

Bacillus anthracis Gateway® Clone Set, Recombinant in *Escherichia coli*, Plates 1- 58

Catalog No. NR-19272

Table 1: *Bacillus anthracis* Gateway® Clone, Plate 1 (QMG002842), NR-19272¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47919	A02	BA0817	hypothetical protein	Chromosome (NC_003997)	NP_843335.1	240937
49995	A03	BA2712	hypothetical protein	Chromosome (NC_003997)	NP_845066.1	240946
50113	A04	BA5068	DNA-binding response regulator	Chromosome (NC_003997)	NP_847259.1	240954
48359	A05	BA2710	hypothetical protein	Chromosome (NC_003997)	NP_845064.1	240963
48674	A06	BA5071	hypothetical protein	Chromosome (NC_003997)	NP_847262.1	240973
51297	A07	BA5040	hypothetical protein	Chromosome (NC_003997)	NP_847232.1	240982
49027	A08	BA5078	hypothetical protein	Chromosome (NC_003997)	NP_847268.1	240990
49267	A09	BA2699	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845055.1	241000
49441	A10	BA0842	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_843358.1	241012
47815	A11	BA2875	hypothetical protein	Chromosome (NC_003997)	NP_845216.1	239652
48082	A12	BA0987	hypothetical protein	Chromosome (NC_003997)	NP_843488.1	239664
47630	B01	BA2714	hypothetical protein	Chromosome (NC_003997)	NP_845068.1	240927
49668	B02	BA0834	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_843351.1	240938
48130	B03	BA2704	hypothetical protein	Chromosome (NC_003997)	NP_845059.1	240947
50167	B04	BA0856	amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_843369.1	240956
50607	B05	BA0847	glutamate racemase	Chromosome (NC_003997)	NP_843363.1	240964
51074	B06	BA5077	hypothetical protein	Chromosome (NC_003997)	NP_847267.1	240974
48873	B07	BA2705	endo/excinuclease amino terminal domain protein	Chromosome (NC_003997)	NP_845060.1	240983
51565	B08	BA0835	multidrug resistance protein	Chromosome (NC_003997)	NP_843352.1	240991
51826	B09	BA0823	PTS system, sucrose-specific IIBC component	Chromosome (NC_003997)	NP_843341.1	241001
49465	B10	BA2700	hypothetical protein	Chromosome (NC_003997)	NP_845056.1	241014
49811	B11	BA0983	hypothetical protein	Chromosome (NC_003997)	NP_843484.1	239653
50173	B12	BA2878	hypothetical protein	Chromosome (NC_003997)	NP_845219.1	239665
49533	C01	BA5042	hypothetical protein	Chromosome (NC_003997)	NP_847233.1	240928
47971	C02	BA5080	hypothetical protein	Chromosome (NC_003997)	NP_847270.1	240939
50024	C03	BA5061	hypothetical protein	Chromosome (NC_003997)	NP_847252.1	240948
48262	C04	BA5052	spore germination protein GerPF-like protein	Chromosome (NC_003997)	NP_847243.1	240957
48589	C05	BA0820	hypothetical protein	Chromosome (NC_003997)	NP_843338.1	240965
51166	C06	BA5079	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_847269.1	240976
51325	C07	BA0848	hypothetical protein	Chromosome (NC_003997)	NP_843364.1	240984
49109	C08	BA2713	mutT/nudix family protein	Chromosome (NC_003997)	NP_845067.1	240992
49297	C09	BA5043	mutT/nudix family protein	Chromosome (NC_003997)	NP_847234.1	241002
49482	C10	BA2701	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845057.1	241016
47997	C11	BA1007	hypothetical protein	Chromosome (NC_003997)	NP_843508.1	239656
48201	C12	BA1002	hypothetical protein	Chromosome (NC_003997)	NP_843503.1	239666
49565	D01	BA0838	NAD(P)H dehydrogenase, quinone family	Chromosome (NC_003997)	NP_843354.1	240930
49696	D02	BA5062	lipoprotein, putative	Chromosome (NC_003997)	NP_847253.1	240940

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48167	D03	BA5072	hypothetical protein	Chromosome (NC_003997)	NP_847263.1	240949
50263	D04	BA0857	amino acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843370.1	240958
50709	D05	BA0821	transcriptional regulator, RpiR family, putative	Chromosome (NC_003997)	NP_843339.1	240966
48721	D06	BA0832	sugE protein, putative	Chromosome (NC_003997)	NP_843349.1	240977
48958	D07	BA0827	hypothetical protein	Chromosome (NC_003997)	NP_843344.1	240985
51577	D08	BA1467	flavo-hemoprotein	Chromosome (NC_003997)	NP_843922.1	240993
51829	D09	BA0845	amino acid permease family protein	Chromosome (NC_003997)	NP_843362.1	241003
49527	D10	BA0837	lipoprotein, putative	Chromosome (NC_003997)	NP_843353.1	241018
49909	D11	BA5193	transcriptional regulator, DeoR family	Chromosome (NC_003997)	NP_847376.1	239657
50186	D12	BA2879	hypothetical protein	Chromosome (NC_003997)	NP_845220.1	239667
47846	E01	BA3851	hypothetical protein	Chromosome (NC_003997)	NP_846101.1	240931
49774	E02	BA5069	LPXTG-site transpeptidase family protein	Chromosome (NC_003997)	NP_847260.1	240942
50032	E03	BA5066	hypothetical protein	Chromosome (NC_003997)	NP_847257.1	240950
48274	E04	BA5048	conserved hypothetical protein TIGR00278	Chromosome (NC_003997)	NP_847239.1	240959
48590	E05	BA0833	sugE protein, putative	Chromosome (NC_003997)	NP_843350.1	240967
51216	E06	BA5051	cytochrome d ubiquinol oxidase, subunit II	Chromosome (NC_003997)	NP_847242.1	240978
51380	E07	BA2715	oxidoreductase, DadA family	Chromosome (NC_003997)	NP_845069.1	240986
49164	E08	BA5070	cell wall surface anchor family protein	Chromosome (NC_003997)	NP_847261.1	240994
49311	E09	BA2707	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845061.1	241004
47786	E10	BA0998	hypothetical protein	Chromosome (NC_003997)	NP_843499.1	239648
49944	E11	BA2883	lipoprotein, putative	Chromosome (NC_003997)	NP_845224.1	239659
48254	E12	BA5236	hypothetical protein	Chromosome (NC_003997)	NP_847415.1	239668
47858	F01	BA0816	hypothetical protein	Chromosome (NC_003997)	NP_843334.1	240933
48110	F02	BA0858	small acid-soluble spore protein	Chromosome (NC_003997)	NP_843371.1	240943
48197	F03	BA5057	hypothetical protein	Chromosome (NC_003997)	NP_847248.1	240951
50508	F04	BA0855	amino acid ABC transporter, amino acid-binding protein	Chromosome (NC_003997)	NP_843368.1	240960
48611	F05	BA5044	hypothetical protein	Chromosome (NC_003997)	NP_847235.1	240969
48741	F06	BA5081	hypothetical protein	Chromosome (NC_003997)	NP_847271.1	240979
48979	F07	BA5060	hypothetical protein	Chromosome (NC_003997)	NP_847251.1	240987
51639	F08	BA0840	major facilitator family transporter	Chromosome (NC_003997)	NP_843356.1	240995
49319	F09	BA0828	hypothetical protein	Chromosome (NC_003997)	NP_843345.1	241006
49778	F10	BA1009	hypothetical protein	Chromosome (NC_003997)	NP_843510.1	239649
48061	F11	BA5235	hypothetical protein	Chromosome (NC_003997)	NP_847414.1	239660
50261	F12	BA5207	hypothetical protein	Chromosome (NC_003997)	NP_847390.1	239669
49634	G01	BA5049	carbonic anhydrase, prokaryotic type, putative	Chromosome (NC_003997)	NP_847240.1	240934
49976	G02	BA2716	hypothetical protein	Chromosome (NC_003997)	NP_845070.1	240944
50085	G03	BA5076	hypothetical protein	Chromosome (NC_003997)	NP_847266.1	240952
48285	G04	BA2711	hypothetical protein	Chromosome (NC_003997)	NP_845065.1	240961
48653	G05	BA2696	hypothetical protein	Chromosome (NC_003997)	NP_845053.1	240971
51284	G06	BA0824	hypothetical protein	Chromosome (NC_003997)	NP_843342.1	240980
51405	G07	BA0819	germination protein gerN	Chromosome (NC_003997)	NP_843337.1	240988

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49273	G08	BA5047	autoinducer-2 production protein LuxS	Chromosome (NC_003997)	NP_847238.1	240998
49352	G09	BA0830	transcriptional regulator, AsnC family	Chromosome (NC_003997)	NP_843347.1	241008
47795	G10	BA1005	hypothetical protein	Chromosome (NC_003997)	NP_843506.1	239650
49961	G11	BA5238	PAP2 family protein	Chromosome (NC_003997)	NP_847417.1	239661
48280	G12	BA0984	hypothetical protein	Chromosome (NC_003997)	NP_843485.1	239670
49660	H01	BA2708	membrane protein, putative	Chromosome (NC_003997)	NP_845062.1	240936
48109	H02	BA0841	hypothetical protein	Chromosome (NC_003997)	NP_843357.1	240945
48244	H03	BA5065	FeoA family protein	Chromosome (NC_003997)	NP_847256.1	240953
50568	H04	BA5058	lipoprotein, putative	Chromosome (NC_003997)	NP_847249.1	240962
50863	H05	BA0829	transporter, EamA family	Chromosome (NC_003997)	NP_843346.1	240972
48866	H06	BA2698	hypothetical protein	Chromosome (NC_003997)	NP_845054.1	240981
48965	H07	BA0825	hypothetical protein	Chromosome (NC_003997)	NP_843343.1	240989
51804	H08	BA5050	cytochrome d ubiquinol oxidase, subunit I	Chromosome (NC_003997)	NP_847241.1	240999
49403	H09	BA5059	hypothetical protein	Chromosome (NC_003997)	NP_847250.1	241010
49799	H10	BA5202	hypothetical protein	Chromosome (NC_003997)	NP_847385.1	239651
50025	H11	BA5221	ABC transporter, permease protein	Chromosome (NC_003997)	NP_847402.1	239663

Table 2: *Bacillus anthracis* Gateway® Clone, Plate 2 (QMG002843), NR-19726¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50383	A02	BA2858	hypothetical protein	Chromosome (NC_003997)	NP_845200.1	239679
48658	A03	BA5211	transcriptional regulator, PadR family	Chromosome (NC_003997)	NP_847393.1	239688
48908	A04	BA0986	hypothetical protein	Chromosome (NC_003997)	NP_843487.1	239698
51212	A05	BA5222	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847403.1	239707
49300	A06	BA5204	hypothetical protein	Chromosome (NC_003997)	NP_847387.1	239718
49491	A07	BA0999	hypothetical protein	Chromosome (NC_003997)	NP_843500.1	239726
50557	A08	BA3577	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_845847.1	242753
50688	A09	BA1167	hypothetical protein	Chromosome (NC_003997)	NP_843646.1	242761
50799	A10	BA3057	transcriptional regulator, AraC family	Chromosome (NC_003997)	NP_845387.1	242771
48739	A11	BA3573	hypothetical protein	Chromosome (NC_003997)	NP_845843.1	242780
50977	A12	BA3056	hypothetical protein	Chromosome (NC_003997)	NP_845386.1	242789
48297	B01	BA2887	hypothetical protein	Chromosome (NC_003997)	NP_845227.1	239672
48449	B02	BA2859	hypothetical protein	Chromosome (NC_003997)	NP_845201.1	239680
50704	B03	BA2872	degV family protein	Chromosome (NC_003997)	NP_845213.1	239689
51089	B04	BA5206	peptidase, M23/M37 family	Chromosome (NC_003997)	NP_847389.1	239699
49117	B05	BA5197	hypothetical protein	Chromosome (NC_003997)	NP_847380.1	239708
51620	B06	BA1008	DNA repair exonuclease family protein	Chromosome (NC_003997)	NP_843509.1	239719
51869	B07	BA5213	hypothetical protein	Chromosome (NC_003997)	NP_847395.1	239727
47796	B08	BA1173	hypothetical protein	Chromosome (NC_003997)	NP_843652.1	242754
50692	B09	BA1169	protein export protein prsA	Chromosome (NC_003997)	NP_843648.1	242763
48406	B10	BA1168	hypothetical protein	Chromosome (NC_003997)	NP_843647.1	242772

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50917	B11	BA1192	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_843668.1	242781
49192	B12	BA3538	hypothetical protein	Chromosome (NC_003997)	NP_845815.1	242790
50331	C01	BA2868	glycosyl transferase, WecB/TagA/CpsF family	Chromosome (NC_003997)	NP_845209.1	239673
50436	C02	BA2890	methlytransferase, UbiE/COQ5 family	Chromosome (NC_003997)	NP_845230.1	239681
48657	C03	BA5210	hypothetical protein	Chromosome (NC_003997)	NP_847392.1	239690
48973	C04	BA2886	hypothetical protein	Chromosome (NC_003997)	NP_845226.1	239700
51519	C05	BA2869	peptidase, putative	Chromosome (NC_003997)	NP_845210.2	239709
49299	C06	BA5190	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_847373.1	239720
49523	C07	BA5212	hypothetical protein	Chromosome (NC_003997)	NP_847394.1	239728
50592	C08	BA3069	hypothetical protein	Chromosome (NC_003997)	NP_845399.1	242755
48040	C09	BA3570	hypothetical protein	Chromosome (NC_003997)	NP_845840.1	242764
50812	C10	BA3543	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_845819.1	242773
50926	C11	BA1184	3-oxoacyl-(acyl-carrier-protein) synthase III	Chromosome (NC_003997)	NP_843661.1	242783
49235	C12	BA3512	membrane protein, putative	Chromosome (NC_003997)	NP_845792.1	242792
48334	D01	BA0988	hypothetical protein	Chromosome (NC_003997)	NP_843489.1	239674
50468	D02	BA5217	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847399.1	239682
50823	D03	BA5205	lipoic acid synthetase	Chromosome (NC_003997)	NP_847388.1	239691
51115	D04	BA1004	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_843505.1	239701
49135	D05	BA5194	hypothetical protein	Chromosome (NC_003997)	NP_847377.1	239710
51715	D06	BA5216	hypothetical protein	Chromosome (NC_003997)	NP_847398.1	239721
49596	D07	BA5203	phosphoglycerate mutase family protein, putative	Chromosome (NC_003997)	NP_847386.1	239730
47920	D08	BA1170	hypothetical protein	Chromosome (NC_003997)	NP_843649.1	242756
50693	D09	BA1171	membrane protein, putative	Chromosome (NC_003997)	NP_843650.1	242765
48593	D10	BA3064	hypothetical protein	Chromosome (NC_003997)	NP_845394.1	242774
48952	D11	BA3576	hypothetical protein	Chromosome (NC_003997)	NP_845846.1	242784
51031	D12	BA3544	quinone oxidoreductase	Chromosome (NC_003997)	NP_845820.1	242793
50341	E01	BA2865	hypothetical protein	Chromosome (NC_003997)	NP_845206.1	239675
48550	E02	BA1003	hypothetical protein	Chromosome (NC_003997)	NP_843504.1	239683
50989	E03	BA5240	L-lactate dehydrogenase	Chromosome (NC_003997)	NP_847419.1	239693
51127	E04	BA2867	hypothetical protein	Chromosome (NC_003997)	NP_845208.1	239703
51412	E05	BA1010	transposase, IS605 family	Chromosome (NC_003997)	NP_843511.1	239711
49475	E06	BA2863	hypothetical protein	Chromosome (NC_003997)	NP_845204.1	239722
49683	E07	BA5199	lipoprotein, putative	Chromosome (NC_003997)	NP_847382.1	239732
50656	E08	BA1181	UDP-glucose 4-epimerase-like protein	Chromosome (NC_003997)	NP_843658.1	242757
48065	E09	BA1172	hypothetical protein	Chromosome (NC_003997)	NP_843651.1	242766
50869	E10	BA3061	transporter, EamA family	Chromosome (NC_003997)	NP_845391.1	242775
50938	E11	BA1195	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843671.1	242785
49241	E12	BA3060	mutT/nudix family protein	Chromosome (NC_003997)	NP_845390.1	242794
48401	F01	BA5196	hypothetical protein	Chromosome (NC_003997)	NP_847379.1	239676
50537	F02	BA5219	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_847400.1	239684
48767	F03	BA2870	hypothetical protein	Chromosome (NC_003997)	NP_845211.1	239694

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49084	F04	BA5214	nifU domain protein	Chromosome (NC_003997)	NP_847396.1	239704
51435	F05	BA0994	response regulator	Chromosome (NC_003997)	NP_843495.1	239713
51837	F06	BA2861	sensor histidine kinase SrrB, putative	Chromosome (NC_003997)	NP_845203.1	239723
49713	F07	BA5191	NAD(P)H dehydrogenase, quinone family	Chromosome (NC_003997)	NP_847374.1	239734
47945	F08	BA1182	hypothetical protein	Chromosome (NC_003997)	NP_843659.1	242758
50747	F09	BA3065	hypothetical protein	Chromosome (NC_003997)	NP_845395.1	242767
48640	F10	BA3589	hypothetical protein	Chromosome (NC_003997)	NP_845859.1	242776
48990	F11	BA3059	hypothetical protein	Chromosome (NC_003997)	NP_845389.1	242786
51043	F12	BA3574	bile acid transporter family protein	Chromosome (NC_003997)	NP_845844.1	242795
50390	G01	BA5192	phosphatase,haloacid dehalogenase family	Chromosome (NC_003997)	NP_847375.1	239677
48578	G02	BA1001	hypothetical protein	Chromosome (NC_003997)	NP_843502.1	239685
51030	G03	BA2888	inosine-uridine preferring nucleoside hydrolase family protein	Chromosome (NC_003997)	NP_845228.1	239695
51173	G04	BA5239	hypothetical protein	Chromosome (NC_003997)	NP_847418.1	239705
49217	G05	BA0985	lipoprotein, putative	Chromosome (NC_003997)	NP_843486.1	239714
49503	G06	BA5237	lipoprotein, putative	Chromosome (NC_003997)	NP_847416.1	239724
50543	G07	BA1174	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_843653.1	242751
50679	G08	BA3557	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_845830.1	242759
48204	G09	BA1161	hypothetical protein	Chromosome (NC_003997)	NP_843642.1	242768
50871	G10	BA3588	lipoprotein, putative	Chromosome (NC_003997)	NP_845858.1	242777
50967	G11	BA3560	glycerophosphoryl diester phosphodiesterase, putative	Chromosome (NC_003997)	NP_845833.1	242787
49252	G12	BA3058	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845388.1	242796
48405	H01	BA0997	hypothetical protein	Chromosome (NC_003997)	NP_843498.1	239678
50561	H02	BA5220	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_847401.1	239686
51052	H03	BA5195	fructose-1,6-bisphosphatase, class II	Chromosome (NC_003997)	NP_847378.1	239697
49079	H04	BA2873	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845214.1	239706
51617	H05	BA2882	major facilitator family transporter	Chromosome (NC_003997)	NP_845223.1	239717
51846	H06	BA2866	MTA/SAH nucleosidase/ phosphatase, putative	Chromosome (NC_003997)	NP_845207.1	239725
47691	H07	BA3579	hypothetical protein	Chromosome (NC_003997)	NP_845849.1	242752
47962	H08	BA1175	hypothetical protein	Chromosome (NC_003997)	NP_843654.1	242760
48248	H09	BA3555	hypothetical protein	Chromosome (NC_003997)	NP_845828.1	242770
50921	H10	BA3587	glyoxalase family protein	Chromosome (NC_003997)	NP_845857.1	242779
49125	H11	BA3063	yail/yqxD family protein	Chromosome (NC_003997)	NP_845393.1	242788

Table 3: *Bacillus anthracis* Gateway® Clone, Plate 3 (QMG002844), NR-19272¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX CloneID
49413	A02	BA3558	hypothetical protein	Chromosome (NC_003997)	NP_845831.1	242806

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51614	A03	BA1185	3-oxoacyl-(acyl-carrier-protein) synthase II	Chromosome (NC_003997)	NP_843662.1	242817
51933	A04	BA3062	transcriptional regulator, GntR family/aminotransferase, class	Chromosome (NC_003997)	NP_845392.1	242827
47620	A05	BA0212	hypothetical protein	Chromosome (NC_003997)	NP_842772.1	247406
47697	A06	BA0221	hypothetical protein	Chromosome (NC_003997)	NP_842778.1	247416
48241	A07	BA4453	hypothetical protein	Chromosome (NC_003997)	NP_846681.1	247428
48301	A08	BA0229	hypothetical protein	Chromosome (NC_003997)	NP_842785.1	247436
51016	A09	BA0248	UV-endonuclease, putative	Chromosome (NC_003997)	NP_842801.1	247445
51223	A10	BA4465	comG operon protein 2	Chromosome (NC_003997)	NP_846691.1	247455
51388	A11	BA0240	4-hydroxyphenylpyruvate dioxygenase	Chromosome (NC_003997)	NP_842794.1	247464
49195	A12	BA4463	comG operon protein 4	Chromosome (NC_003997)	NP_846689.1	247472
49278	B01	BA3540	hypothetical protein	Chromosome (NC_003997)	NP_845817.1	242798
51175	B02	BA1193	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_843669.1	242807
49784	B03	BA3571	protease synthase and sporulation negative regulatory protein PA	Chromosome (NC_003997)	NP_845841.1	242818
50068	B04	BA3585	mgtC family protein	Chromosome (NC_003997)	NP_845855.1	242828
50291	B05	BA3989	3-oxoacyl-(acyl-carrier-protein) reductase	Chromosome (NC_003997)	NP_846231.1	247407
47723	B06	BA0230	hypothetical protein	Chromosome (NC_003997)	NP_842786.1	247418
50718	B07	BA1606	5'-3' exonuclease family protein	Chromosome (NC_003997)	NP_844054.1	247429
50901	B08	BA0233	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_842789.1	247437
48531	B09	BA4464	comG operon protein 3	Chromosome (NC_003997)	NP_846690.1	247446
48756	B10	BA0219	hypothetical protein	Chromosome (NC_003997)	NP_842777.1	247456
48993	B11	BA4471	hypothetical protein	Chromosome (NC_003997)	NP_846696.1	247465
51701	B12	BA4027	dihydroorotase	Chromosome (NC_003997)	NP_846268.1	247473
51100	C01	BA1188	tryptophanyl-tRNA synthetase	Chromosome (NC_003997)	NP_843665.1	242799
51243	C02	BA1194	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843670.1	242809
51680	C03	BA1132	isocitrate lyase	Chromosome (NC_003997)	NP_843617.1	242819
50067	C04	BA3559	hypothetical protein	Chromosome (NC_003997)	NP_845832.1	242830
47637	C05	BA0281	hypothetical protein	Chromosome (NC_003997)	NP_842832.1	247408
50503	C06	BA4451	hypothetical protein	Chromosome (NC_003997)	NP_846679.1	247419
48237	C07	BA3981	KH domain protein	Chromosome (NC_003997)	NP_846223.1	247430
48352	C08	BA4019	hypothetical protein	Chromosome (NC_003997)	NP_846261.1	247438
51062	C09	BA0216	sugar-binding transcriptional regulator, LacI family	Chromosome (NC_003997)	NP_842774.1	247447
51249	C10	BA4466	comG operon protein 1	Chromosome (NC_003997)	NP_846692.1	247457
51450	C11	BA1602	hypothetical protein	Chromosome (NC_003997)	NP_844051.1	247466
49363	C12	BA4457	shikimate kinase	Chromosome (NC_003997)	NP_846684.1	247474
49341	D01	BA1166	hypothetical protein	Chromosome (NC_003997)	NP_843645.1	242800
49455	D02	BA3586	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845856.1	242810
49891	D03	BA3550	hypothetical protein	Chromosome (NC_003997)	NP_845824.1	242820
50158	D04	BA3545	phosphoglycerate mutase, putative	Chromosome (NC_003997)	NP_845821.1	242832
47672	D05	BA0238	hypothetical protein	Chromosome (NC_003997)	NP_842792.1	247410
47797	D06	BA1607	hypothetical protein	Chromosome (NC_003997)	NP_844055.1	247422

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50749	D07	BA4444	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846672.1	247431
50922	D08	BA4023	dihydroorotate dehydrogenase	Chromosome (NC_003997)	NP_846264.1	247439
48579	D09	BA1601	lipoprotein, putative	Chromosome (NC_003997)	NP_844050.1	247448
48813	D10	BA4501	hypothetical protein	Chromosome (NC_003997)	NP_846726.1	247458
49009	D11	BA4503	transcriptional regulator, Fur family	Chromosome (NC_003997)	NP_846728.1	247467
51797	D12	BA4448	glycine cleavage system P-protein, subunit 1	Chromosome (NC_003997)	NP_846676.1	247475
51108	E01	BA3068	hypothetical protein	Chromosome (NC_003997)	NP_845398.1	242801
51415	E02	BA3581	degT/dnrJ/eryC1/strS family protein	Chromosome (NC_003997)	NP_845851.1	242811
51725	E03	BA1162	alpha-amylase family protein	Chromosome (NC_003997)	NP_843643.1	242821
50265	E04	BA1180	hypothetical protein	Chromosome (NC_003997)	NP_843657.1	242834
50376	E05	BA0222	deoxyribonuclease, TatD family, putative	Chromosome (NC_003997)	NP_842779.1	247411
50625	E06	BA4504	cation ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_846729.1	247423
48259	E07	BA3988	acyl carrier protein	Chromosome (NC_003997)	NP_846230.1	247432
48426	E08	BA3982	ribosomal protein S16	Chromosome (NC_003997)	NP_846224.1	247440
51077	E09	BA0234	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842790.1	247449
51339	E10	BA4026	carbamoyl-phosphate synthase, small subunit	Chromosome (NC_003997)	NP_846267.1	247459
49024	E11	BA4461	comG operon protein 6, putative	Chromosome (NC_003997)	NP_846687.1	247468
49446	E12	BA3980	16S rRNA processing protein RimM	Chromosome (NC_003997)	NP_846222.1	247476
49348	F01	BA3539	hypothetical protein	Chromosome (NC_003997)	NP_845816.1	242802
49476	F02	BA3546	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845822.1	242812
49978	F03	BA3563	membrane protein, putative	Chromosome (NC_003997)	NP_845835.1	242822
50472	F04	BA1133	trifolitoxin immunity domain protein	Chromosome (NC_003997)	NP_843618.1	242840
47684	F05	BA0243	hypothetical protein	Chromosome (NC_003997)	NP_842797.1	247412
50619	F06	BA1599	rhodanese-like domain protein	Chromosome (NC_003997)	NP_844048.1	247425
50769	F07	BA4506	membrane protein, putative	Chromosome (NC_003997)	NP_846731.1	247433
48417	F08	BA1598	hypothetical protein	Chromosome (NC_003997)	NP_844047.1	247442
51106	F09	BA3985	signal recognition particle-docking protein FtsY	Chromosome (NC_003997)	NP_846227.1	247451
51345	F10	BA4449	glycine cleavage system T protein	Chromosome (NC_003997)	NP_846677.1	247460
51667	F11	BA0244	major facilitator family transporter	Chromosome (NC_003997)	NP_842798.1	247469
49506	F12	BA0224	invasion protein lagB domain protein	Chromosome (NC_003997)	NP_842781.1	247478
51129	G01	BA3566	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_845838.1	242803
51423	G02	BA3554	penicillin-binding protein, putative	Chromosome (NC_003997)	NP_845827.1	242813
51795	G03	BA3578	methyltransferase, putative	Chromosome (NC_003997)	NP_845848.1	242823
50489	G04	BA3583	enoyl-CoA hydratase/isomerase family protein	Chromosome (NC_003997)	NP_845853.1	242842

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47683	G05	BA0239	hypothetical protein	Chromosome (NC_003997)	NP_842793.1	247414
48120	G06	BA4446	hypothetical protein	Chromosome (NC_003997)	NP_846674.1	247426
48299	G07	BA4468	hypothetical protein	Chromosome (NC_003997)	NP_846694.1	247434
51004	G08	BA0241	fumarylacetoacetate hydrolase family protein	Chromosome (NC_003997)	NP_842795.1	247443
48647	G09	BA0217	hypothetical protein	Chromosome (NC_003997)	NP_842775.1	247452
48856	G10	BA4445	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_846673.1	247461
49167	G11	BA1600	hypothetical protein	Chromosome (NC_003997)	NP_844049.1	247470
51834	G12	BA0246	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate--D-ala	Chromosome (NC_003997)	NP_842799.1	247479
49354	H01	BA3562	hypothetical protein	Chromosome (NC_003997)	NP_845834.1	242804
49642	H02	BA3580	O-acetyltransferase, putative	Chromosome (NC_003997)	NP_845850.1	242816
50044	H03	BA3067	DNA-binding response regulator	Chromosome (NC_003997)	NP_845397.1	242826
50279	H04	BA3987	ribonuclease III	Chromosome (NC_003997)	NP_846229.1	247405
50447	H05	BA4024	dihydroorotate dehydrogenase, electron transfer subunit	Chromosome (NC_003997)	NP_846265.1	247415
50632	H06	BA0218	yitT family protein	Chromosome (NC_003997)	NP_842776.1	247427
50882	H07	BA4028	aspartate carbamoyltransferase	Chromosome (NC_003997)	NP_846269.1	247435
48506	H08	BA4462	hypothetical protein	Chromosome (NC_003997)	NP_846688.1	247444
51161	H09	BA0235	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842791.1	247453
48899	H10	BA1603	hypothetical protein	Chromosome (NC_003997)	NP_844052.1	247463
51694	H11	BA4029	uracil permease	Chromosome (NC_003997)	NP_846270.1	247471

Table 4: *Bacillus anthracis* Gateway® Clone, Plate 4 (QMG002845), NR-19272¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49956	A02	BA3090	pyrrolidone-carboxylate peptidase	Chromosome (NC_003997)	NP_845417.1	242658
50064	A03	BA3100	copper homeostasis protein CutC, putative	Chromosome (NC_003997)	NP_845427.1	242668
50246	A04	BA3089	transcriptional regulator, Sir2 family	Chromosome (NC_003997)	NP_845416.3	242678
48713	A05	BA3599	hypothetical protein	Chromosome (NC_003997)	NP_845869.1	242689
48930	A06	BA1200	hypothetical protein	Chromosome (NC_003997)	NP_843675.1	242699
49145	A07	BA3596	flavodoxin	Chromosome (NC_003997)	NP_845866.1	242709
51317	A08	BA3054	ABC transporter, permease protein	Chromosome (NC_003997)	NP_845384.1	242721
51624	A09	BA1205	hypothetical protein	Chromosome (NC_003997)	NP_843680.1	242731
49870	A10	BA3124	membrane protein, putative	Chromosome (NC_003997)	NP_845448.1	242742
47765	A11	BA4835	hypothetical protein	Chromosome (NC_003997)	NP_847038.1	245808
50542	A12	BA0573	hypothetical protein	Chromosome (NC_003997)	NP_843107.1	245816
49801	B01	BA0213	1-acyl-sn-glycerol-3-phosphate acyltransferase, putative	Chromosome (NC_003997)	NP_842773.1	247482
47631	B02	BA3050	hypothetical protein	Chromosome (NC_003997)	NP_845380.1	242659
47925	B03	BA3083	lipoprotein, putative	Chromosome (NC_003997)	NP_845412.1	242669
50305	B04	BA3071	phosphatase family protein	Chromosome (NC_003997)	NP_845401.1	242680
50405	B05	BA3078	hypothetical protein	Chromosome (NC_003997)	NP_845408.1	242690

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48938	B06	BA3598	mutT/nudix family protein	Chromosome (NC_003997)	NP_845868.1	242701
49221	B07	BA3075	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845405.1	242711
49430	B08	BA3112	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845437.1	242722
49707	B09	BA3088	hypothetical protein	Chromosome (NC_003997)	NP_845415.1	242732
49902	B10	BA3106	hypothetical protein	Chromosome (NC_003997)	NP_845432.1	242744
50403	B11	BA2482	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844857.1	245809
47960	B12	BA0613	hypothetical protein	Chromosome (NC_003997)	NP_843144.3	245817
49905	C01	BA4455	membrane protein, putative	Chromosome (NC_003997)	NP_846682.1	247484
50089	C02	BA1203	negative regulator of competence MecA	Chromosome (NC_003997)	NP_843678.2	242660
47932	C03	BA1207	hypothetical protein	Chromosome (NC_003997)	NP_843682.1	242671
50332	C04	BA3098	transcriptional regulator, lclR family	Chromosome (NC_003997)	NP_845425.1	242682
48780	C05	BA1211	hypothetical protein	Chromosome (NC_003997)	NP_843686.1	242691
50765	C06	BA3111	aminoglycoside phosphotransferase family protein	Chromosome (NC_003997)	NP_845436.1	242702
49240	C07	BA3044	mutT/nudix family protein	Chromosome (NC_003997)	NP_845375.1	242712
49467	C08	BA3086	Signal peptidase I	Chromosome (NC_003997)	NP_845414.1	242724
51658	C09	BA3053	ABC transporter, permease protein	Chromosome (NC_003997)	NP_845383.1	242733
49945	C10	BA3043	hypothetical protein	Chromosome (NC_003997)	NP_845374.1	242748
50458	C11	BA2485	hypothetical protein	Chromosome (NC_003997)	NP_844860.1	245810
50577	C12	BA0568	glycerol-3-phosphate ABC transporter, permease protein, putativ	Chromosome (NC_003997)	NP_843102.1	245818
49903	D01	BA4021	orotate phosphoribosyltransferase	Chromosome (NC_003997)	NP_846262.1	247486
50043	D02	BA3052	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845382.1	242662
50157	D03	BA3094	membrane protein, putative	Chromosome (NC_003997)	NP_845421.1	242672
48503	D04	BA3046	hypothetical protein	Chromosome (NC_003997)	NP_845376.1	242683
50478	D05	BA3147	hypothetical protein	Chromosome (NC_003997)	NP_845468.1	242692
48944	D06	BA1209	protozoan/cyanobacterial globin family protein	Chromosome (NC_003997)	NP_843684.1	242703
51021	D07	BA3096	urea amidolyase-related protein	Chromosome (NC_003997)	NP_845423.1	242713
49580	D08	BA3099	Signal peptidase I U	Chromosome (NC_003997)	NP_845426.1	242726
49735	D09	BA3108	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845433.1	242734
47678	D10	BA2470	hypothetical protein	Chromosome (NC_003997)	NP_844846.1	245802
47778	D11	BA4801	hypothetical protein	Chromosome (NC_003997)	NP_847004.1	245811
48102	D12	BA4818	ribosomal protein L35	Chromosome (NC_003997)	NP_847021.1	245819
50126	E01	BA4467	hypothetical protein	Chromosome (NC_003997)	NP_846693.1	247490
47772	E02	BA3151	hypothetical protein	Chromosome (NC_003997)	NP_845470.1	242663
48058	E03	BA3082	hypothetical protein	Chromosome (NC_003997)	NP_845411.1	242673
50354	E04	BA3123	hypothetical protein	Chromosome (NC_003997)	NP_845447.1	242684
50512	E05	BA3073	hypothetical protein	Chromosome (NC_003997)	NP_845403.1	242694
50801	E06	BA3595	BNR repeat domain protein	Chromosome (NC_003997)	NP_845865.1	242704
49253	E07	BA3104	hypothetical protein	Chromosome (NC_003997)	NP_845430.1	242714
51447	E08	BA3105	acyl-CoA dehydrogenase, short-chain specific, putative	Chromosome (NC_003997)	NP_845431.1	242727

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49842	E09	BA3115	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845440.1	242736
50275	E10	BA2488	phosphoglycerate mutase	Chromosome (NC_003997)	NP_844863.1	245803
50487	E11	BA2473	hypothetical protein	Chromosome (NC_003997)	NP_844849.1	245812
50614	E12	BA4830	formamidopyrimidine-DNA glycosylase	Chromosome (NC_003997)	NP_847033.1	245820
50209	F01	BA4022	orotidine 5'-phosphate decarboxylase	Chromosome (NC_003997)	NP_846263.1	247492
50045	F02	BA3070	hypothetical protein	Chromosome (NC_003997)	NP_845400.1	242664
48090	F03	BA3594	cold shock protein CspB	Chromosome (NC_003997)	NP_845864.1	242675
50365	F04	BA3095	hypothetical protein	Chromosome (NC_003997)	NP_845422.1	242686
50623	F05	BA3119	membrane protein, putative	Chromosome (NC_003997)	NP_845443.1	242696
49070	F06	BA3041	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_845372.1	242705
49291	F07	BA3121	spore coat protein F	Chromosome (NC_003997)	NP_845445.1	242716
49606	F08	BA3600	acetyltransferase, CYSE/LACA/LPXA/NODL family	Chromosome (NC_003997)	NP_845870.1	242728
49841	F09	BA3047	hypothetical protein	Chromosome (NC_003997)	NP_845377.1	242738
47687	F10	BA2471	hypothetical protein	Chromosome (NC_003997)	NP_844847.1	245804
47879	F11	BA2455	hypothetical protein	Chromosome (NC_003997)	NP_844831.1	245813
48341	F12	BA4800	hypothetical protein	Chromosome (NC_003997)	NP_847003.1	245823
50233	G01	BA1605	cation transporter, putative	Chromosome (NC_003997)	NP_844053.1	247493
47811	G02	BA1198	hypothetical protein	Chromosome (NC_003997)	NP_843674.1	242665
50585	G03	BA3593	exonuclease family protein	Chromosome (NC_003997)	NP_845863.2	242676
48695	G04	BA3092	transposase, IS605 family, OrfA	Chromosome (NC_003997)	NP_845419.1	242687
48912	G05	BA3049	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_845379.1	242697
49112	G06	BA3113	hypothetical protein	Chromosome (NC_003997)	NP_845438.1	242707
49347	G07	BA3079	hypothetical protein	Chromosome (NC_003997)	NP_845409.1	242718
51509	G08	BA3114	membrane protein, putative	Chromosome (NC_003997)	NP_845439.1	242729
51861	G09	BA1196	MATE efflux family protein	Chromosome (NC_003997)	NP_843672.1	242739
47761	G10	BA0598	hypothetical protein	Chromosome (NC_003997)	NP_843131.1	245806
50533	G11	BA0588	formate dehydrogenase accessory protein FdhD	Chromosome (NC_003997)	NP_843122.1	245814
48355	G12	BA4799	hypothetical protein	Chromosome (NC_003997)	NP_847002.1	245825
47614	H01	BA3122	hypothetical protein	Chromosome (NC_003997)	NP_845446.1	242657
47864	H02	BA3126	hypothetical protein	Chromosome (NC_003997)	NP_845449.1	242667
48158	H03	BA3127	small, acid-soluble spore protein, alpha/beta family	Chromosome (NC_003997)	NP_845450.1	242677
50364	H04	BA3081	hypothetical protein	Chromosome (NC_003997)	NP_845410.1	242688
50663	H05	BA3118	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_845442.1	242698
50840	H06	BA3074	membrane protein, putative	Chromosome (NC_003997)	NP_845404.1	242708
49397	H07	BA3120	hypothetical protein	Chromosome (NC_003997)	NP_845444.1	242720
49684	H08	BA1210	hypothetical protein	Chromosome (NC_003997)	NP_843685.1	242730
49853	H09	BA3597	membrane protein, putative	Chromosome (NC_003997)	NP_845867.1	242740
50310	H10	BA0574	hypothetical protein	Chromosome (NC_003997)	NP_843108.1	245807
47942	H11	BA4834	hypothetical protein	Chromosome (NC_003997)	NP_847037.1	245815

Table 5: *Bacillus anthracis* Gateway® Clone, Plate 5 (QMG002846), NR-19729¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX CloneID
51136	A02	BA0605	transcription antiterminator, LytR family	Chromosome (NC_003997)	NP_843137.1	245834
51318	A03	BA4815	peptidase, M42 family	Chromosome (NC_003997)	NP_847018.1	245842
51637	A04	BA0572	sensor histidine kinase	Chromosome (NC_003997)	NP_843106.1	245851
49592	A05	BA2449	hypothetical protein	Chromosome (NC_003997)	NP_844825.1	245861
49796	A06	BA4828	dephospho-CoA kinase	Chromosome (NC_003997)	NP_847031.1	245871
47636	A07	BA0152	hypothetical protein	Chromosome (NC_003997)	NP_842719.1	247745
50540	A08	BA0160	hypothetical protein	Chromosome (NC_003997)	NP_842726.1	247754
48251	A09	BA4403	exodeoxyribonuclease VII, small subunit	Chromosome (NC_003997)	NP_846631.1	247765
50877	A10	BA0168	hypothetical protein	Chromosome (NC_003997)	NP_842733.1	247776
51085	A11	BA4383	3-methyl-2-oxobutanoate dehydrogenase, beta subunit	Chromosome (NC_003997)	NP_846613.1	247786
49171	A12	BA4398	arginine repressor	Chromosome (NC_003997)	NP_846627.1	247796
50867	B01	BA2466	hypothetical protein	Chromosome (NC_003997)	NP_844842.1	245826
48479	B02	BA0612	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_843143.1	245835
48897	B03	BA0607	glyoxylase family protein	Chromosome (NC_003997)	NP_843139.1	245843
49349	B04	BA4816	hypothetical protein	Chromosome (NC_003997)	NP_847019.1	245852
51817	B05	BA0614	proton/peptide symporter family protein	Chromosome (NC_003997)	NP_843145.1	245862
51954	B06	BA0596	nicotinate phosphoribosyltransferase, putative	Chromosome (NC_003997)	NP_843129.1	245872
50374	B07	BA0150	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_842717.1	247746
47994	B08	BA0158	hypothetical protein	Chromosome (NC_003997)	NP_842724.1	247755
50772	B09	BA0140	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842708.1	247766
50905	B10	BA4364	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_846594.1	247778
48992	B11	BA4379	hypothetical protein	Chromosome (NC_003997)	NP_846609.1	247787
51393	B12	BA4368	peptidase T	Chromosome (NC_003997)	NP_846598.1	247797
48370	C01	BA2476	hypothetical protein	Chromosome (NC_003997)	NP_844852.1	245827
51141	C02	BA2469	threonine dehydratase, catabolic	Chromosome (NC_003997)	NP_844845.1	245836
51342	C03	BA2450	hypothetical protein	Chromosome (NC_003997)	NP_844826.1	245844
49383	C04	BA2477	hypothetical protein	Chromosome (NC_003997)	NP_844853.1	245854
49603	C05	BA2448	DNA-binding protein	Chromosome (NC_003997)	NP_844824.1	245863
49846	C06	BA4814	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_847017.1	245873
47693	C07	BA4370	hypothetical protein	Chromosome (NC_003997)	NP_846600.1	247747
50551	C08	BA0175	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_842739.1	247756
50804	C09	BA4402	geranyltranstransferase	Chromosome (NC_003997)	NP_846630.1	247768
48907	C10	BA0136	ribosomal protein S11	Chromosome (NC_003997)	NP_842704.1	247779
51144	C11	BA4384	3-methyl-2-oxobutanoate dehydrogenase, alpha subunit	Chromosome (NC_003997)	NP_846614.1	247788
49340	C12	BA0169	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_842734.1	247798
50944	D01	BA4798	ribonuclease HIII	Chromosome (NC_003997)	NP_847001.1	245828

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48554	D02	BA2452	hypothetical protein	Chromosome (NC_003997)	NP_844828.1	245837
48926	D03	BA4825	S-adenosylmethionine decarboxylase proenzyme	Chromosome (NC_003997)	NP_847028.1	245845
51714	D04	BA4838	isocitrate dehydrogenase, NADP-dependent	Chromosome (NC_003997)	NP_847041.1	245856
49624	D05	BA4819	translation initiation factor IF-3	Chromosome (NC_003997)	NP_847022.1	245865
49907	D06	BA4829	membrane protein, putative	Chromosome (NC_003997)	NP_847032.1	245875
50449	D07	BA4376	amino acid ABC transporter, amino acid-binding protein	Chromosome (NC_003997)	NP_846606.1	247748
48097	D08	BA4367	hypothetical protein	Chromosome (NC_003997)	NP_846597.1	247757
48292	D09	BA4371	hypothetical protein	Chromosome (NC_003997)	NP_846601.1	247769
50960	D10	BA0137	DNA-directed RNA polymerase, alpha subunit	Chromosome (NC_003997)	NP_842705.1	247780
49060	D11	BA4380	mutT/nudix family protein	Chromosome (NC_003997)	NP_846610.1	247789
51492	D12	BA4413	stage III sporulation protein AE	Chromosome (NC_003997)	NP_846641.1	247799
50952	E01	BA4822	primosomal protein Dnal	Chromosome (NC_003997)	NP_847025.1	245830
51215	E02	BA4827	glyceraldehyde 3-phosphate dehydrogenase	Chromosome (NC_003997)	NP_847030.1	245838
51503	E03	BA0606	nucleoside transporter, NupC family	Chromosome (NC_003997)	NP_843138.1	245847
49532	E04	BA4796	cvpA family protein	Chromosome (NC_003997)	NP_846999.1	245857
49652	E05	BA2467	membrane protein, putative	Chromosome (NC_003997)	NP_844843.1	245867
49915	E06	BA2479	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844854.1	245877
47696	E07	BA0134	ribosomal protein L36	Chromosome (NC_003997)	NP_842702.1	247749
50576	E08	BA0155	conserved hypothetical protein TIGR00159	Chromosome (NC_003997)	NP_842721.1	247758
48340	E09	BA4365	hypothetical protein	Chromosome (NC_003997)	NP_846595.1	247771
48925	E10	BA4407	hypothetical protein	Chromosome (NC_003997)	NP_846635.1	247781
51282	E11	BA0147	mrp protein	Chromosome (NC_003997)	NP_842714.1	247791
49355	E12	BA4409	acetyl-CoA carboxylase, biotin carboxyl carrier protein	Chromosome (NC_003997)	NP_846637.1	247800
48412	F01	BA4797	hypothetical protein	Chromosome (NC_003997)	NP_847000.1	245831
48774	F02	BA4817	ribosomal protein L20	Chromosome (NC_003997)	NP_847020.1	245839
49272	F03	BA4836	maoC like domain protein	Chromosome (NC_003997)	NP_847039.1	245848
51747	F04	BA2453	hypothetical protein	Chromosome (NC_003997)	NP_844829.1	245858
51890	F05	BA0593	amino acid permease family protein	Chromosome (NC_003997)	NP_843126.1	245868
49979	F06	BA4813	hypothetical protein	Chromosome (NC_003997)	NP_847016.1	245879
50502	F07	BA4394	stage 0 sporulation protein A	Chromosome (NC_003997)	NP_846624.1	247750
48188	F08	BA0151	hypothetical protein	Chromosome (NC_003997)	NP_842718.1	247761
50831	F09	BA4388	phosphate butyryltransferase	Chromosome (NC_003997)	NP_846618.1	247772
51015	F10	BA0170	hypothetical protein	Chromosome (NC_003997)	NP_842735.1	247782
49097	F11	BA4378	hypothetical protein	Chromosome (NC_003997)	NP_846608.1	247792
49370	F12	BA0183	lipoprotein, putative	Chromosome (NC_003997)	NP_842746.1	247802
50953	G01	BA4837	malate dehydrogenase	Chromosome (NC_003997)	NP_847040.1	245832
51314	G02	BA0608	CBS domain protein	Chromosome (NC_003997)	NP_843140.1	245840
51632	G03	BA2480	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_844855.1	245849
49564	G04	BA0600	membrane protein, putative	Chromosome (NC_003997)	NP_843133.1	245859
49724	G05	BA2447	transporter, LysE family	Chromosome (NC_003997)	NP_844823.1	245869
50166	G06	BA0577	response regulator	Chromosome (NC_003997)	NP_843111.2	245883

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47834	G07	BA4392	hypothetical protein	Chromosome (NC_003997)	NP_846622.1	247751
48187	G08	BA0133	translation initiation factor IF-1	Chromosome (NC_003997)	NP_842701.1	247763
48701	G09	BA0171	lipoprotein, putative	Chromosome (NC_003997)	NP_842736.1	247773
51044	G10	BA4373	hypothetical protein	Chromosome (NC_003997)	NP_846603.1	247784
49103	G11	BA0143	ribosomal protein L13	Chromosome (NC_003997)	NP_842710.1	247794
49390	G12	BA0167	hypothetical protein	Chromosome (NC_003997)	NP_842732.1	247804
48415	H01	BA0603	hypothetical protein	Chromosome (NC_003997)	NP_843135.1	245833
48862	H02	BA0594	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_843127.1	245841
49310	H03	BA2487	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_844862.1	245850
51809	H04	BA2475	ATP-dependent RNA helicase, DEAD/DEAH box family	Chromosome (NC_003997)	NP_844851.1	245860
51921	H05	BA0609	aspartate ammonia-lyase	Chromosome (NC_003997)	NP_843141.1	245870
50106	H06	BA2472	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_844848.1	245885
47875	H07	BA4362	hypothetical protein	Chromosome (NC_003997)	NP_846593.1	247753
50706	H08	BA4405	methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate	Chromosome (NC_003997)	NP_846633.1	247764
50859	H09	BA0176	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_842740.1	247774
48920	H10	BA0144	ribosomal protein S9	Chromosome (NC_003997)	NP_842711.1	247785
51354	H11	BA4386	butyrate kinase	Chromosome (NC_003997)	NP_846616.1	247795

Table 6: *Bacillus anthracis* Gateway® Clone, Plate 6 (QMG002847), NR-19730¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51798	A02	BA0157	phosphoglucosamine mutase	Chromosome (NC_003997)	NP_842723.1	247813
50191	A03	BA0146	germination-specific N-acetylmuramoyl-L-alanine amidase	Chromosome (NC_003997)	NP_842713.1	247828
47703	A04	BA2100	hypothetical protein	Chromosome (NC_003997)	NP_844499.1	244103
50183	A05	BA2143	cbiX domain protein	Chromosome (NC_003997)	NP_844541.1	244112
48224	A06	BA5489	hypothetical protein	Chromosome (NC_003997)	NP_847651.1	244121
51111	A07	BA5505	UDP-glucose 4-epimerase	Chromosome (NC_003997)	NP_847665.1	244131
48881	A08	BA5452	hypothetical protein	Chromosome (NC_003997)	NP_847620.1	244142
49054	A09	BA2101	hypothetical protein	Chromosome (NC_003997)	NP_844500.1	244152
49264	A10	BA2142	siroheme synthase domain protein	Chromosome (NC_003997)	NP_844540.1	244161
49419	A11	BA5499	membrane protein, putative	Chromosome (NC_003997)	NP_847659.1	244173
47748	A12	BA3789	hypothetical protein	Chromosome (NC_003997)	NP_846045.1	241022
51636	B01	BA0181	drug resistance transporter, Bcr/CflA family	Chromosome (NC_003997)	NP_842745.1	247805
49833	B02	BA0148	spore germination protein GerD	Chromosome (NC_003997)	NP_842715.1	247816
50230	B03	BA4374	amino acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846604.1	247830
47702	B04	BA2090	hypothetical protein	Chromosome (NC_003997)	NP_844489.1	244105
48022	B05	BA2096	hypothetical protein	Chromosome (NC_003997)	NP_844495.1	244113

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48258	B06	BA2137	molybdopterin converting factor, subunit 1	Chromosome (NC_003997)	NP_844535.1	244123
48614	B07	BA5466	hypothetical protein	Chromosome (NC_003997)	NP_847633.1	244132
51482	B08	BA2138	nitrate transporter	Chromosome (NC_003997)	NP_844536.1	244143
51579	B09	BA2083	glycosyltransferase, MGT family	Chromosome (NC_003997)	NP_844483.1	244153
51776	B10	BA5441	6-phospho-beta-glucosidase	Chromosome (NC_003997)	NP_847609.1	244162
51920	B11	BA5503	sensor histidine kinase	Chromosome (NC_003997)	NP_847663.1	244174
49837	B12	BA1447	siroheme synthase, putative	Chromosome (NC_003997)	NP_843903.1	241023
49505	C01	BA0179	hypothetical protein	Chromosome (NC_003997)	NP_842743.1	247806
51819	C02	BA4404	exodeoxyribonuclease VII, large subunit	Chromosome (NC_003997)	NP_846632.1	247817
50249	C03	BA4391	glycerophosphoryl diester phosphodiesterase family protein	Chromosome (NC_003997)	NP_846621.1	247832
50111	C04	BA2128	respiratory nitrate reductase, gamma subunit	Chromosome (NC_003997)	NP_844526.1	244106
50195	C05	BA2080	hypothetical protein	Chromosome (NC_003997)	NP_844480.1	244114
48546	C06	BA5449	PTS system, cellobiose-specific IIB component	Chromosome (NC_003997)	NP_847617.1	244124
48633	C07	BA5442	PTS system, cellobiose-specific IIA component	Chromosome (NC_003997)	NP_847610.1	244133
48884	C08	BA2111	glyoxalase family protein	Chromosome (NC_003997)	NP_844509.1	244144
51592	C09	BA5450	proton/glutamate symporter family protein, putative	Chromosome (NC_003997)	NP_847618.1	244155
49323	C10	BA2091	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844490.1	244163
49494	C11	BA2088	hypothetical protein	Chromosome (NC_003997)	NP_844487.1	244175
47812	C12	BA1439	hypothetical protein	Chromosome (NC_003997)	NP_843895.1	241024
49545	D01	BA4369	ribosomal-protein-alanine acetyltransferase, putative	Chromosome (NC_003997)	NP_846599.1	247808
49904	D02	BA4412	stage III sporulation protein AF	Chromosome (NC_003997)	NP_846640.1	247818
50252	D03	BA0161	gluconate operon transcriptional repressor	Chromosome (NC_003997)	NP_842727.1	247834
47908	D04	BA2098	hypothetical protein	Chromosome (NC_003997)	NP_844497.1	244107
48037	D05	BA2097	hypothetical protein	Chromosome (NC_003997)	NP_844496.1	244115
48545	D06	BA5444	PTS system, cellobiose-specific IIB component	Chromosome (NC_003997)	NP_847612.1	244125
48816	D07	BA5468	hypothetical protein	Chromosome (NC_003997)	NP_847635.1	244134
48901	D08	BA2129	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_844527.1	244146
49219	D09	BA2078	hypothetical protein	Chromosome (NC_003997)	NP_844478.1	244156
49339	D10	BA5485	hypothetical protein	Chromosome (NC_003997)	NP_847647.1	244167
49495	D11	BA2127	nitrate reductase delta chain	Chromosome (NC_003997)	NP_844525.1	244176
49860	D12	BA3838	membrane protein, putative	Chromosome (NC_003997)	NP_846089.1	241025
51765	E01	BA4382	dihydroliipoamide acetyltransferase	Chromosome (NC_003997)	NP_846612.1	247809
49925	E02	BA4410	stage III sporulation protein AH	Chromosome (NC_003997)	NP_846638.1	247820
47671	E03	BA5471	hypothetical protein	Chromosome (NC_003997)	NP_847637.1	244099
50151	E04	BA5494	hypothetical protein	Chromosome (NC_003997)	NP_847654.1	244108
48045	E05	BA5498	DNA-binding protein	Chromosome (NC_003997)	NP_847658.1	244116
50875	E06	BA5506	transcription antiterminator LytR	Chromosome (NC_003997)	NP_847666.1	244126
48825	E07	BA2099	hypothetical protein	Chromosome (NC_003997)	NP_844498.1	244136
51516	E08	BA5439	chromate ion transporter	Chromosome (NC_003997)	NP_847607.1	244147

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49250	E09	BA2136	molybdopterin converting factor, subunit 2	Chromosome (NC_003997)	NP_844534.1	244157
51965	E10	BA2126	respiratory nitrate reductase, beta subunit	Chromosome (NC_003997)	NP_844524.2	244168
49601	E11	BA2089	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844488.1	244177
47900	E12	BA3812	hypothetical protein	Chromosome (NC_003997)	NP_846064.1	241028
49623	F01	BA4372	hypothetical protein	Chromosome (NC_003997)	NP_846602.1	247810
50000	F02	BA4375	amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_846605.1	247822
50049	F03	BA5504	DNA-binding response regulator	Chromosome (NC_003997)	NP_847664.1	244100
47935	F04	BA2095	hypothetical protein	Chromosome (NC_003997)	NP_844494.1	244109
48055	F05	BA2093	hypothetical protein	Chromosome (NC_003997)	NP_844492.1	244118
48536	F06	BA2092	hypothetical protein	Chromosome (NC_003997)	NP_844491.1	244127
51298	F07	BA5435	glycosyl transferase, group 4 family protein	Chromosome (NC_003997)	NP_847603.1	244137
49012	F08	BA5438	hypothetical protein	Chromosome (NC_003997)	NP_847606.1	244148
51730	F09	BA5448	PTS system, cellobiose-specific IIC component	Chromosome (NC_003997)	NP_847616.1	244158
51848	F10	BA5483	hypothetical protein	Chromosome (NC_003997)	NP_847645.1	244170
49687	F11	BA2114	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_844512.1	244179
49896	F12	BA1457	DNA-binding response regulator	Chromosome (NC_003997)	NP_843913.1	241029
51799	G01	BA0163	gluconate permease	Chromosome (NC_003997)	NP_842728.1	247811
50013	G02	BA4411	stage III sporulation protein AG	Chromosome (NC_003997)	NP_846639.1	247824
47667	G03	BA2141	hypothetical protein	Chromosome (NC_003997)	NP_844539.1	244101
50162	G04	BA5440	hypothetical protein	Chromosome (NC_003997)	NP_847608.1	244110
50659	G05	BA2084	hypothetical protein	Chromosome (NC_003997)	NP_844484.1	244119
48547	G06	BA5482	hypothetical protein	Chromosome (NC_003997)	NP_847644.1	244128
48849	G07	BA5446	S-adenosylmethionine decarboxylase preenzyme	Chromosome (NC_003997)	NP_847614.1	244138
51547	G08	BA5497	efflux transporter, RND family, MFP subunit	Chromosome (NC_003997)	NP_847657.1	244149
49249	G09	BA2131	hypothetical protein	Chromosome (NC_003997)	NP_844529.1	244159
49371	G10	BA2124	hypothetical protein	Chromosome (NC_003997)	NP_844522.1	244171
47700	G11	BA1412	hypothetical protein	Chromosome (NC_003997)	NP_843869.1	241020
47927	G12	BA3817	hypothetical protein	Chromosome (NC_003997)	NP_846069.1	241032
49636	H01	BA0166	hypothetical protein	Chromosome (NC_003997)	NP_842731.1	247812
50028	H02	BA0173	ABC transporter, permease protein	Chromosome (NC_003997)	NP_842737.1	247826
50087	H03	BA5496	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847656.1	244102
48004	H04	BA2094	hypothetical protein	Chromosome (NC_003997)	NP_844493.1	244111
48186	H05	BA5490	hypothetical protein	Chromosome (NC_003997)	NP_847652.1	244120
48613	H06	BA5447	PTS system, cellobiose-specific IIA component	Chromosome (NC_003997)	NP_847615.1	244130
48865	H07	BA2140	hypothetical protein	Chromosome (NC_003997)	NP_844538.1	244140
49047	H08	BA2086	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844486.1	244150
51745	H09	BA5443	PTS system, cellobiose-specific IIC component	Chromosome (NC_003997)	NP_847611.1	244160
51871	H10	BA2085	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_844485.1	244172

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49752	H11	BA1442	adenylylsulfate kinase	Chromosome (NC_003997)	NP_843898.1	241021

Table 7: *Bacillus anthracis* Gateway® Clone, Plate 7 (QMG002848), NR-19731¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50340	A02	BA1463	ribosomal protein L5 domain protein	Chromosome (NC_003997)	NP_843918.1	241045
50599	A03	BA3798	hypothetical protein	Chromosome (NC_003997)	NP_846051.1	241059
48452	A04	BA3795	hypothetical protein	Chromosome (NC_003997)	NP_846049.1	241068
51237	A05	BA3807	hypothetical protein	Chromosome (NC_003997)	NP_846060.1	241077
48916	A06	BA3834	transcriptional repressor GlnR	Chromosome (NC_003997)	NP_846085.1	241086
51670	A07	BA1450	proton/glutamate symporter family protein	Chromosome (NC_003997)	NP_843906.1	241095
49530	A08	BA3850	hypothetical protein	Chromosome (NC_003997)	NP_846100.1	241108
47725	A09	BA0892	hypothetical protein	Chromosome (NC_003997)	NP_843403.1	240400
50695	A10	BA2787	glycine betaine/L-proline ABC transporter, glycine betaine/L-pr	Chromosome (NC_003997)	NP_845136.1	240419
51047	A11	BA0912	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843420.1	240429
48724	A12	BA2812	hypothetical protein	Chromosome (NC_003997)	NP_845159.1	240438
50005	B01	BA1454	PspA/IM30 family protein	Chromosome (NC_003997)	NP_843910.1	241033
48163	B02	BA3836	hypothetical protein	Chromosome (NC_003997)	NP_846087.1	241046
48319	B03	BA1413	hypothetical protein	Chromosome (NC_003997)	NP_843870.1	241060
51008	B04	BA3839	stage V sporulation protein K	Chromosome (NC_003997)	NP_846090.1	241069
48666	B05	BA3800	hypothetical protein	Chromosome (NC_003997)	NP_846053.1	241078
51584	B06	BA3786	hypothetical protein	Chromosome (NC_003997)	NP_846042.1	241087
49072	B07	BA3830	prophage LambdaBa01, repressor protein, putative	Chromosome (NC_003997)	NP_846082.1	241096
49633	B08	BA3804	hypothetical protein	Chromosome (NC_003997)	NP_846057.1	241110
47828	B09	BA0900	hypothetical protein	Chromosome (NC_003997)	NP_843411.1	240406
48157	B10	BA2804	hypothetical protein	Chromosome (NC_003997)	NP_845153.1	240420
48583	B11	BA2782	cpsH domain protein	Chromosome (NC_003997)	NP_845131.1	240430
51163	B12	BA2811	membrane protein, putative	Chromosome (NC_003997)	NP_845158.1	240439
48009	C01	BA3825	hypothetical protein	Chromosome (NC_003997)	NP_846077.1	241034
48222	C02	BA3842	host factor-I protein	Chromosome (NC_003997)	NP_846093.1	241048
50612	C03	BA3818	hypothetical protein	Chromosome (NC_003997)	NP_846070.2	241061
48470	C04	BA3811	hypothetical protein	Chromosome (NC_003997)	NP_846063.1	241070
51267	C05	BA1456	sensor histidine kinase	Chromosome (NC_003997)	NP_843912.1	241079
48982	C06	BA1411	hypothetical protein	Chromosome (NC_003997)	NP_843868.1	241088
51758	C07	BA1452	Na ⁺ /H ⁺ antiporter family protein	Chromosome (NC_003997)	NP_843908.1	241097
47622	C08	BA0913	hypothetical protein	Chromosome (NC_003997)	NP_843421.1	240394
50591	C09	BA2783	hypothetical protein	Chromosome (NC_003997)	NP_845132.1	240409
48333	C10	BA0930	hypothetical protein	Chromosome (NC_003997)	NP_843436.1	240422
51063	C11	BA0902	ornithine cyclodeaminase/mu-crystallin family protein	Chromosome (NC_003997)	NP_843413.1	240431
48867	C12	BA2808	hypothetical protein	Chromosome (NC_003997)	NP_845156.1	240440
48073	D01	BA3796	hypothetical protein	Chromosome (NC_003997)	NP_846050.1	241038
48229	D02	BA1469	hypothetical protein	Chromosome (NC_003997)	NP_843924.1	241050
48382	D03	BA3823	hypothetical protein	Chromosome (NC_003997)	NP_846075.1	241062

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51032	D04	BA3840	site-specific recombinase, phage integrase family	Chromosome (NC_003997)	NP_846091.1	241071
48762	D05	BA1453	hypothetical protein	Chromosome (NC_003997)	NP_843909.1	241080
51610	D06	BA1408	proton/glutamate symporter family protein	Chromosome (NC_003997)	NP_843865.1	241089
49316	D07	BA3822	hypothetical protein	Chromosome (NC_003997)	NP_846074.1	241098
50260	D08	BA5114	DNA binding protein, DksA/TraR family	Chromosome (NC_003997)	NP_847300.1	240395
47913	D09	BA2784	hypothetical protein	Chromosome (NC_003997)	NP_845133.1	240410
50972	D10	BA5125	L-lactate dehydrogenase	Chromosome (NC_003997)	NP_847311.1	240423
48634	D11	BA0932	hypothetical protein	Chromosome (NC_003997)	NP_843438.1	240432
51218	D12	BA0891	hypothetical protein	Chromosome (NC_003997)	NP_843402.1	240441
50198	E01	BA3827	hypothetical protein	Chromosome (NC_003997)	NP_846079.1	241039
50356	E02	BA3813	prophage LambdaBa01, thymidylate synthase-complementing protein	Chromosome (NC_003997)	NP_846065.1	241051
50872	E03	BA3847	1-phosphofructokinase	Chromosome (NC_003997)	NP_846098.1	241063
48642	E04	BA3824	hypothetical protein	Chromosome (NC_003997)	NP_846076.1	241072
51337	E05	BA1465	membrane protein, putative	Chromosome (NC_003997)	NP_843920.1	241081
49008	E06	BA3829	hypothetical protein	Chromosome (NC_003997)	NP_846081.1	241090
49386	E07	BA3803	prophage LambdaBa01, positive control factor Xpf, putative	Chromosome (NC_003997)	NP_846056.1	241100
47682	E08	BA5124	hypothetical protein	Chromosome (NC_003997)	NP_847310.1	240396
50634	E09	BA2785	glycine betaine/L-proline ABC transporter, permease protein	Chromosome (NC_003997)	NP_845134.1	240411
50982	E10	BA0909	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_843418.1	240425
48664	E11	BA2813	hypothetical protein	Chromosome (NC_003997)	NP_845160.1	240434
48874	E12	BA2780	hypothetical protein	Chromosome (NC_003997)	NP_845129.1	240442
48092	F01	BA3828	hypothetical protein	Chromosome (NC_003997)	NP_846080.1	241040
48291	F02	BA3809	hypothetical protein	Chromosome (NC_003997)	NP_846061.1	241052
48397	F03	BA3826	hypothetical protein	Chromosome (NC_003997)	NP_846078.1	241064
48641	F04	BA3810	hypothetical protein	Chromosome (NC_003997)	NP_846062.1	241074
48845	F05	BA3788	hypothetical protein	Chromosome (NC_003997)	NP_846044.1	241082
49050	F06	BA3792	hypothetical protein	Chromosome (NC_003997)	NP_846047.1	241092
51796	F07	BA1409	potassium uptake protein, TrkH family	Chromosome (NC_003997)	NP_843866.1	241101
50300	F08	BA0931	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_843437.1	240397
50662	F09	BA2778	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_845127.1	240413
48396	F10	BA2790	ferredoxin	Chromosome (NC_003997)	NP_845139.1	240426
51119	F11	BA5128	hypothetical protein	Chromosome (NC_003997)	NP_847314.1	240435
51230	F12	BA5121	glycogen biosynthesis protein GlgD	Chromosome (NC_003997)	NP_847307.1	240443
50285	G01	BA1455	hypothetical protein	Chromosome (NC_003997)	NP_843911.1	241041
50430	G02	BA1462	methytransferase, UbiE/COQ5 family	Chromosome (NC_003997)	NP_843917.1	241053
48423	G03	BA3820	hypothetical protein	Chromosome (NC_003997)	NP_846072.1	241066
51279	G04	BA3837	GTP-binding protein	Chromosome (NC_003997)	NP_846088.2	241075
51426	G05	BA1441	sulfate adenylyltransferase	Chromosome (NC_003997)	NP_843897.1	241083

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51673	G06	BA3835	hypothetical protein	Chromosome (NC_003997)	NP_846086.1	241093
51814	G07	BA1459	branched-chain amino acid transport system II carrier protein	Chromosome (NC_003997)	NP_843915.1	241103
47708	G08	BA5126	hypothetical protein	Chromosome (NC_003997)	NP_847312.1	240398
50675	G09	BA0910	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_843419.1	240415
51000	G10	BA5113	1,4-dihydroxy-2-naphthoate octaprenyltransferase, putative	Chromosome (NC_003997)	NP_847299.1	240427
48687	G11	BA0929	hypothetical protein	Chromosome (NC_003997)	NP_843435.1	240436
48894	G12	BA5148	comA operon protein, putative	Chromosome (NC_003997)	NP_847334.1	240444
50334	H01	BA3848	transcriptional regulator, DeoR family	Chromosome (NC_003997)	NP_846099.1	241043
48307	H02	BA3844	hypothetical protein	Chromosome (NC_003997)	NP_846095.1	241056
50968	H03	BA3843	tRNA delta(2)-isopentenylpyrophosphate transferase	Chromosome (NC_003997)	NP_846094.1	241067
48649	H04	BA1458	hypothetical protein	Chromosome (NC_003997)	NP_843914.1	241076
48839	H05	BA1410	hypothetical protein	Chromosome (NC_003997)	NP_843867.1	241084
49058	H06	BA3793	hypothetical protein	Chromosome (NC_003997)	NP_846048.1	241094
49451	H07	BA1451	hypothetical protein	Chromosome (NC_003997)	NP_843907.1	241106
50435	H08	BA2809	hypothetical protein	Chromosome (NC_003997)	NP_845157.1	240399
50686	H09	BA0899	hypothetical protein	Chromosome (NC_003997)	NP_843410.1	240417
48549	H10	BA0895	hypothetical protein	Chromosome (NC_003997)	NP_843406.1	240428
51126	H11	BA2776	TPP-dependent acetoin dehydrogenase E1 alpha-subunit	Chromosome (NC_003997)	NP_845125.1	240437

Table 8: *Bacillus anthracis* Gateway® Clone, Plate 8 (QMG002849), NR-19732¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49038	A02	BA5129	hypothetical protein	Chromosome (NC_003997)	NP_847315.1	240452
49290	A03	BA2777	hypothetical protein	Chromosome (NC_003997)	NP_845126.1	240460
49966	A04	BA0905	hypothetical protein	Chromosome (NC_003997)	NP_843415.1	240472
50425	A05	BA4188	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_846424.1	246612
50885	A06	BA1831	cysteine synthase A	Chromosome (NC_003997)	NP_844250.1	246622
51131	A07	BA4149	hydrolase, carbon-nitrogen family	Chromosome (NC_003997)	NP_846387.1	246637
48691	A08	BA1782	transposase, IS605 family, OrfA	Chromosome (NC_003997)	NP_844208.1	246646
51416	A09	BA4193	peptidase, M20/M25/M40 family	Chromosome (NC_003997)	NP_846429.1	246655
49362	A10	BA4160	hypothetical protein	Chromosome (NC_003997)	NP_846398.1	246666
49693	A11	BA4144	phosphoglycerate mutase family protein	Chromosome (NC_003997)	NP_846382.1	246678
51932	A12	BA1822	carbon starvation protein A, putative	Chromosome (NC_003997)	NP_844243.1	246687
51226	B01	BA2775	TPP-dependent acetoin dehydrogenase E1 beta-subunit	Chromosome (NC_003997)	NP_845124.1	240445

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51453	B02	BA5138	aminotransferase, classes I and II	Chromosome (NC_003997)	NP_847324.1	240453
49410	B03	BA2779	hypothetical protein	Chromosome (NC_003997)	NP_845128.1	240462
50008	B04	BA2791	ribose 5-phosphate isomerase	Chromosome (NC_003997)	NP_845140.1	240474
47755	B05	BA4176	hypothetical protein	Chromosome (NC_003997)	NP_846414.1	246613
48095	B06	BA4163	hypothetical protein	Chromosome (NC_003997)	NP_846401.1	246625
48446	B07	BA1820	hypothetical protein	Chromosome (NC_003997)	NP_844241.1	246638
51359	B08	BA1792	sensor histidine kinase, putative	Chromosome (NC_003997)	NP_844217.1	246647
49122	B09	BA1788	hypothetical protein	Chromosome (NC_003997)	NP_844214.1	246656
49425	B10	BA1832	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844251.1	246668
51792	B11	BA1784	D-serine dehydratase	Chromosome (NC_003997)	NP_844210.1	246679
50103	B12	BA1838	hypothetical protein	Chromosome (NC_003997)	NP_844257.1	246690
48893	C01	BA5141	kinase-associated protein B	Chromosome (NC_003997)	NP_847327.1	240446
49094	C02	BA2781	mutT/nudix family protein	Chromosome (NC_003997)	NP_845130.1	240454
51785	C03	BA5143	arsenical pump family protein	Chromosome (NC_003997)	NP_847329.1	240463
50036	C04	BA0904	membrane protein, putative	Chromosome (NC_003997)	NP_843414.1	240476
47754	C05	BA4174	hypothetical protein	Chromosome (NC_003997)	NP_846412.1	246615
50996	C06	BA1842	dehydrogenase, putative	Chromosome (NC_003997)	NP_844261.1	246630
51158	C07	BA1852	ketol-acid reductoisomerase	Chromosome (NC_003997)	NP_844269.1	246639
48812	C08	BA4148	hypothetical protein	Chromosome (NC_003997)	NP_846386.1	246648
49147	C09	BA4196	CBS domain protein	Chromosome (NC_003997)	NP_846432.1	246658
51644	C10	BA1828	GTP-binding protein	Chromosome (NC_003997)	NP_844248.1	246669
49862	C11	BA4152	cytochrome c oxidase, subunit III	Chromosome (NC_003997)	NP_846390.1	246680
50156	C12	BA1836	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_844255.1	246692
51255	D01	BA0897	Peptidase, family M20/M25/M40 protein	Chromosome (NC_003997)	NP_843408.1	240447
51551	D02	BA2774	dihydrolipoamide acetyltransferase	Chromosome (NC_003997)	NP_845123.1	240455
49534	D03	BA5139	superoxide dismutase, Cu-Zn	Chromosome (NC_003997)	NP_847325.1	240464
50203	D04	BA5145	hypothetical protein	Chromosome (NC_003997)	NP_847331.1	240484
50724	D05	BA4192	cytochrome d ubiquinol oxidase, subunit II-related protein	Chromosome (NC_003997)	NP_846428.1	246616
48240	D06	BA4179	hypothetical protein	Chromosome (NC_003997)	NP_846417.1	246631
48483	D07	BA4159	hypothetical protein	Chromosome (NC_003997)	NP_846397.1	246640
51520	D08	BA4158	cell division protein, FtsW/RodA/SpoVE family	Chromosome (NC_003997)	NP_846396.2	246649
51566	D09	BA1785	hypothetical protein	Chromosome (NC_003997)	NP_844211.1	246659
49456	D10	BA4198	hypothetical protein	Chromosome (NC_003997)	NP_846434.1	246670
51844	D11	BA1818	N-acetylmuramoyl-L-alanine amidase, family 4	Chromosome (NC_003997)	NP_844239.1	246681
50194	D12	BA1778	cytochrome c-type biogenesis protein CcdA	Chromosome (NC_003997)	NP_844204.1	246693
48972	E01	BA2802	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845151.1	240448
49095	E02	BA2792	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845141.1	240456
51839	E03	BA5147	glycyl-tRNA synthetase	Chromosome (NC_003997)	NP_847333.1	240467
50231	E04	BA5117	lipase family protein	Chromosome (NC_003997)	NP_847303.1	240486
47833	E05	BA4186	hypothetical protein	Chromosome (NC_003997)	NP_846422.1	246617
48271	E06	BA4207	hypothetical protein	Chromosome (NC_003997)	NP_846442.1	246633

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51228	E07	BA4147	hypothetical protein	Chromosome (NC_003997)	NP_846385.1	246641
48924	E08	BA4178	hypothetical protein	Chromosome (NC_003997)	NP_846416.1	246650
51583	E09	BA1830	fosmidomycin resistance protein	Chromosome (NC_003997)	NP_844249.1	246661
51654	E10	BA1819	transporter, putative	Chromosome (NC_003997)	NP_844240.1	246672
49921	E11	BA1791	DNA-binding response regulator, LuxR family	Chromosome (NC_003997)	NP_844216.1	246682
50229	E12	BA4194	2,3,4,5-tetrahydropyridine-2-carboxylate N-succinyltransferase,	Chromosome (NC_003997)	NP_846430.1	246695
51366	F01	BA5107	N-acylamino acid racemase	Chromosome (NC_003997)	NP_847293.1	240449
51572	F02	BA2786	glycine betaine/L-proline ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845135.1	240457
49768	F03	BA2772	hypothetical protein	Chromosome (NC_003997)	NP_845121.1	240468
47642	F04	BA1824	hypothetical protein	Chromosome (NC_003997)	NP_844245.1	246609
50785	F05	BA4195	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_846431.1	246618
48309	F06	BA4145	hypothetical protein	Chromosome (NC_003997)	NP_846383.1	246634
48516	F07	BA4177	hypothetical protein	Chromosome (NC_003997)	NP_846415.1	246642
51370	F08	BA1794	ABC transporter, permease protein	Chromosome (NC_003997)	NP_844219.1	246651
51582	F09	BA1783	transposase, IS605 family, OrfB	Chromosome (NC_003997)	NP_844209.1	246663
49594	F10	BA4187	polypeptide deformylase	Chromosome (NC_003997)	NP_846423.1	246673
51888	F11	BA4181	pyruvate dehydrogenase complex E3 component, dihydrolipoamide de	Chromosome (NC_003997)	NP_846418.1	246683
50303	F12	BA1797	uridylate kinase	Chromosome (NC_003997)	NP_844222.1	246697
49020	G01	BA2807	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845155.1	240450
49243	G02	BA5144	hypothetical protein	Chromosome (NC_003997)	NP_847330.1	240458
51843	G03	BA0893	membrane protein, putative	Chromosome (NC_003997)	NP_843404.1	240469
50380	G04	BA1823	hypothetical protein	Chromosome (NC_003997)	NP_844244.1	246610
50853	G05	BA4150	membrane protein, putative	Chromosome (NC_003997)	NP_846388.1	246620
51083	G06	BA1826	3-oxoacyl-(acyl-carrier-protein) synthase III, putative	Chromosome (NC_003997)	NP_844246.1	246635
51260	G07	BA4154	cytochrome c oxidase, subunit II	Chromosome (NC_003997)	NP_846392.1	246643
49092	G08	BA1816	mutT/nudix family protein	Chromosome (NC_003997)	NP_844237.1	246652
49307	G09	BA1789	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_844215.1	246664
49591	G10	BA1827	cblN domain protein	Chromosome (NC_003997)	NP_844247.1	246675
49934	G11	BA1840	fibronectin-binding protein, putative	Chromosome (NC_003997)	NP_844259.1	246684
47615	G12	BA3890	hypothetical protein	Chromosome (NC_003997)	NP_846137.1	247838
51417	H01	BA5122	glucose-1-phosphate adenylyltransferase	Chromosome (NC_003997)	NP_847308.1	240451
51571	H02	BA0926	tellurium resistance protein, putative	Chromosome (NC_003997)	NP_843432.1	240459
49865	H03	BA5142	sporulation inhibitor KapD	Chromosome (NC_003997)	NP_847328.1	240470
47717	H04	BA1839	hypothetical protein	Chromosome (NC_003997)	NP_844258.1	246611
48043	H05	BA4197	hypothetical protein	Chromosome (NC_003997)	NP_846433.1	246621
48379	H06	BA1837	hypothetical protein	Chromosome (NC_003997)	NP_844256.1	246636

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48668	H07	BA4151	cytochrome c oxidase, subunit IVB	Chromosome (NC_003997)	NP_846389.1	246644
51382	H08	BA4184	pyruvate dehydrogenase complex E1 component, alpha subunit	Chromosome (NC_003997)	NP_846421.1	246653
51590	H09	BA1796	cardiolipin synthetase domain protein	Chromosome (NC_003997)	NP_844221.1	246665
49590	H10	BA1779	thioredoxin family protein	Chromosome (NC_003997)	NP_844205.1	246677
50020	H11	BA4191	potassium uptake protein, TrkA family	Chromosome (NC_003997)	NP_846427.1	246686

Table 9: *Bacillus anthracis* Gateway® Clone, Plate 9 (QMG002850), NR-19733¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48029	A02	BA4349	hypothetical protein	Chromosome (NC_003997)	NP_846581.1	247852
50514	A03	BA3893	cell wall hydrolase, putative	Chromosome (NC_003997)	NP_846140.1	247860
50904	A04	BA3911	renal dipeptidase family protein	Chromosome (NC_003997)	NP_846158.1	247872
48818	A05	BA0120	ribosomal protein L14	Chromosome (NC_003997)	NP_842688.1	247881
51465	A06	BA4352	acetylornithine aminotransferase	Chromosome (NC_003997)	NP_846584.1	247892
49369	A07	BA0127	ribosomal protein S5	Chromosome (NC_003997)	NP_842695.1	247901
49812	A08	BA1510	negative regulator of competence MecA, putative	Chromosome (NC_003997)	NP_843961.1	247912
50083	A09	BA3888	hypothetical protein	Chromosome (NC_003997)	NP_846135.1	247928
47731	A10	BA2325	hypothetical protein	Chromosome (NC_003997)	NP_844710.1	246533
50006	A11	BA2296	CoA-transferase, beta subunit	Chromosome (NC_003997)	NP_844681.1	246543
47996	A12	BA0448	hypothetical protein	Chromosome (NC_003997)	NP_842989.1	246553
50159	B01	BA3903	bacteriocin ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_846150.1	247839
48042	B02	BA3889	hypothetical protein	Chromosome (NC_003997)	NP_846136.1	247853
48316	B03	BA0104	ribosomal protein L7A family	Chromosome (NC_003997)	NP_842672.1	247861
48565	B04	BA0109	ribosomal protein S10	Chromosome (NC_003997)	NP_842677.1	247873
51105	B05	BA3891	1-phosphatidylinositol phosphodiesterase	Chromosome (NC_003997)	NP_846138.1	247882
49120	B06	BA0129	ribosomal protein L15	Chromosome (NC_003997)	NP_842697.1	247893
49526	B07	BA0125	ribosomal protein L6	Chromosome (NC_003997)	NP_842693.1	247903
51832	B08	BA4345	Na ⁺ /H ⁺ antiporter NhaC	Chromosome (NC_003997)	NP_846577.1	247913
47626	B09	BA1845	hypothetical protein	Chromosome (NC_003997)	NP_844264.1	246525
49814	B10	BA2324	hypothetical protein	Chromosome (NC_003997)	NP_844709.1	246534
47917	B11	BA0447	hypothetical protein	Chromosome (NC_003997)	NP_842988.1	246544
48047	B12	BA0440	hypothetical protein	Chromosome (NC_003997)	NP_842981.1	246555
50199	C01	BA3921	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_846168.1	247841
50465	C02	BA3919	ACT domain protein	Chromosome (NC_003997)	NP_846166.1	247854
48325	C03	BA3920	hypothetical protein	Chromosome (NC_003997)	NP_846167.1	247863
50986	C04	BA4351	ornithine carbamoyltransferase	Chromosome (NC_003997)	NP_846583.1	247874
48879	C05	BA4342	hypothetical protein	Chromosome (NC_003997)	NP_846575.1	247883
51530	C06	BA4339	8-amino-7-oxononanoate synthase	Chromosome (NC_003997)	NP_846572.1	247894
51700	C07	BA3922	zinc protease, insulinase family	Chromosome (NC_003997)	NP_846169.1	247904

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX CloneID
49894	C08	BA0110	ribosomal protein L3	Chromosome (NC_003997)	NP_842678.1	247916
49516	C09	BA1846	peptide methionine sulfoxide reductase	Chromosome (NC_003997)	NP_844265.1	246526
49854	C10	BA4213	hypothetical protein	Chromosome (NC_003997)	NP_846448.1	246536
47931	C11	BA0441	hypothetical protein	Chromosome (NC_003997)	NP_842982.1	246546
50385	C12	BA4204	oxidoreductase, short chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_846440.1	246556
47934	D01	BA1517	hypothetical protein	Chromosome (NC_003997)	NP_843968.1	247842
48080	D02	BA0118	ribosomal protein L29	Chromosome (NC_003997)	NP_842686.1	247855
50723	D03	BA3909	pyruvate ferredoxin oxidoreductase, beta subunit, putative	Chromosome (NC_003997)	NP_846156.1	247866
48574	D04	BA0121	ribosomal protein L24	Chromosome (NC_003997)	NP_842689.1	247875
48942	D05	BA0124	ribosomal protein S8	Chromosome (NC_003997)	NP_842692.1	247885
49161	D06	BA4348	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_846580.1	247895
49525	D07	BA0122	ribosomal protein L5	Chromosome (NC_003997)	NP_842690.1	247905
49964	D08	BA0131	adenylate kinase	Chromosome (NC_003997)	NP_842699.1	247918
47646	D09	BA4234	hypothetical protein	Chromosome (NC_003997)	NP_846469.1	246527
47767	D10	BA0431	hypothetical protein	Chromosome (NC_003997)	NP_842973.1	246537
47959	D11	BA0444	hypothetical protein	Chromosome (NC_003997)	NP_842985.1	246548
48085	D12	BA2318	DNA-binding protein	Chromosome (NC_003997)	NP_844703.1	246557
47975	E01	BA0128	ribosomal protein L30	Chromosome (NC_003997)	NP_842696.1	247844
50501	E02	BA4357	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_846589.1	247856
48376	E03	BA0119	ribosomal protein S17	Chromosome (NC_003997)	NP_842687.1	247867
51056	E04	BA1516	L-asparaginase	Chromosome (NC_003997)	NP_843967.1	247876
49040	E05	BA0105	ribosomal protein S12	Chromosome (NC_003997)	NP_842673.1	247887
51524	E06	BA0108	translation elongation factor Tu	Chromosome (NC_003997)	NP_842676.1	247896
49542	E07	BA3906	spore coat protein E	Chromosome (NC_003997)	NP_846153.1	247907
49999	E08	BA4361	L-serine dehydratase, iron-sulfur-dependent, beta subunit	Chromosome (NC_003997)	NP_846592.1	247920
49537	E09	BA2287	hypothetical protein	Chromosome (NC_003997)	NP_844672.1	246528
47783	E10	BA0449	hypothetical protein	Chromosome (NC_003997)	NP_842990.1	246538
50324	E11	BA4222	hypothetical protein	Chromosome (NC_003997)	NP_846457.1	246549
48096	E12	BA4224	hypothetical protein	Chromosome (NC_003997)	NP_846459.1	246558
48011	F01	BA4356	hypothetical protein	Chromosome (NC_003997)	NP_846588.1	247846
48140	F02	BA1512	hypothetical protein	Chromosome (NC_003997)	NP_843963.1	247857
48442	F03	BA0114	ribosomal protein S19	Chromosome (NC_003997)	NP_842682.1	247869
51079	F04	BA1515	pyridine nucleotide-disulfide oxidoreductase family protein	Chromosome (NC_003997)	NP_843966.1	247878
51256	F05	BA1520	isopentenyl-diphosphate delta-isomerase	Chromosome (NC_003997)	NP_843971.1	247888
49231	F06	BA1514	N-acetylmuramoyl-L-alanine amidase, family 2	Chromosome (NC_003997)	NP_843965.1	247897
51790	F07	BA3894	hypothetical protein	Chromosome (NC_003997)	NP_846141.1	247909
49990	F08	BA0116	ribosomal protein S3	Chromosome (NC_003997)	NP_842684.1	247922
47658	F09	BA4221	hypothetical protein	Chromosome (NC_003997)	NP_846456.1	246529
47789	F10	BA2323	hypothetical protein	Chromosome (NC_003997)	NP_844708.1	246540

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47966	F11	BA2305	hypothetical protein	Chromosome (NC_003997)	NP_844690.1	246550
50651	F12	BA4227	maltosaccharide ABC transporter, permease protein	Chromosome (NC_003997)	NP_846462.1	246559
47993	G01	BA0123	ribosomal protein S14	Chromosome (NC_003997)	NP_842691.1	247848
50500	G02	BA3913	phosphoesterase family protein	Chromosome (NC_003997)	NP_846160.1	247858
50874	G03	BA3918	hypothetical protein	Chromosome (NC_003997)	NP_846165.1	247870
48791	G04	BA0126	ribosomal protein L18	Chromosome (NC_003997)	NP_842694.1	247879
49080	G05	BA3907	hypothetical protein	Chromosome (NC_003997)	NP_846154.1	247889
51600	G06	BA4354	glutamate N-acetyltransferase/amino-acid acetyltransferase	Chromosome (NC_003997)	NP_846586.1	247898
49692	G07	BA3917	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase	Chromosome (NC_003997)	NP_846164.1	247910
50011	G08	BA3900	lantibiotic biosynthesis DNA-binding response regulator, putative	Chromosome (NC_003997)	NP_846147.1	247924
47704	G09	BA2293	hypothetical protein	Chromosome (NC_003997)	NP_844678.1	246531
50007	G10	BA2303	hypothetical protein	Chromosome (NC_003997)	NP_844688.1	246541
47984	G11	BA2320	hypothetical protein	Chromosome (NC_003997)	NP_844705.1	246551
48084	G12	BA1844	hypothetical protein	Chromosome (NC_003997)	NP_844263.1	246560
48010	H01	BA3897	hypothetical protein	Chromosome (NC_003997)	NP_846144.1	247850
48256	H02	BA1513	hypothetical protein	Chromosome (NC_003997)	NP_843964.1	247859
48486	H03	BA0112	ribosomal protein L23	Chromosome (NC_003997)	NP_842680.1	247871
51095	H04	BA3898	choloylglycine hydrolase family protein	Chromosome (NC_003997)	NP_846145.1	247880
51444	H05	BA1519	ribosomal protein S1	Chromosome (NC_003997)	NP_843970.1	247890
51618	H06	BA3916	competence/damage-inducible protein CinA	Chromosome (NC_003997)	NP_846163.1	247900
51824	H07	BA3899	lantibiotic biosynthesis sensor histidine kinase, putative	Chromosome (NC_003997)	NP_846146.1	247911
50061	H08	BA1518	cytidylate kinase	Chromosome (NC_003997)	NP_843969.1	247926
49777	H09	BA0446	hypothetical protein	Chromosome (NC_003997)	NP_842987.1	246532
47904	H10	BA0430	hypothetical protein	Chromosome (NC_003997)	NP_842972.1	246542
50352	H11	BA2308	sporulation-control protein Spo0M, putative	Chromosome (NC_003997)	NP_844693.1	246552

Table 10: *Bacillus anthracis* Gateway® Clone, Plate 10 (QMG002851), NR-19734¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48269	A02	BA4200	hypothetical protein	Chromosome (NC_003997)	NP_846436.1	246570
48592	A03	BA2311	thioredoxin family protein	Chromosome (NC_003997)	NP_844696.1	246578
51816	A04	BA2288	CBS domain protein	Chromosome (NC_003997)	NP_844673.1	246589
49375	A05	BA4215	hypothetical protein	Chromosome (NC_003997)	NP_846450.1	246603
50217	A06	BA2240	1-acyl-sn-glycerol-3-phosphate acyltransferase, putative	Chromosome (NC_003997)	NP_844631.1	246793
50602	A07	BA4554	pyrroline-5-carboxylate reductase, putative	Chromosome (NC_003997)	NP_846776.2	246805
48870	A08	BA0360	hypothetical protein	Chromosome (NC_003997)	NP_842905.1	246814
50906	A09	BA4601	O-acetylserine lyase	Chromosome (NC_003997)	NP_846820.1	246823
49266	A10	BA2224	hypothetical protein	Chromosome (NC_003997)	NP_844616.1	246832

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49522	A11	BA4579	hypothetical protein	Chromosome (NC_003997)	NP_846800.1	246841
49734	A12	BA2249	SCO1/SenC family lipoprotein	Chromosome (NC_003997)	NP_844639.1	246852
50660	B01	BA2298	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844683.1	246561
48420	B02	BA2301	hypothetical protein	Chromosome (NC_003997)	NP_844686.1	246571
48702	B03	BA0432	prophage LambdaBa04, DNA-binding protein	Chromosome (NC_003997)	NP_842974.1	246580
49131	B04	BA4236	lipoprotein, putative	Chromosome (NC_003997)	NP_846471.1	246590
49415	B05	BA4233	hypothetical protein	Chromosome (NC_003997)	NP_846468.1	246605
48242	B06	BA4598	hypothetical protein	Chromosome (NC_003997)	NP_846817.1	246794
48596	B07	BA4587	pterin-4-alpha-carbinolamine dehydratase, putative	Chromosome (NC_003997)	NP_846807.1	246806
50667	B08	BA2246	degV family protein	Chromosome (NC_003997)	NP_844637.1	246815
49210	B09	BA4592	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846811.1	246824
51157	B10	BA0349	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_842896.1	246833
49556	B11	BA4590	DNA-binding protein	Chromosome (NC_003997)	NP_846809.1	246842
49733	B12	BA2230	hypothetical protein	Chromosome (NC_003997)	NP_844621.1	246853
48177	C01	BA2302	hypothetical protein	Chromosome (NC_003997)	NP_844687.1	246562
51344	C02	BA4232	sugar ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846467.1	246572
51655	C03	BA1854	threonine dehydratase, biosynthetic	Chromosome (NC_003997)	NP_844271.1	246581
51850	C04	BA2299	arginine utilization regulatory protein RocR	Chromosome (NC_003997)	NP_844684.1	246591
49496	C05	BA2322	hypothetical protein	Chromosome (NC_003997)	NP_844707.1	246607
48277	C06	BA0354	DNA binding domain, excisionase family	Chromosome (NC_003997)	NP_842901.1	246796
50510	C07	BA2219	membrane protein, putative	Chromosome (NC_003997)	NP_844611.1	246807
48955	C08	BA4594	ankyrin repeat domain protein	Chromosome (NC_003997)	NP_846813.1	246816
50914	C09	BA4561	shikimate 5-dehydrogenase	Chromosome (NC_003997)	NP_846783.1	246825
49376	C10	BA4578	hypothetical protein	Chromosome (NC_003997)	NP_846799.1	246834
49584	C11	BA0335	hypothetical protein	Chromosome (NC_003997)	NP_842882.1	246844
49795	C12	BA4580	phosphoglycerate mutase family, putative	Chromosome (NC_003997)	NP_846801.1	246855
50680	D01	BA4666	prephenate dehydratase	Chromosome (NC_003997)	NP_846881.1	246563
48488	D02	BA0445	prophage LambdaBa04, transactivating regulatory domain protein	Chromosome (NC_003997)	NP_842987.1	246573
51665	D03	BA2297	peptidase, M20/M25/M40 family	Chromosome (NC_003997)	NP_844682.1	246583
49193	D04	BA4235	hypothetical protein	Chromosome (NC_003997)	NP_846470.1	246592
47656	D05	BA2244	hypothetical protein	Chromosome (NC_003997)	NP_844635.1	246783
48337	D06	BA2245	hypothetical protein	Chromosome (NC_003997)	NP_844636.1	246798
48773	D07	BA4556	iojap-related protein	Chromosome (NC_003997)	NP_846778.1	246808
50715	D08	BA4577	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_846798.1	246817
49220	D09	BA2250	heat shock protein, Hsp20 family	Chromosome (NC_003997)	NP_844640.1	246826
49402	D10	BA4593	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846812.1	246835
51603	D11	BA0346	5-methylthioribose kinase, putative	Chromosome (NC_003997)	NP_842893.1	246847
49864	D12	BA4571	nitroreductase family protein	Chromosome (NC_003997)	NP_846793.1	246857
48199	E01	BA0433	prophage LambdaBa04, DNA-binding protein	Chromosome (NC_003997)	NP_842975.1	246564

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48489	E02	BA2304	hypothetical protein	Chromosome (NC_003997)	NP_844689.1	246574
48917	E03	BA4219	competence protein j	Chromosome (NC_003997)	NP_846454.1	246584
49208	E04	BA4210	hypothetical protein	Chromosome (NC_003997)	NP_846445.1	246594
47661	E05	BA4559	hypothetical protein	Chromosome (NC_003997)	N/A	246784
48509	E06	BA4567	hypothetical protein	Chromosome (NC_003997)	NP_846789.1	246800
50532	E07	BA0376	hydroxyethylthiazole kinase	Chromosome (NC_003997)	NP_842920.1	246809
48977	E08	BA4589	hypothetical protein	Chromosome (NC_003997)	NP_846808.1	246818
50928	E09	BA2233	hypothetical protein	Chromosome (NC_003997)	NP_844624.1	246827
49422	E10	BA0336	hypothetical protein	Chromosome (NC_003997)	NP_842883.1	246836
49653	E11	BA4557	conserved hypothetical protein TIGR00488	Chromosome (NC_003997)	NP_846779.1	246848
49935	E12	BA2231	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_844622.1	246859
50697	F01	BA4205	Ser/Thr protein phosphatase family protein	Chromosome (NC_003997)	NP_846441.1	246565
51471	F02	BA4225	aminotransferase, classes I and II	Chromosome (NC_003997)	NP_846460.1	246575
51679	F03	BA4223	sporulation kinase B	Chromosome (NC_003997)	NP_846458.1	246585
49218	F04	BA1843	hypothetical protein	Chromosome (NC_003997)	NP_844262.1	246596
47673	F05	BA0356	hypothetical protein	Chromosome (NC_003997)	NP_842902.1	246786
50481	F06	BA4565	phosphatidylserine decarboxylase	Chromosome (NC_003997)	NP_846787.1	246801
48819	F07	BA0353	hypothetical protein	Chromosome (NC_003997)	NP_842900.1	246810
50866	F08	BA2217	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_844609.1	246819
49242	F09	BA4573	lipoprotein, putative	Chromosome (NC_003997)	NP_846795.1	246828
51242	F10	BA0347	translation initiation factor, putative, aIF-2B1 family	Chromosome (NC_003997)	NP_842894.1	246837
51661	F11	BA0358	hypothetical protein	Chromosome (NC_003997)	NP_842904.1	246849
49931	F12	BA0348	L-fucose phosphate aldolase	Chromosome (NC_003997)	NP_842895.1	246861
48270	G01	BA4201	glutaredoxin family protein	Chromosome (NC_003997)	NP_846437.1	246568
48514	G02	BA2306	hypothetical protein	Chromosome (NC_003997)	NP_844691.1	246576
48922	G03	BA2290	hypothetical protein	Chromosome (NC_003997)	NP_844675.1	246586
49229	G04	BA0443	hypothetical protein	Chromosome (NC_003997)	NP_842984.1	246598
47758	G05	BA4564	hypothetical protein	Chromosome (NC_003997)	NP_846786.1	246788
48508	G06	BA4560	conserved hypothetical protein TIGR00253	Chromosome (NC_003997)	NP_846782.1	246802
48869	G07	BA4591	maoC family protein	Chromosome (NC_003997)	NP_846810.1	246812
49077	G08	BA2227	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844618.1	246820
50980	G09	BA4597	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_846816.1	246829
49433	G10	BA4563	hydrolase, HAD subfamily IIIA	Chromosome (NC_003997)	NP_846785.1	246838
49672	G11	BA2218	hypothetical protein	Chromosome (NC_003997)	NP_844610.1	246850
49969	G12	BA4572	hypothetical protein	Chromosome (NC_003997)	NP_846794.1	246863
50827	H01	BA1849	branched-chain amino acid aminotransferase	Chromosome (NC_003997)	NP_844267.1	246569
48537	H02	BA2319	hypothetical protein	Chromosome (NC_003997)	NP_844704.1	246577
49014	H03	BA0442	hypothetical protein	Chromosome (NC_003997)	NP_842983.1	246587
49336	H04	BA4202	hypothetical protein	Chromosome (NC_003997)	NP_846438.1	246601
48005	H05	BA2242	twin-arginine translocation protein, TatA/E family	Chromosome (NC_003997)	NP_844633.1	246792

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48567	H06	BA2232	hypothetical protein	Chromosome (NC_003997)	NP_844623.1	246804
50626	H07	BA4576	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846797.1	246813
50884	H08	BA0351	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_842898.1	246821
49259	H09	BA4568	hypothetical protein	Chromosome (NC_003997)	NP_846790.1	246830
49654	H10	BA4558	nicotinate (nicotinamide) nucleotide adenyltransferase	Chromosome (NC_003997)	NP_846780.2	246840
51710	H11	BA0370	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_842914.1	246851

Table 11: *Bacillus anthracis* Gateway® Clone, Plate 11 (QMG002852), NR-19735¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47777	A02	BA4550	hypothetical protein	Chromosome (NC_003997)	NP_846772.1	247055
50122	A03	BA0338	hypothetical protein	Chromosome (NC_003997)	NP_842885.1	247064
50418	A04	BA2202	transposase, IS110 family, OrfA	Chromosome (NC_003997)	NP_844594.1	247074
51098	A05	BA0334	hypothetical protein	Chromosome (NC_003997)	NP_842881.1	247088
51378	A06	BA0342	amidohydrolase amhX	Chromosome (NC_003997)	NP_842889.1	247098
48796	A07	BA2189	hypothetical protein	Chromosome (NC_003997)	NP_844581.1	247109
51818	A08	BA2213	sensor histidine kinase	Chromosome (NC_003997)	NP_844605.1	247119
49544	A09	BA4099	prophage LambdaBa02, site-specific recombinase, phage integrase	Chromosome (NC_003997)	NP_846338.2	247134
50386	A10	BA4247	hypothetical protein	Chromosome (NC_003997)	NP_846482.1	246176
47902	A11	BA4244	hlyC domain protein	Chromosome (NC_003997)	NP_846479.1	246185
48389	A12	BA0520	hypothetical protein	Chromosome (NC_003997)	NP_843056.1	246195
49986	B01	BA2241	hemolysin III	Chromosome (NC_003997)	NP_844632.1	246864
47776	B02	BA4131	hypothetical protein	Chromosome (NC_003997)	NP_846370.1	247057
47901	B03	BA4123	hypothetical protein	Chromosome (NC_003997)	NP_846362.1	247065
47964	B04	BA1729	hypothetical protein	Chromosome (NC_003997)	NP_844164.1	247075
51308	B05	BA0330	polysaccharide deacetylase-like protein	Chromosome (NC_003997)	NP_842877.1	247090
48580	B06	BA1723	hypothetical protein	Chromosome (NC_003997)	NP_844158.1	247099
51664	B07	BA1731	permease, putative	Chromosome (NC_003997)	NP_844166.1	247110
48967	B08	BA1726	hypothetical protein	Chromosome (NC_003997)	NP_844161.1	247120
49480	B09	BA1732	lipoprotein, putative	Chromosome (NC_003997)	NP_844167.1	247135
50426	B10	BA4760	electron transfer flavoprotein, beta subunit	Chromosome (NC_003997)	NP_846966.1	246178
50504	B11	BA4748	chemotaxis protein MotA	Chromosome (NC_003997)	NP_846956.1	246188
50786	B12	BA4745	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846954.1	246196
49991	C01	BA0377	thiamine-phosphate pyrophosphorylase	Chromosome (NC_003997)	NP_842921.1	246866
49810	C02	BA0343	hypothetical protein	Chromosome (NC_003997)	NP_842890.1	247058
50136	C03	BA2205	hypothetical protein	Chromosome (NC_003997)	NP_844597.1	247066
50417	C04	BA2188	hypothetical protein	Chromosome (NC_003997)	NP_844580.1	247076
48353	C05	BA4117	hypothetical protein	Chromosome (NC_003997)	NP_846356.1	247091
51485	C06	BA4093	hypothetical protein	Chromosome (NC_003997)	NP_846332.1	247100

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48830	C07	BA4126	prophage LambdaBa02, repressor protein	Chromosome (NC_003997)	NP_846365.1	247112
49106	C08	BA2197	hypothetical protein	Chromosome (NC_003997)	NP_844589.1	247122
49610	C09	BA4552	ComE operon protein 2	Chromosome (NC_003997)	NP_846774.1	247137
47841	C10	BA1896	hypothetical protein	Chromosome (NC_003997)	NP_844307.1	246179
48142	C11	BA1869	hypothetical protein	Chromosome (NC_003997)	NP_844285.1	246189
48478	C12	BA0524	small acid-soluble spore protein, gamma-type	Chromosome (NC_003997)	NP_843060.1	246197
50018	D01	BA2220	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_844612.1	246868
47788	D02	BA2200	hypothetical protein	Chromosome (NC_003997)	NP_844592.1	247059
47928	D03	BA4101	hypothetical protein	Chromosome (NC_003997)	NP_846340.1	247067
50456	D04	BA2201	site-specific recombinase, resolvase family, putative	Chromosome (NC_003997)	NP_844593.1	247078
48419	D05	BA2191	hypothetical protein	Chromosome (NC_003997)	NP_844583.1	247093
48623	D06	BA0328	multidrug resistance protein, Smr family	Chromosome (NC_003997)	NP_842875.1	247101
51686	D07	BA2193	TPR domain protein	Chromosome (NC_003997)	NP_844585.1	247113
49160	D08	BA4112	prophage LambdaBa02, deoxyuridine 5'-triphosphate nucleotidohydr	Chromosome (NC_003997)	NP_846351.1	247124
47627	D09	BA1870	hypothetical protein	Chromosome (NC_003997)	NP_844286.1	246171
50450	D10	BA4750	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_846957.1	246180
50552	D11	BA0516	recX domain protein	Chromosome (NC_003997)	NP_843052.1	246190
48477	D12	BA0523	yfhS protein	Chromosome (NC_003997)	NP_843059.1	246199
47655	E01	BA2182	hypothetical protein	Chromosome (NC_003997)	NP_844575.1	247049
49973	E02	BA2195	hypothetical protein	Chromosome (NC_003997)	NP_844587.1	247060
50165	E03	BA0337	hypothetical protein	Chromosome (NC_003997)	NP_842884.1	247068
50529	E04	BA4120	prophage LambdaBa02, DNA replication protein DnaC, putative	Chromosome (NC_003997)	NP_846359.1	247080
51349	E05	BA0331	polysaccharide deacetylase-like protein	Chromosome (NC_003997)	NP_842878.1	247094
51549	E06	BA0332	nucleoside transporter, NupC family	Chromosome (NC_003997)	NP_842879.1	247104
48878	E07	BA4095	hypothetical protein	Chromosome (NC_003997)	NP_846334.1	247114
51835	E08	BA0333	RNA methyltransferase, TrmA family	Chromosome (NC_003997)	NP_842880.1	247125
50362	E09	BA1859	oxidoreductase	Chromosome (NC_003997)	NP_844276.1	246172
47857	E10	BA0518	hypothetical protein	Chromosome (NC_003997)	NP_843054.1	246181
48246	E11	BA1897	hypothetical protein	Chromosome (NC_003997)	NP_844308.1	246191
50886	E12	BA1898	membrane protein, putative	Chromosome (NC_003997)	NP_844309.1	246200
49722	F01	BA1725	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844160.1	247050
47824	F02	BA4114	hypothetical protein	Chromosome (NC_003997)	NP_846353.1	247061
47923	F03	BA1724	hypothetical protein	Chromosome (NC_003997)	NP_844159.1	247069
50586	F04	BA4098	hypothetical protein	Chromosome (NC_003997)	NP_846337.1	247082
48460	F05	BA2204	hypothetical protein	Chromosome (NC_003997)	NP_844596.1	247095
48728	F06	BA4130	prophage LambdaBa02, repressor protein	Chromosome (NC_003997)	NP_846369.1	247105
51720	F07	BA2186	aspartyl-tRNA synthetase	Chromosome (NC_003997)	NP_844578.1	247115

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49233	F08	BA2203	transposase, IS110 family, OrfB	Chromosome (NC_003997)	NP_844595.1	247126
47666	F09	BA1871	hypothetical protein	Chromosome (NC_003997)	NP_844287.1	246173
50462	F10	BA0534	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843069.1	246182
50603	F11	BA4746	acid phosphatase	Chromosome (NC_003997)	NP_846955.1	246192
48505	F12	BA4242	hypothetical protein	Chromosome (NC_003997)	NP_846477.1	246201
47737	G01	BA4102	hypothetical protein	Chromosome (NC_003997)	NP_846341.1	247053
50091	G02	BA2212	DNA-binding response regulator	Chromosome (NC_003997)	NP_844604.1	247062
50210	G03	BA4121	prophage LambdaBa02, DNA replication protein	Chromosome (NC_003997)	NP_846360.1	247070
50830	G04	BA4115	prophage LambdaBa02, RNA polymerase sigma-F factor, putative	Chromosome (NC_003997)	NP_846354.1	247084
51367	G05	BA0339	mandelate racemase/muconate lactonizing enzyme family protein	Chromosome (NC_003997)	NP_842886.1	247096
51581	G06	BA1730	DNA-binding protein	Chromosome (NC_003997)	NP_844165.1	247106
48886	G07	BA2215	hypothetical protein	Chromosome (NC_003997)	NP_844607.1	247116
49257	G08	BA4100	hypothetical protein	Chromosome (NC_003997)	NP_846339.1	247128
50370	G09	BA4753	succinate dehydrogenase, iron-sulfur protein	Chromosome (NC_003997)	NP_846959.1	246174
47876	G10	BA0519	hypothetical protein	Chromosome (NC_003997)	NP_843055.1	246183
48365	G11	BA0526	hypothetical protein	Chromosome (NC_003997)	NP_843061.1	246193
50902	G12	BA1860	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_844277.1	246202
49772	H01	BA4553	comE operon protein 1	Chromosome (NC_003997)	NP_846775.1	247054
47847	H02	BA4128	hypothetical protein	Chromosome (NC_003997)	NP_846367.1	247063
47938	H03	BA4118	hypothetical protein	Chromosome (NC_003997)	NP_846357.1	247071
48183	H04	BA4097	hypothetical protein	Chromosome (NC_003997)	NP_846336.1	247085
48482	H05	BA4116	hypothetical protein	Chromosome (NC_003997)	NP_846355.1	247097
48764	H06	BA2199	hypothetical protein	Chromosome (NC_003997)	NP_844591.1	247107
48911	H07	BA2207	hypothetical protein	Chromosome (NC_003997)	NP_844599.1	247118
49309	H08	BA2184	hypothetical protein	Chromosome (NC_003997)	NP_844577.1	247132
47676	H09	BA1867	hypothetical protein	Chromosome (NC_003997)	NP_844284.1	246175
50475	H10	BA1879	peptidase, M23/M37 family	Chromosome (NC_003997)	NP_844294.1	246184
50712	H11	BA1857	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844274.1	246194

Table 12: *Bacillus anthracis* Gateway® Clone, Plate 12 (QMG002853), NR-19736¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48872	A02	BA1872	lipoprotein, putative	Chromosome (NC_003997)	NP_844288.1	246211
51319	A03	BA0529	lipoprotein, putative	Chromosome (NC_003997)	NP_843064.1	246220
49490	A04	BA0527	hypothetical protein	Chromosome (NC_003997)	NP_843062.1	246231
51733	A05	BA0531	glutamate-1-semialdehyde-2,1-aminomutase	Chromosome (NC_003997)	NP_843066.1	246248
47872	A06	BA1407	hypothetical protein	Chromosome (NC_003997)	NP_843864.1	241889
47933	A07	BA1400	hypothetical protein	Chromosome (NC_003997)	NP_843857.1	241897
50499	A08	BA3748	phosphonate ABC transporter, permease protein	Chromosome (NC_003997)	NP_846009.1	241912

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50836	A09	BA1397	aminoglycoside phosphotransferase family protein	Chromosome (NC_003997)	NP_843854.1	241922
51169	A10	BA1378	transcriptional regulator, AbrB family	Chromosome (NC_003997)	NP_843836.1	241934
48946	A11	BA1383	hypothetical protein	Chromosome (NC_003997)	NP_843841.1	241943
51634	A12	BA3775	hypothetical protein	Chromosome (NC_003997)	NP_846031.1	241954
48576	B01	BA0517	hypothetical protein	Chromosome (NC_003997)	NP_843053.1	246203
51072	B02	BA4759	electron transfer flavoprotein, alpha subunit	Chromosome (NC_003997)	NP_846965.1	246212
49162	B03	BA4751	4-hydroxybenzoyl-CoA thioesterase, putative	Chromosome (NC_003997)	NP_846958.1	246221
51507	B04	BA1893	nucleoside transporter NupC	Chromosome (NC_003997)	NP_844304.1	246232
50040	B05	BA1892	deoxyribose-phosphate aldolase	Chromosome (NC_003997)	NP_844303.1	246249
49912	B06	BA1425	ATP phosphoribosyltransferase	Chromosome (NC_003997)	NP_843882.1	241890
50216	B07	BA1429	phosphoribosylformimino-5-aminoimidazole carboxamide ribotide isomerase	Chromosome (NC_003997)	NP_843886.1	241898
48265	B08	BA1415	hypothetical protein	Chromosome (NC_003997)	NP_843872.1	241913
48451	B09	BA3782	hypothetical protein	Chromosome (NC_003997)	NP_846038.1	241923
48654	B10	BA3757	hypothetical protein	Chromosome (NC_003997)	NP_846017.1	241935
49152	B11	BA1394	flavodoxin	Chromosome (NC_003997)	NP_843851.2	241945
49175	B12	BA1380	transcriptional regulator, AsnC family	Chromosome (NC_003997)	NP_843838.1	241955
50964	C01	BA1884	2-dehydropantoate 2-reductase, putative	Chromosome (NC_003997)	NP_844298.1	246204
48934	C02	BA1895	cytidine deaminase	Chromosome (NC_003997)	NP_844306.1	246213
49172	C03	BA4756	hypothetical protein	Chromosome (NC_003997)	NP_846962.1	246223
49558	C04	BA4738	membrane protein, putative	Chromosome (NC_003997)	NP_846947.1	246233
50207	C05	BA1856	membrane protein, putative	Chromosome (NC_003997)	NP_844273.1	246253
47890	C06	BA3776	hypothetical protein	Chromosome (NC_003997)	NP_846032.1	241891
47946	C07	BA1393	hypothetical protein	Chromosome (NC_003997)	NP_843850.1	241899
48289	C08	BA3752	hypothetical protein	Chromosome (NC_003997)	NP_846012.1	241915
48495	C09	BA3783	hypothetical protein	Chromosome (NC_003997)	NP_846039.1	241925
51176	C10	BA1432	histidinol phosphatase, putative	Chromosome (NC_003997)	NP_843888.1	241936
51470	C11	BA3784	phage major capsid protein, putative	Chromosome (NC_003997)	NP_846040.1	241946
51652	C12	BA1424	histidyl-tRNA synthetase, putative	Chromosome (NC_003997)	NP_843881.1	241956
48597	D01	BA4758	thioredoxin	Chromosome (NC_003997)	NP_846964.1	246205
48964	D02	BA0535	potassium channel protein, putative	Chromosome (NC_003997)	NP_843070.1	246215
51351	D03	BA1855	hypothetical protein	Chromosome (NC_003997)	NP_844272.1	246224
49665	D04	BA4740	DNA-binding protein	Chromosome (NC_003997)	NP_846949.1	246235
50238	D05	BA4239	hypothetical protein	Chromosome (NC_003997)	NP_846474.1	246255
49988	D06	BA3753	site-specific recombinase, resolvase family	Chromosome (NC_003997)	NP_846013.1	241892
50312	D07	BA1395	hypothetical protein	Chromosome (NC_003997)	NP_843852.1	241900
48290	D08	BA3764	hypothetical protein	Chromosome (NC_003997)	NP_846023.1	241917
48515	D09	BA3718	hypothetical protein	Chromosome (NC_003997)	NP_845981.1	241927
48769	D10	BA3780	hypothetical protein	Chromosome (NC_003997)	NP_846036.1	241937
51476	D11	BA1388	ditB protein	Chromosome (NC_003997)	NP_843846.1	241948

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49409	D12	BA1418	acetolactate synthase, small subunit	Chromosome (NC_003997)	NP_843875.1	241961
48669	E01	BA4248	transcriptional regulator, PadR family	Chromosome (NC_003997)	NP_846483.1	246207
51168	E02	BA0532	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843067.1	246216
49185	E03	BA0536	bacterioferritin comigratory protein	Chromosome (NC_003997)	NP_843071.1	246225
49844	E04	BA4243	hypothetical protein	Chromosome (NC_003997)	NP_846478.1	246237
47736	E05	BA3762	hypothetical protein	Chromosome (NC_003997)	NP_846021.1	241881
47885	E06	BA1396	hypothetical protein	Chromosome (NC_003997)	NP_843853.1	241893
47981	E07	BA1379	hypothetical protein	Chromosome (NC_003997)	NP_843837.1	241901
50835	E08	BA1376	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843834.2	241918
50950	E09	BA3750	phosphonate ABC transporter, phosphonate-binding protein, putat	Chromosome (NC_003997)	NP_846011.1	241928
51285	E10	BA1421	3-isopropylmalate dehydrogenase	Chromosome (NC_003997)	NP_843878.1	241938
49067	E11	BA1381	hypothetical protein	Chromosome (NC_003997)	NP_843839.1	241949
49541	E12	BA3756	hypothetical protein	Chromosome (NC_003997)	NP_846016.1	241963
51010	F01	BA1881	rhodanese-like domain protein	Chromosome (NC_003997)	NP_844296.1	246208
49081	F02	BA4743	rrf2 family protein	Chromosome (NC_003997)	NP_846952.1	246217
49326	F03	BA4241	mutT/nudix family protein	Chromosome (NC_003997)	NP_846476.1	246227
49875	F04	BA4755	succinate dehydrogenase, cytochrome b558 subunit	Chromosome (NC_003997)	NP_846961.1	246241
49725	F05	BA3785	prophage LambdaBa01, prohead protease, putative	Chromosome (NC_003997)	NP_846041.1	241882
50133	F06	BA1374	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843832.1	241894
50486	F07	BA1403	bacitracin resistance protein	Chromosome (NC_003997)	NP_843860.2	241904
48281	F08	BA1387	D-alanyl carrier protein	Chromosome (NC_003997)	NP_843845.1	241919
48530	F09	BA3781	hypothetical protein	Chromosome (NC_003997)	NP_846037.1	241929
48844	F10	BA3777	hypothetical protein	Chromosome (NC_003997)	NP_846033.1	241939
51480	F11	BA1392	N-acyl-L-amino acid amidohydrolase	Chromosome (NC_003997)	NP_843849.1	241950
51862	F12	BA1422	3-isopropylmalate dehydratase, large subunit	Chromosome (NC_003997)	NP_843879.1	241964
48785	G01	BA1864	hypothetical protein	Chromosome (NC_003997)	NP_844281.1	246209
51321	G02	BA1866	hypothetical protein	Chromosome (NC_003997)	NP_844283.1	246218
51463	G03	BA1887	enterotoxin	Chromosome (NC_003997)	NP_844299.1	246228
50021	G04	BA4245	membrane protein, putative	Chromosome (NC_003997)	NP_846480.1	246245
49758	G05	BA3778	prophage LambdaBa01, major tail protein, putative	Chromosome (NC_003997)	NP_846034.1	241884
47907	G06	BA1433	hypothetical protein	Chromosome (NC_003997)	NP_843889.1	241895
48182	G07	BA3746	hypothetical protein	Chromosome (NC_003997)	NP_846007.1	241907
50817	G08	BA1416	branched-chain amino acid aminotransferase	Chromosome (NC_003997)	NP_843873.1	241920
48529	G09	BA3763	hypothetical protein	Chromosome (NC_003997)	NP_846022.1	241931
51306	G10	BA3760	prophage LambdaBa01, TPR domain protein, putative	Chromosome (NC_003997)	NP_846019.1	241940
49075	G11	BA1405	hypothetical protein	Chromosome (NC_003997)	NP_843862.1	241951
49587	G12	BA1382	isochorismatase family protein	Chromosome (NC_003997)	NP_843840.1	241965

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51033	H01	BA4741	membrane protein, putative	Chromosome (NC_003997)	NP_846950.1	246210
49141	H02	BA1863	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844280.1	246219
51500	H03	BA4240	acetyl-CoA acetyltransferase	Chromosome (NC_003997)	NP_846475.1	246230
50023	H04	BA4742	aquaporin Z	Chromosome (NC_003997)	NP_846951.1	246247
47840	H05	BA1399	hypothetical protein	Chromosome (NC_003997)	NP_843856.1	241885
50145	H06	BA1435	CDP-diacylglycerol--serine O-phosphatidyltransferase, putative	Chromosome (NC_003997)	NP_843891.1	241896
48234	H07	BA3761	hypothetical protein	Chromosome (NC_003997)	NP_846020.1	241911
48437	H08	BA3769	prophage LambdaBa01, transcriptional regulator, AbrB family	Chromosome (NC_003997)	NP_846027.1	241921
51162	H09	BA1419	ketol-acid reductoisomerase	Chromosome (NC_003997)	NP_843876.1	241932
48932	H10	BA1406	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843863.1	241941
51496	H11	BA1386	dltD protein	Chromosome (NC_003997)	NP_843844.1	241952

Table 13: *Bacillus anthracis* Gateway® Clone, Plate 13 (QMG002854), NR-19737¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47707	A02	BA5018	hypothetical protein	Chromosome (NC_003997)	NP_847212.1	244367
47852	A03	BA5456	hypothetical protein	Chromosome (NC_003997)	NP_847624.1	244377
50881	A04	BA2672	transporter, EamA family	Chromosome (NC_003997)	NP_845031.1	244386
51179	A05	BA2678	hypothetical protein	Chromosome (NC_003997)	NP_845037.1	244398
48553	A06	BA2105	hypothetical protein	Chromosome (NC_003997)	NP_844504.1	244409
48892	A07	BA5022	ATP synthase protein I, putative	Chromosome (NC_003997)	NP_847215.1	244423
49429	A08	BA2685	mutT/nudix family protein	Chromosome (NC_003997)	NP_845042.1	244435
51823	A09	BA2673	chitinase	Chromosome (NC_003997)	NP_845032.1	244446
47968	A10	BA4877	proA domain protein	Chromosome (NC_003997)	NP_847078.1	245542
48195	A11	BA2539	hypothetical protein	Chromosome (NC_003997)	NP_844907.1	245556
48704	A12	BA0673	hypothetical protein	Chromosome (NC_003997)	NP_843200.1	245565
49588	B01	BA1404	hypothetical protein	Chromosome (NC_003997)	NP_843861.1	241967
47799	B02	BA2674	hypothetical protein	Chromosome (NC_003997)	NP_845033.1	244369
50630	B03	BA5003	ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_847197.1	244378
48153	B04	BA2104	hypothetical protein	Chromosome (NC_003997)	NP_844503.1	244387
48394	B05	BA2677	hypothetical protein	Chromosome (NC_003997)	NP_845036.1	244399
48617	B06	BA0791	PTS system, cellobiose-specific IIA component	Chromosome (NC_003997)	NP_843310.1	244411
49121	B07	BA0782	hypothetical protein	Chromosome (NC_003997)	NP_843303.1	244425
51735	B08	BA2664	permease, putative	Chromosome (NC_003997)	NP_845024.1	244436
49884	B09	BA2106	hypothetical protein	Chromosome (NC_003997)	NP_844505.1	244449
50470	B10	BA0647	hypothetical protein	Chromosome (NC_003997)	NP_843178.1	245543
50848	B11	BA0657	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_843187.1	245557
51038	B12	BA0658	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_843188.1	245566
49662	C01	BA3715	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_845978.1	241969
50377	C02	BA0781	membrane protein, putative	Chromosome (NC_003997)	NP_843302.1	244370
47970	C03	BA5016	hypothetical protein	Chromosome (NC_003997)	NP_847210.1	244379
50900	C04	BA5027	hypothetical protein	Chromosome (NC_003997)	NP_847220.1	244388

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51203	C05	BA4998	membrane protein, putative	Chromosome (NC_003997)	NP_847192.1	244400
48621	C06	BA2103	hypothetical protein	Chromosome (NC_003997)	NP_844502.1	244413
51555	C07	BA0787	major facilitator family transporter	Chromosome (NC_003997)	NP_843307.1	244426
49436	C08	BA5010	bacterial transferase family protein	Chromosome (NC_003997)	NP_847204.1	244437
50084	C09	BA5004	membrane protein, putative	Chromosome (NC_003997)	NP_847198.1	244453
48088	C10	BA2525	hypothetical protein	Chromosome (NC_003997)	NP_844894.1	245546
48338	C11	BA2540	hypothetical protein	Chromosome (NC_003997)	NP_844908.1	245558
48715	C12	BA4878	hypothetical protein	Chromosome (NC_003997)	NP_847079.1	245567
49703	D01	BA1423	3-isopropylmalate dehydratase, small subunit	Chromosome (NC_003997)	NP_843880.1	241971
47814	D02	BA2679	hypothetical protein	Chromosome (NC_003997)	NP_845038.1	244371
50713	D03	BA2668	glycerophosphoryl diester phosphodiesterase, putative	Chromosome (NC_003997)	NP_845028.1	244380
48171	D04	BA0805	cotJA protein	Chromosome (NC_003997)	NP_843323.1	244389
51213	D05	BA5461	cytochrome d ubiquinol oxidase, subunit II, putative	Chromosome (NC_003997)	NP_847629.1	244402
51413	D06	BA2684	DNA polymerase III, beta subunit	Chromosome (NC_003997)	NP_845041.1	244414
49144	D07	BA2683	mutT/nudix family protein	Chromosome (NC_003997)	NP_845040.1	244427
51746	D08	BA0793	PTS system, cellobiose-specific IIC component	Chromosome (NC_003997)	NP_843312.1	244438
50139	D09	BA2665	hypothetical protein	Chromosome (NC_003997)	NP_845025.1	244455
50553	D10	BA0683	undecaprenol kinase family protein	Chromosome (NC_003997)	NP_843210.1	245547
50910	D11	BA0669	ribose ABC transporter, ribose-binding protein	Chromosome (NC_003997)	NP_843197.1	245560
51046	D12	BA0664	ribose operon repressor	Chromosome (NC_003997)	NP_843192.1	245568
49720	E01	BA1427	imidazoleglycerol-phosphate dehydratase	Chromosome (NC_003997)	NP_843884.1	241973
50442	E02	BA0807	hypothetical protein	Chromosome (NC_003997)	NP_843325.1	244372
47969	E03	BA5015	hypothetical protein	Chromosome (NC_003997)	NP_847209.1	244381
48209	E04	BA5023	hypothetical protein	Chromosome (NC_003997)	NP_847216.1	244391
48444	E05	BA0794	hypothetical protein	Chromosome (NC_003997)	NP_843313.1	244403
51440	E06	BA5012	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_847206.1	244416
51580	E07	BA2680	oxalate:formate antiporter, putative	Chromosome (NC_003997)	NP_845039.1	244428
49498	E08	BA2670	hypothetical protein	Chromosome (NC_003997)	NP_845030.1	244439
47741	E09	BA0655	hypothetical protein	Chromosome (NC_003997)	NP_843185.1	245536
48087	E10	BA2523	DNA-binding protein	Chromosome (NC_003997)	NP_844892.1	245548
48562	E11	BA4871	DNA-binding protein	Chromosome (NC_003997)	NP_847072.1	245561
48718	E12	BA0676	hypothetical protein	Chromosome (NC_003997)	NP_843203.1	245569
47629	F01	BA2660	hypothetical protein	Chromosome (NC_003997)	NP_845021.1	244363
47851	F02	BA4999	hypothetical protein	Chromosome (NC_003997)	NP_847193.1	244373
48076	F03	BA5020	hypothetical protein	Chromosome (NC_003997)	NP_847214.1	244383
48226	F04	BA0778	hypothetical protein	Chromosome (NC_003997)	NP_843300.1	244393
48548	F05	BA0792	PTS system, cellobiose-specific IIB component	Chromosome (NC_003997)	NP_843311.1	244405
48699	F06	BA5458	transposase, IS605 family, OrfA	Chromosome (NC_003997)	NP_847626.1	244419
49157	F07	BA2110	hypothetical protein	Chromosome (NC_003997)	NP_844508.1	244429

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51756	F08	BA0802	branched-chain amino acid transport system II carrier protein	Chromosome (NC_003997)	NP_843320.1	244440
50287	F09	BA2557	hypothetical protein	Chromosome (NC_003997)	NP_844925.1	245537
50652	F10	BA4902	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_847101.1	245551
50909	F11	BA0659	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843189.1	245562
51109	F12	BA4889	hypothetical protein	Chromosome (NC_003997)	NP_847089.1	245570
50262	G01	BA0800	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843319.1	244364
50522	G02	BA2667	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845027.1	244374
50855	G03	BA5024	transporter, EamA family	Chromosome (NC_003997)	NP_847217.1	244384
51014	G04	BA5001	conserved hypothetical protein TIGR01212	Chromosome (NC_003997)	NP_847195.1	244394
48557	G05	BA2659	hypothetical protein	Chromosome (NC_003997)	NP_845020.1	244407
48779	G06	BA0806	hypothetical protein	Chromosome (NC_003997)	NP_843324.1	244421
51597	G07	BA5028	sensor histidine kinase, putative	Chromosome (NC_003997)	NP_847221.1	244430
49648	G08	BA0803	cotJC protein	Chromosome (NC_003997)	NP_843321.1	244443
47831	G09	BA2544	hypothetical protein	Chromosome (NC_003997)	NP_844912.1	245538
50674	G10	BA0677	phospholipase C	Chromosome (NC_003997)	NP_843204.1	245553
48652	G11	BA2554	hypothetical protein	Chromosome (NC_003997)	NP_844922.1	245563
48929	G12	BA0666	ribose ABC transporter protein	Chromosome (NC_003997)	NP_843194.1	245573
47668	H01	BA2666	hypothetical protein	Chromosome (NC_003997)	NP_845026.1	244365
47853	H02	BA5459	hypothetical protein	Chromosome (NC_003997)	NP_847627.1	244375
48121	H03	BA5026	hypothetical protein	Chromosome (NC_003997)	NP_847219.1	244385
48386	H04	BA5000	hypothetical protein	Chromosome (NC_003997)	NP_847194.1	244397
51320	H05	BA0789	hypothetical protein	Chromosome (NC_003997)	NP_843308.1	244408
51550	H06	BA0783	transcription antiterminator, LytR family	Chromosome (NC_003997)	NP_843304.1	244422
49417	H07	BA5014	molybdenum cofactor biosynthesis protein B, putative	Chromosome (NC_003997)	NP_847208.1	244433
49666	H08	BA5002	hypothetical protein	Chromosome (NC_003997)	NP_847196.1	244445
50477	H09	BA2551	enoyl-CoA hydratase/isomerase family protein	Chromosome (NC_003997)	NP_844919.1	245541
48154	H10	BA2549	hypothetical protein	Chromosome (NC_003997)	NP_844917.1	245554
50995	H11	BA0648	hypothetical protein	Chromosome (NC_003997)	NP_843179.1	245564

Table 14: *Bacillus anthracis* Gateway® Clone, Plate 14 (QMG002855), NR-19738¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48880	A02	BA5393	membrane protein, putative	Chromosome (NC_003997)	NP_847566.1	242918
48747	A03	BA3525	hypothetical protein	Chromosome (NC_003997)	NP_845803.1	242904
50696	A04	BA3536	phenazine biosynthesis protein, PhzF family	Chromosome (NC_003997)	NP_845813.1	242893
48304	A05	BA1099	hypothetical protein	Chromosome (NC_003997)	NP_843592.1	242884
48173	A06	BA1144	spore germination protein GerPF	Chromosome (NC_003997)	NP_843628.1	242874
49992	A07	BA1129	S-layer protein, putative	Chromosome (NC_003997)	NP_843614.1	242863

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47729	A08	BA3496	hypothetical protein	Chromosome (NC_003997)	NP_845776.1	242848
49952	A09	BA0670	transaldolase, putative	Chromosome (NC_003997)	NP_843198.1	245612
51751	A10	BA0680	oxidoreductase, FAD-binding	Chromosome (NC_003997)	NP_843207.1	245601
49204	A11	BA2558	hypothetical protein	Chromosome (NC_003997)	NP_844926.1	245590
51439	A12	BA4900	aminotransferase, class V	Chromosome (NC_003997)	NP_847099.1	245581
49173	B01	BA5394	hypothetical protein	Chromosome (NC_003997)	NP_847567.1	242928
48877	B02	BA3523	hypothetical protein	Chromosome (NC_003997)	NP_845801.1	242916
51067	B03	BA1111	HD domain protein	Chromosome (NC_003997)	NP_843598.1	242903
48480	B04	BA1143	hypothetical protein	Chromosome (NC_003997)	NP_843627.1	242892
50384	B05	BA3535	membrane protein, putative	Chromosome (NC_003997)	NP_845812.1	242883
48125	B06	BA1148	spore germination protein GerPB	Chromosome (NC_003997)	NP_843632.1	242872
47877	B07	BA1103	hypothetical protein	Chromosome (NC_003997)	NP_843594.1	242862
49529	B08	BA3530	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845807.1	242847
49942	B09	BA0642	amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_843173.1	245611
49473	B10	BA2555	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844923.1	245600
51486	B11	BA0674	multidrug resistance protein, putative	Chromosome (NC_003997)	NP_843201.1	245589
49042	B12	BA0654	universal stress protein family	Chromosome (NC_003997)	NP_843184.1	245580
49085	C01	BA5398	lipoprotein, putative	Chromosome (NC_003997)	NP_847571.1	242926
48810	C02	BA1155	hypothetical protein	Chromosome (NC_003997)	NP_843637.1	242912
48712	C03	BA3494	hypothetical protein	Chromosome (NC_003997)	NP_845774.1	242902
50687	C04	BA1120	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_843606.1	242891
50367	C05	BA3493	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845773.1	242881
48111	C06	BA1135	cold shock protein CspA	Chromosome (NC_003997)	NP_843619.1	242870
47865	C07	BA3521	hypothetical protein	Chromosome (NC_003997)	NP_845799.1	242858
47669	C08	BA3499	hypothetical protein	Chromosome (NC_003997)	NP_845779.1	242846
51941	C09	BA0653	sulfate permease family protein	Chromosome (NC_003997)	NP_843183.1	245610
49462	C10	BA0649	dihydrofolate reductase family protein	Chromosome (NC_003997)	NP_843180.1	245598
49099	C11	BA4887	mutT/nudix family protein	Chromosome (NC_003997)	NP_847087.1	245588
51425	C12	BA4873	alanine dehydrogenase	Chromosome (NC_003997)	NP_847074.1	245579
49066	D01	BA1090	lipoprotein, putative	Chromosome (NC_003997)	NP_843583.1	242924
51221	D02	BA3498	hypothetical protein	Chromosome (NC_003997)	NP_845778.1	242911
50924	D03	BA5392	HPr(Ser) kinase/phosphatase	Chromosome (NC_003997)	NP_847565.1	242901
48468	D04	BA1153	hypothetical protein	Chromosome (NC_003997)	NP_843635.1	242890
48220	D05	BA3520	hypothetical protein	Chromosome (NC_003997)	NP_845798.1	242880
50118	D06	BA3510	cyclic nucleotide-binding domain protein	Chromosome (NC_003997)	NP_845790.1	242869
47768	D07	BA1100	hypothetical protein	Chromosome (NC_003997)	NP_843593.1	242856
50259	D08	BA2526	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_844895.1	245624
51909	D09	BA0643	amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_843174.1	245608
49394	D10	BA2534	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844902.1	245596
49089	D11	BA0645	HIT family protein	Chromosome (NC_003997)	NP_843176.1	245586
48969	D12	BA2527	hypothetical protein	Chromosome (NC_003997)	NP_844896.1	245578
49049	E01	BA3511	membrane protein, putative	Chromosome (NC_003997)	NP_845791.1	242922

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48752	E02	BA3509	hypothetical protein	Chromosome (NC_003997)	NP_845789.1	242910
48688	E03	BA1096	hypothetical protein	Chromosome (NC_003997)	NP_843589.1	242900
50563	E04	BA5391	prolipoprotein diacylglyceryl transferase	Chromosome (NC_003997)	NP_847564.1	242889
50333	E05	BA3514	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_845794.1	242879
48051	E06	BA1146	spore germination protein GerPD	Chromosome (NC_003997)	NP_843630.1	242868
49702	E07	BA1138	competence transcription factor, putative	Chromosome (NC_003997)	NP_843622.1	242855
50130	E08	BA4876	membrane protein, putative	Chromosome (NC_003997)	NP_847077.1	245622
49918	E09	BA4886	hypothetical protein	Chromosome (NC_003997)	NP_847086.1	245607
49377	E10	BA4890	thiol peroxidase	Chromosome (NC_003997)	NP_847090.1	245594
51457	E11	BA2560	sensor histidine kinase	Chromosome (NC_003997)	NP_844928.1	245585
51261	E12	BA0675	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_843202.1	245577
51534	F01	BA1154	ornithine aminotransferase	Chromosome (NC_003997)	NP_843636.1	242921
51181	F02	BA3533	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_845810.1	242909
48662	F03	BA1121	hypothetical protein	Chromosome (NC_003997)	NP_843607.1	242898
48450	F04	BA3522	hypothetical protein	Chromosome (NC_003997)	NP_845800.1	242888
48203	F05	BA1149	spore germination protein GerPA	Chromosome (NC_003997)	NP_843633.1	242878
50037	F06	BA1127	S-layer protein, putative	Chromosome (NC_003997)	NP_843613.1	242867
47742	F07	BA1092	hypothetical protein	Chromosome (NC_003997)	NP_843585.1	242852
50059	F08	BA0651	DNA-binding response regulator	Chromosome (NC_003997)	NP_843182.1	245620
49807	F09	BA2530	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844898.1	245605
51557	F10	BA2537	hypothetical protein	Chromosome (NC_003997)	NP_844905.1	245593
49082	F11	BA4895	hypothetical protein	Chromosome (NC_003997)	NP_847095.1	245584
48950	F12	BA2536	spore coat protein, putative	Chromosome (NC_003997)	NP_844904.1	245576
48898	G01	BA1145	spore germination protein GerPE	Chromosome (NC_003997)	NP_843629.1	242920
51099	G02	BA1089	lipote-protein ligase A, putative	Chromosome (NC_003997)	NP_843582.1	242907
50834	G03	BA1114	transcriptional regulator, AraC family	Chromosome (NC_003997)	NP_843601.1	242897
50443	G04	BA3531	iron compound ABC transporter, iron compound-binding protein, putative	Chromosome (NC_003997)	NP_845808.1	242887
50322	G05	BA3492	ABC transporter, efflux permease protein	Chromosome (NC_003997)	NP_845772.1	242877
50010	G06	BA3524	hypothetical protein	Chromosome (NC_003997)	NP_845802.1	242865
47728	G07	BA1097	hypothetical protein	Chromosome (NC_003997)	NP_843590.1	242850
49982	G08	BA0641	amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_843172.1	245616
49620	G09	BA2556	hypothetical protein	Chromosome (NC_003997)	NP_844924.1	245604
49212	G10	BA4875	universal stress protein family	Chromosome (NC_003997)	NP_847076.1	245592
51448	G11	BA0681	membrane protein, putative	Chromosome (NC_003997)	NP_843208.1	245583
48940	G12	BA4891	hypothetical protein	Chromosome (NC_003997)	NP_847091.1	245575
51460	H01	BA5397	transposase, IS605 family	Chromosome (NC_003997)	NP_847570.1	242919

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51066	H02	BA1086	sugar-binding transcriptional regulator, LacI family	Chromosome (NC_003997)	NP_843579.1	242905
48522	H03	BA1122	hypothetical protein	Chromosome (NC_003997)	NP_843608.1	242894
48392	H04	BA1109	hypothetical protein	Chromosome (NC_003997)	NP_843597.1	242886
48191	H05	BA1117	hypothetical protein	Chromosome (NC_003997)	NP_843603.1	242876
47883	H06	BA1087	hypothetical protein	Chromosome (NC_003997)	NP_843580.1	242864
49586	H07	BA1156	hypothetical protein	Chromosome (NC_003997)	NP_843638.1	242849
49975	H08	BA2543	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844911.1	245614
51788	H09	BA2548	acetyl-CoA carboxylase, biotin carboxylase, putative	Chromosome (NC_003997)	NP_844916.1	245603
51545	H10	BA4888	acetate kinase	Chromosome (NC_003997)	NP_847088.1	245591
49061	H11	BA4872	hypothetical protein	Chromosome (NC_003997)	NP_847073.1	245582

Table 15: *Bacillus anthracis* Gateway® Clone, Plate 15 (QMG002856), NR-19739¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47709	A02	BA5333	hypothetical protein	Chromosome (NC_003997)	NP_847509.1	243916
50958	A03	BA2979	transcriptional regulator, putative	Chromosome (NC_003997)	NP_845313.1	243931
51102	A04	BA2976	ribose ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_845310.1	243941
49137	A05	BA5312	hypothetical protein	Chromosome (NC_003997)	NP_847488.1	243952
49312	A06	BA3002	hypothetical protein	Chromosome (NC_003997)	NP_845334.1	243962
49444	A07	BA2966	hypothetical protein	Chromosome (NC_003997)	NP_845300.1	243972
49690	A08	BA2970	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_845304.2	243980
50267	A09	BA3008	response regulator	Chromosome (NC_003997)	NP_845340.1	243998
47724	A10	BA0512	hypothetical protein	Chromosome (NC_003997)	NP_843048.1	246354
50507	A11	BA0485	prophage LambdaBa04, glycosyl hydrolase, family 25, putative	Chromosome (NC_003997)	NP_843024.1	246366
48127	A12	BA2344	hypothetical protein	Chromosome (NC_003997)	NP_844727.1	246377
49295	B01	BA3513	hypothetical protein	Chromosome (NC_003997)	NP_845793.1	242930
50562	B02	BA5307	hypothetical protein	Chromosome (NC_003997)	NP_847484.1	243919
48631	B03	BA5295	hypothetical protein	Chromosome (NC_003997)	NP_847473.1	243932
48749	B04	BA5346	hypothetical protein	Chromosome (NC_003997)	NP_847520.1	243942
49158	B05	BA2971	hypothetical protein	Chromosome (NC_003997)	NP_845305.1	243954
49335	B06	BA2990	hypothetical protein	Chromosome (NC_003997)	NP_845323.1	243964
51595	B07	BA2988	permease, putative	Chromosome (NC_003997)	NP_845321.1	243973
51769	B08	BA2967	hypothetical protein	Chromosome (NC_003997)	NP_845301.1	243981
50320	B09	BA2997	transcriptional regulator, lclR family	Chromosome (NC_003997)	NP_845329.1	244002
50128	B10	BA4736	DNA-binding response regulator	Chromosome (NC_003997)	NP_846945.1	246355
47897	B11	BA2362	hypothetical protein	Chromosome (NC_003997)	NP_844744.1	246367
51026	B12	BA0507	NAD-dependent epimerase/dehydratase family protein	Chromosome (NC_003997)	NP_843043.1	246378
49285	C01	BA1095	hypothetical protein	Chromosome (NC_003997)	NP_843588.1	242932
48078	C02	BA5342	hypothetical protein	Chromosome (NC_003997)	NP_847516.1	243920

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50990	C03	BA5338	inosine-uridine preferring nucleoside hydrolase family protein	Chromosome (NC_003997)	NP_847513.1	243933
48799	C04	BA2981	polyketide synthesis domain protein	Chromosome (NC_003997)	NP_845314.1	243944
51302	C05	BA2958	chorismate mutase/phospho-2-dehydro-3-deoxyheptonate aldolase	Chromosome (NC_003997)	NP_845293.1	243955
51514	C06	BA5298	nucleoside transporter, NupC family	Chromosome (NC_003997)	NP_847475.1	243965
49500	C07	BA2963	isochorismatase family protein	Chromosome (NC_003997)	NP_845297.1	243974
49640	C08	BA2951	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845286.1	243982
50327	C09	BA5304	hypothetical protein	Chromosome (NC_003997)	NP_847481.1	244004
47810	C10	BA0484	hypothetical protein	Chromosome (NC_003997)	NP_843023.1	246356
48048	C11	BA0504	hypothetical protein	Chromosome (NC_003997)	NP_843041.1	246370
48217	C12	BA2373	mbtH-like protein	Chromosome (NC_003997)	NP_844755.1	246379
49321	D01	BA1113	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_843600.1	242934
48178	D02	BA3003	DNA-binding protein	Chromosome (NC_003997)	NP_845335.1	243922
50997	D03	BA2977	ribose ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_845311.1	243935
51147	D04	BA5330	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_847506.1	243945
49213	D05	BA5340	hypothetical protein	Chromosome (NC_003997)	NP_847515.1	243956
49385	D06	BA2983	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845316.1	243966
51625	D07	BA2992	gamma-glutamyl phosphate reductase	Chromosome (NC_003997)	NP_845325.1	243975
49698	D08	BA5294	conserved hypothetical protein TIGR00730	Chromosome (NC_003997)	NP_847472.1	243986
47612	D09	BA2391	hypothetical protein	Chromosome (NC_003997)	NP_844769.1	246348
47856	D10	BA0498	hypothetical protein	Chromosome (NC_003997)	NP_843035.1	246358
50832	D11	BA4726	transporter, EamA family	Chromosome (NC_003997)	NP_846937.1	246371
51134	D12	BA4706	hypothetical protein	Chromosome (NC_003997)	NP_846919.1	246382
49380	E01	BA1085	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843578.1	242936
48263	E02	BA5336	preprotein translocase, SecG subunit	Chromosome (NC_003997)	NP_847512.1	243924
48694	E03	BA2985	hypothetical protein	Chromosome (NC_003997)	NP_845318.1	243936
48902	E04	BA3005	lipoprotein, putative	Chromosome (NC_003997)	NP_845337.1	243946
51353	E05	BA2993	glutamate 5-kinase	Chromosome (NC_003997)	NP_845326.1	243957
49405	E06	BA5296	ferritin	Chromosome (NC_003997)	NP_847474.1	243968
49512	E07	BA2964	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845298.1	243976
49706	E08	BA3009	hypothetical protein	Chromosome (NC_003997)	NP_845341.1	243988
49972	E09	BA0494	DNA-binding protein	Chromosome (NC_003997)	NP_843031.1	246349
47862	E10	BA2366	hypothetical protein	Chromosome (NC_003997)	NP_844748.1	246361
48101	E11	BA4711	hypothetical protein	Chromosome (NC_003997)	NP_846923.1	246372
48278	E12	BA0483	hypothetical protein	Chromosome (NC_003997)	NP_843022.1	246383
47618	F01	BA5306	hypothetical protein	Chromosome (NC_003997)	NP_847483.1	243912
48527	F02	BA2984	hypothetical protein	Chromosome (NC_003997)	NP_845317.1	243926
51011	F03	BA3000	fatty acid desaturase	Chromosome (NC_003997)	NP_845332.1	243937
51155	F04	BA5329	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_847505.1	243947

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51458	F05	BA2952	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845287.1	243959
51542	F06	BA2991	nucleoside transporter, NupC family	Chromosome (NC_003997)	NP_845324.1	243969
51648	F07	BA5314	tyrosyl-tRNA synthetase	Chromosome (NC_003997)	NP_847490.1	243977
49930	F08	BA5302	hypothetical protein	Chromosome (NC_003997)	NP_847479.1	243992
47686	F09	BA2365	hypothetical protein	Chromosome (NC_003997)	NP_844747.1	246350
50394	F10	BA2378	hypothetical protein	Chromosome (NC_003997)	NP_844760.1	246362
48086	F11	BA2361	hypothetical protein	Chromosome (NC_003997)	NP_844743.1	246374
51185	F12	BA4733	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846943.1	246384
47680	G01	BA2968	hypothetical protein	Chromosome (NC_003997)	NP_845302.1	243914
50893	G02	BA5315	UDP-N-acetylenolpyruvoylglucosamine reductase	Chromosome (NC_003997)	NP_847491.1	243927
48735	G03	BA5311	hypothetical protein	Chromosome (NC_003997)	NP_847487.1	243938
51246	G04	BA2975	sugar ABC transporter, sugar-binding protein, putative	Chromosome (NC_003997)	NP_845309.1	243949
49282	G05	BA5347	hypothetical protein	Chromosome (NC_003997)	NP_847521.1	243960
49437	G06	BA5339	hypothetical protein	Chromosome (NC_003997)	NP_847514.1	243970
49540	G07	BA3010	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845342.1	243978
50072	G08	BA5331	DNA-binding response regulator	Chromosome (NC_003997)	NP_847507.1	243994
50014	G09	BA4722	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_846933.1	246351
47866	G10	BA4709	hypothetical protein	Chromosome (NC_003997)	NP_846921.1	246363
50899	G11	BA4732	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_846942.1	246375
48284	G12	BA2358	hypothetical protein	Chromosome (NC_003997)	NP_844740.1	246385
50459	H01	BA2982	hypothetical protein	Chromosome (NC_003997)	NP_845315.1	243915
48526	H02	BA2965	hypothetical protein	Chromosome (NC_003997)	NP_845299.1	243928
51034	H03	BA5326	lipoprotein, putative	Chromosome (NC_003997)	NP_847502.1	243939
51253	H04	BA2973	hypothetical protein	Chromosome (NC_003997)	NP_845307.1	243951
51505	H05	BA5313	pyridine nucleotide-disulphide oxidoreductase	Chromosome (NC_003997)	NP_847489.1	243961
51589	H06	BA5309	major facilitator family transporter	Chromosome (NC_003997)	NP_847486.1	243971
51759	H07	BA3007	histidine kinase domain protein	Chromosome (NC_003997)	NP_845339.1	243979
50093	H08	BA3006	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_845338.1	243996
50096	H09	BA4720	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_846931.1	246353
50434	H10	BA2368	2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase	Chromosome (NC_003997)	NP_844750.1	246364
48106	H11	BA0488	hypothetical protein	Chromosome (NC_003997)	NP_843026.1	246376

Table 16: *Bacillus anthracis* Gateway® Clone, Plate 16 (QMG002857), NR-19740¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48484	A02	BA4723	hypothetical protein	Chromosome (NC_003997)	NP_846934.1	246393
51647	A03	BA4704	ATP-dependent Clp protease, ATP-binding subunit ClpX	Chromosome (NC_003997)	NP_846917.1	246404
49426	A04	BA2379	DNA polymerase, DinB family	Chromosome (NC_003997)	NP_844761.1	246415

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49819	A05	BA0495	hypothetical protein	Chromosome (NC_003997)	NP_843032.1	246427
47771	A06	BA2619	hypothetical protein	Chromosome (NC_003997)	NP_844981.1	244190
48023	A07	BA2621	hypothetical protein	Chromosome (NC_003997)	NP_844983.1	244202
48206	A08	BA2118	hypothetical protein	Chromosome (NC_003997)	NP_844516.1	244213
48349	A09	BA2166	hypothetical protein	Chromosome (NC_003997)	NP_844561.1	244223
48692	A10	BA2168	single-stranded DNA-binding protein	Chromosome (NC_003997)	NP_844562.1	244233
51387	A11	BA5509	UDP-N-acetylglucosamine 2-epimerase	Chromosome (NC_003997)	NP_847668.1	244242
51611	A12	BA2627	cytochrome P450	Chromosome (NC_003997)	NP_844989.1	244252
51219	B01	BA2392	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_844770.1	246386
51657	B02	BA2393	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_844771.2	246394
48703	B03	BA0497	hypothetical protein	Chromosome (NC_003997)	NP_843034.1	246405
51827	B04	BA2381	sodium/alanine symporter family protein	Chromosome (NC_003997)	NP_844763.1	246416
49829	B05	BA4710	hypothetical protein	Chromosome (NC_003997)	NP_846922.1	246428
49899	B06	BA2629	acetyltransferase, CYSE/LACA/LPXA/NODL family	Chromosome (NC_003997)	NP_844991.1	244191
50258	B07	BA2165	membrane protein, putative	Chromosome (NC_003997)	NP_844560.1	244203
50698	B08	BA4969	glucose uptake protein	Chromosome (NC_003997)	NP_847164.1	244214
50816	B09	BA5406	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_847579.1	244224
51153	B10	BA2625	hypothetical protein	Chromosome (NC_003997)	NP_844987.1	244234
48927	B11	BA5402	hypothetical protein	Chromosome (NC_003997)	NP_847575.1	244243
49093	B12	BA2173	hypothetical protein	Chromosome (NC_003997)	NP_844566.1	244253
48327	C01	BA4707	hypothetical protein	Chromosome (NC_003997)	NP_846920.1	246387
48490	C02	BA2347	hypothetical protein	Chromosome (NC_003997)	NP_844730.1	246395
51684	C03	BA4705	trigger factor	Chromosome (NC_003997)	NP_846918.1	246406
49538	C04	BA2376	hypothetical protein	Chromosome (NC_003997)	NP_844758.1	246417
49852	C05	BA2385	hypothetical protein	Chromosome (NC_003997)	NP_844766.1	246430
49955	C06	BA2163	HD domain protein	Chromosome (NC_003997)	NP_844558.1	244193
50314	C07	BA2162	hypothetical protein	Chromosome (NC_003997)	NP_844557.1	244205
50717	C08	BA0748	oxidoreductase, short chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_843273.1	244216
48432	C09	BA2154	stage V sporulation protein S	Chromosome (NC_003997)	NP_844552.1	244225
51172	C10	BA4976	molybdopterin biosynthesis protein MoeB, putative	Chromosome (NC_003997)	NP_847171.1	244236
51406	C11	BA2171	PBS lyase HEAT-like repeat domain protein	Chromosome (NC_003997)	NP_844564.1	244244
51695	C12	BA5512	UDP-N-acetyl-D-mannosamine dehydrogenase	Chromosome (NC_003997)	NP_847671.1	244254
51442	D01	BA2346	major facilitator family transporter	Chromosome (NC_003997)	NP_844729.1	246388
51541	D02	BA2380	alkaline serine protease, subtilase family	Chromosome (NC_003997)	NP_844762.1	246396
51685	D03	BA0493	acetylorntine deacetylase, putative	Chromosome (NC_003997)	NP_843030.1	246408
49598	D04	BA0513	hypothetical protein	Chromosome (NC_003997)	NP_843049.1	246419

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47607	D05	BA2616	hypothetical protein	Chromosome (NC_003997)	YP_003329040.1	244182
47861	D06	BA2150	hypothetical protein	Chromosome (NC_003997)	NP_844548.1	244194
50372	D07	BA5400	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_847573.1	244207
48261	D08	BA4971	molybdopterin converting factor, subunit 1	Chromosome (NC_003997)	NP_847166.1	244217
50880	D09	BA2610	D-alanine--D-alanine ligase	Chromosome (NC_003997)	NP_844972.1	244226
48763	D10	BA2145	nitrite reductase [NAD(P)H], small subunit	Chromosome (NC_003997)	NP_844543.1	244237
48970	D11	BA2626	hypothetical protein	Chromosome (NC_003997)	NP_844988.1	244245
51693	D12	BA2628	permease, putative	Chromosome (NC_003997)	NP_844990.1	244256
48421	E01	BA2377	DNA-binding protein HU	Chromosome (NC_003997)	NP_844759.1	246389
51556	E02	BA2369	isochorismate synthase Dhbc	Chromosome (NC_003997)	NP_844751.1	246398
51728	E03	BA4689	folylpolyglutamate synthase	Chromosome (NC_003997)	NP_846902.1	246410
49673	E04	BA2383	hypothetical protein	Chromosome (NC_003997)	NP_844764.1	246421
47644	E05	BA2157	hypothetical protein	Chromosome (NC_003997)	NP_844554.1	244184
50081	E06	BA2115	hypothetical protein	Chromosome (NC_003997)	NP_844513.1	244195
48155	E07	BA2614	hypothetical protein	Chromosome (NC_003997)	NP_844976.1	244208
50752	E08	BA5472	D-amino acid aminotransferase	Chromosome (NC_003997)	NP_847638.1	244218
48604	E09	BA2176	hypothetical protein	Chromosome (NC_003997)	NP_844569.1	244229
51204	E10	BA5405	membrane protein, putative	Chromosome (NC_003997)	NP_847578.1	244238
51523	E11	BA5412	membrane protein, putative	Chromosome (NC_003997)	NP_847584.1	244246
51707	E12	BA4974	molybdopterin biosynthesis protein MoeA	Chromosome (NC_003997)	NP_847169.1	244258
51456	F01	BA2359	exonuclease SbcD, putative	Chromosome (NC_003997)	NP_844741.1	246390
48521	F02	BA0471	hypothetical protein	Chromosome (NC_003997)	NP_843010.1	246399
49026	F03	BA4700	organic hydroperoxide resistance protein	Chromosome (NC_003997)	NP_846913.1	246411
49773	F04	BA4701	GTP-binding protein	Chromosome (NC_003997)	NP_846914.1	246423
49651	F05	BA2148	hypothetical protein	Chromosome (NC_003997)	NP_844546.1	244185
47898	F06	BA2613	hypothetical protein	Chromosome (NC_003997)	NP_844975.1	244198
50433	F07	BA2174	hypothetical protein	Chromosome (NC_003997)	NP_844567.1	244209
48266	F08	BA2151	hypothetical protein	Chromosome (NC_003997)	NP_844549.1	244219
51050	F09	BA2117	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_844515.1	244230
48815	F10	BA5407	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_847580.1	244239
49019	F11	BA2622	hypothetical protein	Chromosome (NC_003997)	NP_844984.1	244247
49237	F12	BA4972	molybdopterin converting factor, subunit 2	Chromosome (NC_003997)	NP_847167.1	244261
48414	G01	BA0470	prophage LambdaBa04, DNA packaging protein, putative	Chromosome (NC_003997)	NP_843009.1	246391
48535	G02	BA0486	hypothetical protein	Chromosome (NC_003997)	NP_843025.1	246401
49387	G03	BA4713	phosphoesterase, putative	Chromosome (NC_003997)	NP_846925.1	246413
51981	G04	BA0501	PTS system, N-acetylglucosamine-specific IIBC component, putati	Chromosome (NC_003997)	NP_843038.1	246424
47745	G05	BA2615	hypothetical protein	Chromosome (NC_003997)	NP_844977.1	244186
47909	G06	BA2160	hypothetical protein	Chromosome (NC_003997)	NP_844556.1	244200
48192	G07	BA2177	hypothetical protein	Chromosome (NC_003997)	NP_844570.1	244211
48332	G08	BA0751	membrane protein, putative	Chromosome (NC_003997)	NP_843275.1	244221

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48635	G09	BA2159	hypothetical protein	Chromosome (NC_003997)	NP_844555.1	244231
51322	G10	BA2121	hypothetical protein	Chromosome (NC_003997)	NP_844519.2	244240
51586	G11	BA5475	nucleoside transporter, NupC family	Chromosome (NC_003997)	NP_847639.1	244248
49308	G12	BA2119	glutathione peroxidase	Chromosome (NC_003997)	NP_844517.1	244263
51474	H01	BA0511	hypothetical protein	Chromosome (NC_003997)	NP_843047.1	246392
51613	H02	BA0502	penicillin-binding protein, putative	Chromosome (NC_003997)	NP_843039.1	246402
51774	H03	BA4718	major facilitator family transporter	Chromosome (NC_003997)	NP_846930.1	246414
49817	H04	BA4714	HAM1 protein	Chromosome (NC_003997)	NP_846926.1	246425
49742	H05	BA2169	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844563.1	244187
50251	H06	BA5476	hypothetical protein	Chromosome (NC_003997)	NP_847640.1	244201
50640	H07	BA2152	N-acetyltransferase family protein	Chromosome (NC_003997)	NP_844550.1	244212
50796	H08	BA2122	hypothetical protein	Chromosome (NC_003997)	NP_844520.1	244222
51140	H09	BA2149	hypothetical protein	Chromosome (NC_003997)	NP_844547.1	244232
48885	H10	BA2172	hypothetical protein	Chromosome (NC_003997)	NP_844565.1	244241
49037	H11	BA4970	hypothetical protein	Chromosome (NC_003997)	NP_847165.1	244249

Table 17: *Bacillus anthracis* Gateway® Clone, Plate 17 (QMG002858), NR-19741¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47842	A02	BA2416	hypothetical protein	Chromosome (NC_003997)	NP_844793.1	245990
50381	A03	BA1953	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_844362.1	246001
48758	A04	BA0538	hypothetical protein	Chromosome (NC_003997)	NP_843073.1	246012
50883	A05	BA4318	loIS protein	Chromosome (NC_003997)	NP_846551.1	246023
51060	A06	BA4766	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_846972.1	246035
49427	A07	BA2412	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844789.1	246044
49792	A08	BA2401	hypothetical protein	Chromosome (NC_003997)	NP_844778.1	246060
49714	A09	BA5380	ATP-dependent Clp protease, proteolytic subunit ClpP	Chromosome (NC_003997)	NP_847553.1	247997
48255	A10	BA5350	hypothetical protein	Chromosome (NC_003997)	NP_847524.1	248012
50991	A11	BA5382	hypothetical protein	Chromosome (NC_003997)	NP_847555.1	248023
48464	A12	BA3504	hypothetical protein	Chromosome (NC_003997)	NP_845784.1	248034
49359	B01	BA2631	hypothetical protein	Chromosome (NC_003997)	NP_844993.1	244269
50241	B02	BA1958	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_844366.1	245993
48398	B03	BA4330	hypothetical protein	Chromosome (NC_003997)	NP_846563.1	246002
48765	B04	BA2403	hypothetical protein	Chromosome (NC_003997)	NP_844780.1	246014
49088	B05	BA0537	transcriptional regulator, Fur family	Chromosome (NC_003997)	NP_843072.1	246024
49280	B06	BA4323	DNA-binding protein, CopG family	Chromosome (NC_003997)	NP_846556.1	246036
49458	B07	BA4301	hypothetical protein	Chromosome (NC_003997)	NP_846534.1	246046

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51705	B08	BA4305	xanthine/uracil permease family protein	Chromosome (NC_003997)	NP_846538.1	246061
48018	B09	BA1123	hypothetical protein	Chromosome (NC_003997)	NP_843609.1	247998
50739	B10	BA5379	hypothetical protein	Chromosome (NC_003997)	NP_847552.1	248013
48323	B11	BA3507	hypothetical protein	Chromosome (NC_003997)	NP_845787.1	248024
48463	B12	BA3502	hypothetical protein	Chromosome (NC_003997)	NP_845782.1	248036
49448	C01	BA4973	molybdopterin-guanine dinucleotide biosynthesis protein MobB	Chromosome (NC_003997)	NP_847168.1	244271
47985	C02	BA2408	hypothetical protein	Chromosome (NC_003997)	NP_844785.1	245994
48447	C03	BA1947	hypothetical protein	Chromosome (NC_003997)	NP_844356.1	246004
50720	C04	BA2399	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_844776.1	246015
49132	C05	BA4295	anti-sigma F factor antagonist	Chromosome (NC_003997)	NP_846528.1	246026
51133	C06	BA4336	biotin synthetase	Chromosome (NC_003997)	NP_846569.1	246037
49510	C07	BA2398	lipoprotein, putative	Chromosome (NC_003997)	NP_844775.1	246048
49872	C08	BA4291	stage V sporulation protein AA	Chromosome (NC_003997)	NP_846524.1	246062
48060	C09	BA3505	hypothetical protein	Chromosome (NC_003997)	NP_845785.1	248000
48294	C10	BA5321	hypothetical protein	Chromosome (NC_003997)	NP_847497.1	248014
48329	C11	BA5381	phosphocarrier protein HPr	Chromosome (NC_003997)	NP_847554.1	248026
51217	C12	BA5370	gapA transcriptional regulator CggR	Chromosome (NC_003997)	NP_847543.1	248037
50104	D01	BA1955	DNA-binding response regulator	Chromosome (NC_003997)	NP_844363.1	245985
50273	D02	BA2395	zinc transporter family protein	Chromosome (NC_003997)	NP_844772.1	245995
48581	D03	BA1940	carboxymuconolactone decarboxylase family protein	Chromosome (NC_003997)	NP_844349.1	246006
48846	D04	BA4335	hypothetical protein	Chromosome (NC_003997)	NP_846568.1	246016
50911	D05	BA2411	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844788.1	246027
49317	D06	BA4327	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846560.1	246038
49568	D07	BA2419	hypothetical protein	Chromosome (NC_003997)	NP_844796.1	246050
49886	D08	BA2397	hypothetical protein	Chromosome (NC_003997)	NP_844774.1	246065
48122	D09	BA5352	hypothetical protein	Chromosome (NC_003997)	NP_847526.1	248002
50777	D10	BA5384	hypothetical protein	Chromosome (NC_003997)	NP_847557.1	248015
51009	D11	BA5387	thioredoxin reductase	Chromosome (NC_003997)	NP_847560.1	248027
48493	D12	BA3503	hypothetical protein	Chromosome (NC_003997)	NP_845783.1	248038
47647	E01	BA4292	hypothetical protein	Chromosome (NC_003997)	NP_846525.1	245986
50293	E02	BA4338	bioH protein, putative	Chromosome (NC_003997)	NP_846571.1	245997
48616	E03	BA0540	hypothetical protein	Chromosome (NC_003997)	NP_843075.1	246008
48986	E04	BA2404	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844781.1	246018
49142	E05	BA1941	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_844350.1	246028
51132	E06	BA4324	hydrolase, alpha/beta fold family, putative	Chromosome (NC_003997)	NP_846557.1	246039
49579	E07	BA2420	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844797.1	246052
51872	E08	BA2418	protoporphyrinogen oxidase	Chromosome (NC_003997)	NP_844795.1	246066
48134	E09	BA5373	hypothetical protein	Chromosome (NC_003997)	NP_847546.1	248006
48298	E10	BA3023	hypothetical protein	Chromosome (NC_003997)	NP_845354.1	248016
48373	E11	BA3021	hypothetical protein	Chromosome (NC_003997)	NP_845352.1	248028
48502	E12	BA3039	hypothetical protein	Chromosome (NC_003997)	NP_845370.1	248039
50196	F01	BA2410	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844787.1	245987
48113	F02	BA2422	cold shock protein CspA	Chromosome (NC_003997)	NP_844799.1	245998

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50587	F03	BA4308	purine nucleoside phosphorylase	Chromosome (NC_003997)	NP_846541.1	246009
50780	F04	BA2413	membrane protein, putative	Chromosome (NC_003997)	NP_844790.1	246019
49154	F05	BA1948	lipoprotein, putative	Chromosome (NC_003997)	NP_844357.1	246030
49324	F06	BA2402	hypothetical protein	Chromosome (NC_003997)	NP_844779.1	246040
49619	F07	BA2414	DNA-binding protein	Chromosome (NC_003997)	NP_844791.1	246054
49949	F08	BA4332	riboflavin synthase, alpha subunit	Chromosome (NC_003997)	NP_846565.1	246067
50538	F09	BA5386	hypothetical protein	Chromosome (NC_003997)	NP_847559.1	248007
48314	F10	BA5371	glutaredoxin family protein	Chromosome (NC_003997)	NP_847544.1	248018
51025	F11	BA5325	hypothetical protein	Chromosome (NC_003997)	NP_847501.1	248029
51248	F12	BA3508	hypothetical protein	Chromosome (NC_003997)	NP_845788.1	248041
47757	G01	BA4317	hypothetical protein	Chromosome (NC_003997)	NP_846550.1	245988
50357	G02	BA4294	RNA polymerase sigma-F factor	Chromosome (NC_003997)	NP_846527.1	245999
48748	G03	BA4296	anti-sigma F factor antagonist	Chromosome (NC_003997)	NP_846529.1	246010
49023	G04	BA4290	stage V sporulation protein AB	Chromosome (NC_003997)	NP_846523.1	246020
50985	G05	BA2415	hypothetical protein	Chromosome (NC_003997)	NP_844792.1	246031
51138	G06	BA1949	microcin immunity protein MccF	Chromosome (NC_003997)	NP_844358.1	246041
49732	G07	BA1957	hypothetical protein	Chromosome (NC_003997)	NP_844365.1	246056
49968	G08	BA2409	chloramphenicol acetyltransferase	Chromosome (NC_003997)	NP_844786.1	246069
48151	G09	BA1082	hypothetical protein	Chromosome (NC_003997)	NP_843575.1	248008
48313	G10	BA5351	hypothetical protein	Chromosome (NC_003997)	NP_847525.1	248020
48402	G11	BA5354	hypothetical protein	Chromosome (NC_003997)	NP_847528.1	248032
48606	G12	BA3015	hypothetical protein	Chromosome (NC_003997)	NP_845346.1	248042
50214	H01	BA0541	conserved hypothetical protein TIGR01033	Chromosome (NC_003997)	NP_843076.1	245989
48310	H02	BA4329	hypothetical protein	Chromosome (NC_003997)	NP_846562.1	246000
50694	H03	BA1950	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_844359.1	246011
50788	H04	BA0546	hypothetical protein	Chromosome (NC_003997)	NP_843081.1	246021
49223	H05	BA4334	riboflavin synthase, beta subunit	Chromosome (NC_003997)	NP_846567.1	246034
49351	H06	BA0542	mutT/nudix family protein	Chromosome (NC_003997)	NP_843077.1	246042
49779	H07	BA1951	hypothetical protein	Chromosome (NC_003997)	NP_844360.1	246058
47954	H08	BA5348	hypothetical protein	Chromosome (NC_003997)	NP_847522.1	247996
48168	H09	BA5349	hypothetical protein	Chromosome (NC_003997)	NP_847523.1	248010
48306	H10	BA3012	hypothetical protein	Chromosome (NC_003997)	NP_845344.1	248022
51156	H11	BA5369	glyceraldehyde 3-phosphate dehydrogenase	Chromosome (NC_003997)	NP_847542.1	248033

Table 18: *Bacillus anthracis* Gateway[®] Clone, Plate 18 (QMG002859), NR-19742¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48750	A02	BA5377	stage V sporulation protein AE	Chromosome (NC_003997)	NP_847550.1	248050
49011	A03	BA5319	crcB protein	Chromosome (NC_003997)	NP_847495.1	248060
49438	A04	BA5389	bacterial transferase hexapeptide domain protein	Chromosome (NC_003997)	NP_847562.1	248075
49993	A05	BA1764	hypothetical protein	Chromosome (NC_003997)	NP_844193.1	246875
50134	A06	BA1774	hypothetical protein	Chromosome (NC_003997)	NP_844200.1	246885

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50556	A07	BA1777	hypothetical protein	Chromosome (NC_003997)	NP_844203.1	246895
51041	A08	BA1759	transporter, EamA family	Chromosome (NC_003997)	NP_844189.1	246910
51202	A09	BA4136	PDZ domain protein	Chromosome (NC_003997)	NP_846375.1	246918
49189	A10	BA1810	hypothetical protein	Chromosome (NC_003997)	NP_844232.1	246929
51833	A11	BA0081	DNA repair protein RadA	Chromosome (NC_003997)	NP_842650.1	246941
50190	A12	BA4808	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_847011.1	245893
51247	B01	BA2989	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_845322.1	248043
48775	B02	BA5320	crcB protein	Chromosome (NC_003997)	NP_847496.1	248052
51744	B03	BA5372	RNA polymerase sigma-54 factor	Chromosome (NC_003997)	NP_847545.1	248061
49484	B04	BA3031	hypothetical protein	Chromosome (NC_003997)	NP_845362.1	248079
50015	B05	BA0088	serine O-acetyltransferase	Chromosome (NC_003997)	NP_842656.1	246877
48003	B06	BA1812	hypothetical protein	Chromosome (NC_003997)	NP_844234.1	246886
48308	B07	BA4133	hypothetical protein	Chromosome (NC_003997)	NP_846372.1	246896
48841	B08	BA1746	hypothetical protein	Chromosome (NC_003997)	NP_844179.1	246911
49013	B09	BA0418	general stress protein 26	Chromosome (NC_003997)	NP_842961.1	246919
49216	B10	BA0077	transcriptional regulator CtsR	Chromosome (NC_003997)	NP_842646.1	246931
49562	B11	BA0078	hypothetical protein	Chromosome (NC_003997)	NP_842647.1	246942
47621	B12	BA0549	hypothetical protein	Chromosome (NC_003997)	NP_843084.1	245894
48618	C01	BA1083	hypothetical protein	Chromosome (NC_003997)	NP_843576.1	248044
48889	C02	BA3035	hypothetical protein	Chromosome (NC_003997)	NP_845366.1	248054
49065	C03	BA1084	hypothetical protein	Chromosome (NC_003997)	NP_843577.1	248062
49521	C04	BA3014	hypothetical protein	Chromosome (NC_003997)	NP_845345.1	248081
47886	C05	BA1741	hypothetical protein	Chromosome (NC_003997)	NP_844174.1	246878
48027	C06	BA4169	hypothetical protein	Chromosome (NC_003997)	NP_846407.1	246888
50613	C07	BA4173	protein-glutamine gamma-glutamyltransferase	Chromosome (NC_003997)	NP_846411.1	246897
51054	C08	BA0075	TIM-barrel protein, putative, NifR3 family	Chromosome (NC_003997)	NP_842644.2	246912
51263	C09	BA1755	BNR repeat domain protein	Chromosome (NC_003997)	NP_844185.1	246920
49274	C10	BA0085	2C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	Chromosome (NC_003997)	NP_842654.1	246932
49644	C11	BA4140	methyltransferase, putative	Chromosome (NC_003997)	NP_846379.1	246943
50201	C12	BA4789	LPXTG-motif cell wall anchor domain protein, putative	Chromosome (NC_003997)	NP_846994.1	245895
51277	D01	BA5318	endonuclease/exonuclease/phosphatase family	Chromosome (NC_003997)	NP_847494.1	248045
51591	D02	BA3029	succinylornithine transaminase, putative	Chromosome (NC_003997)	NP_845360.1	248055
49214	D03	BA5385	mutT/nudix family protein	Chromosome (NC_003997)	NP_847558.1	248064
49641	D04	BA3040	nitroreductase family protein	Chromosome (NC_003997)	NP_845371.1	248083
50039	D05	BA1758	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_844188.1	246879
50379	D06	BA1770	hypothetical protein	Chromosome (NC_003997)	NP_844198.1	246889
50730	D07	BA0043	4-diphosphocytidyl-2C-methyl-D-erythritol kinase	Chromosome (NC_003997)	NP_842612.1	246903
48947	D08	BA1775	hypothetical protein	Chromosome (NC_003997)	NP_844201.1	246913
49046	D09	BA1768	hypothetical protein	Chromosome (NC_003997)	NP_844196.1	246921
49368	D10	BA0099	ribosomal protein L10	Chromosome (NC_003997)	NP_842667.1	246935
51867	D11	BA0089	cysteinyl-tRNA synthetase	Chromosome (NC_003997)	NP_842657.1	246944

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47730	D12	BA0586	hypothetical protein	Chromosome (NC_003997)	NP_843120.1	245896
48639	E01	BA3036	hypothetical protein	Chromosome (NC_003997)	NP_845367.1	248046
48888	E02	BA3011	glyoxalase family protein	Chromosome (NC_003997)	NP_845343.1	248056
49283	E03	BA5375	stage V sporulation protein AC	Chromosome (NC_003997)	NP_847548.1	248066
47634	E04	BA4635	hypothetical protein	Chromosome (NC_003997)	NP_846852.1	246870
47924	E05	BA1757	hypothetical protein	Chromosome (NC_003997)	NP_844187.1	246880
48105	E06	BA0074	DNA-binding protein	Chromosome (NC_003997)	NP_842643.1	246890
48736	E07	BA1748	hypothetical protein	Chromosome (NC_003997)	NP_844181.1	246906
51068	E08	BA1762	membrane protein, putative	Chromosome (NC_003997)	NP_844191.1	246914
51281	E09	BA0079	phosphotransferase domain protein	Chromosome (NC_003997)	NP_842648.1	246922
51643	E10	BA1737	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_844172.1	246937
49671	E11	BA1745	phosphoglycerate mutase family protein	Chromosome (NC_003997)	NP_844178.1	246947
50250	E12	BA4809	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_847012.1	245897
51371	F01	BA3037	hypothetical protein	Chromosome (NC_003997)	NP_845368.1	248047
51663	F02	BA1124	peptidase, M48 family	Chromosome (NC_003997)	NP_843610.1	248057
49328	F03	BA5374	lipoprotein, putative	Chromosome (NC_003997)	NP_847547.1	248067
49933	F04	BA1744	hypothetical protein	Chromosome (NC_003997)	NP_844177.1	246871
50074	F05	BA0084	2-C-methyl-D-erythritol 4-phosphate cytidyltransferase	Chromosome (NC_003997)	NP_842653.1	246881
50492	F06	BA4168	inositol monophosphatase family protein	Chromosome (NC_003997)	NP_846406.1	246891
48777	F07	BA0100	ribosomal protein L7/L12	Chromosome (NC_003997)	NP_842668.1	246907
48981	F08	BA0090	hypothetical protein	Chromosome (NC_003997)	NP_842658.1	246915
49053	F09	BA0097	ribosomal protein L11	Chromosome (NC_003997)	NP_842665.1	246923
49440	F10	BA0073	2-amino-4-hydroxy-6-hydroxymethylidihydropteridine pyrophosphokin	Chromosome (NC_003997)	NP_842642.1	246938
49871	F11	BA4170	hypothetical protein	Chromosome (NC_003997)	NP_846408.1	246953
47732	F12	BA2456	hypothetical protein	Chromosome (NC_003997)	NP_844832.1	245898
48659	G01	BA5357	hypothetical protein	Chromosome (NC_003997)	NP_847531.1	248048
48980	G02	BA5324	membrane protein, putative	Chromosome (NC_003997)	NP_847500.1	248058
49365	G03	BA5359	prophage LambdaBa03, prohead protease, putative	Chromosome (NC_003997)	NP_847533.1	248069
47641	G04	BA1773	hypothetical protein	Chromosome (NC_003997)	NP_844199.1	246872
47949	G05	BA1769	hypothetical protein	Chromosome (NC_003997)	NP_844197.1	246882
48216	G06	BA1807	hypothetical protein	Chromosome (NC_003997)	NP_844230.1	246892
50927	G07	BA1803	response regulator	Chromosome (NC_003997)	NP_844227.1	246908
51082	G08	BA1808	aspartate--ammonia ligase	Chromosome (NC_003997)	NP_844231.1	246916
49134	G09	BA4636	D-tyrosyl-tRNA(Tyr) deacylase	Chromosome (NC_003997)	NP_846853.1	246925
51719	G10	BA1802	sensor histidine kinase	Chromosome (NC_003997)	NP_844226.1	246939
49913	G11	BA1742	hypothetical protein	Chromosome (NC_003997)	NP_844175.1	246955
50388	G12	BA4805	RNA methyltransferase, TrmH family	Chromosome (NC_003997)	NP_847008.1	245899
51469	H01	BA3017	hypothetical protein	Chromosome (NC_003997)	NP_845348.1	248049
51718	H02	BA5364	enolase	Chromosome (NC_003997)	NP_847538.1	248059
49396	H03	BA3034	hypothetical protein	Chromosome (NC_003997)	NP_845365.1	248073
47770	H04	BA1805	hypothetical protein	Chromosome (NC_003997)	NP_844229.1	246874

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50114	H05	BA0098	ribosomal protein L1	Chromosome (NC_003997)	NP_842666.1	246883
50491	H06	BA4137	phospholipase, putative	Chromosome (NC_003997)	NP_846376.1	246893
48790	H07	BA0072	dihydroneopterin aldolase	Chromosome (NC_003997)	NP_842641.1	246909
49003	H08	BA1776	hypothetical protein	Chromosome (NC_003997)	NP_844202.1	246917
51327	H09	BA1743	hypothetical protein	Chromosome (NC_003997)	NP_844176.1	246926
49504	H10	BA0096	transcription antitermination protein NusG	Chromosome (NC_003997)	NP_842664.1	246940
47616	H11	BA4793	hypothetical protein	Chromosome (NC_003997)	NP_846996.1	245892

Table 19: *Bacillus anthracis* Gateway® Clone, Plate 19 (QMG002860), NR-19743¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47952	A02	BA4773	hypothetical protein	Chromosome (NC_003997)	NP_846979.1	245908
48469	A03	BA2431	hypothetical protein	Chromosome (NC_003997)	NP_844807.1	245925
51229	A04	BA4804	phenylalanyl-tRNA synthetase, alpha subunit	Chromosome (NC_003997)	NP_847007.1	245934
51445	A05	BA2465	hypothetical protein	Chromosome (NC_003997)	NP_844841.1	245944
49477	A06	BA4320	hypothetical protein	Chromosome (NC_003997)	NP_846553.1	245955
49855	A07	BA0564	ankyrin repeat domain protein	Chromosome (NC_003997)	NP_843098.1	245968
49701	A08	BA1052	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_843551.1	248186
47802	A09	BA2915	hypothetical protein	Chromosome (NC_003997)	NP_845251.1	248197
47835	A10	BA5251	hypothetical protein	Chromosome (NC_003997)	NP_847430.1	248207
48024	A11	BA2897	hypothetical protein	Chromosome (NC_003997)	NP_845236.1	248219
48312	A12	BA5254	hypothetical protein	Chromosome (NC_003997)	NP_847433.1	248229
47791	B01	BA2433	hypothetical protein	Chromosome (NC_003997)	NP_844809.1	245900
50621	B02	BA2459	hypothetical protein	Chromosome (NC_003997)	NP_844835.1	245911
50908	B03	BA0581	transporter, EamA family	Chromosome (NC_003997)	NP_843115.1	245926
51244	B04	BA2436	aspartate-semialdehyde dehydrogenase	Chromosome (NC_003997)	NP_844812.1	245936
49388	B05	BA4768	hypothetical protein	Chromosome (NC_003997)	NP_846974.1	245945
51768	B06	BA2460	hypothetical protein	Chromosome (NC_003997)	NP_844836.1	245956
50105	B07	BA2440	hypothetical protein	Chromosome (NC_003997)	NP_844816.1	245974
47674	B08	BA1031	hypothetical protein	Chromosome (NC_003997)	NP_843531.1	248187
50208	B09	BA2906	ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_845244.1	248198
50518	B10	BA1021	hypothetical protein	Chromosome (NC_003997)	NP_843522.1	248210
48050	B11	BA1043	hypothetical protein	Chromosome (NC_003997)	NP_843542.1	248221
50963	B12	BA1015	glyoxalase family protein	Chromosome (NC_003997)	NP_843516.1	248230
50387	C01	BA4783	hypothetical protein	Chromosome (NC_003997)	NP_846988.1	245901
48148	C02	BA4806	hypothetical protein	Chromosome (NC_003997)	NP_847009.1	245912
48555	C03	BA2462	PTS system, cellobiose-specific IIB component, putative	Chromosome (NC_003997)	NP_844838.1	245927
48685	C04	BA4811	hypothetical protein	Chromosome (NC_003997)	NP_847014.1	245937
49378	C05	BA0563	lipoprotein, putative	Chromosome (NC_003997)	NP_843097.1	245947
49563	C06	BA0556	hypothetical protein	Chromosome (NC_003997)	NP_843091.1	245957
50129	C07	BA4770	hypothetical protein	Chromosome (NC_003997)	NP_846976.1	245978
49744	C08	BA2924	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845260.1	248188

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47801	C09	BA2911	hypothetical protein	Chromosome (NC_003997)	NP_845247.1	248199
47929	C10	BA5259	hypothetical protein	Chromosome (NC_003997)	NP_847438.1	248211
48083	C11	BA1020	hypothetical protein	Chromosome (NC_003997)	NP_843521.1	248223
48328	C12	BA5241	spore coat protein F-related protein	Chromosome (NC_003997)	NP_847420.1	248231
47830	D01	BA2461	hypothetical protein	Chromosome (NC_003997)	NP_844837.1	245902
48305	D02	BA2438	hypothetical protein	Chromosome (NC_003997)	NP_844814.1	245915
50925	D03	BA0567	glycerol-3-phosphate ABC transporter, permease protein, putativ	Chromosome (NC_003997)	NP_843101.1	245928
51301	D04	BA2458	hypothetical protein	Chromosome (NC_003997)	NP_844834.1	245938
51554	D05	BA0579	malate dehydrogenase, putative	Chromosome (NC_003997)	NP_843113.1	245948
51775	D06	BA4790	branched-chain amino acid transport system II carrier protein	Chromosome (NC_003997)	NP_846995.1	245958
49574	D07	BA5244	transcriptional regulator, putative	Chromosome (NC_003997)	NP_847423.1	248176
47721	D08	BA5247	hypothetical protein	Chromosome (NC_003997)	NP_847426.1	248189
50232	D09	BA5245	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_847424.1	248200
50582	D10	BA2917	hypothetical protein	Chromosome (NC_003997)	NP_845253.1	248214
50710	D11	BA1041	protein export protein prsA	Chromosome (NC_003997)	NP_843541.1	248224
48375	D12	BA5230	hypothetical protein	Chromosome (NC_003997)	NP_847410.1	248233
50407	E01	BA4784	iron compound ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846989.1	245903
50745	E02	BA2435	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_844811.1	245916
50943	E03	BA4776	sensor histidine kinase	Chromosome (NC_003997)	NP_846981.1	245930
48847	E04	BA4810	hypothetical protein	Chromosome (NC_003997)	NP_847013.1	245939
49391	E05	BA0587	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843121.1	245949
49611	E06	BA4807	HD domain protein	Chromosome (NC_003997)	NP_847010.1	245959
47617	E07	BA5227	hypothetical protein	Chromosome (NC_003997)	NP_847407.1	248179
49890	E08	BA2902	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_845241.1	248192
50245	E09	BA2923	hypothetical protein	Chromosome (NC_003997)	NP_845259.1	248202
48014	E10	BA5242	hypothetical protein	Chromosome (NC_003997)	NP_847421.1	248215
48172	E11	BA1023	hypothetical protein	Chromosome (NC_003997)	NP_843524.1	248225
51065	E12	BA1016	glyoxylase family protein	Chromosome (NC_003997)	NP_843517.1	248234
47910	F01	BA2428	hypothetical protein	Chromosome (NC_003997)	NP_844805.1	245904
48347	F02	BA0562	hypothetical protein	Chromosome (NC_003997)	NP_843096.1	245919
48605	F03	BA2432	hypothetical protein	Chromosome (NC_003997)	NP_844808.1	245931
49211	F04	BA4788	hypothetical protein	Chromosome (NC_003997)	NP_846993.1	245941
51560	F05	BA4780	hypothetical protein	Chromosome (NC_003997)	NP_846985.1	245950
49637	F06	BA0565	glycerol uptake operon antiterminator regulatory protein, putat	Chromosome (NC_003997)	NP_843099.1	245961
47650	F07	BA5250	hypothetical protein	Chromosome (NC_003997)	NP_847429.1	248181
47762	F08	BA1018	hypothetical protein	Chromosome (NC_003997)	NP_843519.1	248193
47817	F09	BA2913	hypothetical protein	Chromosome (NC_003997)	NP_845249.1	248203
50579	F10	BA1025	glycerol uptake facilitator protein	Chromosome (NC_003997)	NP_843526.1	248216

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50758	F11	BA1019	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_843520.1	248226
48473	F12	BA5264	hypothetical protein	Chromosome (NC_003997)	NP_847443.1	248235
47941	G01	BA4778	hypothetical protein	Chromosome (NC_003997)	NP_846983.1	245906
48369	G02	BA2445	hypothetical protein	Chromosome (NC_003997)	NP_844821.1	245921
51088	G03	BA4785	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_846990.1	245932
51411	G04	BA0566	glycerol-3-phosphate ABC transporter, ATP-binding protein, puta	Chromosome (NC_003997)	NP_843100.1	245942
49423	G05	BA0583	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843117.1	245951
49766	G06	BA2442	hypothetical protein	Chromosome (NC_003997)	NP_844818.1	245964
49670	G07	BA1013	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_843514.1	248184
47803	G08	BA2934	hypothetical protein	Chromosome (NC_003997)	NP_845270.1	248195
50342	G09	BA2922	sulfonate ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_845258.1	248204
48008	G10	BA2905	hypothetical protein	Chromosome (NC_003997)	NP_845243.1	248217
48202	G11	BA1022	DNA-binding protein	Chromosome (NC_003997)	NP_843523.1	248227
48544	G12	BA5255	conserved hypothetical protein TIGR00106	Chromosome (NC_003997)	NP_847434.1	248236
50457	H01	BA2425	hypothetical protein	Chromosome (NC_003997)	NP_844802.1	245907
50838	H02	BA2439	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_844815.1	245922
48628	H03	BA4782	hypothetical protein	Chromosome (NC_003997)	NP_846987.1	245933
49331	H04	BA0547	RNA methyltransferase, TrmH family, group 2	Chromosome (NC_003997)	NP_843082.1	245943
49471	H05	BA0580	lipoprotein, putative	Chromosome (NC_003997)	NP_843114.1	245953
49806	H06	BA2427	hypothetical protein	Chromosome (NC_003997)	NP_844804.1	245966
47649	H07	BA5231	hypothetical protein	Chromosome (NC_003997)	NP_847411.1	248185
50098	H08	BA5243	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_847422.1	248196
50358	H09	BA5257	hypothetical protein	Chromosome (NC_003997)	NP_847436.1	248206
50609	H10	BA2901	hypothetical protein	Chromosome (NC_003997)	NP_845240.1	248218
50892	H11	BA5253	proline dehydrogenase family protein	Chromosome (NC_003997)	NP_847432.1	248228

Table 20: *Bacillus anthracis* Gateway® Clone, Plate 20 (QMG002861), NR-19744¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51569	A02	BA2896	transporter, putative	Chromosome (NC_003997)	NP_845235.1	248248
47727	A03	BA0969	hypothetical protein	Chromosome (NC_003997)	NP_843473.1	244277
48016	A04	BA5709	hypothetical protein	Chromosome (NC_003997)	NP_847855.1	244287
50622	A05	BA2687	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_845044.1	244299
50957	A06	BA2833	hypothetical protein	Chromosome (NC_003997)	NP_845179.1	244311
48720	A07	BA0812	hypothetical protein	Chromosome (NC_003997)	NP_843330.1	244320
48988	A08	BA2693	hypothetical protein	Chromosome (NC_003997)	NP_845050.1	244332
49165	A09	BA5718	ribosomal protein L9	Chromosome (NC_003997)	NP_847864.1	244342
49483	A10	BA2847	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845191.1	244357
47751	A11	BA3651	glyoxalase domain protein	Chromosome (NC_003997)	NP_845917.1	241217

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48072	A12	BA3669	thioredoxin-like protein	Chromosome (NC_003997)	NP_845932.1	241231
51316	B01	BA2916	membrane protein, putative	Chromosome (NC_003997)	NP_845252.2	248237
48814	B02	BA5229	hypothetical protein	Chromosome (NC_003997)	NP_847409.1	248249
47785	B03	BA0980	hypothetical protein	Chromosome (NC_003997)	NP_843481.1	244279
50414	B04	BA0992	RNA polymerase sigma-B factor	Chromosome (NC_003997)	NP_843493.1	244288
48252	B05	BA5034	hypothetical protein	Chromosome (NC_003997)	NP_847226.1	244300
48457	B06	BA0809	hypothetical protein	Chromosome (NC_003997)	NP_843327.1	244312
48766	B07	BA2853	cell division protein DivIC	Chromosome (NC_003997)	NP_845195.1	244322
51502	B08	BA5710	serine protease	Chromosome (NC_003997)	NP_847856.1	244333
51709	B09	BA5716	adenylosuccinate synthetase	Chromosome (NC_003997)	NP_847862.1	244343
47624	B10	BA1262	hypothetical protein	Chromosome (NC_003997)	NP_843734.1	241207
49822	B11	BA3703	phospholipase/carboxylesterase family protein	Chromosome (NC_003997)	NP_845966.1	241218
48066	B12	BA1271	DNA-binding protein	Chromosome (NC_003997)	NP_843743.2	241232
48698	C01	BA5232	hypothetical protein	Chromosome (NC_003997)	NP_847412.1	248240
48895	C02	BA5228	glycine cleavage system H protein	Chromosome (NC_003997)	NP_847408.1	248251
50052	C03	BA0798	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843317.1	244280
48079	C04	BA5725	hypothetical protein	Chromosome (NC_003997)	NP_847871.1	244290
48296	C05	BA2837	hypothetical protein	Chromosome (NC_003997)	NP_845183.1	244304
48499	C06	BA5723	ribosomal protein S6	Chromosome (NC_003997)	NP_847869.1	244313
48821	C07	BA0811	hypothetical protein	Chromosome (NC_003997)	NP_843329.1	244326
48998	C08	BA2676	mutT/nudix family protein	Chromosome (NC_003997)	NP_845035.2	244334
49305	C09	BA0991	anti-sigma b factor	Chromosome (NC_003997)	NP_843492.1	244346
49711	C10	BA3686	hypothetical protein	Chromosome (NC_003997)	NP_845949.1	241208
47775	C11	BA3670	hypothetical protein	Chromosome (NC_003997)	NP_845933.1	241219
48116	C12	BA3692	hypothetical protein	Chromosome (NC_003997)	NP_845955.1	241234
51372	D01	BA1017	TPR domain protein	Chromosome (NC_003997)	NP_843518.1	248241
48918	D02	BA5233	lipoprotein, putative	Chromosome (NC_003997)	NP_847413.1	248252
47800	D03	BA2871	hypothetical protein	Chromosome (NC_003997)	NP_845212.1	244281
48200	D04	BA0978	hypothetical protein	Chromosome (NC_003997)	NP_843480.1	244292
48380	D05	BA2857	hypothetical protein	Chromosome (NC_003997)	NP_845199.1	244306
51073	D06	BA5036	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_847228.1	244314
51420	D07	BA0975	HD domain protein	Chromosome (NC_003997)	NP_843477.1	244327
49078	D08	BA2855	cytidine and deoxycytidylate deaminase family protein	Chromosome (NC_003997)	NP_845197.1	244336
51825	D09	BA5717	replicative DNA helicase	Chromosome (NC_003997)	NP_847863.1	244347
49730	D10	BA1288	spore coat-associated protein	Chromosome (NC_003997)	NP_843759.1	241210
47979	D11	BA1278	hypothetical protein	Chromosome (NC_003997)	NP_843750.1	241223
48162	D12	BA3694	hypothetical protein	Chromosome (NC_003997)	NP_845957.1	241236
48734	E01	BA5226	Toprim domain protein	Chromosome (NC_003997)	NP_847406.1	248242
48951	E02	BA2900	(3R)-hydroxymyristoyl-(acyl-carrier-protein) dehydratase, putat	Chromosome (NC_003997)	NP_845239.1	248254
50178	E03	BA5715	DNA-binding response regulator YycF	Chromosome (NC_003997)	NP_847861.1	244282
50547	E04	BA5030	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_847223.1	244293

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50919	E05	BA2826	inorganic pyrophosphatase, manganese-dependent	Chromosome (NC_003997)	NP_845172.1	244307
48519	E06	BA5035	hypothetical protein	Chromosome (NC_003997)	NP_847227.1	244315
48875	E07	BA2844	hypothetical protein	Chromosome (NC_003997)	NP_845187.1	244328
51495	E08	BA0797	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843316.1	244337
49350	E09	BA5189	hypothetical protein	Chromosome (NC_003997)	NP_847372.1	244348
49751	E10	BA1290	spore coat-associated protein, putative	Chromosome (NC_003997)	NP_843760.1	241212
50069	E11	BA3661	DNA-binding response regulator	Chromosome (NC_003997)	NP_845926.1	241224
50558	E12	BA3693	hypothetical protein	Chromosome (NC_003997)	NP_845956.1	241237
48733	F01	BA5224	hypothetical protein	Chromosome (NC_003997)	NP_847404.1	248244
49320	F02	BA1035	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843534.1	248260
47874	F03	BA2854	hypothetical protein	Chromosome (NC_003997)	NP_845196.1	244283
48219	F04	BA2845	hypothetical protein	Chromosome (NC_003997)	NP_845188.1	244294
48459	F05	BA0977	hypothetical protein	Chromosome (NC_003997)	NP_843479.1	244308
51142	F06	BA2849	NLP/P60 family protein	Chromosome (NC_003997)	NP_845193.1	244317
51446	F07	BA2694	esterase, putative	Chromosome (NC_003997)	NP_845051.1	244329
49108	F08	BA2675	spermine/spermidine acetyltransferase	Chromosome (NC_003997)	NP_845034.1	244338
49384	F09	BA2828	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845174.1	244350
47664	F10	BA1260	hypothetical protein	Chromosome (NC_003997)	NP_843732.1	241213
47978	F11	BA1273	hypothetical protein	Chromosome (NC_003997)	NP_843745.1	241225
48161	F12	BA3650	hypothetical protein	Chromosome (NC_003997)	NP_845916.1	241238
48798	G01	BA2898	lipoprotein, putative	Chromosome (NC_003997)	NP_845237.1	248246
49508	G02	BA1032	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_843532.1	248263
50382	G03	BA2841	hypothetical protein	Chromosome (NC_003997)	NP_845185.1	244284
50565	G04	BA2692	hypothetical protein	Chromosome (NC_003997)	NP_845049.1	244296
50954	G05	BA5720	hypothetical protein	Chromosome (NC_003997)	NP_847866.1	244309
48568	G06	BA2839	hypothetical protein	Chromosome (NC_003997)	NP_845184.1	244318
48935	G07	BA2691	endoribonuclease L-PSP, putative	Chromosome (NC_003997)	NP_845048.1	244330
51508	G08	BA2846	dltD protein	Chromosome (NC_003997)	NP_845190.1	244339
49392	G09	BA0967	hypothetical protein	Chromosome (NC_003997)	NP_843472.1	244352
49757	G10	BA3654	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845919.1	241214
48020	G11	BA1280	hypothetical protein	Chromosome (NC_003997)	NP_843752.1	241227
50732	G12	BA1277	hypothetical protein	Chromosome (NC_003997)	NP_843749.1	241239
48809	H01	BA1036	hypothetical protein	Chromosome (NC_003997)	NP_843535.1	248247
49802	H02	BA0810	dedA family protein	Chromosome (NC_003997)	NP_843328.1	244276
50389	H03	BA5037	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847229.1	244286
48227	H04	BA0813	hypothetical protein	Chromosome (NC_003997)	NP_843331.1	244297
48458	H05	BA0973	hypothetical protein	Chromosome (NC_003997)	NP_843476.1	244310
51235	H06	BA2834	proline racemase, putative	Chromosome (NC_003997)	NP_845180.1	244319
51462	H07	BA0796	hypothetical protein	Chromosome (NC_003997)	NP_843315.1	244331
49124	H08	BA2829	carboxymuconolactone decarboxylase	Chromosome (NC_003997)	NP_845175.1	244340

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49461	H09	BA5722	single-stranded DNA-binding protein	Chromosome (NC_003997)	NP_847868.2	244356
47706	H10	BA3658	hypothetical protein	Chromosome (NC_003997)	NP_845923.1	241215
48041	H11	BA3632	hypothetical protein	Chromosome (NC_003997)	NP_845900.1	241229

Table 21: *Bacillus anthracis* Gateway® Clone, Plate 21 (QMG002862), NR-19745¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48324	A02	BA3697	hypothetical protein	Chromosome (NC_003997)	NP_845960.1	241248
48494	A03	BA3666	hypothetical protein	Chromosome (NC_003997)	NP_845929.1	241256
51640	A04	BA1269	2-oxoglutarate dehydrogenase, E2 component, dihydrolipoamide succinyltransferase	Chromosome (NC_003997)	NP_843741.1	241266
49181	A05	BA3698	N-acetylmuramoyl-L-alanine amidase, putative	Chromosome (NC_003997)	NP_845961.1	241283
50580	A06	BA1977	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_844383.1	245718
50738	A07	BA4846	acetyl-CoA carboxylase, carboxyl transferase, beta subunit	Chromosome (NC_003997)	NP_847049.1	245727
50994	A08	BA0621	hypothetical protein	Chromosome (NC_003997)	NP_843152.1	245738
48566	A09	BA2002	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_844406.1	245752
48848	A10	BA4862	lipoprotein, putative	Chromosome (NC_003997)	NP_847063.1	245762
51532	A11	BA0620	8-amino-7-oxononanoate synthase, putative	Chromosome (NC_003997)	NP_843151.1	245770
49950	A12	BA4847	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_847050.1	245781
48215	B01	BA1281	hypothetical protein	Chromosome (NC_003997)	NP_843753.1	241240
51205	B02	BA1250	anthranilate phosphoribosyltransferase	Chromosome (NC_003997)	NP_843722.1	241249
51329	B03	BA3687	acetyl-CoA acetyltransferase	Chromosome (NC_003997)	NP_845950.1	241257
48966	B04	BA1276	hypothetical protein	Chromosome (NC_003997)	NP_843748.1	241267
49279	B05	BA3708	transcriptional regulator, CarD family	Chromosome (NC_003997)	NP_845971.1	241285
47744	B06	BA2495	hypothetical protein	Chromosome (NC_003997)	NP_844870.1	245719
48069	B07	BA1996	hypothetical protein	Chromosome (NC_003997)	NP_844401.1	245728
51013	B08	BA4844	phosphofructokinase	Chromosome (NC_003997)	NP_847047.1	245740
51151	B09	BA0616	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_843147.1	245753
51357	B10	BA0634	spore germination protein GerKB	Chromosome (NC_003997)	NP_843165.1	245763
49196	B11	BA4866	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_847067.1	245771
51908	B12	BA0631	PTS system, trehalose-specific IIBC component	Chromosome (NC_003997)	NP_843162.1	245784
48214	C01	BA1261	hypothetical protein	Chromosome (NC_003997)	NP_843733.1	241242
48318	C02	BA1279	hypothetical protein	Chromosome (NC_003997)	NP_843751.1	241250
48726	C03	BA3629	hypothetical protein	Chromosome (NC_003997)	NP_845897.1	241258
48991	C04	BA3683	hypothetical protein	Chromosome (NC_003997)	NP_845946.1	241269

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49315	C05	BA3630	hypothetical protein	Chromosome (NC_003997)	NP_845898.1	241287
50578	C06	BA0618	iron compound ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843149.1	245720
50809	C07	BA1970	homoserine kinase	Chromosome (NC_003997)	NP_844376.1	245729
51028	C08	BA1992	phospholipase, putative	Chromosome (NC_003997)	NP_844397.1	245742
51274	C09	BA1969	threonine synthase	Chromosome (NC_003997)	NP_844375.1	245755
48859	C10	BA4863	lipoprotein, putative	Chromosome (NC_003997)	NP_847064.1	245764
51619	C11	BA4848	malate dehydrogenase, putative	Chromosome (NC_003997)	NP_847051.2	245772
50080	C12	BA1979	sapB protein	Chromosome (NC_003997)	NP_844385.1	245785
50949	D01	BA3704	glyoxylase family protein	Chromosome (NC_003997)	NP_845967.1	241243
51222	D02	BA3655	oxidoreductase, Gfo/Idh/MocA family	Chromosome (NC_003997)	NP_845920.1	241251
48782	D03	BA1274	hypothetical protein	Chromosome (NC_003997)	NP_843746.1	241260
49006	D04	BA3659	CoA binding domain family protein	Chromosome (NC_003997)	NP_845924.1	241273
49342	D05	BA1264	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843736.1	241289
50604	D06	BA4864	hypothetical protein	Chromosome (NC_003997)	NP_847065.1	245721
48126	D07	BA1987	Small, acid-soluble spore protein, alpha/beta family	Chromosome (NC_003997)	NP_844393.1	245730
48481	D08	BA2000	transition state transcriptional regulatory protein, putative	Chromosome (NC_003997)	NP_844404.1	245745
48686	D09	BA0627	hypothetical protein	Chromosome (NC_003997)	NP_843158.1	245756
51384	D10	BA4839	citrate synthase CitZ	Chromosome (NC_003997)	NP_847042.1	245765
49225	D11	BA4840	hypothetical protein	Chromosome (NC_003997)	NP_847043.1	245774
52005	D12	BA0625	cardiolipin synthetase	Chromosome (NC_003997)	NP_843156.1	245790
48228	E01	BA1284	hypothetical protein	Chromosome (NC_003997)	NP_843756.1	241244
48381	E02	BA3680	hypothetical protein	Chromosome (NC_003997)	NP_845943.1	241252
48843	E03	BA3701	glyoxalase family protein, putative	Chromosome (NC_003997)	NP_845964.1	241262
49017	E04	BA1303	hypothetical protein	Chromosome (NC_003997)	NP_843771.1	241275
49414	E05	BA3649	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_845915.1	241291
47798	E06	BA1993	hypothetical protein	Chromosome (NC_003997)	NP_844398.1	245722
50806	E07	BA0624	norQ protein, putative	Chromosome (NC_003997)	NP_843155.1	245731
51045	E08	BA0637	hypothetical protein	Chromosome (NC_003997)	NP_843168.1	245746
48730	E09	BA4867	hypothetical protein	Chromosome (NC_003997)	NP_847068.1	245758
51398	E10	BA0633	spore germination protein GerKC	Chromosome (NC_003997)	NP_843164.1	245766
51631	E11	BA1974	lipoprotein, putative	Chromosome (NC_003997)	NP_844380.1	245775
50255	E12	BA0619	hypothetical protein	Chromosome (NC_003997)	NP_843150.1	245796
51081	F01	BA3155	glutaminase A	Chromosome (NC_003997)	NP_845472.1	241245
51232	F02	BA1300	spermidine/putrescine ABC transporter, spermidine/putrescine-bin	Chromosome (NC_003997)	NP_843768.1	241253
51612	F03	BA3684	alanyl-tRNA synthetase family protein	Chromosome (NC_003997)	NP_845947.1	241263
49033	F04	BA3667	4-hydroxybenzoyl-CoA thioesterase, putative	Chromosome (NC_003997)	NP_845930.1	241277
47643	F05	BA1990	hypothetical protein	Chromosome (NC_003997)	NP_844395.1	245715
47893	F06	BA4859	hypothetical protein	Chromosome (NC_003997)	NP_847060.1	245724
48144	F07	BA1971	hypothetical protein	Chromosome (NC_003997)	NP_844377.1	245732

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48532	F08	BA4855	hypothetical protein	Chromosome (NC_003997)	NP_847057.1	245747
51341	F09	BA4861	proline dipeptidase	Chromosome (NC_003997)	NP_847062.1	245759
48987	F10	BA2484	hypothetical protein	Chromosome (NC_003997)	NP_844859.1	245767
49389	F11	BA4851	hypothetical protein	Chromosome (NC_003997)	NP_847054.1	245776
50315	F12	BA2490	hypothetical protein	Chromosome (NC_003997)	NP_844865.1	245798
48245	G01	BA1275	hypothetical protein	Chromosome (NC_003997)	NP_843747.1	241246
48436	G02	BA3682	hypothetical protein	Chromosome (NC_003997)	NP_845945.1	241254
48864	G03	BA1272	hypothetical protein	Chromosome (NC_003997)	NP_843744.1	241264
49071	G04	BA3696	blasticidin S deaminase, putative	Chromosome (NC_003997)	NP_845959.1	241279
50570	G05	BA1998	NH(3)-dependent NAD(+) synthetase	Chromosome (NC_003997)	NP_844403.1	245716
50650	G06	BA1986	hypothetical protein	Chromosome (NC_003997)	NP_844392.1	245725
50940	G07	BA2003	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_844407.1	245735
48542	G08	BA4856	hypothetical protein	Chromosome (NC_003997)	NP_847058.1	245749
48820	G09	BA0626	hypothetical protein	Chromosome (NC_003997)	NP_843157.1	245760
51464	G10	BA1995	protease, putative	Chromosome (NC_003997)	NP_844400.1	245768
49464	G11	BA1980	hypothetical protein	Chromosome (NC_003997)	NP_844386.1	245778
50330	G12	BA1994	hypothetical protein	Chromosome (NC_003997)	NP_844399.1	245800
51130	H01	BA3648	hypothetical protein	Chromosome (NC_003997)	NP_845914.1	241247
51236	H02	BA3647	transcription antiterminator, LytR family	Chromosome (NC_003997)	NP_845913.1	241255
48904	H03	BA3681	spore coat protein M	Chromosome (NC_003997)	NP_845944.1	241265
49146	H04	BA3685	mutT/nudix family protein	Chromosome (NC_003997)	NP_845948.1	241281
47718	H05	BA2489	hypothetical protein	Chromosome (NC_003997)	NP_844864.1	245717
47983	H06	BA1991	hypothetical protein	Chromosome (NC_003997)	NP_844396.1	245726
48267	H07	BA2494	hypothetical protein	Chromosome (NC_003997)	NP_844869.1	245736
51084	H08	BA1985	hypothetical protein	Chromosome (NC_003997)	NP_844391.1	245750
51340	H09	BA4841	membrane protein, putative	Chromosome (NC_003997)	NP_847044.1	245761
49041	H10	BA0622	mutT/nudix family protein	Chromosome (NC_003997)	NP_843153.1	245769
51754	H11	BA4858	thioesterase family protein	Chromosome (NC_003997)	NP_847059.1	245779

Table 22: *Bacillus anthracis* Gateway® Clone, Plate 22 (QMG002863), NR-19746¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50437	A02	BA3961	undecaprenyl diphosphate synthase	Chromosome (NC_003997)	NP_846204.1	247503
50701	A03	BA1619	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844066.1	247514
50802	A04	BA3976	GTPase family protein	Chromosome (NC_003997)	NP_846218.1	247523
50970	A05	BA4004	methionyl-tRNA formyltransferase	Chromosome (NC_003997)	NP_846246.1	247532
49255	A06	BA3954	hypothetical protein	Chromosome (NC_003997)	NP_846197.1	247543
49607	A07	BA3962	ribosome recycling factor	Chromosome (NC_003997)	NP_846205.1	247555
49948	A08	BA3998	ribulose-phosphate 3-epimerase	Chromosome (NC_003997)	NP_846240.1	247569
47860	A09	BA1697	hypothetical protein	Chromosome (NC_003997)	NP_844137.1	247148
50344	A10	BA4092	prophage LambdaBa02, Clp protease family protein	Chromosome (NC_003997)	NP_846331.1	247157
48418	A11	BA1673	hypothetical protein	Chromosome (NC_003997)	NP_844118.1	247167

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48523	A12	BA1676	flagellar hook-basal body complex protein FliE, putative	Chromosome (NC_003997)	NP_844121.1	247179
47692	B01	BA3956	hypothetical protein	Chromosome (NC_003997)	NP_846199.1	247495
48025	B02	BA3996	ribosomal protein L28	Chromosome (NC_003997)	NP_846238.1	247504
48348	B03	BA1596	hypothetical protein	Chromosome (NC_003997)	NP_844045.1	247515
50818	B04	BA1589	macrolide 2-phosphotransferase, putative	Chromosome (NC_003997)	NP_844038.1	247525
48829	B05	BA4016	membrane protein, putative	Chromosome (NC_003997)	NP_846258.1	247533
51437	B06	BA3959	1-deoxy-D-xylulose 5-phosphate reductoisomerase	Chromosome (NC_003997)	NP_846202.1	247544
51737	B07	BA3970	gid protein	Chromosome (NC_003997)	NP_846213.1	247556
50268	B08	BA3979	tRNA (guanine-N1)-methyltransferase	Chromosome (NC_003997)	NP_846221.1	247574
50182	B09	BA1720	alanyl-tRNA synthetase domain protein	Chromosome (NC_003997)	NP_844155.1	247149
48093	B10	BA4090	hypothetical protein	Chromosome (NC_003997)	NP_846329.1	247158
50515	B11	BA4047	cell division protein FtsQ	Chromosome (NC_003997)	NP_846287.1	247168
48539	B12	BA4069	hypothetical protein	Chromosome (NC_003997)	NP_846308.1	247181
47823	C01	BA4015	hypothetical protein	Chromosome (NC_003997)	NP_846257.1	247497
48035	C02	BA1579	hypothetical protein	Chromosome (NC_003997)	NP_844028.1	247506
48366	C03	BA1621	hypothetical protein	Chromosome (NC_003997)	NP_844068.1	247516
48727	C04	BA3978	ribosomal protein L19	Chromosome (NC_003997)	NP_846220.1	247526
48883	C05	BA1564	aspartate 1-decarboxylase	Chromosome (NC_003997)	NP_844014.1	247534
49263	C06	BA1588	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844037.1	247545
49617	C07	BA1620	isochorismatase family protein	Chromosome (NC_003997)	NP_844067.1	247557
47625	C08	BA1699	hypothetical protein	Chromosome (NC_003997)	NP_844139.1	247140
47963	C09	BA1704	hypothetical protein	Chromosome (NC_003997)	NP_844142.1	247150
50350	C10	BA1712	flagellar biosynthetic protein FliP, putative	Chromosome (NC_003997)	NP_844147.1	247159
48439	C11	BA4089	hypothetical protein	Chromosome (NC_003997)	NP_846328.1	247169
50933	C12	BA4057	S-adenosyl-methyltransferase MraW	Chromosome (NC_003997)	NP_846297.1	247184
50313	D01	BA1590	methionine aminopeptidase	Chromosome (NC_003997)	NP_844039.1	247498
50490	D02	BA3960	phosphatidate cytidyltransferase	Chromosome (NC_003997)	NP_846203.1	247507
50761	D03	BA4011	conserved hypothetical protein TIGR00255	Chromosome (NC_003997)	NP_846253.1	247517
48723	D04	BA1578	hypothetical protein	Chromosome (NC_003997)	NP_844027.1	247527
48900	D05	BA1623	RNase H	Chromosome (NC_003997)	NP_844070.1	247535
49287	D06	BA1580	hypothetical protein	Chromosome (NC_003997)	NP_844029.1	247547
51767	D07	BA1592	xanthine permease	Chromosome (NC_003997)	NP_844041.1	247558
49823	D08	BA4080	hypothetical protein	Chromosome (NC_003997)	NP_846319.1	247141
50206	D09	BA1664	hypothetical protein	Chromosome (NC_003997)	NP_844110.1	247151
48133	D10	BA4107	hypothetical protein	Chromosome (NC_003997)	NP_846346.1	247160
48430	D11	BA1713	flagellar biosynthetic protein FliQ, putative	Chromosome (NC_003997)	NP_844148.1	247171
48656	D12	BA4103	hypothetical protein	Chromosome (NC_003997)	NP_846342.1	247185
47921	E01	BA1566	hypothetical protein	Chromosome (NC_003997)	NP_844016.1	247499
50521	E02	BA1615	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_844063.1	247509
48383	E03	BA4010	hypothetical protein	Chromosome (NC_003997)	NP_846252.1	247518

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50842	E04	BA3973	succinyl-CoA synthase, alpha subunit	Chromosome (NC_003997)	NP_846215.1	247528
51293	E05	BA4014	proline dipeptidase, putative	Chromosome (NC_003997)	NP_846256.1	247537
51466	E06	BA1593	membrane protein, putative	Chromosome (NC_003997)	NP_844042.1	247548
49759	E07	BA3992	hypothetical protein	Chromosome (NC_003997)	NP_846234.1	247559
47675	E08	BA1695	hypothetical protein	Chromosome (NC_003997)	NP_844135.1	247142
47988	E09	BA4071	hypothetical protein	Chromosome (NC_003997)	NP_846310.1	247152
50361	E10	BA1714	flagellar biosynthetic protein FliR	Chromosome (NC_003997)	NP_844149.1	247161
48438	E11	BA4076	prophage LambdaBa02, transcriptional regulator, AbrB family	Chromosome (NC_003997)	NP_846315.1	247173
48771	E12	BA4088	hypothetical protein	Chromosome (NC_003997)	NP_846327.1	247186
47947	F01	BA1575	hypothetical protein	Chromosome (NC_003997)	NP_844025.1	247500
48164	F02	BA4008	DNA-directed RNA polymerase, omega subunit	Chromosome (NC_003997)	NP_846250.1	247510
50776	F03	BA3999	conserved hypothetical protein TIGR00157	Chromosome (NC_003997)	NP_846241.1	247519
48770	F04	BA3948	ribosome-binding factor A	Chromosome (NC_003997)	NP_846191.1	247529
49044	F05	BA1581	spore coat protein D, putative	Chromosome (NC_003997)	NP_844030.1	247538
49453	F06	BA1571	hypothetical protein	Chromosome (NC_003997)	NP_844021.1	247549
51783	F07	BA4003	sun protein	Chromosome (NC_003997)	NP_846245.1	247560
50063	F08	BA1701	hypothetical protein	Chromosome (NC_003997)	NP_844140.1	247143
47987	F09	BA4068	hypothetical protein	Chromosome (NC_003997)	NP_846307.1	247154
48132	F10	BA4070	prophage LambdaBa02, repressor protein	Chromosome (NC_003997)	NP_846309.1	247162
48429	F11	BA1696	hypothetical protein	Chromosome (NC_003997)	NP_844136.1	247175
48772	F12	BA4104	hypothetical protein	Chromosome (NC_003997)	NP_846343.1	247187
50424	G01	BA3975	ribonuclease HII	Chromosome (NC_003997)	NP_846217.1	247501
50639	G02	BA1562	3-methyl-2-oxobutanoate hydroxymethyltransferase	Chromosome (NC_003997)	NP_844012.1	247511
48425	G03	BA3952	hypothetical protein	Chromosome (NC_003997)	NP_846195.1	247520
50865	G04	BA1622	transporter, EamA family	Chromosome (NC_003997)	NP_844069.1	247530
49239	G05	BA1597	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844046.1	247540
49543	G06	BA3968	ATP-dependent protease hslV	Chromosome (NC_003997)	NP_846211.1	247550
49753	G07	BA1591	xanthine phosphoribosyltransferase	Chromosome (NC_003997)	NP_844040.1	247561
47716	G08	BA1694	hypothetical protein	Chromosome (NC_003997)	NP_844134.1	247144
50235	G09	BA1722	AzIC family protein	Chromosome (NC_003997)	NP_844157.1	247155
50415	G10	BA1719	flagellar basal-body rod protein, putative	Chromosome (NC_003997)	NP_844154.1	247163
50784	G11	BA4059	2-dehydropantoate 2-reductase, putative	Chromosome (NC_003997)	NP_846299.1	247176
48788	G12	BA4086	hypothetical protein	Chromosome (NC_003997)	NP_846325.1	247188
47982	H01	BA1585	hypothetical protein	Chromosome (NC_003997)	NP_844034.1	247502
48174	H02	BA1577	hypothetical protein	Chromosome (NC_003997)	NP_844026.1	247513
50792	H03	BA3964	translation elongation factor Ts	Chromosome (NC_003997)	NP_846207.1	247521
48803	H04	BA3995	hypothetical protein	Chromosome (NC_003997)	NP_846237.1	247531
49256	H05	BA4005	polypeptide deformylase	Chromosome (NC_003997)	NP_846247.1	247542
51574	H06	BA4007	phosphopantothenoylcysteine decarboxylase/phosphopantotenate--c	Chromosome (NC_003997)	NP_846249.1	247551

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49843	H07	BA4009	guanylate kinase, putative	Chromosome (NC_003997)	NP_846251.1	247565
47805	H08	BA4083	hypothetical protein	Chromosome (NC_003997)	NP_846322.1	247146
48021	H09	BA1703	hypothetical protein	Chromosome (NC_003997)	NP_844141.1	247156
48326	H10	BA4105	hypothetical protein	Chromosome (NC_003997)	NP_846344.1	247165
48453	H11	BA4106	hypothetical protein	Chromosome (NC_003997)	NP_846345.1	247177

Table 23: *Bacillus anthracis* Gateway® Clone, Plate 23 (QMG002864), NR-19747¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49000	A02	BA4084	hypothetical protein	Chromosome (NC_003997)	NP_846323.1	247197
49232	A03	BA1667	hypothetical protein	Chromosome (NC_003997)	NP_844113.1	247210
47844	A04	BA3678	spore coat protein K	Chromosome (NC_003997)	NP_845941.1	241194
50678	A05	BA3247	hypothetical protein	Chromosome (NC_003997)	NP_845548.1	241205
48625	A06	BA3227	hypothetical protein	Chromosome (NC_003997)	NP_845533.1	241123
51103	A07	BA3251	3-oxoacyl-(acyl-carrier-protein) synthase III, putative	Chromosome (NC_003997)	NP_845551.1	241134
49113	A08	BA3198	glyoxalase family protein	Chromosome (NC_003997)	NP_845508.1	241144
51688	A09	BA3201	TPR domain protein	Chromosome (NC_003997)	NP_845511.1	241157
49691	A10	BA3239	hypothetical protein	Chromosome (NC_003997)	NP_845543.1	241170
47653	A11	BA0207	hypothetical protein	Chromosome (NC_003997)	NP_842768.1	247662
48012	A12	BA4438	hypothetical protein	Chromosome (NC_003997)	NP_846666.1	247672
48784	B01	BA1710	flagellar motor switch protein FliN, putative	Chromosome (NC_003997)	NP_844145.1	247189
49002	B02	BA1675	flagellar basal-body rod protein FlgC	Chromosome (NC_003997)	NP_844120.1	247199
49271	B03	BA4060	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846300.1	247211
50321	B04	BA3191	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845501.1	241195
48491	B05	BA3203	hypothetical protein	Chromosome (NC_003997)	NP_845513.1	241206
50941	B06	BA3189	adhesion lipoprotein	Chromosome (NC_003997)	NP_845499.1	241124
48903	B07	BA3176	hypothetical protein	Chromosome (NC_003997)	NP_845486.1	241135
49128	B08	BA3713	hut operon transcriptional activator	Chromosome (NC_003997)	NP_845976.1	241146
49431	B09	BA3181	hypothetical protein	Chromosome (NC_003997)	NP_845491.1	241158
49708	B10	BA3253	hypothetical protein	Chromosome (NC_003997)	NP_845553.1	241172
49820	B11	BA1522	membrane protein, putative	Chromosome (NC_003997)	NP_843973.1	247663
48031	B12	BA0192	lipoprotein, putative	Chromosome (NC_003997)	NP_842755.1	247673
51152	C01	BA1679	flagellar motor switch protein FliG	Chromosome (NC_003997)	NP_844122.1	247190
49035	C02	BA4110	hypothetical protein	Chromosome (NC_003997)	NP_846349.1	247200
49345	C03	BA1666	hypothetical protein	Chromosome (NC_003997)	NP_844112.1	247213
47926	C04	BA3222	hypothetical protein	Chromosome (NC_003997)	NP_845529.1	241196
48492	C05	BA3235	hypothetical protein	Chromosome (NC_003997)	NP_845540.1	241115
48624	C06	BA1292	transcriptional regulator SinR	Chromosome (NC_003997)	NP_843761.1	241125
51118	C07	BA3236	pyridoxal phosphate-dependent deaminase, putative	Chromosome (NC_003997)	NP_845541.1	241136
51310	C08	BA3250	hypothetical protein	Chromosome (NC_003997)	NP_845550.1	241147
49468	C09	BA3210	hypothetical protein	Chromosome (NC_003997)	NP_845520.1	241160
49780	C10	BA3192	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_845502.1	241174

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47652	C11	BA0206	hypothetical protein	Chromosome (NC_003997)	NP_842767.1	247664
50270	C12	BA0197	pyrroline-5-carboxylate reductase, putative	Chromosome (NC_003997)	NP_842760.1	247676
48804	D01	BA4056	cell division protein FtsL	Chromosome (NC_003997)	NP_846296.1	247191
49034	D02	BA4109	prophage LambdaBa02, fosfomycin resistance protein	Chromosome (NC_003997)	NP_846348.1	247201
49401	D03	BA4108	hypothetical protein	Chromosome (NC_003997)	NP_846347.1	247215
48071	D04	BA3209	hypothetical protein	Chromosome (NC_003997)	NP_845519.1	241198
48504	D05	BA3242	hypothetical protein	Chromosome (NC_003997)	NP_845544.1	241117
50979	D06	BA3714	hypothetical protein	Chromosome (NC_003997)	NP_845977.1	241126
48923	D07	BA3208	glyoxylase family protein	Chromosome (NC_003997)	NP_845518.1	241137
49126	D08	BA3205	transcriptional regulator, AsnC family	Chromosome (NC_003997)	NP_845515.1	241148
49528	D09	BA3226	hypothetical protein	Chromosome (NC_003997)	NP_845532.1	241162
49781	D10	BA3238	hypothetical protein	Chromosome (NC_003997)	NP_845542.1	241176
49863	D11	BA4440	membrane protein, putative	Chromosome (NC_003997)	NP_846668.1	247665
48119	D12	BA4415	stage III sporulation protein AC	Chromosome (NC_003997)	NP_846643.1	247677
48823	E01	BA1672	flagellar protein FlhS, putative	Chromosome (NC_003997)	NP_844117.1	247193
49059	E02	BA4074	prophage LambdaBa02, holin, putative	Chromosome (NC_003997)	NP_846313.1	247202
49400	E03	BA4061	DNA-binding protein, putative	Chromosome (NC_003997)	NP_846301.1	247216
50611	E04	BA3195	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845505.1	241199
50782	E05	BA3187	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_845497.1	241118
48714	E06	BA3675	hypothetical protein	Chromosome (NC_003997)	NP_845938.1	241127
51116	E07	BA1297	spermidine/putrescine ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843765.1	241138
51392	E08	BA3254	LPXTG-motif cell wall anchor domain protein	Chromosome (NC_003997)	NP_845554.1	241149
49554	E09	BA3168	hypothetical protein	Chromosome (NC_003997)	NP_845482.1	241164
49794	E10	BA3225	hypothetical protein	Chromosome (NC_003997)	NP_845531.1	241178
47794	E11	BA0211	hypothetical protein	Chromosome (NC_003997)	NP_842771.1	247666
48152	E12	BA1521	hypothetical protein	Chromosome (NC_003997)	NP_843972.1	247679
51252	F01	BA1715	flagellar biosynthetic protein FlhB, putative	Chromosome (NC_003997)	NP_844150.1	247194
49114	F02	BA4087	hypothetical protein	Chromosome (NC_003997)	NP_846326.1	247203
47689	F03	BA3188	hypothetical protein	Chromosome (NC_003997)	NP_845498.1	241186
48179	F04	BA3231	hypothetical protein	Chromosome (NC_003997)	NP_845537.1	241202
48559	F05	BA3199	arsenical resistance operon repressor	Chromosome (NC_003997)	NP_845509.1	241119
50978	F06	BA3672	DNA polymerase III, epsilon subunit, putative	Chromosome (NC_003997)	NP_845935.1	241128
48974	F07	BA3196	arsenate reductase	Chromosome (NC_003997)	NP_845506.1	241139
49254	F08	BA3228	lipoprotein, putative	Chromosome (NC_003997)	NP_845534.1	241152
51831	F09	BA3230	sensor histidine kinase	Chromosome (NC_003997)	NP_845536.1	241165
49947	F10	BA3167	isochorismatase family protein	Chromosome (NC_003997)	NP_845481.1	241182
47867	F11	BA4990	hypothetical protein	Chromosome (NC_003997)	NP_847184.1	247668
48169	F12	BA0184	hypothetical protein	Chromosome (NC_003997)	NP_842747.1	247681
48983	G01	BA1674	flagellar basal-body rod protein FlgB	Chromosome (NC_003997)	NP_844119.1	247195

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49177	G02	BA1693	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_844133.1	247206
47705	G03	BA3215	hypothetical protein	Chromosome (NC_003997)	NP_845524.1	241188
50665	G04	BA1298	spermidine/putrescine ABC transporter, permease protein	Chromosome (NC_003997)	NP_843766.1	241203
50870	G05	BA3186	1,4-dihydroxy-2-naphthoate octaprenyltransferase, putative	Chromosome (NC_003997)	NP_845496.1	241120
51007	G06	BA3193	hypothetical protein	Chromosome (NC_003997)	NP_845503.1	241130
51210	G07	BA3174	hypothetical protein	Chromosome (NC_003997)	NP_845484.1	241140
49269	G08	BA3211	hypothetical protein	Chromosome (NC_003997)	NP_845521.1	241154
49593	G09	BA3185	streptothricin acetyltransferase, putative	Chromosome (NC_003997)	NP_845495.1	241166
49756	G10	BA2651	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845013.1	247660
49965	G11	BA0199	nucleoside transporter, PnuC family	Chromosome (NC_003997)	NP_842762.1	247669
48189	G12	BA0203	hypothetical protein	Chromosome (NC_003997)	-	247683
51330	H01	BA4050	stage V sporulation protein E	Chromosome (NC_003997)	NP_846290.1	247196
51853	H02	BA4081	hypothetical protein	Chromosome (NC_003997)	NP_846320.1	247209
47769	H03	BA1293	SinI protein	Chromosome (NC_003997)	NP_843762.1	241192
48462	H04	BA3175	hypothetical protein	Chromosome (NC_003997)	NP_845485.1	241204
48560	H05	BA3218	hypothetical protein	Chromosome (NC_003997)	NP_845525.1	241121
48800	H06	BA3184	hypothetical protein	Chromosome (NC_003997)	NP_845494.1	241131
49055	H07	BA3234	lipoprotein, putative	Chromosome (NC_003997)	NP_845539.1	241143
49313	H08	BA3194	lipoprotein, putative	Chromosome (NC_003997)	NP_845504.1	241156
49677	H09	BA3674	ahpC/TSA family protein	Chromosome (NC_003997)	NP_845937.1	241168
47619	H10	BA0198	hypothetical protein	Chromosome (NC_003997)	NP_842761.1	247661
48002	H11	BA1524	hypothetical protein	Chromosome (NC_003997)	NP_843975.1	247670

Table 24: *Bacillus anthracis* Gateway® Clone, Plate 24 (QMG002865), NR-19748¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48517	A02	BA4414	stage III sporulation protein AD	Chromosome (NC_003997)	NP_846642.1	247695
48890	A03	BA4432	rhodanese-like domain protein	Chromosome (NC_003997)	NP_846660.1	247705
49246	A04	BA0770	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843292.1	247717
49609	A05	BA4421	translation elongation factor P	Chromosome (NC_003997)	NP_846649.1	247729
49716	A06	BA0771	hypothetical protein	Chromosome (NC_003997)	NP_843293.1	247743
47967	A07	BA3437	hypothetical protein	Chromosome (NC_003997)	NP_845721.1	248095
50277	A08	BA3458	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_845741.1	248106
48627	A09	BA3475	hypothetical protein	Chromosome (NC_003997)	NP_845756.1	248119
50998	A10	BA3435	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_845719.1	248131
51296	A11	BA3445	BNR repeat domain protein	Chromosome (NC_003997)	NP_845728.1	248145
49466	A12	BA2937	hypothetical protein	Chromosome (NC_003997)	NP_845273.1	248157
48335	B01	BA1527	hypothetical protein	Chromosome (NC_003997)	NP_843978.1	247684
50824	B02	BA0191	transcriptional regulator, AraC family	Chromosome (NC_003997)	NP_842754.1	247696
51037	B03	BA0210	transporter, EamA family	Chromosome (NC_003997)	NP_842770.1	247706

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51196	B04	BA1526	glycerol-3-phosphate dehydrogenase (NAD(P)+)	Chromosome (NC_003997)	NP_843977.1	247718
49614	B05	BA0776	rhodanese domain protein	Chromosome (NC_003997)	NP_843298.1	247731
47645	B06	BA2957	hypothetical protein	Chromosome (NC_003997)	NP_845292.1	248085
50092	B07	BA2941	hypothetical protein	Chromosome (NC_003997)	NP_845277.1	248096
48322	B08	BA3411	hypothetical protein	Chromosome (NC_003997)	NP_845695.1	248109
50644	B09	BA3446	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_845729.1	248120
51022	B10	BA3391	hypothetical protein	Chromosome (NC_003997)	NP_845677.1	248133
49277	B11	BA3449	hypothetical protein	Chromosome (NC_003997)	NP_845732.1	248146
49553	B12	BA2939	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845275.1	248159
48363	C01	BA4437	hypothetical protein	Chromosome (NC_003997)	NP_846665.1	247686
48541	C02	BA4420	hypothetical protein	Chromosome (NC_003997)	NP_846648.1	247697
51071	C03	BA4433	sugar-binding transcriptional regulator, LacI family	Chromosome (NC_003997)	NP_846661.1	247708
49337	C04	BA4424	hypothetical protein	Chromosome (NC_003997)	NP_846652.1	247719
49646	C05	BA4995	site-specific recombinase, phage integrase family	Chromosome (NC_003997)	NP_847189.1	247733
49977	C06	BA3486	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_845766.1	248088
48059	C07	BA3388	hypothetical protein	Chromosome (NC_003997)	NP_845674.1	248097
50366	C08	BA3406	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845690.1	248110
50643	C09	BA3396	hypothetical protein	Chromosome (NC_003997)	NP_845682.1	248122
49005	C10	BA3453	rrf2 family protein	Chromosome (NC_003997)	NP_845736.1	248136
51414	C11	BA3410	membrane protein, putative	Chromosome (NC_003997)	NP_845694.1	248148
49605	C12	BA3476	hypothetical protein	Chromosome (NC_003997)	NP_845757.1	248163
50637	D01	BA4431	lipoate-protein ligase A, putative	Chromosome (NC_003997)	NP_846659.1	247687
48643	D02	BA4443	hypothetical protein	Chromosome (NC_003997)	NP_846671.1	247700
49051	D03	BA4988	hypothetical protein	Chromosome (NC_003997)	NP_847182.1	247709
49364	D04	BA4994	trkA domain protein	Chromosome (NC_003997)	NP_847188.1	247721
49650	D05	BA1532	GTP cyclohydrolase I	Chromosome (NC_003997)	NP_843983.1	247734
47820	D06	BA3413	hypothetical protein	Chromosome (NC_003997)	NP_845697.1	248089
50148	D07	BA2940	hypothetical protein	Chromosome (NC_003997)	NP_845276.1	248098
48351	D08	BA3398	hypothetical protein	Chromosome (NC_003997)	NP_845683.1	248111
48682	D09	BA3452	hypothetical protein	Chromosome (NC_003997)	NP_845735.1	248123
49022	D10	BA3464	hypothetical protein	Chromosome (NC_003997)	NP_845746.1	248138
49314	D11	BA3450	glyoxalase family protein	Chromosome (NC_003997)	NP_845733.1	248149
49632	D12	BA3472	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845754.1	248167
48377	E01	BA0775	hypothetical protein	Chromosome (NC_003997)	NP_843297.1	247688
48671	E02	BA4435	sugE protein	Chromosome (NC_003997)	NP_846663.1	247701
51101	E03	BA2647	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_845009.1	247710
49395	E04	BA2652	hypothetical protein	Chromosome (NC_003997)	NP_845014.1	247723
49659	E05	BA2654	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_845016.1	247736
49996	E06	BA3490	transcriptional regulator, DeoR family	Chromosome (NC_003997)	NP_845770.1	248090
48115	E07	BA3455	hypothetical protein	Chromosome (NC_003997)	NP_845738.1	248099
48362	E08	BA3488	hypothetical protein	Chromosome (NC_003997)	NP_845768.1	248113
48711	E09	BA3462	hypothetical protein	Chromosome (NC_003997)	NP_845744.1	248124
49056	E10	BA3393	hypothetical protein	Chromosome (NC_003997)	NP_845679.1	248140

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49325	E11	BA3403	membrane protein, putative	Chromosome (NC_003997)	NP_845688.2	248151
51770	E12	BA3482	hypothetical protein	Chromosome (NC_003997)	NP_845763.1	248168
50673	F01	BA0200	transporter, putative	Chromosome (NC_003997)	NP_842763.1	247691
50913	F02	BA4417	stage III sporulation protein AA	Chromosome (NC_003997)	NP_846645.1	247702
51150	F03	BA0186	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_842749.1	247712
49447	F04	BA4416	stage III sporulation protein AB	Chromosome (NC_003997)	NP_846644.1	247725
49681	F05	BA4434	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_846662.1	247737
47843	F06	BA3407	hypothetical protein	Chromosome (NC_003997)	NP_845691.1	248091
48147	F07	BA3468	hypothetical protein	Chromosome (NC_003997)	NP_845750.1	248103
48371	F08	BA2942	lipoprotein, putative	Chromosome (NC_003997)	NP_845278.1	248115
50828	F09	BA3469	phenazine biosynthesis protein, PhzF family	Chromosome (NC_003997)	NP_845751.1	248125
49222	F10	BA3412	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845696.1	248142
51459	F11	BA3409	1-deoxy-D-xylulose 5-phosphate reductoisomerase	Chromosome (NC_003997)	NP_845693.1	248152
49631	F12	BA3402	maltose O-acetyltransferase	Chromosome (NC_003997)	NP_845687.1	248169
48416	G01	BA1531	DNA-binding protein HU	Chromosome (NC_003997)	NP_843982.1	247692
48740	G02	BA4418	hypothetical protein	Chromosome (NC_003997)	NP_846646.1	247703
49133	G03	BA4423	3-dehydroquinone dehydratase, type II	Chromosome (NC_003997)	NP_846651.1	247713
51513	G04	BA4993	sodium/hydrogen exchanger family protein	Chromosome (NC_003997)	NP_847187.1	247726
49694	G05	BA4419	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846647.1	247739
47880	G06	BA3454	hypothetical protein	Chromosome (NC_003997)	NP_845737.1	248093
50227	G07	BA3483	hypothetical protein	Chromosome (NC_003997)	NP_845764.1	248104
50593	G08	BA3465	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_845747.1	248116
48787	G09	BA3389	hypothetical protein	Chromosome (NC_003997)	NP_845675.1	248128
51265	G10	BA3400	ROK family protein	Chromosome (NC_003997)	NP_845685.1	248143
49372	G11	BA2938	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845274.1	248153
49745	G12	BA3487	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845767.1	248172
48511	H01	BA0193	hypothetical protein	Chromosome (NC_003997)	NP_842756.1	247693
51019	H02	BA2656	hypothetical protein	Chromosome (NC_003997)	NP_845017.1	247704
49238	H03	BA0190	lipoprotein, putative	Chromosome (NC_003997)	NP_842753.1	247715
51546	H04	BA4992	permease, putative	Chromosome (NC_003997)	NP_847186.1	247728
49717	H05	BA0772	hypothetical protein	Chromosome (NC_003997)	NP_843294.1	247741
50042	H06	BA2946	membrane protein, putative	Chromosome (NC_003997)	NP_845282.1	248094
48146	H07	BA3439	hypothetical protein	Chromosome (NC_003997)	NP_845723.1	248105
48435	H08	BA3479	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_845760.1	248117
48842	H09	BA3491	hypothetical protein	Chromosome (NC_003997)	NP_845771.1	248130
49270	H10	BA3448	4-oxalocrotonate tautomerase family protein	Chromosome (NC_003997)	NP_845731.1	248144
49469	H11	BA3481	hypothetical protein	Chromosome (NC_003997)	NP_845762.1	248155

Table 25: *Bacillus anthracis* Gateway® Clone, Plate 25 (QMG002866), NR-19749¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47750	A02	BA1962	hypothetical protein	Chromosome (NC_003997)	NP_844370.1	246085
48196	A03	BA4265	hypothetical protein	Chromosome (NC_003997)	NP_846499.1	246097
50733	A04	BA1916	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_844325.1	246106
50903	A05	BA1925	cobalamin synthesis protein/P47K family protein	Chromosome (NC_003997)	NP_844334.1	246116
49432	A06	BA4258	5-methylthio-3-oxo-1-penten-1,2-diol dioxygenase, putative	Chromosome (NC_003997)	NP_846493.1	246129
49736	A07	BA4762	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_846968.1	246143
50292	A08	BA4310	hypothetical protein	Chromosome (NC_003997)	NP_846543.1	246167
47939	A09	BA4486	hypothetical protein	Chromosome (NC_003997)	NP_846711.1	247327
50741	A10	BA0274	hypothetical protein	Chromosome (NC_003997)	NP_842826.1	247336
50987	A11	BA4495	phosphate ABC transporter, permease protein	Chromosome (NC_003997)	NP_846720.1	247346
51191	A12	BA0312	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842861.1	247358
49783	B01	BA3444	hypothetical protein	Chromosome (NC_003997)	NP_845727.1	248173
50440	B02	BA4761	enoyl-CoA hydratase/isomerase family protein	Chromosome (NC_003997)	NP_846967.1	246086
50596	B03	BA1961	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_844369.1	246098
50744	B04	BA1960	aminoglycoside 6-adenylyltransferase, putative	Chromosome (NC_003997)	NP_844368.1	246108
49031	B05	BA1910	glyoxalase family protein	Chromosome (NC_003997)	NP_844320.1	246117
49457	B06	BA4280	hypothetical protein	Chromosome (NC_003997)	NP_846514.1	246131
49790	B07	BA1919	hypothetical protein	Chromosome (NC_003997)	NP_844328.1	246145
47660	B08	BA4518	hypothetical protein	Chromosome (NC_003997)	NP_846741.1	247314
50559	B09	BA4520	hypothetical protein	Chromosome (NC_003997)	NP_846743.1	247328
48354	B10	BA4507	hypothetical protein	Chromosome (NC_003997)	NP_846732.1	247337
48744	B11	BA0254	transcriptional regulator, PemK family	Chromosome (NC_003997)	NP_842807.1	247347
48954	B12	BA4525	cytidine deaminase	Chromosome (NC_003997)	NP_846748.1	247359
47633	C01	BA4279	hypothetical protein	Chromosome (NC_003997)	NP_846513.1	246077
47891	C02	BA4250	hypothetical protein	Chromosome (NC_003997)	NP_846485.1	246089
48250	C03	BA4312	hypothetical protein	Chromosome (NC_003997)	NP_846545.1	246099
48806	C04	BA4266	hypothetical protein	Chromosome (NC_003997)	NP_846500.1	246109
49076	C05	BA1917	rrf2 family protein	Chromosome (NC_003997)	NP_844326.1	246119
49531	C06	BA4316	mutT/nudix family protein	Chromosome (NC_003997)	NP_846549.1	246133
49845	C07	BA4264	nitroreductase family protein	Chromosome (NC_003997)	NP_846498.1	246147
50223	C08	BA0275	hypothetical protein	Chromosome (NC_003997)	NP_842827.1	247315
48032	C09	BA0264	lipoprotein, putative	Chromosome (NC_003997)	NP_842817.1	247329
50821	C10	BA4508	endonuclease IV	Chromosome (NC_003997)	NP_846733.1	247338
48753	C11	BA4526	diacylglycerol kinase	Chromosome (NC_003997)	NP_846749.1	247349
49087	C12	BA0279	hypothetical protein	Chromosome (NC_003997)	NP_842830.1	247361
47659	D01	BA4262	hypothetical protein	Chromosome (NC_003997)	NP_846496.1	246079
48028	D02	BA4277	hypothetical protein	Chromosome (NC_003997)	NP_846511.1	246091
50671	D03	BA4270	transcription antiterminator GlcT	Chromosome (NC_003997)	NP_846504.1	246100
48831	D04	BA4281	ribT protein	Chromosome (NC_003997)	NP_846515.1	246111

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51027	D05	BA1907	sodium/bile acid symporter family protein	Chromosome (NC_003997)	NP_844318.1	246120
49551	D06	BA1904	membrane protein, putative	Chromosome (NC_003997)	NP_844315.1	246135
51630	D07	BA1906	membrane protein, putative	Chromosome (NC_003997)	NP_844317.1	246148
47825	D08	BA4523	hypothetical protein	Chromosome (NC_003997)	NP_846746.1	247318
50567	D09	BA4493	phosphate ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846718.1	247330
48467	D10	BA0266	chaperonin, 10 kDa	Chromosome (NC_003997)	NP_842819.1	247339
51012	D11	BA4529	PhoH family protein	Chromosome (NC_003997)	NP_846752.1	247350
51276	D12	BA4477	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophosphoryl	Chromosome (NC_003997)	NP_846702.1	247362
50416	E01	BA1933	branched-chain amino acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844342.1	246080
50476	E02	BA1937	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_844346.1	246092
48385	E03	BA4268	phosphocarrier protein HPr	Chromosome (NC_003997)	NP_846502.1	246101
50843	E04	BA4275	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_846509.1	246112
49116	E05	BA4283	peptidyl-prolyl cis-trans isomerase, cyclophilin-type	Chromosome (NC_003997)	NP_846517.1	246121
49567	E06	BA1938	hypothetical protein	Chromosome (NC_003997)	NP_844347.1	246137
49851	E07	BA1913	hypothetical protein	Chromosome (NC_003997)	NP_844322.1	246149
47849	E08	BA4490	ribosomal protein L33	Chromosome (NC_003997)	NP_846715.1	247321
48099	E09	BA4488	hypothetical protein	Chromosome (NC_003997)	NP_846713.1	247331
48476	E10	BA0253	hypothetical protein	Chromosome (NC_003997)	NP_842806.1	247341
51086	E11	BA4487	glucokinase	Chromosome (NC_003997)	NP_846712.1	247352
49104	E12	BA0260	ribosomal-protein-alanine acetyltransferase	Chromosome (NC_003997)	NP_842813.1	247363
47677	F01	BA1932	hypothetical protein	Chromosome (NC_003997)	NP_844341.1	246081
48143	F02	BA1963	hypothetical protein	Chromosome (NC_003997)	NP_844371.1	246093
48440	F03	BA4259	hypothetical protein	Chromosome (NC_003997)	NP_846494.1	246103
48959	F04	BA1929	maoC family protein	Chromosome (NC_003997)	NP_844338.1	246113
51049	F05	BA1900	BNR repeat domain protein	Chromosome (NC_003997)	NP_844311.1	246122
51504	F06	BA4254	aminotransferase, classes I and II	Chromosome (NC_003997)	NP_846489.1	246138
51713	F07	BA4263	sensory box/GGDEF family protein, putative	Chromosome (NC_003997)	NP_846497.1	246152
50399	F08	BA0308	membrane protein, putative	Chromosome (NC_003997)	NP_842857.1	247322
50655	F09	BA0301	SPFH domain/band 7 family protein	Chromosome (NC_003997)	NP_842851.1	247332
50891	F10	BA4496	phosphate ABC transporter, phosphate-binding protein	Chromosome (NC_003997)	NP_846721.1	247342
48857	F11	BA4475	hypothetical protein	Chromosome (NC_003997)	NP_846700.1	247355
51377	F12	BA4480	cystathionine beta-lyase	Chromosome (NC_003997)	NP_846705.1	247366
50431	G01	BA1914	hypothetical protein	Chromosome (NC_003997)	NP_844323.1	246082
48184	G02	BA4282	hypothetical protein	Chromosome (NC_003997)	NP_846516.1	246095
50725	G03	BA4284	hypothetical protein	Chromosome (NC_003997)	NP_846518.1	246104
50850	G04	BA1915	transporter, EamA family	Chromosome (NC_003997)	NP_844324.1	246114
49194	G05	BA4313	transcriptional regulator, Fur family	Chromosome (NC_003997)	NP_846546.1	246125
49582	G06	BA4315	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_846548.1	246139

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49957	G07	BA4314	stage II sporulation protein M	Chromosome (NC_003997)	NP_846547.1	246155
47903	G08	BA4519	hypothetical protein	Chromosome (NC_003997)	NP_846742.1	247323
50726	G09	BA4494	phosphate ABC transporter, permease protein	Chromosome (NC_003997)	NP_846719.1	247334
48569	G10	BA4476	hypothetical protein	Chromosome (NC_003997)	NP_846701.1	247343
51174	G11	BA0261	O-sialoglycoprotein endopeptidase	Chromosome (NC_003997)	NP_842814.1	247356
49224	G12	BA4482	isochorismatase family protein	Chromosome (NC_003997)	NP_846707.1	247367
47701	H01	BA1959	hypothetical protein	Chromosome (NC_003997)	NP_844367.1	246083
50535	H02	BA4271	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_846505.1	246096
48620	H03	BA1920	hypothetical protein	Chromosome (NC_003997)	NP_844329.1	246105
48984	H04	BA1939	hypothetical protein	Chromosome (NC_003997)	NP_844348.1	246115
49209	H05	BA4289	stage V sporulation protein AC	Chromosome (NC_003997)	NP_846522.1	246127
49731	H06	BA1927	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844336.1	246141
50146	H07	BA1934	branched-chain amino acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844343.1	246163
47895	H08	BA0300	hypothetical protein	Chromosome (NC_003997)	NP_842850.1	247325
48345	H09	BA0292	phosphoribosylformylglycinamide synthase, PurS protein	Chromosome (NC_003997)	NP_842842.1	247335
50988	H10	BA4511	penicillin tolerance protein LytB	Chromosome (NC_003997)	NP_846735.1	247344
48861	H11	BA0302	hypothetical protein	Chromosome (NC_003997)	NP_842852.1	247357

Table 26: *Bacillus anthracis* Gateway[®] Clone, Plate 26 (QMG002867), NR-19750¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49655	A02	BA0249	rhomboid family protein	Chromosome (NC_003997)	NP_842802.1	247379
50115	A03	BA0259	hypothetical protein	Chromosome (NC_003997)	NP_842812.1	247395
47855	A04	BA0455	hypothetical protein	Chromosome (NC_003997)	NP_842996.1	246444
48194	A05	BA2337	hypothetical protein	Chromosome (NC_003997)	NP_844721.1	246462
50819	A06	BA2336	protein export protein prsA	Chromosome (NC_003997)	NP_844720.1	246475
48751	A07	BA2327	hypothetical protein	Chromosome (NC_003997)	NP_844712.1	246486
51429	A08	BA4663	aminotransferase, class V	Chromosome (NC_003997)	NP_846878.1	246497
49203	A09	BA2313	hypothetical protein	Chromosome (NC_003997)	NP_844698.1	246507
50589	A10	BA5677	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_847824.2	240675
48474	A11	BA5643	hypothetical protein	Chromosome (NC_003997)	NP_847792.1	240686
48896	A12	BA5683	gtrA family protein	Chromosome (NC_003997)	NP_847829.1	240702
49258	B01	BA4527	conserved hypothetical protein TIGR00043	Chromosome (NC_003997)	NP_846750.1	247369
49695	B02	BA4489	5-formyltetrahydrofolate cyclo-ligase family protein	Chromosome (NC_003997)	NP_846714.1	247381
47638	B03	BA0460	hypothetical protein	Chromosome (NC_003997)	NP_842999.1	246434
50071	B04	BA4685	DNA repair protein RadC	Chromosome (NC_003997)	NP_846899.1	246445
48358	B05	BA2357	hypothetical protein	Chromosome (NC_003997)	NP_844739.1	246466
48570	B06	BA4676	ribosomal protein L21	Chromosome (NC_003997)	NP_846890.1	246476
48793	B07	BA0475	hypothetical protein	Chromosome (NC_003997)	NP_843014.1	246489
48948	B08	BA2326	hypothetical protein	Chromosome (NC_003997)	NP_844711.1	246498
49284	B09	BA0482	hypothetical protein	Chromosome (NC_003997)	NP_843021.1	246509

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47747	B10	BA3329	hypothetical protein	Chromosome (NC_003997)	NP_845617.1	240676
48497	B11	BA5101	hypothetical protein	Chromosome (NC_003997)	NP_847288.1	240688
51053	B12	BA5636	phosphate acetyltransferase	Chromosome (NC_003997)	NP_847786.1	240703
49261	C01	BA0258	conserved hypothetical protein TIGR00150	Chromosome (NC_003997)	NP_842811.1	247371
49824	C02	BA4499	superoxide dismutase, Mn	Chromosome (NC_003997)	NP_846724.1	247383
49740	C03	BA0467	prophage LambdaBa04, prohead protease, putative	Chromosome (NC_003997)	NP_843006.1	246435
47881	C04	BA0480	hypothetical protein	Chromosome (NC_003997)	NP_843019.1	246446
48368	C05	BA2333	hypothetical protein	Chromosome (NC_003997)	NP_844717.1	246468
48648	C06	BA0473	hypothetical protein	Chromosome (NC_003997)	NP_843012.1	246478
51270	C07	BA2356	enoyl-CoA hydratase/isomerase family protein	Chromosome (NC_003997)	NP_844738.1	246490
51451	C08	BA2315	S-layer protein, putative	Chromosome (NC_003997)	NP_844700.1	246499
49518	C09	BA2334	hypothetical protein	Chromosome (NC_003997)	NP_844718.1	246513
48038	C10	BA3325	hypothetical protein	Chromosome (NC_003997)	NP_845613.1	240678
50708	C11	BA5104	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_847290.1	240689
48915	C12	BA3359	hypothetical protein	Chromosome (NC_003997)	NP_845645.1	240704
51472	D01	BA4481	cystathionine beta-lyase	Chromosome (NC_003997)	NP_846706.1	247372
49873	D02	BA4485	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_846710.1	247385
49874	D03	BA4658	forespore-specific protein, putative	Chromosome (NC_003997)	NP_846873.1	246437
47905	D04	BA0462	prophage LambdaBa04, DNA binding protein, putative	Chromosome (NC_003997)	NP_843001.1	246448
48433	D05	BA2330	hypothetical protein	Chromosome (NC_003997)	NP_844714.1	246470
50923	D06	BA4696	porphobilinogen deaminase	Chromosome (NC_003997)	NP_846909.1	246479
48797	D07	BA2312	hypothetical protein	Chromosome (NC_003997)	NP_844697.1	246491
48963	D08	BA0450	hypothetical protein	Chromosome (NC_003997)	NP_842991.1	246500
49557	D09	BA4682	rod shape-determining protein MreD	Chromosome (NC_003997)	NP_846896.1	246517
50597	D10	BA3328	transcriptional regulator, AraC family	Chromosome (NC_003997)	NP_845616.1	240681
48510	D11	BA5647	hypothetical protein	Chromosome (NC_003997)	NP_847795.1	240690
48961	D12	BA5699	hypothetical protein	Chromosome (NC_003997)	NP_847845.1	240708
49338	E01	BA4474	hypothetical protein	Chromosome (NC_003997)	NP_846699.1	247373
49881	E02	BA0263	hypothetical protein	Chromosome (NC_003997)	NP_842816.1	247387
49898	E03	BA2355	homoserine/threonine efflux protein, putative	Chromosome (NC_003997)	NP_844737.1	246439
50177	E04	BA4671	DNA-binding response regulator	Chromosome (NC_003997)	NP_846885.1	246449
50707	E05	BA4678	stage IV sporulation protein FB	Chromosome (NC_003997)	NP_846892.1	246471
48680	E06	BA2342	hypothetical protein	Chromosome (NC_003997)	NP_844725.1	246480
48836	E07	BA0464	hypothetical protein	Chromosome (NC_003997)	NP_843003.1	246492
51531	E08	BA0468	prophage LambdaBa04, major capsid protein, putative	Chromosome (NC_003997)	NP_843007.1	246501
49573	E09	BA4673	sporulation initiation phosphotransferase, putative	Chromosome (NC_003997)	NP_846887.1	246519
48361	E10	BA3360	hypothetical protein	Chromosome (NC_003997)	NP_845646.1	240682
50771	E11	BA5697	hypothetical protein	Chromosome (NC_003997)	NP_847843.1	240693

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51112	E12	BA5649	ABC transporter, permease protein	Chromosome (NC_003997)	NP_847797.1	240709
51479	F01	BA0252	alanine racemase	Chromosome (NC_003997)	NP_842805.1	247374
49906	F02	BA4521	CBS domain protein	Chromosome (NC_003997)	NP_846744.1	247389
47790	F03	BA2331	hypothetical protein	Chromosome (NC_003997)	NP_844715.1	246440
48034	F04	BA0436	hypothetical protein	Chromosome (NC_003997)	NP_842977.1	246456
48496	F05	BA4674	ribosomal protein L27	Chromosome (NC_003997)	NP_846888.1	246472
51024	F06	BA4688	stage II sporulation protein B, putative	Chromosome (NC_003997)	NP_846901.1	246481
51391	F07	BA2348	citrate synthase MmgD	Chromosome (NC_003997)	NP_844731.1	246493
48985	F08	BA2338	hypothetical protein	Chromosome (NC_003997)	NP_844722.1	246502
49647	F09	BA0474	prophage LambdaBa04, major tail protein, putative	Chromosome (NC_003997)	NP_843013.1	246521
50598	F10	BA3370	ribonuclease	Chromosome (NC_003997)	NP_845656.1	240683
48607	F11	BA3327	hypothetical protein	Chromosome (NC_003997)	NP_845615.2	240694
49052	F12	BA5640	cell wall hydrolase	Chromosome (NC_003997)	NP_847789.1	240710
51537	G01	BA0307	lipoprotein, putative	Chromosome (NC_003997)	NP_842856.1	247376
49989	G02	BA4492	phosphate transport system regulatory protein PhoU, putative	Chromosome (NC_003997)	NP_846717.1	247391
47827	G03	BA0463	hypothetical protein	Chromosome (NC_003997)	NP_843002.1	246442
50439	G04	BA4669	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846884.1	246457
50798	G05	BA2353	2-hydroxy-3-oxopropionate reductase	Chromosome (NC_003997)	NP_844735.1	246473
48679	G06	BA2340	hypothetical protein	Chromosome (NC_003997)	NP_844723.1	246482
48853	G07	BA0453	hypothetical protein	Chromosome (NC_003997)	NP_842993.1	246494
51703	G08	BA4672	spo0B-associated GTP-binding protein	Chromosome (NC_003997)	NP_846886.1	246504
49682	G09	BA4686	septum formation protein MaF	Chromosome (NC_003997)	NP_846900.1	246523
48434	G10	BA3381	hypothetical protein	Chromosome (NC_003997)	NP_845667.1	240684
48768	G11	BA3371	hypothetical protein	Chromosome (NC_003997)	NP_845657.1	240696
51180	G12	BA3332	S-layer protein, putative	Chromosome (NC_003997)	NP_845620.1	240711
49627	H01	BA0311	isochorismatase family protein	Chromosome (NC_003997)	NP_842860.1	247377
50088	H02	BA0293	Phosphoribosylformylglycinamide synthase I	Chromosome (NC_003997)	NP_842843.1	247393
49987	H03	BA2328	hypothetical protein	Chromosome (NC_003997)	NP_844713.1	246443
48057	H04	BA2335	hypothetical protein	Chromosome (NC_003997)	NP_844719.1	246458
48534	H05	BA0461	prophage LambdaBa04, Gp54	Chromosome (NC_003997)	NP_843000.1	246474
48729	H06	BA4675	hypothetical protein	Chromosome (NC_003997)	NP_846889.1	246484
48949	H07	BA2332	hypothetical protein	Chromosome (NC_003997)	NP_844716.1	246496
49184	H08	BA4699	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_846912.1	246505
47735	H09	BA3384	hypothetical protein	Chromosome (NC_003997)	NP_845670.1	240674
50635	H10	BA3366	lipoprotein, putative	Chromosome (NC_003997)	NP_845652.1	240685
48834	H11	BA5642	hypothetical protein	Chromosome (NC_003997)	NP_847791.1	240698

Table 27: *Bacillus anthracis* Gateway® Clone, Plate 27 (QMG002868), NR-19751¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49373	A02	BA3324	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_845612.1	240720
51365	A03	BA5105	sensor histidine kinase	Chromosome (NC_003997)	NP_847291.1	240731
50073	A04	BA5648	uracil-DNA glycosylase	Chromosome (NC_003997)	NP_847796.1	240748
49897	A05	BA1631	membrane protein, putative	Chromosome (NC_003997)	NP_844078.1	247226
50192	A06	BA0287	DNA-binding response regulator	Chromosome (NC_003997)	NP_842837.1	247238
48384	A07	BA4037	ylmG protein	Chromosome (NC_003997)	NP_846277.1	247249
48507	A08	BA4532	hypothetical protein	Chromosome (NC_003997)	NP_846755.1	247260
48822	A09	BA1660	chemotaxis response regulator	Chromosome (NC_003997)	NP_844107.1	247274
49322	A10	BA1625	hypothetical protein	Chromosome (NC_003997)	NP_844072.1	247292
47679	A11	BA2587	hypothetical protein	Chromosome (NC_003997)	NP_844954.1	245355
48404	A12	BA0735	hypothetical protein	Chromosome (NC_003997)	NP_843260.1	245385
49086	B01	BA5690	holin, putative	Chromosome (NC_003997)	NP_847836.1	240712
51275	B02	BA3382	pyruvate kinase	Chromosome (NC_003997)	NP_845668.1	240721
51401	B03	BA3373	DNA-binding protein	Chromosome (NC_003997)	NP_845659.1	240733
50095	B04	BA3380	NAD(P)H-flavin oxidoreductase	Chromosome (NC_003997)	NP_845666.1	240750
47922	B05	BA1688	hypothetical protein	Chromosome (NC_003997)	NP_844130.1	247227
48068	B06	BA1629	cold shock protein CspB	Chromosome (NC_003997)	NP_844076.1	247239
48399	B07	BA4547	ribosomal protein S20	Chromosome (NC_003997)	NP_846770.2	247251
50847	B08	BA0323	conserved hypothetical protein TIGR00147	Chromosome (NC_003997)	NP_842870.1	247261
48858	B09	BA4543	hypothetical protein	Chromosome (NC_003997)	NP_846766.1	247276
49318	B10	BA0288	phosphoribosylaminoimidazole carboxylase, catalytic subunit	Chromosome (NC_003997)	NP_842838.1	247294
47784	B11	BA0712	hypothetical protein	Chromosome (NC_003997)	NP_843238.1	245363
50795	B12	BA0716	phosphate ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843241.1	245386
51190	C01	BA5700	UDP-glucose 4-epimerase	Chromosome (NC_003997)	NP_847846.1	240713
49439	C02	BA5675	cytosolic long-chain acyl-CoA thioester hydrolase family protei	Chromosome (NC_003997)	NP_847822.1	240722
49676	C03	BA3358	NAD(P)H dehydrogenase, quinone family	Chromosome (NC_003997)	NP_845644.1	240734
50121	C04	BA5689	membrane protein, putative	Chromosome (NC_003997)	NP_847835.1	240752
47937	C05	BA4062	ribosomal protein L32	Chromosome (NC_003997)	NP_846302.1	247229
50234	C06	BA1649	membrane protein, putative	Chromosome (NC_003997)	NP_844096.1	247240
48445	C07	BA1638	hypothetical protein	Chromosome (NC_003997)	NP_844085.1	247253
48595	C08	BA4033	hypothetical protein	Chromosome (NC_003997)	NP_846273.1	247262
49148	C09	BA4533	gatB/Yqey domain protein	Chromosome (NC_003997)	NP_846756.1	247278
49399	C10	BA4035	cell-division initiation protein DivIVA	Chromosome (NC_003997)	NP_846275.1	247298
47912	C11	BA2589	hypothetical protein	Chromosome (NC_003997)	NP_844956.1	245367
48456	C12	BA4964	hypothetical protein	Chromosome (NC_003997)	NP_847159.1	245387
49119	D01	BA5641	hypothetical protein	Chromosome (NC_003997)	NP_847790.1	240714
51288	D02	BA3326	hypothetical protein	Chromosome (NC_003997)	NP_845614.1	240723
49748	D03	BA5634	lipoprotein, putative	Chromosome (NC_003997)	NP_847784.1	240736
50149	D04	BA3363	membrane protein, putative	Chromosome (NC_003997)	NP_845649.1	240754
47940	D05	BA4534	ribosomal protein S21	Chromosome (NC_003997)	NP_846757.1	247231
50240	D06	BA1630	hypothetical protein	Chromosome (NC_003997)	NP_844077.1	247242
48471	D07	BA4041	hypothetical protein	Chromosome (NC_003997)	NP_846281.1	247255

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50915	D08	BA0285	bacitracin ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_842835.1	247263
49168	D09	BA1651	hypothetical protein	Chromosome (NC_003997)	NP_844098.1	247280
49645	D10	BA4540	GrpE protein	Chromosome (NC_003997)	NP_846763.1	247302
47992	D11	BA5419	hypothetical protein	Chromosome (NC_003997)	NP_847589.1	245371
48443	D12	BA0736	hypothetical protein	Chromosome (NC_003997)	NP_843261.1	245389
49276	E01	BA3375	ybaK/epsC family protein	Chromosome (NC_003997)	NP_845661.1	240716
51295	E02	BA5695	nitric-oxide synthase, oxygenase subunit	Chromosome (NC_003997)	NP_847841.1	240725
49749	E03	BA5698	transporter, putative	Chromosome (NC_003997)	NP_847844.1	240738
50309	E04	BA5637	hypothetical protein	Chromosome (NC_003997)	NP_847787.1	240764
50016	E05	BA0313	ABC transporter, permease protein	Chromosome (NC_003997)	NP_842862.1	247232
48205	E06	BA1683	hypothetical protein	Chromosome (NC_003997)	NP_844125.1	247243
50608	E07	BA1641	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_844088.1	247256
50951	E08	BA4537	ribosomal protein L11 methyltransferase	Chromosome (NC_003997)	NP_846760.1	247265
49207	E09	BA4032	lipoprotein signal peptidase	Chromosome (NC_003997)	NP_846272.1	247282
49658	E10	BA1685	flagellar hook assembly protein family protein	Chromosome (NC_003997)	NP_844127.1	247304
50432	E11	BA2077	HAD-superfamily hydrolase, subfamily IIB	Chromosome (NC_003997)	NP_844477.1	245372
50825	E12	BA0715	phosphate ABC transporter, phosphate-binding protein, putative	Chromosome (NC_003997)	NP_843240.1	245390
51224	F01	BA5704	membrane protein, putative	Chromosome (NC_003997)	NP_847850.1	240717
49626	F02	BA5702	hypothetical protein	Chromosome (NC_003997)	NP_847848.1	240728
49879	F03	BA5696	superoxide dismutase, Mn	Chromosome (NC_003997)	NP_847842.1	240742
49861	F04	BA4066	hypothetical protein	Chromosome (NC_003997)	NP_846305.2	247222
50056	F05	BA4039	conserved hypothetical protein TIGR00044	Chromosome (NC_003997)	NP_846279.1	247234
50298	F06	BA0324	haloacid dehalogenase/epoxide hydrolase family protein	Chromosome (NC_003997)	NP_842871.1	247246
48487	F07	BA0320	glutamyl-tRNA(Gln) amidotransferase, C subunit	Chromosome (NC_003997)	NP_842867.1	247257
48603	F08	BA1646	hypothetical protein	Chromosome (NC_003997)	NP_844093.1	247266
51593	F09	BA1650	membrane protein, putative	Chromosome (NC_003997)	NP_844097.1	247287
49721	F10	BA1648	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_844095.1	247306
47989	F11	BA4935	hypothetical protein	Chromosome (NC_003997)	NP_847133.1	245373
48455	F12	BA4951	hypothetical protein	Chromosome (NC_003997)	NP_847148.1	245391
49293	G01	BA3368	s-adenosylmethionine:2-demethylmenaquinone methyltransferase, p	Chromosome (NC_003997)	NP_845654.1	240718
51356	G02	BA5099	pyridoxal phosphate-dependent enzyme, putative	Chromosome (NC_003997)	NP_847286.1	240729
49910	G03	BA5672	membrane protein, putative	Chromosome (NC_003997)	NP_847819.1	240744
47694	G04	BA4531	hypothetical protein	Chromosome (NC_003997)	NP_846754.1	247223
48033	G05	BA0316	hypothetical protein	Chromosome (NC_003997)	NP_842865.1	247235
48321	G06	BA1628	hypothetical protein	Chromosome (NC_003997)	NP_844075.1	247247
48501	G07	BA1632	hypothetical protein	Chromosome (NC_003997)	NP_844079.1	247258
48707	G08	BA1634	hypothetical protein	Chromosome (NC_003997)	NP_844081.1	247270
49245	G09	BA0315	hypothetical protein	Chromosome (NC_003997)	NP_842864.1	247288

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49771	G10	BA4065	prophage LambdaBa02, lipoprotein, putative	Chromosome (NC_003997)	NP_846304.1	247308
48108	G11	BA0731	hypothetical protein	Chromosome (NC_003997)	NP_843256.1	245377
50879	G12	BA2596	acetamidase/formamidase family protein	Chromosome (NC_003997)	NP_844961.1	245392
51231	H01	BA5688	membrane protein, putative	Chromosome (NC_003997)	NP_847834.1	240719
49625	H02	BA5102	hypothetical protein	Chromosome (NC_003997)	NP_847289.1	240730
49963	H03	BA5701	channel protein, hemolysin III family	Chromosome (NC_003997)	NP_847847.1	240746
47743	H04	BA1644	hypothetical protein	Chromosome (NC_003997)	NP_844091.1	247225
50062	H05	BA1659	chemotaxis protein MotB, putative	Chromosome (NC_003997)	NP_844106.1	247236
50378	H06	BA1658	chemotaxis protein MotA, putative	Chromosome (NC_003997)	NP_844105.1	247248
50684	H07	BA0314	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_842863.1	247259
48807	H08	BA4545	hypothetical protein	Chromosome (NC_003997)	NP_846768.1	247272
49302	H09	BA0318	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_842866.1	247290
49789	H10	BA1657	hypothetical protein	Chromosome (NC_003997)	NP_844104.1	247310
48208	H11	BA4957	transcriptional regulator, DeoR family	Chromosome (NC_003997)	NP_847153.1	245379

Table 28: *Bacillus anthracis* Gateway® Clone, Plate 28 (QMG002869), NR-19752¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48629	A02	BA4962	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_847157.1	245401
51394	A03	BA4939	hypothetical protein	Chromosome (NC_003997)	NP_847137.1	245412
49416	A04	BA4946	hypothetical protein	Chromosome (NC_003997)	NP_847143.1	245425
49888	A05	BA2590	hypothetical protein	Chromosome (NC_003997)	NP_844957.1	245443
48190	A06	BA0686	DNA-binding protein	Chromosome (NC_003997)	NP_843213.1	245462
48543	A07	BA4910	hypothetical protein	Chromosome (NC_003997)	NP_847108.1	245476
48956	A08	BA4924	large conductance mechanosensitive channel protein	Chromosome (NC_003997)	NP_847122.1	245489
49296	A09	BA4905	hypothetical protein	Chromosome (NC_003997)	NP_847103.1	245503
49688	A10	BA2601	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844964.1	245518
47882	A11	BA1053	hypothetical protein	Chromosome (NC_003997)	NP_843552.1	244012
48391	A12	BA1057	hypothetical protein	Chromosome (NC_003997)	NP_843555.1	244026
50912	B01	BA2588	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_844955.1	245394
51399	B02	BA0710	spore germination protein GerLB	Chromosome (NC_003997)	NP_843236.2	245402
49068	B03	BA2074	hypothetical protein	Chromosome (NC_003997)	NP_844474.1	245413
49547	B04	BA5422	ribosomal subunit interface protein	Chromosome (NC_003997)	NP_847591.1	245427
50112	B05	BA4920	DNA-binding response regulator	Chromosome (NC_003997)	NP_847118.1	245449
48272	B06	BA4927	hypothetical protein	Chromosome (NC_003997)	NP_847125.1	245463

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50936	B07	BA0668	ribose ABC transporter, permease protein	Chromosome (NC_003997)	NP_843196.1	245477
49028	B08	BA0720	CBS domain protein	Chromosome (NC_003997)	NP_843245.1	245491
49407	B09	BA0718	hypothetical protein	Chromosome (NC_003997)	NP_843243.2	245505
49755	B10	BA2584	lipoprotein, putative	Chromosome (NC_003997)	NP_844951.1	245522
50222	B11	BA5732	glucose-inhibited division protein B	Chromosome (NC_003997)	NP_847877.1	244013
48512	B12	BA1064	hypothetical protein	Chromosome (NC_003997)	NP_843559.1	244028
48588	C01	BA0746	hypothetical protein	Chromosome (NC_003997)	NP_843271.1	245395
48632	C02	BA5417	cytochrome c-551	Chromosome (NC_003997)	NP_847588.1	245403
51410	C03	BA5432	transcription antiterminator, LytR family	Chromosome (NC_003997)	NP_847600.1	245414
51675	C04	BA4960	conserved hypothetical protein TIGR00275	Chromosome (NC_003997)	NP_847155.1	245428
47869	C05	BA0722	hypothetical protein	Chromosome (NC_003997)	NP_843247.1	245452
50544	C06	BA2576	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_844943.1	245464
48556	C07	BA2563	hypothetical protein	Chromosome (NC_003997)	NP_844931.1	245478
51443	C08	BA2547	acyl-CoA dehydrogenase	Chromosome (NC_003997)	NP_844915.1	245492
51711	C09	BA0694	xanthine/uracil permease family protein	Chromosome (NC_003997)	NP_843221.1	245506
49786	C10	BA0701	quinol oxidase, subunit III	Chromosome (NC_003997)	NP_843228.1	245524
47943	C11	BA5288	hypothetical protein	Chromosome (NC_003997)	NP_847467.1	244014
48612	C12	BA5281	hypothetical protein	Chromosome (NC_003997)	NP_847460.1	244030
51029	D01	BA2075	SPFH domain/Band 7 family protein	Chromosome (NC_003997)	NP_844475.1	245396
51245	D02	BA2608	homoserine dehydrogenase, putative	Chromosome (NC_003997)	NP_844970.1	245404
49069	D03	BA2594	cell wall hydrolase	Chromosome (NC_003997)	NP_844959.1	245415
49559	D04	BA4955	2'-5' RNA ligase family protein, putative	Chromosome (NC_003997)	NP_847152.1	245429
50144	D05	BA0688	LPXTG-site transpeptidase family protein	Chromosome (NC_003997)	NP_843215.1	245453
48311	D06	BA4912	hypothetical protein	Chromosome (NC_003997)	NP_847110.1	245467
50961	D07	BA0684	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_843211.1	245479
49064	D08	BA0696	hypothetical protein	Chromosome (NC_003997)	NP_843223.1	245493
49497	D09	BA2574	hypothetical protein	Chromosome (NC_003997)	NP_844941.1	245509
49815	D10	BA2562	conserved hypothetical protein TIGR00488	Chromosome (NC_003997)	NP_844930.1	245528
50236	D11	BA3387	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845673.1	244015
50575	D12	BA5279	hypothetical protein	Chromosome (NC_003997)	NP_847458.1	244031
48599	E01	BA5428	hypothetical protein	Chromosome (NC_003997)	NP_847596.1	245397
48637	E02	BA2606	hypothetical protein	Chromosome (NC_003997)	NP_844968.1	245405
49083	E03	BA4963	hypothetical protein	Chromosome (NC_003997)	NP_847158.1	245417
49595	E04	BA4937	ribosomal-protein-serine acetyltransferase, putative	Chromosome (NC_003997)	NP_847135.1	245431
47888	E05	BA2580	hypothetical protein	Chromosome (NC_003997)	NP_844947.1	245454
48427	E06	BA4925	hypothetical protein	Chromosome (NC_003997)	NP_847123.1	245471
48577	E07	BA0700	quinol oxidase, subunit IV	Chromosome (NC_003997)	NP_843227.1	245480
49105	E08	BA0697	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843224.1	245495
49519	E09	BA2602	hypothetical protein	Chromosome (NC_003997)	NP_844965.1	245511

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49908	E10	BA4916	acetoin utilization protein AcuA	Chromosome (NC_003997)	NP_847114.1	245532
50301	E11	BA1048	ABC transporter, ATP-binding protein EcsA	Chromosome (NC_003997)	NP_843547.1	244017
50584	E12	BA3425	pentapeptide repeats domain protein	Chromosome (NC_003997)	NP_845709.1	244032
51137	F01	BA0728	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_843253.1	245398
48660	F02	BA0723	hypothetical protein	Chromosome (NC_003997)	NP_843248.1	245407
49100	F03	BA4934	lipoprotein, putative	Chromosome (NC_003997)	NP_847132.1	245419
49700	F04	BA0741	potassium-transporting ATPase, C subunit	Chromosome (NC_003997)	NP_843266.1	245435
48064	F05	BA0707	hypothetical protein	Chromosome (NC_003997)	NP_843233.1	245456
50895	F06	BA0717	phosphate ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843242.1	245472
48709	F07	BA2573	hypothetical protein	Chromosome (NC_003997)	NP_844940.1	245483
49197	F08	BA4914	lipoprotein, putative	Chromosome (NC_003997)	NP_847112.1	245497
49621	F09	BA2569	hypothetical protein	Chromosome (NC_003997)	NP_844936.1	245515
49917	F10	BA2565	hypothetical protein	Chromosome (NC_003997)	NP_844933.1	245534
50398	F11	BA5736	stage III sporulation protein J	Chromosome (NC_003997)	NP_847881.1	244021
48677	F12	BA1044	hypothetical protein	Chromosome (NC_003997)	NP_843543.1	244033
48598	G01	BA4945	thioredoxin family protein	Chromosome (NC_003997)	NP_847142.1	245399
48731	G02	BA4941	hypothetical protein	Chromosome (NC_003997)	NP_847139.1	245409
49163	G03	BA4967	transcriptional regulator, CarD family	Chromosome (NC_003997)	NP_847162.1	245421
49741	G04	BA2076	phosphoglycerate mutase family protein	Chromosome (NC_003997)	NP_844476.1	245437
50180	G05	BA0705	hypothetical protein	Chromosome (NC_003997)	NP_843232.1	245457
48518	G06	BA4926	minD family ATPase domain protein	Chromosome (NC_003997)	NP_847124.1	245473
51186	G07	BA4930	lipoprotein, putative	Chromosome (NC_003997)	NP_847128.1	245486
49262	G08	BA0687	hypothetical protein	Chromosome (NC_003997)	NP_843214.1	245499
51855	G09	BA0693	amino acid permease family protein	Chromosome (NC_003997)	NP_843220.1	245516
47782	G10	BA5738	ribosomal protein L34	Chromosome (NC_003997)	NP_847883.1	244006
48287	G11	BA3419	hypothetical protein	Chromosome (NC_003997)	NP_845703.1	244022
48794	G12	BA1046	hypothetical protein	Chromosome (NC_003997)	NP_843545.1	244037
51192	H01	BA0733	hesA/moeB/thiF family protein	Chromosome (NC_003997)	NP_843258.1	245400
48978	H02	BA4936	hypothetical protein	Chromosome (NC_003997)	NP_847134.1	245411
49166	H03	BA0744	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843269.1	245423
49830	H04	BA4943	tRNA binding domain protein, putative	Chromosome (NC_003997)	NP_847140.1	245439
48081	H05	BA0695	DNA-binding protein	Chromosome (NC_003997)	NP_843222.1	245460
48525	H06	BA2545	hypothetical protein	Chromosome (NC_003997)	NP_844913.1	245474
48860	H07	BA4928	hypothetical protein	Chromosome (NC_003997)	NP_847126.1	245487
49288	H08	BA2571	hypothetical protein	Chromosome (NC_003997)	NP_844938.1	245501
49674	H09	BA2578	mutT/nudix family protein	Chromosome (NC_003997)	NP_844945.1	245517
47807	H10	BA5267	hypothetical protein	Chromosome (NC_003997)	NP_847446.1	244008
50683	H11	BA5729	stage 0 sporulation protein J	Chromosome (NC_003997)	NP_847874.2	244023

Table 29: *Bacillus anthracis* Gateway® Clone, Plate 29 (QMG002870), NR-19753¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51251	A02	BA1070	uroporphyrinogen decarboxylase	Chromosome (NC_003997)	NP_843564.1	244054
51510	A03	BA3416	membrane protein, putative	Chromosome (NC_003997)	NP_845700.1	244064
49418	A04	BA5287	trkA domain protein	Chromosome (NC_003997)	NP_847466.1	244079
50027	A05	BA0014	deoxynucleoside kinase family protein	Chromosome (NC_003997)	NP_842585.1	246705
50484	A06	BA0402	tellurium resistance protein, putative	Chromosome (NC_003997)	NP_842946.1	246717
48743	A07	BA0030	hypothetical protein	Chromosome (NC_003997)	NP_842600.1	246736
49332	A08	BA2237	dihydrofolate reductase	Chromosome (NC_003997)	NP_844628.1	246753
51723	A09	BA0364	benzoate transport protein, putative	Chromosome (NC_003997)	NP_842909.1	246767
49926	A10	BA4603	hypothetical protein	Chromosome (NC_003997)	NP_846822.1	246781
48317	A11	BA0759	hypothetical protein	Chromosome (NC_003997)	NP_843283.1	247598
48719	A12	BA0765	hypothetical protein	Chromosome (NC_003997)	NP_843288.1	247610
48838	B01	BA1059	membrane protein, putative	Chromosome (NC_003997)	NP_843556.1	244039
49090	B02	BA1047	HIT family protein	Chromosome (NC_003997)	NP_843546.1	244055
49170	B03	BA2931	lipoprotein, putative	Chromosome (NC_003997)	NP_845267.1	244065
49572	B04	BA3420	hypothetical protein	Chromosome (NC_003997)	NP_845704.1	244081
48046	B05	BA0391	DNA-binding protein	Chromosome (NC_003997)	NP_842935.1	246708
48400	B06	BA4615	hypothetical protein	Chromosome (NC_003997)	NP_846834.1	246718
51121	B07	BA0382	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_842926.1	246737
49367	B08	BA0018	cytidine/deoxycytidylate deaminase zinc-binding domain protein	Chromosome (NC_003997)	NP_842589.1	246754
49738	B09	BA0011	glutamine amidotransferase, SNO family	Chromosome (NC_003997)	NP_842582.1	246768
47611	B10	BA1547	hypothetical protein	Chromosome (NC_003997)	NP_843997.1	247575
51017	B11	BA1535	heptaprenyl diphosphate synthase component II	Chromosome (NC_003997)	NP_843986.1	247599
51289	B12	BA3927	lipoprotein, Bmp family	Chromosome (NC_003997)	NP_846172.1	247611
48905	C01	BA5266	hypothetical protein	Chromosome (NC_003997)	NP_847445.1	244043
51257	C02	BA2927	membrane protein, putative	Chromosome (NC_003997)	NP_845263.1	244056
49226	C03	BA5274	hypothetical protein	Chromosome (NC_003997)	NP_847453.1	244067
49571	C04	BA3415	hypothetical protein	Chromosome (NC_003997)	NP_845699.1	244083
48056	C05	BA2254	hypothetical protein	Chromosome (NC_003997)	NP_844644.1	246710
48454	C06	BA4613	hypothetical protein	Chromosome (NC_003997)	NP_846832.1	246722
48786	C07	BA2252	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844642.1	246738
49517	C08	BA2276	azoreductase	Chromosome (NC_003997)	NP_844662.1	246755
49763	C09	BA0399	tellurium resistance protein, putative	Chromosome (NC_003997)	NP_842943.1	246769
47670	C10	BA3940	hypothetical protein	Chromosome (NC_003997)	NP_846184.1	247577
48339	C11	BA3941	hypothetical protein	Chromosome (NC_003997)	NP_846185.1	247600
48840	C12	BA1554	hypothetical protein	Chromosome (NC_003997)	NP_844004.1	247612
48937	D01	BA3418	lipoprotein, putative	Chromosome (NC_003997)	NP_845702.1	244045
49101	D02	BA5285	hypothetical protein	Chromosome (NC_003997)	NP_847464.1	244057
49268	D03	BA2928	TPR domain protein	Chromosome (NC_003997)	NP_845264.1	244069
49600	D04	BA1045	protease production regulatory protein Hpr	Chromosome (NC_003997)	NP_843544.1	244085

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50411	D05	BA0381	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_842925.1	246711
48587	D06	BA0387	hypothetical protein	Chromosome (NC_003997)	NP_842931.1	246726
48921	D07	BA0392	membrane protein, putative	Chromosome (NC_003997)	NP_842936.1	246741
49524	D08	BA0016	isochorismatase family protein	Chromosome (NC_003997)	NP_842587.1	246757
49762	D09	BA0021	recombination protein RecR	Chromosome (NC_003997)	NP_842592.1	246771
47863	D10	BA2643	hypothetical protein	Chromosome (NC_003997)	NP_845005.1	247579
48408	D11	BA3945	ribosomal protein S15	Chromosome (NC_003997)	NP_846189.1	247602
51307	D12	BA4986	spore germination protein GerHC	Chromosome (NC_003997)	NP_847180.1	247613
48943	E01	BA1078	penicillinase repressor	Chromosome (NC_003997)	NP_843571.1	244047
49091	E02	BA1056	hypothetical protein	Chromosome (NC_003997)	NP_843554.1	244059
51779	E03	BA3422	CBS domain protein	Chromosome (NC_003997)	NP_845706.2	244070
49775	E04	BA5728	hypothetical protein	Chromosome (NC_003997)	NP_847873.1	244087
48185	E05	BA4604	hypothetical protein	Chromosome (NC_003997)	NP_846823.1	246712
48615	E06	BA0380	hypothetical protein	Chromosome (NC_003997)	NP_842924.1	246728
49010	E07	BA4614	conserved hypothetical protein TIGR00250	Chromosome (NC_003997)	NP_846833.1	246743
49602	E08	BA2278	hypothetical protein	Chromosome (NC_003997)	NP_844664.1	246761
49866	E09	BA0027	thymidylate kinase	Chromosome (NC_003997)	NP_842597.1	246773
47991	E10	BA4982	hypothetical protein	Chromosome (NC_003997)	NP_847176.1	247581
48465	E11	BA3949	hypothetical protein	Chromosome (NC_003997)	NP_846192.1	247604
48910	E12	BA1561	hypothetical protein	Chromosome (NC_003997)	NP_844011.1	247614
48989	F01	BA2935	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845271.1	244049
51278	F02	BA3427	hypothetical protein	Chromosome (NC_003997)	NP_845711.1	244060
49275	F03	BA1054	hypothetical protein	Chromosome (NC_003997)	NP_843553.1	244073
47739	F04	BA4582	hypothetical protein	Chromosome (NC_003997)	NP_846803.1	246699
50412	F05	BA0397	LPXTG-motif cell wall anchor domain protein	Chromosome (NC_003997)	NP_842941.1	246713
50837	F06	BA2269	membrane protein, putative	Chromosome (NC_003997)	NP_844657.1	246729
49048	F07	BA2261	mutT/nudix family protein	Chromosome (NC_003997)	NP_844650.1	246745
49699	F08	BA0389	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_842933.1	246762
49885	F09	BA2265	DNA-binding response regulator, LuxR family	Chromosome (NC_003997)	NP_844654.1	246775
48075	F10	BA4987	hypothetical protein	Chromosome (NC_003997)	NP_847181.1	247583
48563	F11	BA4981	rhodanese-like domain protein	Chromosome (NC_003997)	NP_847175.1	247606
51326	F12	BA1538	3-dehydroquinase synthase	Chromosome (NC_003997)	NP_843989.1	247615
49001	G01	BA5284	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_847463.1	244051
49136	G02	BA5290	general stress protein 20U	Chromosome (NC_003997)	NP_847469.1	244061
49353	G03	BA2926	mutT/nudix family protein	Chromosome (NC_003997)	NP_845262.1	244075
47793	G04	BA0017	hypothetical protein	Chromosome (NC_003997)	NP_842588.1	246701
48331	G05	BA0388	hypothetical protein	Chromosome (NC_003997)	NP_842932.1	246714
48651	G06	BA2253	hypothetical protein	Chromosome (NC_003997)	NP_844643.1	246732
49107	G07	BA2262	heat shock protein, Hsp20 family	Chromosome (NC_003997)	NP_844651.1	246747
51691	G08	BA0393	membrane protein, putative	Chromosome (NC_003997)	NP_842937.1	246765
49911	G09	BA0015	deoxynucleoside kinase family protein	Chromosome (NC_003997)	NP_842586.1	246777
48223	G10	BA4980	hypothetical protein	Chromosome (NC_003997)	NP_847174.1	247593
48630	G11	BA4979	hypothetical protein	Chromosome (NC_003997)	NP_847173.1	247608

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48933	G12	BA1556	methylglyoxal synthase	Chromosome (NC_003997)	NP_844006.1	247616
50937	H01	BA1071	ferrochelatase	Chromosome (NC_003997)	NP_843565.1	244052
49149	H02	BA5273	hypothetical protein	Chromosome (NC_003997)	NP_847452.1	244063
49379	H03	BA1068	hypothetical protein	Chromosome (NC_003997)	NP_843562.1	244077
47873	H04	BA2272	hypothetical protein	Chromosome (NC_003997)	NP_844659.1	246703
48350	H05	BA2259	hypothetical protein	Chromosome (NC_003997)	NP_844649.1	246716
48696	H06	BA4581	hypothetical protein	Chromosome (NC_003997)	NP_846802.1	246734
49281	H07	BA4607	transcription elongation factor GreA	Chromosome (NC_003997)	NP_846826.1	246749
49715	H08	BA0400	tellurium resistance protein	Chromosome (NC_003997)	NP_842944.1	246766
49914	H09	BA2239	hypothetical protein	Chromosome (NC_003997)	NP_844630.1	246778
50829	H10	BA3943	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_846187.1	247595
51254	H11	BA3937	aspartate-semialdehyde dehydrogenase	Chromosome (NC_003997)	NP_846181.1	247609

Table 30: *Bacillus anthracis* Gateway® Clone, Plate 30 (QMG002871), NR-19754¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49382	A02	BA1567	hypothetical protein	Chromosome (NC_003997)	NP_844017.1	247627
49900	A03	BA2657	thiJ/pfpl family protein	Chromosome (NC_003997)	NP_845018.1	247643
50714	A04	BA2738	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_845088.1	240863
48928	A05	BA5554	ATP synthase protein I	Chromosome (NC_003997)	NP_847712.1	240876
51347	A06	BA5539	NADH dehydrogenase I, D subunit	Chromosome (NC_003997)	NP_847697.1	240888
49474	A07	BA2718	hypothetical protein	Chromosome (NC_003997)	NP_845072.1	240897
49667	A08	BA5559	conserved hypothetical protein TIGR01440	Chromosome (NC_003997)	NP_847717.1	240911
47838	A09	BA0417	hypothetical protein	Chromosome (NC_003997)	NP_842960.1	246960
48213	A10	BA0406	hypothetical protein	Chromosome (NC_003997)	NP_842950.1	246976
48485	A11	BA0032	hypothetical protein	Chromosome (NC_003997)	NP_842602.1	246992
49025	A12	BA4627	rrf2 family protein	Chromosome (NC_003997)	NP_846845.1	247008
49030	B01	BA0758	disulfide bond formation protein B, putative	Chromosome (NC_003997)	NP_843282.1	247618
49408	B02	BA0760	lipoprotein, putative	Chromosome (NC_003997)	NP_843284.1	247629
51791	B03	BA0001	chromosomal replication initiator protein DnaA	Chromosome (NC_003997)	NP_842573.1	247644
48600	B04	BA5535	NADH dehydrogenase I, K subunit	Chromosome (NC_003997)	NP_847693.1	240866
51149	B05	BA5538	NADH dehydrogenase I, H subunit	Chromosome (NC_003997)	NP_847696.1	240877
49289	B06	BA2733	hypothetical protein	Chromosome (NC_003997)	NP_845083.1	240889
49499	B07	BA2732	RNA polymerase sigma factor SigX, putative	Chromosome (NC_003997)	NP_845082.1	240901
49727	B08	BA5573	thymidine kinase	Chromosome (NC_003997)	NP_847730.1	240913
50506	B09	BA0420	hypothetical protein	Chromosome (NC_003997)	NP_842963.1	246961
48364	B10	BA0041	veg protein	Chromosome (NC_003997)	NP_842610.1	246980
48564	B11	BA0057	yabP protein	Chromosome (NC_003997)	NP_842626.1	246996
49063	B12	BA0416	transporter, EamA family	Chromosome (NC_003997)	NP_842959.1	247010

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51374	C01	BA1539	histidinol-phosphate aminotransferase	Chromosome (NC_003997)	NP_843990.1	247619
51488	C02	BA1537	chorismate synthase	Chromosome (NC_003997)	NP_843988.1	247630
49932	C03	BA1552	uracil-DNA glycosylase family protein	Chromosome (NC_003997)	NP_844002.1	247645
50839	C04	BA2726	hypothetical protein	Chromosome (NC_003997)	NP_845078.1	240867
48960	C05	BA5546	ATP synthase F1, epsilon subunit	Chromosome (NC_003997)	NP_847704.1	240880
51473	C06	BA5620	multidrug resistance protein, putative	Chromosome (NC_003997)	NP_847771.1	240890
51721	C07	BA5518	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_847677.1	240902
51950	C08	BA0860	hypothetical protein	Chromosome (NC_003997)	NP_843373.1	240914
47957	C09	BA0042	small, acid-soluble spore protein	Chromosome (NC_003997)	NP_842611.1	246964
48367	C10	BA2282	lemA domain protein	Chromosome (NC_003997)	NP_844668.1	246982
48622	C11	BA4655	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_846871.1	246998
49228	C12	BA0407	low molecular weight phosphotyrosine protein phosphatase family	Chromosome (NC_003997)	NP_842951.1	247012
49029	D01	BA0757	thioredoxin, putative	Chromosome (NC_003997)	NP_843281.1	247620
51525	D02	BA1568	aspartate aminotransferase	Chromosome (NC_003997)	NP_844018.1	247631
49953	D03	BA1570	endonuclease III	Chromosome (NC_003997)	NP_844020.1	247646
50857	D04	BA5524	stage II sporulation protein	Chromosome (NC_003997)	NP_847683.1	240869
51209	D05	BA2735	hypothetical protein	Chromosome (NC_003997)	NP_845085.1	240881
49366	D06	BA5563	PTS system, glucose-specific IIA component, putative	Chromosome (NC_003997)	NP_847720.1	240891
49520	D07	BA2742	hypothetical protein	Chromosome (NC_003997)	NP_845092.1	240903
49893	D08	BA5557	uracil phosphoribosyltransferase	Chromosome (NC_003997)	NP_847715.1	240917
48100	D09	BA4649	hypothetical protein	Chromosome (NC_003997)	NP_846866.1	246968
50971	D10	BA4652	substrate-binding family protein, putative	Chromosome (NC_003997)	NP_846869.1	246983
51309	D11	BA0404	tellurite resistance protein, putative	Chromosome (NC_003997)	NP_842948.1	246999
49301	D12	BA0060	S1 RNA binding domain protein	Chromosome (NC_003997)	NP_842629.1	247014
49424	E01	BA1544	menaquinol-cytochrome c reductase, iron-sulfur subunit	Chromosome (NC_003997)	NP_843994.2	247622
49515	E02	BA1542	hypothetical protein	Chromosome (NC_003997)	NP_843992.1	247632
50077	E03	BA1551	hypothetical protein	Chromosome (NC_003997)	NP_844001.1	247650
48832	E04	BA5542	NADH dehydrogenase I, A subunit	Chromosome (NC_003997)	NP_847700.1	240870
48971	E05	BA2741	hypothetical protein	Chromosome (NC_003997)	NP_845091.1	240882
51483	E06	BA2740	hypothetical protein	Chromosome (NC_003997)	NP_845090.1	240892
49548	E07	BA5550	ATP synthase F1, delta subunit	Chromosome (NC_003997)	NP_847708.1	240905
49981	E08	BA5544	hypothetical protein	Chromosome (NC_003997)	NP_847702.1	240919
48166	E09	BA4619	hypothetical protein	Chromosome (NC_003997)	NP_846838.1	246970
48403	E10	BA0024	sigma-k factor processing regulatory protein BofA	Chromosome (NC_003997)	NP_842594.1	246984
51383	E11	BA4625	tRNA (5-methylaminomethyl-2-thiouridylate)-methyltransferase	Chromosome (NC_003997)	NP_846843.1	247001

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51702	E12	BA4628	ATPase, AAA family	Chromosome (NC_003997)	NP_846846.1	247015
51403	F01	BA0004	DNA replication and repair protein RecF	Chromosome (NC_003997)	NP_842576.1	247623
49569	F02	BA2640	membrane protein, putative	Chromosome (NC_003997)	NP_845002.1	247634
50237	F03	BA3928	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_846173.1	247658
51035	F04	BA5576	fructose-1,6-bisphosphatase, class II	Chromosome (NC_003997)	NP_847733.1	240871
49150	F05	BA5560	sugar-phosphate isomerase, RpiB/LacA/LacB family	Chromosome (NC_003997)	NP_847718.1	240885
49406	F06	BA5551	ATP synthase F0, B subunit	Chromosome (NC_003997)	NP_847709.1	240893
51739	F07	BA5529	UDP-N-acetylglucosamine 1-carboxyvinyltransferase 1	Chromosome (NC_003997)	NP_847687.1	240906
50116	F08	BA2720	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_845074.1	240921
48198	F09	BA0022	hypothetical protein	Chromosome (NC_003997)	NP_842593.1	246972
50975	F10	BA2279	glycine betaine/L-proline ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844665.1	246985
48852	F11	BA0046	endoribonuclease L-PSP, putative	Chromosome (NC_003997)	NP_842615.1	247004
49303	F12	BA0408	hypothetical protein	Chromosome (NC_003997)	NP_842952.1	247016
49153	G01	BA1536	nucleoside diphosphate kinase, putative	Chromosome (NC_003997)	NP_843987.1	247624
49689	G02	BA2633	hypothetical protein	Chromosome (NC_003997)		247638
47781	G03	BA5523	hypothetical protein	Chromosome (NC_003997)	NP_847682.1	240859
48906	G04	BA5564	hypothetical protein	Chromosome (NC_003997)	NP_847721.1	240872
51291	G05	BA5572	peptide chain release factor 1	Chromosome (NC_003997)	NP_847729.1	240886
51623	G06	BA5519	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_847678.1	240894
51885	G07	BA5547	ATP synthase F1, beta subunit	Chromosome (NC_003997)	NP_847705.1	240908
50163	G08	BA5525	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_847684.1	240923
48212	G09	BA0051	hypothetical protein	Chromosome (NC_003997)	NP_842620.1	246974
48472	G10	BA4642	hypothetical protein	Chromosome (NC_003997)	NP_846859.1	246988
51404	G11	BA0421	hypothetical protein	Chromosome (NC_003997)	NP_842964.1	247005
49443	G12	BA2286	hypothetical protein	Chromosome (NC_003997)	NP_844671.1	247018
49187	H01	BA1543	hypothetical protein	Chromosome (NC_003997)	NP_843993.1	247625
51653	H02	BA1541	TPR domain protein	Chromosome (NC_003997)	NP_843991.1	247639
48356	H03	BA5555	hypothetical protein	Chromosome (NC_003997)	NP_847713.1	240862
51148	H04	BA5520	mbl protein	Chromosome (NC_003997)	NP_847679.1	240875
49215	H05	BA5569	hypothetical protein	Chromosome (NC_003997)	NP_847726.1	240887
49460	H06	BA5541	NADH dehydrogenase I, B subunit	Chromosome (NC_003997)	NP_847699.1	240895
49575	H07	BA5567	membrane protein, putative	Chromosome (NC_003997)	NP_847724.1	240909
47722	H08	BA0045	hypothetical protein	Chromosome (NC_003997)	NP_842614.1	246956
50755	H09	BA0033	conserved hypothetical protein TIGR00096	Chromosome (NC_003997)	NP_842603.1	246975
48466	H10	BA0034	transition state transcriptional regulatory protein AbrB	Chromosome (NC_003997)	NP_842604.1	246990
48891	H11	BA4645	hypothetical protein	Chromosome (NC_003997)	NP_846862.1	247006

Table 31: *Bacillus anthracis* Gateway® Clone, Plate 31 (QMG002872), NR-19755¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47690	A02	BA3300	hypothetical protein	Chromosome (NC_003997)	NP_845591.1	240580
48160	A03	BA3278	hypothetical protein	Chromosome (NC_003997)	NP_845572.1	240596
48710	A04	BA3289	hypothetical protein	Chromosome (NC_003997)	NP_845582.1	240616
49555	A05	BA3351	hypothetical protein	Chromosome (NC_003997)	NP_845637.1	240640
47871	A06	BA1364	hypothetical protein	Chromosome (NC_003997)	NP_843822.1	241983
50496	A07	BA1340	phosphonoacetaldehyde phosphonohydrolase	Chromosome (NC_003997)	NP_843803.1	242000
49472	A08	BA1327	phaP protein	Chromosome (NC_003997)	NP_843792.1	242038
47899	A09	BA2796	hypothetical protein	Chromosome (NC_003997)	NP_845145.1	240505
50721	A10	BA2815	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_845162.1	240537
49454	A11	BA2794	DNA topology modulation protein FlaR, putative	Chromosome (NC_003997)	NP_845143.1	240570
49205	A12	BA2757	hypothetical protein	Chromosome (NC_003997)	NP_845107.1	240809
49514	B01	BA0053	stage V sporulation protein T	Chromosome (NC_003997)	NP_842622.1	247022
47734	B02	BA3298	hypothetical protein	Chromosome (NC_003997)	NP_845589.1	240582
48231	B03	BA3287	hypothetical protein	Chromosome (NC_003997)	NP_845580.1	240600
48855	B04	BA3290	hypothetical protein	Chromosome (NC_003997)	NP_845583.1	240620
49604	B05	BA3354	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845640.1	240644
47884	B06	BA1335	hypothetical protein	Chromosome (NC_003997)	NP_843800.1	241985
48233	B07	BA3721	conserved repeat domain protein	Chromosome (NC_003997)	NP_845984.1	242001
49787	B08	BA1365	hypothetical protein	Chromosome (NC_003997)	NP_843823.1	242048
48124	B09	BA0920	hypothetical protein	Chromosome (NC_003997)	NP_843427.1	240509
48936	B10	BA2797	hypothetical protein	Chromosome (NC_003997)	NP_845146.1	240544
47766	B11	BA5605	hypothetical protein	Chromosome (NC_003997)	NP_847757.1	240774
49360	B12	BA2744	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845094.1	240815
49535	C01	BA0063	hypoxanthine phosphoribosyltransferase	Chromosome (NC_003997)	NP_842632.1	247024
47746	C02	BA3293	hypothetical protein	Chromosome (NC_003997)	NP_845585.1	240584
50841	C03	BA3343	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_845629.1	240601
48913	C04	BA3352	hypothetical protein	Chromosome (NC_003997)	NP_845638.1	240622
49675	C05	BA3303	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845593.1	240648
47980	C06	BA1320	hypothetical protein	Chromosome (NC_003997)	NP_843786.1	241987
48608	C07	BA3722	hypothetical protein	Chromosome (NC_003997)	NP_845985.1	242007
49803	C08	BA1305	membrane protein, putative	Chromosome (NC_003997)	NP_843772.1	242050
50060	C09	BA0924	response regulator	Chromosome (NC_003997)	NP_843430.1	240512
49015	C10	BA0918	hypothetical protein	Chromosome (NC_003997)	NP_843425.1	240548
48044	C11	BA5093	hypothetical protein	Chromosome (NC_003997)	NP_847281.1	240778
49800	C12	BA5585	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_847741.1	240838
49728	D01	BA0069	para-aminobenzoate synthase glutamine amidotransferase, component	Chromosome (NC_003997)	NP_842638.1	247030
50295	D02	BA5669	glycosyl transferase, WecB/TagA/CpsF family	Chromosome (NC_003997)	NP_847816.1	240585
48275	D03	BA5186	nifU domain protein	Chromosome (NC_003997)	NP_847369.1	240602

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48999	D04	BA3340	hypothetical protein	Chromosome (NC_003997)	NP_845626.1	240624
49709	D05	BA3315	isochorismatase family protein	Chromosome (NC_003997)	NP_845603.1	240650
48000	D06	BA1324	small, acid-soluble spore protein, alpha/beta family	Chromosome (NC_003997)	NP_843790.1	241991
48706	D07	BA1334	hypothetical protein	Chromosome (NC_003997)	NP_843799.1	242009
49859	D08	BA3265	protease synthase and sporulation negative regulatory protein PA	Chromosome (NC_003997)	NP_845563.1	242054
48390	D09	BA0949	protein-export membrane protein-related protein	Chromosome (NC_003997)	NP_843454.1	240519
49016	D10	BA0936	lipoprotein, putative	Chromosome (NC_003997)	NP_843442.1	240550
48663	D11	BA2749	hypothetical protein	Chromosome (NC_003997)	NP_845099.1	240788
47609	D12	BXB0050	hypothetical protein BXB0050	Chromosome (NC_003997)	NP_653019.1	231021
49739	E01	BA0415	dedA family protein	Chromosome (NC_003997)	NP_842958.1	247032
47804	E02	BA3347	hypothetical protein	Chromosome (NC_003997)	NP_845633.1	240586
48387	E03	BA5187	hypothetical protein	Chromosome (NC_003997)	NP_847370.1	240606
49021	E04	BA3344	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_845630.1	240626
49825	E05	BA5183	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_847366.1	240654
50302	E06	BA1330	3-oxoacyl-(acyl-carrier-protein) reductase, putative	Chromosome (NC_003997)	NP_843795.1	241992
49007	E07	BA3732	mutT/nudix family protein	Chromosome (NC_003997)	NP_845995.1	242017
49984	E08	BA1314	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_843780.1	242058
48498	E09	BA5157	hypothetical protein	Chromosome (NC_003997)	NP_847343.1	240521
49169	E10	BA2822	hypothetical protein	Chromosome (NC_003997)	NP_845168.1	240552
48693	E11	BA2763	hypothetical protein	Chromosome (NC_003997)	NP_845112.1	240790
48817	E12	BXB0036	hypothetical protein BXB0036	Chromosome (NC_003997)	NP_653006.1	231022
49959	F01	BA4644	hypothetical protein	Chromosome (NC_003997)	NP_846861.1	247037
48015	F02	BA5626	4-oxalocrotonate tautomerase	Chromosome (NC_003997)	NP_847777.1	240590
48528	F03	BA3305	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_845594.1	240608
49206	F04	BA3339	glyoxalase family protein	Chromosome (NC_003997)	NP_845625.1	240632
49878	F05	BA5660	hypothetical protein	Chromosome (NC_003997)	NP_847808.1	240656
48052	F06	BA1367	hypothetical protein	Chromosome (NC_003997)	NP_843825.1	241993
49140	F07	BA1326	maoC family protein	Chromosome (NC_003997)	NP_843791.1	242023
50070	F08	BA3731	membrane protein, putative	Chromosome (NC_003997)	NP_845994.1	242066
48645	F09	BA5174	hypothetical protein	Chromosome (NC_003997)	NP_847357.2	240523
49200	F10	BA0919	hypothetical protein	Chromosome (NC_003997)	NP_843426.1	240556
48760	F11	BA0868	hypothetical protein	Chromosome (NC_003997)	NP_843381.1	240794
47608	F12	BXB0047	hypothetical protein BXB0047	Chromosome (NC_003997)	NP_653016.1	231023
50001	G01	BA4624	TPR domain protein	Chromosome (NC_003997)	NP_846842.1	247041
48089	G02	BA3341	hypothetical protein	Chromosome (NC_003997)	NP_845627.1	240592
48571	G03	BA5185	hypothetical protein	Chromosome (NC_003997)	NP_847368.1	240610
49260	G04	BA5180	hypothetical protein	Chromosome (NC_003997)	NP_847363.1	240634
50132	G05	BA5658	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_847806.1	240672
48091	G06	BA3734	hypothetical protein	Chromosome (NC_003997)	NP_845996.1	241995

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49174	G07	BA1328	transcriptional regulator, PadR family	Chromosome (NC_003997)	NP_843793.1	242027
47610	G08	BA0940	hypothetical protein	Chromosome (NC_003997)	NP_843446.1	240488
48732	G09	BA5132	general stress protein 13	Chromosome (NC_003997)	NP_847318.1	240530
49201	G10	BA0958	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843463.1	240558
48759	G11	BA0863	hypothetical protein	Chromosome (NC_003997)	NP_843376.1	240796
48850	G12	BXB0026	hypothetical protein BXB0026	Chromosome (NC_003997)	NP_652996.1	231024
50075	H01	BA0412	hypothetical protein	Chromosome (NC_003997)	NP_842956.1	247043
48123	H02	BA5665	hypothetical protein	Chromosome (NC_003997)	NP_847812.1	240594
48665	H03	BA3336	hypothetical protein	Chromosome (NC_003997)	NP_845623.1	240614
49420	H04	BA5624	hypothetical protein	Chromosome (NC_003997)	NP_847775.1	240638
47832	H05	BA3736	hypothetical protein	Chromosome (NC_003997)	NP_845997.1	241979
48207	H06	BA3742	conserved hypothetical protein UPF0154	Chromosome (NC_003997)	NP_846003.1	241999
49343	H07	BA1360	6-pyruvoyl tetrahydrobiopterin synthase, putative	Chromosome (NC_003997)	NP_843818.1	242032
47632	H08	BA3309	hypothetical protein	Chromosome (NC_003997)	NP_845598.1	240490
48722	H09	BA0937	hypothetical protein	Chromosome (NC_003997)	NP_843443.1	240532
49298	H10	BA5162	hypothetical protein	Chromosome (NC_003997)	NP_847347.1	240562
49118	H11	BA5612	hypothetical protein	Chromosome (NC_003997)	NP_847764.1	240807

Table 32: *Bacillus anthracis* Gateway® Clone, Plate 32 (QMG002912), NR-19756¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47999	A02	BA1236	hypothetical protein	Chromosome (NC_003997)	NP_843708.1	242573
50513	A03	BA3628	formate dehydrogenase accessory protein FdhD	Chromosome (NC_003997)	NP_845896.1	242584
48781	A04	BA1255	hypothetical protein	Chromosome (NC_003997)	NP_843727.1	242593
48931	A05	BA1244	lipoprotein, putative	Chromosome (NC_003997)	NP_843716.1	242601
51183	A06	BA3627	molybdenum cofactor biosynthesis protein A	Chromosome (NC_003997)	NP_845895.1	242610
51373	A07	BA1224	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_843696.1	242619
51626	A08	BA3145	malate dehydrogenase, putative	Chromosome (NC_003997)	NP_845466.1	242628
51930	A09	BA3607	sodium/pantothenate symporter, putative	Chromosome (NC_003997)	NP_845877.1	242640
50271	A10	BA1228	glucose-1-phosphate thymidyltransferase, putative	Chromosome (NC_003997)	NP_843700.1	242653
48995	A11	BXB0075	hypothetical protein BXB0075	pOX2 (NC_003981)	NP_653040.1	231032
49561	A12	BXB0088	CAAX amino terminal protease family protein	pOX2 (NC_003981)		231042
47681	B01	BA3626	hypothetical protein	Chromosome (NC_003997)	NP_845894.1	242565
50427	B02	BA1254	tryptophan synthase, alpha subunit	Chromosome (NC_003997)	NP_843726.1	242576
48268	B03	BA3621	molybdopterin converting factor, subunit 1	Chromosome (NC_003997)	NP_845889.1	242585
50689	B04	BA1231	dTDP-4-dehydrorhamnose reductase	Chromosome (NC_003997)	NP_843703.1	242594

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50939	B05	BA1219	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_843692.1	242602
49074	B06	BA1235	hypothetical protein	Chromosome (NC_003997)	NP_843707.1	242611
49381	B07	BA1237	hypothetical protein	Chromosome (NC_003997)	NP_843709.1	242620
49827	B08	BA1252	N-(5-phosphoribosyl)anthranilate isomerase	Chromosome (NC_003997)	NP_843724.1	242631
50090	B09	BA1257	hypothetical protein	Chromosome (NC_003997)	NP_843729.1	242641
50284	B10	BA1217	Ser/Thr protein phosphatase family protein	Chromosome (NC_003997)	NP_843691.1	242655
47711	B11	BXB0003	hypothetical protein BXB0003	pOX2 (NC_003981)	NP_652973.1	231033
47826	B12	BXB0019	hypothetical protein BXB0019	pOX2 (NC_003981)	NP_652989.1	231043
50290	C01	BA3610	3-oxoacyl-(acyl-carrier-protein) reductase, putative	Chromosome (NC_003997)	NP_845880.1	242566
48019	C02	BA1247	hypothetical protein	Chromosome (NC_003997)	NP_843719.1	242577
81836	C03	BA3608	hypothetical protein	Chromosome (NC_003997)	NP_845878.1	242587
48795	C04	BA1216	hypothetical protein	Chromosome (NC_003997)	NP_843690.1	242595
48945	C05	BA1245	hypothetical protein	Chromosome (NC_003997)	NP_843717.1	242603
51182	C06	BA3624	molybdopterin biosynthesis protein MoeB, putative	Chromosome (NC_003997)	NP_845892.1	242612
51422	C07	BA3131	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_845454.1	242621
51810	C08	BA3142	branched-chain amino acid transport system II carrier protein	Chromosome (NC_003997)	NP_845463.1	242632
50094	C09	BA3133	hypothetical protein	Chromosome (NC_003997)	NP_845455.1	242643
47635	C10	BXB0108	hypothetical protein BXB0108	pOX2 (NC_003981)	NP_653069.1	231025
49062	C11	BXB0113	hypothetical protein BXB0113	pOX2 (NC_003981)	NP_653074.1	231034
47854	C12	BXB0043	hypothetical protein BXB0043	pOX2 (NC_003981)	NP_653013.1	231045
81834	D01	BA3139	hypothetical protein	Chromosome (NC_003997)	NP_845460.1	242567
81835	D02	BA3615	membrane protein, putative	Chromosome (NC_003997)	NP_845885.1	242579
50618	D03	BA1258	membrane protein, putative	Chromosome (NC_003997)	NP_843730.1	242588
50690	D04	BA3134	catalase, Mn-containing	Chromosome (NC_003997)	NP_845456.1	242596
50959	D05	BA3614	rarD protein	Chromosome (NC_003997)	NP_845884.1	242604
51259	D06	BA3620	mrp protein	Chromosome (NC_003997)	NP_845888.1	242614
49445	D07	BA3129	hypothetical protein	Chromosome (NC_003997)	NP_845452.1	242622
51892	D08	BA1248	anthranilate synthase component I	Chromosome (NC_003997)	NP_843720.1	242634
50099	D09	BA1226	hypothetical protein	Chromosome (NC_003997)	NP_843698.1	242645
48851	D10	BXB0096	hypothetical protein BXB0096	pOX2 (NC_003981)	NP_653058.1	231026
47760	D11	BXB0068	hypothetical protein BXB0068	pOX2 (NC_003981)	NP_653035.1	231035
49577	D12	BXB0109	hypothetical protein BXB0109	pOX2 (NC_003981)	NP_653070.1	231046
47774	E01	BA3636	hypothetical protein	Chromosome (NC_003997)	NP_845904.1	242569
50463	E02	BA1259	hypothetical protein	Chromosome (NC_003997)	NP_843731.1	242580
48684	E03	BA3639	hypothetical protein	Chromosome (NC_003997)	NP_845907.1	242589
48868	E04	BA3138	transcriptional regulator AnsR	Chromosome (NC_003997)	NP_845459.1	242597
48953	E05	BA3618	hypothetical protein	Chromosome (NC_003997)	NP_845886.1	242605
49236	E06	BA3622	molybdopterin converting factor, subunit 2	Chromosome (NC_003997)	NP_845890.1	242615
51428	E07	BA3635	spore germination protein	Chromosome (NC_003997)	NP_845903.1	242623
49920	E08	BA1212	hypothetical protein	Chromosome (NC_003997)	NP_843687.1	242635
51986	E09	BA1256	L-lactate permease, putative	Chromosome (NC_003997)	NP_843728.1	242646

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47695	E10	BXB0082	hypothetical protein BXB0082	pOX2 (NC_003981)	NP_653045.1	231027
49227	E11	BXB0054	hypothetical protein BXB0054	pOX2 (NC_003981)	NP_653023.1	231038
49737	E12	BXB0055	transcriptional regulator	pOX2 (NC_003981)	NP_653024.1	231048
50359	F01	BA1251	indole-3-glycerol phosphate synthase	Chromosome (NC_003997)	NP_843723.1	242570
48159	F02	BA3130	small, acid-soluble spore protein	Chromosome (NC_003997)	NP_845453.1	242581
50624	F03	BA3603	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845873.1	242590
50864	F04	BA1243	membrane protein, putative	Chromosome (NC_003997)	NP_843715.1	242598
51039	F05	BA1230	dTDP-glucose 4,6-dehydratase	Chromosome (NC_003997)	NP_843702.1	242606
51304	F06	BA3605	hypothetical protein	Chromosome (NC_003997)	NP_845875.1	242616
49549	F07	BA1229	dTDP-4-dehydrorhamnose 3,5-epimerase	Chromosome (NC_003997)	NP_843701.1	242625
49938	F08	BA3140	hypothetical protein	Chromosome (NC_003997)	NP_845461.1	242637
50109	F09	BA1225	hypothetical protein	Chromosome (NC_003997)	NP_843697.1	242647
47713	F10	BXB0083	hypothetical protein BXB0083	pOX2 (NC_003981)	NP_653046.1	231029
47809	F11	BXB0077	hypothetical protein BXB0077	pOX2 (NC_003981)	NP_653041.1	231039
47916	F12	BXB0067	hypothetical protein BXB0067	pOX2 (NC_003981)	NP_653034.1	231049
47818	G01	BA3146	hypothetical protein	Chromosome (NC_003997)	NP_845467.1	242571
50509	G02	BA1213	inorganic polyphosphate/ATP-NAD kinase, putative	Chromosome (NC_003997)	NP_843688.1	242582
48745	G03	BA3144	hypothetical protein	Chromosome (NC_003997)	NP_845465.1	242591
48939	G04	BA3640	hypothetical protein	Chromosome (NC_003997)	NP_845908.1	242599
49043	G05	BA1240	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843712.1	242607
49247	G06	BA1238	spore coat protein Z	Chromosome (NC_003997)	NP_843710.1	242617
51538	G07	BA1253	tryptophan synthase, beta subunit	Chromosome (NC_003997)	NP_843725.1	242626
51915	G08	BA3136	aspartate ammonia-lyase	Chromosome (NC_003997)	NP_845457.1	242638
50218	G09	BA3641	hypothetical protein	Chromosome (NC_003997)	NP_845909.1	242649
48776	G10	BXB0024	hypothetical protein BXB0024	pOX2 (NC_003981)	NP_652994.1	231030
49489	G11	BXB0032	hypothetical protein BXB0032	pOX2 (NC_003981)	NP_653002.1	231040
50212	G12	BXB0093	hypothetical protein BXB0093	pOX2 (NC_003981)	NP_653055.1	231050
50393	H01	BA1220	hypothetical protein	Chromosome (NC_003997)	NP_843693.1	242572
48221	H02	BA3619	hypothetical protein	Chromosome (NC_003997)	NP_845887.1	242583
50657	H03	BA1221	bacteriocin O-methyltransferase, putative	Chromosome (NC_003997)	NP_843694.1	242592
50930	H04	BA3606	inosine-uridine preferring nucleoside hydrolase family protein	Chromosome (NC_003997)	NP_845876.1	242600
51154	H05	BA3137	L-asparaginase	Chromosome (NC_003997)	NP_845458.1	242608
49292	H06	BA3128	hypothetical protein	Chromosome (NC_003997)	NP_845451.1	242618
49566	H07	BA1233	hypothetical protein	Chromosome (NC_003997)	NP_843705.1	242627
50076	H08	BA1227	streptomycin biosynthesis StrF domain protein	Chromosome (NC_003997)	NP_843699.1	242639
50257	H09	BA1242	hypothetical protein	Chromosome (NC_003997)	NP_843714.1	242651
47712	H10	BXB0044	hypothetical protein BXB0044	pOX2 (NC_003981)	NP_653014.1	231031
47808	H11	BXB0062	hypothetical protein BXB0062	pOX2 (NC_003981)	NP_653029.1	231041

Table 33: *Bacillus anthracis* Gateway® Clone, Plate 33 (QMG002913), NR-19757¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47973	A02	BXB0081	hypothetical protein BXB0081	pOX2 (NC_003981)	NP_653044.1	231059
50615	A03	BXB0022	hypothetical protein BXB0022	pOX2 (NC_003981)	NP_652992.1	231070
51225	A04	BXB0107	hypothetical protein BXB0107	pOX2 (NC_003981)	NP_653068.1	231080
51860	A05	BXB0066	capsule biosynthesis protein CapB	pOX2 (NC_003981)	NP_653033.1	231089
48573	A06	BXB0052	hypothetical protein BXB0052	pOX2 (NC_003981)	NP_653021.1	231098
48742	A07	BXB0051	hypothetical protein BXB0051	pOX2 (NC_003981)	NP_653020.1	231108
49994	A08	BA2037	hypothetical protein	Chromosome (NC_003997)	NP_844439.1	245638
50734	A09	BA2052	hypothetical protein	Chromosome (NC_003997)	NP_844454.1	245652
48824	A10	BA2011	hypothetical protein	Chromosome (NC_003997)	NP_844415.1	245668
49156	A11	BA2071	mutT/nudix family protein	Chromosome (NC_003997)	NP_844471.1	245680
49839	A12	BA2044	phosphoglycerate mutase family protein	Chromosome (NC_003997)	NP_844446.2	245692
47930	B01	BXB0058	hypothetical protein BXB0058	pOX2 (NC_003981)	NP_653025.1	231051
47972	B02	BXB0034	hypothetical protein BXB0034	pOX2 (NC_003981)	NP_653004.1	231061
48136	B03	BXB0025	hypothetical protein BXB0025	pOX2 (NC_003981)	NP_652995.1	231071
51433	B04	BXB0007	NLP/P60 family protein	pOX2 (NC_003981)	NP_652977.1	231082
51937	B05	BXB0060	capsule synthesis trans-acting positive regulator	pOX2 (NC_003981)	NP_653027.1	231091
52028	B06	BXB0089	oligopeptide ABC transporter	pOX2 (NC_003981)	NP_653051.1	231099
48789	B07	BXB0020	hypothetical protein BXB0020	pOX2 (NC_003981)	NP_652990.1	231110
48036	B08	BA2017	hypothetical protein	Chromosome (NC_003997)	NP_844421.1	245639
48448	B09	BA2031	hypothetical protein	Chromosome (NC_003997)	NP_844434.1	245653
51125	B10	BA2512	iolC protein, putative	Chromosome (NC_003997)	NP_844884.1	245669
49178	B11	BA2039	methylated-DNA--protein-cysteine S-methyltransferase	Chromosome (NC_003997)	NP_844441.1	245682
51497	B12	BA2004	multidrug resistance protein, putative	Chromosome (NC_003997)	NP_844408.1	245693
49761	C01	BXB0001	hypothetical protein BXB0001	pOX2 (NC_003981)	NP_652971.1	231052
47974	C02	BXB0106	hypothetical protein BXB0106	pOX2 (NC_003981)	NP_653067.1	231063
48137	C03	BXB0059	hypothetical protein BXB0059	pOX2 (NC_003981)	NP_653026.1	231073
48330	C04	BXB0085	hypothetical protein BXB0085	pOX2 (NC_003981)	NP_653048.1	231083
48475	C05	BXB0002	hypothetical protein BXB0002	pOX2 (NC_003981)	NP_652972.1	231092
48586	C06	BXB0010	hypothetical protein BXB0010	pOX2 (NC_003981)	NP_652980.1	231100
47787	C07	BA2036	hypothetical protein	Chromosome (NC_003997)	NP_844438.1	245628
48054	C08	BA2026	hypothetical protein	Chromosome (NC_003997)	NP_844430.1	245641
50735	C09	BA2060	membrane protein, putative	Chromosome (NC_003997)	NP_844461.1	245654
49018	C10	BA2042	fosfomycin resistance protein	Chromosome (NC_003997)	NP_844444.1	245672
51300	C11	BA2046	spore coat protein H	Chromosome (NC_003997)	NP_844448.1	245683
49358	C12	BA2069	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844469.1	245696
49809	D01	BXB0006	hypothetical protein BXB0006	pOX2 (NC_003981)	NP_652976.1	231054
50441	D02	BXB0038	hypothetical protein BXB0038	pOX2 (NC_003981)	NP_653008.1	231064
50716	D03	BXB0040	ATPase	pOX2 (NC_003981)	NP_653010.1	231074
51609	D04	BXB0064	capsule biosynthesis protein CapA	pOX2 (NC_003981)	NP_653031.1	231084
51940	D05	BXB0084	capsule synthesis trans-acting positive regulator	pOX2 (NC_003981)	NP_653047.1	231093
52039	D06	BXB0063	gamma-glutamyltranspeptidase	pOX2 (NC_003981)	NP_653030.1	231101
47829	D07	BA2023	hypothetical protein	Chromosome (NC_003997)	NP_844427.1	245630
50286	D08	BA2070	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_844470.1	245642

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48513	D09	BA2005	hypothetical protein	Chromosome (NC_003997)	NP_844409.1	245657
51139	D10	BA2016	bacterial luciferase family protein	Chromosome (NC_003997)	NP_844420.1	245673
49190	D11	BA2014	hypothetical protein	Chromosome (NC_003997)	NP_844418.1	245684
51742	D12	BA2059	CBS domain protein	Chromosome (NC_003997)	NP_844460.1	245697
47944	E01	BXB0090	hypothetical protein BXB0090	pOX2 (NC_003981)	NP_653052.1	231055
48017	E02	BXB0037	hypothetical protein BXB0037	pOX2 (NC_003981)	NP_653007.1	231065
48138	E03	BXB0112	hypothetical protein BXB0112	pOX2 (NC_003981)	NP_653073.1	231075
48344	E04	BXB0012	hypothetical protein BXB0012	pOX2 (NC_003981)	NP_652982.1	231085
48520	E05	BXB0069	transcriptional repressor PagR	pOX2 (NC_003981)	NP_653036.1	231094
48675	E06	BXB0087	hypothetical protein BXB0087	pOX2 (NC_003981)	NP_653049.1	231102
49916	E07	BA2508	PAP2 family protein	Chromosome (NC_003997)	NP_844880.1	245632
48128	E08	BA2518	hypothetical protein	Chromosome (NC_003997)	NP_844889.1	245643
50956	E09	BA2050	magnesium transporter, CorA family	Chromosome (NC_003997)	NP_844452.1	245661
51171	E10	BA2040	hypothetical protein	Chromosome (NC_003997)	NP_844442.1	245675
51332	E11	BA2008	conserved hypothetical protein TIGR00157	Chromosome (NC_003997)	NP_844412.1	245685
51787	E12	BA2063	branched-chain amino acid transport system II carrier protein	Chromosome (NC_003997)	NP_844463.1	245699
49832	F01	BXB0078	amino acid efflux protein	pOX2 (NC_003981)	NP_653042.1	231056
50550	F02	BXB0035	hypothetical protein BXB0035	pOX2 (NC_003981)	NP_653005.1	231066
50935	F03	BXB0074	hypothetical protein BXB0074	pOX2 (NC_003981)	NP_653039.1	231076
51660	F04	BXB0094	ImpB/MucB/SamB family protein	pOX2 (NC_003981)	NP_653056.1	231086
51980	F05	BXB0027	hypothetical protein BXB0027	pOX2 (NC_003981)		231095
52045	F06	BXB0045	surface-layer N-acetylmuramoyl-L-alanine amidase	pOX2 (NC_003981)	NP_653015.1	231103
47911	F07	BA2499	hypothetical protein	Chromosome (NC_003997)	NP_844873.1	245635
50482	F08	BA4868	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_847069.1	245644
48673	F09	BA4869	hypothetical protein	Chromosome (NC_003997)	NP_847070.1	245664
49143	F10	BA2013	general stress protein	Chromosome (NC_003997)	NP_844417.1	245676
51343	F11	BA2522	hypothetical protein	Chromosome (NC_003997)	NP_844891.1	245687
49393	F12	BA2053	cytosolic long-chain acyl-CoA thioester hydrolase family protein	Chromosome (NC_003997)	NP_844455.1	245700
47955	G01	BXB0092	hypothetical protein BXB0092	pOX2 (NC_003981)	NP_653054.1	231057
48062	G02	BXB0048	hypothetical protein BXB0048	pOX2 (NC_003981)	NP_653017.1	231067
51091	G03	BXB0110	hypothetical protein BXB0110	pOX2 (NC_003981)	NP_653071.1	231078
48428	G04	BXB0005	hypothetical protein BXB0005	pOX2 (NC_003981)	NP_652975.1	231087
48533	G05	BXB0049	hypothetical protein BXB0049	pOX2 (NC_003981)	NP_653018.1	231096
48700	G06	BXB0095	hypothetical protein BXB0095	pOX2 (NC_003981)	NP_653057.1	231104
49954	G07	BA2061	CBS domain protein	Chromosome (NC_003997)	NP_844462.1	245636
50661	G08	BA2516	fructose-bisphosphate aldolase, class II	Chromosome (NC_003997)	NP_844887.1	245650
50984	G09	BA2035	adhesion lipoprotein	Chromosome (NC_003997)	NP_844437.1	245665
49155	G10	BA2032	hypothetical protein	Chromosome (NC_003997)	NP_844435.1	245678
49251	G11	BA2500	hypothetical protein	Chromosome (NC_003997)	NP_844874.1	245688
51802	G12	BA0661	glycerol-3-phosphate transporter	Chromosome (NC_003997)	NP_843190.1	245701

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49880	H01	BXB0053	CAAX amino terminal protease family protein	pOX2 (NC_003981)	NP_653022.1	231058
48104	H02	BXB0011	hypothetical protein BXB0011	pOX2 (NC_003981)	NP_652981.1	231069
48300	H03	BXB0098	hypothetical protein BXB0098	pOX2 (NC_003981)	NP_653060.1	231079
48441	H04	BXB0017	hypothetical protein BXB0017	pOX2 (NC_003981)	NP_652987.1	231088
51895	H05	BXB0039	plasmid replication protein	pOX2 (NC_003981)	NP_653009.1	231097
48717	H06	BXB0061	hypothetical protein BXB0061	pOX2 (NC_003981)	NP_653028.1	231106
47965	H07	BA2056	lipoprotein, putative	Chromosome (NC_003997)	NP_844457.1	245637
48336	H08	BA2027	hypothetical protein	Chromosome (NC_003997)	NP_844431.1	245651
50983	H09	BA2021	cobalamin synthesis protein/P47K family protein	Chromosome (NC_003997)	NP_844425.1	245667
51233	H10	BA2038	NADH:flavin oxidoreductase / NADH oxidase family protein	Chromosome (NC_003997)	NP_844440.1	245679
51352	H11	BA2054	cardiolipin synthetase domain protein	Chromosome (NC_003997)	NP_844456.1	245689

Table 34: *Bacillus anthracis* Gateway® Clone, Plate 34 (QMG002914), NR-19758¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47719	A02	BA2770	hypothetical protein	Chromosome (NC_003997)	NP_845119.1	240770
50641	A03	BA2751	tryptophan 2,3-dioxygenase family protein	Chromosome (NC_003997)	NP_845101.1	240785
50918	A04	BA2750	hypothetical protein	Chromosome (NC_003997)	NP_845100.1	240799
49230	A05	BA0877	hypothetical protein	Chromosome (NC_003997)	NP_843389.1	240811
51517	A06	BA5589	acetyl-CoA acetyltransferase	Chromosome (NC_003997)	NP_847745.1	240822
51891	A07	BA0889	alginate O-acetyltransferase, putative	Chromosome (NC_003997)	NP_843400.1	240835
49669	A08	BA0943	transcriptional regulator, TetR-related family	Chromosome (NC_003997)	NP_843448.1	240491
49849	A09	BA0962	membrane protein, putative	Chromosome (NC_003997)	NP_843467.1	240500
48293	A10	BA5172	hypothetical protein	Chromosome (NC_003997)	NP_847355.1	240513
50638	A11	BA5151	hypothetical protein	Chromosome (NC_003997)	NP_847337.1	240533
51294	A12	BA5173	pyridine nucleotide-disulphide oxidoreductase	Chromosome (NC_003997)	NP_847356.1	240551
49442	B01	BA2043	hypothetical protein	Chromosome (NC_003997)	NP_844445.1	245702
47759	B02	BA5616	hypothetical protein	Chromosome (NC_003997)	NP_847768.1	240772
48601	B03	BA5609	hypothetical protein	Chromosome (NC_003997)	NP_847761.1	240786
48827	B04	BA2759	hypothetical protein	Chromosome (NC_003997)	NP_845108.1	240800
51350	B05	BA0884	CsaB protein	Chromosome (NC_003997)	NP_843396.1	240812
49615	B06	BA0865	hypothetical protein	Chromosome (NC_003997)	NP_843378.1	240825
51976	B07	BA0875	oxygen-independent coproporphyrinogen III oxidase, putative	Chromosome (NC_003997)	NP_843387.1	240841
47654	B08	BA0951	hypothetical protein	Chromosome (NC_003997)	NP_843456.1	240492
47859	B09	BA0948	hypothetical protein	Chromosome (NC_003997)	NP_843453.1	240501
50140	B10	BA3308	L-serine dehydratase, iron-sulfur-dependent, beta subunit	Chromosome (NC_003997)	NP_845597.1	240514
50646	B11	BA5136	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_847322.1	240535
51407	B12	BA2823	hypothetical protein	Chromosome (NC_003997)	NP_845169.1	240553

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49481	C01	BA2007	hypothetical protein	Chromosome (NC_003997)	NP_844411.1	245706
50348	C02	BA0867	alpha-acetolactate decarboxylase	Chromosome (NC_003997)	NP_843380.1	240773
50682	C03	BA5588	3-hydroxyacyl-CoA dehydrogenase	Chromosome (NC_003997)	NP_847744.1	240787
51075	C04	BA5592	UV-endonuclease, putative	Chromosome (NC_003997)	NP_847748.1	240801
51389	C05	BA0862	hypothetical protein	Chromosome (NC_003997)	NP_843375.2	240814
51548	C06	BA5591	cardiolipin synthetase domain protein	Chromosome (NC_003997)	NP_847747.1	240826
49834	C07	BA0869	methylpurine-DNA glycosylase family protein	Chromosome (NC_003997)	NP_843382.1	240842
49719	C08	BA0955	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_843460.1	240493
49857	C09	BA2820	hypothetical protein	Chromosome (NC_003997)	NP_845166.1	240502
50239	C10	BA5622	glycerophosphoryl diester phosphodiesterase family protein	Chromosome (NC_003997)	NP_847773.1	240516
50727	C11	BA5170	diaminopimelate epimerase	Chromosome (NC_003997)	NP_847354.1	240539
51536	C12	BA5133	aminotransferase, classes I and II	Chromosome (NC_003997)	NP_847319.1	240555
49511	D01	BA2502	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_844876.1	245708
50363	D02	BA2748	spore cortex-lytic enzyme prepeptide	Chromosome (NC_003997)	NP_845098.1	240775
50751	D03	BA5086	transcriptional regulator, AraC family	Chromosome (NC_003997)	NP_847276.1	240791
48837	D04	BA0880	hypothetical protein	Chromosome (NC_003997)	NP_843392.1	240802
51419	D05	BA5598	sensor histidine kinase	Chromosome (NC_003997)	NP_847753.1	240816
49697	D06	BA5083	ribosomal RNA adenine dimethylase domain protein	Chromosome (NC_003997)	NP_847273.1	240827
49889	D07	BA2752	hypothetical protein	Chromosome (NC_003997)	NP_845102.1	240844
49718	D08	BA0952	hypothetical protein	Chromosome (NC_003997)	NP_843457.1	240495
47870	D09	BA0942	hypothetical protein	Chromosome (NC_003997)	NP_843447.1	240503
50244	D10	BA2795	hypothetical protein	Chromosome (NC_003997)	NP_845144.1	240518
48887	D11	BA2817	btrG family protein	Chromosome (NC_003997)	NP_845164.1	240542
51585	D12	BA5159	pyridine nucleotide-disulphide oxidoreductase	Chromosome (NC_003997)	NP_847345.1	240557
51959	E01	BA2498	aminoacyl-histidine dipeptidase	Chromosome (NC_003997)	NP_844872.1	245709
50408	E02	BA5085	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847275.1	240777
50773	E03	BA0881	hypothetical protein	Chromosome (NC_003997)	NP_843393.1	240793
51097	E04	BA5613	hypothetical protein	Chromosome (NC_003997)	NP_847765.1	240803
51418	E05	BA5587	acyl-CoA dehydrogenase	Chromosome (NC_003997)	NP_847743.1	240818
49747	E06	BA5082	dedA family protein	Chromosome (NC_003997)	NP_847272.1	240828
50131	E07	BA5087	DNA-binding response regulator	Chromosome (NC_003997)	NP_847277.1	240850
47763	E08	BA2798	hypothetical protein	Chromosome (NC_003997)	NP_845147.1	240496
49876	E09	BA5156	hypothetical protein	Chromosome (NC_003997)	NP_847342.1	240504
50308	E10	BA5149	hypothetical protein	Chromosome (NC_003997)	NP_847335.1	240522
50794	E11	BA5164	hypothetical protein	Chromosome (NC_003997)	NP_847349.1	240543
51635	E12	BA5163	transporter, putative	Chromosome (NC_003997)	NP_847348.1	240559
49723	F01	BA2019	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844423.1	245710
48131	F02	BA2762	hypothetical protein	Chromosome (NC_003997)	NP_845111.1	240780

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50846	F03	BA5600	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847755.1	240795
51187	F04	BA5097	carbohydrate kinase, PfkB family	Chromosome (NC_003997)	NP_847284.1	240805
49488	F05	BA5610	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_847762.1	240819
49767	F06	BA2746	lipoprotein, putative	Chromosome (NC_003997)	NP_845096.1	240830
50141	F07	BA5106	DNA-binding response regulator	Chromosome (NC_003997)	NP_847292.1	240852
47792	F08	BA2799	hypothetical protein	Chromosome (NC_003997)	NP_845148.1	240497
49882	F09	BA0915	hypothetical protein	Chromosome (NC_003997)	NP_843422.1	240506
48716	F10	BA5177	alkylphosphonate utilization operon protein PhnA	Chromosome (NC_003997)	NP_847360.1	240526
51064	F11	BA0925	lipoprotein, putative	Chromosome (NC_003997)	NP_843431.1	240545
51678	F12	BA3312	diaminobutyrate-2-oxoglutarate transaminase	Chromosome (NC_003997)	NP_845600.1	240561
47651	G01	BA5596	hypothetical protein	Chromosome (NC_003997)	NP_847751.1	240768
50525	G02	BA2756	hypothetical protein	Chromosome (NC_003997)	NP_845106.1	240783
50851	G03	BA2768	thioredoxin reductase, putative	Chromosome (NC_003997)	NP_845117.1	240797
51250	G04	BA0872	N-acetylmuramoyl-L-alanine amidase, family 2	Chromosome (NC_003997)	NP_843385.1	240808
51432	G05	BA5586	acyl-CoA dehydrogenase	Chromosome (NC_003997)	NP_847742.1	240820
49764	G06	BA0864	lipoprotein, putative	Chromosome (NC_003997)	NP_843377.1	240832
50202	G07	BA5096	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_847283.1	240854
49808	G08	BA5154	hypothetical protein	Chromosome (NC_003997)	NP_847340.1	240498
48070	G09	BA2824	hypothetical protein	Chromosome (NC_003997)	NP_845170.1	240507
50517	G10	BA5176	membrane protein, putative	Chromosome (NC_003997)	NP_847359.1	240529
51110	G11	BA5135	D-isomer specific 2-hydroxyacid dehydrogenase family protein	Chromosome (NC_003997)	NP_847321.1	240547
51766	G12	BA0921	alpha-ketoglutarate permease, putative	Chromosome (NC_003997)	NP_843428.1	240563
50336	H01	BA5091	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847280.1	240769
48378	H02	BA0879	hypothetical protein	Chromosome (NC_003997)	NP_843391.1	240784
48808	H03	BA5614	hypothetical protein	Chromosome (NC_003997)	NP_847766.1	240798
51287	H04	BA2743	hypothetical protein	Chromosome (NC_003997)	NP_845093.1	240810
49487	H05	BA5584	DNA-directed RNA polymerase, delta subunit	Chromosome (NC_003997)	NP_847740.1	240821
49793	H06	BA2767	hypothetical protein	Chromosome (NC_003997)	NP_845116.1	240834
49656	H07	BA0916	hypothetical protein	Chromosome (NC_003997)	NP_843423.1	240489
47819	H08	BA3310	hypothetical protein	Chromosome (NC_003997)	NP_845599.1	240499
50002	H09	BA5175	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847358.1	240510
50526	H10	BA2800	hypothetical protein	Chromosome (NC_003997)	NP_845149.1	240531
51120	H11	BA5160	pyridine nucleotide-disulphide oxidoreductase	Chromosome (NC_003997)	NP_847346.1	240549

Table 35: *Bacillus anthracis* Gateway® Clone, Plate 35 (QMG002915), NR-19759¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50174	A02	BA3335	hypothetical protein	Chromosome (NC_003997)	NP_845622.1	240581

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48225	A03	BA5632	hypothetical protein	Chromosome (NC_003997)	NP_847782.1	240598
51146	A04	BA5188	spore coat protein cotS	Chromosome (NC_003997)	NP_847371.1	240617
51484	A05	BA3302	transporter, putative	Chromosome (NC_003997)	NP_845592.1	240635
49638	A06	BA0964	hypothetical protein	Chromosome (NC_003997)	NP_843469.1	240646
49962	A07	BA5661	DNA-binding response regulator	Chromosome (NC_003997)	NP_847809.1	240660
50205	A08	BA1497	DNA-binding response regulator ResD	Chromosome (NC_003997)	NP_843949.1	247935
50566	A09	BA3877	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_846125.1	247945
50814	A10	BA3856	Ser/Thr protein phosphatase family protein	Chromosome (NC_003997)	NP_846106.1	247957
51201	A11	BA3865	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_846115.1	247969
49704	A12	BA1499	ATP:cob(I)alamin adenosyltransferase, putative	Chromosome (NC_003997)	NP_843951.1	247979
51878	B01	BA0950	hypothetical protein	Chromosome (NC_003997)	NP_843455.1	240567
50479	B02	BA3348	membrane protein, putative	Chromosome (NC_003997)	NP_845634.1	240587
50800	B03	BA3307	L-serine dehydratase, iron-sulfur-dependent, alpha subunit	Chromosome (NC_003997)	NP_845596.1	240599
51189	B04	BA5630	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_847781.1	240619
49412	B05	BA3318	hypothetical protein	Chromosome (NC_003997)	NP_845606.1	240636
51608	B06	BA5657	voltage-gated chloride channel family protein	Chromosome (NC_003997)	NP_847805.1	240647
50003	B07	BA0966	hypothetical protein	Chromosome (NC_003997)	NP_843471.1	240662
81868	B08	BA3860	copper-ion-binding protein	Chromosome (NC_003997)	NP_846110.1	247936
48538	B09	BA3861	hypothetical protein	Chromosome (NC_003997)	NP_846111.1	247946
48975	B10	BA3878	glyoxylase family protein	Chromosome (NC_003997)	NP_846126.1	247958
49501	B11	BA3870	methylated-DNA--protein-cysteine S-methyltransferase	Chromosome (NC_003997)	NP_846119.1	247970
51606	B12	BA3872	peptidase T	Chromosome (NC_003997)	NP_846121.1	247980
51951	C01	BA0944	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_843449.1	240569
47889	C02	BA3285	hypothetical protein	Chromosome (NC_003997)	NP_845578.1	240588
50862	C03	BA3349	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845635.1	240603
51199	C04	BA3323	hypothetical protein	Chromosome (NC_003997)	NP_845611.1	240621
51490	C05	BA3320	D-3-phosphoglycerate dehydrogenase, putative	Chromosome (NC_003997)	NP_845608.1	240637
51633	C06	BA3319	hypothetical protein	Chromosome (NC_003997)	NP_845607.1	240649
50051	C07	BA5659	cyclic nucleotide-binding domain protein	Chromosome (NC_003997)	NP_847807.1	240666
48235	C08	BA3862	hypothetical protein	Chromosome (NC_003997)	NP_846112.1	247938
48594	C09	BA3852	hypothetical protein	Chromosome (NC_003997)	NP_846102.1	247948
50849	C10	BA1477	hypothetical protein	Chromosome (NC_003997)	NP_843931.1	247959
49492	C11	BA1481	site-specific recombinase, phage integrase family	Chromosome (NC_003997)	NP_843934.1	247971
49770	C12	BA3869	Ada regulatory protein/6-O-methylguanine-DNA methyltransferase	Chromosome (NC_003997)	NP_846118.1	247983
51975	D01	BA5155	cytosol aminopeptidase	Chromosome (NC_003997)	NP_847341.1	240571

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50564	D02	BA5629	iron compound ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847780.1	240589
50898	D03	BA3294	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_845586.1	240605
51214	D04	BA3314	hydrogenase expression/formation protein HypE	Chromosome (NC_003997)	NP_845602.1	240623
51552	D05	BA3342	major facilitator family transporter	Chromosome (NC_003997)	NP_845628.1	240639
51638	D06	BA5654	homoserine dehydrogenase	Chromosome (NC_003997)	NP_847802.1	240651
50058	D07	BA5625	membrane protein, putative	Chromosome (NC_003997)	NP_847776.1	240668
50423	D08	BA3887	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_846134.1	247939
50600	D09	BA3863	hypothetical protein	Chromosome (NC_003997)	NP_846113.1	247951
50873	D10	BA3871	DNA-3-methyladenine glycosidase	Chromosome (NC_003997)	NP_846120.1	247961
51311	D11	BA3854	extracellular exochitinase Chi36	Chromosome (NC_003997)	NP_846104.1	247972
51864	D12	BA3853	GABA permease	Chromosome (NC_003997)	NP_846103.1	247984
49507	E01	BA0959	CDP-diacylglycerol--serine O-phosphatidyltransferase	Chromosome (NC_003997)	NP_843464.1	240572
50594	E02	BA5663	phosphomethylpyrimidine kinase	Chromosome (NC_003997)	NP_847810.1	240591
51058	E03	BA3321	phosphoserine aminotransferase	Chromosome (NC_003997)	NP_845609.3	240609
51258	E04	BA3280	oxidoreductase, Gfo/Idh/MocA family	Chromosome (NC_003997)	NP_845574.1	240625
51564	E05	BA5668	major facilitator family transporter	Chromosome (NC_003997)	NP_847815.1	240641
51662	E06	BA3288	impB/mucB/samB family protein	Chromosome (NC_003997)	NP_845581.1	240655
50120	E07	BA5633	hypothetical protein	Chromosome (NC_003997)	NP_847783.1	240670
48230	E08	BA1475	hypothetical protein	Chromosome (NC_003997)	NP_843929.1	247940
50658	E09	BA1479	hypothetical protein	Chromosome (NC_003997)	NP_843932.1	247953
49286	E10	BA1507	lysM domain protein	Chromosome (NC_003997)	NP_843959.1	247962
49630	E11	BA1506	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_843958.1	247973
49828	E12	BA1500	peptidase, M23/M37 family	Chromosome (NC_003997)	NP_843952.1	247985
52075	F01	BA2825	peptidase M3 family protein	Chromosome (NC_003997)	NP_845171.1	240575
50858	F02	BA5655	homoserine O-succinyltransferase	Chromosome (NC_003997)	NP_847803.2	240593
51076	F03	BA5652	sugar-binding transcriptional regulator, LacI family	Chromosome (NC_003997)	NP_847800.1	240611
49127	F04	BA3316	transcriptional regulator, AsnC family	Chromosome (NC_003997)	NP_845604.1	240628
49570	F05	BA3286	hypothetical protein	Chromosome (NC_003997)	NP_845579.1	240642
51689	F06	BA3317	amino acid permease family protein	Chromosome (NC_003997)	NP_845605.2	240657
50100	F07	BA1501	hypothetical protein	Chromosome (NC_003997)	NP_843953.1	247931
48320	F08	BA1503	ferredoxin	Chromosome (NC_003997)	NP_843955.1	247942
48909	F09	BA1487	hypothetical protein	Chromosome (NC_003997)	NP_843940.1	247954
50878	F10	BA1489	superoxide dismutase	Chromosome (NC_003997)	NP_843942.1	247963
51400	F11	BA1490	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_843943.1	247974
49850	F12	BA1472	hypothetical protein	Chromosome (NC_003997)	NP_843927.1	247987
49585	G01	BA0953	hypothetical protein	Chromosome (NC_003997)	NP_843458.1	240576

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50705	G02	BA3281	hypothetical protein	Chromosome (NC_003997)	NP_845575.1	240595
51104	G03	BA3283	sugar-binding transcriptional regulator, LacI family	Chromosome (NC_003997)	NP_845576.1	240613
51348	G04	BA5670	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_847817.1	240631
51558	G05	BA3345	major facilitator family transporter	Chromosome (NC_003997)	NP_845631.1	240643
49877	G06	BA5653	hypothetical protein	Chromosome (NC_003997)	NP_847801.1	240658
81867	G07	BA1480	hypothetical protein	Chromosome (NC_003997)	NP_843933.1	247932
50519	G08	BA1470	membrane protein, putative	Chromosome (NC_003997)	NP_843925.2	247943
50759	G09	BA1509	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_843960.1	247955
49463	G10	BA1494	resA protein	Chromosome (NC_003997)	NP_843946.1	247966
51455	G11	BA1496	resC protein	Chromosome (NC_003997)	NP_843948.1	247976
49923	G12	BA3873	membrane protein, putative	Chromosome (NC_003997)	NP_846122.1	247989
49635	H01	BA5168	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_847352.1	240578
50770	H02	BA5184	nucleotidyltransferase domain protein	Chromosome (NC_003997)	NP_847367.1	240597
51123	H03	BA0963	dihydroxyacetone kinase family protein	Chromosome (NC_003997)	NP_843468.1	240615
51381	H04	BA3284	TPR domain protein	Chromosome (NC_003997)	NP_845577.1	240633
51570	H05	BA3279	membrane protein, putative	Chromosome (NC_003997)	NP_845573.1	240645
51722	H06	BA5656	O-acetylhomoserine/O-acetylserine sulfhydrylase	Chromosome (NC_003997)	NP_847804.1	240659
48053	H07	BA1476	hypothetical protein	Chromosome (NC_003997)	NP_843930.1	247934
48424	H08	BA3858	DNA-binding protein HU	Chromosome (NC_003997)	NP_846108.1	247944
48976	H09	BA3882	hypothetical protein	Chromosome (NC_003997)	NP_846129.1	247956
51160	H10	BA3866	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_846116.1	247967
49686	H11	BA1502	hypothetical protein	Chromosome (NC_003997)	NP_843954.1	247977

Table 36: *Bacillus anthracis* Gateway® Clone, Plate 36 (QM002916), NR-19760¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50215	A02	BA1315	hypothetical protein	Chromosome (NC_003997)	NP_843781.1	241986
48249	A03	BA3724	hypothetical protein	Chromosome (NC_003997)	NP_845987.1	242003
49398	A04	BA3726	ccdC protein	Chromosome (NC_003997)	NP_845989.1	242036
51886	A05	BA1309	glycolate oxidase, subunit GlcD	Chromosome (NC_003997)	NP_843775.1	242051
47740	A06	BA5429	hypothetical protein	Chromosome (NC_003997)	NP_847597.1	245359
50404	A07	BA2603	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844966.1	245370
51506	A08	BA0743	major facilitator family transporter	Chromosome (NC_003997)	NP_843268.1	245422
50142	A09	BA5283	hypothetical protein	Chromosome (NC_003997)	NP_847462.1	244007
50815	A10	BA5265	hypothetical protein	Chromosome (NC_003997)	NP_847444.1	244048
52074	A11	BA5282	neutral protease B	Chromosome (NC_003997)	NP_847461.1	244090
50560	A12	BA4944	hypothetical protein	Chromosome (NC_003997)	NP_847141.1	245466
49997	B01	BA3884	membrane protein, putative	Chromosome (NC_003997)	NP_846131.1	247991
50225	B02	BA1318	late competence protein comC	Chromosome (NC_003997)	NP_843784.1	241988
50595	B03	BA1306	hypothetical protein	Chromosome (NC_003997)	NP_843773.1	242004
51672	B04	BA3710	imidazolonepropionase	Chromosome (NC_003997)	NP_845973.1	242037

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49856	B05	BA1348	CBS domain protein	Chromosome (NC_003997)	NP_843809.1	242052
50123	B06	BA0725	transcriptional activator TenA, putative	Chromosome (NC_003997)	NP_843250.1	245360
50493	B07	BA4952	aminoglycoside phosphotransferase family protein	Chromosome (NC_003997)	NP_847149.1	245376
51568	B08	BA2607	lipase, putative	Chromosome (NC_003997)	NP_844969.1	245424
50168	B09	BA1050	EcsC protein	Chromosome (NC_003997)	NP_843549.1	244009
50845	B10	BA5277	membrane protein, putative	Chromosome (NC_003997)	NP_847456.1	244050
49847	B11	BA5735	jag protein	Chromosome (NC_003997)	NP_847880.1	244091
50668	B12	BA2566	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844934.1	245468
47715	C01	BA1355	hypothetical protein	Chromosome (NC_003997)	NP_843815.1	241975
48001	C02	BA1363	hypothetical protein	Chromosome (NC_003997)	NP_843821.1	241989
50636	C03	BA3739	hypothetical protein	Chromosome (NC_003997)	NP_846000.1	242006
51762	C04	BA1323	potassium uptake protein, TrkH family	Chromosome (NC_003997)	NP_843789.1	242039
51902	C05	BA1316	iron-sulfur cluster-binding protein	Chromosome (NC_003997)	NP_843782.1	242055
50147	C06	BA2592	hypothetical protein	Chromosome (NC_003997)	NP_844958.1	245362
50554	C07	BA0734	phosphomethylpyrimidine kinase	Chromosome (NC_003997)	NP_843259.1	245378
51750	C08	BA5427	endopeptidase lytE, putative	Chromosome (NC_003997)	NP_847595.1	245430
48210	C09	BA5292	hypothetical protein	Chromosome (NC_003997)	NP_847471.1	244020
51408	C10	BA2932	glutathionylspermidine synthase, putative	Chromosome (NC_003997)	NP_845268.1	244062
50026	C11	BA5275	DNA-binding response regulator	Chromosome (NC_003997)	NP_847454.1	244093
48413	C12	BA4919	hypothetical protein	Chromosome (NC_003997)	NP_847117.1	245469
50066	D01	BA3261	DNA-binding response regulator	Chromosome (NC_003997)	NP_845560.1	241976
50247	D02	BA3270	hypothetical protein	Chromosome (NC_003997)	NP_845568.1	241990
50642	D03	BA3266	membrane protein, putative	Chromosome (NC_003997)	NP_845564.1	242008
49509	D04	BA1354	hypothetical protein	Chromosome (NC_003997)	NP_843814.1	242040
52062	D05	BA1346	internalin, putative	Chromosome (NC_003997)	NP_843808.1	242059
50318	D06	BA0726	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843251.1	245364
50653	D07	BA5430	degV family protein	Chromosome (NC_003997)	NP_847598.1	245380
51748	D08	BA4938	UDP-N-acetylmuramate--alanine ligase	Chromosome (NC_003997)	NP_847136.1	245432
50524	D09	BA1063	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_843558.1	244029
51562	D10	BA5286	sodium/hydrogen exchanger family protein	Chromosome (NC_003997)	NP_847465.1	244066
52107	D11	BA5280	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_847459.1	244094
50757	D12	BA0703	quinol oxidase, subunit II	Chromosome (NC_003997)	NP_843230.1	245470
50117	E01	BA3268	hypothetical protein	Chromosome (NC_003997)	NP_845566.1	241978
50360	E02	BA1370	group I intron GIY-YIG endonuclease	Chromosome (NC_003997)	NP_843829.1	241994
48783	E03	BA1369	nrdI protein	Chromosome (NC_003997)	NP_843827.1	242011
51777	E04	BA1308	glycolate oxidase, iron-sulfur subunit, putative	Chromosome (NC_003997)	NP_843774.1	242041

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50038	E05	BA1312	DNA-binding response regulator	Chromosome (NC_003997)	NP_843778.1	242064
47894	E06	BA4954	hypothetical protein	Chromosome (NC_003997)	NP_847151.1	245365
48273	E07	BA4966	hypothetical protein	Chromosome (NC_003997)	NP_847161.1	245381
51884	E08	BA5414	carboxyl-terminal protease	Chromosome (NC_003997)	NP_847585.1	245436
50754	E09	BA5731	stage 0 sporulation protein J, putative	Chromosome (NC_003997)	NP_847876.1	244038
51805	E10	BA1073	hypothetical protein	Chromosome (NC_003997)	NP_843567.1	244074
50031	E11	BA3430	transaldolase, putative	Chromosome (NC_003997)	NP_845714.1	244095
51135	E12	BA4929	catabolite control protein A	Chromosome (NC_003997)	NP_847127.1	245484
47839	F01	BA1319	hypothetical protein	Chromosome (NC_003997)	NP_843785.1	241981
48139	F02	BA1344	hypothetical protein	Chromosome (NC_003997)	NP_843807.1	241997
49130	F03	BA3743	hypothetical protein	Chromosome (NC_003997)	NP_846004.1	242019
49643	F04	BA3738	hypothetical protein	Chromosome (NC_003997)	NP_845999.1	242042
47662	F05	BA0738	hypothetical protein	Chromosome (NC_003997)	NP_843263.1	245353
50329	F06	BA0727	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843252.1	245366
50685	F07	BA0745	phospholipase, putative	Chromosome (NC_003997)	NP_843270.1	245382
51939	F08	BA2609	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_844971.1	245440
50778	F09	BA5726	mechanosensitive ion channel family protein	Chromosome (NC_003997)	NP_847872.1	244040
51901	F10	BA1072	protoporphyrinogen oxidase	Chromosome (NC_003997)	NP_843566.2	244076
47628	F11	BA2586	hypothetical protein	Chromosome (NC_003997)	NP_844953.1	245447
48854	F12	BA2567	hypothetical protein	Chromosome (NC_003997)	NP_844935.1	245485
50181	G01	BA1317	ykgG family protein	Chromosome (NC_003997)	NP_843783.1	241982
50454	G02	BA1343	transcriptional regulator, DeoR family	Chromosome (NC_003997)	NP_843806.1	241998
49306	G03	BA1329	phaR protein	Chromosome (NC_003997)	NP_843794.1	242031
49679	G04	BA3728	hypothetical protein	Chromosome (NC_003997)	NP_845991.1	242044
50108	G05	BA5416	cell division ABC transporter, ATP-binding protein FtsE	Chromosome (NC_003997)	NP_847587.2	245354
50400	G06	BA0732	thiazole biosynthesis protein ThiG	Chromosome (NC_003997)	NP_843257.1	245368
48357	G07	BA0714	ferrous iron transport protein A, putative	Chromosome (NC_003997)	NP_843239.1	245383
49848	G08	BA0729	regulatory protein TenI	Chromosome (NC_003997)	NP_843254.1	245441
50783	G09	BA3424	transporter, EamA family	Chromosome (NC_003997)	NP_845708.1	244042
51840	G10	BA5734	tRNA modification GTPase TrmE	Chromosome (NC_003997)	NP_847879.1	244078
49951	G11	BA4917	acetoin utilization protein AcuB	Chromosome (NC_003997)	NP_847115.1	245448
51333	G12	BA2582	transcriptional regulator, AraC family	Chromosome (NC_003997)	NP_844949.1	245488
50204	H01	BA1361	radical SAM domain protein	Chromosome (NC_003997)	NP_843819.1	241984
50495	H02	BA1322	hypothetical protein	Chromosome (NC_003997)	NP_843788.1	242002
49356	H03	BA1362	hypothetical protein	Chromosome (NC_003997)	NP_843820.1	242034
49685	H04	BA1366	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843824.1	242046
49980	H05	BA4950	methyltransferase, putative	Chromosome (NC_003997)	NP_847147.1	245356
47990	H06	BA4965	hypothetical protein	Chromosome (NC_003997)	NP_847160.1	245369
51369	H07	BA0730	glycine oxidase	Chromosome (NC_003997)	NP_843255.1	245408
49919	H08	BA5431	conserved hypothetical protein TIGR00257	Chromosome (NC_003997)	NP_847599.1	245445

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50811	H09	BA3431	6-phosphogluconate dehydrogenase family protein	Chromosome (NC_003997)	NP_845715.1	244046
51897	H10	BA1066	membrane protein, putative	Chromosome (NC_003997)	NP_843561.1	244080
50185	H11	BA2564	phosphorylase family protein	Chromosome (NC_003997)	NP_844932.1	245459

Table 37: *Bacillus anthracis* Gateway® Clone, Plate 37 (QMG002917), NR-19761¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51849	A02	BA0689	proton/peptide symporter family protein	Chromosome (NC_003997)	NP_843216.1	245512
48302	A03	BA0764	hypothetical protein	Chromosome (NC_003997)	NP_843287.1	247596
51896	A04	BA0767	stage V sporulation protein R	Chromosome (NC_003997)	NP_843290.1	247651
50588	A05	BA5646	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_847794.1	240679
51731	A06	BA5673	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_847820.1	240741
50296	A07	BA5691	response regulator LytR	Chromosome (NC_003997)	NP_847837.1	240762
51629	A08	BA4728	N-acyl-D-amino-acid deacylase family protein	Chromosome (NC_003997)	NP_846939.1	246240
52147	A09	BA4757	excinuclease ABC, C subunit	Chromosome (NC_003997)	NP_846963.1	246261
50325	A10	BA4555	hypothetical protein	Chromosome (NC_003997)	NP_846777.1	246799
52070	A11	BA0372	PTS system, IIBC component	Chromosome (NC_003997)	NP_842916.1	246862
51145	A12	BA4650	Holliday junction DNA helicase RuvB	Chromosome (NC_003997)	NP_846867.1	246991
51385	B01	BA4933	aminopeptidase, putative	Chromosome (NC_003997)	NP_847131.1	245490
51943	B02	BA4921	sensor histidine kinase	Chromosome (NC_003997)	NP_847119.1	245521
51080	B03	BA1560	birA bifunctional protein	Chromosome (NC_003997)	NP_844010.1	247603
51953	B04	BA0008	inosine-5'-monophosphate dehydrogenase	Chromosome (NC_003997)	NP_842579.1	247652
50753	B05	BA5685	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_847831.1	240691
51732	B06	BA5693	major facilitator family transporter	Chromosome (NC_003997)	NP_847839.1	240743
50355	B07	BA3385	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_845671.1	240766
51628	B08	BA4727	N-acyl-D-amino-acid deacylase family protein	Chromosome (NC_003997)	NP_846938.1	246242
50368	B09	BA4237	lipoprotein, putative	Chromosome (NC_003997)	NP_846472.1	246262
50483	B10	BA0373	endonuclease/exonuclease/phosphatase family protein	Chromosome (NC_003997)	NP_842917.1	246803
52122	B11	BA0369	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_842913.1	246865
51266	B12	BA4648	S-adenosylmethionine:tRNA ribosyltransferase-isomerase	Chromosome (NC_003997)	NP_846865.1	246993
51478	C01	BA4918	acetoin utilization protein AcuC	Chromosome (NC_003997)	NP_847116.1	245496
49797	C02	BA4908	ribosomal protein S4	Chromosome (NC_003997)	NP_847106.1	245526
51092	C03	BA0755	sucrose operon repressor	Chromosome (NC_003997)	NP_843279.1	247605
50101	C04	BA1549	hypothetical protein	Chromosome (NC_003997)	NP_843999.1	247653
50767	C05	BA3365	ABC transporter, permease protein	Chromosome (NC_003997)	NP_845651.1	240695

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51760	C06	BA5681	membrane protein, putative	Chromosome (NC_003997)	NP_847828.1	240747
47813	C07	BA1873	hypothetical protein	Chromosome (NC_003997)	NP_844289.1	246177
49943	C08	BA1861	methyl-accepting/DNA response regulator, putative	Chromosome (NC_003997)	NP_844278.1	246243
52150	C09	BA4754	succinate dehydrogenase, flavoprotein subunit	Chromosome (NC_003997)	NP_846960.1	246263
50573	C10	BA4595	iron compound ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846814.1	246811
52135	C11	BA4586	phenylalanine-4-hydroxylase, putative	Chromosome (NC_003997)	NP_846806.1	246867
48500	C12	BA0047	stage V sporulation protein G	Chromosome (NC_003997)	NP_842616.1	246994
51501	D01	BA4906	methionine gamma-lyase	Chromosome (NC_003997)	NP_847104.1	245498
50520	D02	BA1555	dihydrodipicolinate reductase	Chromosome (NC_003997)	NP_844005.1	247582
49613	D03	BA0766	nitroreductase family protein	Chromosome (NC_003997)	NP_843289.1	247636
51963	D04	BA0753	sucrose-6-phosphate hydrolase	Chromosome (NC_003997)	NP_843277.1	247654
51090	D05	BA5705	guanosine monophosphate reductase	Chromosome (NC_003997)	NP_847851.1	240707
51801	D06	BA3356	membrane protein, putative	Chromosome (NC_003997)	NP_845642.1	240749
50485	D07	BA0533	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843068.1	246186
51726	D08	BA1894	pyrimidine-nucleoside phosphorylase	Chromosome (NC_003997)	NP_844305.1	246246
50171	D09	BA2223	aspartate racemase family protein	Chromosome (NC_003997)	NP_844615.1	246787
51424	D10	BA4600	cystathionine beta-lyase	Chromosome (NC_003997)	NP_846819.1	246843
50648	D11	BA0071	dihydropteroate synthase	Chromosome (NC_003997)	NP_842640.1	246963
51283	D12	BA0419	calcium/proton exchanger	Chromosome (NC_003997)	NP_842962.1	246995
51602	E01	BA2577	permease, putative	Chromosome (NC_003997)	NP_844944.1	245500
50581	E02	BA2642	cobalt transport protein	Chromosome (NC_003997)	NP_845004.1	247584
51621	E03	BA3942	zinc protease, insulinase family	Chromosome (NC_003997)	NP_846186.1	247637
50155	E04	BA1557	hypothetical protein	Chromosome (NC_003997)	NP_844007.1	247655
49470	E05	BA5679	hypothetical protein	Chromosome (NC_003997)	NP_847826.1	240724
51873	E06	BA5671	membrane protein, putative	Chromosome (NC_003997)	NP_847818.1	240751
50974	E07	BA1891	deoxyribonucleoside regulator DeoR, putative	Chromosome (NC_003997)	NP_844302.1	246206
50135	E08	BA1877	DNA-binding response regulator	Chromosome (NC_003997)	NP_844293.1	246251
47850	E09	BA4570	ribosomal protein L33	Chromosome (NC_003997)	NP_846792.1	246790
51567	E10	BA2222	alcohol dehydrogenase, iron-containing	Chromosome (NC_003997)	NP_844614.2	246845
50731	E11	BA0409	ribonuclease BN, putative	Chromosome (NC_003997)	NP_842953.1	246969
51842	E12	BA0426	RNA methyltransferase, TrmA family	Chromosome (NC_003997)	NP_842968.1	247017
51641	F01	BA4911	tyrosyl-tRNA synthetase	Chromosome (NC_003997)	NP_847109.1	245502
50677	F02	BA2634	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_844996.1	247586
49785	F03	BA3938	dipicolinate synthase, B subunit	Chromosome (NC_003997)	NP_846182.1	247641
50169	F04	BA1569	DNA replication protein DnaD	Chromosome (NC_003997)	NP_844019.1	247656
51676	F05	BA5639	D-alanyl-D-alanine carboxypeptidase, putative	Chromosome (NC_003997)	NP_847788.1	240735
51944	F06	BA5676	polysaccharide biosynthesis protein, putative	Chromosome (NC_003997)	NP_847823.1	240757

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51078	F07	BA0521	yfhP protein	Chromosome (NC_003997)	NP_843057.1	246214
51995	F08	BA1862	acetyl-CoA hydrolase/transferase family protein	Chromosome (NC_003997)	NP_844279.1	246254
50200	F09	BA4566	RNA polymerase sigma-27 factor	Chromosome (NC_003997)	NP_846788.1	246791
51851	F10	BA4574	alkaline phosphatase	Chromosome (NC_003997)	NP_846796.1	246854
50740	F11	BA0070	4-amino-4-deoxychorismate lyase PabC	Chromosome (NC_003997)	NP_842639.1	246971
51911	F12	BA2281	arginine/ornithine antiporter	Chromosome (NC_003997)	NP_844667.1	247023
51650	G01	BA0685	hypothetical protein	Chromosome (NC_003997)	NP_843212.1	245504
48117	G02	BA3931	hypothetical protein	Chromosome (NC_003997)	NP_846175.1	247587
51883	G03	BA4978	collagen triple helix repeat domain protein	Chromosome (NC_003997)	NP_847172.1	247647
50193	G04	BA1534	2-heptaprenyl-1,4-naphthoquinone methyltransferase	Chromosome (NC_003997)	NP_843985.1	247657
51682	G05	BA3376	histidyl-tRNA synthetase	Chromosome (NC_003997)	NP_845662.1	240737
52027	G06	BA5678	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847825.1	240759
51578	G07	BA1888	enterotoxin	Chromosome (NC_003997)	NP_844300.1	246234
52031	G08	BA4729	bacterial extracellular solute-binding protein, family 5	Chromosome (NC_003997)	NP_846940.1	246256
50224	G09	BA0368	amino acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842912.1	246795
51982	G10	BA4569	hypothetical protein	Chromosome (NC_003997)	NP_846791.1	246858
50756	G11	BA0066	chaperonin, 33 kDa	Chromosome (NC_003997)	NP_842635.1	246973
49597	G12	BA0038	primase-related protein	Chromosome (NC_003997)	NP_842607.1	247026
51830	H01	BA2585	hypothetical protein	Chromosome (NC_003997)	NP_844952.2	245510
50775	H02	BA2645	hypothetical protein	Chromosome (NC_003997)	NP_845007.1	247592
50054	H03	BA1545	menaquinol-cytochrome c reductase, cytochrome b subunit	Chromosome (NC_003997)	NP_843995.1	247648
50549	H04	BA5651	lipase/acylhydrolase, putative	Chromosome (NC_003997)	NP_847799.1	240677
49782	H05	BA3378	hypothetical protein	Chromosome (NC_003997)	NP_845664.1	240740
50289	H06	BA3331	DnaD domain protein	Chromosome (NC_003997)	NP_845619.1	240760
51596	H07	BA4744	membrane protein, putative	Chromosome (NC_003997)	NP_846953.1	246238
50369	H08	BA4246	membrane protein, putative	Chromosome (NC_003997)	NP_846481.1	246260
50242	H09	BA2243	TatCD protein	Chromosome (NC_003997)	NP_844634.2	246797
52003	H10	BA0344	alkyl hydroperoxide reductase, F subunit	Chromosome (NC_003997)	NP_842891.1	246860
50992	H11	BA0049	ribose-phosphate pyrophosphokinase	Chromosome (NC_003997)	NP_842618.1	246989

Table 38: *Bacillus anthracis* Gateway® Clone, Plate 38 (QMG002918), NR-19762¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50999	A02	BA3436	bacterial luciferase family protein	Chromosome (NC_003997)	NP_845720.1	248129
51543	A03	BA3401	membrane protein, putative	Chromosome (NC_003997)	NP_845686.1	248160
48135	A04	BA5378	hypothetical protein	Chromosome (NC_003997)	NP_847551.1	248004

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51241	A05	BA5360	phage major capsid protein, HK97 family	Chromosome (NC_003997)	NP_847534.1	248040
50722	A06	BA3190	ABC transporter, permease protein	Chromosome (NC_003997)	NP_845500.1	241114
49858	A07	BA3257	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_845557.1	241180
50527	A08	BA3699	hypothetical protein	Chromosome (NC_003997)	NP_845962.1	241233
49678	A09	BA3689	bioY family protein	Chromosome (NC_003997)	NP_845952.1	241296
51859	A10	BA4802	asparaginyl-tRNA synthetase	Chromosome (NC_003997)	NP_847005.1	245962
50283	A11	BA0031	hypothetical protein	Chromosome (NC_003997)	NP_842601.1	246707
51677	A12	BA0012	seryl-tRNA synthetase	Chromosome (NC_003997)	NP_842583.1	246760
51948	B01	BA0055	tetrapyrrole methylase family protein/MazG family protein	Chromosome (NC_003997)	NP_842624.1	247027
51128	B02	BA3408	tryptophanyl-tRNA synthetase, putative	Chromosome (NC_003997)	NP_845692.1	248135
51704	B03	BA2953	3-phosphoshikimate 1-carboxyvinyltransferase	Chromosome (NC_003997)	NP_845288.1	248164
50395	B04	BA3025	hypothetical protein	Chromosome (NC_003997)	NP_845356.1	248005
51847	B05	BA3030	catalase	Chromosome (NC_003997)	NP_845361.1	248065
50897	B06	BA3252	hypothetical protein	Chromosome (NC_003997)	NP_845552.1	241122
52111	B07	BA3202	chaperone protein hscC	Chromosome (NC_003997)	NP_845512.1	241185
51712	B08	BA3668	glycosyl hydrolase, family 18	Chromosome (NC_003997)	NP_845931.1	241270
50737	B09	BA4771	hypothetical protein	Chromosome (NC_003997)	NP_846977.1	245914
49754	B10	BA2457	O-methyltransferase family protein	Chromosome (NC_003997)	NP_844833.1	245963
50631	B11	BA0029	hypothetical protein	Chromosome (NC_003997)	NP_842599.1	246719
51690	B12	BA4609	peptidase, U32 family	Chromosome (NC_003997)	NP_846828.1	246763
52000	C01	BA0423	fumarate hydratase, class I	Chromosome (NC_003997)	NP_842966.1	247031
51159	C02	BA3438	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_845722.1	248137
51764	C03	BA3451	serine/threonine transporter family protein	Chromosome (NC_003997)	NP_845734.1	248166
50583	C04	BA3028	BNR repeat domain protein	Chromosome (NC_003997)	NP_845359.1	248009
51961	C05	BA3024	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_845355.1	248068
51573	C06	BA3206	peptidase, M20/M25/M40 family	Chromosome (NC_003997)	NP_845516.1	241153
47657	C07	BA3691	hypothetical protein	Chromosome (NC_003997)	NP_845954.1	241209
51781	C08	BA1263	pyridine nucleotide-disulfide oxidoreductase, class I	Chromosome (NC_003997)	NP_843735.1	241272
50762	C09	BA4786	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_846991.1	245918
52025	C10	BA0554	glycine betaine transporter	Chromosome (NC_003997)	NP_843089.1	245967
50763	C11	BA0398	ROK family protein	Chromosome (NC_003997)	NP_842942.1	246725
49895	C12	BA0361	hypothetical protein	Chromosome (NC_003997)	NP_842906.1	246776
50391	D01	BA0037	deoxyribonuclease, TatD family	Chromosome (NC_003997)	NP_842606.1	247045
49294	D02	BA3489	hypothetical protein	Chromosome (NC_003997)	NP_845769.1	248147
49710	D03	BA3485	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_845765.1	248170
50728	D04	BA5362	hypothetical protein	Chromosome (NC_003997)	NP_847536.1	248011
50046	D05	BA3255	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845555.1	241187

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51699	D06	BA3213	amino acid permease family protein	Chromosome (NC_003997)	NP_845522.1	241159
49769	D07	BA3665	hypothetical protein	Chromosome (NC_003997)	NP_845928.1	241216
51971	D08	BA3705	sodium/proline symporter family protein	Chromosome (NC_003997)	NP_845968.1	241276
50781	D09	BA2441	hypothetical protein	Chromosome (NC_003997)	NP_844817.1	245920
52037	D10	BA0557	SPFH domain/band 7 family protein	Chromosome (NC_003997)	NP_843092.1	245969
50810	D11	BA2263	mechanosensitive ion channel family protein	Chromosome (NC_003997)	NP_844652.1	246727
50326	D12	BA4764	hypothetical protein	Chromosome (NC_003997)	NP_846970.1	246078
50397	E01	BA4630	hesA/moeB/thiF family protein	Chromosome (NC_003997)	NP_846848.1	247047
51427	E02	BA2954	prephenate dehydrogenase	Chromosome (NC_003997)	NP_845289.1	248150
49657	E03	BA1080	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_843573.1	247995
50920	E04	BA3016	hypothetical protein	Chromosome (NC_003997)	NP_845347.1	248019
50055	E05	BA3229	DNA-binding response regulator	Chromosome (NC_003997)	NP_845535.1	241189
51789	E06	BA3246	hypothetical protein	Chromosome (NC_003997)	NP_845547.1	241161
49836	E07	BA1301	PAP2 family protein	Chromosome (NC_003997)	NP_843769.1	241220
52015	E08	BA3633	spore germination protein	Chromosome (NC_003997)	NP_845901.1	241282
50907	E09	BA4774	bacitracin ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846980.1	245924
50035	E10	BA0585	DNA-binding response regulator	Chromosome (NC_003997)	NP_843119.1	245972
51006	E11	BA2236	thymidylate synthase	Chromosome (NC_003997)	NP_844627.1	246731
50466	E12	BA4285	HAD-superfamily hydrolase, subfamily IIB	Chromosome (NC_003997)	NP_846519.1	246090
50009	F01	BA2945	hypothetical protein	Chromosome (NC_003997)	NP_845281.1	248092
51477	F02	BA3478	ankyrin repeat domain protein	Chromosome (NC_003997)	NP_845759.1	248154
50281	F03	BA5353	prophage LambdaBa03, transcriptional regulator domain protein	Chromosome (NC_003997)	NP_847527.1	247999
50929	F04	BA3038	ATPase, AAA family	Chromosome (NC_003997)	NP_845369.1	248021
50065	F05	BA3200	hypothetical protein	Chromosome (NC_003997)	NP_845510.1	241191
51916	F06	BA3180	deoxyribodipyrimidine photolyase family protein	Chromosome (NC_003997)	NP_845490.2	241167
49940	F07	BA3679	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_845942.1	241222
52052	F08	BA3690	medium-chain-fatty-acid--CoA ligase	Chromosome (NC_003997)	NP_845953.1	241288
51494	F09	BA0551	hypothetical protein	Chromosome (NC_003997)	NP_843086.1	245946
50119	F10	BA4777	DNA-binding response regulator	Chromosome (NC_003997)	NP_846982.1	245976
51018	F11	BA2255	substrate-binding family protein, putative	Chromosome (NC_003997)	NP_844645.1	246733
50480	F12	BA4273	glucosamine-6-phosphate isomerase	Chromosome (NC_003997)	NP_846507.1	246094
50189	G01	BA3392	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_845678.1	248102
51489	G02	BA2956	chorismate synthase	Chromosome (NC_003997)	NP_845291.1	248156
50288	G03	BA3019	hypothetical protein	Chromosome (NC_003997)	NP_845350.1	248001
51001	G04	BA5383	hypothetical protein	Chromosome (NC_003997)	NP_847556.1	248025

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50421	G05	BA3204	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_845514.1	241197
52008	G06	BA3183	NADH dehydrogenase, subunit 5	Chromosome (NC_003997)	NP_845493.1	241175
50338	G07	BA1282	hypothetical protein	Chromosome (NC_003997)	NP_843754.1	241226
49485	G08	BA3159	hypothetical protein	Chromosome (NC_003997)	NP_845475.1	241293
51734	G09	BA0561	citrate transporter, CitM family	Chromosome (NC_003997)	NP_843095.1	245954
50161	G10	BA4772	hypothetical protein	Chromosome (NC_003997)	NP_846978.1	245982
51338	G11	BA2264	sensor histidine kinase	Chromosome (NC_003997)	NP_844653.1	246748
50803	G12	BA4311	integrase/recombinase XerD	Chromosome (NC_003997)	NP_846544.1	246110
50343	H01	BA3414	hypothetical protein	Chromosome (NC_003997)	NP_845698.1	248108
51491	H02	BA3460	cyclopropane-fatty-acyl-phospholipid synthase	Chromosome (NC_003997)	NP_845742.1	248158
50347	H03	BA5366	triosephosphate isomerase	Chromosome (NC_003997)	NP_847540.1	248003
51188	H04	BA5376	stage V sporulation protein AD	Chromosome (NC_003997)	NP_847549.1	248035
48145	H05	BA3243	DNA-binding protein	Chromosome (NC_003997)	NP_845545.1	241200
52073	H06	BA3164	catalase	Chromosome (NC_003997)	NP_845478.1	241179
50419	H07	BA3158	hypothetical protein	Chromosome (NC_003997)	NP_845474.1	241230
49649	H08	BA1287	signal peptidase I	Chromosome (NC_003997)	NP_843758.1	241294
51800	H09	BA0578	citrate cation symporter family	Chromosome (NC_003997)	NP_843112.1	245960
48030	H10	BA4621	hypothetical protein	Chromosome (NC_003997)	NP_846840.1	246706
51605	H11	BA0390	major facilitator family transporter	Chromosome (NC_003997)	NP_842934.1	246756

Table 39: *Bacillus anthracis* Gateway® Clone, Plate 39 (QMG002919), NR-19763¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50306	A02	BA4278	hypothetical protein	Chromosome (NC_003997)	NP_846512.1	246169
51559	A03	BA4530	sporulation protein	Chromosome (NC_003997)	NP_846753.1	247283
50993	A04	BA0273	hypothetical protein	Chromosome (NC_003997)	NP_842825.1	247348
50213	A05	BA0291	phosphoribosylaminoimidazole-succinocarboxamide synthase	Chromosome (NC_003997)	NP_842841.1	247402
51706	A06	BA4693	glutamate-1-semialdehyde-2,1-aminomutase	Chromosome (NC_003997)	NP_846906.1	246506
50409	A07	BA0188	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842751.1	247682
50736	A08	BA2454	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_844830.1	245822
50152	A09	BA0570	serine/threonine phosphatase, putative	Chromosome (NC_003997)	NP_843104.1	245886
51757	A10	BA1438	diaminopimelate decarboxylase	Chromosome (NC_003997)	NP_843894.1	241960
50889	A11	BA2960	hypothetical protein	Chromosome (NC_003997)	NP_845295.1	243929
48107	A12	BA0682	hypothetical protein	Chromosome (NC_003997)	NP_843209.1	245550
51184	B01	BA4288	stage V sporulation protein AD	Chromosome (NC_003997)	NP_846521.1	246132
50017	B02	BA1643	hypothetical protein	Chromosome (NC_003997)	NP_844090.1	247230
51752	B03	BA1686	flagellar hook protein FlgE, putative	Chromosome (NC_003997)	NP_844128.1	247291
51396	B04	BA4515	RNA polymerase sigma-43 factor	Chromosome (NC_003997)	NP_846739.1	247368
47685	B05	BA0459	hypothetical protein	Chromosome (NC_003997)	NP_842998.1	246436

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51926	B06	BA2349	mmgE protein	Chromosome (NC_003997)	NP_844732.1	246512
50616	B07	BA0196	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_842759.1	247685
51649	B08	BA0604	hypothetical protein	Chromosome (NC_003997)	NP_843136.1	245853
50184	B09	BA2483	hypothetical protein	Chromosome (NC_003997)	NP_844858.1	245888
51821	B10	BA1402	MATE efflux family protein	Chromosome (NC_003997)	NP_843859.1	241962
51907	B11	BA2998	amino acid permease family protein	Chromosome (NC_003997)	NP_845330.1	243983
48129	B12	BA2532	hypothetical protein	Chromosome (NC_003997)	NP_844900.1	245552
51271	C01	BA4251	translation initiation factor, putative, aIF-2BI family	Chromosome (NC_003997)	NP_846486.1	246134
47948	C02	BA1627	hypothetical protein	Chromosome (NC_003997)	NP_844074.1	247233
51807	C03	BA1663	hypothetical protein	Chromosome (NC_003997)	NP_844109.1	247293
51395	C04	BA4512	conserved hypothetical protein TIGR00486	Chromosome (NC_003997)	NP_846736.1	247370
47698	C05	BA0476	hypothetical protein	Chromosome (NC_003997)	NP_843015.1	246438
51952	C06	BA2354	methylmalonic acid semialdehyde dehydrogenase	Chromosome (NC_003997)	NP_844736.1	246514
50672	C07	BA4430	hypothetical protein	Chromosome (NC_003997)	NP_846658.1	247689
51836	C08	BA0569	glycerol-3-phosphate ABC transporter, glycerol-3-phosphate-bind	Chromosome (NC_003997)	NP_843103.1	245864
50220	C09	BA4833	DNA-binding response regulator PhoP	Chromosome (NC_003997)	NP_847036.1	245890
51991	C10	BA1389	D-alanine-activating enzyme/D-alanine-D-alanyl carrier protein I	Chromosome (NC_003997)	NP_843847.1	241966
51919	C11	BA5301	sodium/alanine symporter family protein	Chromosome (NC_003997)	NP_847478.1	243985
48863	C12	BA0644	hypothetical protein	Chromosome (NC_003997)	NP_843175.1	245571
51527	D01	BA1931	branched-chain amino acid ABC transporter, branched chain amino	Chromosome (NC_003997)	NP_844340.1	246144
50266	D02	BA1647	NAD(P)H-flavin oxidoreductase	Chromosome (NC_003997)	NP_844094.1	247244
51806	D03	BA1636	adenosylmethionine--8-amino-7-oxononanoate aminotransferase, putative	Chromosome (NC_003997)	NP_844083.1	247295
51668	D04	BA0299	phosphoribosylamine--glycine ligase	Chromosome (NC_003997)	NP_842849.1	247378
49960	D05	BA4665	hypothetical protein	Chromosome (NC_003997)	NP_846880.1	246441
52007	D06	BA4662	L-aspartate oxidase	Chromosome (NC_003997)	NP_846877.1	246516
50807	D07	BA1523	hypothetical protein	Chromosome (NC_003997)	NP_843974.1	247694
51880	D08	BA4823	DNA replication protein DnaB	Chromosome (NC_003997)	NP_847026.1	245866
49883	D09	BA1428	amidotransferase HisH	Chromosome (NC_003997)	NP_843885.1	241888
52001	D10	BA1420	2-isopropylmalate synthase	Chromosome (NC_003997)	NP_843877.1	241968
51931	D11	BA5300	sodium/alanine symporter family protein	Chromosome (NC_003997)	NP_847477.1	243987
49599	D12	BA0646	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_843177.1	245602
51627	E01	BA4255	ribulose biphosphate carboxylase, putative	Chromosome (NC_003997)	NP_846490.1	246146
50396	E02	BA4036	S4 domain protein	Chromosome (NC_003997)	NP_846276.1	247250

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51946	E03	BA0321	glutamyl-tRNA(Gln) amidotransferase, A subunit	Chromosome (NC_003997)	NP_842868.1	247303
51740	E04	BA0290	adenylosuccinate lyase	Chromosome (NC_003997)	NP_842840.1	247382
50523	E05	BA0439	prophage LambdaBa04, DNA replication protein DnaC, putative	Chromosome (NC_003997)	NP_842980.1	246461
52065	E06	BA0481	phage minor structural protein	Chromosome (NC_003997)	NP_843020.1	246518
51197	E07	BA2650	penicillin-binding protein	Chromosome (NC_003997)	NP_845012.1	247716
52038	E08	BA2468	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844844.1	245874
50528	E09	BA3747	phosphonate ABC transporter, permease protein	Chromosome (NC_003997)	NP_846008.1	241916
52083	E10	BA1339	iron compound ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843802.1	241970
51988	E11	BA5317	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_847493.1	243991
49929	E12	BA4892	hypothetical protein	Chromosome (NC_003997)	NP_847092.1	245609
49924	F01	BA4257	class II aldolase/adducin domain protein	Chromosome (NC_003997)	NP_846492.1	246153
50572	F02	BA4040	conserved hypothetical protein TIGR00726	Chromosome (NC_003997)	NP_846280.1	247254
47714	F03	BA0256	hypothetical protein	Chromosome (NC_003997)	NP_842809.1	247316
51771	F04	BA0270	xanthine/uracil permease family protein	Chromosome (NC_003997)	NP_842822.1	247384
50541	F05	BA0478	hypothetical protein	Chromosome (NC_003997)	NP_843017.1	246463
50022	F06	BA4427	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_846655.1	247671
51280	F07	BA4422	proline dipeptidase	Chromosome (NC_003997)	NP_846650.1	247722
52048	F08	BA0576	sensory box histidine kinase	Chromosome (NC_003997)	NP_843110.1	245876
50896	F09	BA1384	hypothetical protein	Chromosome (NC_003997)	NP_843842.1	241924
50337	F10	BA5327	iron compound ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847503.1	243913
51987	F11	BA2974	malate:quinone-oxidoreductase	Chromosome (NC_003997)	NP_845308.1	243993
51969	F12	BA2531	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844899.1	245613
51962	G01	BA4286	stage V sporulation protein AF	Chromosome (NC_003997)	NP_846520.1	246156
51165	G02	BA4548	hypothetical protein	Chromosome (NC_003997)	NP_846771.1	247269
50410	G03	BA0278	hypothetical protein	Chromosome (NC_003997)	NP_842829.1	247324
50176	G04	BA4513	hypothetical protein	Chromosome (NC_003997)	NP_846737.1	247398
50861	G05	BA2350	carboxyvinyl-carboxyphosphonate phosphorylmutase	Chromosome (NC_003997)	NP_844733.1	246477
50154	G06	BA1533	heptaprenyl diphosphate synthase component I, putative	Chromosome (NC_003997)	NP_843984.1	247674
51651	G07	BA0768	alkaline ceramidase domain protein	Chromosome (NC_003997)	NP_843291.1	247732
52055	G08	BA0610	L-lactate permease	Chromosome (NC_003997)	NP_843142.1	245878
51331	G09	BA1385	2-nitropropane dioxygenase	Chromosome (NC_003997)	NP_843843.1	241942
50548	G10	BA5344	prophage LambdaBa03, HNH endonuclease family protein	Chromosome (NC_003997)	NP_847518.1	243917
52072	G11	BA2996	RocB protein	Chromosome (NC_003997)	NP_845328.1	243997
52017	G12	BA2552	carboxyl transferase domain protein	Chromosome (NC_003997)	NP_844920.1	245615
52067	H01	BA1912	membrane protein, putative	Chromosome (NC_003997)	NP_844321.1	246162

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51362	H02	BA4546	spore protease	Chromosome (NC_003997)	NP_846769.1	247273
50494	H03	BA0276	hypothetical protein	Chromosome (NC_003997)	NP_842828.1	247326
50164	H04	BA0265	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_842818.1	247400
51107	H05	BA4694	delta-aminolevulinic acid dehydratase	Chromosome (NC_003997)	NP_846907.1	246485
50371	H06	BA4997	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847191.1	247680
51968	H07	BA1530	stage IV sporulation protein A	Chromosome (NC_003997)	NP_843981.1	247735
52100	H08	BA2486	indolepyruvate decarboxylase, putative	Chromosome (NC_003997)	NP_844861.1	245880
49374	H09	BA3716	hypothetical protein	Chromosome (NC_003997)	NP_845979.1	241959
50647	H10	BA5308	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_847485.1	243923
50629	H11	BA4885	hypothetical protein	Chromosome (NC_003997)	NP_847085.1	245549

Table 40: *Bacillus anthracis* Gateway® Clone, Plate 40 (QM002920), NR-19764¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51535	A02	BA4297	D-alanyl-D-alanine carboxypeptidase	Chromosome (NC_003997)	NP_846530.1	246055
81873	A03	BA2910	hypothetical protein	Chromosome (NC_003997)	NP_845246.1	248183
49478	A04	BA5536	NADH dehydrogenase I, J subunit	Chromosome (NC_003997)	NP_847694.1	240899
51717	A05	BA1968	homoserine dehydrogenase	Chromosome (NC_003997)	NP_844374.1	245777
50353	A06	BA2658	hypothetical protein	Chromosome (NC_003997)	NP_845019.1	244368
50702	A07	BA1747	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_844180.1	246901
51588	A08	BA3556	major facilitator family transporter	Chromosome (NC_003997)	NP_845829.1	242815
50808	A09	BA1733	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_844168.1	247178
51973	A10	BA2831	aldehyde dehydrogenase	Chromosome (NC_003997)	NP_845177.1	244349
52060	A11	BXB0100	hypothetical protein BXB0100	pOX2 (NC_003981)	NP_653062.1	231017
51778	A12	BA3110	membrane protein, putative	Chromosome (NC_003997)	NP_845435.1	242737
52034	B01	BA4896	acetyl-CoA synthetase, putative	Chromosome (NC_003997)	NP_847096.1	245617
52044	B02	BA4322	5'-nucleotidase family protein	Chromosome (NC_003997)	NP_846555.1	246072
49821	B03	BA2933	lipoprotein, putative	Chromosome (NC_003997)	NP_845269.1	248190
51736	B04	BA2734	preprotein translocase, SecY subunit	Chromosome (NC_003997)	NP_845084.1	240904
51822	B05	BA1976	sensor histidine kinase	Chromosome (NC_003997)	NP_844382.2	245780
50531	B06	BA5009	hypothetical protein	Chromosome (NC_003997)	NP_847203.1	244376
51526	B07	BA1760	cobalamin synthesis protein, putative	Chromosome (NC_003997)	NP_844190.1	246934
51857	B08	BA3575	glycolate oxidase, subunit GlcD, putative	Chromosome (NC_003997)	NP_845845.1	242825
51207	B09	BA1735	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_844170.1	247192
51998	B10	BA5031	hypothetical protein	Chromosome (NC_003997)	NP_847224.2	244353
48962	B11	BXB0103	CAAX amino terminal protease family protein	pOX2 (NC_003981)	NP_653065.1	231018

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50471	B12	BA0894	enoyl-CoA hydratase/isomerase family protein	Chromosome (NC_003997)	NP_843405.1	240401
52033	C01	BA4894	hypothetical protein	Chromosome (NC_003997)	NP_847094.1	245619
49974	C02	BA2405	hydrolase, putative	Chromosome (NC_003997)	NP_844782.1	246073
81874	C03	BA2909	hypothetical protein	Chromosome (NC_003997)	NP_845245.1	248213
51922	C04	BA2737	transcriptional regulator, GntR family/aminotransferase, class	Chromosome (NC_003997)	NP_845087.1	240910
51868	C05	BA0629	amino acid permease family protein	Chromosome (NC_003997)	NP_843160.1	245782
51122	C06	BA0784	alcohol dehydrogenase, zinc-containing	Chromosome (NC_003997)	NP_843305.1	244396
51876	C07	BA1766	Na ⁺ /H ⁺ antiporter NhaC	Chromosome (NC_003997)	NP_844194.1	246946
51958	C08	BA3567	hypothetical protein	Chromosome (NC_003997)	NP_845839.1	242829
49176	C09	BA1668	hypothetical protein	Chromosome (NC_003997)	NP_844114.1	247204
52059	C10	BA2848	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_845192.1	244355
49102	C11	BXB0102	hypothetical protein BXB0102	pOX2 (NC_003981)	NP_653064.1	231019
50534	C12	BA2805	glycosyl hydrolase, family 25, putative	Chromosome (NC_003997)	NP_845154.1	240403
48007	D01	BA2421	hypothetical protein	Chromosome (NC_003997)	NP_844798.1	245996
50048	D02	BA4304	hypothetical protein	Chromosome (NC_003997)	NP_846537.1	246075
50962	D03	BA1012	HD domain protein	Chromosome (NC_003997)	NP_843513.1	248232
51942	D04	BA2724	decarboxylase, pyridoxal-dependent	Chromosome (NC_003997)	NP_845077.1	240912
51949	D05	BA0638	sodium/alanine symporter family protein	Chromosome (NC_003997)	NP_843169.1	245786
51335	D06	BA5455	hypothetical protein	Chromosome (NC_003997)	NP_847623.1	244410
51945	D07	BA0086	glutamyl-tRNA synthetase	Chromosome (NC_003997)	NP_842655.1	246948
50311	D08	BA1187	hypothetical protein	Chromosome (NC_003997)	NP_843664.1	242836
51812	D09	BA4051	UDP-N-acetylmuramoylalanine-D-glutamate ligase	Chromosome (NC_003997)	NP_846291.1	247207
52203	D10	BA5719	DHH subfamily 1 protein	Chromosome (NC_003997)	NP_847865.1	244362
50890	D11	BA3072	hypothetical protein	Chromosome (NC_003997)	NP_845402.1	242710
50574	D12	BA5109	naphthoate synthase	Chromosome (NC_003997)	NP_847295.1	240407
50545	E01	BA4337	biotin synthesis protein BioC, putative	Chromosome (NC_003997)	NP_846570.1	246007
81871	E02	BA2893	hypothetical protein	Chromosome (NC_003997)	NP_845233.1	248177
51493	E03	BA5248	acetyl-CoA acetyltransferase	Chromosome (NC_003997)	NP_847427.1	248243
51990	E04	BA5549	ATP synthase F1, alpha subunit	Chromosome (NC_003997)	NP_847707.1	240918
50110	E05	BA1975	DNA-binding response regulator	Chromosome (NC_003997)	NP_844381.1	245791
52042	E06	BA5019	phosphoenolpyruvate carboxykinase (ATP)	Chromosome (NC_003997)	NP_847213.1	244448
49776	E07	BA0101	yxB protein	Chromosome (NC_003997)	NP_842669.1	246949
52056	E08	BA3564	FAD-binding monooxygenase, PheA/TfdB family	Chromosome (NC_003997)	NP_845836.1	242837
49712	E09	BA4072	hypothetical protein	Chromosome (NC_003997)	NP_846311.1	247217
47868	E10	BXB0105	hypothetical protein BXB0105	pOX2 (NC_003981)	NP_653066.1	231013
51198	E11	BA3051	hypothetical protein	Chromosome (NC_003997)	NP_845381.1	242717
51918	E12	BA5120	glycogen synthase	Chromosome (NC_003997)	NP_847306.1	240477

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50946	F01	BA2400	inosine-uridine preferring nucleoside hydrolase family protein	Chromosome (NC_003997)	NP_844777.1	246029
49616	F02	BA1024	glycerol uptake operon antiterminator regulatory protein	Chromosome (NC_003997)	NP_843525.1	248178
50699	F03	BA5580	fructose-bisphosphate aldolase, class II	Chromosome (NC_003997)	NP_847736.1	240860
52002	F04	BA5532	NADH dehydrogenase I, N subunit	Chromosome (NC_003997)	NP_847690.1	240920
52088	F05	BA0632	trehalose-6-phosphate hydrolase	Chromosome (NC_003997)	NP_843163.1	245792
50057	F06	BA5005	aspartate racemase family protein	Chromosome (NC_003997)	NP_847199.1	244451
49805	F07	BA1814	hypothetical protein	Chromosome (NC_003997)	NP_844235.1	246951
52064	F08	BA1191	oligopeptide ABC transporter, oligopeptide-binding protein	Chromosome (NC_003997)	NP_843667.1	242839
51499	F09	BA2835	glycine oxidase, putative	Chromosome (NC_003997)	NP_845181.1	244335
49330	F10	BXB0031	hypothetical protein BXB0031	pOX2 (NC_003981)	NP_653001.1	231014
51303	F11	BA3091	transposase, IS605 family, OrfB	Chromosome (NC_003997)	NP_845418.1	242719
51935	F12	BA5108	AMP-binding protein	Chromosome (NC_003997)	NP_847294.1	240479
51324	G01	BA4300	membrane protein, putative	Chromosome (NC_003997)	NP_846533.1	246049
49629	G02	BA1039	hypothetical protein	Chromosome (NC_003997)	NP_843539.1	248180
48388	G03	BA5517	hypothetical protein	Chromosome (NC_003997)	NP_847676.1	240864
48697	G04	BA4850	hypothetical protein	Chromosome (NC_003997)	NP_847053.1	245754
52113	G05	BA0628	sensory box/GGDEF family protein	Chromosome (NC_003997)	NP_843159.1	245794
52102	G06	BA2107	formate--tetrahydrofolate ligase	Chromosome (NC_003997)	NP_844506.1	244452
51985	G07	BA0076	lysyl-tRNA synthetase	Chromosome (NC_003997)	NP_842645.1	246952
50102	G08	BA1680	hypothetical protein	Chromosome (NC_003997)	NP_844123.1	247145
51642	G09	BA5029	sensor histidine kinase	Chromosome (NC_003997)	NP_847222.1	244341
48264	G10	BXB0030	hypothetical protein BXB0030	pOX2 (NC_003981)	NP_653000.1	231015
51328	G11	BA3590	hypothetical protein	Chromosome (NC_003997)	NP_845860.1	242723
49743	G12	BA2206	hypothetical protein	Chromosome (NC_003997)	NP_844598.2	247052
51434	H01	BA0545	iron-sulfur cluster-binding protein, putative	Chromosome (NC_003997)	NP_843080.1	246053
81872	H02	BA2894	hypothetical protein	Chromosome (NC_003997)	NP_845234.1	248182
49139	H03	BA5561	low molecular weight phosphotyrosine protein phosphatase family	Chromosome (NC_003997)	NP_847719.1	240883
51615	H04	BA1983	AMP-binding protein	Chromosome (NC_003997)	NP_844389.1	245773
50272	H05	BA2102	hypothetical protein	Chromosome (NC_003997)	NP_844501.1	244366
50297	H06	BA0091	RNA methyltransferase, TrmH family, group 3	Chromosome (NC_003997)	NP_842659.1	246887
49486	H07	BA3572	hypothetical protein	Chromosome (NC_003997)	NP_845842.1	242814
50711	H08	BA1706	flagellin	Chromosome (NC_003997)	NP_844143.1	247174
51761	H09	BA5713	Yych protein	Chromosome (NC_003997)	NP_847859.1	244345
48646	H10	BXB0029	hypothetical protein BXB0029	pOX2 (NC_003981)	NP_652999.1	231016
51753	H11	BA3150	spore germination protein GerAA	Chromosome (NC_003997)	NP_845469.1	242735

Table 41: *Bacillus anthracis* Gateway® Clone, Plate 41 (QMG002921), NR-19765¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51900	A02	BA0492	amino acid permease family protein	Chromosome (NC_003997)	NP_843029.1	246420
51390	A03	BA1112	hypothetical protein	Chromosome (NC_003997)	NP_843599.1	242917
48112	A04	BA1444	hypothetical protein	Chromosome (NC_003997)	NP_843900.1	241042
51904	A05	BA4385	dihydrolipoamide dehydrogenase	Chromosome (NC_003997)	NP_846615.1	247823
52047	A06	BA2153	hypothetical protein	Chromosome (NC_003997)	NP_844551.1	244264
51793	B01	BA2216	sodium-dependent transporter, putative	Chromosome (NC_003997)	NP_844608.1	247117
52096	B02	BA4703	ATP-dependent protease LA	Chromosome (NC_003997)	NP_846916.1	246429
51773	B03	BA3526	arsenical pump family protein	Chromosome (NC_003997)	NP_845804.1	242927
51782	B04	BA3833	glutamine synthetase, type I	Chromosome (NC_003997)	NP_846084.1	241099
50446	B05	BA3966	transcriptional regulator CodY	Chromosome (NC_003997)	NP_846209.1	247505
52069	B06	BA5409	macrolide efflux pump, putative	Chromosome (NC_003997)	NP_847582.1	244266
51879	C01	BA2192	hypothetical protein	Chromosome (NC_003997)	NP_844584.1	247129
49608	C02	BA4217	hypothetical protein	Chromosome (NC_003997)	NP_846452.1	246530
51856	C03	BA3516	amino acid permease family protein	Chromosome (NC_003997)	NP_845795.1	242929
51813	C04	BA1448	sodium-dependent transporter, putative	Chromosome (NC_003997)	NP_843904.1	241105
51323	C05	BA4002	conserved hypothetical protein TIGR00048	Chromosome (NC_003997)	NP_846244.1	247539
48591	C06	BA0982	hypothetical protein	Chromosome (NC_003997)	NP_843483.1	239687
51899	D01	BA0341	Na ⁺ /H ⁺ antiporter NhaC	Chromosome (NC_003997)	NP_842888.1	247131
47756	D02	BA4212	hypothetical protein	Chromosome (NC_003997)	NP_846447.1	246535
48074	D03	BA4175	hypothetical protein	Chromosome (NC_003997)	NP_846413.1	246623
50451	D04	BA0225	hypothetical protein	Chromosome (NC_003997)	NP_842782.1	247417
50228	D05	BA3963	amino acid kinase family protein	Chromosome (NC_003997)	NP_846206.1	247572
52013	D06	BA2877	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_845218.1	239729
51910	E01	BA2198	hypothetical protein	Chromosome (NC_003997)	NP_844590.1	247133
51646	E02	BA4229	maltosaccharide ABC transporter, maltosaccharide-binding protein	Chromosome (NC_003997)	NP_846464.1	246579
52061	E03	BA1815	membrane protein, putative	Chromosome (NC_003997)	NP_844236.1	246689
51003	E04	BA0232	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_842788.1	247441
51498	E05	BA2079	alanine racemase	Chromosome (NC_003997)	NP_844479.1	244145
51697	E06	BA1511	glutamate dehydrogenase	Chromosome (NC_003997)	NP_843962.1	247906
50319	F01	BA2375	4'-phosphopantetheinyl transferase, putative	Chromosome (NC_003997)	NP_844757.1	246360
51903	F02	BA2300	L-lysine 2,3-aminomutase	Chromosome (NC_003997)	NP_844685.1	246593
52066	F03	BA1834	polysaccharide biosynthesis family protein	Chromosome (NC_003997)	NP_844253.1	246691
51966	F04	BA4447	glycine cleavage system P protein, subunit 2	Chromosome (NC_003997)	NP_846675.1	247485
52057	F05	BA5486	hypothetical protein	Chromosome (NC_003997)	NP_847648.1	244178
50546	G01	BA4717	glutamate racemase	Chromosome (NC_003997)	NP_846929.1	246368
51906	G02	BA2289	aldehyde dehydrogenase family protein	Chromosome (NC_003997)	NP_844674.1	246595

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52116	G03	BA1850	acetolactate synthase, large subunit, biosynthetic type	Chromosome (NC_003997)	NP_844268.1	246694
51881	G04	BA0164	6-phosphogluconate dehydrogenase, decarboxylating	Chromosome (NC_003997)	NP_842729.1	247819
52087	G05	BA5464	L-lactate permease	Chromosome (NC_003997)	NP_847632.1	244180
51096	H01	BA4734	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846944.1	246380
49750	H02	BA1139	hypothetical protein	Chromosome (NC_003997)	NP_843623.1	242857
50047	H03	BA3821	hypothetical protein	Chromosome (NC_003997)	NP_846073.1	241035
51889	H04	BA0178	oxidoreductase, FAD-binding	Chromosome (NC_003997)	NP_842742.1	247821
51905	H05	BA2144	uroporphyrin-III C-methyltransferase, putative	Chromosome (NC_003997)	NP_844542.1	244262

Table 42: *Bacillus anthracis* Gateway® Clone, Plate 42 (QMG003141), NR-19766¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52268	A02	BA1486	virulence factor MprF	Chromosome (NC_003997)	NP_843939.1	248808
52224	A03	BA5590	ferredoxin, 4Fe-4S	Chromosome (NC_003997)	NP_847746.1	248822
52276	A04	BA0996	sensor histidine kinase/response regulator	Chromosome (NC_003997)	NP_843497.1	248835
52248	A05	BA4346	2',3'-cyclic-nucleotide 2'-phosphodiesterase	Chromosome (NC_003997)	NP_846578.1	248845
52292	A06	BA0871	LPXTG-motif cell wall anchor domain protein	Chromosome (NC_003997)	NP_843384.1	248853
52295	A07	BA2572	excinuclease ABC, A subunit-related protein	Chromosome (NC_003997)	NP_844939.1	248862
52212	A08	BA0385	chitinase B	Chromosome (NC_003997)	NP_842929.1	248878
52278	A09	BA4012	cation-transporting ATPase, E1-E2 family	Chromosome (NC_003997)	NP_846254.1	248890
52229	A10	BA3944	polyribonucleotide nucleotidyltransferase	Chromosome (NC_003997)	NP_846188.1	248901
52298	A11	BA4478	5-methyltetrahydrofolate--homocysteine methyltransferase	Chromosome (NC_003997)	NP_846703.1	248912
52303	A12	BA1595	hypothetical protein	Chromosome (NC_003997)	NP_844044.1	248925
52262	B01	BA0928	hypothetical protein	Chromosome (NC_003997)	NP_843434.1	248792
52218	B02	BA4389	sensory box sigma-54 dependent DNA-binding response regulator	Chromosome (NC_003997)	NP_846619.1	248811
52225	B03	BA1069	penicillin-binding protein 1	Chromosome (NC_003997)	NP_843563.1	248824
52238	B04	BA3443	enhancin family protein	Chromosome (NC_003997)	NP_845726.1	248836
52284	B05	BA3480	glycosyl transferase, group 2 family protein/polysaccharide deacetylase	Chromosome (NC_003997)	NP_845761.1	248846
52252	B06	BA0595	heavy metal-transporting ATPase	Chromosome (NC_003997)	NP_843128.1	248854
52258	B07	BA5119	glycogen phosphorylase	Chromosome (NC_003997)	NP_847305.1	248863
52264	B08	BA0006	DNA gyrase, A subunit	Chromosome (NC_003997)	NP_842578.1	248879
52223	B09	BA4208	polyphosphate kinase	Chromosome (NC_003997)	NP_846443.1	248891
52231	B10	BA1905	DNA topoisomerase III	Chromosome (NC_003997)	NP_844316.1	248903
52237	B11	BA0294	phosphoribosylformylglycinamide synthase II	Chromosome (NC_003997)	NP_842844.1	248913

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52245	B12	BA4622	helicase, putative	Chromosome (NC_003997)	NP_846841.1	248926
52211	C01	BA1474	penicillin-binding protein	Chromosome (NC_003997)	NP_843928.1	248799
52219	C02	BA3214	penicillin-binding protein, putative	Chromosome (NC_003997)	NP_845523.1	248813
52274	C03	BA4787	hypothetical protein	Chromosome (NC_003997)	NP_846992.1	248825
52279	C04	BA3677	aconitate hydratase 1	Chromosome (NC_003997)	NP_845940.1	248837
52287	C05	BA1270	2-oxoglutarate dehydrogenase, E1 component	Chromosome (NC_003997)	NP_843742.1	248847
52255	C06	BA5249	3-hydroxyacyl-CoA dehydrogenase/enoyl-CoA hydratase/isomerase family protein	Chromosome (NC_003997)	NP_847428.1	248855
52297	C07	BA4849	DNA polymerase III, alpha subunit	Chromosome (NC_003997)	NP_847052.1	248866
52214	C08	BA1874	hypothetical protein	Chromosome (NC_003997)	NP_844290.1	248880
52281	C09	BA4584	minor extracellular protease VpR	Chromosome (NC_003997)	NP_846805.1	248892
52289	C10	BA4082	prophage LambdaBa02, tape measure protein, putative	Chromosome (NC_003997)	NP_846321.1	248904
52300	C11	BA0052	transcription-repair coupling factor	Chromosome (NC_003997)	NP_842621.1	248915
52304	C12	BA2125	respiratory nitrate reductase, alpha subunit	Chromosome (NC_003997)	NP_844523.1	248927
52213	D01	BA3432	transketolase	Chromosome (NC_003997)	NP_845716.1	248801
52270	D02	BA3116	phosphoenolpyruvate synthase	Chromosome (NC_003997)	NP_845441.1	248814
52226	D03	BA2818	ATP-dependent DNA helicase RecQ	Chromosome (NC_003997)	NP_845165.1	248826
52239	D04	BA2407	membrane protein, MmpL family	Chromosome (NC_003997)	NP_844784.1	248838
52249	D05	BA3313	hydrogenase maturation protein HypF	Chromosome (NC_003997)	NP_845601.1	248848
52293	D06	BA0589	molybdopterin oxidoreductase family protein	Chromosome (NC_003997)	NP_843123.1	248856
52259	D07	BA5334	ribonuclease R	Chromosome (NC_003997)	NP_847510.1	248869
52269	D08	BA4599	aldehyde-alcohol dehydrogenase	Chromosome (NC_003997)	NP_846818.1	248881
52282	D09	BA5487	helicase, putative	Chromosome (NC_003997)	NP_847649.1	248894
52232	D10	BA4528	HDIG domain protein	Chromosome (NC_003997)	NP_846751.1	248905
52241	D11	BA4984	spore germination protein GerHA	Chromosome (NC_003997)	NP_847178.1	248916
52246	D12	BA4551	DNA internalization-related competence protein ComEC/Rec2	Chromosome (NC_003997)	NP_846773.1	248928
52265	E01	BA3582	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_845852.1	248802
52220	E02	BA5666	carbon starvation protein A	Chromosome (NC_003997)	NP_847813.1	248815
52275	E03	BA3905	DNA mismatch repair protein MutS	Chromosome (NC_003997)	NP_846152.1	248829
52242	E04	BA3207	hypothetical protein	Chromosome (NC_003997)	NP_845517.1	248840
52288	E05	BA5395	excinuclease ABC, A subunit	Chromosome (NC_003997)	NP_847568.1	248849
52256	E06	BA1295	immune inhibitor A metalloprotease	Chromosome (NC_003997)	NP_843763.1	248857
52299	E07	BA1141	ATP-dependent nuclease, subunit B	Chromosome (NC_003997)	NP_843625.1	248870

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52215	E08	BA3993	ATP-dependent DNA helicase RecG	Chromosome (NC_003997)	NP_846235.1	248882
52227	E09	BA4497	penicillin-binding protein	Chromosome (NC_003997)	NP_846722.1	248895
52233	E10	BA4055	penicillin-binding protein	Chromosome (NC_003997)	NP_846295.1	248907
52301	E11	BA0102	DNA-directed RNA polymerase, beta subunit	Chromosome (NC_003997)	NP_842670.1	248917
52247	E12	BA4702	ATP-dependent protease La 1	Chromosome (NC_003997)	NP_846915.1	248930
52266	F01	BA2728	pullulanase, putative	Chromosome (NC_003997)	NP_845079.1	248804
52271	F02	BA3182	hypothetical protein	Chromosome (NC_003997)	NP_845492.1	248818
52230	F03	BA4953	pullulanase, putative	Chromosome (NC_003997)	NP_847150.1	248830
52280	F04	BA2533	sensory box/GGDEF family protein	Chromosome (NC_003997)	NP_844901.1	248842
52250	F05	BA2481	ABC transporter, permease protein	Chromosome (NC_003997)	NP_844856.1	248850
52294	F06	BA3631	molybdopterin oxidoreductase family protein	Chromosome (NC_003997)	NP_845899.1	248858
52261	F07	BA3774	prophage LambdaBa01, membrane protein, putative	Chromosome (NC_003997)	NP_846030.1	248871
52273	F08	BA4616	alanyl-tRNA synthetase	Chromosome (NC_003997)	NP_846835.1	248883
52283	F09	BA0414	hypothetical protein	Chromosome (NC_003997)	NP_842957.1	248896
52234	F10	BA0255	S1 RNA binding domain protein	Chromosome (NC_003997)	NP_842808.1	248909
52240	F11	BA0305	ATP-dependent DNA helicase PcrA	Chromosome (NC_003997)	NP_842854.1	248918
52251	F12	BA4639	single-stranded-DNA-specific exonuclease RecJ	Chromosome (NC_003997)	NP_846856.1	248932
52267	G01	BA5516	hypothetical protein	Chromosome (NC_003997)	NP_847675.1	248806
52272	G02	BA3805	prophage LambdaBa01, acyltransferase, putative	Chromosome (NC_003997)	NP_846058.1	248819
52236	G03	BA1302	transporter, putative	Chromosome (NC_003997)	NP_843770.1	248832
52244	G04	BA1011	hypothetical protein	Chromosome (NC_003997)	NP_843512.1	248843
52290	G05	BA3299	microbial collagenase, putative	Chromosome (NC_003997)	NP_845590.1	248851
52257	G06	BA0672	immune inhibitor A metalloprotease	Chromosome (NC_003997)	NP_843199.1	248859
52260	G07	BA0080	negative regulator of genetic competence ClpC/MecB	Chromosome (NC_003997)	NP_842649.1	248875
52216	G08	BA4269	PTS system, glucose-specific IIABC component	Chromosome (NC_003997)	NP_846503.1	248885
52228	G09	BA2180	TPR domain protein	Chromosome (NC_003997)	NP_844573.1	248899
52296	G10	BA1804	helicase, putative	Chromosome (NC_003997)	NP_844228.1	248910
52302	G11	BA0103	DNA-directed RNA polymerase, beta' subunit	Chromosome (NC_003997)	NP_842671.2	248923
52253	G12	BA0061	stage II sporulation protein E	Chromosome (NC_003997)	NP_842630.1	248936
52217	H01	BA2814	uvrD/Rep helicase family protein	Chromosome (NC_003997)	NP_845161.1	248807
52222	H02	BA0740	potassium-transporting ATPase, B subunit	Chromosome (NC_003997)	NP_843265.1	248820
52277	H03	BA5513	hypothetical protein	Chromosome (NC_003997)	NP_847672.1	248833
52285	H04	BA3896	hypothetical protein	Chromosome (NC_003997)	NP_846143.1	248844
52291	H05	BA0555	microbial collagenase, putative	Chromosome (NC_003997)	NP_843090.1	248852
81879	H06	BA4991	leucyl-tRNA synthetase	Chromosome (NC_003997)	NP_847185.1	248861
52263	H07	BA2345	penicillin-binding protein 1A	Chromosome (NC_003997)	NP_844728.1	248877
52256	E06	BA1295	immune inhibitor A metalloprotease	Chromosome (NC_003997)	NP_843763.1	248857

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52221	H08	BA3971	DNA topoisomerase I	Chromosome (NC_003997)	NP_846214.1	248889
52286	H09	BA1565	DnaQ family exonuclease/DinG family helicase, putative	Chromosome (NC_003997)	NP_844015.1	248900
52235	H10	BA4637	GTP pyrophosphokinase	Chromosome (NC_003997)	NP_846854.1	248911
52243	H11	BA4218	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase	Chromosome (NC_003997)	NP_846453.1	248924

Table 43: *Bacillus anthracis* Gateway® Clone, Plate 43 (QMG003142), NR-19767¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49151	A02	BA1352	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843812.1	253182
47752	A03	BA3673	hypothetical protein	Chromosome (NC_003997)	NP_845936.1	253202
49946	A04	BA3166	isochorismatase family protein	Chromosome (NC_003997)	NP_845480.1	253225
50323	A05	BA3602	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_845872.1	253242
50029	A06	BA2541	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844909.1	253663
49073	A07	BA4870	hypothetical protein	Chromosome (NC_003997)	NP_847071.1	253683
48247	A08	BA2492	hypothetical protein	Chromosome (NC_003997)	NP_844867.1	253706
50097	A09	BA4860	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_847061.1	253723
48393	A10	BA2464	hypothetical protein	Chromosome (NC_003997)	NP_844840.1	253747
47892	A11	BA4302	hypothetical protein	Chromosome (NC_003997)	NP_846535.1	253766
50438	A12	BA4249	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_846484.1	253789
52254	B01	BA3930	stage III sporulation protein E	Chromosome (NC_003997)	NP_846174.1	248938
49180	B02	BA3263	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_845562.1	253184
50187	B03	BA3178	hypothetical protein	Chromosome (NC_003997)	NP_845488.1	253205
47665	B04	BA1283	hypothetical protein	Chromosome (NC_003997)	NP_843755.1	253228
50401	B05	BA1232	enoyl-(acyl-carrier-protein) reductase	Chromosome (NC_003997)	NP_843704.1	253245
48149	B06	BA4882	hypothetical protein	Chromosome (NC_003997)	NP_847082.1	253665
51208	B07	BA2511	oxidoreductase, NAD-binding	Chromosome (NC_003997)	NP_844883.1	253684
48422	B08	BA2496	hypothetical protein	Chromosome (NC_003997)	NP_844871.1	253707
50179	B09	BA0630	trehalose operon transcriptional repressor	Chromosome (NC_003997)	NP_843161.1	253726
48582	B10	BA2434	hypothetical protein	Chromosome (NC_003997)	NP_844810.1	253750
49036	B11	BA4298	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_846531.1	253771
47806	B12	BA4765	hypothetical protein	Chromosome (NC_003997)	NP_846971.1	253791
50175	C01	BA3727	cytochrome c-type biogenesis protein CcdA	Chromosome (NC_003997)	NP_845990.1	253166
51379	C02	BA1310	transcriptional regulator, putative	Chromosome (NC_003997)	NP_843776.1	253187
48746	C03	BA3219	hypothetical protein	Chromosome (NC_003997)	NP_845526.1	253206

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47821	C04	BA3671	hypothetical protein	Chromosome (NC_003997)	NP_845934.1	253230
50444	C05	BA3625	formate transporter, putative	Chromosome (NC_003997)	NP_845893.1	253247
50488	C06	BA2517	iolB protein, putative	Chromosome (NC_003997)	NP_844888.1	253666
51240	C07	BA2012	membrane protein, putative	Chromosome (NC_003997)	NP_844416.1	253686
48431	C08	BA1984	hypothetical protein	Chromosome (NC_003997)	NP_844390.1	253709
50256	C09	BA0639	amino acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843170.1	253728
48672	C10	BA4769	spore coat protein C, putative	Chromosome (NC_003997)	NP_846975.1	253752
49183	C11	BA4303	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_846536.1	253775
50448	C12	BA4253	hydrolase, carbon-nitrogen family	Chromosome (NC_003997)	NP_846488.1	253793
50402	D01	BA1349	hypothetical protein	Chromosome (NC_003997)	NP_843810.1	253168
51539	D02	BA1332	hypothetical protein	Chromosome (NC_003997)	NP_843797.1	253188
48811	D03	BA3177	hypothetical protein	Chromosome (NC_003997)	NP_845487.1	253211
50420	D04	BA3160	hypothetical protein	Chromosome (NC_003997)	NP_845476.1	253232
50610	D05	BA3143	pyrroline-5-carboxylate reductase	Chromosome (NC_003997)	NP_845464.1	253249
48257	D06	BA2024	hypothetical protein	Chromosome (NC_003997)	NP_844428.1	253669
51687	D07	BA2510	alpha-ketoglutarate permease	Chromosome (NC_003997)	NP_844882.1	253690
48461	D08	BA2493	hypothetical protein	Chromosome (NC_003997)	NP_844868.1	253711
50274	D09	BA2446	N-acetylmuramoyl-L-alanine amidase, family 3	Chromosome (NC_003997)	NP_844822.1	253730
49937	D10	BA2424	hypothetical protein	Chromosome (NC_003997)	NP_844801.1	253756
51023	D11	BA4306	magnesium and cobalt transport protein CorA	Chromosome (NC_003997)	NP_846539.1	253778
50703	D12	BA1935	branched-chain amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_844344.1	253795
48602	E01	BA1368	hypothetical protein	Chromosome (NC_003997)	NP_843826.1	253170
51803	E02	BA1333	sodium transporter family protein	Chromosome (NC_003997)	NP_843798.1	253190
49032	E03	BA3220	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_845527.1	253212
50813	E04	BA3653	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845918.1	253233
49057	E05	BA3613	hypothetical protein	Chromosome (NC_003997)	NP_845883.1	253251
48552	E06	BA2066	hypothetical protein	Chromosome (NC_003997)	NP_844466.1	253672
49618	E07	BA2045	hypothetical protein	Chromosome (NC_003997)	NP_844447.1	253696
51061	E08	BA4845	acetyl-CoA carboxylase, carboxyl transferase, alpha subunit	Chromosome (NC_003997)	NP_847048.1	253716
48218	E09	BA2451	hypothetical protein	Chromosome (NC_003997)	NP_844827.1	253732
52050	E10	BA0559	sensor histidine kinase	Chromosome (NC_003997)	NP_843094.1	253757
51177	E11	BA1944	cytochrome d ubiquinol oxidase, subunit II	Chromosome (NC_003997)	NP_844353.1	253779
50965	E12	BA1923	L-lactate dehydrogenase	Chromosome (NC_003997)	NP_844332.1	253797
50676	F01	BA1321	formate/nitrite transporter family protein	Chromosome (NC_003997)	NP_843787.1	253173
49939	F02	BA3272	hypothetical protein	Chromosome (NC_003997)	NP_845570.1	253192
49191	F03	BA3179	TspO/MBR family protein	Chromosome (NC_003997)	NP_845489.1	253215
51452	F04	BA3157	transporter, putative	Chromosome (NC_003997)	NP_845473.1	253234
49813	F05	BA1964	mutT/nudix family protein	Chromosome (NC_003997)	NP_844372.1	253655

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48551	F06	BA2010	hypothetical protein	Chromosome (NC_003997)	NP_844414.1	253677
49791	F07	BA2048	dedA family protein	Chromosome (NC_003997)	NP_844450.1	253700
48561	F08	BA4854	hypothetical protein	Chromosome (NC_003997)	NP_847056.1	253717
48407	F09	BA2474	hypothetical protein	Chromosome (NC_003997)	NP_844850.1	253734
50138	F10	BA2423	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_844800.1	253760
51268	F11	BA1942	bacterial luciferase family protein	Chromosome (NC_003997)	NP_844351.1	253781
49664	F12	BA4276	conserved hypothetical protein TIGR00281	Chromosome (NC_003997)	NP_846510.2	253800
50748	G01	BA3271	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_845569.1	253174
50004	G02	BA1359	exsB protein	Chromosome (NC_003997)	NP_843817.1	253194
51997	G03	BA3712	histidine ammonia-lyase	Chromosome (NC_003997)	NP_845975.1	253222
48997	G04	BA1265	hypothetical protein	Chromosome (NC_003997)	NP_843737.1	253236
49840	G05	BA2047	mutT/nudix family protein	Chromosome (NC_003997)	NP_844449.1	253658
48650	G06	BA2064	chaperone CsaA	Chromosome (NC_003997)	NP_844464.1	253679
50606	G07	BA0640	amino acid ABC transporter, amino acid-binding protein	Chromosome (NC_003997)	NP_843171.1	253701
51273	G08	BA0617	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_843148.1	253719
50034	G09	BA0571	DNA-binding response regulator	Chromosome (NC_003997)	NP_843105.1	253738
47639	G10	BA0539	hypothetical protein	Chromosome (NC_003997)	NP_843074.1	253762
49887	G11	BA2406	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_844783.1	253783
51117	G12	BA1926	S-layer protein, putative	Chromosome (NC_003997)	NP_844335.1	253804
49129	H01	BA3719	hypothetical protein	Chromosome (NC_003997)	NP_845982.1	253180
50019	H02	BA3262	membrane protein, putative	Chromosome (NC_003997)	NP_845561.1	253197
52043	H03	BA3162	5'-nucleotidase, putative	Chromosome (NC_003997)	NP_845477.1	253224
51955	H04	BA3688	AMP-binding protein	Chromosome (NC_003997)	NP_845951.1	253239
49922	H05	BA1965	hypothetical protein	Chromosome (NC_003997)	NP_844373.1	253662
48737	H06	BA2006	hypothetical protein	Chromosome (NC_003997)	NP_844410.1	253681
50934	H07	BA4852	DHH subfamily 1 protein	Chromosome (NC_003997)	NP_847055.1	253703
49985	H08	BA1978	lipoprotein, putative	Chromosome (NC_003997)	NP_844384.1	253721
50601	H09	BA4319	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_846552.1	253743
50243	H10	BA2417	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_844794.1	253763
51877	H11	BA1943	cytochrome d ubiquinol oxidase, subunit I	Chromosome (NC_003997)	NP_844352.1	253785

Table 44: *Bacillus anthracis* Gateway® Clone, Plate 44 (QM003143), NR-19768¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50079	A02	BA1899	membrane protein, putative	Chromosome (NC_003997)	NP_844310.1	253821
48006	A03	BA2364	hypothetical protein	Chromosome (NC_003997)	NP_844746.1	253850
50516	A04	BA4680	septum site-determining protein MinD	Chromosome (NC_003997)	NP_846894.1	253869
51784	A05	BA4698	glutamyl-tRNA reductase	Chromosome (NC_003997)	NP_846911.1	253886
47906	A06	BA0935	hypothetical protein	Chromosome (NC_003997)	NP_843441.1	252905

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50086	A07	BA5127	sapB protein	Chromosome (NC_003997)	NP_847313.1	252926
48994	A08	BA5621	transcriptional regulator, MerR family	Chromosome (NC_003997)	NP_847772.1	252956
49159	A09	BA3295	spermine/spermidine acetyltransferase, putative	Chromosome (NC_003997)	NP_845587.1	252980
49835	A10	BA1215	hypothetical protein	Chromosome (NC_003997)	NP_843689.1	253259
48802	A11	BA3591	hypothetical protein	Chromosome (NC_003997)	NP_845861.1	253281
48683	A12	BA3565	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_845837.1	253304
51170	B01	BA1922	membrane protein, putative	Chromosome (NC_003997)	NP_844331.1	253805
48013	B02	BA4739	hypothetical protein	Chromosome (NC_003997)	NP_846948.1	253828
48524	B03	BA2363	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_844745.1	253853
48283	B04	BA2341	spore germination protein GerPF	Chromosome (NC_003997)	NP_844724.1	253871
49546	B05	BA4664	hypothetical protein	Chromosome (NC_003997)	NP_846879.1	253889
47961	B06	BA0896	hypothetical protein	Chromosome (NC_003997)	NP_843407.1	252906
52041	B07	BA0908	oligopeptide ABC transporter, oligopeptide-binding protein	Chromosome (NC_003997)	NP_843417.1	252928
51828	B08	BA2793	chitin binding protein, putative	Chromosome (NC_003997)	NP_845142.1	252959
49818	B09	BA5181	hypothetical protein	Chromosome (NC_003997)	NP_847364.1	252982
51894	B10	BA3141	amino acid permease family protein	Chromosome (NC_003997)	NP_845462.1	253261
48828	B11	BA3055	hypothetical protein	Chromosome (NC_003997)	NP_845385.1	253284
48871	B12	BA1189	hypothetical protein	Chromosome (NC_003997)	NP_843666.1	253305
51438	C01	BA4274	N-acetylglucosamine-6-phosphate deacetylase	Chromosome (NC_003997)	NP_846508.1	253807
50833	C02	BA4731	oligopeptide ABC transporter, oligopeptide-binding protein	Chromosome (NC_003997)	NP_846941.1	253829
48636	C03	BA2384	hypothetical protein	Chromosome (NC_003997)	NP_844765.1	253855
50628	C04	BA4697	hemX protein	Chromosome (NC_003997)	NP_846910.1	253873
50012	C05	BA4211	lipoprotein, putative	Chromosome (NC_003997)	NP_846446.1	253893
48103	C06	BA5115	cold shock protein CspD	Chromosome (NC_003997)	NP_847301.1	252908
50107	C07	BA2789	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_845138.1	252931
49404	C08	BA5158	mutT/nudix family protein	Chromosome (NC_003997)	NP_847344.1	252963
51763	C09	BA3306	serine/threonine transporter family protein	Chromosome (NC_003997)	NP_845595.1	252984
51974	C10	BA3609	aldehyde dehydrogenase	Chromosome (NC_003997)	NP_845879.1	253263
50746	C11	BA3048	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845378.1	253285
51094	C12	BA3537	hypothetical protein	Chromosome (NC_003997)	NP_845814.1	253309
51521	D01	BA4309	phosphopentomutase	Chromosome (NC_003997)	NP_846542.1	253810
49867	D02	BA1890	homoserine/threonine efflux protein, putative	Chromosome (NC_003997)	NP_844301.1	253839
51738	D03	BA4725	xanthine/uracil permease family protein	Chromosome (NC_003997)	NP_846936.1	253860
50627	D04	BA4661	nicotinate-nucleotide pyrophosphorylase, carboxylating	Chromosome (NC_003997)	NP_846876.1	253875
50137	D05	BA2295	acetate CoA-transferase, subunit A	Chromosome (NC_003997)	NP_844680.1	253895
50700	D06	BA0933	DnaD domain protein	Chromosome (NC_003997)	NP_843439.1	252910
48343	D07	BA5137	hypothetical protein	Chromosome (NC_003997)	NP_847323.1	252937

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50211	D08	BA5667	response regulator, putative	Chromosome (NC_003997)	NP_847814.1	252967
50876	D09	BA5680	membrane protein, putative	Chromosome (NC_003997)	NP_847827.1	252987
47640	D10	BA1202	hypothetical protein	Chromosome (NC_003997)	N/A	253267
51020	D11	BA3093	membrane protein, putative	Chromosome (NC_003997)	NP_845420.1	253290
51143	D12	BA3066	sensor histidine kinase, putative	Chromosome (NC_003997)	NP_845396.1	253311
51692	E01	BA1901	xaa-pro aminopeptidase, putative	Chromosome (NC_003997)	NP_844312.1	253811
51716	E02	BA1880	transport protein, NRAMP family	Chromosome (NC_003997)	NP_844295.1	253841
51874	E03	BA0489	arginine utilization regulatory protein RocR	Chromosome (NC_003997)	NP_843027.1	253862
51087	E04	BA4692	stage VI sporulation protein D, putative	Chromosome (NC_003997)	NP_846905.1	253878
50253	E05	BA0434	hypothetical protein	Chromosome (NC_003997)	NP_842976.1	253898
48395	E06	BA2771	hypothetical protein	Chromosome (NC_003997)	NP_845120.1	252912
50413	E07	BA0938	hypothetical protein	Chromosome (NC_003997)	NP_843444.2	252944
48286	E08	BA3350	hypothetical protein	Chromosome (NC_003997)	NP_845636.1	252969
48876	E09	BA3379	hypothetical protein	Chromosome (NC_003997)	NP_845665.1	252989
50053	E10	BA1201	membrane protein, putative	Chromosome (NC_003997)	NP_843676.1	253270
52022	E11	BA1204	cardiolipin synthetase	Chromosome (NC_003997)	NP_843679.1	253294
49983	E12	BA1130	S-layer protein, putative	Chromosome (NC_003997)	NP_843615.1	253316
49868	F01	BA1908	hypothetical protein	Chromosome (NC_003997)	NP_844319.1	253814
50345	F02	BA4737	membrane protein, putative	Chromosome (NC_003997)	NP_846946.1	253843
47918	F03	BA0456	hypothetical protein	Chromosome (NC_003997)	NP_842996.1	253864
51195	F04	BA4684	rod shape-determining protein MreB	Chromosome (NC_003997)	NP_846898.1	253879
50351	F05	BA1847	oxidoreductase, short-chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_844266.1	253899
49705	F06	BA2788	ATP-dependent Clp protease, proteolytic subunit ClpP	Chromosome (NC_003997)	NP_845137.1	252917
48755	F07	BA5169	hesB/yadR/yfhF family protein	Chromosome (NC_003997)	NP_847353.1	252948
50973	F08	BA5628	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_847779.1	252972
48914	F09	BA3357	hypothetical protein	Chromosome (NC_003997)	NP_845643.1	252994
50197	F10	BA3097	conserved hypothetical protein TIGR00370	Chromosome (NC_003997)	NP_845424.1	253274
52046	F11	BA1197	oligopeptide ABC transporter, oligopeptide-binding protein	Chromosome (NC_003997)	NP_843673.1	253296
52019	F12	BA3551	alpha-amylase	Chromosome (NC_003997)	NP_845825.1	253317
49967	G01	BA1918	2-hydroxychromene-2-carboxylate isomerase family protein	Chromosome (NC_003997)	NP_844327.1	253816
47699	G02	BA0500	hypothetical protein	Chromosome (NC_003997)	NP_843037.1	253846
50299	G03	BA0438	prophage LambdaBa04, DnaD replication protein, putative	Chromosome (NC_003997)	NP_842980.1	253866
48757	G04	BA0454	hypothetical protein	Chromosome (NC_003997)	NP_842994.1	253881
48260	G05	BA4214	hypothetical protein	Chromosome (NC_003997)	NP_846449.1	253902
51865	G06	BA5112	menaquinone-specific isochorismate synthase	Chromosome (NC_003997)	NP_847298.1	252922
48754	G07	BA5166	hypothetical protein	Chromosome (NC_003997)	NP_847351.1	252949
48626	G08	BA3322	hypothetical protein	Chromosome (NC_003997)	NP_845610.1	252973
49450	G09	BA1241	hypothetical protein	Chromosome (NC_003997)	NP_843713.1	253254

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48180	G10	BA3592	hypothetical protein	Chromosome (NC_003997)	NP_845862.1	253275
49901	G11	BA3085	hypothetical protein	Chromosome (NC_003997)	NP_845413.1	253298
50473	G12	BA1186	hypothetical protein	Chromosome (NC_003997)	NP_843663.1	253320
52051	H01	BA1921	amidase family protein	Chromosome (NC_003997)	NP_844330.1	253819
50254	H02	BA0510	pyruvate formate-lyase-activating enzyme	Chromosome (NC_003997)	NP_843046.1	253848
47995	H03	BA0437	hypothetical protein	Chromosome (NC_003997)	NP_842978.1	253867
49098	H04	BA4657	hypothetical protein	Chromosome (NC_003997)	NP_846872.1	253884
47779	H05	BA5118	hypothetical protein	Chromosome (NC_003997)	NP_847304.1	252902
50460	H06	BA5116	hypothetical protein	Chromosome (NC_003997)	NP_847302.2	252925
50793	H07	BA5152	UTP-glucose-1-phosphate uridylyltransferase	Chromosome (NC_003997)	NP_847338.1	252954
48801	H08	BA3353	multidrug resistance protein, Smr family	Chromosome (NC_003997)	NP_845639.1	252975
51743	H09	BA3623	molybdopterin biosynthesis protein MoeA	Chromosome (NC_003997)	NP_845891.1	253257
48558	H10	BA3077	hypothetical protein	Chromosome (NC_003997)	NP_845407.1	253279
47977	H11	BA1178	hypothetical protein	Chromosome (NC_003997)	NP_843656.1	253299

Table 45: *Bacillus anthracis* Gateway® Clone, Plate 45 (QMG003144), NR-19769¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50278	A02	BA3501	lysozyme, putative	Chromosome (NC_003997)	NP_845781.1	253347
49449	A03	BA5323	spermidine N1-acetyltransferase	Chromosome (NC_003997)	NP_847499.1	253375
49244	A04	BA5332	SsrA-binding protein	Chromosome (NC_003997)	NP_847508.1	253393
48725	A05	BA3457	hypothetical protein	Chromosome (NC_003997)	NP_845740.1	253419
48211	A06	BA5403	hypothetical protein	Chromosome (NC_003997)	NP_847576.1	253585
50030	A07	BA2605	lipoprotein, putative	Chromosome (NC_003997)	NP_844967.1	253610
50276	A08	BA2570	hypothetical protein	Chromosome (NC_003997)	NP_844937.1	253631
50779	A09	BA0822	glucokinase regulator-related protein	Chromosome (NC_003997)	NP_843340.1	253084
50339	A10	BA1446	cbiX domain protein	Chromosome (NC_003997)	NP_843902.1	253112
47845	A11	BA3759	hypothetical protein	Chromosome (NC_003997)	NP_846018.1	253133
48655	A12	BA3779	hypothetical protein	Chromosome (NC_003997)	NP_846035.1	253154
47623	B01	BA1107	hypothetical protein	Chromosome (NC_003997)	NP_843596.1	253325
48232	B02	BA3527	hypothetical protein	Chromosome (NC_003997)	NP_845805.1	253348
47780	B03	BA5343	hypothetical protein	Chromosome (NC_003997)	NP_847517.1	253377
51515	B04	BA5299	nucleoside transporter, NupC family	Chromosome (NC_003997)	NP_847476.1	253395
50948	B05	BA2936	membrane protein, putative	Chromosome (NC_003997)	NP_845272.1	253421
50955	B06	BA0752	fructokinase	Chromosome (NC_003997)	NP_843276.1	253588
50467	B07	BA4968	glucose 1-dehydrogenase	Chromosome (NC_003997)	NP_847163.1	253611
48279	B08	BA0698	hypothetical protein	Chromosome (NC_003997)	NP_843225.1	253632
50844	B09	BA5075	bmrU protein	Chromosome (NC_003997)	NP_847265.1	253087
48282	B10	BA1414	hypothetical protein	Chromosome (NC_003997)	NP_843871.1	253115
50349	B11	BA1430	imidazoleglycerol phosphate synthase, cyclase subunit	Chromosome (NC_003997)	NP_843887.1	253135
51375	B12	BA3745	transposase, IS605 family	Chromosome (NC_003997)	NP_846006.1	253156
47773	C01	BA3532	hypothetical protein	Chromosome (NC_003997)	NP_845809.1	253333

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50826	C02	BA1152	fumarylacetoacetate hydrolase family protein	Chromosome (NC_003997)	NP_843634.1	253353
48584	C03	BA3004	hypothetical protein	Chromosome (NC_003997)	NP_845336.1	253380
51528	C04	BA2999	hypothetical protein	Chromosome (NC_003997)	NP_845331.1	253398
51164	C05	BA3463	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_845745.1	253425
48708	C06	BA2123	hypothetical protein	Chromosome (NC_003997)	NP_844521.1	253589
50691	C07	BA4949	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_847146.1	253614
48644	C08	BA4931	hypothetical protein	Chromosome (NC_003997)	NP_847129.1	253635
49186	C09	BA0831	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843348.1	253091
50429	C10	BA1445	uroporphyrin-III C-methyltransferase	Chromosome (NC_003997)	NP_843901.1	253118
48181	C11	BA3717	hypothetical protein	Chromosome (NC_003997)	NP_845980.1	253139
49357	C12	BA1398	transcriptional regulator, Bla/Mec family	Chromosome (NC_003997)	NP_843855.1	253162
47878	D01	BA1106	hypothetical protein	Chromosome (NC_003997)	NP_843595.1	253336
50860	D02	BA1126	transporter, EamA family	Chromosome (NC_003997)	NP_843612.1	253354
48638	D03	BA2987	hypothetical protein	Chromosome (NC_003997)	NP_845320.1	253382
50294	D04	BA5335	carboxylesterase	Chromosome (NC_003997)	NP_847511.1	253403
49560	D05	BA5408	FMN reductase, NADPH-dependent	Chromosome (NC_003997)	NP_847581.1	253575
49202	D06	BA2116	hypothetical protein	Chromosome (NC_003997)	NP_844514.1	253596
51386	D07	BA5433	UDP-N-acetylglucosamine 2-epimerase	Chromosome (NC_003997)	NP_847601.1	253618
49435	D08	BA4932	hypothetical protein	Chromosome (NC_003997)	NP_847130.1	253636
51875	D09	BA0818	amino acid permease family protein	Chromosome (NC_003997)	NP_843336.1	253092
50445	D10	BA3814	prophage LambdaBa01, C-5 cytosine-specific DNA methylase family	Chromosome (NC_003997)	NP_846066.1	253119
50422	D11	BA3749	phosphonate ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846010.1	253141
47753	D12	BA3723	hypothetical protein	Chromosome (NC_003997)	NP_845986.1	253165
49970	E01	BA5390	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_847563.1	253338
51227	E02	BA3534	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_845811.1	253361
48738	E03	BA2972	hypothetical protein	Chromosome (NC_003997)	NP_845306.1	253384
49816	E04	BA3395	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845681.1	253408
50170	E05	BA2147	ScdA protein	Chromosome (NC_003997)	NP_844545.1	253577
49234	E06	BA2617	hypothetical protein	Chromosome (NC_003997)	NP_844979.1	253597
51461	E07	BA0724	peptidase, M23/M37 family	Chromosome (NC_003997)	NP_843249.1	253622
49869	E08	BA2599	membrane protein, putative	Chromosome (NC_003997)	NP_844963.1	253641
51914	E09	BA2709	hypothetical protein	Chromosome (NC_003997)	NP_845063.1	253093
50932	E10	BA3845	hypothetical protein	Chromosome (NC_003997)	NP_846096.1	253121
50428	E11	BA1377	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843835.1	253143
49502	E12	BA4653	bypass-of-forespore protein C, putative	Chromosome (NC_003997)	NP_846870.1	253983
47998	F01	BA1137	hypothetical protein	Chromosome (NC_003997)	NP_843621.1	253341
48372	F02	BA3018	hypothetical protein	Chromosome (NC_003997)	NP_845349.1	253368
48941	F03	BA5316	SET domain protein	Chromosome (NC_003997)	NP_847492.1	253388

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47733	F04	BA2943	hypothetical protein	Chromosome (NC_003997)	NP_845279.1	253409
48114	F05	BA2623	hypothetical protein	Chromosome (NC_003997)	NP_844985.1	253579
49327	F06	BA4975	molybdenum cofactor biosynthesis protein MoaC	Chromosome (NC_003997)	NP_847170.1	253602
51475	F07	BA0711	spore germination protein GerLC	Chromosome (NC_003997)	NP_843237.1	253623
47887	F08	BA2535	hypothetical protein	Chromosome (NC_003997)	NP_844903.1	253643
49892	F09	BA3816	hypothetical protein	Chromosome (NC_003997)	NP_846068.1	253101
49452	F10	BA1466	hypothetical protein	Chromosome (NC_003997)	NP_843921.1	253125
50497	F11	BA1375	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_843833.1	253145
51866	F12	BA0068	para-aminobenzoate synthase, component I	Chromosome (NC_003997)	NP_842637.1	253984
50153	G01	BA1119	DNA-binding response regulator	Chromosome (NC_003997)	NP_843605.1	253343
51522	G02	BA5367	phosphoglycerate kinase	Chromosome (NC_003997)	NP_847541.1	253370
49111	G03	BA2961	hypothetical protein	Chromosome (NC_003997)	NP_845296.1	253389
48288	G04	BA3477	hypothetical protein	Chromosome (NC_003997)	NP_845758.1	253414
48156	G05	BA2624	hypothetical protein	Chromosome (NC_003997)	NP_844986.1	253580
49346	G06	BA2155	hypothetical protein	Chromosome (NC_003997)	NP_844553.1	253604
51601	G07	BA2073	membrane protein, putative	Chromosome (NC_003997)	NP_844473.1	253626
50530	G08	BA4893	hypothetical protein	Chromosome (NC_003997)	NP_847093.1	253644
47914	G09	BA3831	hypothetical protein	Chromosome (NC_003997)	NP_846083.1	253104
49663	G10	BA3815	hypothetical protein	Chromosome (NC_003997)	NP_846067.1	253127
50931	G11	BA3767	prophage LambdaBa01, N-acetylmuramoyl-L-alanine amidase, family	Chromosome (NC_003997)	NP_846025.1	253150
51993	G12	BA2280	glycine betaine/L-proline ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_844666.1	253988
50264	H01	BA1088	hypothetical protein	Chromosome (NC_003997)	NP_843581.1	253344
51749	H02	BA5358	hypothetical protein	Chromosome (NC_003997)	NP_847532.1	253371
51286	H03	BA5328	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_847504.1	253391
50498	H04	BA3440	oxidoreductase, short chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_845724.1	253416
50539	H05	BA5511	techoic acid ABC transporter, efflux permease, putative	Chromosome (NC_003997)	NP_847670.1	253582
47688	H06	BA2595	hypothetical protein	Chromosome (NC_003997)	NP_844960.1	253608
51964	H07	BA2072	amidase family protein	Chromosome (NC_003997)	NP_844472.1	253628
51178	H08	BA2559	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_844927.1	253648
48067	H09	BA1464	hypothetical protein	Chromosome (NC_003997)	NP_843919.1	253108
47749	H10	BA1401	hypothetical protein	Chromosome (NC_003997)	NP_843858.1	253130
51048	H11	BA1434	D-isomer specific 2-hydroxyacid dehydrogenase family protein	Chromosome (NC_003997)	NP_843890.1	253151

Table 46: *Bacillus anthracis* Gateway® Clone, Plate 46 (QMG003145), NR-19770¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51368	A02	BA0362	hypothetical protein	Chromosome (NC_003997)	NP_842907.1	254018
49804	A03	BA1727	hypothetical protein	Chromosome (NC_003997)	NP_844162.1	254037
48678	A04	BA1728	hypothetical protein	Chromosome (NC_003997)	NP_844163.1	254059
50346	A05	BA5098	hypothetical protein	Chromosome (NC_003997)	NP_847285.1	253011
50124	A06	BA0873	hypothetical protein	Chromosome (NC_003997)	NP_843386.1	253042
49552	A07	BA2721	hypothetical protein	Chromosome (NC_003997)	NP_845075.1	253064
48165	A08	BA4189	hypothetical protein	Chromosome (NC_003997)	NP_846425.1	253918
50078	A09	BA1780	prolipoprotein diacylglyceryl transferase family protein	Chromosome (NC_003997)	NP_844206.1	253937
47976	A10	BA0422	hypothetical protein	Chromosome (NC_003997)	NP_842965.1	253963
48778	A11	BA0250	holo-(acyl-carrier-protein) synthase	Chromosome (NC_003997)	NP_842803.1	254102
48610	A12	BA4460	hypothetical protein	Chromosome (NC_003997)	NP_846686.1	254122
49971	B01	BA0058	membrane protein, putative	Chromosome (NC_003997)	NP_842627.1	253994
49333	B02	BA2258	lipoprotein, putative	Chromosome (NC_003997)	NP_844648.1	254020
47951	B03	BA4122	hypothetical protein	Chromosome (NC_003997)	NP_846361.1	254040
48805	B04	BA4096	prophage LambdaBa02, HNH endonuclease family protein	Chromosome (NC_003997)	NP_846335.1	254061
47836	B05	BA5594	PapR	Chromosome (NC_003997)	NP_847750.1	253013
50269	B06	BA5599	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_847754.1	253044
49826	B07	BA5565	hypothetical protein	Chromosome (NC_003997)	NP_847722.1	253066
50945	B08	BA1793	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844218.1	253920
47958	B09	BA0095	preprotein translocase, SecE subunit	Chromosome (NC_003997)	NP_842663.1	253939
50822	B10	BA4640	cation efflux family protein	Chromosome (NC_003997)	NP_846857.1	253965
51239	B11	BA0296	Phosphoribosylformyl-glycinamide cyclo-ligase	Chromosome (NC_003997)	NP_842846.1	254104
48667	B12	BA3984	hypothetical protein	Chromosome (NC_003997)	NP_846226.1	254124
49958	C01	BA4605	hypothetical protein	Chromosome (NC_003997)	NP_846824.1	253996
49578	C02	BA0013	hypothetical protein	Chromosome (NC_003997)	NP_842584.1	254022
48026	C03	BA4132	hypothetical protein	Chromosome (NC_003997)	NP_846371.1	254042
51346	C04	BA5100	hypothetical protein	Chromosome (NC_003997)	NP_847287.1	252999
48360	C05	BA2760	hypothetical protein	Chromosome (NC_003997)	NP_845109.1	253018
47710	C06	BA5556	hypothetical protein	Chromosome (NC_003997)	NP_847714.1	253046
47663	C07	BA0851	hypothetical protein	Chromosome (NC_003997)	NP_843366.1	253076
48176	C08	BA1841	hypothetical protein	Chromosome (NC_003997)	NP_844260.1	253922
50620	C09	BA1738	hypothetical protein	Chromosome (NC_003997)	NP_844173.1	253945
50981	C10	BA0411	transporter, EamA family	Chromosome (NC_003997)	NP_842955.1	253966
51361	C11	BA4484	hypothetical protein	Chromosome (NC_003997)	NP_846709.1	254106
51355	C12	BA4502	gcpE protein	Chromosome (NC_003997)	NP_846727.1	254125
47956	D01	BA0025	csfB protein, putative	Chromosome (NC_003997)	NP_842595.1	253999
49927	D02	BA4608	uridine kinase	Chromosome (NC_003997)	NP_846827.1	254027
48094	D03	BA4124	prophage LambdaBa02, DNA-binding protein, putative	Chromosome (NC_003997)	NP_846363.1	254044
49661	D04	BA3374	membrane protein, putative	Chromosome (NC_003997)	NP_845660.1	253001
49361	D05	BA2766	lipoprotein, putative	Chromosome (NC_003997)	NP_845115.1	253028
48315	D06	BA5574	ribosomal protein L31	Chromosome (NC_003997)	NP_847731.1	253049

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49583	D07	BA5074	hypoxanthine phosphoribosyltransferase	Chromosome (NC_003997)	NP_847264.1	253079
51292	D08	BA1787	membrane protein, putative	Chromosome (NC_003997)	NP_844213.1	253923
48409	D09	BA4171	hypothetical protein	Chromosome (NC_003997)	NP_846409.1	253946
51290	D10	BA4618	membrane protein, putative	Chromosome (NC_003997)	NP_846837.1	253969
49198	D11	BA0257	hypothetical protein	Chromosome (NC_003997)	NP_842810.1	254108
48141	D12	BA1610	hypothetical protein	Chromosome (NC_003997)	NP_844058.1	254129
50452	E01	BA0363	hypothetical protein	Chromosome (NC_003997)	NP_842908.1	254003
50127	E02	BA4602	MTA/SAH nucleosidase	Chromosome (NC_003997)	NP_846821.1	254028
48118	E03	BA4113	hypothetical protein	Chromosome (NC_003997)	NP_846352.1	254047
51755	E04	BA5674	membrane protein, putative	Chromosome (NC_003997)	NP_847821.1	253004
49479	E05	BA5582	hypothetical protein	Chromosome (NC_003997)	NP_847738.1	253029
50729	E06	BA5570	stage II sporulation protein R, putative	Chromosome (NC_003997)	NP_847727.1	253050
48253	E07	BA5046	hypothetical protein	Chromosome (NC_003997)	NP_847237.1	253082
49115	E08	BA4146	hypothetical protein	Chromosome (NC_003997)	NP_846384.1	253925
48540	E09	BA4165	hypothetical protein	Chromosome (NC_003997)	NP_846403.1	253951
51397	E10	BA0427	prophage LambdaBa04, site-specific recombinase, phage integrase	Chromosome (NC_003997)	NP_842969.1	253970
49459	E11	BA4483	transcriptional regulator, ArsR family	Chromosome (NC_003997)	NP_846708.1	254110
48175	E12	BA1594	hypothetical protein	Chromosome (NC_003997)	NP_844043.1	254132
48411	F01	BA4617	hypothetical protein	Chromosome (NC_003997)	NP_846836.1	254004
49123	F02	BA2225	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844617.1	254031
48193	F03	BA2209	hypothetical protein	Chromosome (NC_003997)	NP_844601.1	254050
50188	F04	BA3383	lipoprotein, putative	Chromosome (NC_003997)	NP_845669.1	253005
49539	F05	BA2764	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845113.1	253031
48833	F06	BA5581	stage 0 sporulation protein F	Chromosome (NC_003997)	NP_847737.1	253052
49096	F07	BA4220	competence-specific nuclease	Chromosome (NC_003997)	NP_846455.1	253905
51436	F08	BA1795	membrane protein, putative	Chromosome (NC_003997)	NP_844220.1	253926
50743	F09	BA1763	hypothetical protein	Chromosome (NC_003997)	NP_844192.1	253952
51431	F10	BA4647	queuine tRNA-ribosyltransferase	Chromosome (NC_003997)	NP_846864.1	253973
50406	F11	BA4505	cation ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_846730.1	254113
48689	F12	BA1583	hypothetical protein	Chromosome (NC_003997)	NP_844032.1	254133
48575	G01	BA0395	hypothetical protein	Chromosome (NC_003997)	NP_842939.1	254007
51057	G02	BA2247	hypothetical protein	Chromosome (NC_003997)	NP_844638.1	254033
48238	G03	BA4125	prophage LambdaBa02, DNA-binding protein	Chromosome (NC_003997)	NP_846364.1	254052
50226	G04	BA3362	membrane protein, putative	Chromosome (NC_003997)	NP_845648.1	253007
51533	G05	BA0888	hypothetical protein	Chromosome (NC_003997)	NP_843399.1	253033
48919	G06	BA5515	hypothetical protein	Chromosome (NC_003997)	NP_847674.1	253054
47848	G07	BA4199	hypothetical protein	Chromosome (NC_003997)	NP_846435.1	253916
51671	G08	BA1799	proton/sodium-glutamate symporter	Chromosome (NC_003997)	NP_844223.1	253932
49421	G09	BA0092	hypothetical protein	Chromosome (NC_003997)	NP_842660.1	253956
51674	G10	BA4633	histidyl-tRNA synthetase	Chromosome (NC_003997)	NP_846850.1	253978

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
47764	G11	BA4452	hypothetical protein	Chromosome (NC_003997)	NP_846680.1	254115
51360	G12	BA3953	N utilization substance protein A	Chromosome (NC_003997)	NP_846196.1	254137
48835	H01	BA0386	hypothetical protein	Chromosome (NC_003997)	NP_842930.1	254010
49628	H02	BA0345	alkyl hydroperoxide reductase, subunit C	Chromosome (NC_003997)	NP_842892.1	254034
51518	H03	BA2210	conserved hypothetical protein TIGR00045	Chromosome (NC_003997)	NP_844602.1	254057
52035	H04	BA5694	osmoprotectant transporter, BCCT family	Chromosome (NC_003997)	NP_847840.1	253010
50050	H05	BA5608	hypothetical protein	Chromosome (NC_003997)	NP_847760.1	253040
48957	H06	BA5521	stage III sporulation protein D	Chromosome (NC_003997)	NP_847680.1	253057
50942	H07	BA4156	cytochrome aa3 controlling protein	Chromosome (NC_003997)	NP_846394.1	253917
51780	H08	BA4161	PhoH family protein	Chromosome (NC_003997)	NP_846399.2	253935
49639	H09	BA1753	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_844183.1	253958
51841	H10	BA0048	UDP-N-acetylglucosamine pyrophosphorylase	Chromosome (NC_003997)	NP_842617.1	253980
48098	H11	BA4456	hypothetical protein	Chromosome (NC_003997)	NP_846683.1	254120

Table 47: *Bacillus anthracis* Gateway® Clone, Plate 47 (QMG003146), NR-19771¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51402	A02	BA4983	homoserine O-acetyltransferase, putative	Chromosome (NC_003997)	NP_847177.1	254158
51264	A03	BA2850	mandelate racemase/ muconate lactonizing enzyme family protein	Chromosome (NC_003997)	NP_845194.1	253519
51599	A04	BA2663	hypothetical protein	Chromosome (NC_003997)	NP_845023.1	253548
51563	A05	BA5495	ABC transporter, permease protein	Chromosome (NC_003997)	NP_847655.2	253565
50590	A06	BA1061	lipoprotein, putative	Chromosome (NC_003997)	NP_843557.1	253443
50569	A07	BA5262	hypothetical protein	Chromosome (NC_003997)	NP_847441.1	253470
51598	A08	BA5215	aminotransferase, class V	Chromosome (NC_003997)	NP_847397.1	253500
50966	A09	BA2015	hypothetical protein	Chromosome (NC_003997)	NP_844419.1	255864
51206	A10	BA1574	hypothetical protein	Chromosome (NC_003997)	NP_844024.1	255901
50649	A11	BA0139	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842707.1	254180
49622	A12	BA4350	hypothetical protein	Chromosome (NC_003997)	NP_846582.1	254204
49581	B01	BA3977	signal peptidase I S	Chromosome (NC_003997)	NP_846219.1	254139
51441	B02	BA1558	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_844008.1	254160
49576	B03	BA5708	conserved hypothetical protein TIGR00246	Chromosome (NC_003997)	NP_847854.2	253526
51729	B04	BA5006	hypothetical protein	Chromosome (NC_003997)	NP_847200.1	253550
49138	B05	BA5493	sigma factor, putative	Chromosome (NC_003997)	NP_847653.1	253567
50791	B06	BA3417	TPR domain protein	Chromosome (NC_003997)	NP_845701.2	253448
50669	B07	BA2920	sulfonate ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_845256.1	253474
50666	B08	BA1563	pantoate--beta-alanine ligase	Chromosome (NC_003997)	NP_844013.1	255836

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48295	B09	BA2028	hypothetical protein	Chromosome (NC_003997)	NP_844432.1	255866
48968	B10	BA2033	hypothetical protein	Chromosome (NC_003997)	NP_844436.1	255903
50805	B11	BA0154	arginase	Chromosome (NC_003997)	NP_842720.1	254181
47822	B12	BA3855	hypothetical protein	Chromosome (NC_003997)	NP_846105.1	254208
50150	C01	BA3965	ribosomal protein S2	Chromosome (NC_003997)	NP_846208.1	254143
51468	C02	BA2638	glycosyl transferase, putative	Chromosome (NC_003997)	NP_845000.2	254163
50947	C03	BA2686	hypothetical protein	Chromosome (NC_003997)	NP_845043.1	253532
49513	C04	BA5011	PAP2 family protein	Chromosome (NC_003997)	NP_847205.1	253552
49329	C05	BA5488	hypothetical protein	Chromosome (NC_003997)	NP_847650.1	253568
49004	C06	BA3421	ATP synthase protein I, putative	Chromosome (NC_003997)	NP_845705.1	253451
48572	C07	BA5225	thioredoxin, putative	Chromosome (NC_003997)	NP_847405.1	253476
47648	C08	BA4883	hypothetical protein	Chromosome (NC_003997)	NP_847083.1	255837
51059	C09	BA4052	phospho-N-acetylmuramoyl-pentapeptide-transferase	Chromosome (NC_003997)	NP_846292.1	255871
51430	C10	BA0002	DNA polymerase III, beta subunit	Chromosome (NC_003997)	NP_842574.1	255905
48792	C11	BA0138	ribosomal protein L17	Chromosome (NC_003997)	NP_842706.1	254183
48609	C12	BA3874	hypothetical protein	Chromosome (NC_003997)	NP_846123.1	254213
50474	D01	BA1550	hypothetical protein	Chromosome (NC_003997)	NP_844000.1	254145
51540	D02	BA1559	polyA polymerase	Chromosome (NC_003997)	NP_844009.1	254164
48342	D03	BA5007	hypothetical protein	Chromosome (NC_003997)	NP_847201.1	253534
51820	D04	BA5462	arsenical pump family protein, putative	Chromosome (NC_003997)	NP_847630.1	253555
51786	D05	BA5500	phosphoglycerate transporter family protein	Chromosome (NC_003997)	NP_847660.1	253570
47613	D06	BA2918	hypothetical protein	Chromosome (NC_003997)	NP_845254.1	253459
48996	D07	BA1030	hypothetical protein	Chromosome (NC_003997)	NP_843530.1	253483
50742	D08	BA1624	lacX protein, putative	Chromosome (NC_003997)	NP_844071.1	255840
48690	D09	BA1687	hypothetical protein	Chromosome (NC_003997)	NP_844129.1	255885
49199	D10	BA0662	transcriptional regulator, MarR family	Chromosome (NC_003997)	NP_843191.1	255908
50375	D11	BA0177	lipoprotein, putative	Chromosome (NC_003997)	NP_842741.1	254185
49344	D12	BA1488	hypothetical protein	Chromosome (NC_003997)	NP_843941.1	254215
50768	E01	BA3935	dihydrodipicolinate synthase	Chromosome (NC_003997)	NP_846179.1	254148
51607	E02	BA3936	aspartate kinase, mono-functional class	Chromosome (NC_003997)	NP_846180.1	254166
51358	E03	BA0799	hypothetical protein	Chromosome (NC_003997)	NP_843318.1	253538
49798	E04	BA5013	molybdopterin-guanine dinucleotide biosynthesis protein A, putative	Chromosome (NC_003997)	NP_847207.1	253556
47950	E05	BA3426	hypothetical protein	Chromosome (NC_003997)	NP_845710.1	253433
47720	E06	BA2892	hypothetical protein	Chromosome (NC_003997)	NP_845232.1	253460
52099	E07	BA1027	glycerol-3-phosphate dehydrogenase, aerobic	Chromosome (NC_003997)	NP_843528.1	253485
47837	E08	BA0310	hypothetical protein	Chromosome (NC_003997)	NP_842859.1	255846
48705	E09	BA0947	transcriptional regulator, PadR family	Chromosome (NC_003997)	NP_843452.1	255887
49248	E10	BA2022	spermidine acetyltransferase, putative	Chromosome (NC_003997)	NP_844426.1	255912
47738	E11	BA4344	hypothetical protein	Chromosome (NC_003997)	NP_846576.1	254188

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51124	E12	BA1471	phosphate transporter family protein	Chromosome (NC_003997)	NP_843926.1	254217
50774	F01	BA1553	membrane protein, putative	Chromosome (NC_003997)	NP_844003.1	254151
50536	F02	BA5038	ABC transporter, permease protein	Chromosome (NC_003997)	NP_847230.1	253510
51481	F03	BA2109	ATP-dependent RNA helicase, DEAD/DEAH box family	Chromosome (NC_003997)	NP_844507.1	253544
50082	F04	BA2132	transcriptional regulator, Crp/Fnr family	Chromosome (NC_003997)	NP_844530.1	253559
48077	F05	BA5291	hypothetical protein	Chromosome (NC_003997)	NP_847470.1	253435
50041	F06	BA2904	membrane protein, putative	Chromosome (NC_003997)	NP_845242.1	253462
49411	F07	BA2925	hypothetical protein	Chromosome (NC_003997)	NP_845261.1	253486
48049	F08	BA0972	hypothetical protein	Chromosome (NC_003997)	NP_843475.1	255854
51194	F09	BA2542	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_844910.1	255890
50307	F10	BA4989	vrpB protein	Chromosome (NC_003997)	NP_847183.1	254170
50248	F11	BA4340	dithiobiotin synthetase	Chromosome (NC_003997)	NP_846573.1	254190
49493	F12	BA1492	spore maturation protein	Chromosome (NC_003997)	NP_843945.1	254219
50787	G01	BA0010	pyridoxine biosynthesis protein	Chromosome (NC_003997)	NP_842581.1	254153
50654	G02	BA5712	yycI protein	Chromosome (NC_003997)	NP_847858.1	253515
51561	G03	BA5017	S-adenosylmethionine synthetase	Chromosome (NC_003997)	NP_847211.1	253545
51093	G04	BA2113	quinone oxidoreductase	Chromosome (NC_003997)	NP_844511.2	253563
50373	G05	BA5730	sporulation initiation inhibitor protein Soj	Chromosome (NC_003997)	NP_847875.1	253438
47816	G06	BA2912	hypothetical protein	Chromosome (NC_003997)	NP_845248.1	253464
47936	G07	BA2874	hypothetical protein	Chromosome (NC_003997)	NP_845215.1	253489
48236	G08	BA3934	hypothetical protein	Chromosome (NC_003997)	NP_846178.1	255857
51200	G09	BA3394	protein-tyrosine phosphatase-like protein	Chromosome (NC_003997)	NP_845680.1	255893
48410	G10	BA4442	hypothetical protein	Chromosome (NC_003997)	NP_846670.1	254171
50605	G11	BA0113	ribosomal protein L2	Chromosome (NC_003997)	NP_842681.1	254197
49680	G12	BA3876	phosphoglycerate mutase family protein, putative	Chromosome (NC_003997)	NP_846124.1	254224
51113	H01	BA0762	spore germination protein GerYC	Chromosome (NC_003997)	NP_843285.1	254156
50820	H02	BA2832	dihydrodipicolinate synthase	Chromosome (NC_003997)	NP_845178.1	253516
49334	H03	BA2669	hypothetical protein	Chromosome (NC_003997)	NP_845029.1	253547
51312	H04	BA5445	spermine/spermidine synthase family protein	Chromosome (NC_003997)	NP_847613.1	253564
50511	H05	BA2930	aminoglycoside N3-acetyltransferase	Chromosome (NC_003997)	NP_845266.1	253440
50461	H06	BA5263	3 stage III sporulation protein J/OxaA-like protein	Chromosome (NC_003997)	NP_847442.1	253467
48676	H07	BA0990	anti sigma b factor antagonist RsbV	Chromosome (NC_003997)	NP_843491.1	253497
50969	H08	BA3990	malonyl CoA-acyl carrier protein transacylase	Chromosome (NC_003997)	NP_846232.1	255859
51211	H09	BA3372	hypothetical protein	Chromosome (NC_003997)	NP_845658.1	255897
51616	H10	BA2649	permease, putative	Chromosome (NC_003997)	NP_845011.1	254176
48374	H11	BA3912	stage V sporulation protein S	Chromosome (NC_003997)	NP_846159.1	254201

Table 48: *Bacillus anthracis* Gateway® Clone, Plate 48 (QMG003147), NR-19772¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
48039	A02	BA3361	hypothetical protein	Chromosome (NC_003997)	NP_845647.1	256024
51002	A03	BA5540	NADH dehydrogenase I, C subunit, putative	Chromosome (NC_003997)	NP_847698.1	256066
51913	A04	BA2211	sodium/solute symporter family protein	Chromosome (NC_003997)	NP_844603.1	256218
50916	A05	BA0499	glutaminase A	Chromosome (NC_003997)	NP_843036.1	256259
48882	A06	BA5522	lipoprotein, putative	Chromosome (NC_003997)	NP_847681.1	255943
49612	A07	BA0050	peptidyl-tRNA hydrolase	Chromosome (NC_003997)	NP_842619.1	255973
50219	A08	BA4043	RNA polymerase sigma-29 factor	Chromosome (NC_003997)	NP_846283.1	254072
51972	A09	BA4079	hypothetical protein	Chromosome (NC_003997)	NP_846318.1	254087
51051	A10	BA3709	formiminoglutamase	Chromosome (NC_003997)	NP_845972.1	242018
51838	A11	BA3260	sensor histidine kinase	Chromosome (NC_003997)	NP_845559.1	242047
51364	A12	BA4660	quinolinase synthetase complex, subunit A	Chromosome (NC_003997)	NP_846875.1	256300
50304	B01	BA2816	N-methyl-transferase-related protein	Chromosome (NC_003997)	NP_845163.1	255993
48243	B02	BA5039	hypothetical protein	Chromosome (NC_003997)	NP_847231.1	256031
48661	B03	BA0779	rhodanese-like domain protein	Chromosome (NC_003997)	NP_843301.1	256068
52020	B04	BA4216	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_846451.1	256227
51005	B05	BA1734	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844169.1	256262
49039	B06	BA5537	NADH dehydrogenase I, I subunit	Chromosome (NC_003997)	NP_847695.1	255946
51863	B07	BA2196	hypothetical protein	Chromosome (NC_003997)	NP_844588.1	255975
50455	B08	BA1665	chemotaxis protein methyltransferase CheR	Chromosome (NC_003997)	NP_844111.1	254075
49726	B09	BA4085	prophage LambdaBa02, major tail protein, putative	Chromosome (NC_003997)	NP_846324.1	254091
51055	B10	BA1311	lipoprotein, putative	Chromosome (NC_003997)	NP_843777.1	242020
51870	B11	BA1313	sensor histidine kinase	Chromosome (NC_003997)	NP_843779.1	242049
48346	B12	BA0490	hypothetical protein	Chromosome (NC_003997)	NP_843028.1	256301
47726	C01	BA0917	hypothetical protein	Chromosome (NC_003997)	NP_843424.1	255995
48239	C02	BA4167	hypothetical protein	Chromosome (NC_003997)	NP_846405.1	256032
48681	C03	BA2801	hypothetical protein	Chromosome (NC_003997)	NP_845150.1	256070
52021	C04	BA0508	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_843044.1	256231
52114	C05	BA1698	TPR/glycosyl transferase domain protein	Chromosome (NC_003997)	NP_844138.1	256264
49045	C06	BA1611	hypothetical protein	Chromosome (NC_003997)	NP_844059.1	255950
49760	C07	BA5150	bioY family protein	Chromosome (NC_003997)	NP_847336.1	255977
50555	C08	BA1718	flagellar biosynthetic protein FlhF, putative	Chromosome (NC_003997)	NP_844153.1	254078
50316	C09	BA4522	recombination protein O	Chromosome (NC_003997)	NP_846745.1	254092
51220	C10	BA3275	hypothetical protein	Chromosome (NC_003997)	NP_845571.1	242022
51887	C11	BA3269	iron-sulfur cluster-binding protein	Chromosome (NC_003997)	NP_845567.1	242053
51421	C12	BA2291	sensor histidine kinase	Chromosome (NC_003997)	NP_844676.1	256312
50392	D01	BA0939	membrane protein, putative	Chromosome (NC_003997)	NP_843445.1	256002
48276	D02	BA5531	hypothetical protein	Chromosome (NC_003997)	NP_847689.1	256036
51681	D03	BA2234	hypothetical protein	Chromosome (NC_003997)	NP_844625.1	256198

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52053	D04	BA2370	2,3-dihydroxybenzoate-AMP ligase	Chromosome (NC_003997)	NP_844752.1	256239
52136	D05	BA4606	penicillin-binding protein	Chromosome (NC_003997)	NP_846825.1	256265
49110	D06	BA2755	mutT/nudix family protein	Chromosome (NC_003997)	NP_845105.1	255955
50033	D07	BA5182	hypothetical protein	Chromosome (NC_003997)	NP_847365.1	255982
50633	D08	BA1721	hypothetical protein	Chromosome (NC_003997)	NP_844156.1	254080
50328	D09	BA0304	pcrB family protein	Chromosome (NC_003997)	NP_842853.2	254095
51305	D10	BA3720	hypothetical protein	Chromosome (NC_003997)	NP_845983.1	242024
51983	D11	BA1351	sensor histidine kinase KinD	Chromosome (NC_003997)	NP_843811.1	242057
51622	D12	BA4135	hypothetical protein	Chromosome (NC_003997)	NP_846374.1	256315
50464	E01	BA1707	transglycosylase, SLT family	Chromosome (NC_003997)	NP_844144.1	256007
50617	E02	BA0971	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_843474.1	256039
49936	E03	BA2309	PAP2 family protein	Chromosome (NC_003997)	NP_844694.1	256199
50790	E04	BA2371	isochorismatase	Chromosome (NC_003997)	NP_844753.1	256242
51070	E05	BA4183	pyruvate dehydrogenase complex E1 component, beta subunit	Chromosome (NC_003997)	NP_846420.1	256270
51698	E06	BA2753	kynureninase	Chromosome (NC_003997)	NP_845103.1	255958
50221	E07	BA5553	ATP synthase F0, A subunit	Chromosome (NC_003997)	NP_847711.1	255984
48619	E08	BA1711	hypothetical protein	Chromosome (NC_003997)	NP_844146.1	254081
50854	E09	BA4524	GTP-binding protein Era	Chromosome (NC_003997)	NP_846747.1	254096
51315	E10	BA1331	poly(R)-hydroxyalkanoic acid synthase, class III, PhaC subunit	Chromosome (NC_003997)	NP_843796.1	242026
52108	E11	BA1353	oligoendopeptidase F, putative	Chromosome (NC_003997)	NP_843813.1	242061
51529	E12	BA4091	prophage LambdaBa02, major capsid protein, putative	Chromosome (NC_003997)	NP_846330.1	256320
47915	F01	BA5063	hypothetical protein	Chromosome (NC_003997)	NP_847254.1	256008
48303	F02	BA0859	hypothetical protein	Chromosome (NC_003997)	NP_843372.1	256041
51727	F03	BA4228	maltosaccharide ABC transporter, permease protein	Chromosome (NC_003997)	NP_846463.1	256202
52063	F04	BA0403	hypothetical protein	Chromosome (NC_003997)	NP_842947.1	256243
48761	F05	BA0957	hypothetical protein	Chromosome (NC_003997)	NP_843462.1	255926
51708	F06	BA5578	UDP-N-acetylglucosamine 1-carboxyvinyltransferase 2	Chromosome (NC_003997)	NP_847735.1	255962
52089	F07	BA2836	sensory box sigma-54 dependent DNA-binding response regulator	Chromosome (NC_003997)	NP_845182.1	255985
51334	F08	BA4049	UDP-N-acetylglucosamine--N-acetylmuramyl-(pentapeptide) pyrophos	Chromosome (NC_003997)	NP_846289.1	254083
48585	F09	BA4473	hypothetical protein	Chromosome (NC_003997)	NP_846698.1	254099
51336	F10	BA1341	aminotransferase, class V	Chromosome (NC_003997)	NP_843804.1	242028
52132	F11	BA3741	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_846002.1	242065
48670	F12	BA4260	hypothetical protein	Chromosome (NC_003997)	NP_846495.1	256322
47953	G01	BA5140	hypothetical protein	Chromosome (NC_003997)	NP_847326.1	256012
50750	G02	BA5056	membrane protein, putative	Chromosome (NC_003997)	NP_847247.1	256059
50280	G03	BA4715	ribonuclease PH	Chromosome (NC_003997)	NP_846927.1	256213
50797	G04	BA2310	cation efflux family protein	Chromosome (NC_003997)	NP_844695.1	256245
51238	G05	BA5055	hypothetical protein	Chromosome (NC_003997)	NP_847246.1	255933

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49304	G06	BA0946	hypothetical protein	Chromosome (NC_003997)	NP_843451.1	255965
49265	G07	BA2194	hypothetical protein	Chromosome (NC_003997)	NP_844586.1	254068
51808	G08	BA1671	flagellar hook-associated FliD, putative	Chromosome (NC_003997)	NP_844116.1	254084
50852	G09	BA3729	als operon regulatory protein AlsR, putative	Chromosome (NC_003997)	NP_845992.1	242014
51576	G10	BA1356	sporulation kinase B	Chromosome (NC_003997)	NP_843816.1	242035
51234	G11	BA2271	hypothetical protein	Chromosome (NC_003997)	NP_844658.1	256287
51553	G12	BA4203	EAL-domain protein	Chromosome (NC_003997)	NP_846439.1	256327
47986	H01	BA2722	hypothetical protein	Chromosome (NC_003997)	NP_845076.1	256020
50888	H02	BA2736	transporter, EamA family	Chromosome (NC_003997)	NP_845086.1	256063
51852	H03	BA1767	fumarate hydratase, class II	Chromosome (NC_003997)	NP_844195.1	256215
52094	H04	BA4190	hypothetical protein	Chromosome (NC_003997)	NP_846426.1	256252
48826	H05	BA2719	hypothetical protein	Chromosome (NC_003997)	NP_845073.1	255934
49589	H06	BA1582	hypothetical protein	Chromosome (NC_003997)	NP_844031.1	255971
50160	H07	BA4073	prophage LambdaBa02, N-acetylmuramoyl-L-alanine amidase, family	Chromosome (NC_003997)	NP_846312.1	254071
49188	H08	BA1717	hypothetical protein	Chromosome (NC_003997)	NP_844152.1	254085
51040	H09	BA1372	ribonucleoside-diphosphate reductase, beta subunit	Chromosome (NC_003997)	NP_843830.1	242016
51811	H10	BA3267	major facilitator family transporter	Chromosome (NC_003997)	NP_845565.1	242045
51363	H11	BA4562	GTPase family protein	Chromosome (NC_003997)	NP_846784.1	256297

Table 49: *Bacillus anthracis* Gateway® Clone, Plate 49 (QMG003148), NR-19773¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51511	A02	BA4067	prophage LambdaBa02, FtsK/SpoIIIE family protein	Chromosome (NC_003997)	NP_846306.1	255759
50143	A03	BA0271	DNA-binding response regulator	Chromosome (NC_003997)	NP_842823.1	255794
51960	A04	BA0708	sodium/solute symporter family protein	Chromosome (NC_003997)	NP_843234.1	245523
51666	A05	BA2644	sporulation kinase B	Chromosome (NC_003997)	NP_845006.1	255691
50453	A06	BA0424	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_842967.1	246957
52205	A07	BA0036	methionyl-tRNA synthetase	Chromosome (NC_003997)	NP_842605.1	247048
52160	A08	BA4479	homocysteine S-methyltransferase domain protein/methylenetetrahydrofolate	Chromosome (NC_003997)	NP_846704.1	247401
52168	A09	BA3663	anaerobic ribonucleoside-triphosphate reductase, putative	Chromosome (NC_003997)	NP_845927.1	241292
52125	A10	BA1125	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_843611.1	248080
52082	A11	BA3364	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845650.1	240763
52129	A12	BA0379	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_842923.1	246779
51594	B01	BA2274	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_844660.1	256333

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49536	B02	BA0945	hypothetical protein	Chromosome (NC_003997)	NP_843450.1	255761
52010	B03	BA3702	sporulation kinase A	Chromosome (NC_003997)	NP_845965.1	255804
52024	B04	BA0692	hypothetical protein	Chromosome (NC_003997)	NP_843219.1	245525
48063	B05	BA0704	amino acid permease domain protein	Chromosome (NC_003997)	NP_843231.1	255704
50469	B06	BA0065	transcriptional activator, putative, Baf family	Chromosome (NC_003997)	NP_842634.1	246959
51167	B07	BA0251	lipoprotein, putative	Chromosome (NC_003997)	NP_842804.1	247354
52185	B08	BA0262	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842815.1	247403
52196	B09	BA1267	hypothetical protein	Chromosome (NC_003997)	NP_843739.1	241295
52134	B10	BA3032	adenine deaminase, putative	Chromosome (NC_003997)	NP_845363.1	248082
52143	B11	BA5692	sensor histidine kinase LytS	Chromosome (NC_003997)	NP_847838.1	240765
52209	B12	BA2238	penicillin-binding protein 3	Chromosome (NC_003997)	NP_844629.1	246782
49182	C01	BA4143	ComK regulator	Chromosome (NC_003997)	NP_846381.1	256335
51659	C02	BA3958	membrane-associated zinc metalloprotease, putative	Chromosome (NC_003997)	NP_846201.1	255767
50335	C03	BA4001	protein phosphatase 2C, family protein	Chromosome (NC_003997)	NP_846243.1	255807
52105	C04	BA2583	hypothetical protein	Chromosome (NC_003997)	NP_844950.1	245527
51999	C05	BA5479	glycine betaine transporter	Chromosome (NC_003997)	NP_847642.1	255714
51912	C06	BA0062	hypothetical protein	Chromosome (NC_003997)	NP_842631.1	247025
51683	C07	BA4498	membrane protein, putative	Chromosome (NC_003997)	NP_846723.1	247380
51409	C08	BA3707	NADH-dependent flavin oxidoreductase, Oye family	Chromosome (NC_003997)	NP_845970.1	241259
52201	C09	BA3657	DNA topoisomerase IV, B subunit	Chromosome (NC_003997)	NP_845922.1	241297
52176	C10	BA1079	membrane protein, putative	Chromosome (NC_003997)	NP_843572.1	248084
52148	C11	BA3367	LPXTG-motif cell wall anchor domain protein	Chromosome (NC_003997)	NP_845653.1	240767
51794	C12	BA2747	hypothetical protein	Chromosome (NC_003997)	NP_845097.1	240831
51604	D01	BA2277	permease, putative	Chromosome (NC_003997)	NP_844663.1	256341
49729	D02	BA0297	phosphoribosylglycinamide formyltransferase	Chromosome (NC_003997)	NP_842847.1	255773
50645	D03	BA4359	pyrroline-5-carboxylate reductase	Chromosome (NC_003997)	NP_846590.1	255830
52120	D04	BA4915	acetyl-CoA synthetase	Chromosome (NC_003997)	NP_847113.1	245529
48170	D05	BA0756	hypothetical protein	Chromosome (NC_003997)	NP_843280.1	255716
52029	D06	BA4643	stage V sporulation protein B	Chromosome (NC_003997)	NP_846860.1	247033
51989	D07	BA0272	sensor histidine kinase	Chromosome (NC_003997)	NP_842824.1	247390
51696	D08	BA1286	D-alanyl-D-alanine carboxypeptidase family protein	Chromosome (NC_003997)	NP_843757.1	241268
50856	D09	BA5363	prophage LambdaBa03, site-specific recombinase, phage integrase	Chromosome (NC_003997)	NP_847537.1	248017
50664	D10	BA5635	lipoate-protein ligase A, putative	Chromosome (NC_003997)	NP_847785.1	240687
50760	D11	BA2256	D-amino acid aminotransferase	Chromosome (NC_003997)	NP_844646.1	246723
51947	D12	BA0890	alginate O-acetyltransferase, putative	Chromosome (NC_003997)	NP_843401.1	240837
49434	E01	BA4638	adenine phosphoribosyl-transferase	Chromosome (NC_003997)	NP_846855.1	256344

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
49788	E02	BA1573	recombination protein U	Chromosome (NC_003997)	NP_844023.1	255779
50125	E03	BA2561	DNA-binding response regulator	Chromosome (NC_003997)	NP_844929.1	245451
52159	E04	BA0699	sodium/hydrogen exchanger family protein/TrkA domain protein	Chromosome (NC_003997)	NP_843226.1	245533
52026	E05	BA5484	membrane protein, putative	Chromosome (NC_003997)	NP_847646.1	255717
52145	E06	BA4632	aspartyl-tRNA synthetase	Chromosome (NC_003997)	NP_846849.1	247038
52012	E07	BA0298	Phosphoribosylaminoimidazole-carboxamide formyltransferase/IMP cyclohydrolase	Chromosome (NC_003997)	NP_842848.1	247392
52009	E08	BA3695	S-layer protein, putative	Chromosome (NC_003997)	NP_845958.1	241280
51984	E09	BA3022	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_845353.1	248070
50894	E10	BA5650	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847798.1	240699
51193	E11	BA2268	membrane protein, putative	Chromosome (NC_003997)	NP_844656.1	246739
52049	E12	BA5583	CTP synthase	Chromosome (NC_003997)	NP_847739.1	240847
49550	F01	BA1781	DNA-binding protein	Chromosome (NC_003997)	NP_844207.1	256348
49838	F02	BA1626	hypothetical protein	Chromosome (NC_003997)	NP_844073.3	255783
50172	F03	BA2597	DNA-binding response regulator	Chromosome (NC_003997)	NP_844962.1	245455
52189	F04	BA0702	quinol oxidase, subunit I	Chromosome (NC_003997)	NP_843229.1	245535
49428	F05	BA2646	hypothetical protein	Chromosome (NC_003997)	NP_845008.1	255727
52156	F06	BA2283	hypothetical protein	Chromosome (NC_003997)	NP_844669.1	247040
52014	F07	BA0268	GMP synthase	Chromosome (NC_003997)	NP_842821.1	247394
52016	F08	BA1266	hypothetical protein	Chromosome (NC_003997)	NP_843738.1	241284
51994	F09	BA5388	TPR domain protein	Chromosome (NC_003997)	NP_847561.1	248072
51036	F10	BA5687	peptide methionine sulfoxide reductase	Chromosome (NC_003997)	NP_847833.1	240701
51313	F11	BA0366	fatty acid desaturase	Chromosome (NC_003997)	NP_842911.1	246746
52095	F12	BA5611	arginyl-tRNA synthetase	Chromosome (NC_003997)	NP_847763.1	240849
49928	G01	BA4721	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_846932.1	256352
51854	G02	BA4879	argininosuccinate lyase	Chromosome (NC_003997)	NP_847080.1	255787
51449	G03	BA0721	hypothetical protein	Chromosome (NC_003997)	NP_843246.1	245494
50976	G04	BA2581	hypothetical protein	Chromosome (NC_003997)	NP_844948.1	255677
49746	G05	BA4922	ankyrin repeat domain protein	Chromosome (NC_003997)	NP_847120.1	255737
52165	G06	BA2284	hypothetical protein	Chromosome (NC_003997)	NP_844670.1	247042
52023	G07	BA0309	delta-1-pyrroline-5-carboxylate dehydrogenase, putative	Chromosome (NC_003997)	NP_842858.1	247396
52032	G08	BA3706	hypothetical protein	Chromosome (NC_003997)	NP_845969.1	241286
51996	G09	BA3026	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_845357.1	248074
51917	G10	BA3369	transporter, putative	Chromosome (NC_003997)	NP_845655.1	240753
51454	G11	BA2275	hypothetical protein	Chromosome (NC_003997)	NP_844661.1	246752
52166	G12	BA2761	acetoin operon transcriptional activator, putative	Chromosome (NC_003997)	NP_845110.1	240853
51669	H01	BA0340	transcriptional regulator domain protein	Chromosome (NC_003997)	NP_842887.1	256353
49941	H02	BA3997	hypothetical protein	Chromosome (NC_003997)	NP_846239.1	255791
51934	H03	BA2575	penicillin-binding protein, putative	Chromosome (NC_003997)	NP_844942.1	245519

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51042	H04	BA2546	hypothetical protein	Chromosome (NC_003997)	NP_844914.1	255682
50282	H05	BA5436	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_847604.1	255753
52181	H06	BA0064	cell division protein FtsH	Chromosome (NC_003997)	NP_842633.1	247044
52152	H07	BA4516	DNA primase	Chromosome (NC_003997)	NP_846740.1	247399
52103	H08	BA3645	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_845912.1	241290
52036	H09	BA5356	prophage LambdaBa03, terminase, large subunit, putative	Chromosome (NC_003997)	NP_847530.1	248078
51936	H10	BA5703	ATP-dependent RNA helicase, DEAD/DEAH box family	Chromosome (NC_003997)	NP_847849.1	240755
51898	H11	BA0026	lysine decarboxylase	Chromosome (NC_003997)	NP_842596.1	246770

Table 50: *Bacillus anthracis* Gateway® Clone, Plate 50 (QMG003149), NR-19774¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51269	A02	BA1956	sensor histidine kinase	Chromosome (NC_003997)	NP_844364.1	246045
51978	A03	BA1928	feruloyl-CoA synthetase, putative	Chromosome (NC_003997)	NP_844337.1	246158
52131	A04	BA0965	dihydroxyacetone kinase family protein	Chromosome (NC_003997)	NP_843470.1	240671
50670	A05	BA2949	hypothetical protein	Chromosome (NC_003997)	NP_845285.1	243925
52172	A06	BA0228	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842784.1	247494
52130	A07	BA4397	DNA repair protein RecN	Chromosome (NC_003997)	NP_846626.1	247831
50766	A08	BA3170	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_845483.1	241116
52179	A09	BA0550	hypothetical protein	Chromosome (NC_003997)	NP_843085.1	245981
52141	A10	BA4230	alpha-amylase	Chromosome (NC_003997)	NP_846465.1	246604
50789	A11	BA2081	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_844481.1	255660
52080	A12	BA4959	polysaccharide biosynthesis family protein	Chromosome (NC_003997)	NP_847154.1	245444
52197	B01	BA5084	ABC transporter, permease protein	Chromosome (NC_003997)	NP_847274.1	240855
51376	B02	BA4331	riboflavin biosynthesis protein RibD	Chromosome (NC_003997)	NP_846564.1	246051
49998	B03	BA4256	hydrolase, haloacid dehalogenase-like family	Chromosome (NC_003997)	NP_846491.1	246159
52198	B04	BA3291	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_845584.1	240673
51979	B05	BA2978	ribose ABC transporter, ATP-binding protein, putative	Chromosome (NC_003997)	NP_845312.1	243989
51924	B06	BA1613	polysaccharide biosynthesis protein, putative	Chromosome (NC_003997)	NP_844061.1	247564
52178	B07	BA4400	1-deoxyxylulose-5-phosphate synthase	Chromosome (NC_003997)	NP_846629.1	247835
51299	B08	BA1337	iron compound ABC transporter, iron compound-binding protein, protein	Chromosome (NC_003997)	NP_843801.1	241145

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52204	B09	BA0558	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_843093.1	245983
52183	B10	BA4667	ABC transporter, permease protein	Chromosome (NC_003997)	NP_846882.1	246606
50868	B11	BA2550	3-hydroxy-3-methylglutarate-CoA lyase	Chromosome (NC_003997)	NP_844918.1	255665
52093	B12	BA0739	potassium-transporting ATPase, A subunit	Chromosome (NC_003997)	NP_843264.1	245446
51772	C01	BA3429	gluconate permease	Chromosome (NC_003997)	NP_845713.1	244072
51544	C02	BA4333	3,4-dihydroxy-2-butanone 4-phosphate synthase/GTP cyclohydrolase	Chromosome (NC_003997)	NP_846566.1	246057
52081	C03	BA1902	multicopper oxidase family protein	Chromosome (NC_003997)	NP_844313.1	246164
50317	C04	BA4679	stage IV sporulation protein FA	Chromosome (NC_003997)	NP_846893.1	246453
52091	C05	BA5305	hypothetical protein	Chromosome (NC_003997)	NP_847482.1	243999
52030	C06	BA1617	hypothetical protein	Chromosome (NC_003997)	NP_844064.1	247567
52200	C07	BA0165	prolyl oligopeptidase family protein, putative	Chromosome (NC_003997)	NP_842730.1	247837
51970	C08	BA3223	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_845530.1	241171
50764	C09	BA2178	hypothetical protein	Chromosome (NC_003997)	NP_844571.1	244220
52186	C10	BA4668	ABC transporter, permease protein	Chromosome (NC_003997)	NP_846883.1	246608
50887	C11	BA2139	membrane protein, putative	Chromosome (NC_003997)	NP_844537.1	255668
51069	C12	BA2731	hypothetical protein	Chromosome (NC_003997)	NP_845081.1	240873
52018	D01	BA3428	gluconate kinase	Chromosome (NC_003997)	NP_845712.1	244086
51656	D02	BA1952	NLP/P60 family protein	Chromosome (NC_003997)	NP_844361.1	246059
52106	D03	BA4763	long-chain-fatty-acid-CoA ligase	Chromosome (NC_003997)	NP_846969.1	246166
50681	D04	BA4683	rod shape-determining protein MreC	Chromosome (NC_003997)	NP_846897.1	246469
52199	D05	BA5303	hypothetical protein	Chromosome (NC_003997)	NP_847480.1	244003
52097	D06	BA3994	phosphatase, putative	Chromosome (NC_003997)	NP_846236.1	247568
51487	D07	BA0679	hypothetical protein	Chromosome (NC_003997)	NP_843206.1	245587
52078	D08	BA3676	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_845939.1	241181
51724	D09	BA0747	xanthine/uracil permease family protein	Chromosome (NC_003997)	NP_843272.1	244260
51467	D10	BA1639	germination protein gerN	Chromosome (NC_003997)	NP_844086.1	247281
52110	D11	BA0599	neutral protease	Chromosome (NC_003997)	NP_843132.1	245882
51262	D12	BA0861	hypothetical protein	Chromosome (NC_003997)	NP_843374.1	240884
52068	E01	BA5278	methionyl-tRNA synthetase, putative	Chromosome (NC_003997)	NP_847457.1	244088
52118	E02	BA1945	transport ATP-binding protein CydC	Chromosome (NC_003997)	NP_844354.1	246074
51272	E03	BA5664	GGDEF domain protein	Chromosome (NC_003997)	NP_847811.1	240627
51858	E04	BA4677	ribonuclease, Rne/Rng family	Chromosome (NC_003997)	NP_846891.2	246510
50505	E05	BA0283	bacitracin resistance protein	Chromosome (NC_003997)	NP_842833.1	247421
52112	E06	BA3957	prolyl-tRNA synthetase	Chromosome (NC_003997)	NP_846200.1	247570
51575	E07	BA4880	argininosuccinate synthase	Chromosome (NC_003997)	NP_847081.1	245595
52085	E08	BA3711	urocanate hydratase	Chromosome (NC_003997)	NP_845974.1	241183

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52079	E09	BA5510	teichoic acid ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_847669.1	244268
52077	E10	BA1640	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_844087.1	247309
52161	E11	BA0591	glycerophosphoryl diester phosphodiesterase family protein	Chromosome (NC_003997)	NP_843124.1	245887
52170	E12	BA5534	NADH dehydrogenase I, L subunit	Chromosome (NC_003997)	NP_847692.2	240926
49831	F01	BA5272	dedA protein	Chromosome (NC_003997)	NP_847451.1	244089
52123	F02	BA1946	transport ATP-binding protein CydD	Chromosome (NC_003997)	NP_844355.1	246076
51645	F03	BA3346	6-aminohexanoate-dimer hydrolase, putative	Chromosome (NC_003997)	NP_845632.1	240653
52101	F04	BA0465	prophage LambdaBa04, terminase, large subunit, putative	Chromosome (NC_003997)	NP_843005.1	246520
52040	F05	BA0247	ATP-dependent RNA helicase, DEAD/DEAH box family	Chromosome (NC_003997)	NP_842800.1	247487
52190	F06	BA1586	hypothetical protein	Chromosome (NC_003997)	NP_844035.1	247573
52117	F07	BA4901	septation ring formation regulator	Chromosome (NC_003997)	NP_847100.1	245621
52133	F08	BA2443	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_844819.1	245973
52119	F09	BA5411	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_847583.1	244272
52157	F10	BA4544	GTP-binding protein LepA	Chromosome (NC_003997)	NP_846767.1	247311
52191	F11	BA4820	threonyl-tRNA synthetase	Chromosome (NC_003997)	NP_847023.1	245889
52058	F12	BA1443	nitrite reductase	Chromosome (NC_003997)	NP_843899.1	241109
52084	G01	BA3386	hypothetical protein	Chromosome (NC_003997)	NP_845672.1	244092
51512	G02	BA4252	5-methylthioribose kinase, putative	Chromosome (NC_003997)	NP_846487.1	246140
51882	G03	BA3296	MATE efflux family protein	Chromosome (NC_003997)	NP_845588.1	240665
52115	G04	BA2352	acyl-CoA dehydrogenase	Chromosome (NC_003997)	NP_844734.1	246522
52076	G05	BA0223	hypothetical protein	Chromosome (NC_003997)	NP_842780.1	247489
52004	G06	BA4393	hypothetical protein	Chromosome (NC_003997)	NP_846623.1	247827
52146	G07	BA0656	oligopeptide ABC transporter, oligopeptide-binding protein	Chromosome (NC_003997)	NP_843186.1	245623
52151	G08	BA2444	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_844820.1	245977
52180	G09	BA2164	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844559.1	244274
52162	G10	BA4539	chaperone protein dnaK	Chromosome (NC_003997)	NP_846762.1	247313
52206	G11	BA0575	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_843109.1	245891
52104	G12	BA3787	prophage LambdaBa01, terminase, large subunit, putative	Chromosome (NC_003997)	NP_846043.1	241111
52177	H01	BA5733	glucose-inhibited division protein A	Chromosome (NC_003997)	NP_847878.1	244098
51925	H02	BA1924	amine oxidase, flavin-containing	Chromosome (NC_003997)	NP_844333.1	246154
52086	H03	BA5179	hypothetical protein	Chromosome (NC_003997)	NP_847362.1	240669

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
50571	H04	BA2995	pyrroline-5-carboxylate reductase	Chromosome (NC_003997)	NP_845327.1	243921
52092	H05	BA0231	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_842787.1	247491
52121	H06	BA0180	hypothetical protein	Chromosome (NC_003997)	NP_842744.1	247829
52194	H07	BA2553	acetoacetyl-CoA synthase, putative	Chromosome (NC_003997)	NP_844921.1	245625
52153	H08	BA4812	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_847015.1	245979
52098	H09	BA4231	oligo-1,6-glucosidase	Chromosome (NC_003997)	NP_846466.1	246602
50719	H10	BA2130	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844528.1	255652
51927	H11	BA4961	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_847156.1	245438

Table 51: *Bacillus anthracis* Gateway® Clone, Plate 51 (QMG003150), NR-19775¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
52071	A02	BA0194	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_842757.1	247740
52173	A03	BA0623	hypothetical protein	Chromosome (NC_003997)	NP_843154.1	245801
52167	A04	BA3612	squalene-hopene cyclase	Chromosome (NC_003997)	NP_845882.1	242654
52140	A05	BA0852	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_843367.1	241013
52054	A06	BA4058	hypothetical protein	Chromosome (NC_003997)	NP_846298.1	247214
52155	A07	BA5706	oligoendopeptidase F, putative	Chromosome (NC_003997)	NP_847852.1	244358
52193	A08	BA0790	transcription antiterminator, BglG family	Chromosome (NC_003997)	NP_843309.1	244456
52174	B01	BA3846	PTS system, fructose-specific IIABC component	Chromosome (NC_003997)	NP_846097.1	241113
52090	B02	BA0774	pyridine nucleotide-disulfide oxidoreductase, class I	Chromosome (NC_003997)	NP_843296.1	247742
47896	B03	BA1028	hypothetical protein	Chromosome (NC_003997)	NP_843529.1	248209
52202	B04	BA1239	ATP-dependent DNA helicase, UvrD/REP family	Chromosome (NC_003997)	NP_843711.1	242656
52210	B05	BA5064	ferrous iron transport protein B	Chromosome (NC_003997)	NP_847255.1	241019
52208	B06	BA4078	phage minor structural protein	Chromosome (NC_003997)	NP_846317.1	247220
52164	B07	BA5714	sensory box histidine kinase YycG	Chromosome (NC_003997)	NP_847860.1	244360
52187	B08	BA5470	sulfatase	Chromosome (NC_003997)	NP_847636.1	244181
52011	C01	BA3926	sugar ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846171.1	247919
52169	C02	BA4996	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_847190.1	247744
51938	C03	BA1038	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_843538.1	248257
51957	C04	BA3076	lysine-specific permease	Chromosome (NC_003997)	NP_845406.1	242741

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51928	C05	BA1800	aspartate ammonia-lyase	Chromosome (NC_003997)	NP_844224.1	246685
49765	C06	BA1491	spore maturation protein A	Chromosome (NC_003997)	NP_843944.1	254218
49179	C07	BA2821	hypothetical protein	Chromosome (NC_003997)	NP_845167.1	240554
52184	C08	BA2388	threonyl-tRNA synthetase	Chromosome (NC_003997)	NP_844767.1	246433
52138	D01	BA3910	pyruvate ferredoxin oxidoreductase, alpha subunit, putative	Chromosome (NC_003997)	NP_846157.1	247923
52142	D02	BXB0111	hypothetical protein BXB0111	pOX2 (NC_003981)	NP_653072.1	231105
51977	D03	BA1026	glycerol kinase	Chromosome (NC_003997)	NP_843527.1	248259
52158	D04	BA1206	oligoendopeptidase F	Chromosome (NC_003997)	NP_843681.1	242747
52127	D05	BA1801	malate oxidoreductase	Chromosome (NC_003997)	NP_844225.1	246696
51815	D06	BA1484	transposase, IS605 family	Chromosome (NC_003997)	NP_843937.1	254223
52124	D07	BA5153	phosphoglucosyltransferase/phosphomannosyltransferase family protein	Chromosome (NC_003997)	NP_847339.1	240577
52175	E01	BA3904	DNA mismatch repair protein MutL	Chromosome (NC_003997)	NP_846151.1	247927
52171	E02	BXB0016	hypothetical protein BXB0016	pOX2 (NC_003981)		231109
51114	E03	BA0901	proline racemase, putative	Chromosome (NC_003997)	NP_843412.1	240433
52195	E04	BA3042	GTP-binding elongation factor protein, TetM/TetO family	Chromosome (NC_003997)	NP_845373.1	242749
48150	E05	BA0003	hypothetical protein	Chromosome (NC_003997)	NP_842575.1	247589
51587	E06	BA3447	major facilitator family transporter	Chromosome (NC_003997)	NP_845730.1	248162
51956	E07	BA1159	catalase	Chromosome (NC_003997)	NP_843641.1	242831
51923	F01	BA3886	transcriptional regulator, GntR family/aminotransferase, class I protein	Chromosome (NC_003997)	NP_846133.1	247986
52188	F02	BXB0008	hypothetical protein BXB0008	pOX2 (NC_003981)	NP_652978.1	231111
52137	F03	BA5111	2-succinyl-6-hydroxy-2,4-cyclohexadiene-1-carboxylic acid synthase	Chromosome (NC_003997)	NP_847297.1	240485
51741	F04	BA1865	chlorohydrolase family protein	Chromosome (NC_003997)	NP_844282.1	246250
51893	F05	BA2636	sensor histidine kinase	Chromosome (NC_003997)	NP_844998.2	247649
52109	F06	BA3442	neutral protease	Chromosome (NC_003997)	NP_845725.1	248174
52149	F07	BA3553	oligoendopeptidase F	Chromosome (NC_003997)	NP_845826.1	242841
52006	G01	BA1505	ATP-dependent DNA helicase RecQ	Chromosome (NC_003997)	NP_843957.1	247988
52154	G02	BA1981	siderophore biosynthesis protein, putative	Chromosome (NC_003997)	NP_844387.1	245797
52192	G03	BA5123	1,4-alpha-glucan branching enzyme	Chromosome (NC_003997)	NP_847309.1	240487
51845	G04	BA1882	hypothetical protein	Chromosome (NC_003997)	NP_844297.1	246252
51929	G05	BA2221	membrane protein, putative	Chromosome (NC_003997)	NP_844613.1	246856
52126	G06	BA0981	S-layer protein, putative	Chromosome (NC_003997)	NP_843482.1	239731
51992	G07	BA2183	neutral metalloprotease, putative	Chromosome (NC_003997)	NP_844576.1	247138
52144	H01	BA1498	sensor histidine kinase ResE	Chromosome (NC_003997)	NP_843950.1	247992
52163	H02	BA1982	siderophore biosynthesis protein, putative	Chromosome (NC_003997)	NP_844388.1	245799

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
51967	H03	BA1246	sodium/proline symporter family protein	Chromosome (NC_003997)	NP_843718.1	242642
52139	H04	BA0528	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_843063.1	246259
52182	H05	BA2251	asparagine synthetase, glutamine-hydrolyzing	Chromosome (NC_003997)	NP_844641.1	246869
52128	H06	BA2881	bacterial extracellular solute-binding protein, family 5	Chromosome (NC_003997)	NP_845222.1	239733
52207	H07	BA2009	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_844413.1	245714

Table 52: *Bacillus anthracis* Gateway® Clone, Plate 52 (QMG003416), NR-19776¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82041	A02	BA0202	molybdenum ABC transporter, permease protein	Chromosome (NC_003997)	NP_842764.2	258800
81864	A03	BA4408	acetyl-CoA carboxylase, biotin carboxylase	Chromosome (NC_003997)	NP_846636.1	247815
82223	A04	BA4381	cell division protein, FtsW/RodA/SpoVE family	Chromosome (NC_003997)	NP_846611.1	259074
82059	A05	BA4353	acetylglutamate kinase	Chromosome (NC_003997)	NP_846585.1	258823
82338	A06	BA3914	HDIG/HD/KH domain protein	Chromosome (NC_003997)	NP_846161.1	263057
82056	A07	BA3868	exodeoxyribonuclease III	Chromosome (NC_003997)	NP_846117.1	258820
82160	A08	BA3841	hypothetical protein	Chromosome (NC_003997)	NP_846092.1	258969
82311	A09	BA3791	hypothetical protein	Chromosome (NC_003997)	NP_846046.1	262978
82214	A10	BA1342	hypothetical protein	Chromosome (NC_003997)	NP_843805.1	259062
82254	A11	BA3700	membrane protein, putative	Chromosome (NC_003997)	NP_845963.1	259111
82141	A12	BA1249	para-aminobenzoate synthase glutamine amidotransferase, component	Chromosome (NC_003997)	NP_843721.1	258939
82047	B01	BA1529	hypothetical protein	Chromosome (NC_003997)	NP_843980.1	258807
82300	B02	BA4429	spore photoproduct lyase	Chromosome (NC_003997)	NP_846657.1	259168
81961	B03	BA4406	N utilization substance protein B	Chromosome (NC_003997)	NP_846634.1	256075
81945	B04	BA4377	hypothetical protein	Chromosome (NC_003997)	NP_846607.1	254178
82110	B05	BA0117	ribosomal protein L16	Chromosome (NC_003997)	NP_842685.1	258894
82177	B06	BA3908	hypothetical protein	Chromosome (NC_003997)	NP_846155.1	258999
82261	B07	BA3864	iron compound ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_846114.1	259119
81891	B08	BA1461	hypothetical protein	Chromosome (NC_003997)	NP_843916.1	253109
81992	B09	BA3770	hypothetical protein	Chromosome (NC_003997)	NP_846028.1	258670
82192	B10	BA3256	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_845556.1	259029
82076	B11	BA1299	spermidine/putrescine ABC transporter, permease protein	Chromosome (NC_003997)	NP_843767.1	258846
82114	B12	BA1234	spore coat protein Z	Chromosome (NC_003997)	NP_843706.1	258901
82171	C01	BA1528	hypothetical protein	Chromosome (NC_003997)	NP_843979.1	258992
82118	C02	BA4428	iron-dependent repressor family protein	Chromosome (NC_003997)	NP_846656.1	258906
81863	C03	BA4399	hemolysin A	Chromosome (NC_003997)	NP_846628.1	247760

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82072	C04	BA0141	cobalt transport protein	Chromosome (NC_003997)	NP_842709.1	258839
82102	C05	BA0115	ribosomal protein L22	Chromosome (NC_003997)	NP_842683.1	258883
82057	C06	BA3901	bacteriocin ABC transporter, permease protein subunit, putative	Chromosome (NC_003997)	NP_846148.1	258821
82339	C07	BA1485	hypothetical protein	Chromosome (NC_003997)	NP_843938.1	263059
82037	C08	BA1440	phosphoadenosine phosphosulfate reductase	Chromosome (NC_003997)	NP_843896.1	258796
82117	C09	BA3768	prophage LambdaBa01, holin, putative	Chromosome (NC_003997)	NP_846026.1	258905
82357	C10	BA3248	3-beta hydroxysteroid dehydrogenase/isomerase family protein	Chromosome (NC_003997)	NP_845549.1	263102
81896	C11	BA1296	aldehyde dehydrogenase	Chromosome (NC_003997)	NP_843764.1	253217
82131	C12	BA3611	hypothetical protein	Chromosome (NC_003997)	NP_845881.1	258923
82246	D01	BA1525	GTPase family protein	Chromosome (NC_003997)	NP_843976.1	259101
82278	D02	BA4425	hypothetical protein	Chromosome (NC_003997)	NP_846653.1	259138
81975	D03	BA0159	glucosamine--fructose-6-phosphate aminotransferase (isomerizing)	Chromosome (NC_003997)	NP_842725.1	258643
82098	D04	BA0135	ribosomal protein S13	Chromosome (NC_003997)	NP_842703.1	258878
82337	D05	BA4347	lipase/acylhydrolase, putative	Chromosome (NC_003997)	NP_846579.1	263056
81866	D06	BA3895	sulfatase	Chromosome (NC_003997)	NP_846142.1	247929
82045	D07	BA1483	purine nucleoside phosphorylase	Chromosome (NC_003997)	NP_843936.1	258804
82122	D08	BA1437	hypothetical protein	Chromosome (NC_003997)	NP_843893.1	258910
82078	D09	BA3755	hypothetical protein	Chromosome (NC_003997)	NP_846015.1	258848
82312	D10	BA3245	hypothetical protein	Chromosome (NC_003997)	NP_845546.1	262981
82226	D11	BA3660	serine protease	Chromosome (NC_003997)	NP_845925.1	259079
82282	D12	BA1208	hypothetical protein	Chromosome (NC_003997)	NP_843683.1	259145
82335	E01	BA4441	hypothetical protein	Chromosome (NC_003997)	NP_846669.1	263052
82181	E02	BA0195	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_842758.1	259009
82168	E03	BA0156	hypothetical protein	Chromosome (NC_003997)	NP_842722.1	258987
81865	E04	BA0132	methionine aminopeptidase	Chromosome (NC_003997)	NP_842700.1	247845
81946	E05	BA0111	ribosomal protein L4	Chromosome (NC_003997)	NP_842679.1	254205
82096	E06	BA3885	hypothetical protein	Chromosome (NC_003997)	NP_846132.1	258873
81976	E07	BA1482	sensor histidine kinase	Chromosome (NC_003997)	NP_843935.1	258645
81984	E08	BA1436	sulfatase	Chromosome (NC_003997)	NP_843892.1	258658
81893	E09	BA3754	LexA repressor	Chromosome (NC_003997)	NP_846014.1	253131
81897	E10	BA3232	hypothetical protein	Chromosome (NC_003997)	NP_845538.1	253219
82005	E11	BA3656	DNA topoisomerase IV, A subunit	Chromosome (NC_003997)	NP_845921.1	258685
82286	E12	BA3153	response regulator	Chromosome (NC_003997)	NP_845471.1	259150
81962	F01	BA4439	membrane protein, putative	Chromosome (NC_003997)	NP_846667.1	256108
82179	F02	BA0189	oligopeptide ABC transporter, oligopeptide-binding protein	Chromosome (NC_003997)	NP_842752.1	259006
82206	F03	BA4387	leucine dehydrogenase	Chromosome (NC_003997)	NP_846617.1	259052
82245	F04	BA0130	preprotein translocase, SecY subunit	Chromosome (NC_003997)	NP_842698.1	259100
81949	F05	BA0107	translation elongation factor G	Chromosome (NC_003997)	NP_842675.1	255729

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82309	F06	BA1504	hypothetical protein	Chromosome (NC_003997)	NP_843956.1	259186
82003	F07	BA3859	heavy metal-transporting ATPase	Chromosome (NC_003997)	NP_846109.1	258683
82233	F08	BA1426	histidinol dehydrogenase	Chromosome (NC_003997)	NP_843883.1	259087
81990	F09	BA3744	transketolase	Chromosome (NC_003997)	NP_846005.1	258666
81947	F10	BA3221	bifunctional P-450:NADPH-P450 reductase 1	Chromosome (NC_003997)	NP_845528.1	255663
81986	F11	BA1268	hypothetical protein	Chromosome (NC_003997)	NP_843740.1	258661
82203	F12	BA3102	stage II sporulation protein P, putative	Chromosome (NC_003997)	NP_845428.1	259046
82270	G01	BA0208	transcriptional regulator, LysR family	Chromosome (NC_003997)	NP_842769.1	259129
81968	G02	BA0187	oligopeptide ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842750.1	256178
82144	G03	BA0149	kinb signaling pathway activation protein	Chromosome (NC_003997)	NP_842716.1	258944
82276	G04	BA4360	L-serine dehydratase, iron-sulfur-dependent, alpha subunit	Chromosome (NC_003997)	NP_846591.1	259136
82119	G05	BA0106	ribosomal protein S7	Chromosome (NC_003997)	NP_842674.1	258907
82111	G06	BA3883	hypothetical protein	Chromosome (NC_003997)	NP_846130.1	258895
82080	G07	BA3857	formate transporter, putative	Chromosome (NC_003997)	NP_846107.1	258852
82187	G08	BA1417	acetolactate synthase, large subunit, biosynthetic type	Chromosome (NC_003997)	NP_843874.1	259023
82103	G09	BA1373	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_843831.1	258884
82303	G10	BA3197	arsenical-resistance protein	Chromosome (NC_003997)	NP_845507.1	259173
81837	G11	BA3644	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_845911.1	242650
82014	G12	BA3584	microbial collagenase, putative	Chromosome (NC_003997)	NP_845854.1	258697
82277	H01	BA0205	molybdopterin biosynthesis protein, putative	Chromosome (NC_003997)	NP_842766.1	259137
81965	H02	BA0185	oligopeptide ABC transporter, permease protein	Chromosome (NC_003997)	NP_842748.1	256162
82108	H03	BA0145	hypothetical protein	Chromosome (NC_003997)	NP_842712.1	258892
82302	H04	BA4355	N-acetyl-gamma-glutamyl-phosphate reductase	Chromosome (NC_003997)	NP_846587.1	259171
82231	H05	BA3923	hypothetical protein	Chromosome (NC_003997)	NP_846170.1	259085
82010	H06	BA3879	sensory box/GGDEF family protein	Chromosome (NC_003997)	NP_846127.1	258693
82133	H07	BA1468	transcriptional regulator, putative	Chromosome (NC_003997)	NP_843923.1	258929
81831	H08	BA3819	hypothetical protein	Chromosome (NC_003997)	NP_846071.1	241049
81895	H09	BA3740	ABC transporter, ATP-binding/permease protein	Chromosome (NC_003997)	NP_846001.1	253200
82087	H10	BA3165	bromoperoxidase	Chromosome (NC_003997)	NP_845479.1	258859
81899	H11	BA3642	oligopeptide ABC transporter, oligopeptide-binding protein, putative	Chromosome (NC_003997)	NP_845910.1	253266

Table 53: *Bacillus anthracis* Gateway® Clone, Plate 53 (QMG003417), NR-19777¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82137	A02	BA3519	hypothetical protein	Chromosome (NC_003997)	NP_845797.1	258934
82340	A03	BA1081	hypothetical protein	Chromosome (NC_003997)	NP_843574.1	263061
81906	A04	BA2947	sulfatase	Chromosome (NC_003997)	NP_845283.1	253405
81908	A05	BA5737	ribonuclease P protein component	Chromosome (NC_003997)	NP_847882.1	253444
82121	A06	BA1065	hypothetical protein	Chromosome (NC_003997)	NP_843560.1	258909
81977	A07	BA5246	acyl-CoA dehydrogenase	Chromosome (NC_003997)	NP_847425.1	258646
82266	A08	BA0995	methyltransferase, CheR family	Chromosome (NC_003997)	NP_843496.1	259124
82198	A09	BA5724	GTP-binding protein YchF	Chromosome (NC_003997)	NP_847870.1	259039
82236	A10	BA5645	xanthine/uracil permease family protein	Chromosome (NC_003997)	NP_847793.1	259090
82116	A11	BA5165	hypothetical protein	Chromosome (NC_003997)	NP_847350.1	258904
81884	A12	BA2765	transcriptional regulator, DeoR family	Chromosome (NC_003997)	NP_845114.1	253015
82007	B01	BA1177	ATP-dependent Clp protease, ATP-binding subunit ClpB	Chromosome (NC_003997)	NP_843655.1	258690
82219	B02	BA3518	drug resistance transporter, Bcr/CflA family	Chromosome (NC_003997)	NP_845796.1	259068
82212	B03	BA3033	alkaline D-peptidase	Chromosome (NC_003997)	NP_845364.1	259058
82084	B04	BA2944	polysaccharide deacetylase, putative	Chromosome (NC_003997)	NP_845280.1	258856
82105	B05	BA3423	transcriptional regulator, putative	Chromosome (NC_003997)	NP_845707.2	258886
82070	B06	BA5271	hypothetical protein	Chromosome (NC_003997)	NP_847450.1	258837
82129	B07	BA2914	hypothetical protein	Chromosome (NC_003997)	NP_845250.1	258921
82112	B08	BA0993	hypothetical protein	Chromosome (NC_003997)	NP_843494.1	258898
82020	B09	BA5721	ribosomal protein S18	Chromosome (NC_003997)	NP_847867.1	258703
82001	B10	BA3330	beta-lactam antibiotic acylase family protein	Chromosome (NC_003997)	NP_845618.1	258681
82090	B11	BA5146	hypothetical protein	Chromosome (NC_003997)	NP_847332.1	258863
82175	B12	BA0883	polysaccharide biosynthesis protein CsaA	Chromosome (NC_003997)	NP_843395.1	258997
81955	C01	BA3547	MutS family protein, putative	Chromosome (NC_003997)	NP_845823.1	255823
82313	C02	BA1131	malate synthase A	Chromosome (NC_003997)	NP_843616.1	262984
82169	C03	BA5365	phosphoglycerate mutase, 2,3-bisphosphoglycerate-independent	Chromosome (NC_003997)	NP_847539.1	258988
82049	C04	BA3471	oxidoreductase, short chain dehydrogenase/reductase family	Chromosome (NC_003997)	NP_845753.1	258810
82104	C05	BA3399	glyoxylase family protein	Chromosome (NC_003997)	NP_845684.1	258885
82042	C06	BA2929	flavoprotein, putative	Chromosome (NC_003997)	NP_845265.1	258801
82218	C07	BA2899	aminotransferase, classes I and II	Chromosome (NC_003997)	NP_845238.1	259067
81963	C08	BA5201	membrane protein, putative	Chromosome (NC_003997)	NP_847384.1	256121
82074	C09	BA5711	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_847857.1	258843
82239	C10	BA5627	HD domain protein	Chromosome (NC_003997)	NP_847778.1	259093
81878	C11	BA0927	hypothetical protein	Chromosome (NC_003997)	NP_843433.1	248798
81999	C12	BA0882	preprotein translocase, SecA subunit	Chromosome (NC_003997)	NP_843394.1	258679
81901	D01	BA3541	hypothetical protein	Chromosome (NC_003997)	NP_845818.1	253314

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82188	D02	BA1118	sensor histidine kinase	Chromosome (NC_003997)	NP_843604.1	259024
82297	D03	BA5361	hypothetical protein	Chromosome (NC_003997)	NP_847535.1	259165
82067	D04	BA3470	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_845752.1	258834
82063	D05	BA3390	DNA-binding protein	Chromosome (NC_003997)	NP_845676.1	258828
81983	D06	BA5258	cell wall surface anchor family protein	Chromosome (NC_003997)	NP_847437.1	258657
81910	D07	BA1014	transporter, putative	Chromosome (NC_003997)	NP_843515.1	253477
81972	D08	BA2860	hydrolase, CocE/NonD family	Chromosome (NC_003997)	NP_845202.1	258640
82275	D09	BA5707	hypothetical protein	Chromosome (NC_003997)	NP_847853.1	259135
82036	D10	BA0961	membrane protein, putative	Chromosome (NC_003997)	NP_843466.1	258792
82306	D11	BA5131	hypothetical protein	Chromosome (NC_003997)	NP_847317.1	259178
82242	D12	BA5095	gluconate permease	Chromosome (NC_003997)	NP_847282.1	259097
82288	E01	BA1158	ferrochelatase	Chromosome (NC_003997)	NP_843640.1	259153
81903	E02	BA3500	beta-lactamase II	Chromosome (NC_003997)	NP_845780.1	253351
81841	E03	BA3001	alkaline phosphatase	Chromosome (NC_003997)	NP_845333.1	244001
82255	E04	BA3467	aminoglycoside phosphotransferase-related protein	Chromosome (NC_003997)	NP_845749.1	259113
82158	E05	BA5289	sodium/alanine symporter family protein	Chromosome (NC_003997)	NP_847468.1	258967
81875	E06	BA5256	methyl-accepting chemotaxis protein	Chromosome (NC_003997)	NP_847435.1	248793
81970	E07	BA2891	hypothetical protein	Chromosome (NC_003997)	NP_845231.1	256194
81967	E08	BA5198	hypothetical protein	Chromosome (NC_003997)	NP_847381.1	256172
81882	E09	BA3377	membrane protein, putative	Chromosome (NC_003997)	NP_845663.1	252986
82099	E10	BA0960	ATP synthase protein I, putative	Chromosome (NC_003997)	NP_843465.1	258880
82147	E11	BA5130	phosphoglucose isomerase	Chromosome (NC_003997)	NP_847316.1	258949
82145	E12	BA2754	transcriptional regulator, TetR family	Chromosome (NC_003997)	NP_845104.1	258945
81981	F01	BA1157	asparagine synthetase, glutamine-hydrolyzing	Chromosome (NC_003997)	NP_843639.2	258653
81838	F02	BA3497	prismane protein	Chromosome (NC_003997)	NP_845777.1	242925
81839	F03	BA2986	lipoprotein, putative	Chromosome (NC_003997)	NP_845319.1	243984
82135	F04	BA3466	hypothetical protein	Chromosome (NC_003997)	NP_845748.1	258931
82085	F05	BA1077	membrane protein, putative	Chromosome (NC_003997)	NP_843570.1	258857
82299	F06	BA2921	sulfonate ABC transporter, sulfonate-binding protein, putative	Chromosome (NC_003997)	NP_845257.1	259167
82304	F07	BA2889	hypothetical protein	Chromosome (NC_003997)	NP_845229.1	259175
81912	F08	BA2856	hypothetical protein	Chromosome (NC_003997)	NP_845198.1	253513
82292	F09	BA5684	glycosyl transferase, group 2 family protein	Chromosome (NC_003997)	NP_847830.1	259158
82073	F10	BA5178	hypothetical protein	Chromosome (NC_003997)	NP_847361.1	258841
82153	F11	BA2773	dihydrolipoamide dehydrogenase	Chromosome (NC_003997)	NP_845122.1	258960
81827	F12	BA5090	permease, putative	Chromosome (NC_003997)	NP_847279.1	240857
82146	G01	BA1147	spore germination protein GerPC	Chromosome (NC_003997)	NP_843631.1	258946
82170	G02	BA1091	long-chain-fatty-acid--CoA ligase, putative	Chromosome (NC_003997)	NP_843584.1	258989
82006	G03	BA2959	hypothetical protein	Chromosome (NC_003997)	NP_845294.1	258687
82109	G04	BA3456	hypothetical protein	Chromosome (NC_003997)	NP_845739.1	258893
82355	G05	BA1076	hypothetical protein	Chromosome (NC_003997)	NP_843569.1	263099

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82199	G06	BA2919	alkanesulfonate monooxygenase	Chromosome (NC_003997)	NP_845255.2	259040
82089	G07	BA2884	hypothetical protein	Chromosome (NC_003997)	NP_845225.1	258862
82314	G08	BA2842	dedA family protein	Chromosome (NC_003997)	NP_845186.1	262997
81824	G09	BA3355	thiol-activated cytolysin	Chromosome (NC_003997)	NP_845641.1	240667
82018	G10	BA0956	hypothetical protein	Chromosome (NC_003997)	NP_843461.1	258701
82256	G11	BA5110	hydrolase, alpha/beta fold family	Chromosome (NC_003997)	NP_847296.1	259114
82298	G12	BA5088	sensor histidine kinase	Chromosome (NC_003997)	NP_847278.1	259166
81952	H01	BA1140	signal peptidase I	Chromosome (NC_003997)	NP_843624.1	255769
81988	H02	BA5396	excinuclease ABC, B subunit	Chromosome (NC_003997)	NP_847569.1	258664
82197	H03	BA2955	histidinol-phosphate aminotransferase	Chromosome (NC_003997)	NP_845290.1	259038
82165	H04	BA3433	glucose-6-phosphate 1-dehydrogenase	Chromosome (NC_003997)	NP_845717.2	258984
81842	H05	BA1075	endonuclease/exonuclease/phosphatase family	Chromosome (NC_003997)	NP_843568.1	244096
82213	H06	BA1034	cell division protein, FtsW/RodA/SpoVE family	Chromosome (NC_003997)	NP_843533.1	259061
81969	H07	BA2876	hypothetical protein	Chromosome (NC_003997)	NP_845217.1	256182
81914	H08	BA2830	sodium/alanine symporter family protein	Chromosome (NC_003997)	NP_845176.1	253524
81883	H09	BA3333	hypothetical protein	Chromosome (NC_003997)	NP_845621.1	252998
81822	H10	BA0954	mxmA domain protein	Chromosome (NC_003997)	NP_843459.1	240579
81826	H11	BA2769	rrf2 family protein	Chromosome (NC_003997)	NP_845118.1	240806

Table 54: *Bacillus anthracis* Gateway® Clone, Plate 54 (QMG003418), NR-19778¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
81825	A02	BA5601	methionine aminopeptidase	Chromosome (NC_003997)	NP_847756.2	240781
82071	A03	BA5545	hypothetical protein	Chromosome (NC_003997)	NP_847703.1	258838
82092	A04	BA5053	hypothetical protein	Chromosome (NC_003997)	NP_847244.1	258865
82289	A05	BA2688	hypothetical protein	Chromosome (NC_003997)	NP_845045.1	259155
81996	A06	BA2648	penicillin-binding protein	Chromosome (NC_003997)	NP_845010.1	258675
82091	A07	BA2630	hypothetical protein	Chromosome (NC_003997)	NP_844992.1	258864
82301	A08	BA5501	lipoprotein, putative	Chromosome (NC_003997)	NP_847661.1	259170
82210	A09	BA5451	membrane protein, putative	Chromosome (NC_003997)	NP_847619.1	259056
82265	A10	BA5415	cell division ABC transporter, permease protein FtsX	Chromosome (NC_003997)	NP_847586.1	259123
82244	A11	BA0690	branched-chain amino acid transport system II carrier protein	Chromosome (NC_003997)	NP_843217.1	259099
82162	A12	BA2538	metallo-beta-lactamase/rhodanese-like domain protein	Chromosome (NC_003997)	NP_844906.1	258979
82186	B01	BA0866	acetolactate synthase	Chromosome (NC_003997)	NP_843379.1	259021
82030	B02	BA5597	DNA-binding response regulator	Chromosome (NC_003997)	NP_847752.1	258785
82163	B03	BA5533	NADH dehydrogenase I, M subunit	Chromosome (NC_003997)	NP_847691.1	258980

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82079	B04	BA2717	N-acetyltransferase family protein	Chromosome (NC_003997)	NP_845071.1	258849
82257	B05	BA0808	hypothetical protein	Chromosome (NC_003997)	NP_843326.1	259115
82331	B06	BA0763	spore germination protein GerYA	Chromosome (NC_003997)	NP_843286.1	263044
82138	B07	BA2620	hypothetical protein	Chromosome (NC_003997)	NP_844982.1	258935
82234	B08	BA2135	molybdopterin biosynthesis protein MoeA	Chromosome (NC_003997)	NP_844533.1	259088
82274	B09	BA2082	hypothetical protein	Chromosome (NC_003997)	NP_844482.1	259134
82026	B10	BA5399	hypothetical protein	Chromosome (NC_003997)	NP_847572.1	258778
82140	B11	BA4913	RNA polymerase sigma-70 factor, ECF subfamily	Chromosome (NC_003997)	NP_847111.1	258937
82058	B12	BA4874	3-oxoacyl-(acyl-carrier-protein) reductase, putative	Chromosome (NC_003997)	NP_847075.3	258822
82100	C01	BA2739	hypothetical protein	Chromosome (NC_003997)	NP_845089.1	258881
82341	C02	BA5593	sensory box/GGDEF family protein	Chromosome (NC_003997)	NP_847749.1	263065
81828	C03	BA5528	stage II sporulation protein D	Chromosome (NC_003997)	NP_847686.1	240879
82150	C04	BA2702	hypothetical protein	Chromosome (NC_003997)	NP_845058.1	258953
82022	C05	BA0804	cotJB protein	Chromosome (NC_003997)	NP_843322.1	258706
82184	C06	BA2641	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_845003.1	259015
82000	C07	BA2618	hypothetical protein	Chromosome (NC_003997)	NP_844980.1	258680
82317	C08	BA2134	molybdopterin biosynthesis protein MoeB, putative	Chromosome (NC_003997)	NP_844532.1	263002
82009	C09	BA5437	transcription antiterminator, BglG family	Chromosome (NC_003997)	NP_847605.1	258692
82094	C10	BA4948	hypothetical protein	Chromosome (NC_003997)	NP_847145.1	258868
82281	C11	BA4903	transporter, EamA family	Chromosome (NC_003997)	NP_847102.1	259144
82023	C12	BA2524	hypothetical protein	Chromosome (NC_003997)	NP_844893.1	258709
81888	D01	BA2730	neutral protease	Chromosome (NC_003997)	NP_845080.1	253073
82258	D02	BA5571	modification methylase, HemK family	Chromosome (NC_003997)	NP_847728.1	259116
82180	D03	BA5514	glycosyl transferase, group 1 family protein	Chromosome (NC_003997)	NP_847673.1	259007
81844	D04	BA2695	hypothetical protein	Chromosome (NC_003997)	NP_845052.1	244324
82316	D05	BA0795	hypothetical protein	Chromosome (NC_003997)	NP_843314.1	263000
82332	D06	BA4985	spore germination protein GerHB	Chromosome (NC_003997)	NP_847179.1	263047
82126	D07	BA2612	hypothetical protein	Chromosome (NC_003997)	NP_844974.1	258915
82308	D08	BA2133	molybdenum cofactor biosynthesis protein A	Chromosome (NC_003997)	NP_844531.1	259182
82318	D09	BA5434	UDP-glucose 6-dehydrogenase	Chromosome (NC_003997)	NP_847602.1	263004
82194	D10	BA4947	peptidase, M42 family	Chromosome (NC_003997)	NP_847144.1	259032
81919	D11	BA0678	sphingomyelinase C	Chromosome (NC_003997)	NP_843205.1	253650
81920	D12	BA2521	lipoprotein, putative	Chromosome (NC_003997)	NP_844890.1	253660
82263	E01	BA5619	spermidine synthase	Chromosome (NC_003997)	NP_847770.1	259121
82195	E02	BA5568	sua5/yciO/yrdC/ywIC family protein	Chromosome (NC_003997)	NP_847725.1	259034
81830	E03	BA0849	glyceraldehyde-3-phosphate dehydrogenase, NADP-dependent	Chromosome (NC_003997)	NP_843365.1	241009

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
81876	E04	BA0815	purple acid phosphatase/fibronectin domain protein	Chromosome (NC_003997)	NP_843333.1	248794
82193	E05	BA5008	hypothetical protein	Chromosome (NC_003997)	NP_847202.1	259030
82038	E06	BA2639	aspartate racemase family protein	Chromosome (NC_003997)	NP_845001.1	258797
82048	E07	BA2611	transcriptional activator TenA	Chromosome (NC_003997)	NP_844973.1	258808
82125	E08	BA5467	hypothetical protein	Chromosome (NC_003997)	NP_847634.1	258914
82248	E09	BA5426	comF operon protein 1	Chromosome (NC_003997)	NP_847594.1	259103
82342	E10	BA0719	transporter, AcrB/AcrD/AcrF family	Chromosome (NC_003997)	NP_843244.1	263069
82222	E11	BA4899	thiamine biosynthesis protein ThiI	Chromosome (NC_003997)	NP_847098.1	259072
81985	E12	BA2514	iolD protein, putative	Chromosome (NC_003997)	NP_844886.1	258660
82273	F01	BA5617	agmatinase, putative	Chromosome (NC_003997)	NP_847769.1	259133
81957	F02	BA5566	hypothetical protein	Chromosome (NC_003997)	NP_847723.1	255924
81890	F03	BA5067	sensory box histidine kinase	Chromosome (NC_003997)	NP_847258.1	253097
82065	F04	BA0814	hypothetical protein	Chromosome (NC_003997)	NP_843332.1	258830
81916	F05	BA0785	Na/Pi-cotransporter family protein	Chromosome (NC_003997)	NP_843306.1	253558
81995	F06	BA2637	penicillin-binding protein	Chromosome (NC_003997)	NP_844999.1	258674
81918	F07	BA2175	arginyl-tRNA synthetase	Chromosome (NC_003997)	NP_844568.1	253605
82190	F08	BA5463	thiamine biosynthesis protein ThiC	Chromosome (NC_003997)	NP_847631.1	259027
82050	F09	BA5425	comF operon protein 3	Chromosome (NC_003997)	NP_847593.2	258811
82159	F10	BA0709	spore germination protein GerLA	Chromosome (NC_003997)	NP_843235.1	258968
82060	F11	BA4898	small, acid-soluble spore protein B	Chromosome (NC_003997)	NP_847097.1	258825
82161	F12	BA2513	methylmalonic acid semialdehyde dehydrogenase	Chromosome (NC_003997)	NP_844885.1	258973
81958	G01	BA5615	membrane protein PfoR	Chromosome (NC_003997)	NP_847767.1	255928
82227	G02	BA5558	serine hydroxymethyltransferase	Chromosome (NC_003997)	NP_847716.1	259080
82217	G03	BA0844	permease, putative	Chromosome (NC_003997)	NP_843361.1	259066
82315	G04	BA5032	hypothetical protein	Chromosome (NC_003997)	NP_847225.1	262999
82202	G05	BA0777	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_843299.1	259045
82152	G06	BA0754	PTS system, sucrose-specific IIBC component	Chromosome (NC_003997)	NP_843278.1	258959
82344	G07	BA2146	nitrite reductase [NAD(P)H], large subunit	Chromosome (NC_003997)	NP_844544.1	263073
82149	G08	BA5460	cytochrome d ubiquinol oxidase, subunit I	Chromosome (NC_003997)	NP_847628.1	258951
82061	G09	BA5424	cold shock protein CspC	Chromosome (NC_003997)	NP_847592.1	258826
81950	G10	BA2579	hypothetical protein	Chromosome (NC_003997)	NP_844946.1	255758
82319	G11	BA0667	ribose ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_843195.2	263007
82296	G12	BA2509	transcriptional regulator/sugar-binding domain, LacI family	Chromosome (NC_003997)	NP_844881.1	259163
82101	H01	BA5607	hypothetical protein	Chromosome (NC_003997)	NP_847759.1	258882
82262	H02	BA5548	ATP synthase F1, gamma subunit	Chromosome (NC_003997)	NP_847706.1	259120

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
81889	H03	BA0839	ABC transporter, substrate-binding protein, putative	Chromosome (NC_003997)	NP_843355.1	253096
82201	H04	BA2690	hypothetical protein	Chromosome (NC_003997)	NP_845047.1	259042
82088	H05	BA2653	degV family protein	Chromosome (NC_003997)	NP_845015.1	258861
81917	H06	BA2632	cytochrome P450 family protein	Chromosome (NC_003997)	NP_844994.1	253592
82081	H07	BA5502	hypothetical protein	Chromosome (NC_003997)	NP_847662.1	258853
82283	H08	BA5457	transposase, IS605 family, OrfB	Chromosome (NC_003997)	NP_847625.1	259146
81877	H09	BA5421	preprotein translocase, SecA subunit	Chromosome (NC_003997)	NP_847590.1	248796
82189	H10	BA0691	membrane protein, putative	Chromosome (NC_003997)	NP_843218.1	259026
82043	H11	BA4884	hypothetical protein	Chromosome (NC_003997)	NP_847084.1	258802

Table 55: *Bacillus anthracis* Gateway® Clone, Plate 55 (QMG003419), NR-19779¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82062	A02	BA2025	hypothetical protein	Chromosome (NC_003997)	NP_844429.1	258827
82290	A03	BA0615	iron compound ABC transporter, iron compound-binding protein	Chromosome (NC_003997)	NP_843146.1	259156
81848	A04	BA4795	PHP domain protein	Chromosome (NC_003997)	NP_846998.1	245884
82240	A05	BA4325	membrane protein, putative	Chromosome (NC_003997)	NP_846558.1	259095
81928	A06	BA1858	major facilitator family transporter	Chromosome (NC_003997)	NP_844275.1	253838
82220	A07	BA2367	oxalate:formate antiporter, putative	Chromosome (NC_003997)	NP_844749.1	259069
81930	A08	BA0457	phage transcriptional regulator, ArpU family	Chromosome (NC_003997)	NP_842998.1	253887
81932	A09	BA4209	Ppx/GppA phosphatase family protein	Chromosome (NC_003997)	NP_846444.1	253908
82113	A10	BA4162	hypothetical protein	Chromosome (NC_003997)	NP_846400.1	258900
82204	A11	BA4134	prophage LambdaBa02, site-specific recombinase, phage integrase	Chromosome (NC_003997)	NP_846373.1	259047
82016	A12	BA4646	preprotein translocase, YajC subunit	Chromosome (NC_003997)	NP_846863.1	258699
81921	B01	BA2507	beta-lactamase	Chromosome (NC_003997)	NP_844879.1	253674
82269	B02	BA2020	oxidoreductase, aldo/keto reductase family	Chromosome (NC_003997)	NP_844424.1	259128
81847	B03	BA0602	lipoprotein, putative	Chromosome (NC_003997)	NP_843134.1	245855
82305	B04	BA4779	hypothetical protein	Chromosome (NC_003997)	NP_846984.1	259176
81964	B05	BA4321	hypothetical protein	Chromosome (NC_003997)	NP_846554.1	256160
81852	B06	BA0522	A/G-specific adenine glycosylase	Chromosome (NC_003997)	NP_843058.1	246222
82345	B07	BA2360	exonuclease, putative	Chromosome (NC_003997)	NP_844742.1	263076
82130	B08	BA0452	hypothetical protein	Chromosome (NC_003997)	NP_842992.1	258922
81933	B09	BA1853	dihydroxy-acid dehydratase	Chromosome (NC_003997)	NP_844270.1	253911
82346	B10	BA4157	pyruvate carboxylase	Chromosome (NC_003997)	NP_846395.1	263077
81978	B11	BA1751	asparagine synthetase, glutamine-hydrolyzing	Chromosome (NC_003997)	NP_844182.1	258647
81998	B12	BA4641	protein-export membrane protein SecDF	Chromosome (NC_003997)	NP_846858.1	258677

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
81960	C01	BA2504	penicillin-binding protein	Chromosome (NC_003997)	NP_844878.1	255988
81966	C02	BA2001	intracellular serine protease	Chromosome (NC_003997)	NP_844405.1	256170
82264	C03	BA4821	hypothetical protein	Chromosome (NC_003997)	NP_847024.1	259122
82354	C04	BA0553	acetyltransferase, GNAT family	Chromosome (NC_003997)	NP_843088.1	263097
82238	C05	BA4307	pyrimidine-nucleoside phosphorylase	Chromosome (NC_003997)	NP_846540.1	259092
82271	C06	BA0515	cell division inhibitor-like protein	Chromosome (NC_003997)	NP_843051.1	259130
82054	C07	BA4695	uroporphyrinogen-III synthase	Chromosome (NC_003997)	NP_846908.1	258818
82215	C08	BA2321	FtsK/SpoIIIE family protein	Chromosome (NC_003997)	NP_844706.1	259063
82243	C09	BA1835	sodium-dependent transporter	Chromosome (NC_003997)	NP_844254.1	259098
82252	C10	BA4155	protoheme IX farnesyltransferase	Chromosome (NC_003997)	NP_846393.1	259108
82325	C11	BA0083	hypothetical protein	Chromosome (NC_003997)	NP_842652.1	263027
81858	C12	BA0044	pur operon repressor PurR	Chromosome (NC_003997)	NP_842613.1	246965
82083	D01	BA2503	hypothetical protein	Chromosome (NC_003997)	NP_844877.1	258855
82115	D02	BA1997	mutT/nudix family protein	Chromosome (NC_003997)	NP_844402.1	258902
82230	D03	BA0597	transcriptional regulator/TPR domain protein	Chromosome (NC_003997)	NP_843130.1	259084
81994	D04	BA0548	sensory box/GGDEF family protein	Chromosome (NC_003997)	NP_843083.1	258673
82167	D05	BA4293	sodium-dependent symporter family protein	Chromosome (NC_003997)	NP_846526.1	258986
81971	D06	BA0514	chlorohydrolase family protein	Chromosome (NC_003997)	NP_843050.1	256308
82191	D07	BA4691	hypothetical protein	Chromosome (NC_003997)	NP_846904.1	259028
82322	D08	BA2316	hypothetical protein	Chromosome (NC_003997)	NP_844701.1	263016
81934	D09	BA1833	hypothetical protein	Chromosome (NC_003997)	NP_844252.1	253914
82287	D10	BA1786	lipoprotein, putative	Chromosome (NC_003997)	NP_844212.1	259152
81857	D11	BA0082	DNA-binding protein, putative	Chromosome (NC_003997)	NP_842651.1	246924
81859	D12	BA0410	heavy metal-transporting ATPase	Chromosome (NC_003997)	NP_842954.1	247046
82143	E01	BA2501	lipase/acylhydrolase, putative	Chromosome (NC_003997)	NP_844875.1	258941
82039	E02	BA0636	CAAX amino terminal protease family protein	Chromosome (NC_003997)	NP_843167.1	258798
82241	E03	BA2463	PTS system, cellobiose-specific IIC component, putative	Chromosome (NC_003997)	NP_844839.1	259096
81991	E04	BA4767	iron compound ABC transporter, permease protein	Chromosome (NC_003997)	NP_846973.1	258669
81851	E05	BA1936	branched-chain amino acid ABC transporter, permease protein	Chromosome (NC_003997)	NP_844345.1	246128
81982	E06	BA2390	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_844768.1	258656
82008	E07	BA4690	valyl-tRNA synthetase	Chromosome (NC_003997)	NP_846903.1	258691
81931	E08	BA4659	lysM domain protein	Chromosome (NC_003997)	NP_846874.1	253892
82235	E09	BA4182	pyruvate dehydrogenase complex E2 component, dihydrolipoamide acetyltransferase	Chromosome (NC_003997)	NP_846419.1	259089
81979	E10	BA4153	cytochrome c oxidase, subunit I	Chromosome (NC_003997)	NP_846391.2	258651
82097	E11	BA0059	cell division protein DivIC	Chromosome (NC_003997)	NP_842628.1	258876
82268	E12	BA0040	yabG protein	Chromosome (NC_003997)	NP_842609.1	259127
82024	F01	BA2067	hypothetical protein	Chromosome (NC_003997)	NP_844467.1	258710

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
81922	F02	BA0635	spore germination protein GerKA	Chromosome (NC_003997)	NP_843166.1	253725
82320	F03	BA0584	sensor histidine kinase	Chromosome (NC_003997)	NP_843118.1	263009
82035	F04	BA0544	hypothetical protein	Chromosome (NC_003997)	NP_843079.1	258791
81926	F05	BA4267	phosphoenolpyruvate-protein phosphotransferase	Chromosome (NC_003997)	NP_846501.1	253826
81929	F06	BA4724	germination protein GerE	Chromosome (NC_003997)	NP_846935.1	253852
82095	F07	BA0472	hypothetical protein	Chromosome (NC_003997)	NP_843011.1	258872
82082	F08	BA2307	protein kinase domain protein	Chromosome (NC_003997)	NP_844692.1	258854
82232	F09	BA1817	N-acetylmuramoyl-L-alanine amidase, family 3	Chromosome (NC_003997)	NP_844238.1	259086
82019	F10	BA4142	hypothetical protein	Chromosome (NC_003997)	NP_846380.1	258702
82021	F11	BA0056	S4 domain protein	Chromosome (NC_003997)	NP_842625.1	258705
82064	F12	BA4634	hypothetical protein	Chromosome (NC_003997)	NP_846851.1	258829
82128	G01	BA2065	hypothetical protein	Chromosome (NC_003997)	NP_844465.1	258919
81973	G02	BA4843	pyruvate kinase	Chromosome (NC_003997)	NP_847046.1	258641
82356	G03	BA0582	transcriptional regulator, GntR family	Chromosome (NC_003997)	NP_843116.1	263101
81924	G04	BA4328	hypothetical protein	Chromosome (NC_003997)	NP_846561.1	253774
81925	G05	BA1903	peptidase, M23/M37 family	Chromosome (NC_003997)	NP_844314.1	253825
81853	G06	BA2374	drug resistance transporter, EmrB/QacA family	Chromosome (NC_003997)	NP_844756.1	246422
82015	G07	BA0469	hypothetical protein	Chromosome (NC_003997)	NP_843008.1	258698
82247	G08	BA2294	aminotransferase, class III	Chromosome (NC_003997)	NP_844679.1	259102
82225	G09	BA1811	aspartate kinase, monofunctional class	Chromosome (NC_003997)	NP_844233.1	259076
82124	G10	BA4139	phosphopantetheine adenylyltransferase	Chromosome (NC_003997)	NP_846378.1	258913
81936	G11	BA4651	Holliday junction DNA helicase RuvA	Chromosome (NC_003997)	NP_846868.1	253990
82032	G12	BA4629	prespore-specific transcriptional regulator rsfA, putative	Chromosome (NC_003997)	NP_846847.1	258787
81846	H01	BA2049	polysaccharide biosynthesis family protein	Chromosome (NC_003997)	NP_844451.1	245703
82107	H02	BA4842	fxsA cytoplasmic membrane protein, putative	Chromosome (NC_003997)	NP_847045.1	258891
82004	H03	BA4803	phenylalanyl-tRNA synthetase, beta subunit	Chromosome (NC_003997)	NP_847006.1	258684
82321	H04	BA4326	sugar-binding transcriptional regulator, LacI family, putative	Chromosome (NC_003997)	NP_846559.1	263012
82205	H05	BA1875	coenzyme PQQ synthesis protein, putative	Chromosome (NC_003997)	NP_844291.1	259049
82307	H06	BA4716	germination protein gerM	Chromosome (NC_003997)	NP_846928.1	259181
82040	H07	BA4681	septum site-determining protein MinC	Chromosome (NC_003997)	NP_846895.1	258799
82055	H08	BA2292	hypothetical protein	Chromosome (NC_003997)	NP_844677.1	258819
81935	H09	BA4172	lysine decarboxylase	Chromosome (NC_003997)	NP_846410.1	253961
82323	H10	BA4138	membrane protein, putative	Chromosome (NC_003997)	NP_846377.1	263022
81937	H11	BA0054	stage V sporulation protein B, putative	Chromosome (NC_003997)	NP_842623.1	253991

Table 56: *Bacillus anthracis* Gateway® Clone, Plate 56 (QM003420), NR-19780¹

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82031	A02	BA4611	O-methyltransferase family protein	Chromosome (NC_003997)	NP_846830.1	258786
82326	A03	BA4583	tolB domain protein	Chromosome (NC_003997)	NP_846804.1	263029
82077	A04	BA2187	hypothetical protein	Chromosome (NC_003997)	NP_844579.1	258847
82237	A05	BA1681	flagellum-specific ATP synthase, putative	Chromosome (NC_003997)	NP_844124.1	259091
82066	A06	BA1655	hypothetical protein	Chromosome (NC_003997)	NP_844102.1	258831
82328	A07	BA4541	heat-inducible transcription repressor HrcA	Chromosome (NC_003997)	NP_846764.1	263033
82075	A08	BA4500	hypothetical protein	Chromosome (NC_003997)	NP_846725.1	258844
82139	A09	BA4030	pyrimidine operon regulatory protein	Chromosome (NC_003997)	NP_846271.1	258936
82350	A10	BA3986	chromosome segregation SMC protein	Chromosome (NC_003997)	NP_846228.1	263088
82334	A11	BA1546	menaquinol-cytochrome c reductase, cytochrome b/c subunit	Chromosome (NC_003997)	NP_843996.1	263050
82123	A12	BXB0065	capsule biosynthesis protein CapC	pOX2 (NC_003981)	NP_653032.1	258912
82208	B01	BA4626	aminotransferase, class V	Chromosome (NC_003997)	NP_846844.1	259054
82280	B02	BA4610	peptidase, U32 family	Chromosome (NC_003997)	NP_846829.2	259143
82176	B03	BA0365	Rieske 2Fe-2S iron-sulfur protein, putative	Chromosome (NC_003997)	NP_842910.1	258998
82348	B04	BA2181	isoleucyl-tRNA synthetase	Chromosome (NC_003997)	NP_844574.1	263081
81943	B05	BA4054	sporulation specific penicillin-binding protein	Chromosome (NC_003997)	NP_846294.1	254089
82120	B06	BA4038	ylmF protein	Chromosome (NC_003997)	NP_846278.1	258908
82200	B07	BA4538	chaperone protein dnaJ	Chromosome (NC_003997)	NP_846761.1	259041
82002	B08	BA4491	nucleotidyl transferase family protein	Chromosome (NC_003997)	NP_846716.1	258682
81861	B09	BA4018	membrane protein, putative	Chromosome (NC_003997)	NP_846260.1	247481
82211	B10	BA3974	succinyl-CoA synthase, beta subunit	Chromosome (NC_003997)	NP_846216.1	259057
82174	B11	BXB0097	FunZ family protein	pOX2 (NC_003981)	NP_653059.1	258996
82351	B12	BXB0004	hypothetical protein BXB0004	pOX2 (NC_003981)	NP_652974.1	263091
81940	C01	BA0401	tellurium resistance protein	Chromosome (NC_003997)	NP_842945.1	254024
82033	C02	BA2257	nitroreductase family protein	Chromosome (NC_003997)	NP_844647.1	258788
81855	C03	BA2235	hypothetical protein	Chromosome (NC_003997)	NP_844626.1	246772
81989	C04	BA2179	hypothetical protein	Chromosome (NC_003997)	NP_844572.1	258665
81953	C05	BA4053	UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate ligase	Chromosome (NC_003997)	NP_846293.1	255797
82011	C06	BA4034	isoleucyl-tRNA synthetase	Chromosome (NC_003997)	NP_846274.1	258694
82251	C07	BA4535	hypothetical protein	Chromosome (NC_003997)	NP_846758.1	259107
82178	C08	BA0267	chaperonin, 60 kDa	Chromosome (NC_003997)	NP_842820.1	259004
82330	C09	BA4013	fibronectin/fibrinogen-binding protein, putative	Chromosome (NC_003997)	NP_846255.1	263039
82207	C10	BA1584	hypothetical protein	Chromosome (NC_003997)	NP_844033.1	259053
82069	C11	BXB0021	hypothetical protein BXB0021	pOX2 (NC_003981)	NP_652991.1	258836
82012	C12	BXB0028	hypothetical protein BXB0028	pOX2 (NC_003981)	NP_652998.1	258695
82293	D01	BA0028	DNA polymerase III, delta prime subunit	Chromosome (NC_003997)	NP_842598.1	259160

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
81938	D02	BA0383	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_842927.1	254000
81941	D03	BA2228	ABC transporter, ATP-binding protein	Chromosome (NC_003997)	NP_844619.1	254030
82196	D04	BA4129	hypothetical protein	Chromosome (NC_003997)	NP_846368.1	259037
82216	D05	BA4045	cell division protein FtsZ	Chromosome (NC_003997)	NP_846285.1	259065
82327	D06	BA1652	permease, putative	Chromosome (NC_003997)	NP_844099.1	263032
82349	D07	BA0306	DNA ligase, NAD-dependent	Chromosome (NC_003997)	NP_842855.1	263085
82172	D08	BA4472	hypothetical protein	Chromosome (NC_003997)	NP_846697.1	258993
82228	D09	BA1614	membrane protein, putative	Chromosome (NC_003997)	NP_844062.1	259081
82093	D10	BA3951	ribosomal protein L7A family	Chromosome (NC_003997)	NP_846194.1	258867
81980	D11	BXB0015	conjugation protein	pOX2 (NC_003981)	NP_652985.1	258652
82260	D12	BXB0101	site-specific recombinase	pOX2 (NC_003981)	NP_653063.1	259118
81856	E01	BA0396	prolyl-tRNA synthetase	Chromosome (NC_003997)	NP_842940.1	246774
82249	E02	BA0378	anaerobic C4-dicarboxylate membrane transporter	Chromosome (NC_003997)	NP_842922.1	259104
81942	E03	BA2214	hypothetical protein	Chromosome (NC_003997)	NP_844606.1	254049
82017	E04	BA4111	prophage LambdaBa02, membrane protein, putative	Chromosome (NC_003997)	NP_846350.1	258700
82253	E05	BA4044	sporulation sigma-E factor processing peptidase	Chromosome (NC_003997)	NP_846284.1	259110
82134	E06	BA1645	hypothetical protein	Chromosome (NC_003997)	NP_844092.2	258930
82329	E07	BA0295	Amidophosphoribosyltransferase	Chromosome (NC_003997)	NP_842845.1	263036
82157	E08	BA4469	sodium:dicarboxylate symporter family protein	Chromosome (NC_003997)	NP_846695.1	258966
82029	E09	BA1612	capsular polysaccharide biosynthesis glycosyltransferase, putative	Chromosome (NC_003997)	NP_844060.1	258784
82291	E10	BA3946	riboflavin biosynthesis protein RibC	Chromosome (NC_003997)	NP_846190.1	259157
82259	E11	BXB0014	hypothetical protein BXB0014	pOX2 (NC_003981)	NP_652984.1	259117
82250	F01	BA0394	type I phosphodiesterase/nucleotide pyrophosphatase family protein	Chromosome (NC_003997)	NP_842938.1	259105
81997	F02	BA0375	DNA topoisomerase III	Chromosome (NC_003997)	NP_842919.1	258676
82136	F03	BA2208	hypothetical protein	Chromosome (NC_003997)	NP_844600.1	258932
82353	F04	BA1736	ABC transporter, permease protein, putative	Chromosome (NC_003997)	NP_844171.1	263095
82068	F05	BA4042	RNA polymerase sigma-G factor	Chromosome (NC_003997)	NP_846282.1	258835
82148	F06	BA1642	MATE efflux family protein, putative	Chromosome (NC_003997)	NP_844089.1	258950
82106	F07	BA4514	cytochrome c-550	Chromosome (NC_003997)	NP_846738.1	258889
82221	F08	BA0242	homogentisate 1, 2-dioxygenase, putative	Chromosome (NC_003997)	NP_842796.1	259071
82294	F09	BA3991	fatty acid/phospholipid synthesis protein PlsX	Chromosome (NC_003997)	NP_846233.1	259161
81987	F10	BA0005	DNA gyrase, B subunit	Chromosome (NC_003997)	NP_842577.1	258663
82013	F11	BXB0013	membrane protein	pOX2 (NC_003981)	NP_652983.1	258696
82183	G01	BA0019	DNA polymerase III, gamma and tau subunits	Chromosome (NC_003997)	NP_842590.1	259011
82347	G02	BA0374	hypothetical protein	Chromosome (NC_003997)	NP_842918.1	263080

Clone	Well Position	Locus ID	Description	Source	Accession Number	FLEX Clone ID
82224	G03	BA0329	aminopeptidase AmpS	Chromosome (NC_003997)	NP_842876.1	259075
81956	G04	BA1692	hypothetical protein	Chromosome (NC_003997)	NP_844132.1	255867
82182	G05	BA1662	flagellar motor switch protein, putative	Chromosome (NC_003997)	NP_844108.1	259010
82173	G06	BA1635	sodium/solute symporter family protein	Chromosome (NC_003997)	NP_844082.1	258995
82209	G07	BA0289	phosphoribosylaminoimidazole carboxylase, ATPase subunit	Chromosome (NC_003997)	NP_842839.1	259055
82034	G08	BA4459	prolyl 4-hydroxylase, alpha subunit domain protein	Chromosome (NC_003997)	NP_846685.1	258789
82051	G09	BA1609	chain length determinant protein	Chromosome (NC_003997)	NP_844057.1	258812
82185	G10	BA3933	metallo-beta-lactamase family protein	Chromosome (NC_003997)	NP_846177.1	259018
82046	G11	BXB0009	hypothetical protein BXB0009	pOX2 (NC_003981)	NP_652979.1	258806
81939	H01	BA4612	conserved hypothetical protein TIGR00247	Chromosome (NC_003997)	NP_846831.1	254014
82352	H02	BA0371	glycosyl hydrolase family protein	Chromosome (NC_003997)	NP_842915.1	263093
82151	H03	BA0326	sensory box sigma-54 dependent DNA-binding response regulator	Chromosome (NC_003997)	NP_842873.1	258958
82086	H04	BA1684	hypothetical protein	Chromosome (NC_003997)	NP_844126.1	258858
82132	H05	BA1656	host factor-I protein	Chromosome (NC_003997)	NP_844103.1	258925
82027	H06	BA1633	fatty acid hydroxylase-like protein	Chromosome (NC_003997)	NP_844080.1	258781
82285	H07	BA0286	sensor histidine kinase, putative	Chromosome (NC_003997)	NP_842836.1	259149
81954	H08	BA4450	helicase, putative	Chromosome (NC_003997)	NP_846678.1	255818
81951	H09	BA1608	acyltransferase family protein	Chromosome (NC_003997)	NP_844056.1	255764
82333	H10	BA1548	membrane protein, putative	Chromosome (NC_003997)	NP_843998.1	263048
82142	H11	BXB0073	signal peptidase I	pOX2 (NC_003981)	NP_653038.1	258940

Table 57: *Bacillus anthracis* Gateway® Clone, Plate 57 (QMG006573), NR-19781¹

Table 58: *Bacillus anthracis* Gateway® Clone, Plate 58 (QMG006574), NR-19782¹

¹All information in this table was provided by J. Craig Venter Institute at the time of deposition

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