

Influenza A Gateway® Clone Set, Recombinant in *Escherichia coli*

Catalog No. NR-19436

Table 1: Influenza A Gateway® Clones

Clone	ORF Lengths	Locus ID	Average Depth of Coverage	Class <sup>1</sup>
65691	793	CY021806.1	1.544766709	BLM
63891	1689	CY020517.1	2.251036116	BLM
65845	793	CY020518.1	2	A
65735	697	CY020521.1	2	A
65127	1729	CY020765.1	4.546558704	BLM
65163	1531	CY020768.1	2.948399739	A1
65423	1447	CY020767.1	1.362128542	BSC
65777	727	CY020769.1	2	A
64031	2280	CY020868.1	18.86798246	BLM
66640	2308	CY020867.1	3.055025997	BSC
66366	1735	CY020861.1	3.931988473	BSC
66164	1447	CY020863.1	1.205943331	A1
66126	793	CY020862.1	2	BLM
65017	727	CY020865.1	2	BLM
66119	1447	CY022623.1	1.350380097	BLM
65055	793	CY022622.1	2	A
66323	1723	CY022693.1	4.71677307	BLM
64910	1531	CY022696.1	1.16525147	BLM
65472	793	CY022694.1	2	A
65669	1717	CY024818.1	4.709959231	BLM
65787	793	CY024819.1	1.586380832	BSC
65921	1735	CY017749.1	4.647838617	BLM
66069	1531	CY017752.1	4.828216852	A
65847	1447	CY017751.1	1.309606082	BLM
64965	727	CY017753.1	2	BLM
64121	1701	CY021477.1	11.95002939	BLM
66691	1531	CY021480.1	3.755062051	BLM
65086	793	CY021478.1	2	BSC
66205	727	CY021481.1	2	A
64144	1497	CY015487.1	10.01002004	BSC
66304	1531	CY015487.1	4.70346179	BLM
65033	1456	CY015486.1	4.04532967	A
65840	727	CY015488.1	2	A
63548	1567	CY022720.1	11.07211232	A
65335	1447	CY022719.1	1.362128542	BLM
65441	1444	CY021431.1	1.399584488	BLM
65069	793	CY021430.1	2	BLM
65440	727	CY021433.1	-	A1
63898	2274	CY017281.1	5.461741425	BLM
66028	1735	CY017275.1	4.591354467	BLM
64922	1531	CY017278.1	4.882429784	BLM
65088	793	CY017276.1	1.963430013	BSC
66616	727	CY017279.1	4.206327373	A
65881	1723	CY021125.1	4.891468369	A
63669	1457	CY021127.1	8.164722032	A
65025	793	CY021126.1	2	A
65863	727	CY021129.1	2	A
64054	2274	CY021627.1	5.045734389	BLM
64999	793	CY021622.1	2	A

Clone	ORF Lengths	Locus ID	Average Depth of Coverage	Class <sup>1</sup>
65369	727	CY021625.1	2	A
64238	2280	CY020748.1	7.487719298	BLM
63956	1766	CY020741.1	9.879388448	A
65795	1447	CY020743.1	1.362819627	BLM
64963	793	CY020742.1	2	BSC
65344	727	CY020745.1	-	A1
65827	1447	CY020855.1	3.713890809	BSC
65769	793	CY020854.1	2	A
65466	727	CY020857.1	2	A
65019	793	CY020782.1	2	A
65831	727	CY020785.1	2	A
64148	2274	CY020795.1	6.440633245	CHM
65991	1729	CY020789.1	4.652400231	BLM
63808	1555	CY020792.1	9.88681672	A
63843	1413	CY020791.1	20.80820948	BLM
66678	793	CY020790.1	1.868852459	BLM
63948	2280	CY020812.1	9.195614035	BLM
66598	2308	CY020811.1	3.613518198	BLM
65006	793	CY020806.1	2	BLM
65345	727	CY020809.1	2	BLM
64076	2326	CY016649.1	5.793277311	D
65304	1447	CY016645.1	1.317208017	BSC
65779	793	CY016644.1	2	A
65092	727	CY016647.1	2	A
66085	1444	CY016629.1	1.334487535	BLM
65067	793	CY016628.1	2	A
65293	727	CY016631.1	2	BSC
63813	924	CY001425.1	11.49190939	CFC
63908	2280	CY001687.1	7.627631579	BLM
64142	2151	CY001685.1	9.915853092	BLM
63780	1401	CY001682.2	10.5267666	BLM
65793	1531	CY017792.1	1.201175702	BLM
64286	1410	CY017791.1	7.75248227	BLM
65783	793	CY017790.1	2	BSC
65022	727	CY017793.1	2	A
65797	793	CY022646.1	2	BSC
64962	727	CY022649.1	2	A
64275	759	CY012113.1	7.971014493	BSC

**A:** Full-length sequence validation, 2X or greater coverage, 100% sequence identity with the reference ORF.

**A1:** Full-Length sequence validation - 1X or greater sequence coverage, 100% sequence identity with the reference ORF.

**BLM:** B class clone with substitutions in CDS only at ≤ 0.2% mutation rate.

**BSC:** B class clone with substitutions in CDS only leading to silent mutations.

**C:** Full-length sequence validation - sequence variation (less than 100% sequence identity with the reference ORF); becomes invalid.

**CFC:** C class clone with frameshift mutations in CDS only.

**CHM:** C class clone with substitutions in CDS only at >0.2% mutation rate.

**D:** Partial sequence validation - single contig with missing end-sequence (less than 90% sequence identity with the reference ORF).