

2009 H1N1 Gateway® Clone Set, Recombinant in *Escherichia coli*

Catalog No. NR-19271

Table 1: 2009 H1N1 Gateway® Clones

Clone	ORF Lengths	Description	Average Depth of Coverage	Class <sup>1</sup>
79143	331	CDS(M2)_MP-NY1682	5.5	A
79114	733	CDS(NS1)_NS-NY1682	7.0	A
79154	933	NS-seg8-NY1682	8.1	CSPT
79094	1070	MP-seg7-NY1682	8.3	CSPT
79177	1366	CDS(-TM)_NA-NY1682	8.6	BSC
79147	1450	wholeCDS_NA-NY1682	8.2	BSC
79186	1501	NA-seg6-NY1682	8.1	CSPT
79140	2191	CDS_PA-NY1682	5.5	A
79179	2320	CDS_PB2-NY1682	8.4	BLM
79067	331	CDS(M2)_MP-NY1669	5.7	A
79032	406	CDS(NS2)_NS-NY1669	5.3	A
79035	1070	MP-seg7-NY1669	8.3	CSPT
79039	1608	NP-seg5-NY1669	8.6	CSPT
79263	406	CDS(NS2)_NS-NY1682	5.0	A
79294	799	CDS(M1)_MP-NY1682	6.9	A
79302	1821	HA-seg4-NY1682	8.5	CFC
79287	799	CDS(M1)_MP-NY1669	6.9	A
79215	933	NS-seg8-NY1669	8.0	CSPT
81821	733	CDS(NS1)_NS-NY1682	2.0	A
82466	1608	NP-seg5-NY1682	7.4	CSPT
82469	1633	CDS(-TM)_HA-NY1682	7.7	CFM
82475	1741	wholeCDS_HA-NY1682	6.0	BLM
82481	2314	CDS_PB1-NY1682	5.5	BLM
82485	733	CDS(NS1)_NS-NY1669	5.1	A
82489	2384	PB2-seg1-NY1682	5.4	CSPT
82494	1450	wholeCDS_NA-NY1669	5.2	A
82500	1501	NA-seg6-NY1669	6.7	CSPT

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

**B:** Full-length sequence validation, sequence variation (less than 100% sequence identity with the reference ORF); remains valid.

**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.

**CFM:** C class clone with frameshift mutations in two or more regions (ATT, CDS, and stop codon) of the validated sequence.

**CSPT:** C class clone with substitution resulting in truncated protein (nonsense mutation).