

Supplementary Table S1: Chimeric renilla luciferase reporter virus constructs used in this study.

Short name	Neutralization cluster	GenBank Accession (reporter virus)	Long name	Publication (reporter virus)	GenBank Accession (E1/E2 sequence)	Publication (E1/E2 sequence)
GT1a (H77)	4	MT955901	H77c/1a/R2a	[1]	NC_038882.1	[2]
GT1b (J4)	4	MT955902	J4/1b/R2a	[1]	AF054247.1	[3]
GT1b (Con1)	1	MT955903	Con1/1b/R2a	[1]	AJ238799.1	[4]
GT2a (J6)	6	MT955904	JcR-2a	[5]	NC_009823.1	[6]
GT2a (2a-3)	3	MT955905	2a-3/2a/R2a	This study	KM361734.1	[7]
GT2b (J8)	1	MT955906	J8/2b/R2a	[1]	JQ745651.1	[8]
GT2b (2b-4)	3	MT955907	2b-4/2b/R2a	This study	KM361730.1	[7]
GT2b (2b-5)	1	MT955908	2b-5/2b/R2a	This study	KM361731.1	[7]
GT2k (2k)	2	MT955909	2k/2k/R2a	This study	AB031663.1	[9]
GT2r (2r)	2	MT955910	2r/2r/R2a	This study	JF735115.1	[10]
GT3a (S52)	1	MT955911	S52/3a/R2a	[1]	GU814264.1	[11]
GT4a (ED43)	4	MT955912	ED43/4a/R2a	[1]	EU363760.1	[12]
GT5a (SA13)	5	MT955913	SA13/5a/R2a	[1]	MH427311.1	[13]