

# Clinical and Molecular Characteristics of Human Rotavirus G8P[8] Outbreak Strain, Japan, 2014

## Technical Appendix

**Technical Appendix Table 1.** Distribution of G/P genotype combinations detected in Hokkaido, Japan in 2014

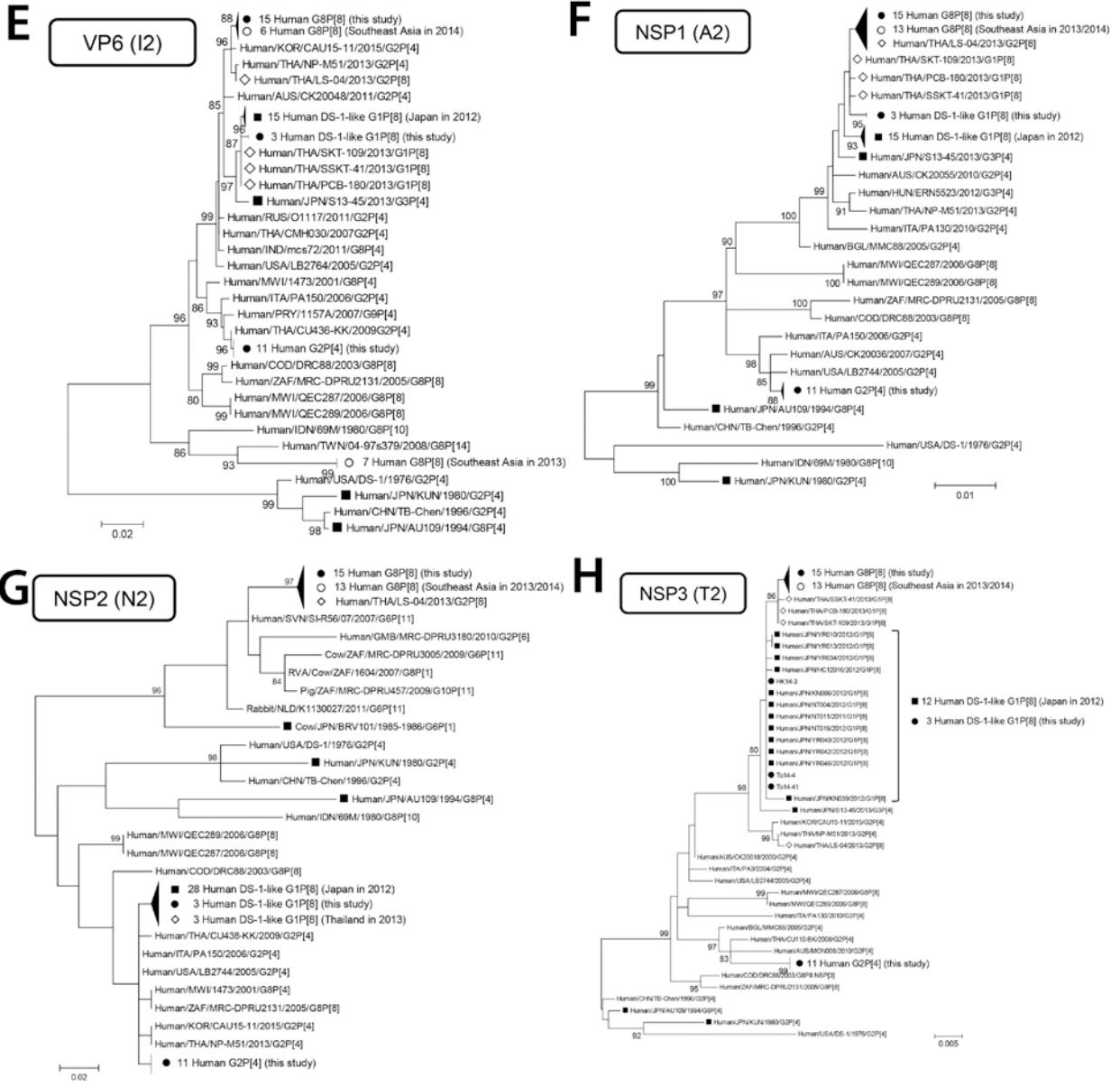
City	No. (%) typeable sample	G8P[8]	G1P[8]	G9P[8]	G2P[4]	Mixed*
Tomakomai	84	42 (50.0)	18 (21.4)	20 (23.8)	2 (2.4)	2 (2.4)
Urakawa	20	11 (55.0)	1 (5.0)	8 (40.0)	0	0
Muroran	17	3 (17.6)	4 (23.5)	0	9 (52.9)	1 (5.9)
Sapporo	27	2 (7.4)	15 (55.6)	2 (7.4)	8 (29.6)	0
Total	148	58 (39.2)	38 (25.7)	30 (20.3)	19 (12.8)	3 (2.0)

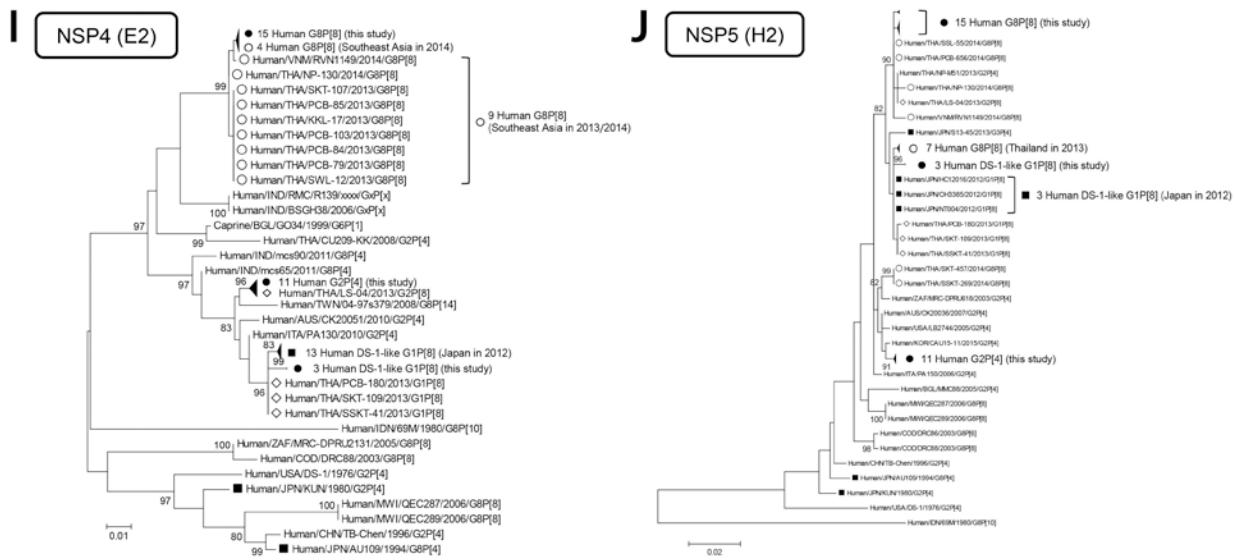
\*Mixed infections: Tomakomai, G1P[8]+G9P[8]; Muroran, G2P[4]+G9P[8].

**Technical Appendix Table 2.** Nucleotide identities (%) at each genome segment of G8P[8] strains from this study compared with To14-0 (the representative G8P[8] strain in this study)

Location, strain name	VP7	VP4	VP6	VP1	VP2	VP3	NSP1	NSP2	NSP3	NSP4	NSP5
Tomakomai											
To14-0	100	100	100	100	100	100	100	100	100	100	100
To14-2	99.9	100	100	99.9	100	99.9	100	100	99.9	100	100
To14-14	99.9	99.9	99.9	100	100	100	100	100	99.9	100	100
To14-36	99.8	100	100	99.9	100	99.9	99.9	100	99.9	99.8	99.7
TKC14-6	99.9	99.6	100	100	99.9	100	100	99.8	99.9	100	100
TKC14-16	99.9	99.6	99.9	99.8	99.9	100	99.8	100	99.8	99.9	99.7
TKC14-37	99.9	99.6	100	99.9	100	99.9	100	100	99.8	99.9	100
Muroran											
MU14-0	99.9	99.6	99.9	100	100	99.9	100	99.9	99.9	99.9	100
MU14-2	99.9	99.9	100	99.9	100	100	99.9	99.9	99.8	99.7	100
MU14-3	99.9	99.6	99.9	99.7	100	99.9	100	100	99.9	100	99.6
Urakawa											
UR14-10	99.9	100	100	100	100	100	100	100	99.9	100	100
UR14-14	99.9	100	99.8	100	100	99.9	100	99.9	99.9	100	99.9
UR14-29	99.9	99.9	99.8	99.9	100	99.8	99.9	99.9	99.9	100	100
Sapporo											
N14-22	99.9	100	100	100	100	100	99.9	99.9	100	100	100
HK14-2	99.9	99.7	99.7	99.9	100	100	99.9	99.8	99.9	100	100







**Technical Appendix Figure.** Phylogenetic analyses of rotavirus genome segments. Phylogenetic trees of the VP1–3 (A–C), VP4 (D), VP6 (E), NSP1–5 (F–J) genes of the human strains sequenced in this study (closed circles) and other reference strains. The human Southeast Asian G8P[8] strain, the human Southeast Asian DS-1-like P[8] strains, and the Japanese strains are indicated by an open circle, open diamond, and closed box, respectively. A Tamura 3-parameter model was used for the maximum-likelihood method. Bootstrap values are shown at the branch nodes (values of <80% are not shown). The scale bars indicate genetic distance.