

1. Phylogenetic analysis of influenza A(H1N1)pdm09 HA genes

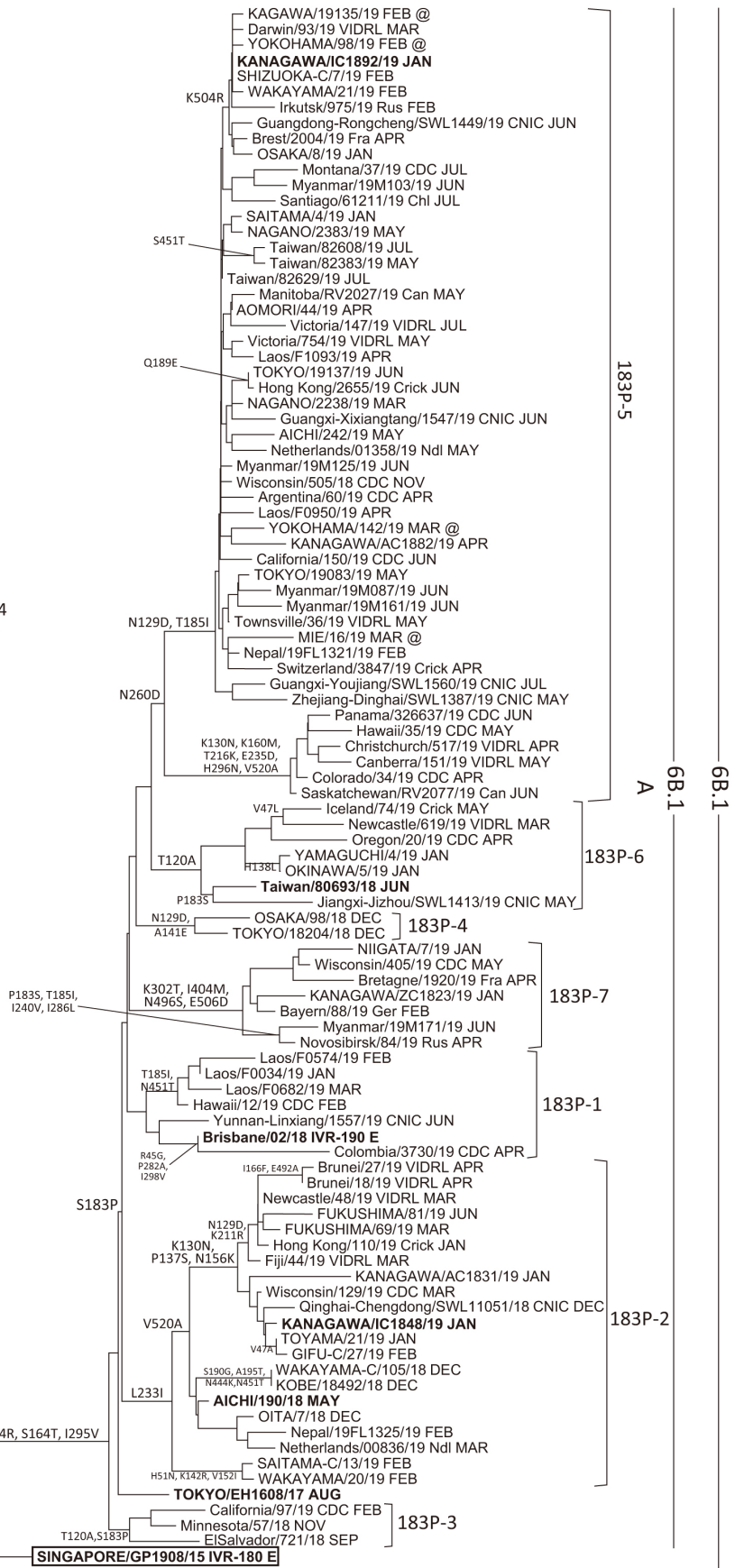
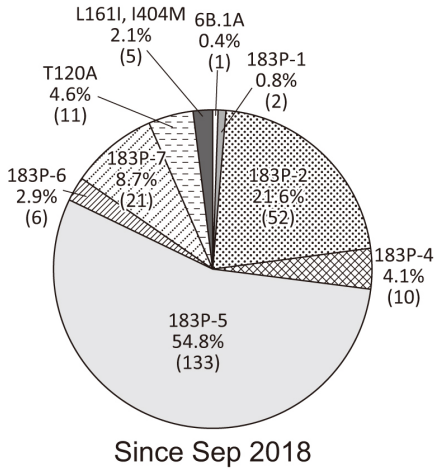
18/19 vaccine strain

HI reference strain

@: oseltamivir resistant

Subclades and AA changes

- 183P-1: S183P + N451T/S183P+R45G+P282A+I298V
- 183P-2: S183P + L233I
- 183P-3: S183P + T120A
- 183P-4: S183P + N129D+A141E
- 183P-5: S183P + N260D
- 183P-6: S183P + T120A
- 183P-7: S183P + K302T+I404M



0.005

