

**Supplementary Table 7.** Rejection of the null hypothesis of clonal evolution in latent and rebound sequences in the 3SEQ recombination algorithm

ID	p-value	Significant for multiple comparisons	Source of parent sequences for recombination	NFL available
601	3.79E-21	Yes	Q <sup>2</sup> VOA, Rebound SGA	No
602	1.65E-07	Yes	Q <sup>2</sup> VOA	Yes
603	4.23E-02	No	N/A	Yes
605	3.20E-20	Yes	Q <sup>2</sup> VOA, Rebound SGA	No
608	1.32E-40	Yes	Q <sup>2</sup> VOA, Rebound SGA	No
609	5.35E-04	Yes	Q <sup>2</sup> VOA, Rebound SGA	No
610	1.15E-01	No	N/A	Yes
611	1.20E-19	Yes	Q <sup>2</sup> VOA, NFL, Rebound SGA	Yes
613	3.23E-06	Yes	Q <sup>2</sup> VOA, NFL	Yes

NFL = Near full-length