**S4 Table. Parameters used to evaluate the fitness of each maturation pathway derived from light chain sequences.**

|  |  |  |  |
| --- | --- | --- | --- |
| **ML tree** | **Number****Intermediates** | **Number****Reversionsa** | **Number****NVJ additionsb** |
| VJ tree | 7 | 2 | 1 |
| L3 signature tree | 4 | 1 | 14 |

a The number of reversions was determined with respect to the UCA and computed using nucleotide sequences.

b NVJ additions were determined for each UCA using JOINSOLVER (see methods).