Sequence Identity (%)

**Paratope Sequence Identity Matrix** CTLA-4 | 5xj3 ID 1 CTLA-4 | 5ggv | 44 | 33 | 22 | 23 | 33 | 33 | 22 | 33 | 56 | 60 | 50 | 56 | 22 | 44 | 33 | 33 | 55 | 56 | 33 | 22 | 44 | 44 | 40 | 33 | 33 | 45 | 50 | 45 | 44 <mark>100</mark> 56 71 25 43 29 44 31 43 56 43 38 44 30 30 33 29 57 57 25 27 44 50 25 33 29 30 43 38 27 30 27 33 CTLA-4 | 6rp8\_ID\_1 44 56 56 100 78 33 44 44 44 31 44 56 33 33 56 30 30 33 22 44 44 44 36 33 44 44 44 50 44 33 27 30 27 44 33 50 22 CTLA-4 | 6rp8 ID 2 71 78 100 33 43 57 44 31 57 33 43 25 56 30 30 33 29 43 57 38 27 30 50 44 43 30 57 38 27 30 27 44 43 40 25 33 36 40 36 38 38 CTLA-4 | 5tru\_ID\_1 | 100 | 42 | 50 | 17 | 31 | 33 | 25 | 42 | 33 | 33 | 25 | 17 | 33 | 17 | 25 | 33 | 33 | 33 | 25 | 25 | 42 | 25 | 25 | 42 | 25 | 33 | 25 | 25 | 17 | CTLA-4 | 7su0\_ID\_1 17 33 25 33 33 33 42 25 CTLA-4 | 5xj3 ID 2 100 33 31 57 22 57 38 44 20 20 22 29 29 29 43 50 18 22 38 62 33 43 50 43 38 18 20 18 22 29 30 25 44 36 50 27 25 31 29 43 43 43 43 CTLA-4 | 5xi3 ID 3 57 | 33 | 29 | 44 | 57 | 50 | 57 CTLA-4 | 9dq3 69 100 23 46 23 23 31 31 23 23 15 15 38 15 23 23 23 23 23 31 23 23 23 31 23 31 23 31 23 31 23 31 23 CTLA-4 | 9dq4 15 | 23 | 31 | 31 | 31 | 31 | 31 | 31 100 33 50 38 44 20 20 22 33 43 43 38 27 44 38 38 44 50 30 43 38 18 20 18 33 43 30 25 33 27 50 | 33 | 43 | 44 | 57 | 33 | 43 | 57 | 33 | 23 CTLA-4 | 5xj3\_ID\_4 
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CTLA-4 | 5tru ID 2 33 | 33 | 56 | 56 | 33 | 25 | 33 | 22 | 44 | 46 | 33 | 50 | 22 | 43 | 33 | 43 | 42 | 29 | 57 | 33 | 23 | 50 | 33 <mark>100</mark> 50 33 10 10 11 17 29 57 38 9 22 38 38 22 33 30 43 38 9 10 29 30 12 33 36 50 27 31 31 29 50 43 43 CTLA-4 | 7su1 100 33 20 20 22 12 25 38 25 18 33 25 25 38 25 38 33 25 25 33 25 33 25 30 25 50 18 20 18 22 38 30 25 33 27 40 27 25 23 25 25 38 38 38 CTLA-4 | 7su0 ID 2 20 60 30 30 30 25 20 20 30 31 20 20 10 20 30 31 20 20 30 30 20 30 30 20 36 40 20 20 20 20 40 20 20 PD-1 | 5b8c\_ID\_1 73 | 60 | 64 | 40 | 20 | 20 | 20 | 20 | 50 | 30 | 30 | 30 | 17 | 20 | 20 | 30 | 23 | 20 | 10 | 10 | 20 | 30 | PD-1 | 5ggs ID 1 70 100 70 30 30 30 30 20 36 40 20 20 20 20 20 50 20 20 64 70 64 40 20 20 20 30 18 30 36 31 31 30 20 30 20 PD-1 | 5b8c ID 2 40 | 22 | 29 | 22 | 29 | 17 | 29 | 29 | 22 | 15 | 33 | 11 | 17 | 12 | 22 | 30 | 30 | 33 PD-1 | 5jxe ID 1 100 29 | 29 | 25 | 18 | 22 | 25 | 25 | 22 | 40 | 20 | 29 | 25 | 27 | 30 | 27 | 22 | 29 | 20 | 25 | 22 | 18 | 30 | 43 | 44 | 57 | 44 | 43 | 25 | 43 | 29 | 22 | 15 | 43 | 22 | 29 | 25 | 33 | 30 | 30 | 33 | 29 **100** 29 | 38 | 36 | 44 | 38 | **12** | 33 | 43 | 30 | 29 | 25 | 27 | 30 | 27 | 33 | 43 | 20 | 38 | 33 PD-1 | 7cgw ID 1 38 | 44 | 30 | 30 | 33 | 29 | 29 | 100 38 18 22 38 50 22 29 40 43 38 27 30 27 22 29 30 25 27 55 27 36 27 33 27 18 18 23 27 18 9 18 45 36 36 36 18 36 18 36 18 36 18 36 18 36 18 36 18 36 27 36 36 36 36 36 27 36 36 27 36 27 36 27 55 27 27 27 27 45 25 23 27 9 36 27 PD-1 | 5ggr\_ID\_1 PD-1 | 7bxa\_ID\_1 62 18 22 100 38 33 38 30 50 38 18 20 18 22 25 20 25 25 | 33 | 50 | 44 | 50 | 25 | 38 | 38 | 33 | 23 | 38 | 44 | 38 | 25 | 56 | 20 | 20 | 22 | 25 | 38 | 38 38 | 22 | 25 | 44 | 50 | 42 | 50 | 62 | 33 | 23 | 38 | 22 | 38 | 25 | 44 | 20 | 20 | 22 | 25 | 12 | 50 | 50 | 18 | 22 | 38 | 100 33 | 25 | 50 | 38 | 62 | 18 | 20 | 18 | 22 | 25 | 30 | 25 PD-1 | 7wvm ID 1 PD-1 | 7cu5 ID 1 40 | 40 | 30 | 50 | 30 | 42 | 50 | 50 | 30 | 31 | 30 | 30 | 30 | 30 | 40 | 40 | 50 | 40 | 20 | 30 | 40 | 40 | 36 | 30 | 30 | 50 | 30 | 30 | 30 | 100 40 50 36 40 45 20 30 40 30 30 27 PD-1 | 5jxe\_ID\_2 29 | 33 | 43 | 44 | 57 | 25 | 29 | 43 | 33 | 23 | 43 | 33 | 43 | 25 | 33 | 20 | 20 | 22 | 29 | 29 | 43 | 50 | 18 | 22 | 50 | 38 | 33 | 29 PD-1 | 8gy5\_ID\_1 40 <mark>100</mark> 38 | 18 | 20 | 18 | 38 | 33 | 38 | 33 | 38 | 33 | 50 | 38 | 22 | 15 | 38 | 33 | 38 | 50 | 44 | 20 | 20 | 22 | 25 | 25 | 38 | 50 | 27 | 44 | 38 | 62 | 56 | 25 | 50 | 38 <mark>100</mark> | 18 | 20 | 18 | 11 | 38 | 40 | 38 | 33 | 27 | 50 | 36 | 31 | 38 | 25 | 12 | 50 | 38 PD-1 | 5ggs\_ID\_2 18 | 45 | 27 | 27 | 27 | 25 | 18 | 18 | 27 | 23 | 18 | 9 | 9 | 18 | 27 | 73 | 64 | 55 | 27 | 27 | 27 | 18 | 36 | 36 | 18 | 18 | 18 | 18 | 36 | 18 | 18 | 18 **100** 64 64 36 18 18 18 27 18 27 36 31 31 36 18 27 18 PD-1 | 5b8c ID 3 20 | 50 | 30 | 30 | 30 | 25 | 20 | 20 | 30 | 23 | 20 | 10 | 10 | 20 | 30 | 60 70 70 30 30 30 20 36 40 20 20 20 20 40 | 20 | 20 | 38 | 38 | 30 | 20 | 30 | 20 18 18 | 27 | 64 | 64 | 55 | 27 | 27 | 27 | 18 | 36 | 36 | 18 | 18 | 18 | 18 | 45 | 18 | 18 | 64 | 73 | 100 | 45 | 18 | 18 | 18 18 | 18 | 27 | 23 | 18 | 18 | 9 | 22 | 44 | 33 | 44 | 44 | 17 | 33 | 22 | 44 | 31 | 33 | 22 | 11 | 22 | 33 | 40 | 40 | 44 | 22 | 33 | 22 | 22 | 27 | 56 | 22 | 22 | 33 | 33 | 20 22 30 22 30 | 27 | 25 | 23 | 33 | 11 | 33 | 22 36 | 40 | 45 | 11 43 | 44 | 57 | 33 | 43 | 33 | 43 | 29 | 33 | 23 | 43 | 33 | 29 | 38 | 33 | 20 | 20 | 33 | 29 | 43 | 29 | 25 | 36 | 56 | 25 | 25 | 44 | 29 | 30 | 43 | 38 | 18 | 30 | 18 | 22 30 62 22 18 30 27 25 23 29 29 43 29 30 10 | 50 | 36 | 50 | 45 | 25 | 23 | 30 | 30 | 30 | 30 38 | 44 | 38 | 22 | 25 | 33 | 38 | 25 | 22 | 15 | 25 | 22 | 12 | 25 | 44 | 20 | 20 | 33 | 25 | 38 | 25 | 38 | 55 | 33 | 25 | 25 | 44 | 25 | 30 | 25 | 38 | 18 30 18 22 10 22 18 | 30 | 18 | 25 | 23 | 25 | 12 | 38 | 25 50 | 22 45 | 45 | 36 | 33 | 18 | 36 | 36 | 31 | 27 | 45 | 36 | 27 | 36 | 18 | 18 | 18 | 18 | 18 | 45 | 27 | 27 | 18 | 45 | 36 | 27 | 18 | 27 | 27 | 27 | 18 | 18 | 18 | 18 | | 18 | 36 | 18 | 18 | <mark>100</mark> | 36 | 38 | 38 | 30 | 30 | 30 | 30 40 | 30 | 40 | 50 | 40 | 42 | 30 | 50 | 40 | 31 | 40 | 40 | 50 | 40 | 50 | 30 | 30 | 30 | 30 | 30 | 30 | 20 | 50 | 50 | 27 | 30 | 50 | 40 | 30 | 40 | 40 | 50 | 27 | 30 | 27 | 30 | 30 | 50 | 30 | 60 | 45 | 27 | 27 | 45 | 18 | <mark>100</mark> | 25 | 31 | 27 | 18 | 36 | | 27 | 36 | 36 | 36 | 36 | 25 | 27 | 27 | 27 | 31 | 27 | 27 | 27 | 27 | 27 | 36 | 36 | 36 | 36 | 18 | 27 | 36 | 36 | 45 | 45 | 27 | 27 | 36 | 27 | 50 38 25 PD-L1 | 5xxy PD-L1 | 5x8l ID 5 <mark>100</mark> | 31 | 23 | 31 | 23 29 | 22 | 57 | 33 | 43 | 17 | 29 | 29 | 33 | 23 | 29 | 33 | 29 | 25 | 44 | 30 | 30 | 44 | 29 | 29 | 43 | 25 | 27 | 22 | 50 | 38 | 22 | 29 | 30 | 29 | 25 | 36 | 30 | 36 | 33 | 29 | 30 | 25 PD-L1 | 5x8m | 36 | 30 | 27 | 25 | 31 PD-L1 | 5xj4 60 22 29 22 29 33 14 43 22 15 33 22 50 25 22 10 20 22 20 14 43 25 9 22 25 25 11 20 20 29 12 18 20 9 11 | 29 | 30 | 12 | 33 | 27 | 30 | 18 | 19 | 23 | 29 | <mark>100</mark> | 29 | 29 | 38 | 36 | 33 | 38 | 25 | 33 | 29 | 30 | 43 43 | 29 TIM3 | 6txz\_ID\_1 43 | 33 | 43 | 33 | 43 | 25 | 29 | 43 | 33 | 23 | 29 | 22 | 43 | 38 | 33 | 20 | 20 | 22 | 29 | 29 | 57 | 38 | 27 | 22 | 25 | 25 | 33 | 29 | 30 | 43 | 38 | 18 | 20 | 18 | 22 | 29 30 25 CILAA SH3 ID 2 CTLANA SHIS ID 3 CTLAN SKS ID A PDL1 5481103 POLL STORING A CTLA.A. Oddo 40. 1898C 10 3 CTLA-A TENT 80,1/0404 80. 1/64m PD-1 12/2 CTLAA TEND ID? CTLAN GOO D'A CTLAA SIMI ID? CTLAA SHU D'L 4D. 1888 1D. 8DY Site ID PD. TOM D 801/80gl 10? PD. Tota ID? PDA THUM ID? 807/89/6/107 80' Toto 10's PDL 1548 10 ? TIMB GAY ID? CTLR-A TEND ID'L 40.1/894p 10.1 40, 1880 D,3 801/808CID # SOU LINE DIT POT SOUTH 80. 10m 10 v