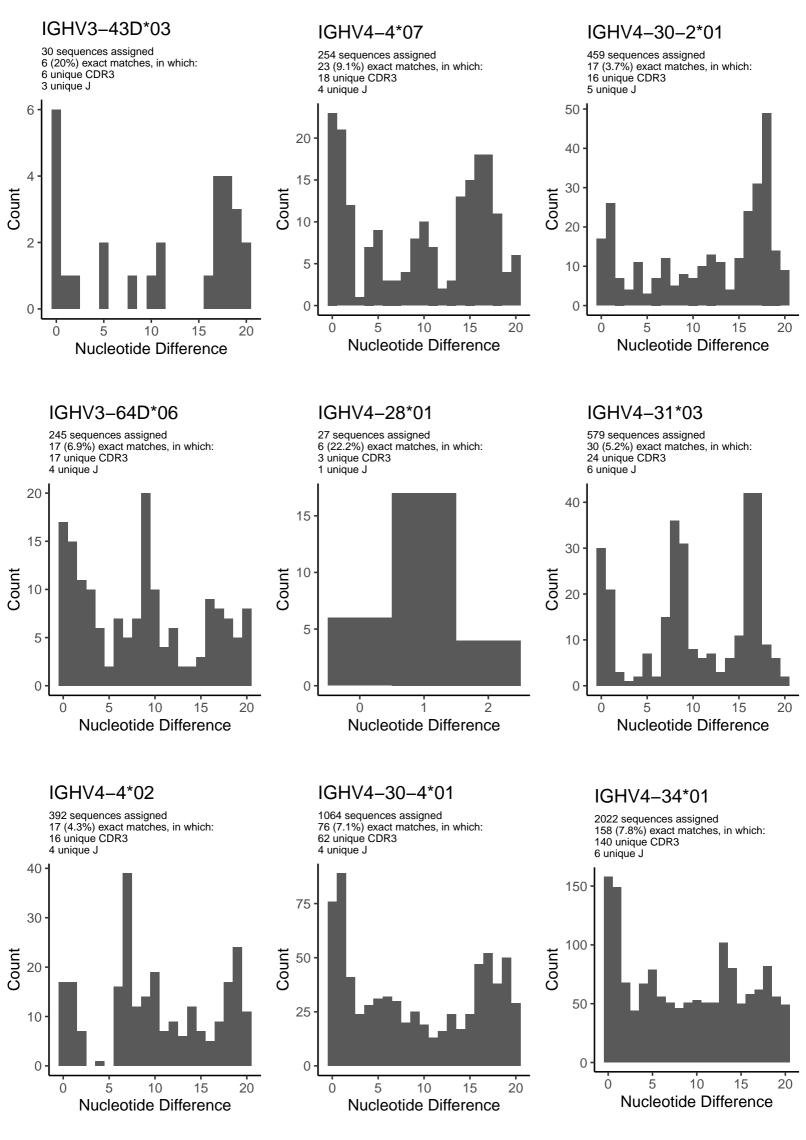


IGHV3-49*04 IGHV3-64*01 IGHV3-72*01 139 sequences assigned 20 (14.4%) exact matches, in which: 443 sequences assigned 2 (0.5%) exact matches, in which: 306 sequences assigned 19 (6.2%) exact matches, in which: 2 unique CDR3 18 unique CDR3 13 unique CDR3 1 unique J 5 unique J 3 unique J 25 20 20 30 15 Count Count 20 10 10 10 5 5 0 0 0 10 15 20 0 20 15 20 0 5 5 10 15 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-53*02 IGHV3-66*01 IGHV3-73*01 547 sequences assigned 38 (6.9%) exact matches, in which: 420 sequences assigned 374 sequences assigned 13 (3.1%) exact matches, in which: 12 unique CDR3 26 (7%) exact matches, in which: 29 unique CDR3 21 unique CDR3 4 unique J 5 unique J 5 unique J 20 75 30 15 Count Count Count 50 20 10 25 10 5 0 0 0 10 15 20 10 15 20 10 15 20 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-53*04 IGHV3-66*02 IGHV3-74*01 544 sequences assigned 1882 sequences assigned 253 sequences assigned 38 (7%) exact matches, in which: 76 (4%) exact matches, in which: 28 (11.1%) exact matches, in which: 22 unique CDR3 33 unique CDR3 64 unique CDR3 4 unique J 4 unique J 4 unique J 40 40 90 30 30 Count Count 60 20 20 30 10 10 0 0 0 0 5 10 15 20 0 5 10 15 20 0 5 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference



IGHV4-38-2*02 IGHV4-59*08 IGHV5-51*01 1260 sequences assigned 64 (5.1%) exact matches, in which: 55 unique CDR3 1066 sequences assigned 1174 sequences assigned 65 (5.5%) exact matches, in which: 57 unique CDR3 46 (4.3%) exact matches, in which: 35 unique CDR3 6 unique J 5 unique J 5 unique J 125 100 100 100 75 75 75 Count Count Count 50 50 50 25 25 25 0 0 0 20 5 10 15 20 5 10 15 20 5 10 15 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV5-51*03 IGHV4-39*01 IGHV4-61*02 5165 sequences assigned 284 (5.5%) exact matches, in which: 1810 sequences assigned 95 (5.2%) exact matches, in which: 629 sequences assigned 52 (8.3%) exact matches, in which: 47 unique CDR3 69 uniqué CDR3 266 unique CDR3 5 unique J 6 unique J 6 unique J 250 200 40 200 150 Count Count Count 100 20 100 50 0 0 0 10 15 20 10 15 20 0 5 0 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV4-59*01 IGHV5-10-1*03 IGHV6-1*01 633 sequences assigned 798 sequences assigned 1284 sequences assigned 106 (8.3%) exact matches, in which: 48 (7.6%) exact matches, in which: 60 (7.5%) exact matches, in which: 87 unique CDR3 43 unique CDR3 46 unique CDR3 6 unique J 5 unique J 6 unique J 50 90 40 60 30 Count Count Count 40 20 30 20 10 0 0 0 0 10 15 20 0 5 10 15 20 0 10 15 20

Nucleotide Difference

Nucleotide Difference

Nucleotide Difference



