

IGHV3-7*03 IGHV3-11*04 IGHV3-21*03 363 sequences assigned 20 (5.5%) exact matches, in which: 136 sequences assigned 21 (15.4%) exact matches, in which: 410 sequences assigned 69 (16.8%) exact matches, in which: 16 unique CDR3 19 unique CDR3 62 unique CDR3 3 unique J 4 unique J 6 unique J 20 20 60 15 15 Count Count 40 10 10 20 5 5 0 0 0 10 15 20 0 10 15 0 5 5 0 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-9*01 IGHV3-15*01_02 IGHV3-23*01_04 461 sequences assigned 61 (13.2%) exact matches, in which: 293 sequences assigned 14 (4.8%) exact matches, in which: 1688 sequences assigned 108 (6.4%) exact matches, in which: 96 unique CDR3 53 unique CDR3 13 unique CDR3 6 unique J 4 unique J 7 unique J 60 30 90 40 20 Count Count Count 60 20 10 30 0 0 0 0 10 0 10 15 20 10 15 20 5 15 20 5 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-11*01 IGHV3-20*03_04 IGHV3-33*01 170 sequences assigned 292 sequences assigned 171 sequences assigned 21 (12.3%) exact matches, in which: 30 (10.3%) exact matches, in which: 29 (17.1%) exact matches, in which: 27 unique CDR3 28 unique CDR3 20 unique CDR3 5 unique J 6 unique J 3 unique J 30 30 20 15 20 Count 10 10 10 5 0 0 0

0

10

Nucleotide Difference

15

20

0

5

10

Nucleotide Difference

15

20

0

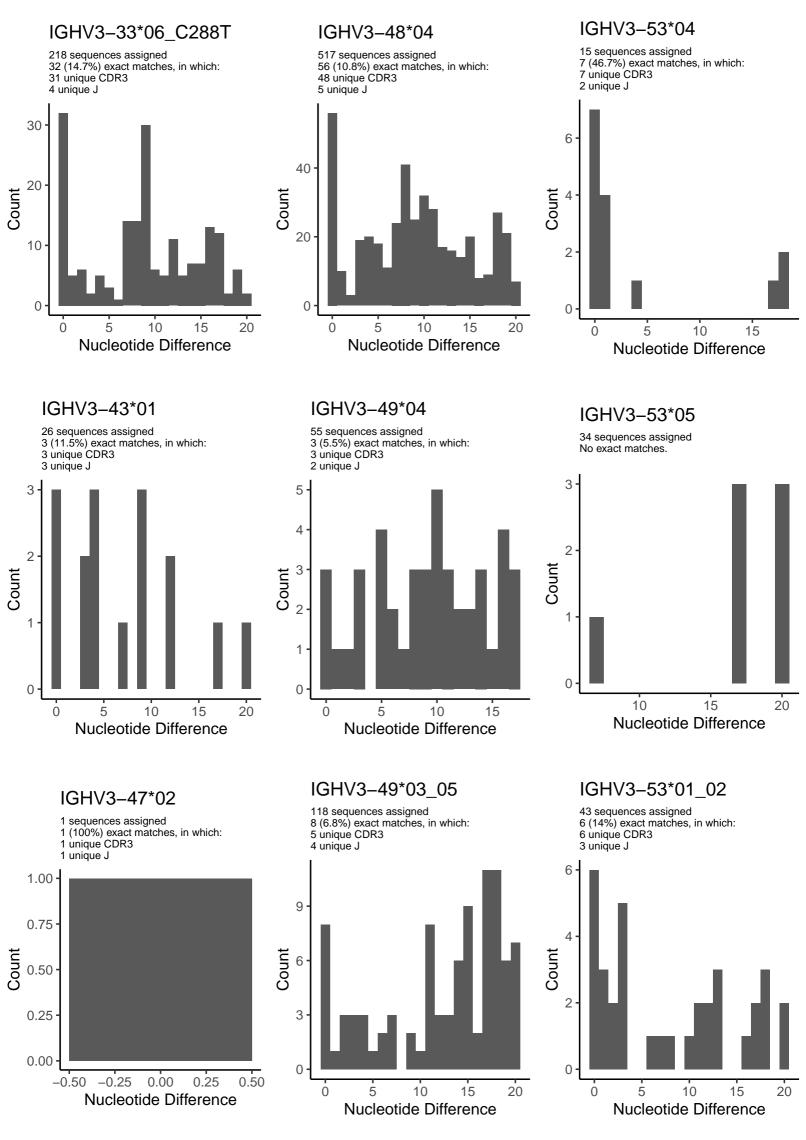
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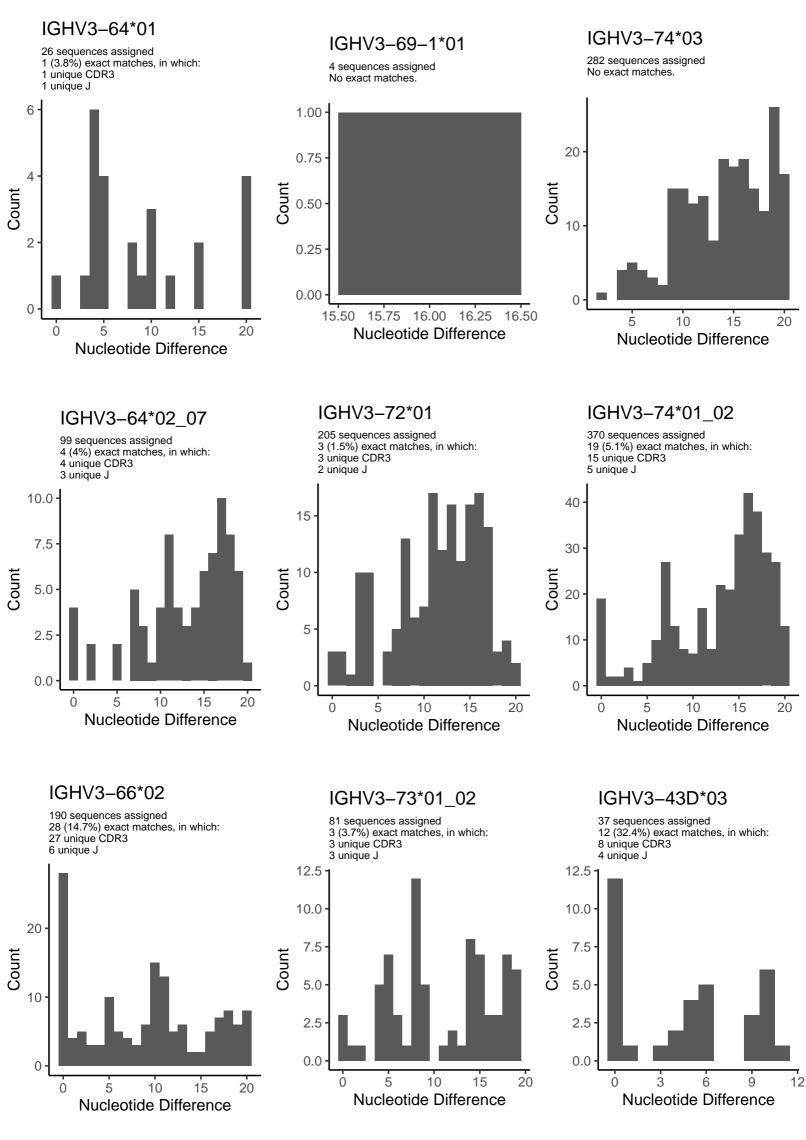
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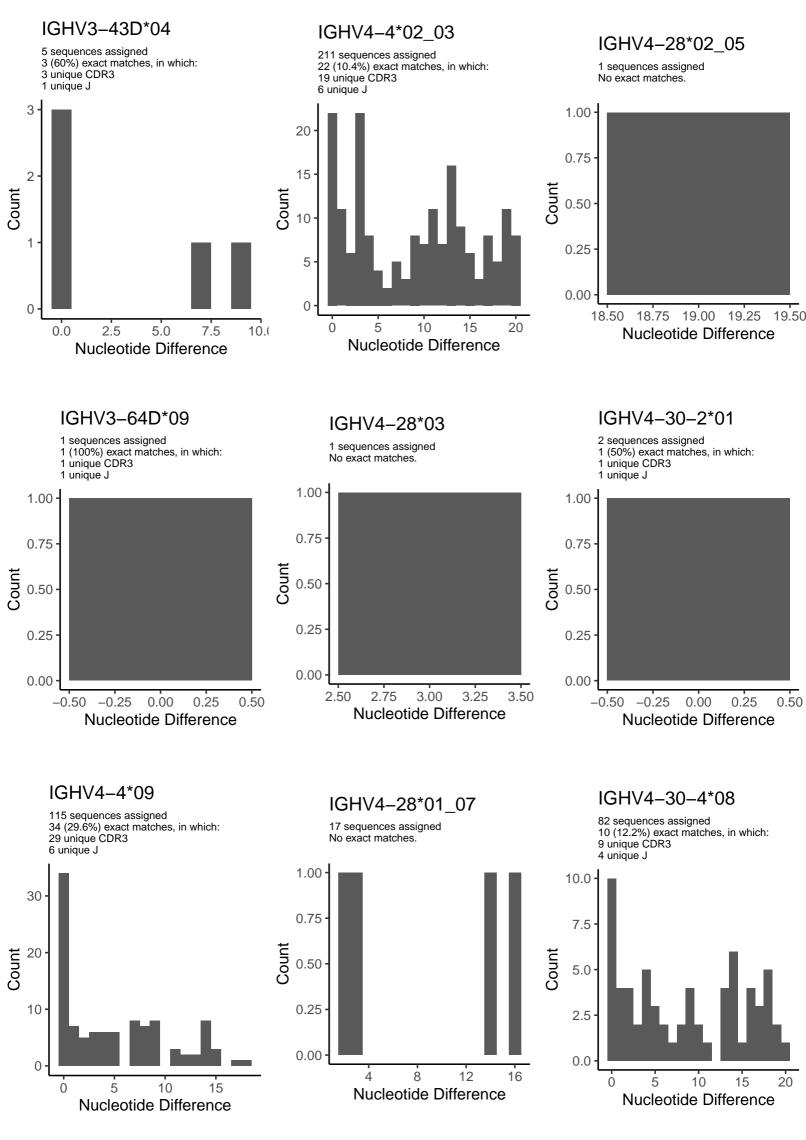
Nucleotide Difference

15

20



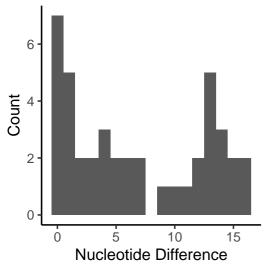




IGHV4-31*02 IGHV4-38-2*02 IGHV4-61*09_C163T_T16 355 sequences assigned 48 (13.5%) exact matches, in which: 243 sequences assigned 46 (18.9%) exact matches, in which: 84 sequences assigned 19 (22.6%) exact matches, in which: 45 unique CDR3 18 unique CDR3 40 unique CDR3 4 unique J 6 unique J 4 unique J 50 40 15 30 30 Count 20 20 5 10 10 0 0 0 10 10 15 20 0 5 15 20 0 5 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-39*07 IGHV5-51*07 IGHV4-34*01_02 558 sequences assigned 78 (14%) exact matches, in which: 303 sequences assigned 149 (49.2%) exact matches, in which: 78 sequences assigned No exact matches. 71 unique CDR3 142 unique CDR3 5 unique J 7 unique J 80 150 60 100 Count Count 40 50 3 20 0 0 10 15 20 0 5 10 20 0 5 15 15 20 0 5 10 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV5-51*01_03 IGHV4-59*11 IGHV4-38-2*01 329 sequences assigned 616 sequences assigned 73 sequences assigned 43 (13.1%) exact matches, in which: 123 (20%) exact matches, in which: 12 (16.4%) exact matches, in which: 42 unique CDR3 118 unique CDR3 12 unique CDR3 6 unique J 3 unique J 7 unique J 12.5 125 40 10.0 100 30 7.5 75 Count Count 20 5.0 50 10 2.5 25 0.0 0 0 15 20 10 0 10 15 20 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

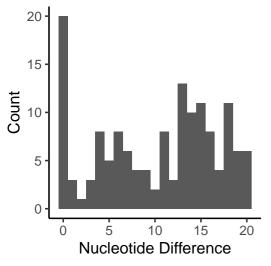
IGHV6-1*01_02

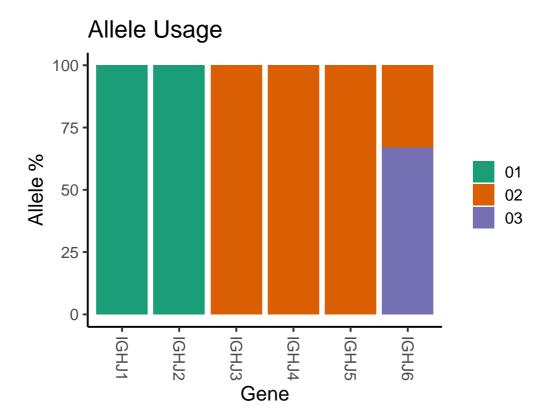
44 sequences assigned 7 (15.9%) exact matches, in which: 7 unique CDR3 4 unique J



IGHV7-4-1*02

172 sequences assigned 20 (11.6%) exact matches, in which: 20 unique CDR3 4 unique J





Sequence Count by IGHJ6 allele usage

