

## IGHV2-70\*01 IGHV3-11\*03\_05 IGHV3-7\*03 211 sequences assigned 10 (4.7%) exact matches, in which: 184 sequences assigned 21 (11.4%) exact matches, in which: 5488 sequences assigned 210 (3.8%) exact matches, in which: 20 unique CDR3 9 unique CDR3 162 ùniqué CDR3 4 unique J 2 unique J 6 unique J 15 30 200 Count Count 100 5 10 0 0 5 10 15 20 0 10 15 0 5 15 10 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV2-70\*11\_15 IGHV3-9\*01 IGHV3-13\*05 247 sequences assigned 35 (14.2%) exact matches, in which: 49 sequences assigned 91 sequences assigned 14 (15.4%) exact matches, in which: 1 (2%) exact matches, in which: 24 unique CDR3 1 unique CDR3 10 unique CDR3 4 unique J 1 unique J 3 unique J 60 10 Count Count 5 5 20 0 0 0 0 10 15 20 0 10 15 15 20 20 0 5 10 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-7\*01 IGHV3-11\*06 IGHV3-15\*01\_02 1432 sequences assigned 1014 sequences assigned 1550 sequences assigned 39 (2.7%) exact matches, in which: 108 (10.7%) exact matches, in which: 118 (7.6%) exact matches, in which: 39 unique CDR3 93 unique CDR3 80 unique CDR3 4 unique J 6 unique J 6 unique J 120 90 60 90 Count Count 60

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**Nucleotide Difference** 

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Nucleotide Difference

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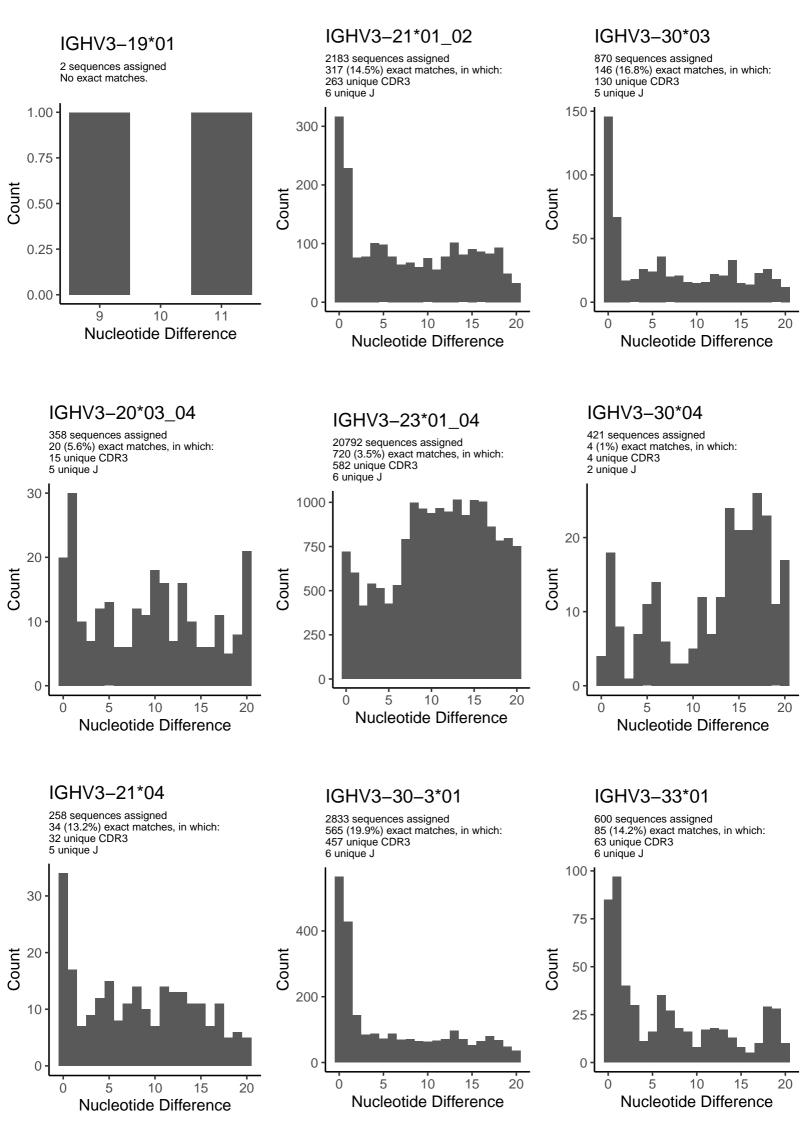
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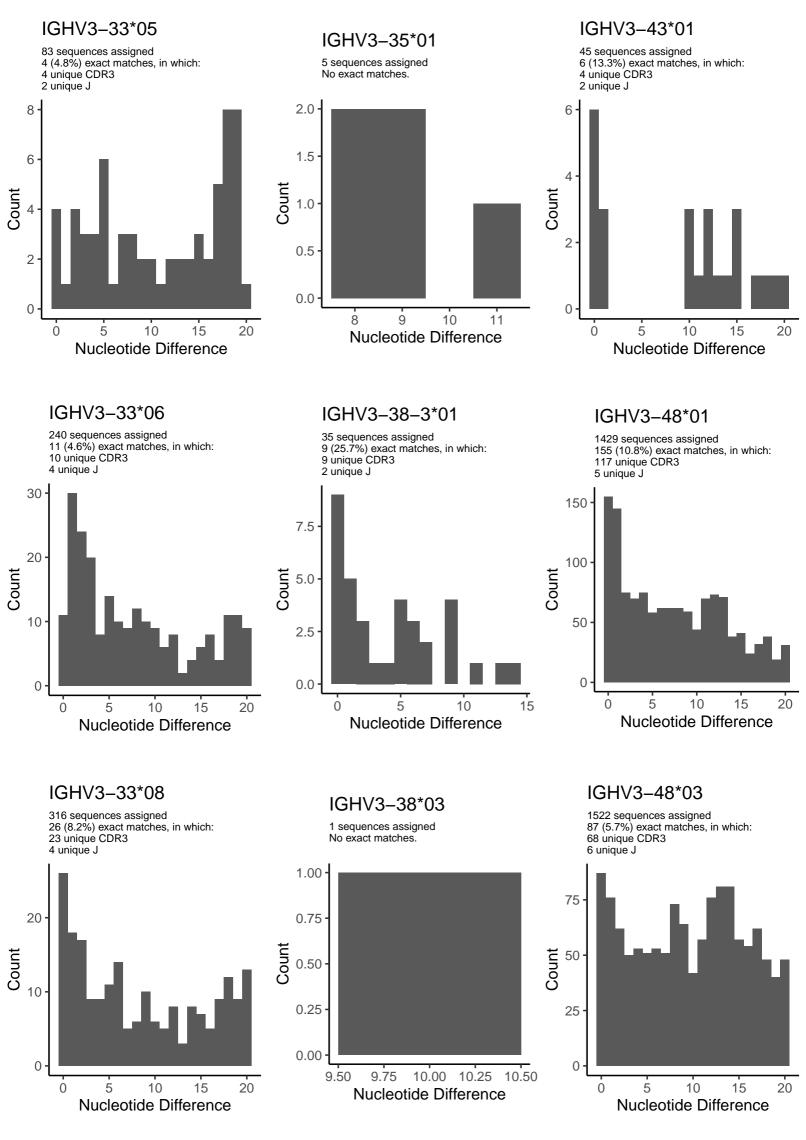
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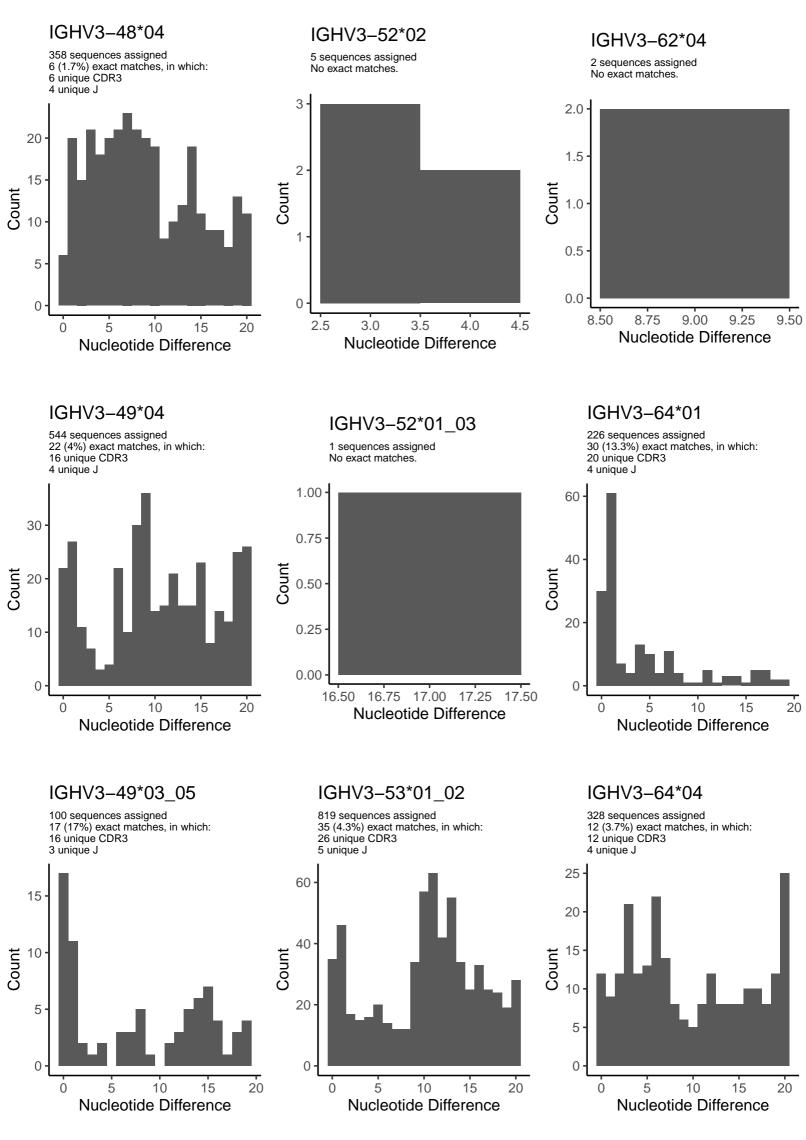
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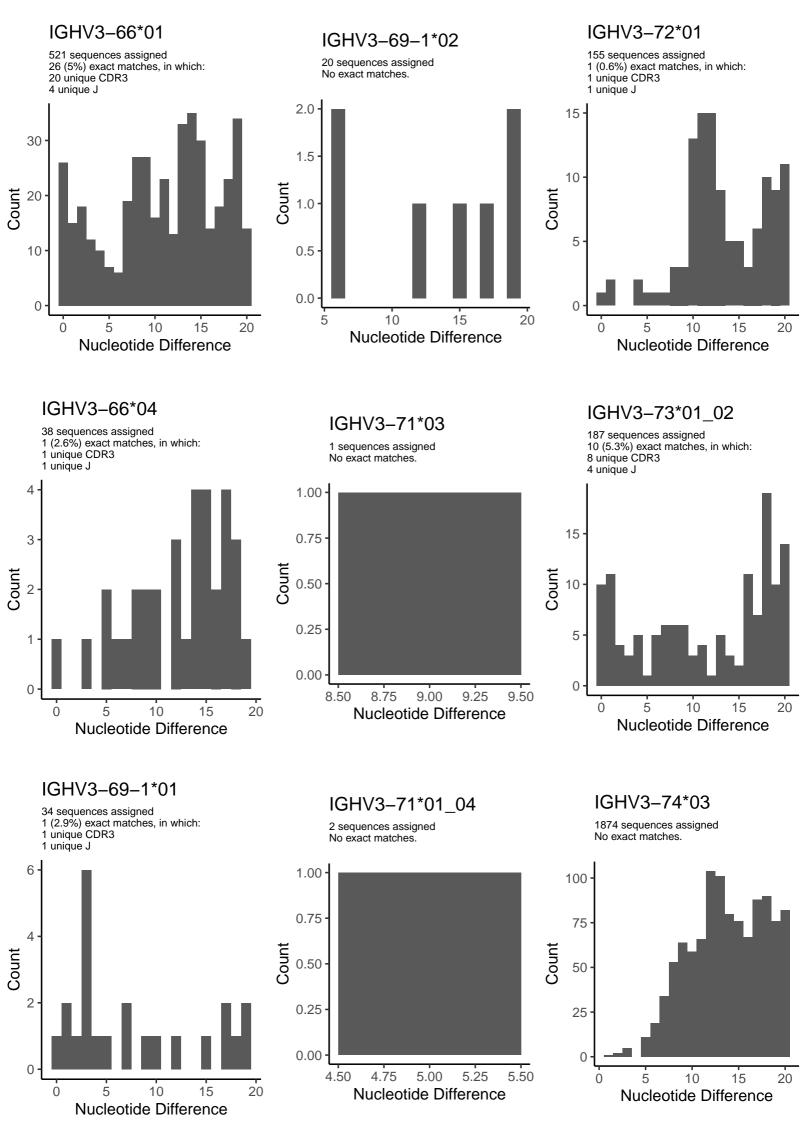
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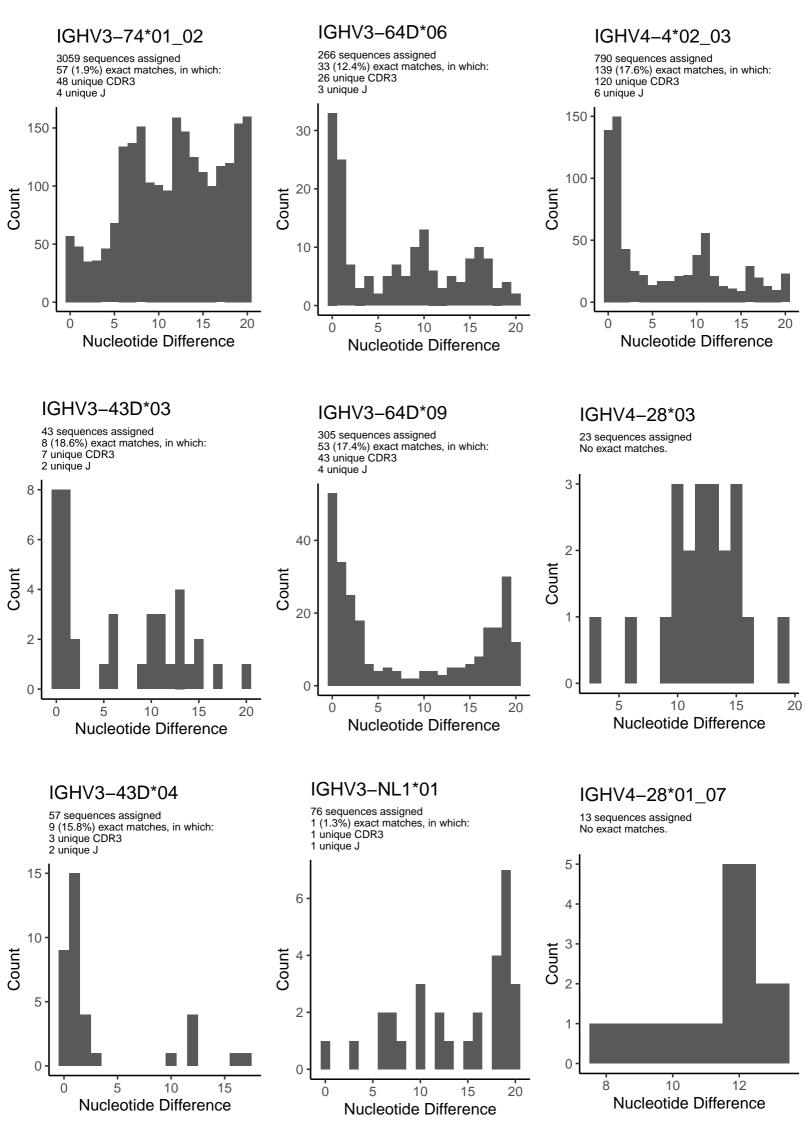
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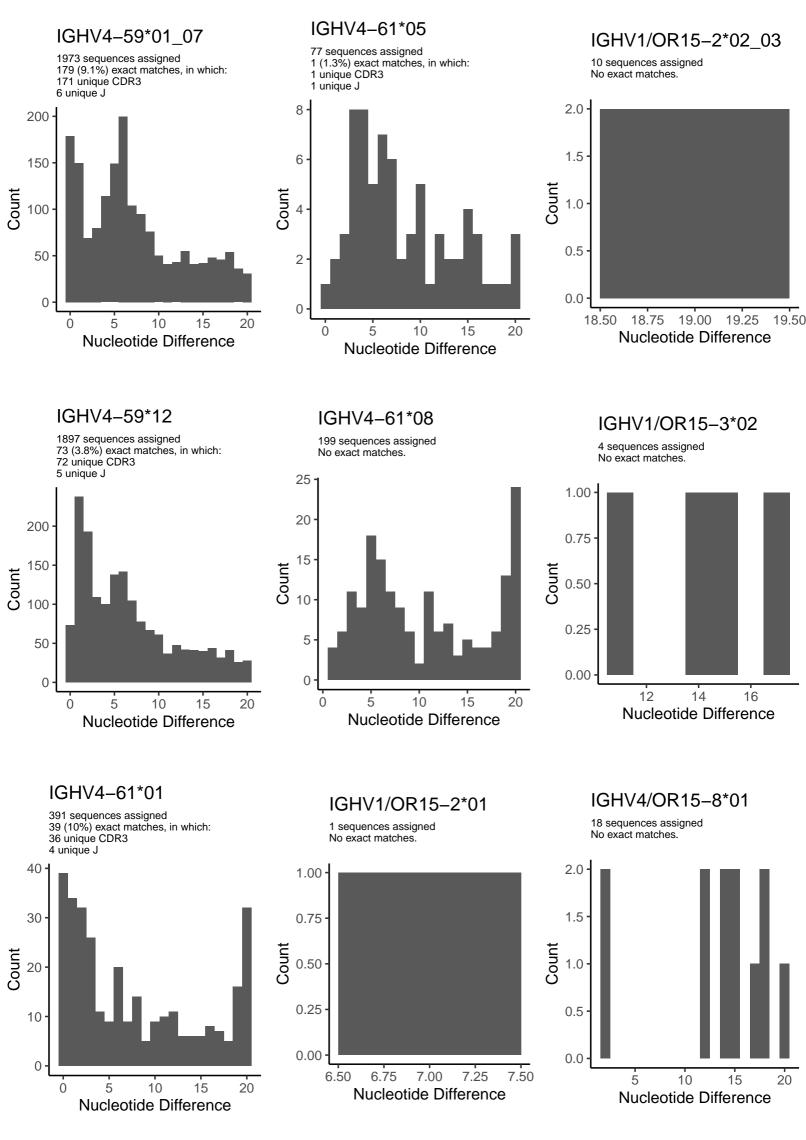








### IGHV4-30-2\*01 IGHV4-38-2\*02 IGHV4-31\*02 758 sequences assigned 78 (10.3%) exact matches, in which: 267 sequences assigned 944 sequences assigned 23 (8.6%) exact matches, in which: 20 unique CDR3 61 (6.5%) exact matches, in which: 55 unique CDR3 71 unique CDR3 5 unique J 4 unique J 5 unique J 100 80 30 75 60 Count Count Count 50 40 10 25 20 0 0 0 15 5 10 20 0 20 10 15 0 10 15 5 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV4-30-4\*01 IGHV4-34\*01\_02 IGHV4-39\*07 407 sequences assigned 1835 sequences assigned 296 (16.1%) exact matches, in which: 2263 sequences assigned 167 (7.4%) exact matches, in which: 54 (13.3%) exact matches, in which: 48 unique CDR3 151 uniqué CDR3 267 unique CDR3 6 unique J 6 unique J 5 unique J 300 250 200 40 200 150 Count Count 100 20 100 50 0 0 0 20 5 10 15 5 10 15 20 0 0 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV4-38-2\*01 IGHV4-30-4\*08 IGHV4-59\*08 406 sequences assigned 89 sequences assigned 1385 sequences assigned No exact matches. 38 (9.4%) exact matches, in which: 127 (9.2%) exact matches, in which: 36 unique CDR3 121 unique CDR3 4 unique J 6 unique J 8 6 100 40 Count Count Count 50 20 0 0 10 20 10 15 20 15 5 0 5 10 15 20 Nucleotide Difference Nucleotide Difference **Nucleotide Difference**

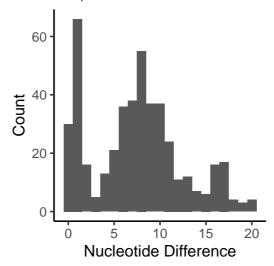


# 1870 sequences assigned 320 (17.1%) exact matches, in which: 270 unique CDR3 5 unique J

IGHV5-10-1\*01\_03

# IGHV6-1\*01\_02

480 sequences assigned 30 (6.2%) exact matches, in which: 26 unique CDR3 4 unique J



# IGHV5-51\*07

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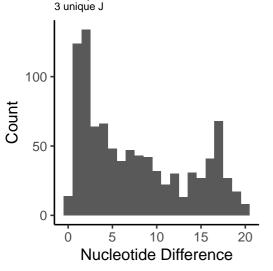
994 sequences assigned 14 (1.4%) exact matches, in which: 11 unique CDR3

10

**Nucleotide Difference** 

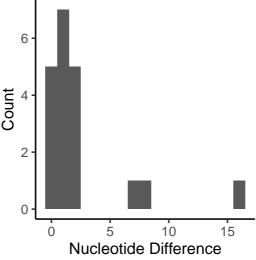
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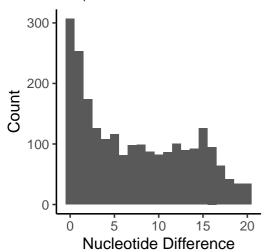
# IGHV7-4-1\*01

20 sequences assigned 5 (25%) exact matches, in which: 5 unique CDR3 2 unique J



# IGHV5-51\*01\_03

2920 sequences assigned 307 (10.5%) exact matches, in which: 269 unique CDR3 6 unique J





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