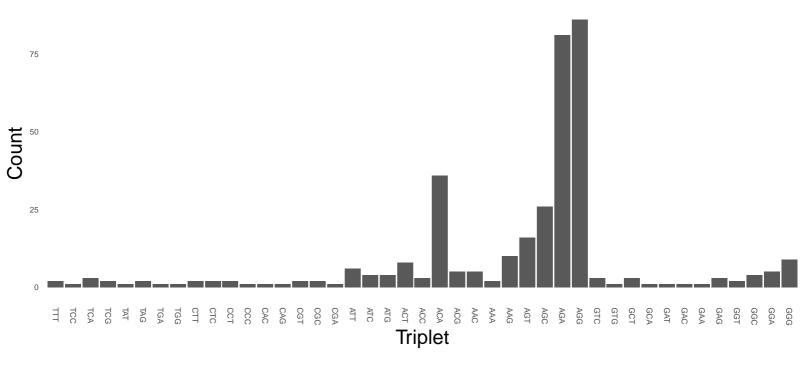
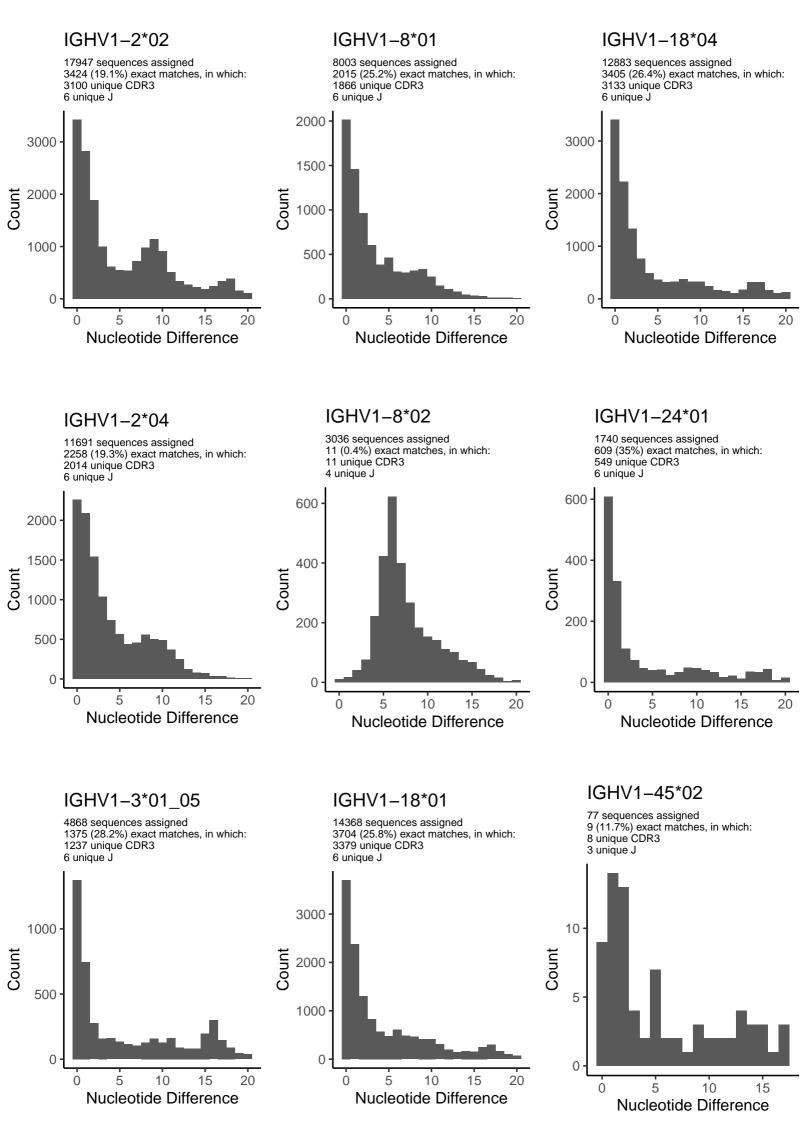
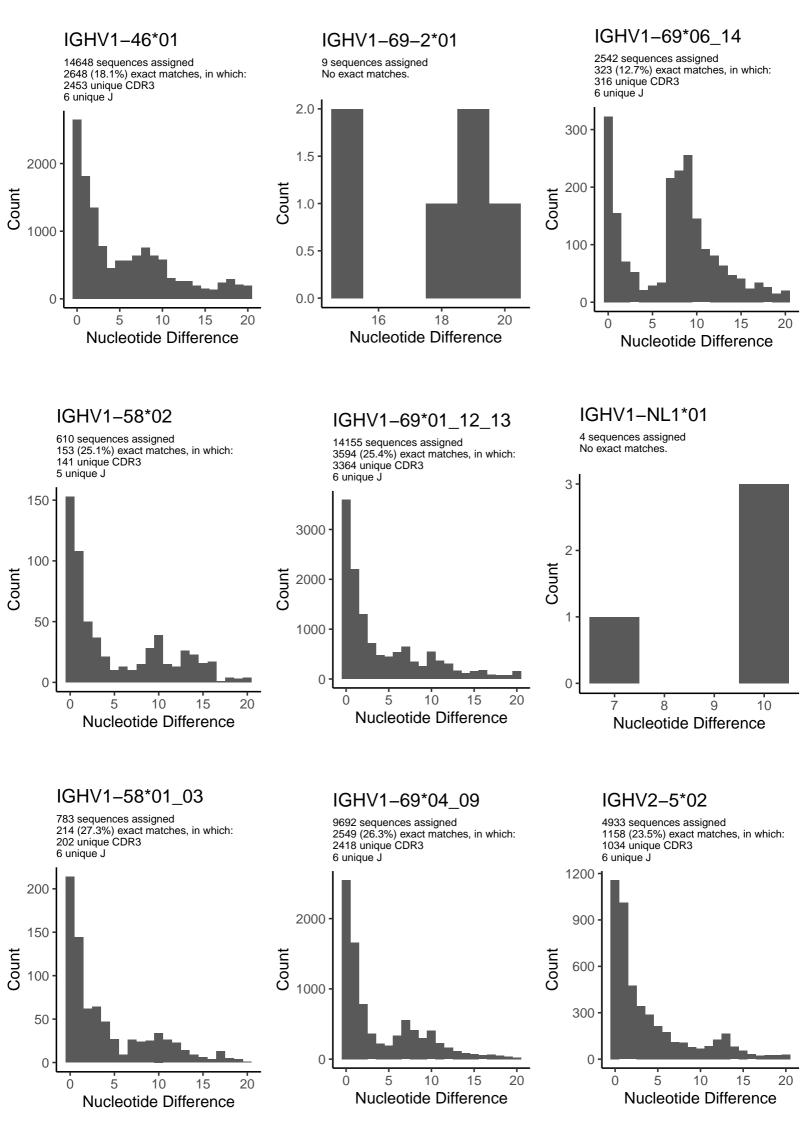


IGHV6-1\*01\_02\_A315G- Final 3 nucleotides as a triplet

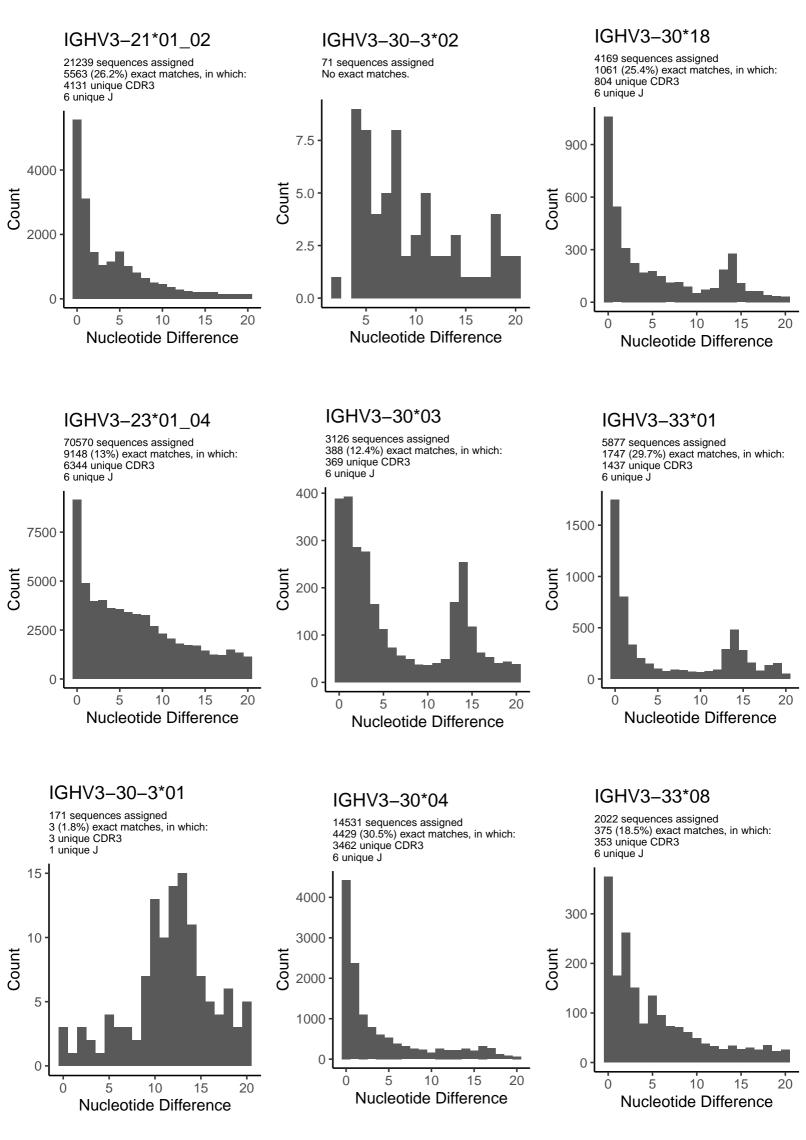


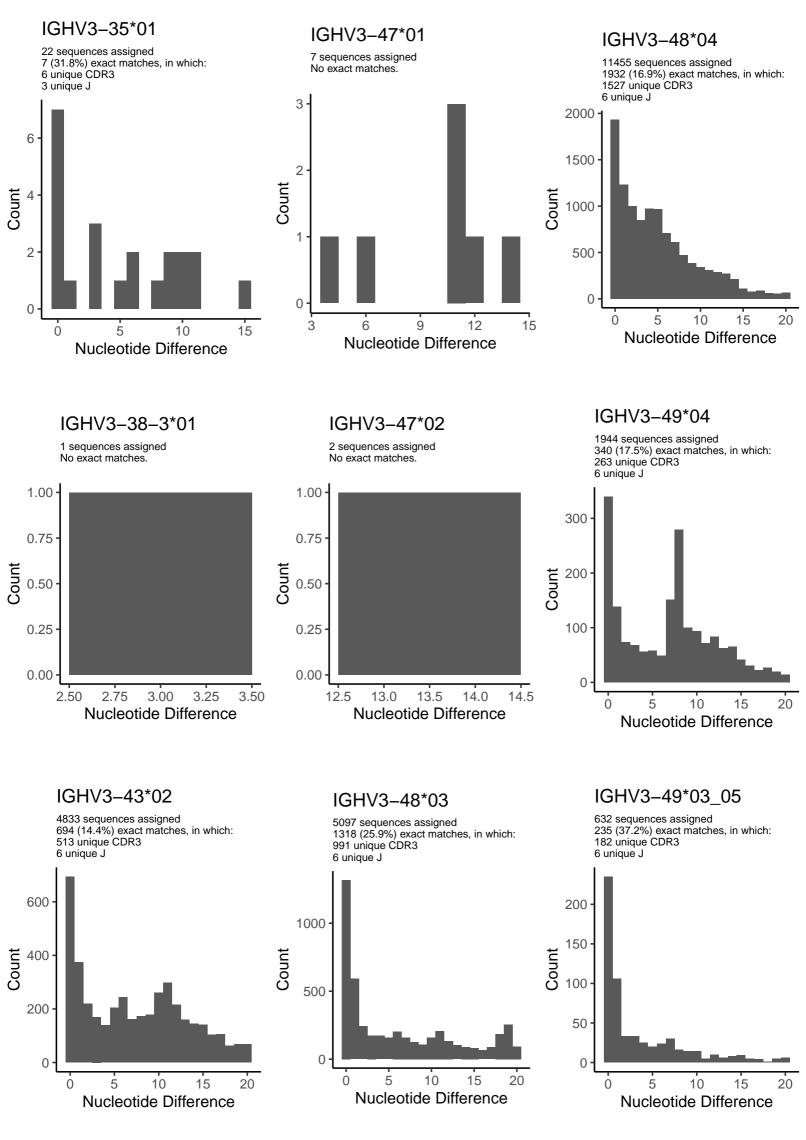


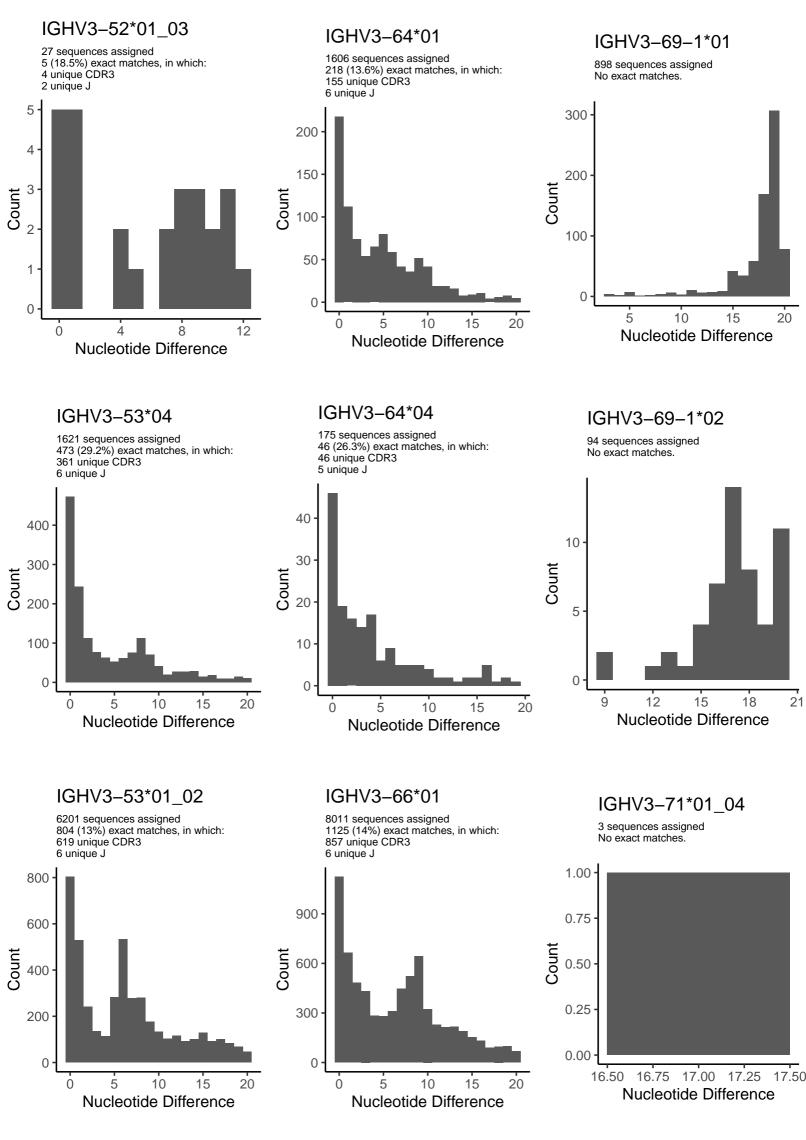


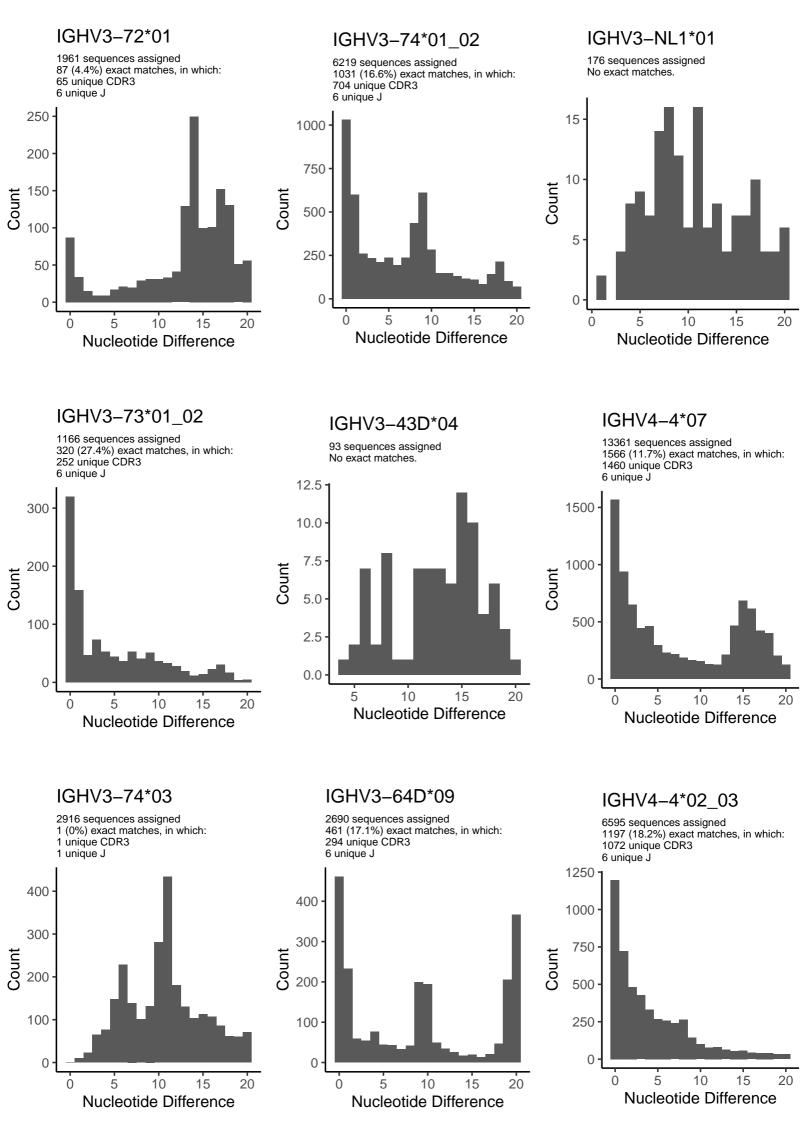
## IGHV2-26\*01 IGHV2-70\*11\_15 IGHV3-7\*03 1098 sequences assigned 92 (8.4%) exact matches, in which: 1433 sequences assigned 370 (25.8%) exact matches, in which: 2883 sequences assigned 69 (2.4%) exact matches, in which: 67 unique CDR3 86 unique CDR3 320 unique CDR3 6 unique J 6 unique J 6 unique J 150 75 300 100 Count Count 200 50 100 25 0 0 0 20 5 10 15 20 5 10 15 0 0 10 0 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-70\*01 IGHV3-7\*04 IGHV2-70D\*14 2489 sequences assigned 328 (13.2%) exact matches, in which: 3454 sequences assigned 1 sequences assigned 472 (13.7%) exact matches, in which: No exact matches. 296 unique CDR3 354 unique CDR3 5 unique J 6 unique J 400 -1.00 400 300 0.75 300 Count Count 0.50 200 200 0.25 100 100 0.00 0 0 7.50 7.75 8.00 8.25 8.50 20 10 15 20 0 5 10 15 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV2-70\*12 IGHV3-7\*01 IGHV3-9\*01 395 sequences assigned 9818 sequences assigned 2082 (21.2%) exact matches, in which: 11332 sequences assigned 1421 (12.5%) exact matches, in which: 11 (2.8%) exact matches, in which: 11 unique CDR3 1121 unique CDR3 1502 unique CDR3 4 unique J 6 unique J 6 unique J 80 2000 60 1500 1000 Count Count 40 1000 500 20 500 0 0 0 0 10 15 20 10 15 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

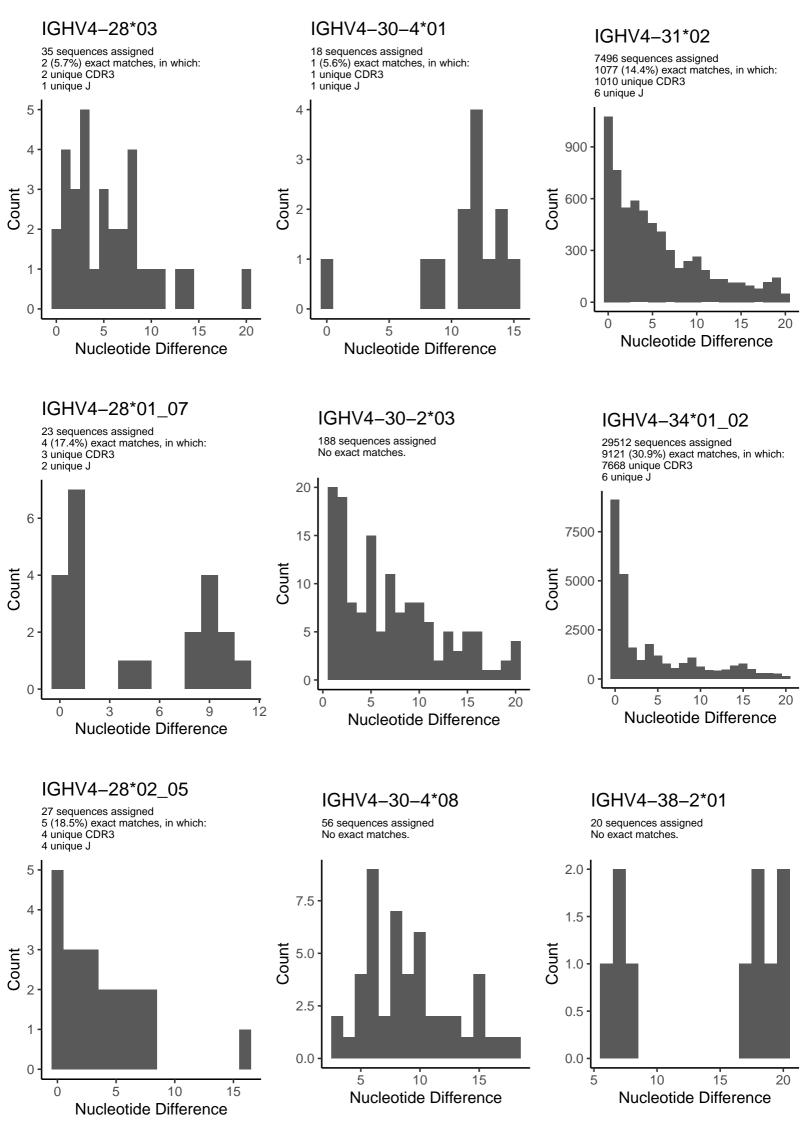
## IGHV3-19\*01 IGHV3-11\*01 IGHV3-13\*01 15 sequences assigned 4015 sequences assigned 1437 sequences assigned 303 (21.1%) exact matches, in which: 7 (46.7%) exact matches, in which: 5 unique CDR3 893 (22.2%) exact matches, in which: 708 unique CDR3 222 unique CDR3 3 unique J 6 unique J 6 unique J 300 6 750 200 Count Count Count 500 100 250 2 0 0 0 5 10 15 20 0 5 10 15 20 0 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-13\*05 IGHV3-11\*04 IGHV3-20\*01\_02 359 sequences assigned 777 sequences assigned 170 (21.9%) exact matches, in which: 859 sequences assigned 217 (25.3%) exact matches, in which: 109 (30.4%) exact matches, in which: 80 unique CDR3 214 unique CDR3 130 unique CDR3 5 unique J 6 unique J 6 unique J 200 150 90 150 Count Count 100 60 100 50 30 50 0 0 0 10 15 20 10 15 20 0 5 0 5 10 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-20\*03\_04 IGHV3-11\*06 IGHV3-15\*01\_02 220 sequences assigned 4051 sequences assigned 6108 sequences assigned 2 (0.9%) exact matches, in which: 657 (16.2%) exact matches, in which: 1139 (18.6%) exact matches, in which: 2 unique CDR3 537 unique CDR3 875 unique CDR3 2 unique J 6 unique J 6 unique J 20 600 900 15 Count Count 600 10 200 300 5 0 0 0 5 10 15 20 5 10 15 20 0 0 5 10 15 20 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**

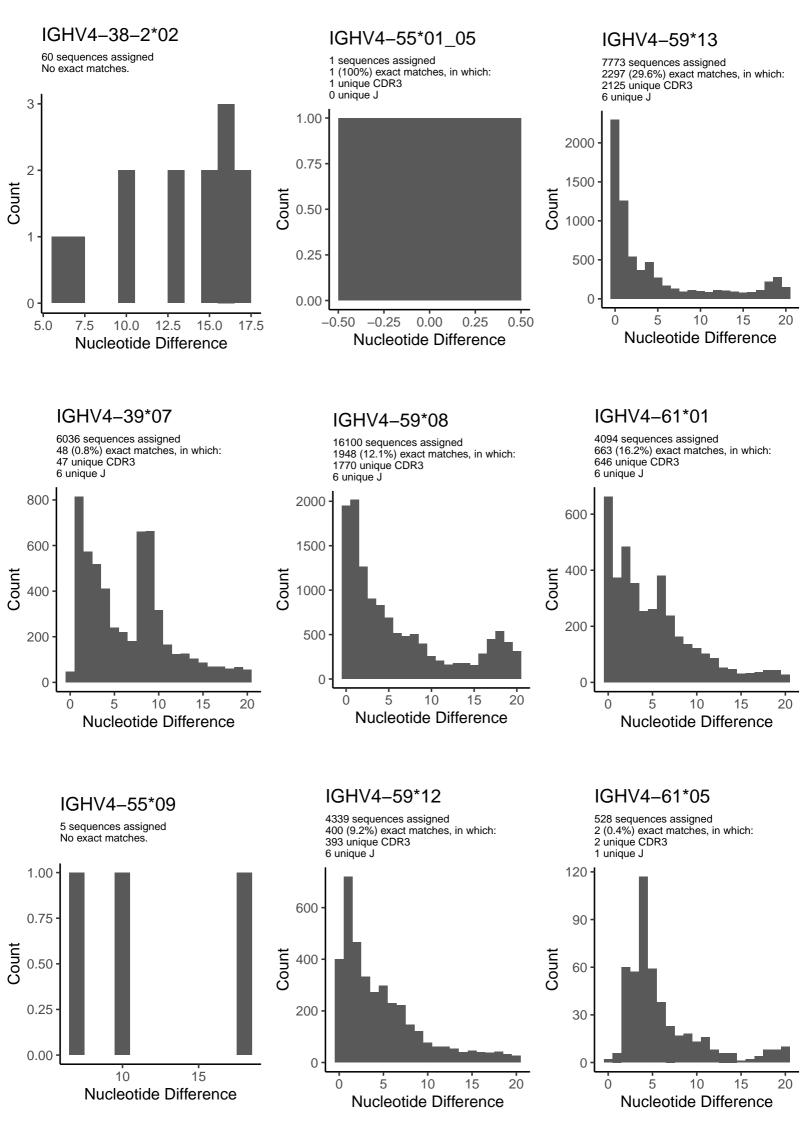


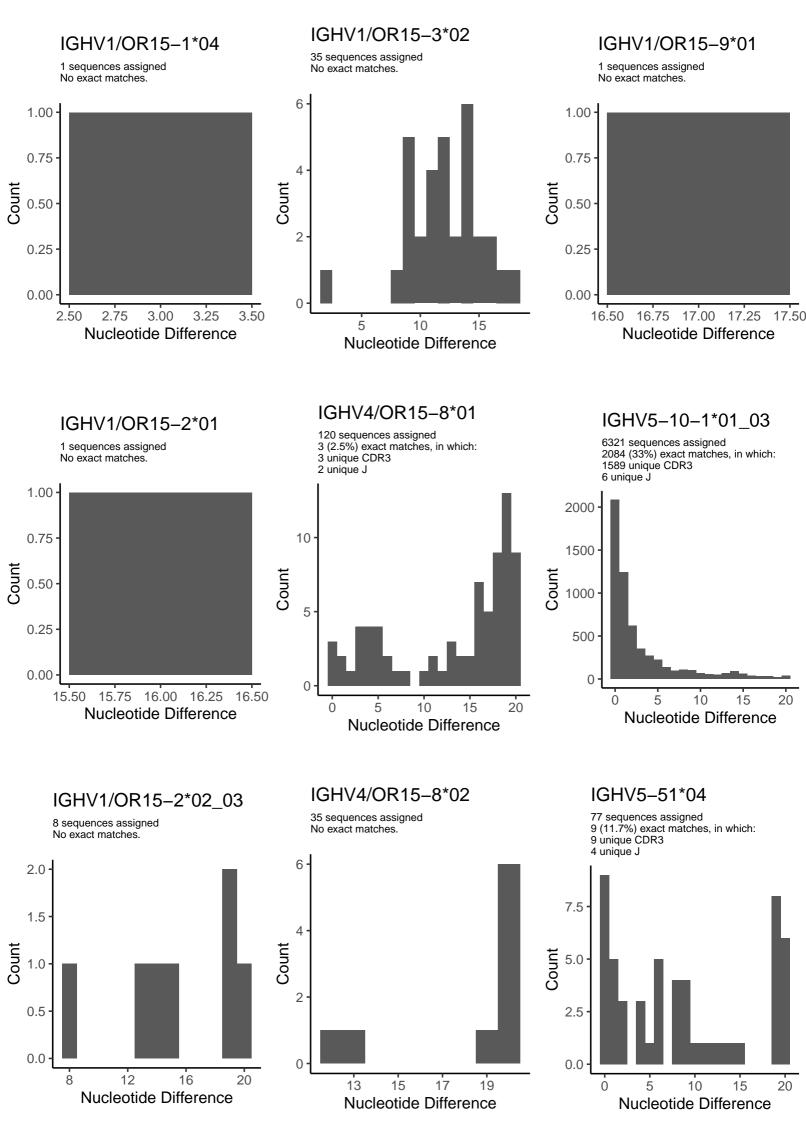












## IGHV5-51\*06 IGHV6-1\*01\_02\_A315G 44 sequences assigned 353 sequences assigned 104 (29.5%) exact matches, in which: 102 unique CDR3 7 (15.9%) exact matches, in which: 7 unique CDR3 4 unique J 5 unique J 100 6 75 Count Count 4 50 2 25 0 0 0 5 10 15 20 0 15 20 Nucleotide Difference **Nucleotide Difference** IGHV5-51\*07 IGHV3/OR16-13\*01 31 sequences assigned 8 (25.8%) exact matches, in which: 8 unique CDR3 1 sequences assigned No exact matches. 3 unique J 1.00 -0.75 6 Count 0.50 Count <sup>4</sup> 0.25 2 0.00 0 15.00 15.25 15.50 14.50 14.75 10 15 20 0 **Nucleotide Difference Nucleotide Difference** IGHV6-1\*01\_02 IGHV7-4-1\*02 1595 sequences assigned 405 (25.4%) exact matches, in which: 11610 sequences assigned 1509 (13%) exact matches, in which: 1343 unique CDR3 366 unique CDR3 6 unique J 6 unique J 400 1500 300 1000 Count 200 500 100 0 0 10 15 20 10 15 20

**Nucleotide Difference** 

**Nucleotide Difference** 

IGHV7-81\*01

4 sequences assigned No exact matches.

2.0

1.5

1.0

0.5

0.0

2

6

Nucleotide Difference

IGHV6-1\*01\_02\_A315G

