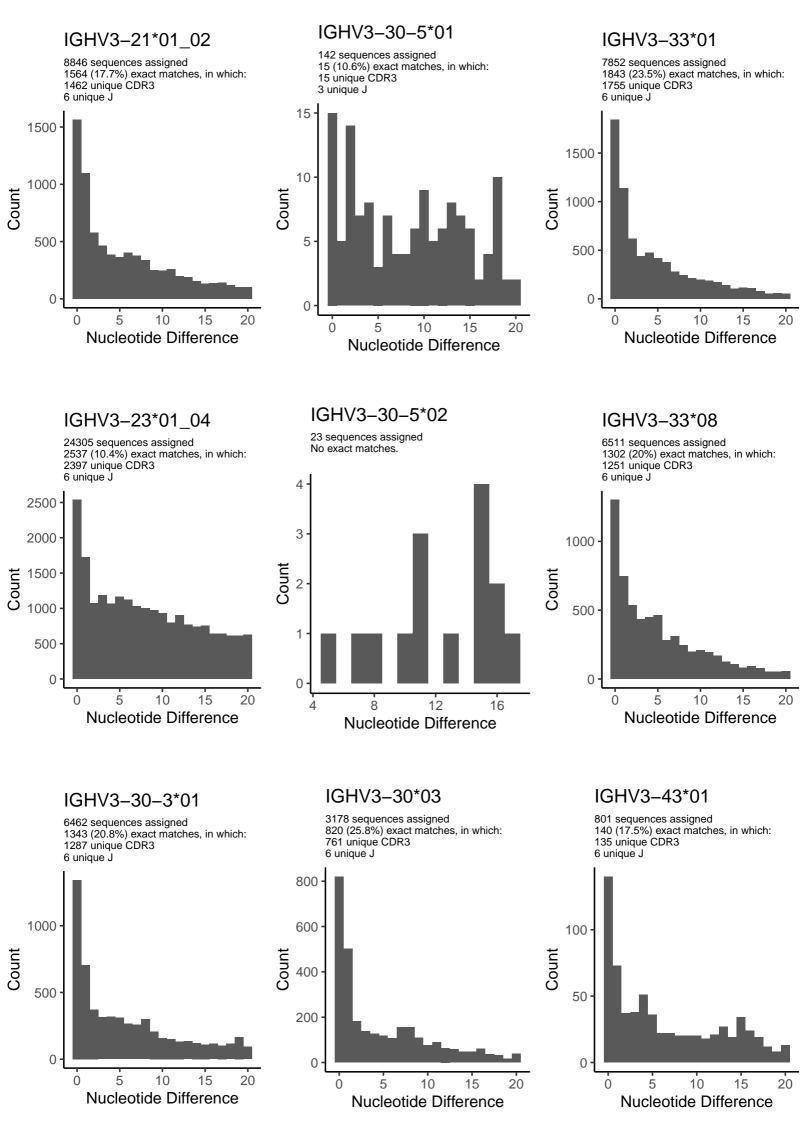
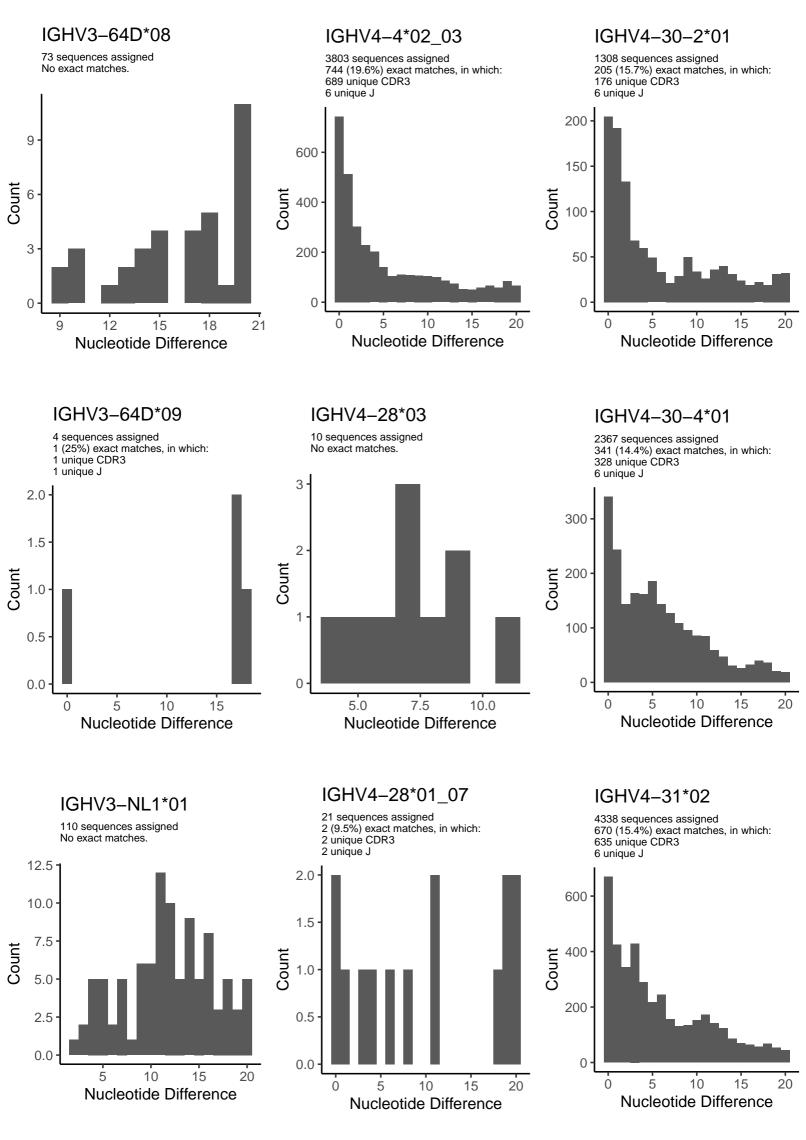


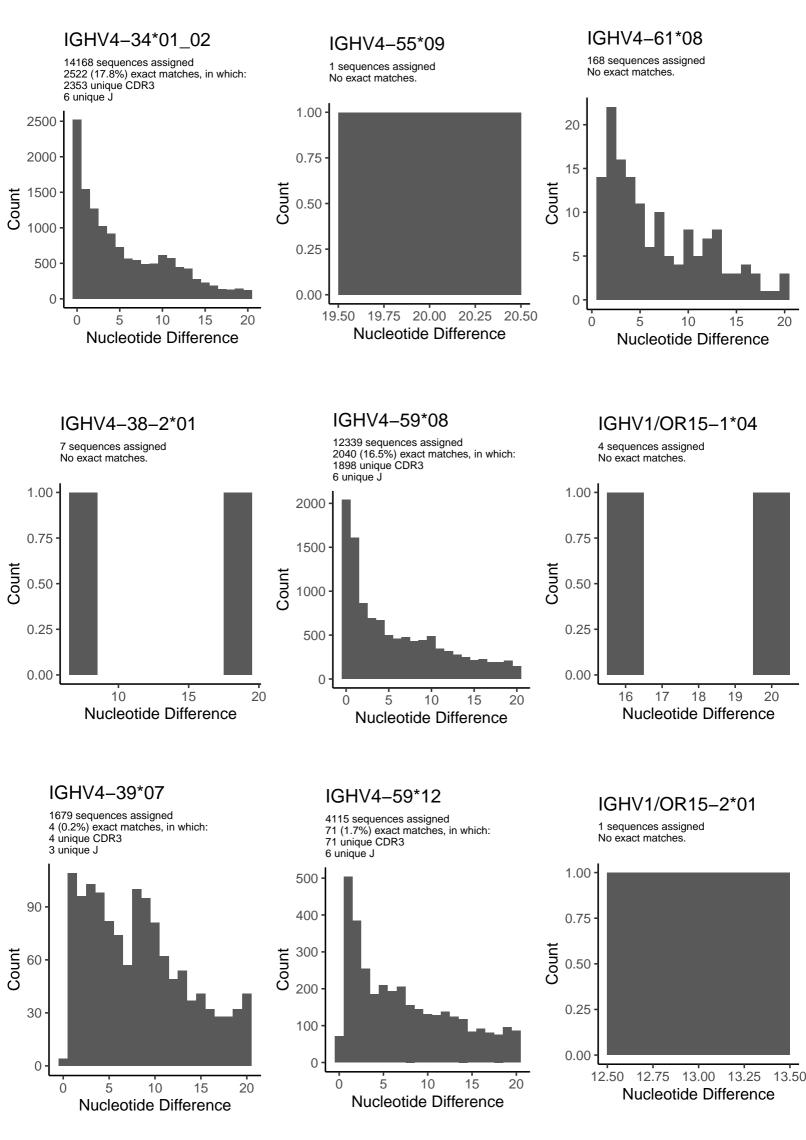
#### IGHV3-15\*01\_02 IGHV3-9\*01 IGHV3-11\*06 2731 sequences assigned 248 (9.1%) exact matches, in which: 4524 sequences assigned 627 (13.9%) exact matches, in which: 892 sequences assigned 134 (15%) exact matches, in which: 588 unique CDR3 127 unique CDR3 242 uniqué CDR3 6 unique J 6 unique J 6 unique J 600 300 100 400 200 Count Count Count 50 200 100 0 0 0 5 10 15 20 0 5 10 15 20 5 10 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-20\*01\_02 IGHV3-11\*01 IGHV3-13\*01 171 sequences assigned 2857 sequences assigned 843 sequences assigned 100 (11.9%) exact matches, in which: 48 (28.1%) exact matches, in which: 548 (19.2%) exact matches, in which: 47 unique CDR3 519 unique CDR3 94 unique CDR3 5 unique J 6 unique J 5 unique J 50 100 40 75 400 30 Count Count 50 20 200 25 10 0 0 0 10 15 20 10 15 20 0 5 0 5 10 15 20 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-11\*04 IGHV3-20\*03\_04 IGHV3-15\*07 709 sequences assigned 366 sequences assigned 1813 sequences assigned 63 (8.9%) exact matches, in which: 35 (9.6%) exact matches, in which: 393 (21.7%) exact matches, in which: 63 unique CDR3 32 unique CDR3 377 unique CDR3 6 unique J 3 unique J 6 unique J 400 300 Count Count 20 40 200 10 20 100 0 0 0 20 5 10 15 0 5 10 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

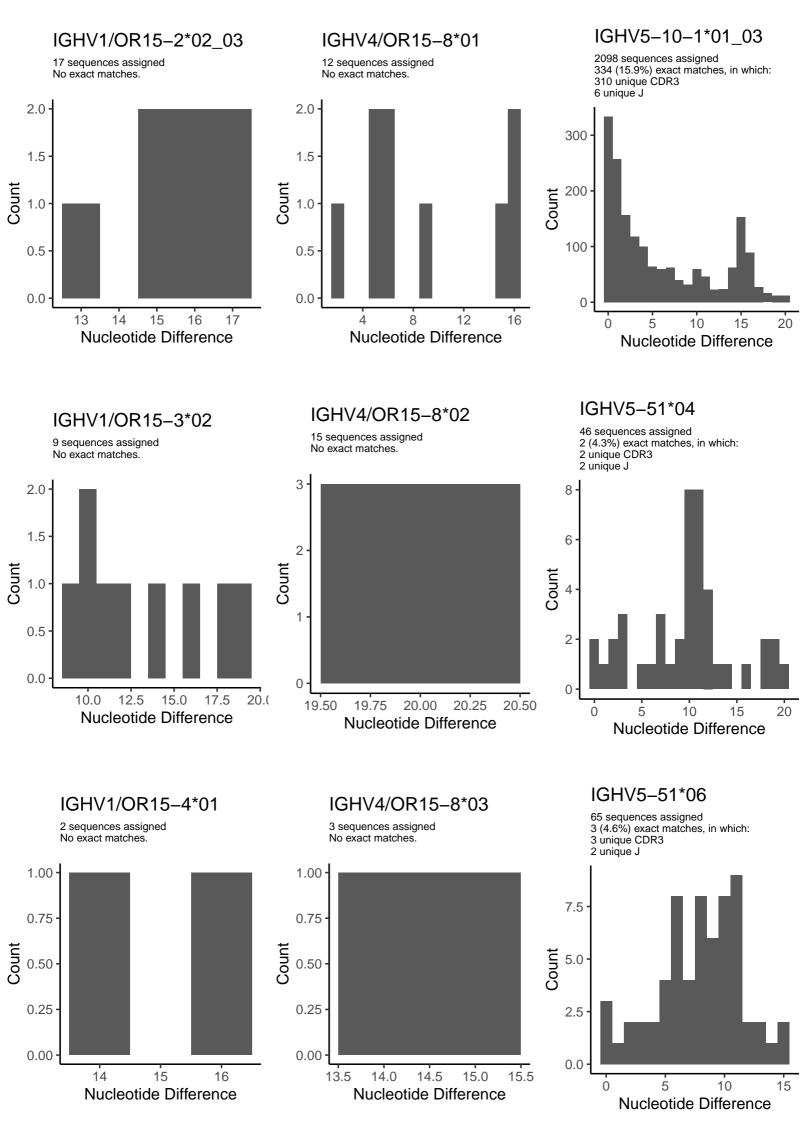


### IGHV3-49\*03\_05 IGHV3-53\*01\_02 IGHV3-48\*01 7771 sequences assigned 530 (6.8%) exact matches, in which: 1717 sequences assigned 346 (20.2%) exact matches, in which: 5422 sequences assigned 979 (18.1%) exact matches, in which: 479 unique CDR3 326 unique CDR3 890 unique CDR3 6 unique J 6 unique J 6 unique J 1000 300 750 750 200 Count Count 500 500 100 250 250 0 0 0 0 10 15 5 10 15 20 5 10 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-48\*02 IGHV3-64\*01 IGHV3-52\*01\_03 766 sequences assigned 179 (23.4%) exact matches, in which: 3003 sequences assigned 4 sequences assigned 663 (22.1%) exact matches, in which: No exact matches. 608 unique CDR3 166 unique CDR3 6 unique J 6 unique J 2.0 600 150 1.5 400 Count Count 100 1.0 200 50 0.5 0.0 0 0 9 10 20 10 15 10 15 20 0 5 0 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-48\*04 IGHV3-53\*05 IGHV3-64\*04 378 sequences assigned 856 sequences assigned 143 sequences assigned 3 (0.8%) exact matches, in which: 46 (5.4%) exact matches, in which: No exact matches. 46 unique CDR3 3 unique CDR3 6 unique J 2 unique J 40 60 30 Count Count 20 5 20 10 0 0 0 5 15 10 20 0 10 0 5 15 20 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

### IGHV3-72\*01\_T159A\_C1 IGHV3-74\*01\_02 IGHV3-66\*01 838 sequences assigned 78 (9.3%) exact matches, in which: 68 unique CDR3 5649 sequences assigned 4782 sequences assigned 644 (13.5%) exact matches, in which: 901 (15.9%) exact matches, in which: 598 unique CDR3 848 unique CDR3 6 unique J 5 unique J 6 unique J 100 600 750 75 400 Count Count 500 50 200 250 25 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-69-1\*01 IGHV3-73\*01\_02 IGHV3-43D\*04 764 sequences assigned 148 (19.4%) exact matches, in which: 82 sequences assigned 4 sequences assigned No exact matches. No exact matches. 140 unique CDR3 6 unique J 1.00 150 6 0.75 100 Count Count 0.50 50 2 0.25 0.00 0 0 11.00 11.50 10.50 10.75 11.25 10 15 20 10 15 20 0 5 5 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-72\*01 IGHV3-64D\*06 IGHV3-74\*03 485 sequences assigned 512 sequences assigned 2253 sequences assigned 14 (2.9%) exact matches, in which: 188 (36.7%) exact matches, in which: No exact matches. 14 unique CDR3 167 unique CDR3 2 unique J 6 unique J 150 40 150 30 100 Count Count Count 100 20 50 50 10 0 0 15 20 10 5 10 15 20 0 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**

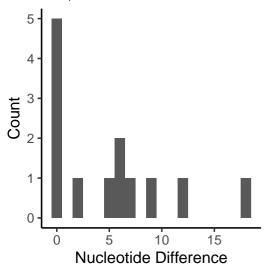






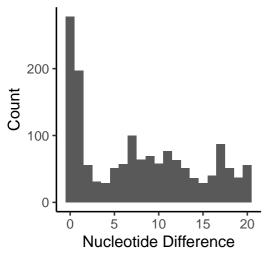
## IGHV5-51\*07

14 sequences assigned 5 (35.7%) exact matches, in which: 5 unique CDR3 2 unique J



# IGHV6-1\*01\_02

1672 sequences assigned 278 (16.6%) exact matches, in which: 263 unique CDR3 6 unique J



# IGHV7-4-1\*01\_T63C

40 sequences assigned 20 (50%) exact matches, in which: 20 unique CDR3 4 unique J

