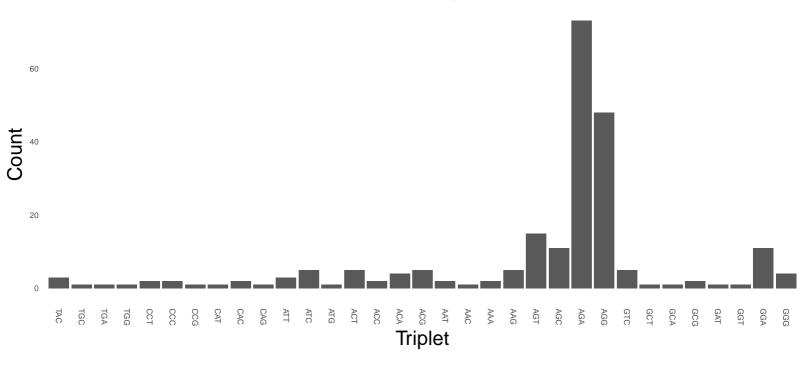
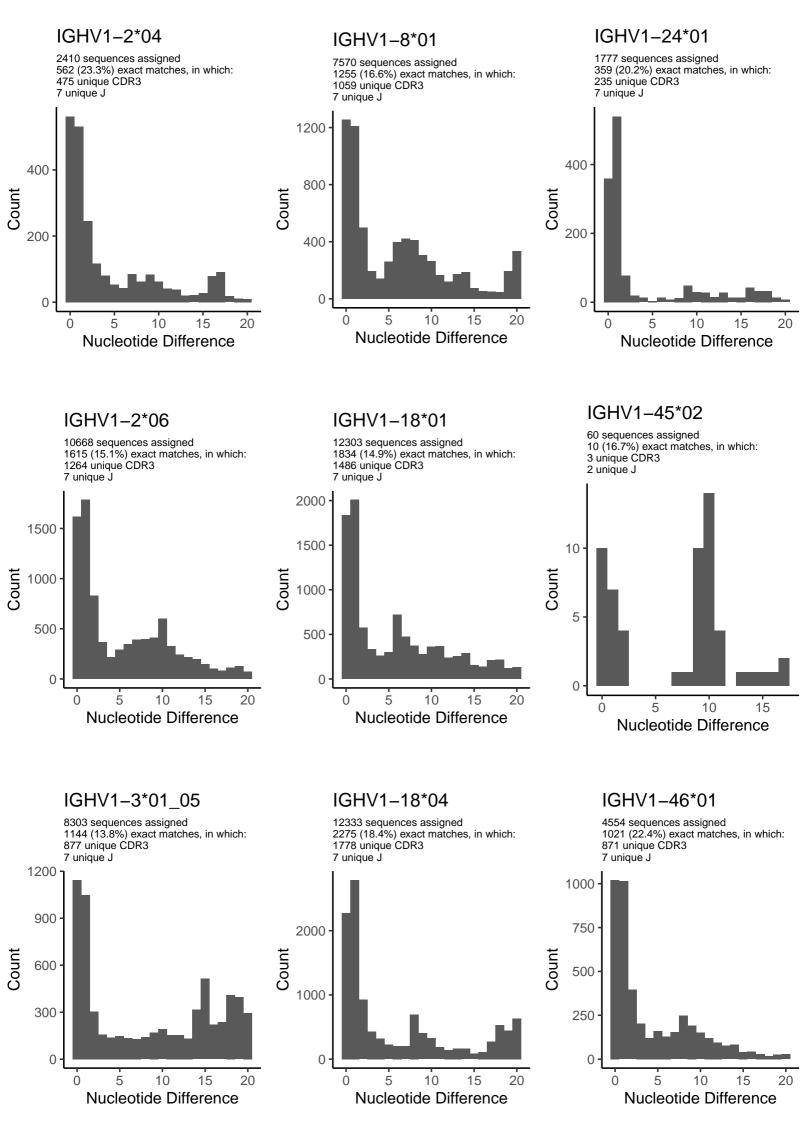
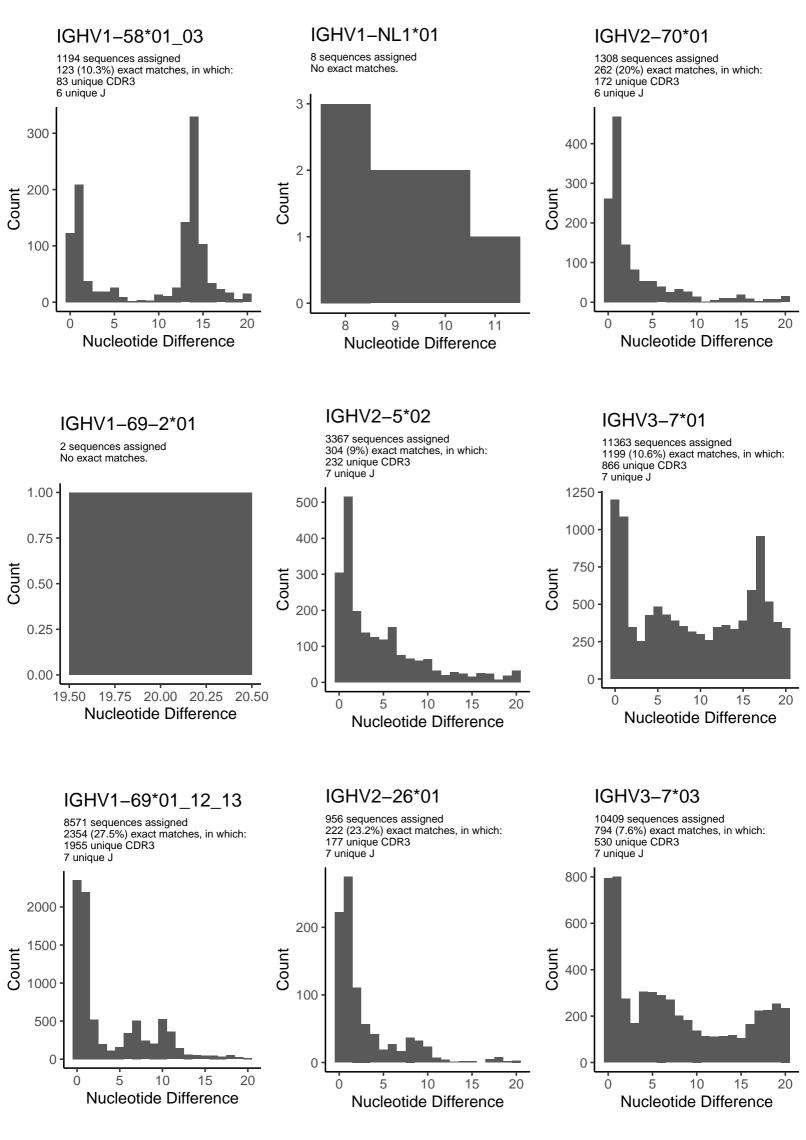




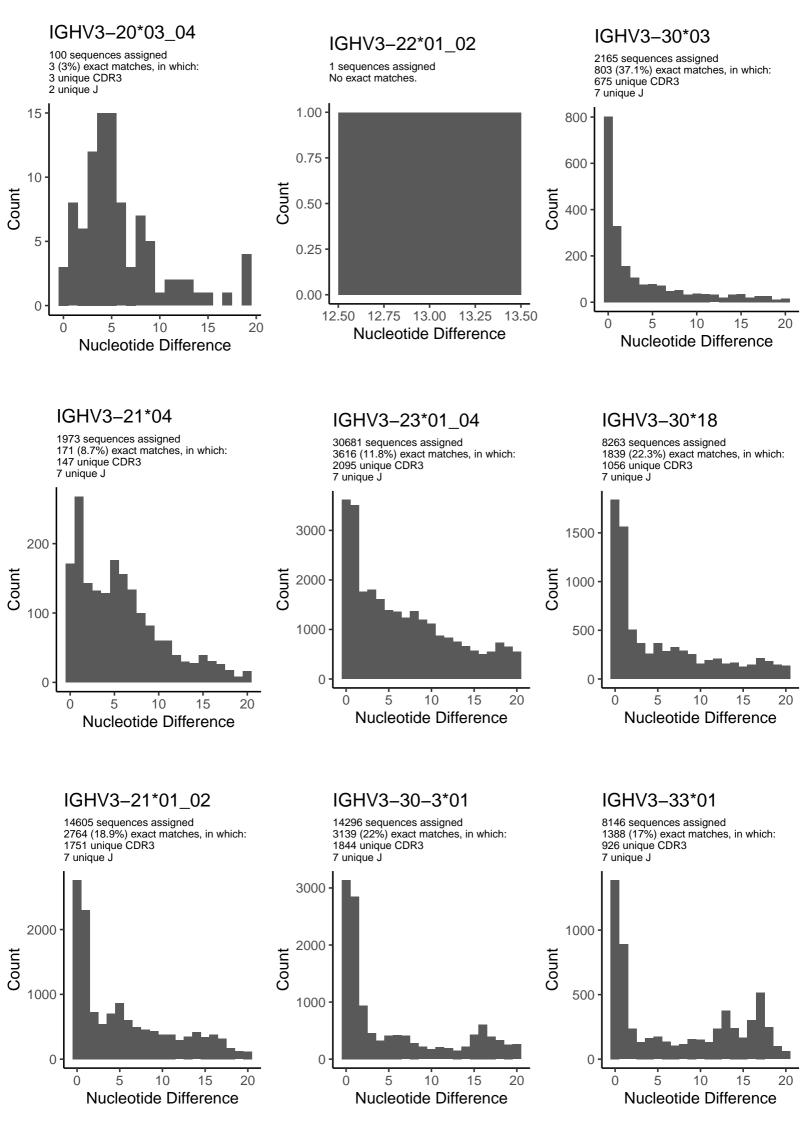
IGHV6-1\*01\_02\_A315G- Final 3 nucleotides as a triplet

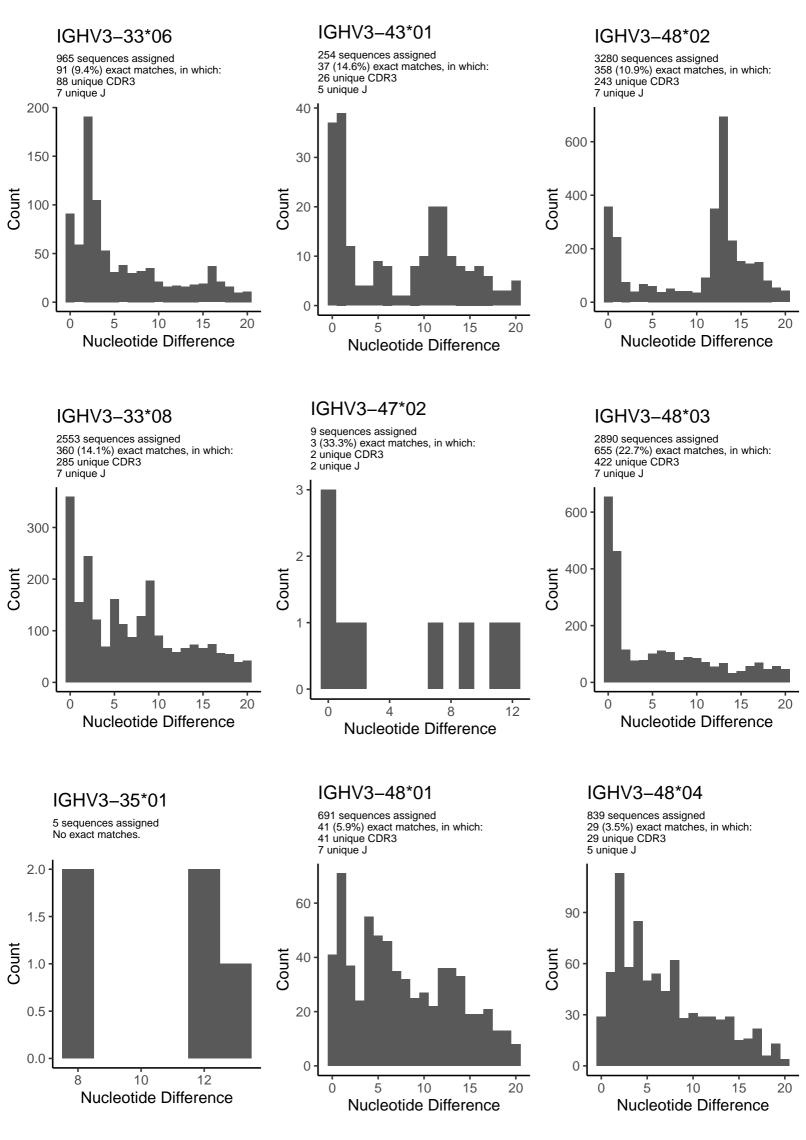


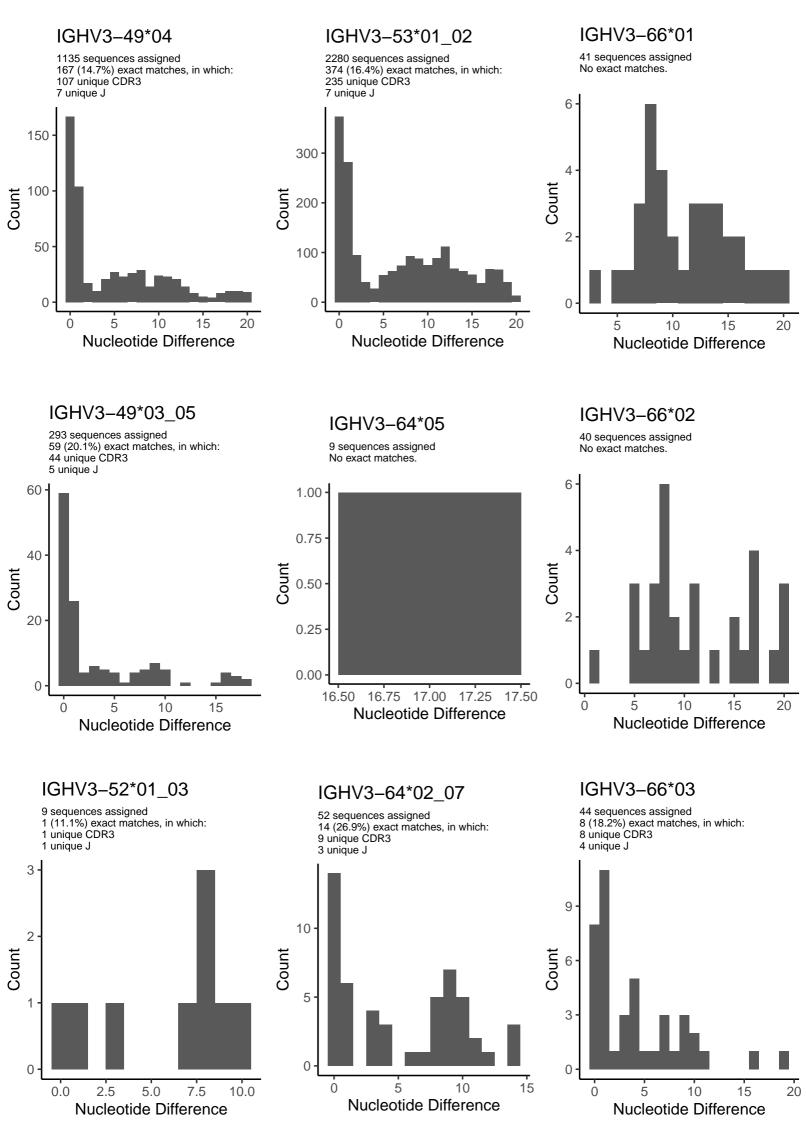


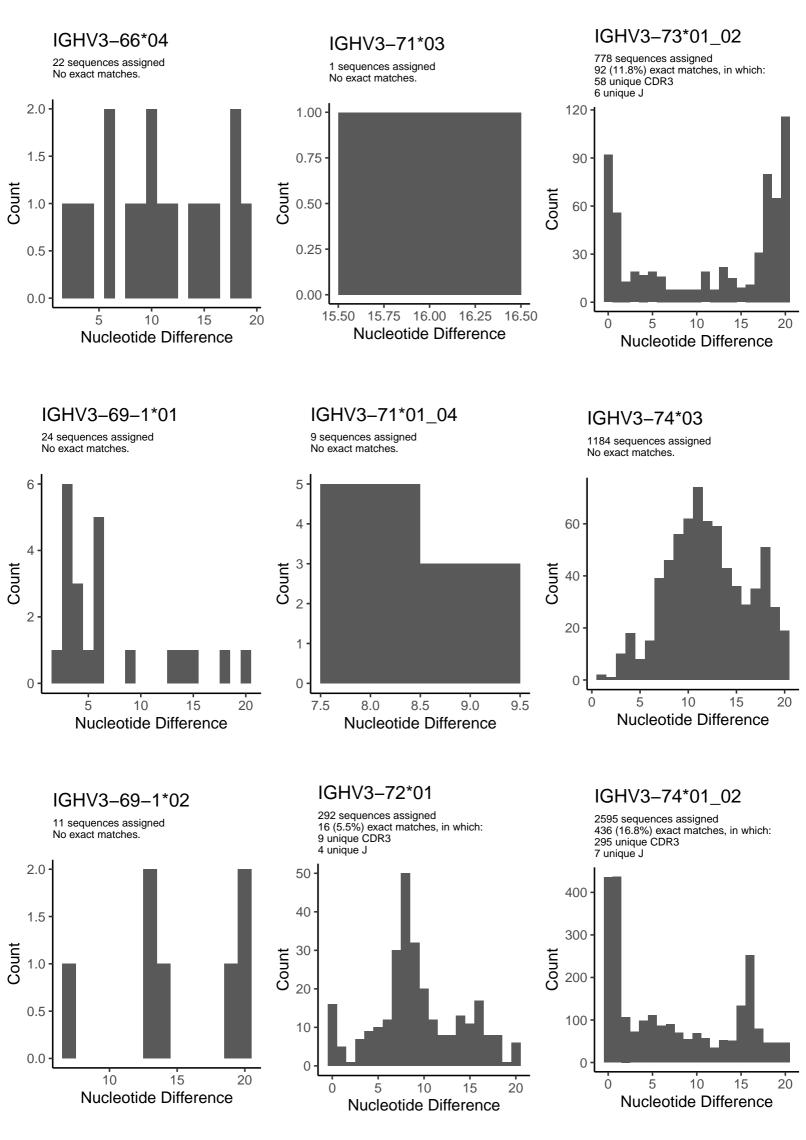


#### IGHV3-9\*01 IGHV3-11\*06 IGHV3-15\*01\_02 3777 sequences assigned 4363 sequences assigned 4727 sequences assigned 970 (20.5%) exact matches, in which: 882 (23.4%) exact matches, in which: 803 (18.4%) exact matches, in which: 529 unique CDR3 540 unique CDR3 558 unique CDR3 7 unique J 7 unique J 7 unique J 1000 800 750 750 600 Count Count 500 500 400 250 250 200 0 0 0 0 10 15 5 10 15 20 5 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-19\*01 IGHV3-11\*01 IGHV3-13\*01 13 sequences assigned 4 (30.8%) exact matches, in which: 3 unique CDR3 2836 sequences assigned 464 sequences assigned 113 (24.4%) exact matches, in which: 447 (15.8%) exact matches, in which: 60 unique CDR3 313 unique CDR3 3 unique J 7 unique J 6 unique J 400 100 3 300 Count Count 2 200 50 1 100 0 0 0 10 15 20 15 20 0 5 0 5 10 10 15 0 5 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-13\*05 IGHV3-20\*01\_02 IGHV3-11\*04 125 sequences assigned 750 sequences assigned 971 sequences assigned 92 (12.3%) exact matches, in which: 45 (36%) exact matches, in which: 85 (8.8%) exact matches, in which: 46 unique CDR3 30 unique CDR3 84 unique CDR3 5 unique J 4 unique J 7 unique J 40 75 100 30 Count 50 20 50 25 10 0 0 0 5 10 15 20 0 10 0 10 15 20 5 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

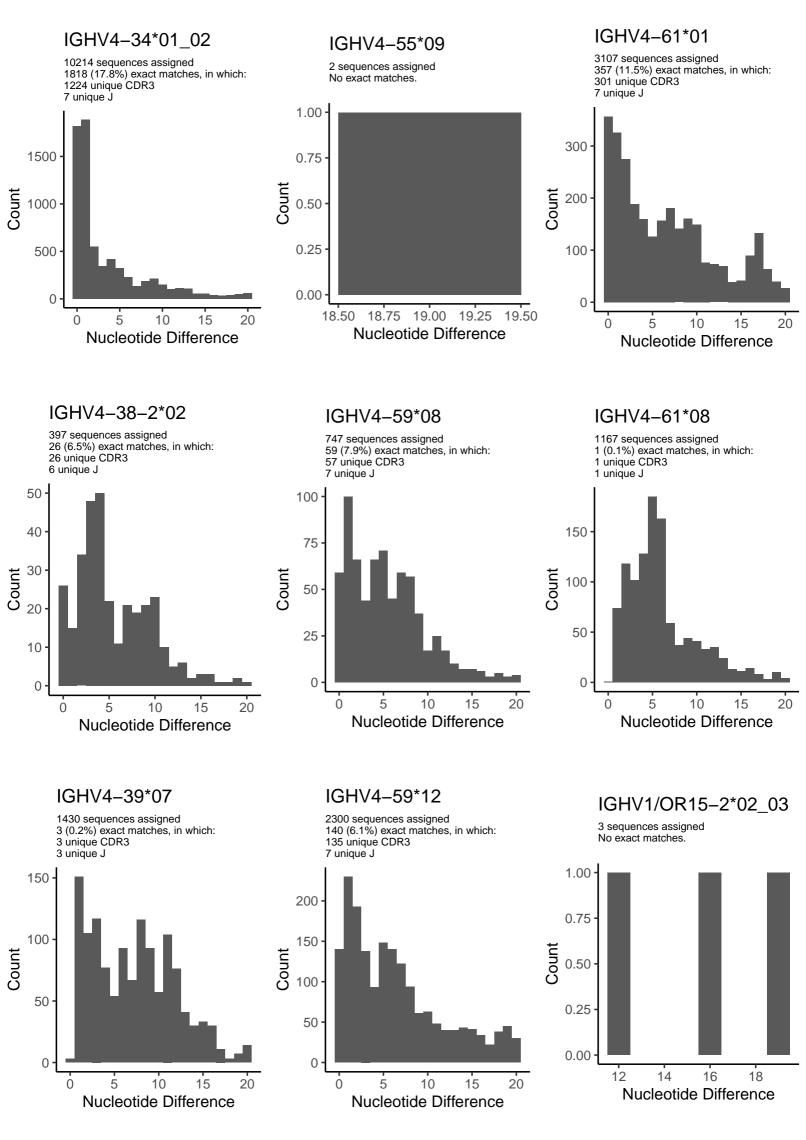


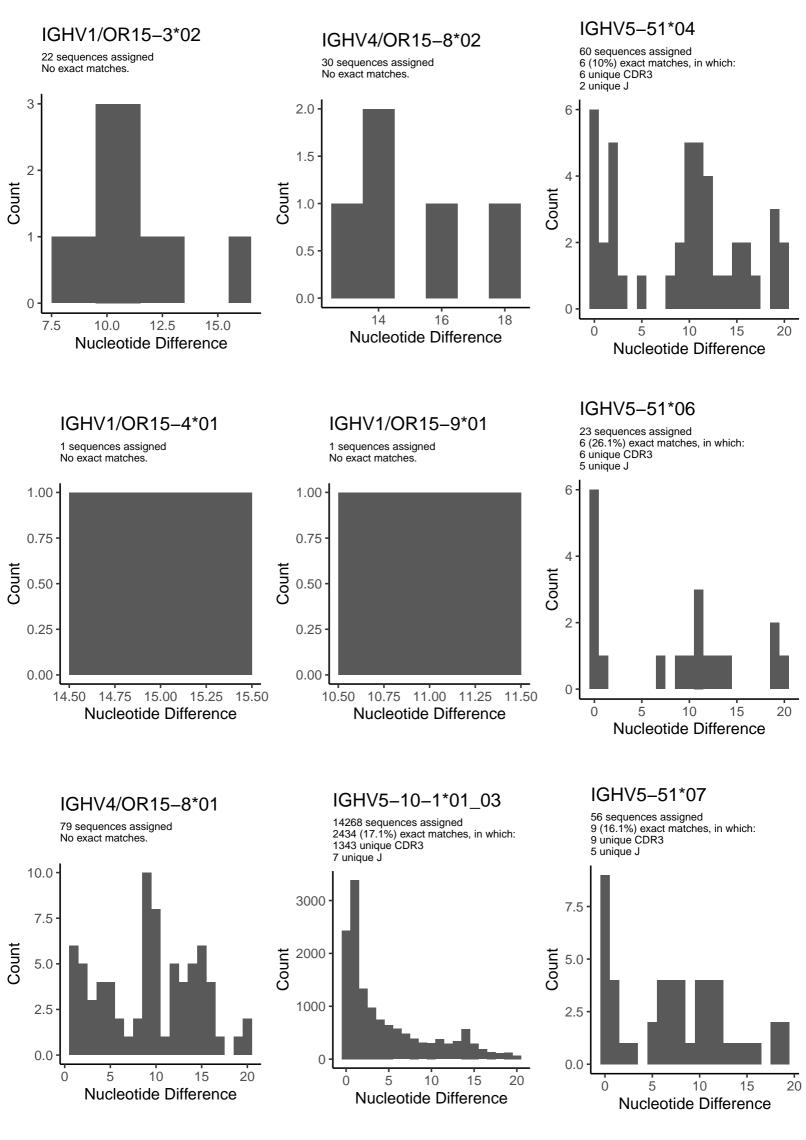






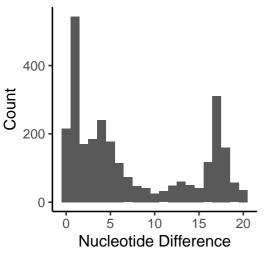
#### IGHV3-43D\*04 IGHV4-30-2\*01 IGHV4-4\*02 03 172 sequences assigned 21 (12.2%) exact matches, in which: 4256 sequences assigned 613 (14.4%) exact matches, in which: 6162 sequences assigned 1208 (19.6%) exact matches, in which: 14 unique CDR3 414 unique CDR3 853 unique CDR3 3 unique J 7 unique J 7 unique J 1250 800 -20 1000 600 15 750 Count Count 400 10 500 200 5 250 0 0 0 0 10 15 20 5 10 15 20 0 10 0 5 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-28\*03 IGHV3-64D\*06 IGHV4-30-4\*01 28 sequences assigned 1 (3.6%) exact matches, in which: 3839 sequences assigned 542 (14.1%) exact matches, in which: 1979 sequences assigned 572 (28.9%) exact matches, in which: 1 unique CDR3 262 unique CDR3 366 unique CDR3 1 unique J 7 unique J 7 unique J 600 600 3 400 Count Count 400 2 200 200 1 0 0 0 20 10 15 10 15 20 0 5 0 5 10 15 0 5 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-28\*01\_07 IGHV3-NL1\*01 IGHV4-31\*02 23 sequences assigned 73 sequences assigned 8259 sequences assigned 5 (21.7%) exact matches, in which: No exact matches. 873 (10.6%) exact matches, in which: 2 unique CDR3 667 unique CDR3 2 unique J 7 unique J 6 750 Count Count 500 2 250 2 0 0 10 5 10 15 20 15 20 0 5 10 0 5 15 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference





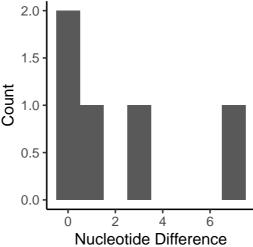
## IGHV6-1\*01\_02

2850 sequences assigned 216 (7.6%) exact matches, in which: 168 unique CDR3 6 unique J



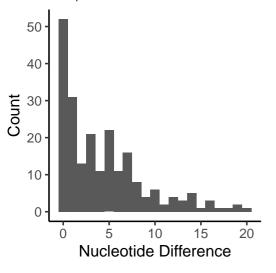
### IGHV7-81\*01

5 sequences assigned 2 (40%) exact matches, in which: 2 unique CDR3 2 unique J



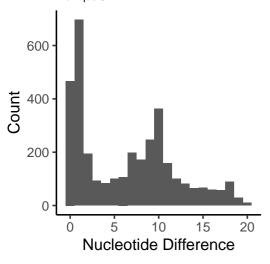
### IGHV6-1\*01\_02\_A315G

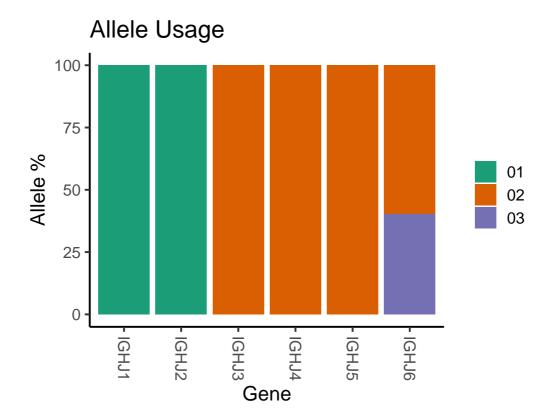
223 sequences assigned 52 (23.3%) exact matches, in which: 52 unique CDR3 7 unique J



### IGHV7-4-1\*02

3623 sequences assigned 467 (12.9%) exact matches, in which: 360 unique CDR3 7 unique J





# Sequence Count by IGHJ6 allele usage

