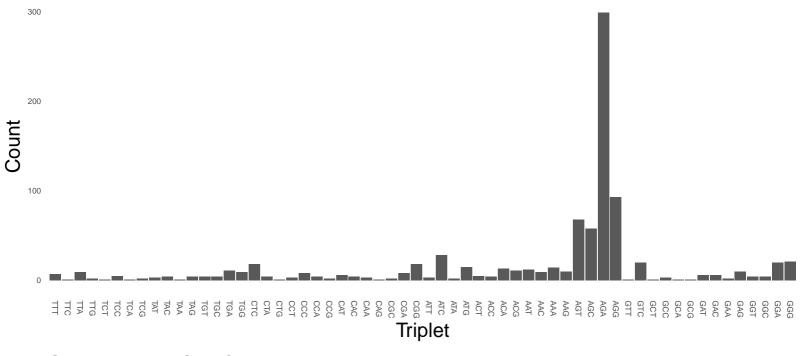
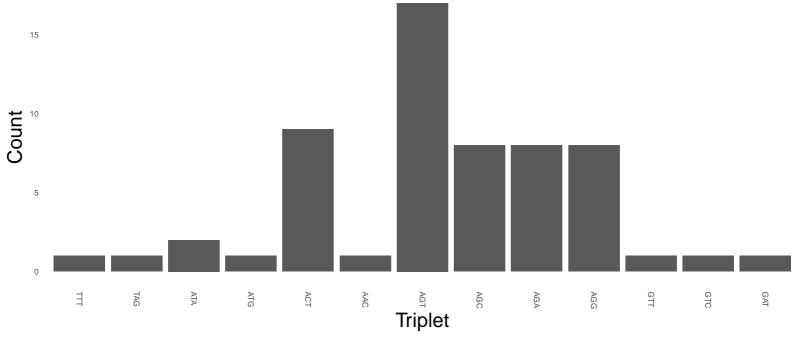


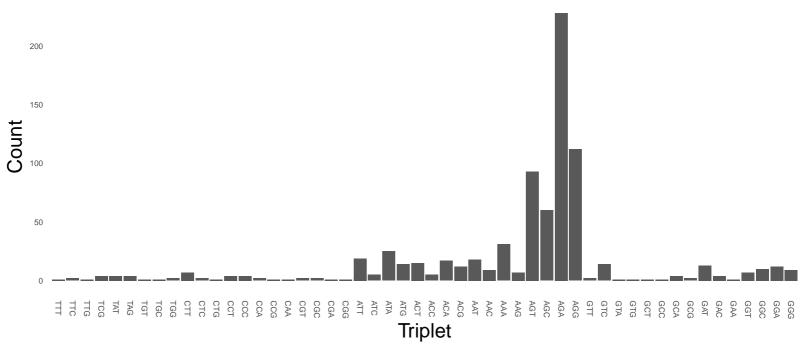
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

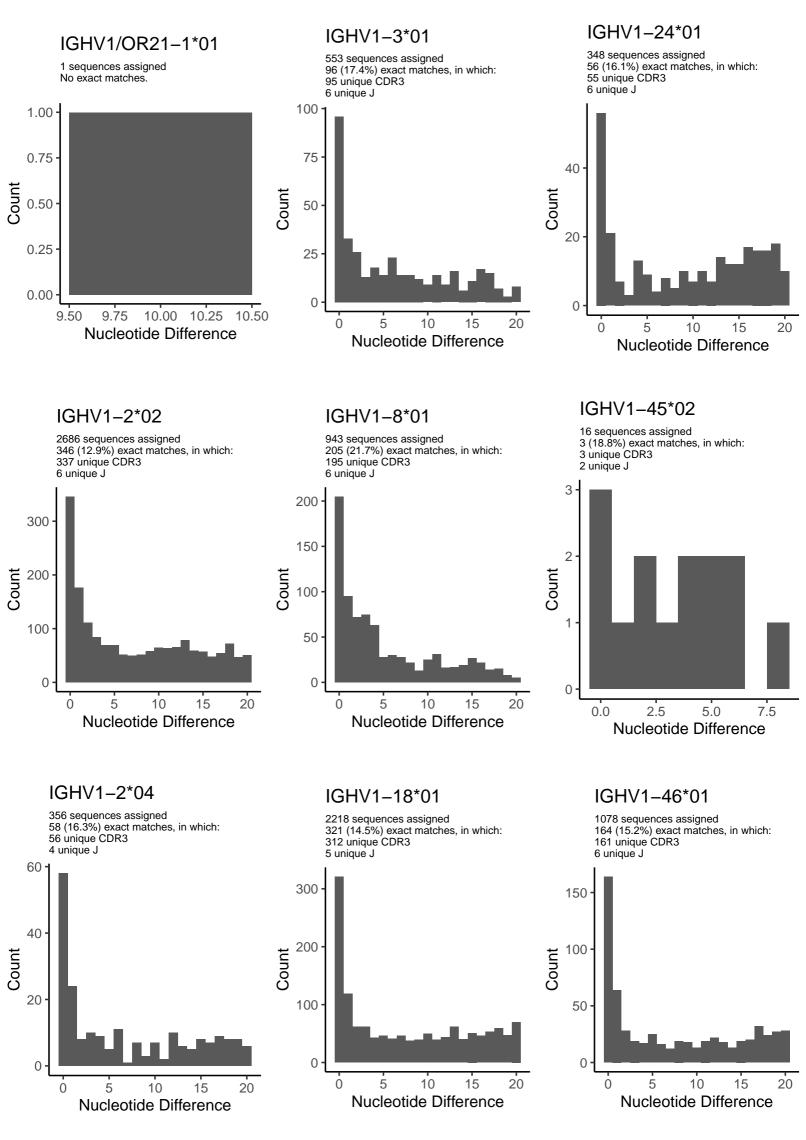


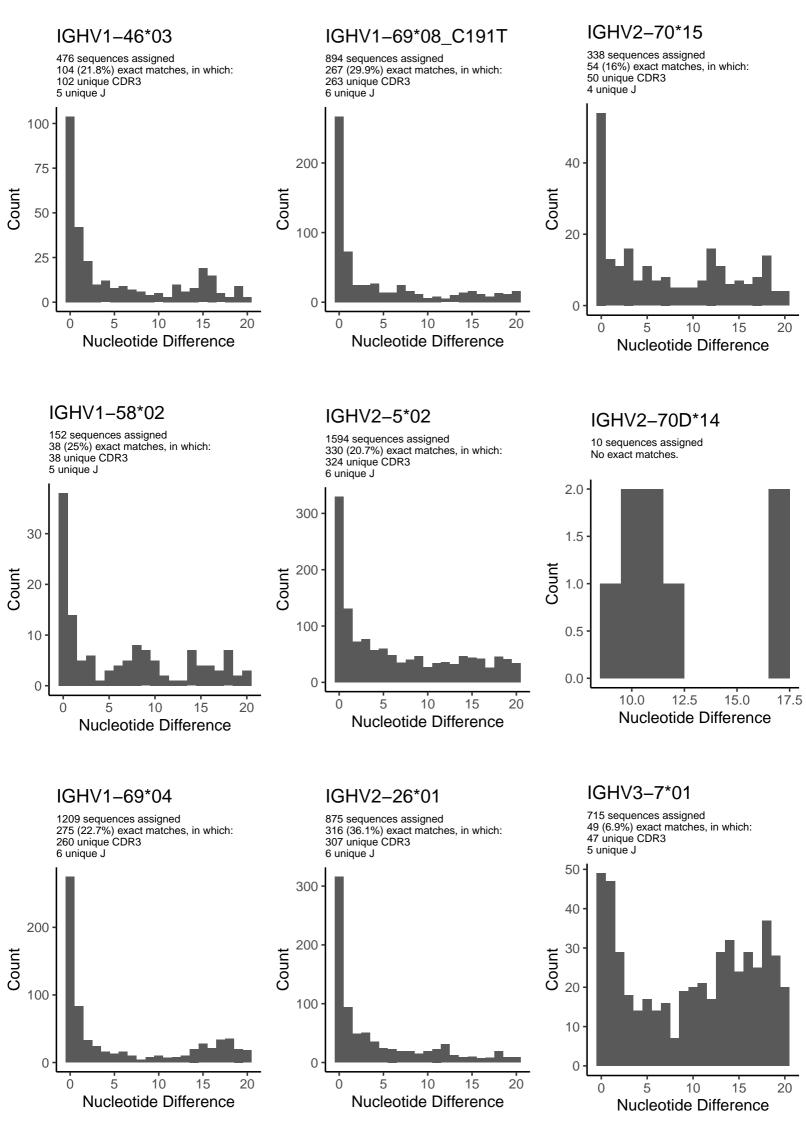
IGHV4-30-2*01_G139C- Final 3 nucleotides as a triplet



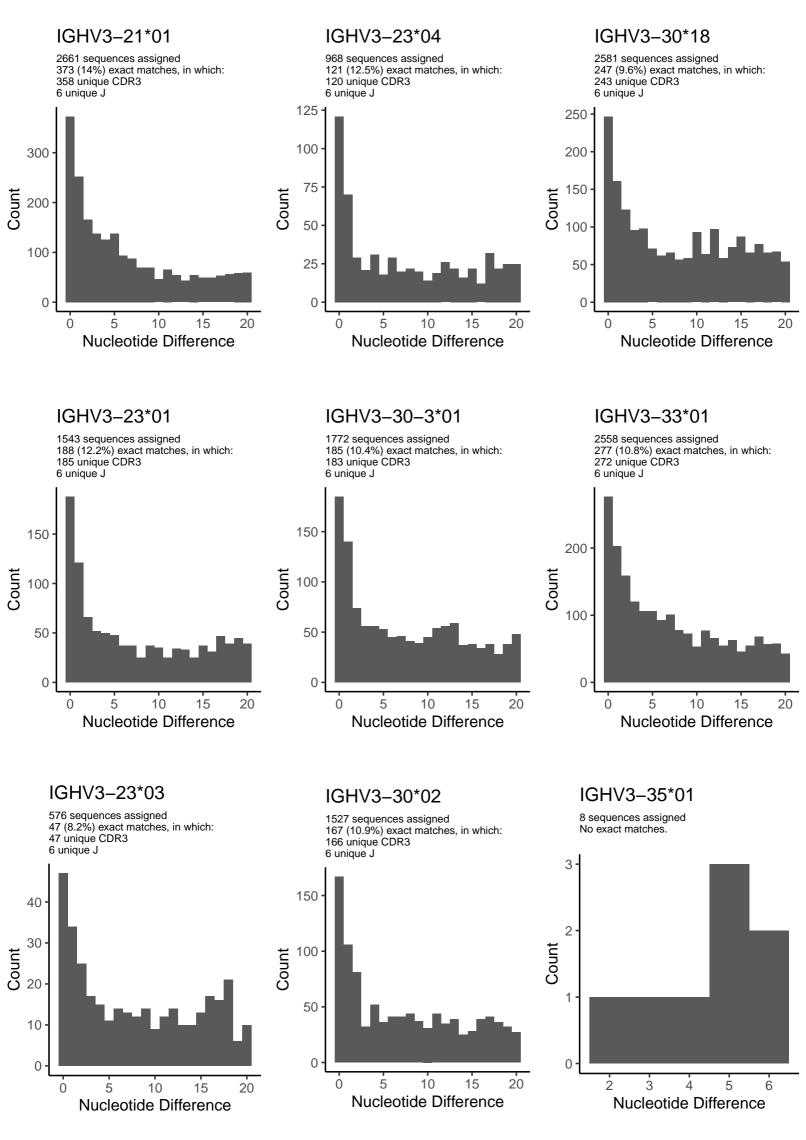
IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet

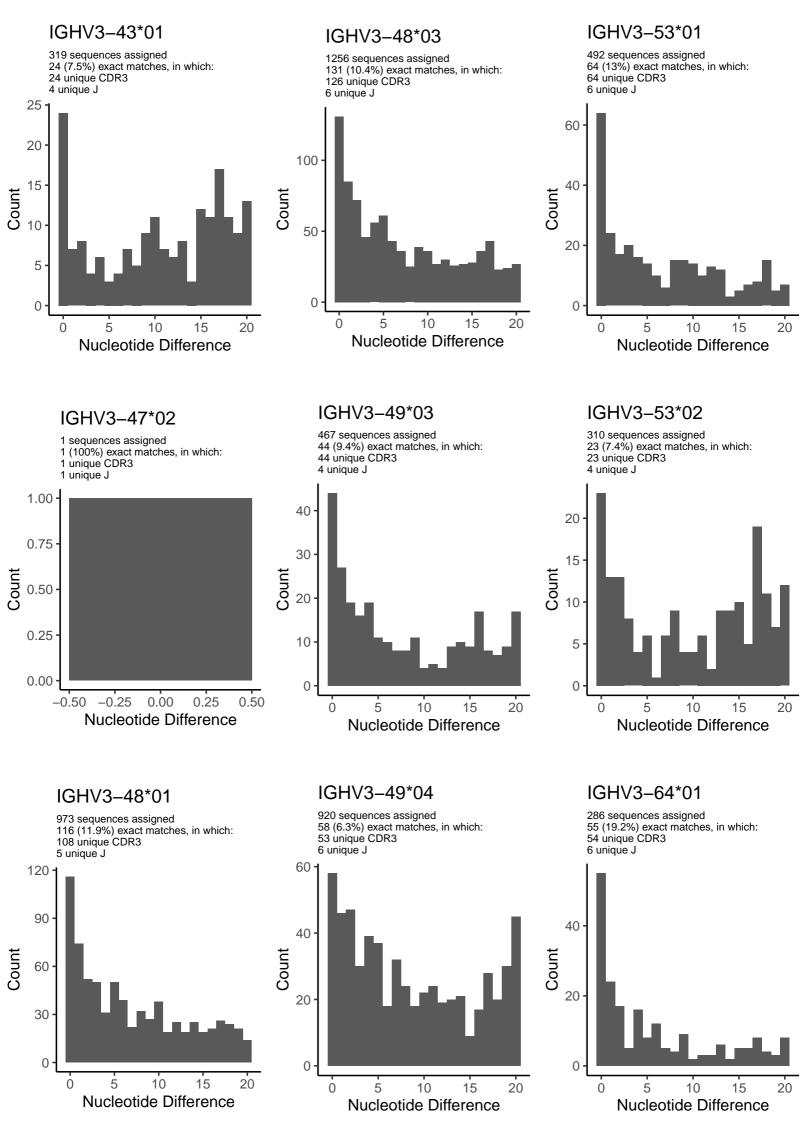


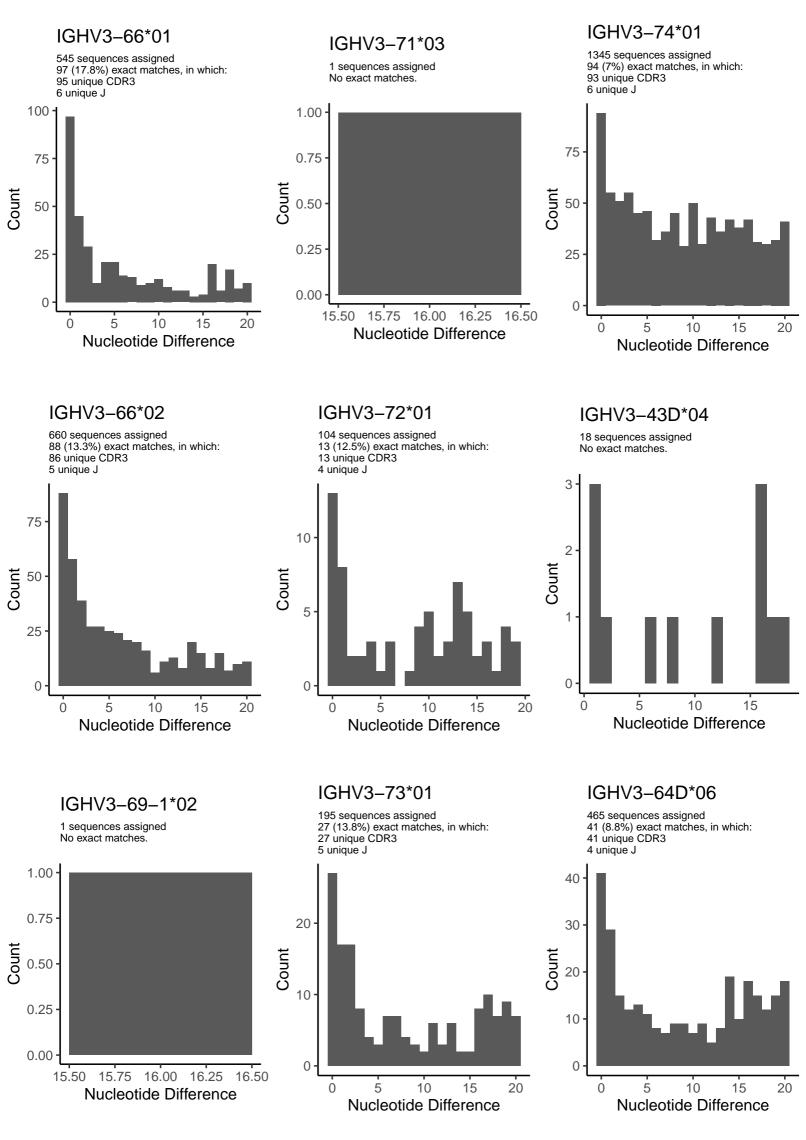


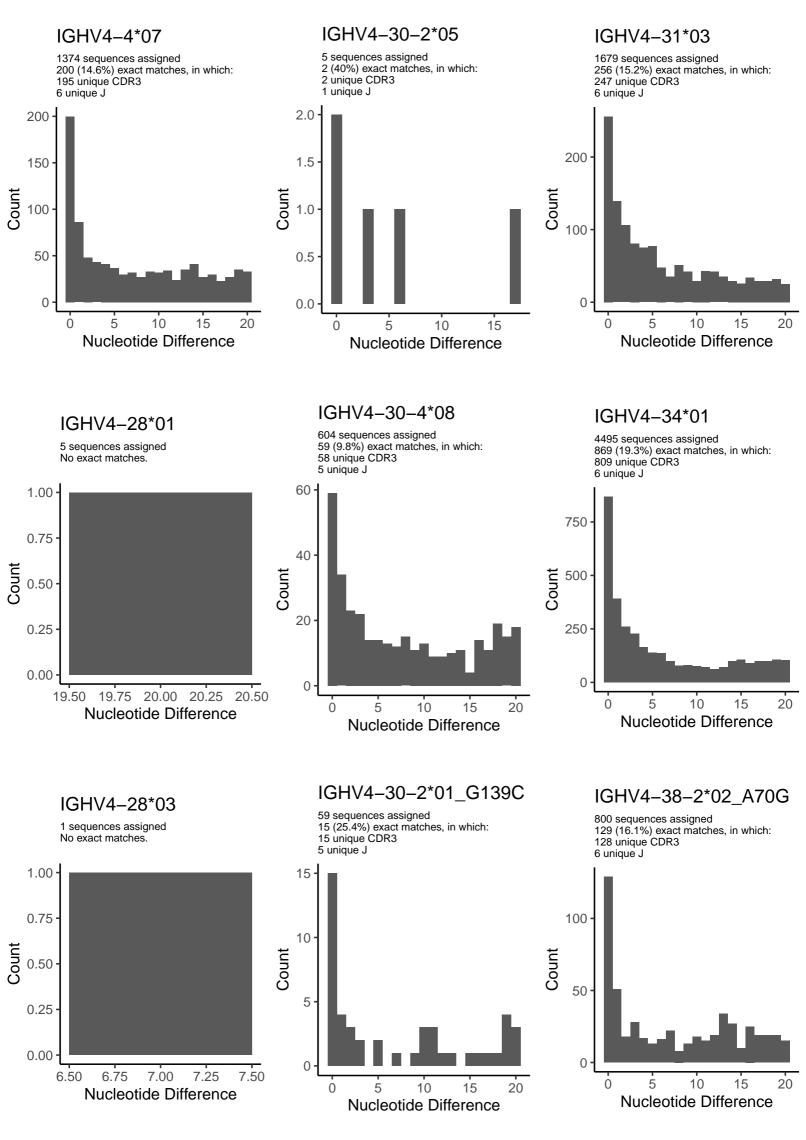


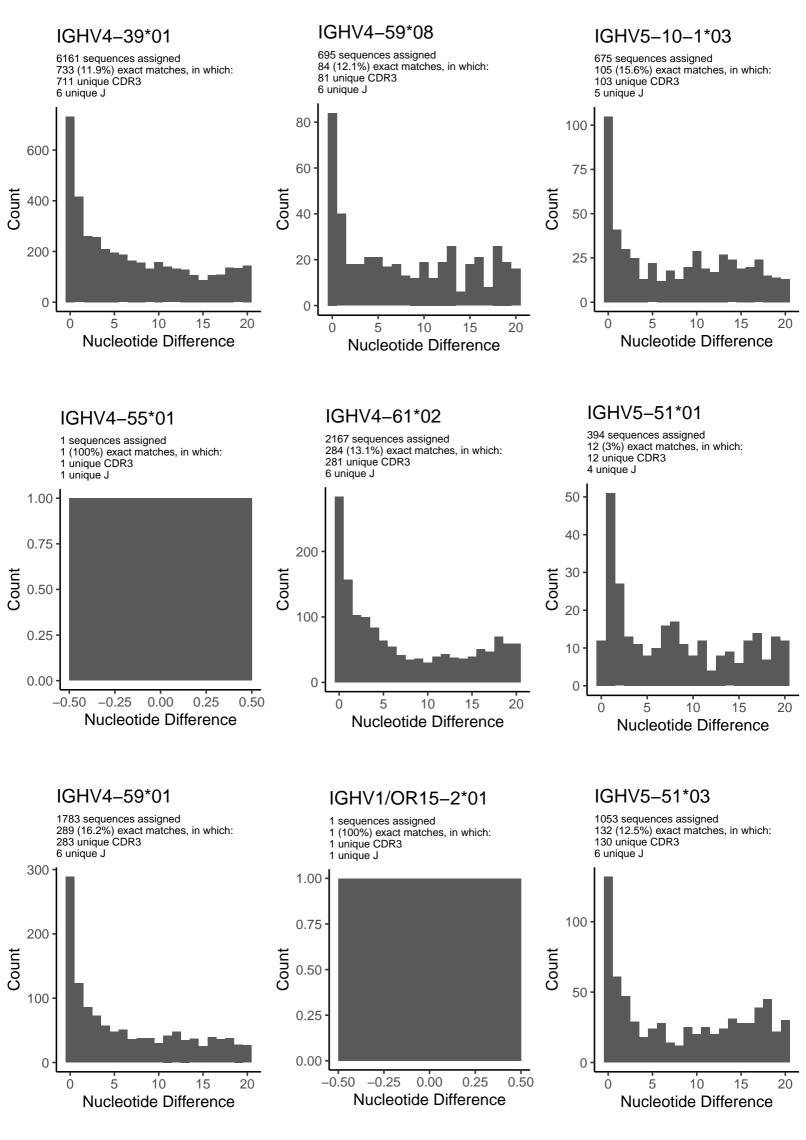
IGHV3-7*04 IGHV3-11*06 IGHV3-19*01 575 sequences assigned 363 sequences assigned 36 (9.9%) exact matches, in which: 47 (8.2%) exact matches, in which: 1 sequences assigned 36 unique CDR3 47 unique CDR3 No exact matches. 4 unique J 4 unique J 1.00 40 30 0.75 30 Count 20 Count 0.50 0.25 10 10 0.00 0 0 4.50 3.75 4.00 4.25 3.50 10 10 15 0 15 20 0 5 **Nucleotide Difference Nucleotide Difference Nucleotide Difference** IGHV3-13*05 IGHV3-20*01 IGHV3-9*01 41 sequences assigned 7 (17.1%) exact matches, in which: 7 unique CDR3 65 sequences assigned 11 (16.9%) exact matches, in which: 11 unique CDR3 1567 sequences assigned 120 (7.7%) exact matches, in which: 117 unique CDR3 3 unique J 4 unique J 6 unique J 125 6 9 100 75 Count Count Count 50 2 3 25 0 0 0 10 15 20 0 5 10 15 10 0 5 20 0 5 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-11*04 IGHV3-20*04 IGHV3-15*01 704 sequences assigned 337 sequences assigned 1684 sequences assigned 50 (7.1%) exact matches, in which: 33 (9.8%) exact matches, in which: 210 (12.5%) exact matches, in which: 50 unique CDR3 32 unique CDR3 207 unique CDR3 6 unique J 5 unique J 6 unique J 50 200 30 40 150 20 30 Count Count 100 20 10 50 10 0 0 0 20 5 10 15 0 5 10 15 20 0 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference





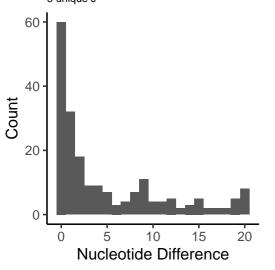






IGHV6-1*01

257 sequences assigned 60 (23.3%) exact matches, in which: 57 unique CDR3 6 unique J



IGHV7-4-1*01

2 sequences assigned 1 (50%) exact matches, in which: 1 unique CDR3 1 unique J

