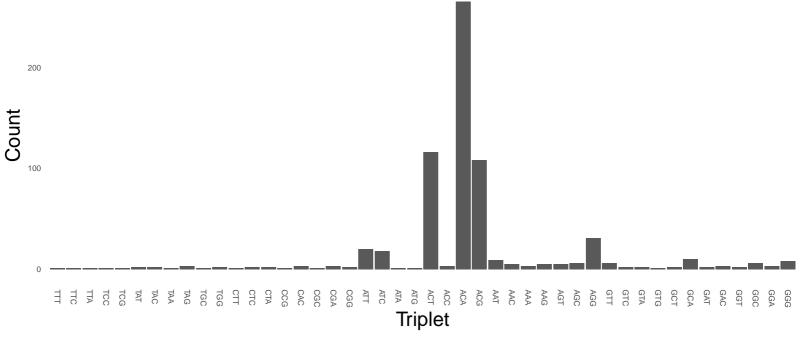
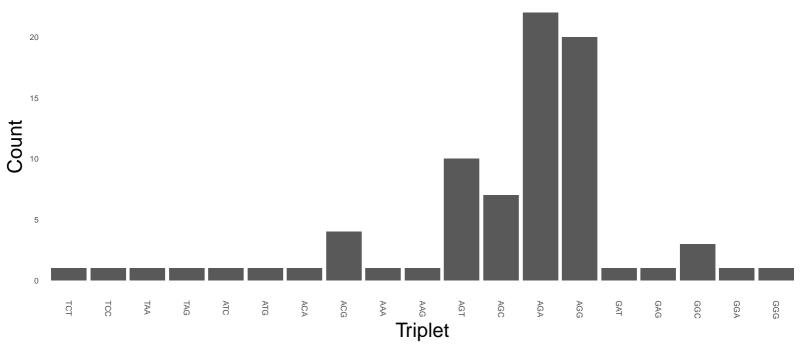
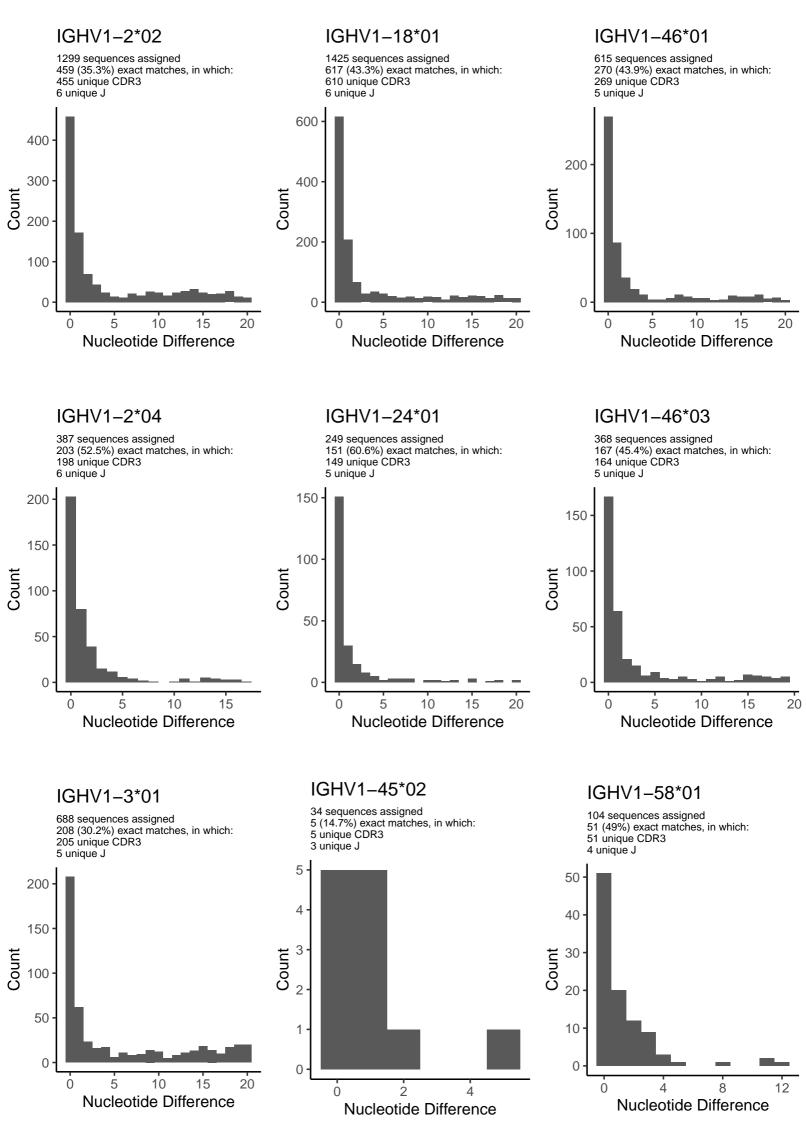


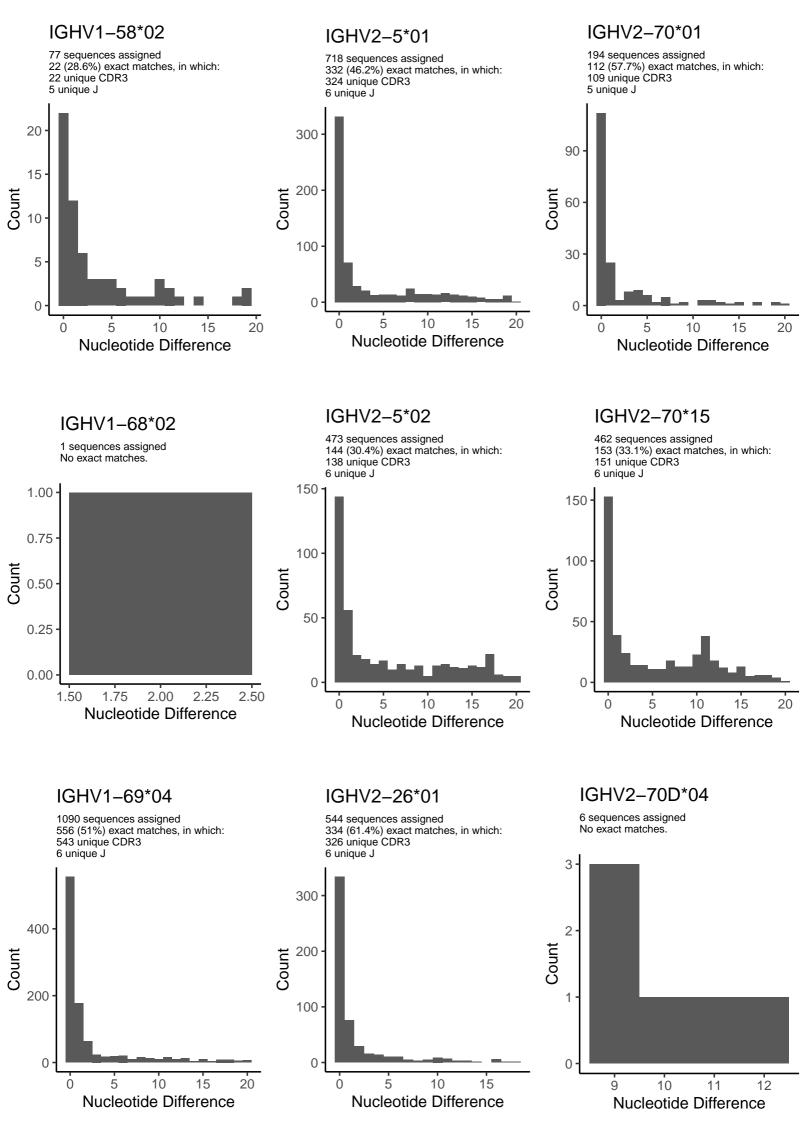
IGHV4-59*08_A291G- Final 3 nucleotides as a triplet



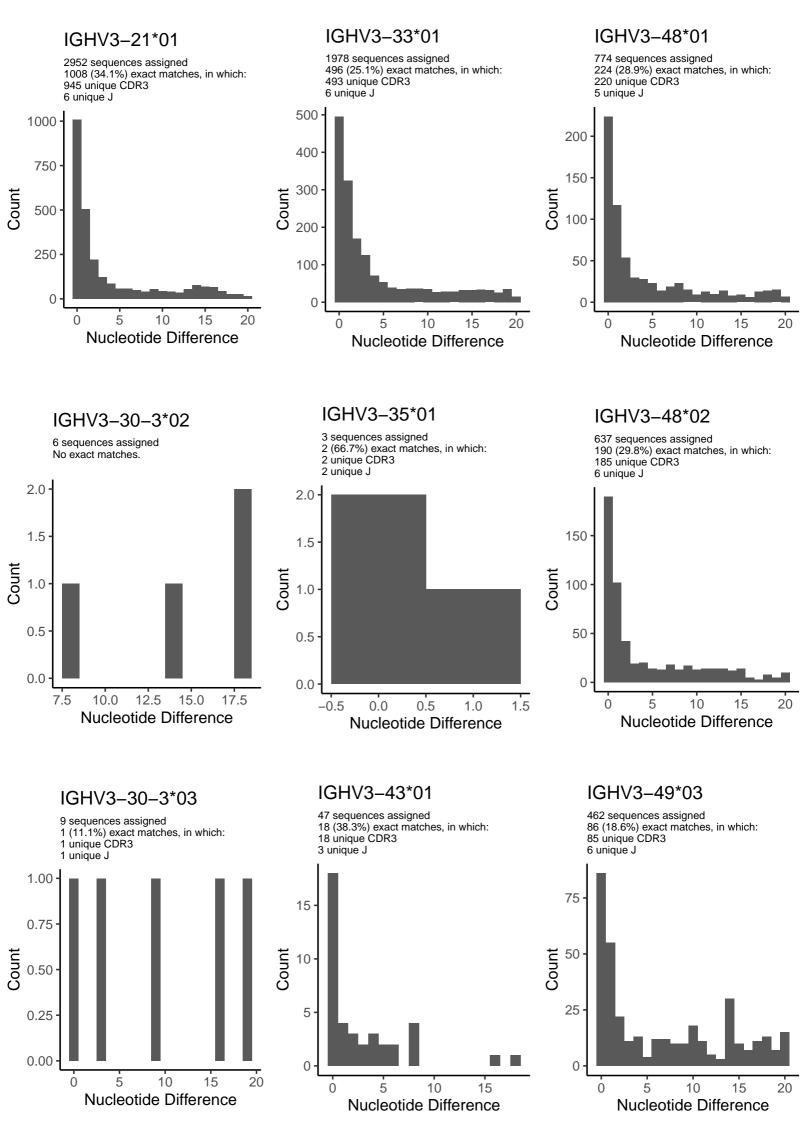
IGHV3-13*01_G290A_T300C- Final 3 nucleotides as a triplet

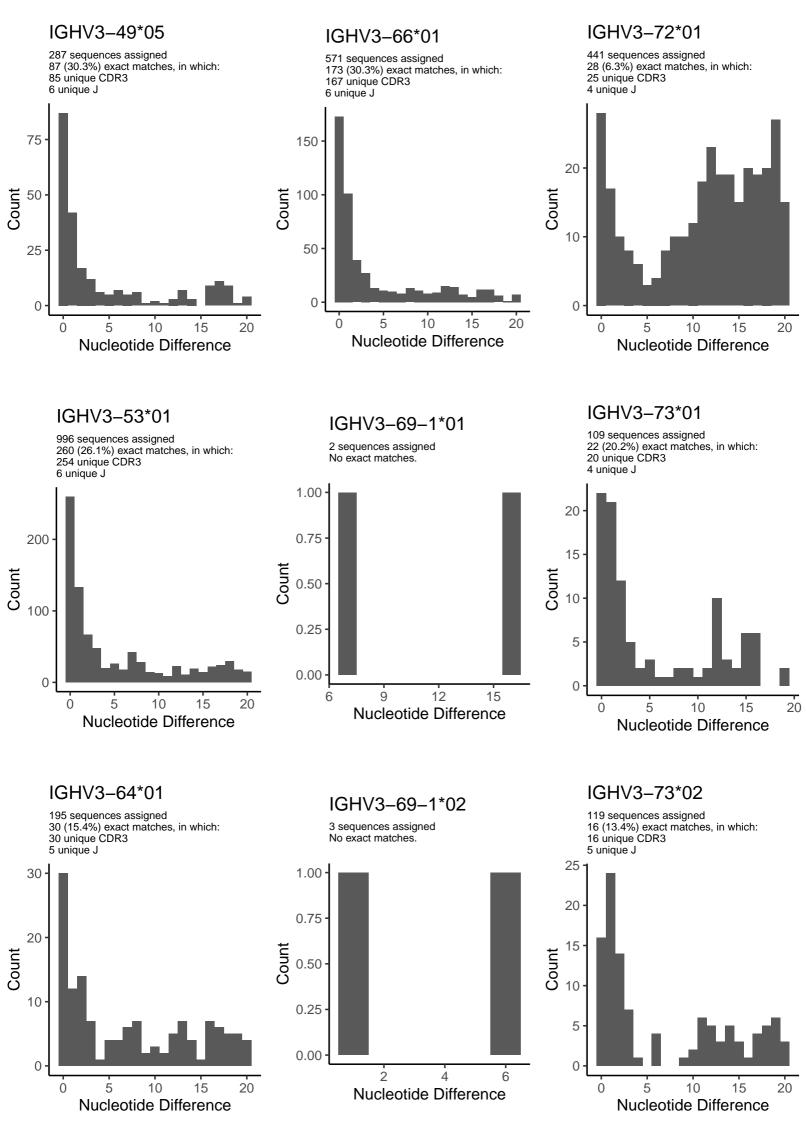


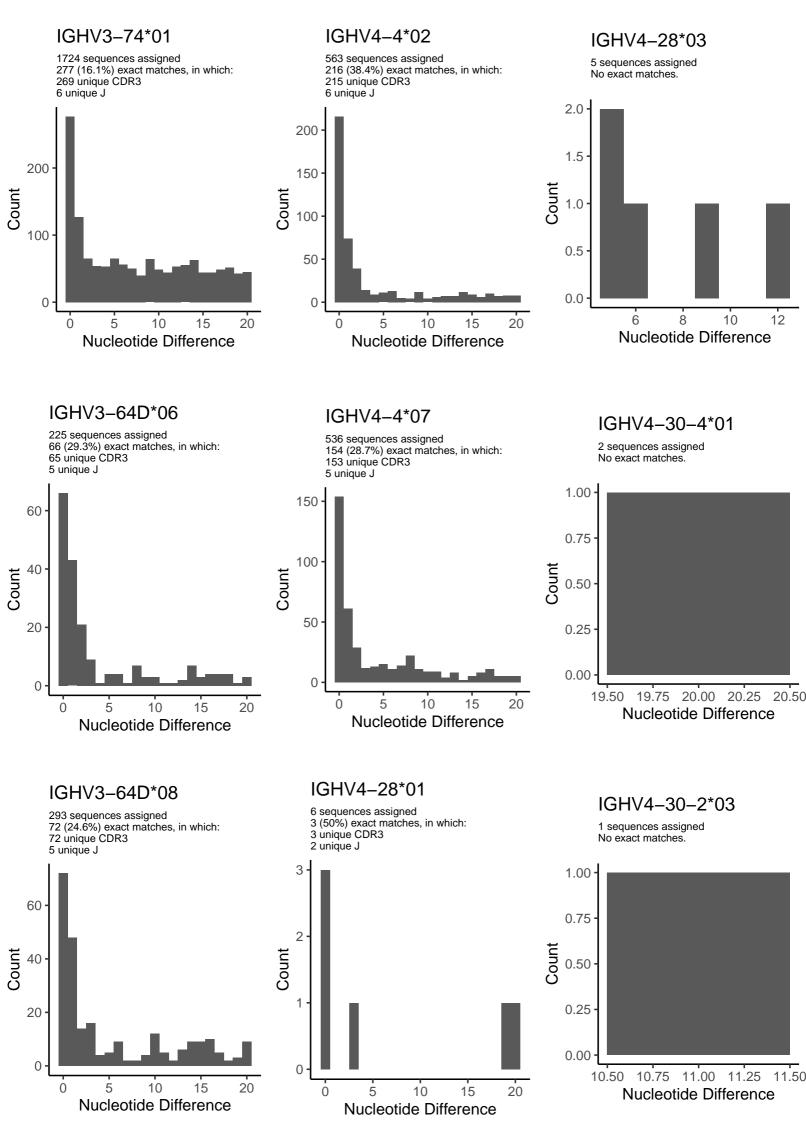


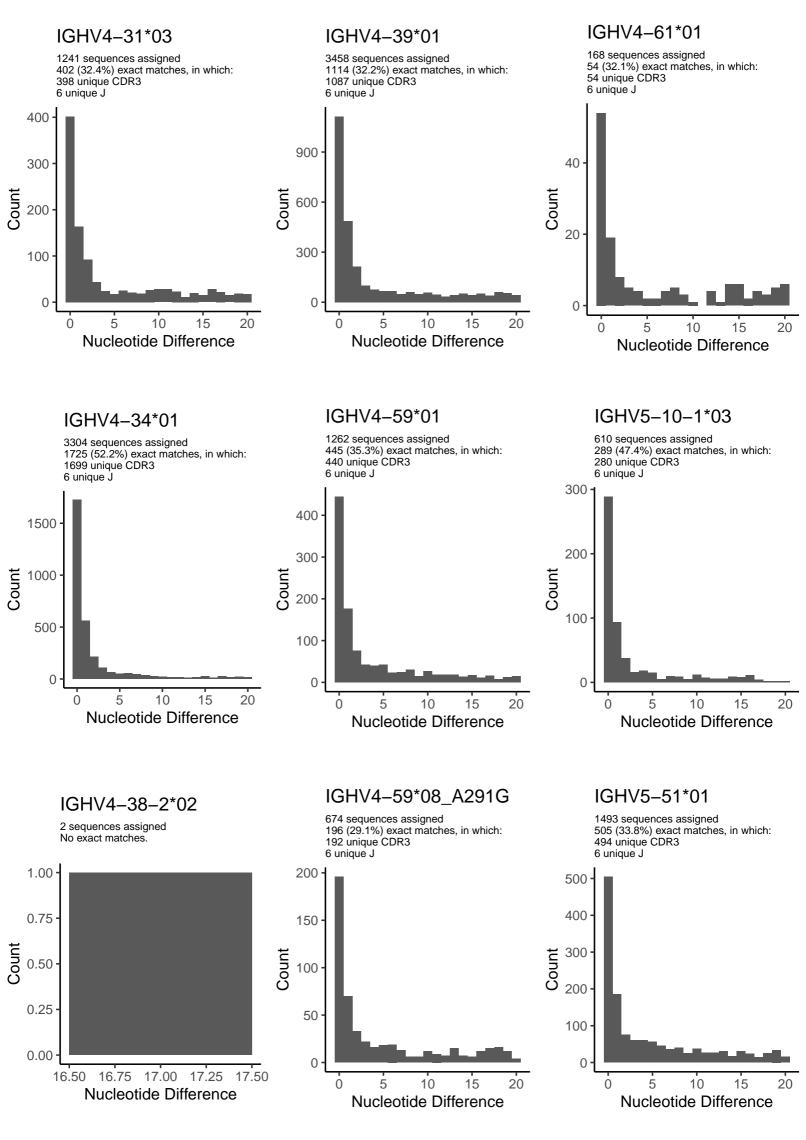


IGHV3-7*03 IGHV3-13*05 IGHV3-15*07 849 sequences assigned 103 sequences assigned 1063 sequences assigned 109 (12.8%) exact matches, in which: 15 (14.6%) exact matches, in which: 294 (27.7%) exact matches, in which: 107 unique CDR3 15 unique CDR3 287 unique CDR3 5 unique J 5 unique J 6 unique J 15 300 90 200 10 Count Count 100 5 30 0 0 0 5 10 15 0 10 0 20 0 15 20 5 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-7*05 IGHV3-13*01_G290A_T3(IGHV3-20*01 351 sequences assigned 79 sequences assigned 35 sequences assigned 25 (31.6%) exact matches, in which: 16 (45.7%) exact matches, in which: 84 (23.9%) exact matches, in which: 24 unique CDR3 16 unique CDR3 79 unique CDR3 5 unique J 5 unique J 3 unique J 25 80 15 20 60 15 Count Count 40 10 5 20 5 0 0 0 10 10 15 20 10 15 0 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11*06 IGHV3-15*01 IGHV3-20*04 588 sequences assigned 1025 sequences assigned 49 sequences assigned 111 (18.9%) exact matches, in which: 201 (19.6%) exact matches, in which: 12 (24.5%) exact matches, in which: 108 unique CDR3 195 unique CDR3 12 unique CDR3 5 unique J 6 unique J 3 unique J 12.5 200 90 10.0 150 7.5 Count Count 100 5.0 30 50 2.5 0.0 0 0 5 20 10 15 10 0 5 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**



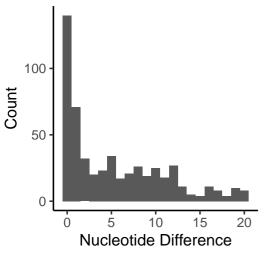






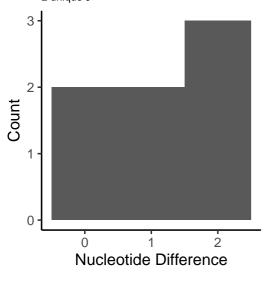
IGHV6-1*01

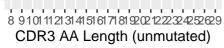
592 sequences assigned 140 (23.6%) exact matches, in which: 138 unique CDR3 5 unique J

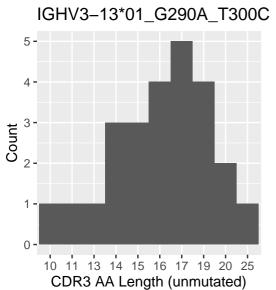


IGHV7-4-1*01

7 sequences assigned 2 (28.6%) exact matches, in which: 2 unique CDR3 2 unique J









Training the interior dequences loans.	
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