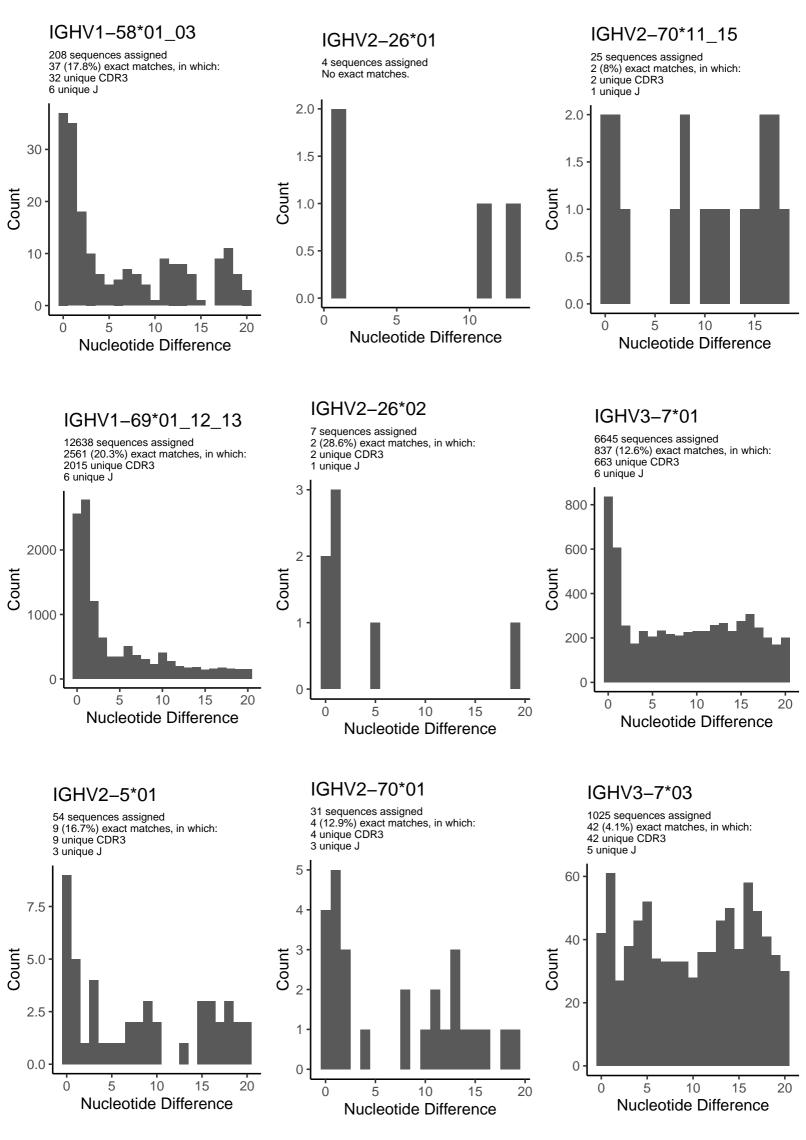
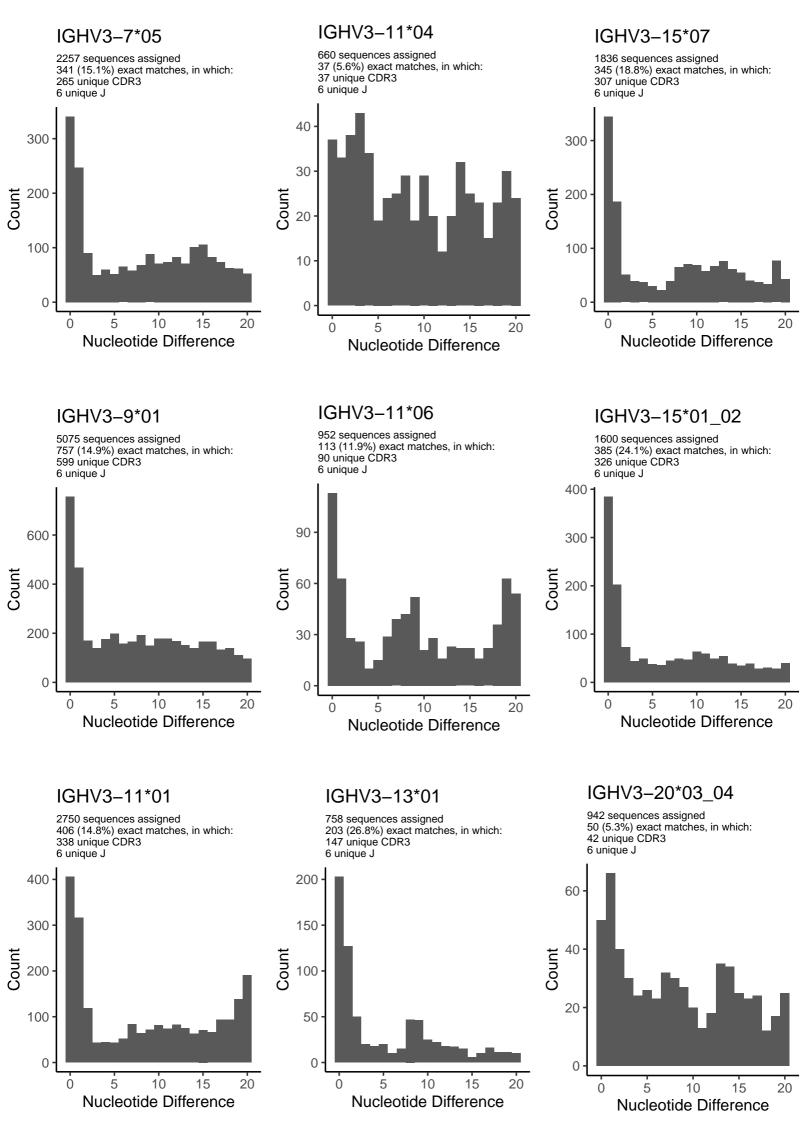
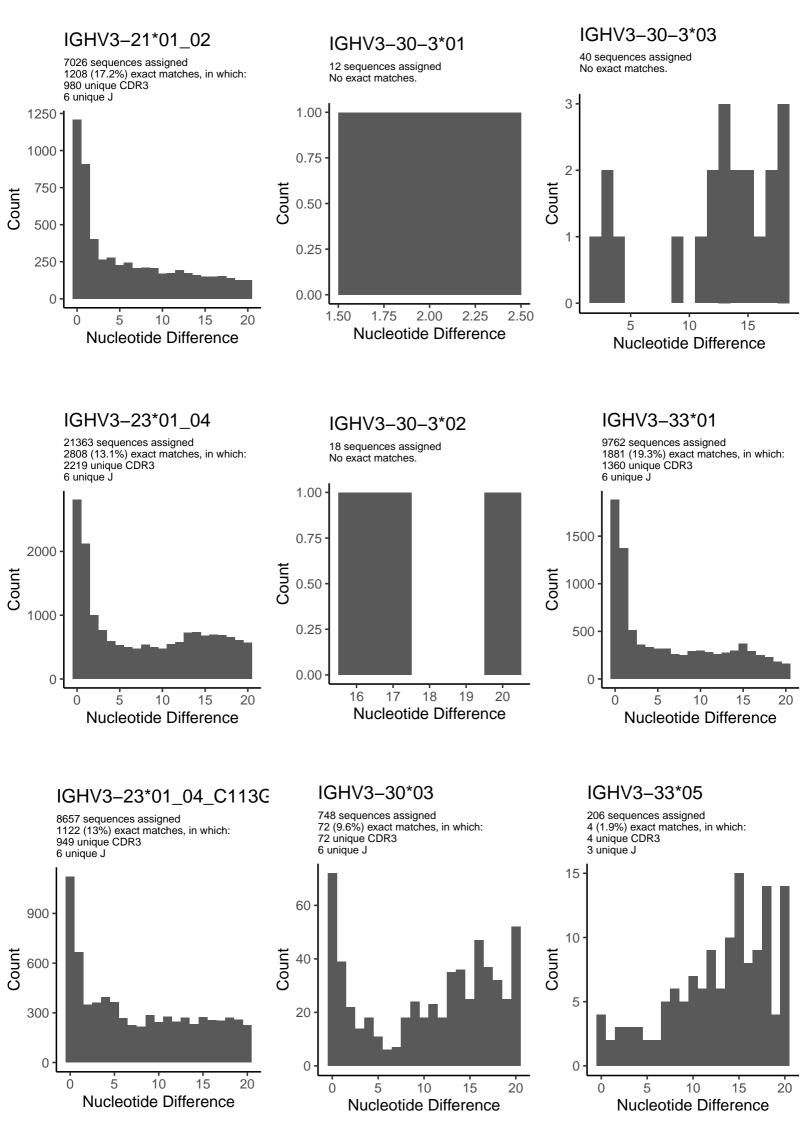
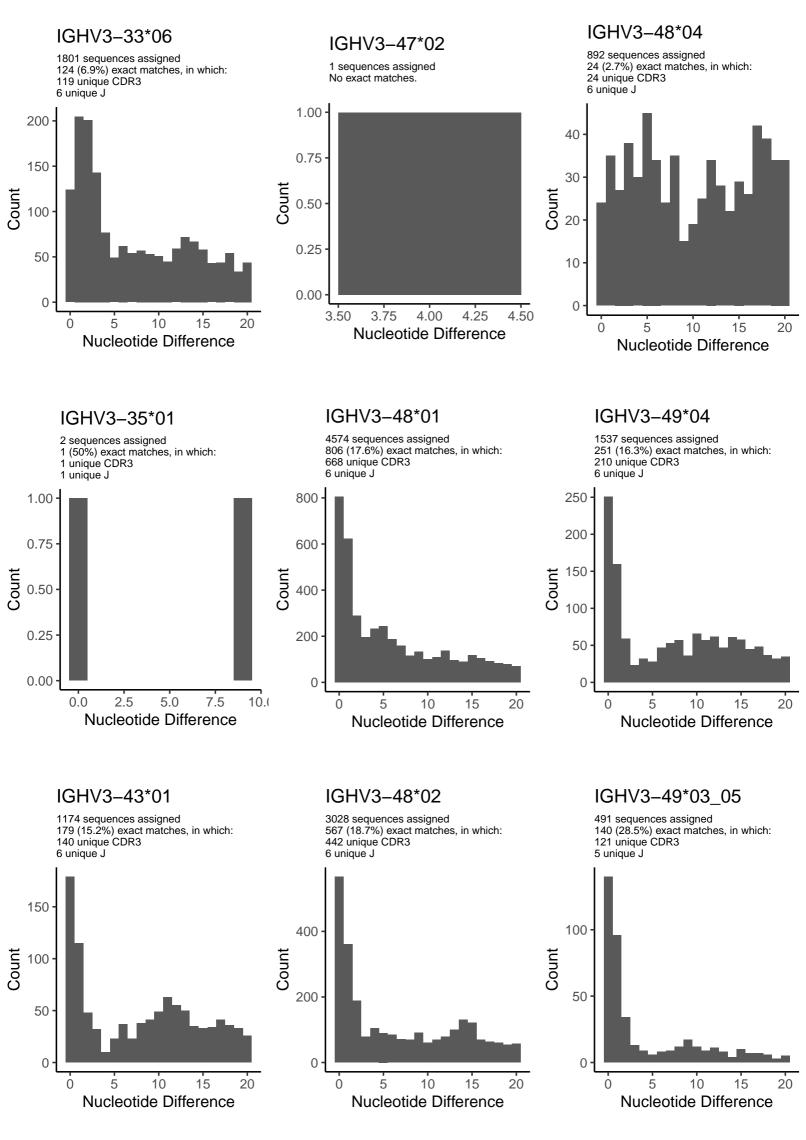
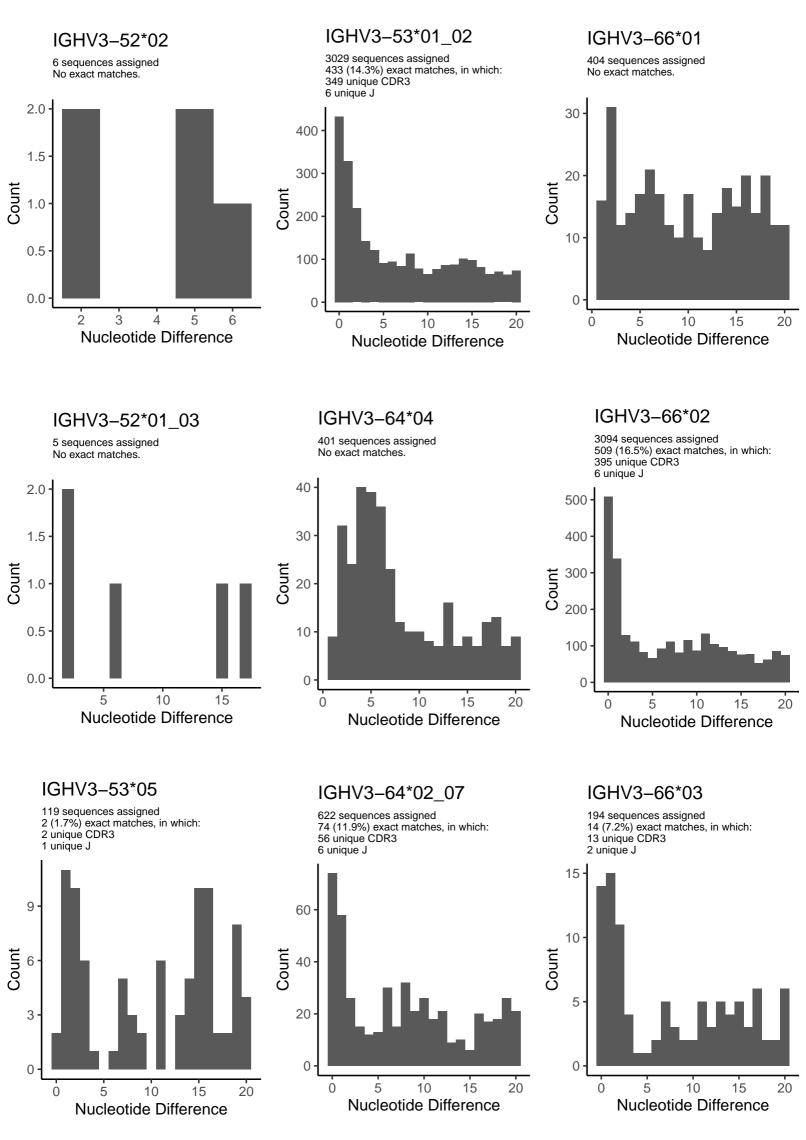
IGHV1-45*02 IGHV1-2*02 IGHV1-8*01 53 sequences assigned 7115 sequences assigned 4914 sequences assigned 9 (17%) exact matches, in which: 1140 (16%) exact matches, in which: 916 unique CDR3 975 (19.8%) exact matches, in which: 9 unique CDR3 780 unique CDR3 3 unique J 6 unique J 6 unique J 1000 9 900 750 Count Count 6 600 500 300 250 3 0 0 0 0 10 15 20 5 10 15 20 0 0 10 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV1-2*06 IGHV1-46*01 IGHV1-18*01 4911 sequences assigned 4476 sequences assigned 19384 sequences assigned 2831 (14.6%) exact matches, in which: 726 (16.2%) exact matches, in which: 678 (13.8%) exact matches, in which: 609 unique CDR3 561 unique CDR3 2132 unique CDR3 6 unique J 6 unique J 6 unique J 600 600 3000 400 Count Count 400 2000 200 1000 200 0 0 0 0 10 15 20 10 15 20 10 15 20 0 5 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-58*02 IGHV1-3*01_05 IGHV1-24*01 93 sequences assigned 737 sequences assigned 651 sequences assigned 10 (10.8%) exact matches, in which: 167 (22.7%) exact matches, in which: 152 (23.3%) exact matches, in which: 9 unique CDR3 139 unique CDR3 138 unique CDR3 3 unique J 6 unique J 6 unique J 20 150 15 100 100 10 50 50 5 0 0 0 10 15 20 10 15 0 0 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

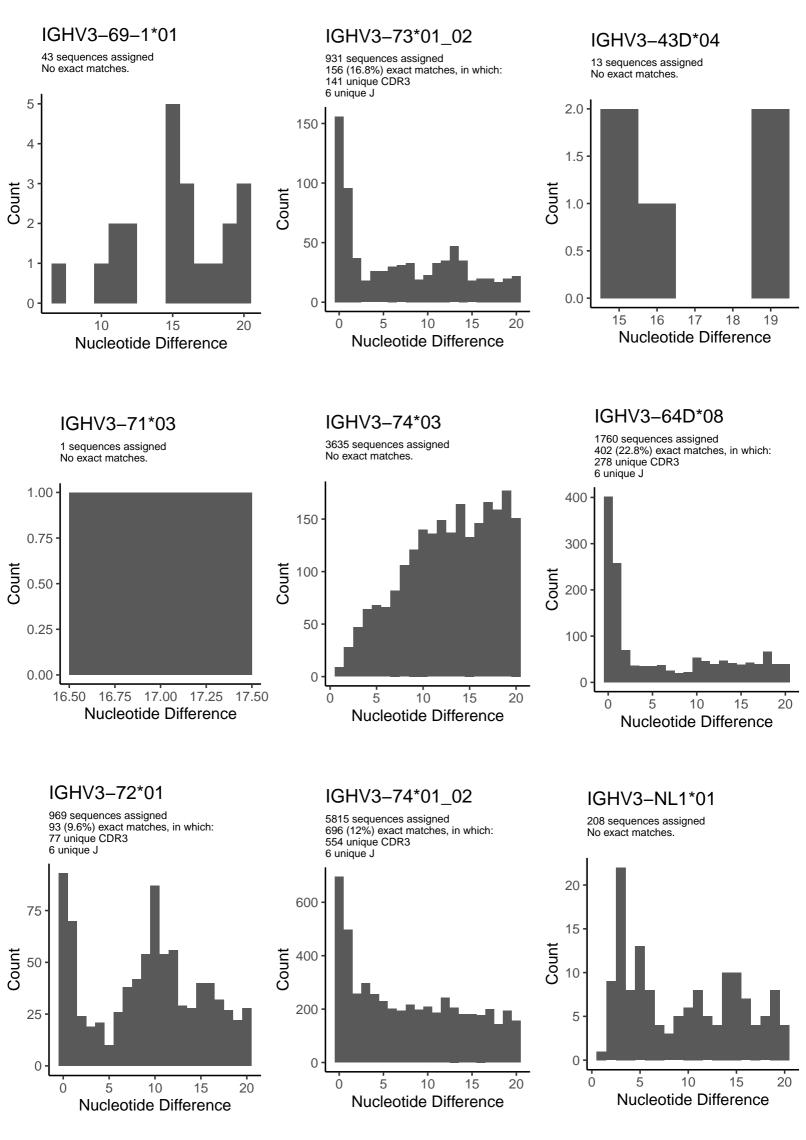


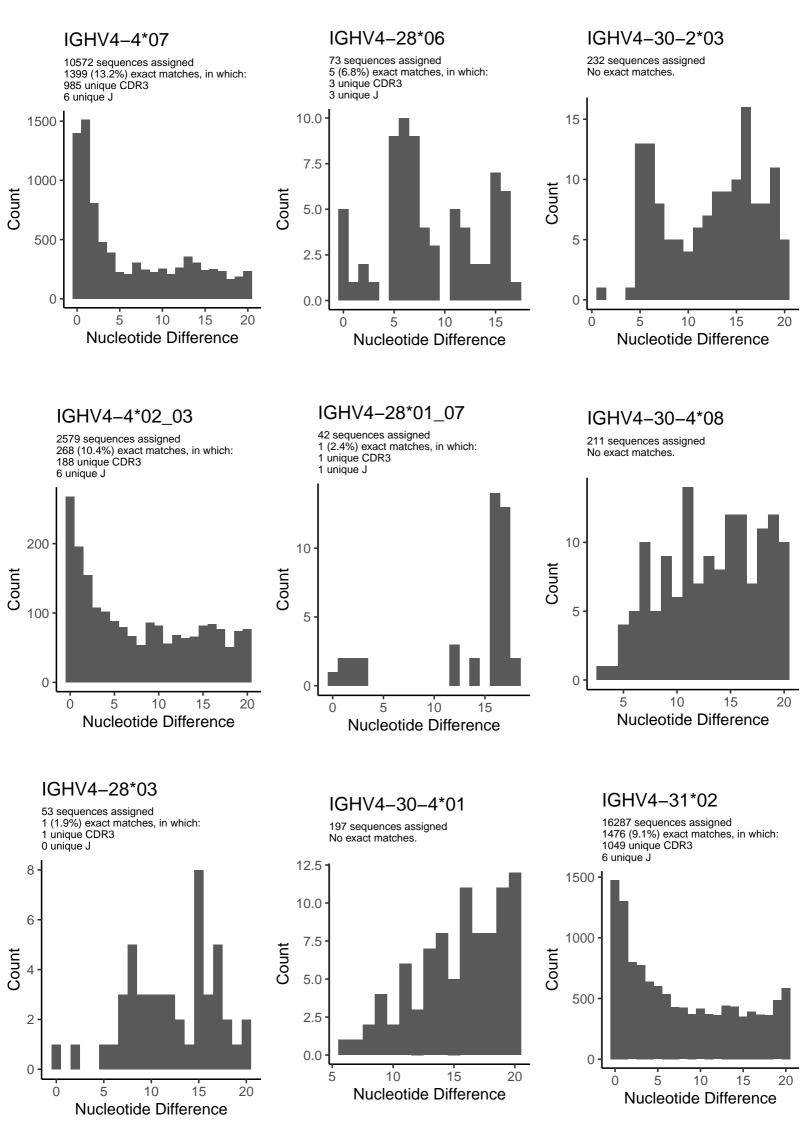


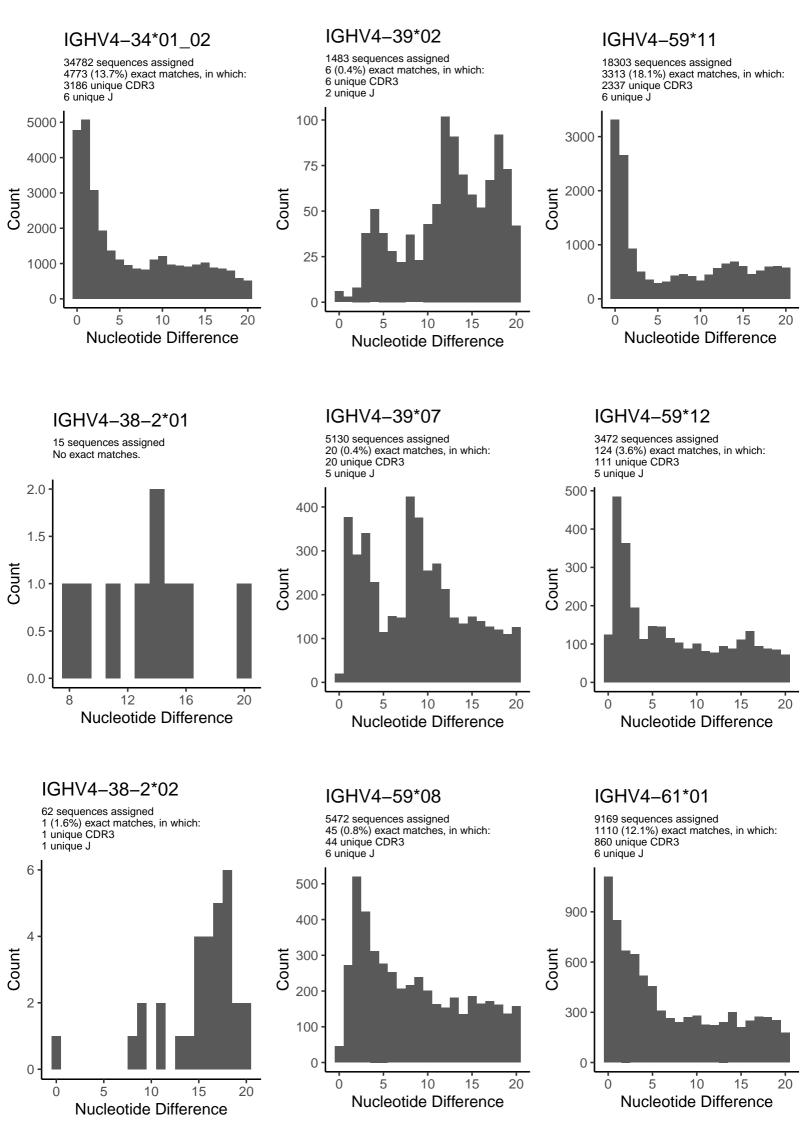


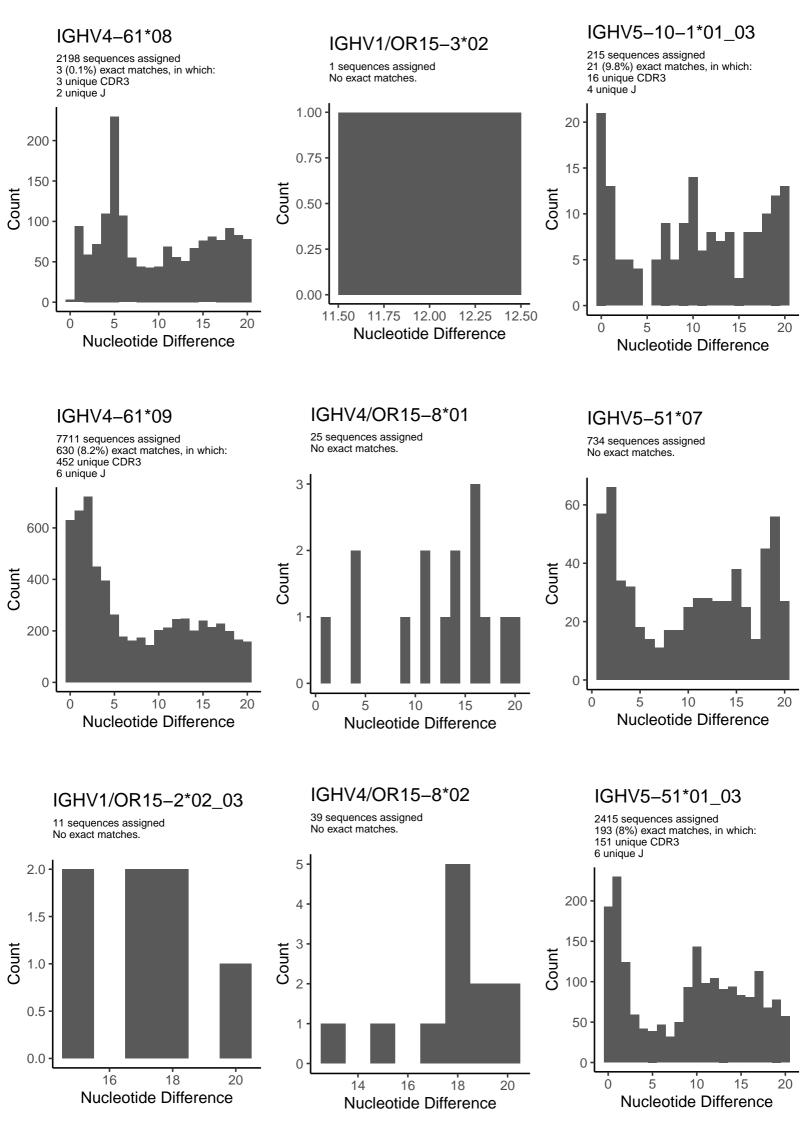






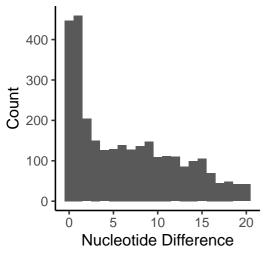






IGHV6-1*01_02

3168 sequences assigned 447 (14.1%) exact matches, in which: 332 unique CDR3 6 unique J



IGHV7-4-1*01

81 sequences assigned 1 (1.2%) exact matches, in which: 1 unique CDR3 1 unique J

