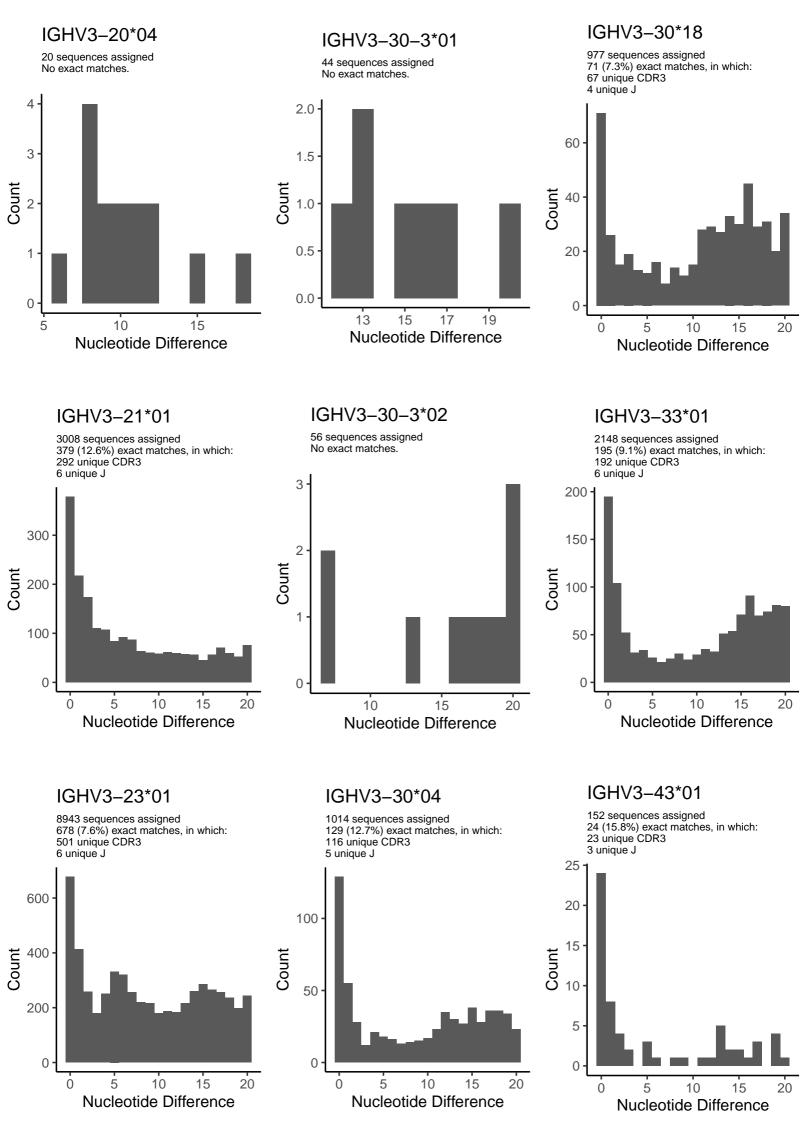
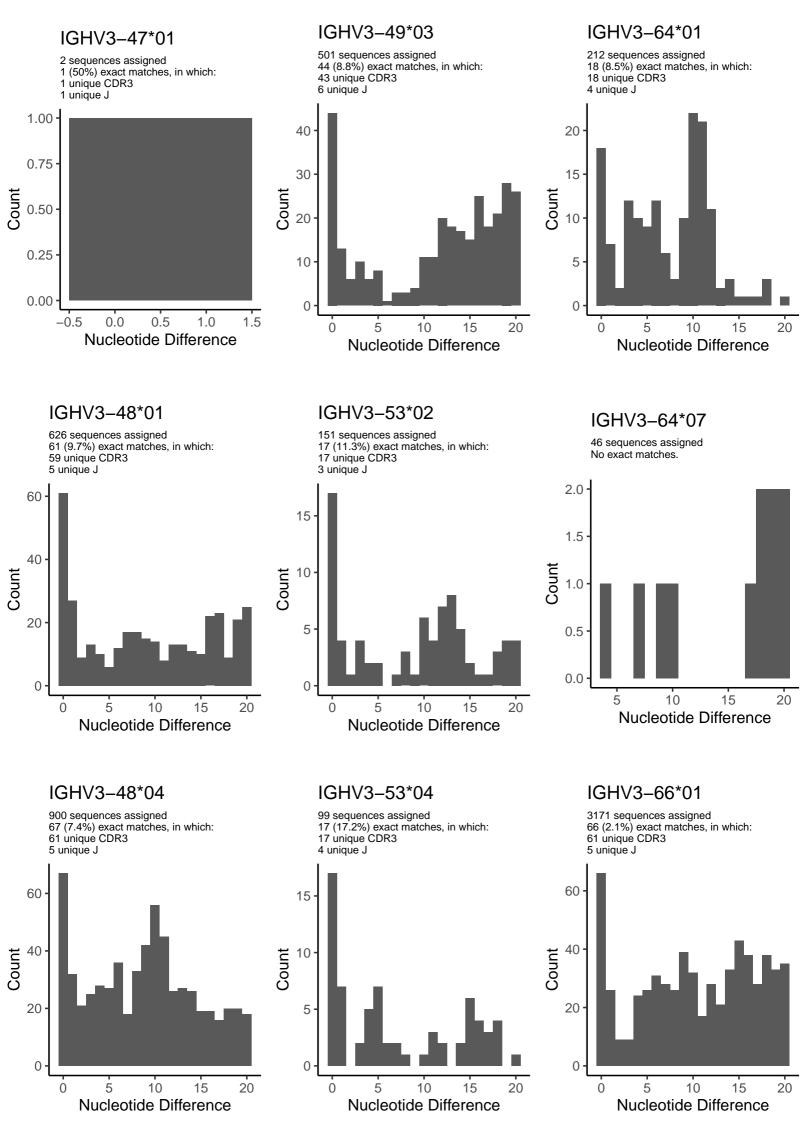
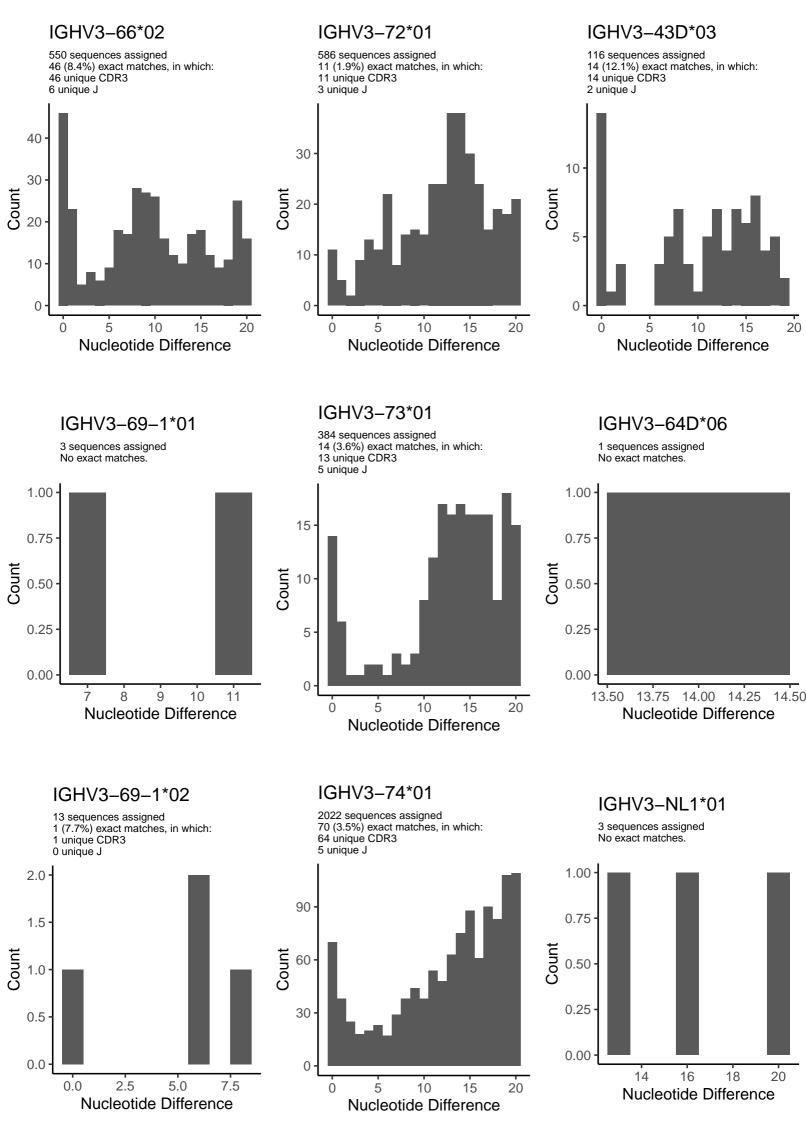
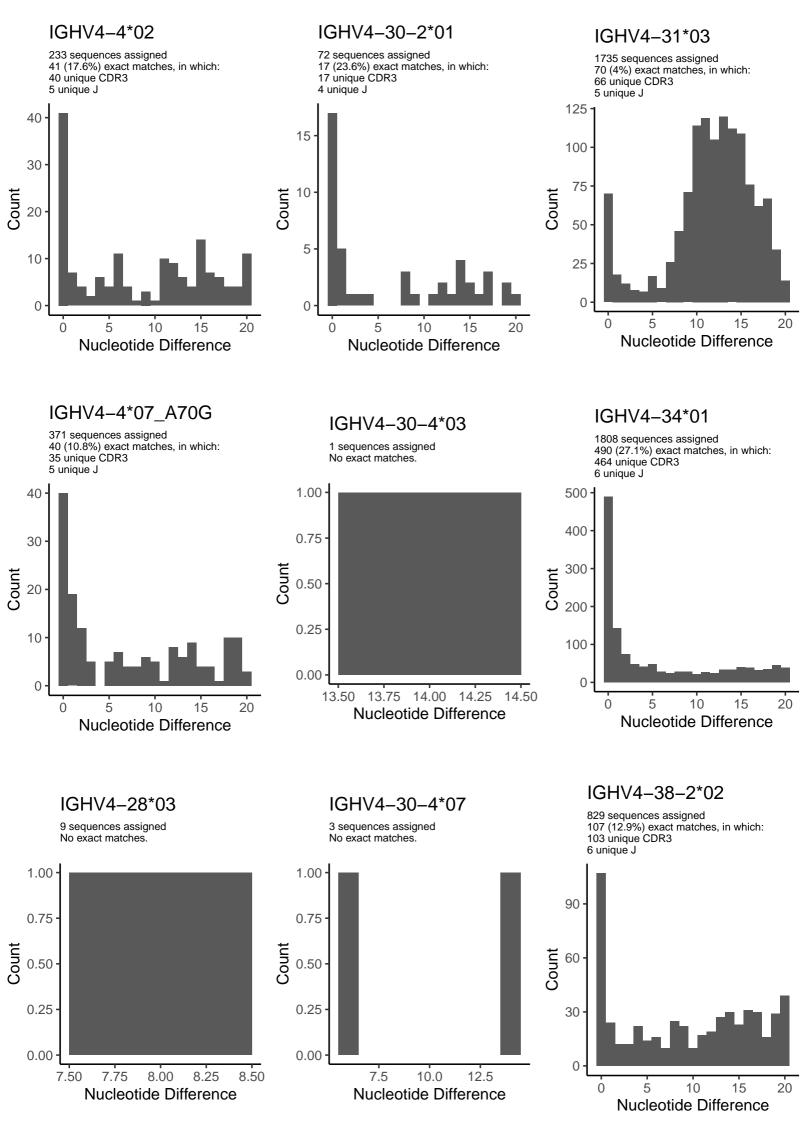


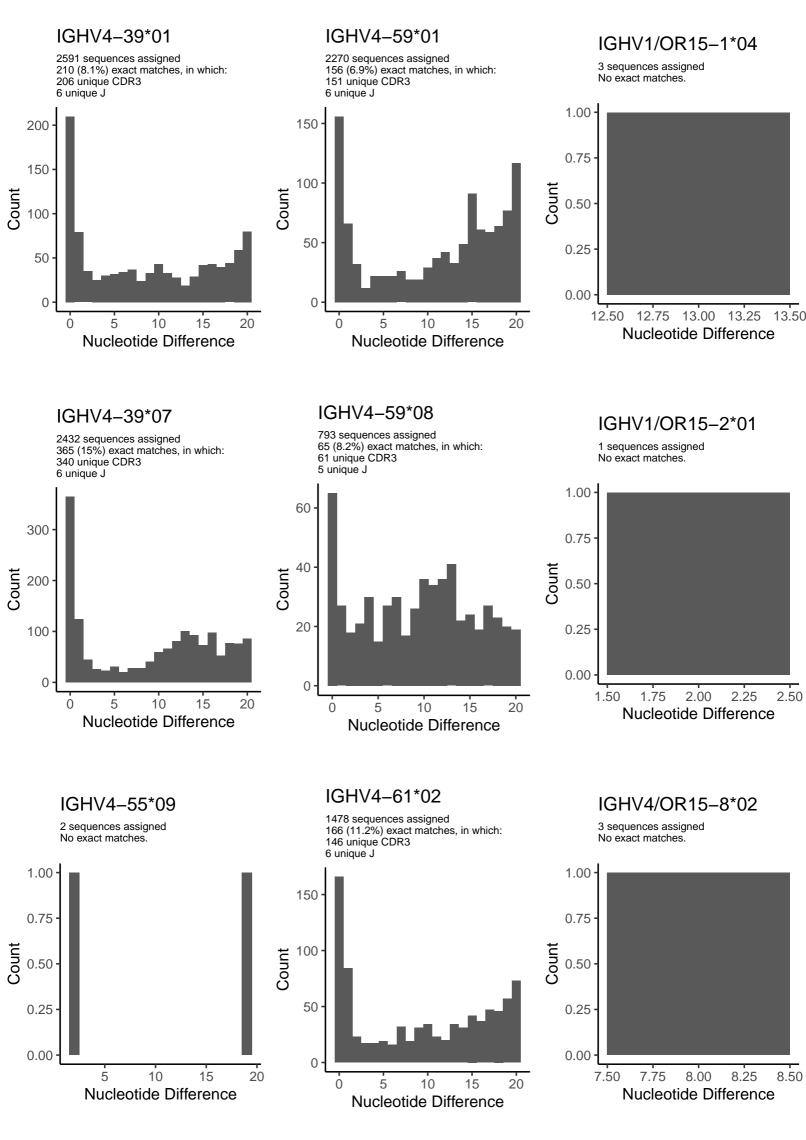
IGHV3-7*01 IGHV3-9*03 IGHV3-13*01 159 sequences assigned 30 (18.9%) exact matches, in which: 160 sequences assigned 9 (5.6%) exact matches, in which: 1259 sequences assigned 57 (4.5%) exact matches, in which: 9 unique CDR3 55 unique CDR3 26 unique CDR3 5 unique J 5 unique J 4 unique J 15 60 20 10 Count Count Count 10 5 20 0 0 0 0 10 15 20 0 10 15 20 0 15 5 5 5 10 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-7*03 IGHV3-11*01 IGHV3-15*01 1152 sequences assigned 52 (4.5%) exact matches, in which: 52 unique CDR3 759 sequences assigned 45 (5.9%) exact matches, in which: 3336 sequences assigned 144 (4.3%) exact matches, in which: 42 unique CDR3 138 unique CDR3 5 unique J 5 unique J 4 unique J 60 40 150 30 Count Count 100 20 20 50 10 0 0 0 10 15 20 0 5 0 10 15 20 10 15 20 5 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-20*01 IGHV3-11*04 IGHV3-9*01 36 sequences assigned 620 sequences assigned 2750 sequences assigned 2 (5.6%) exact matches, in which: 2 unique CDR3 30 (4.8%) exact matches, in which: 145 (5.3%) exact matches, in which: 30 unique CDR3 136 unique CDR3 2 unique J 5 unique J 6 unique J 150 30 100 20 Count Count Count 50 2 10 0 0 0 5 10 15 20 0 5 10 15 20 12 0 8 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference



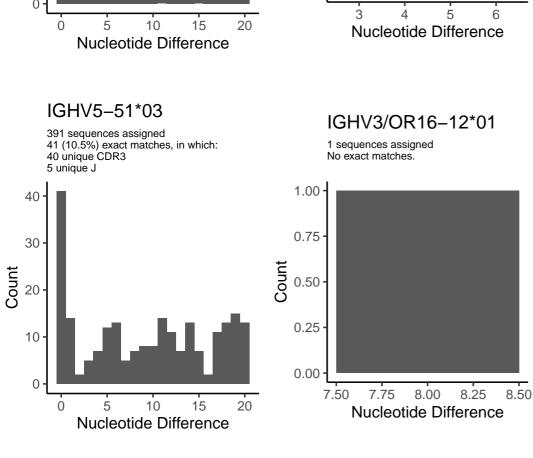








IGHV6-1*01 IGHV1/OR15-9*01 653 sequences assigned 40 (6.1%) exact matches, in which: 1 sequences assigned 39 unique CDR3 No exact matches. 5 unique J 1.00 -40 0.75 30 Count 0.50 Count 20 0.25 10 0.00 0 18.50 18.75 19.00 19.25 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV5-51*01 IGHV3/OR16-9*01 830 sequences assigned 67 (8.1%) exact matches, in which: 67 unique CDR3 4 sequences assigned No exact matches. 5 unique J 1.00 -60 0.75 Count Count Count 20 0.25 0.00 0 5 3 0 5 10 15 20 **Nucleotide Difference**



IGHV4-4*07_A70G

