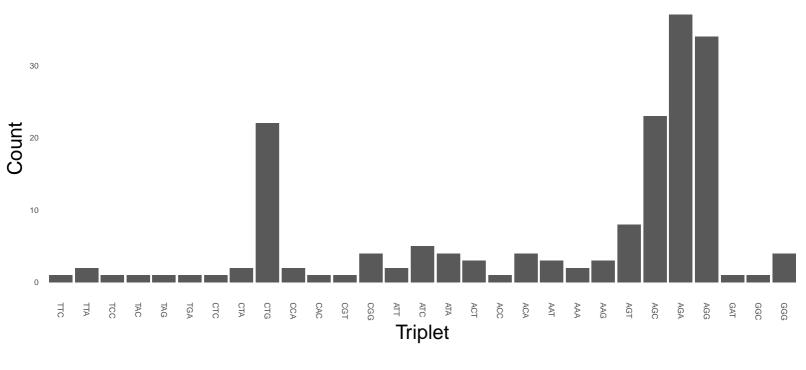
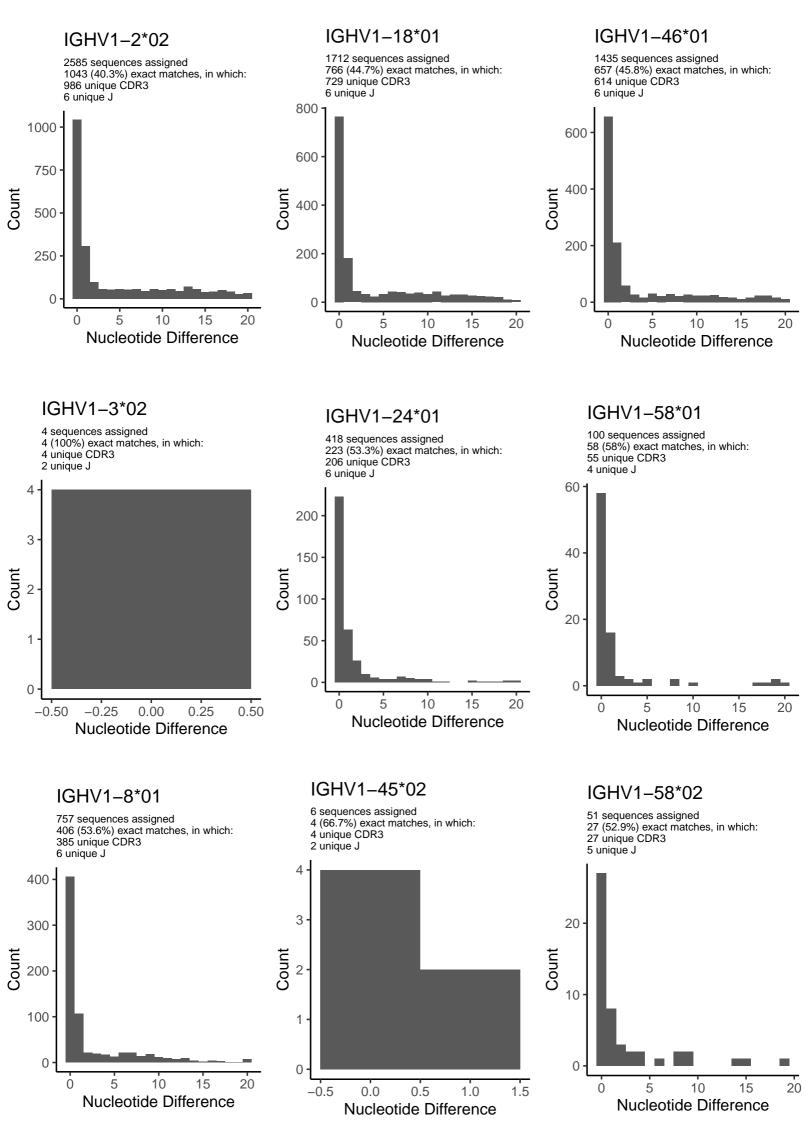
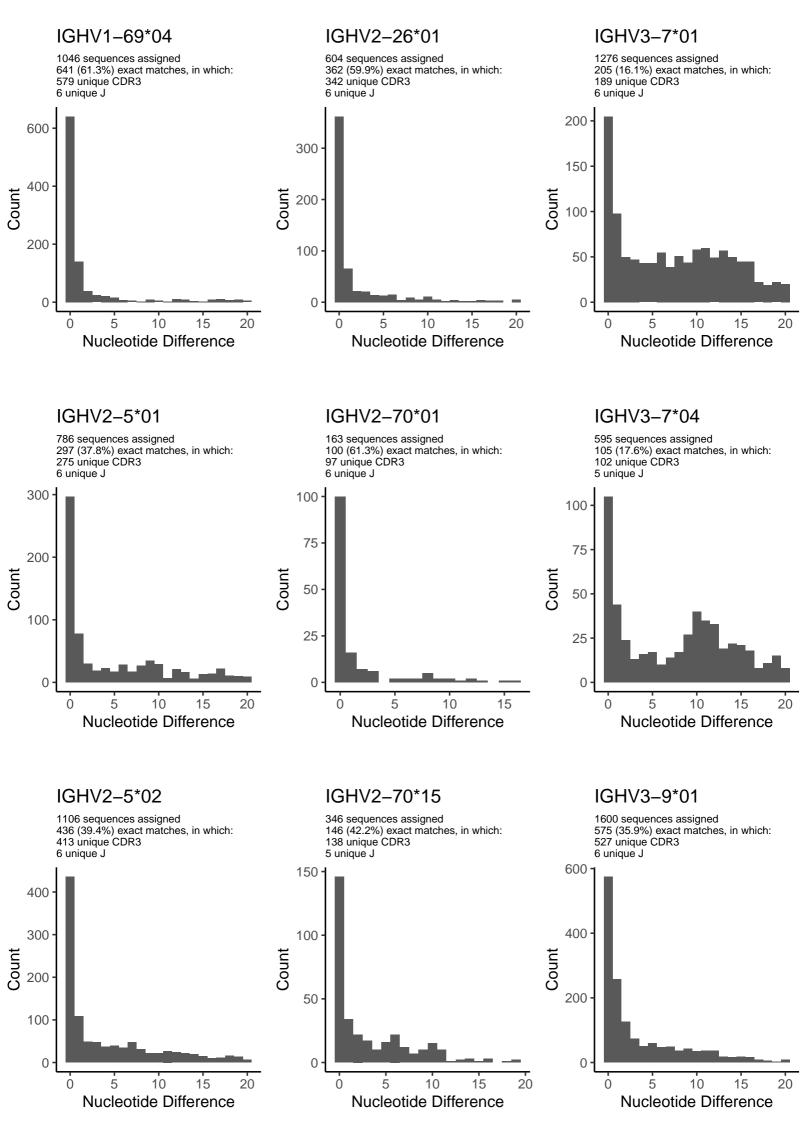
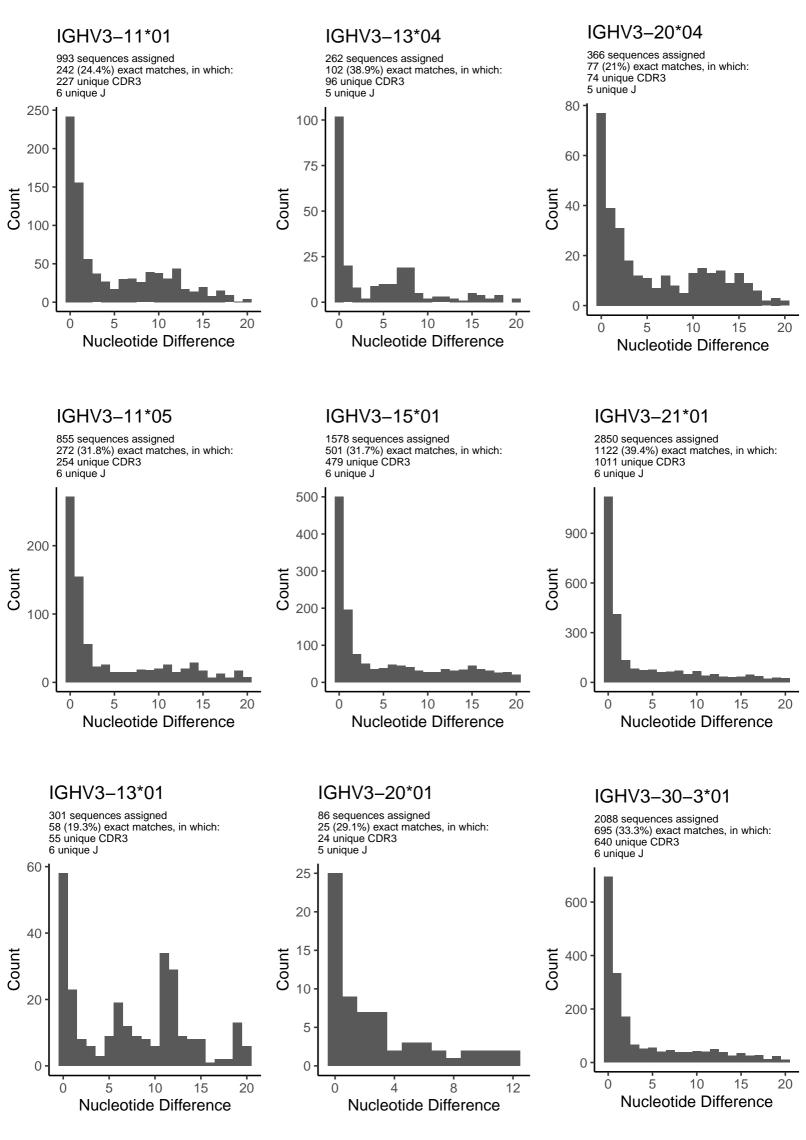


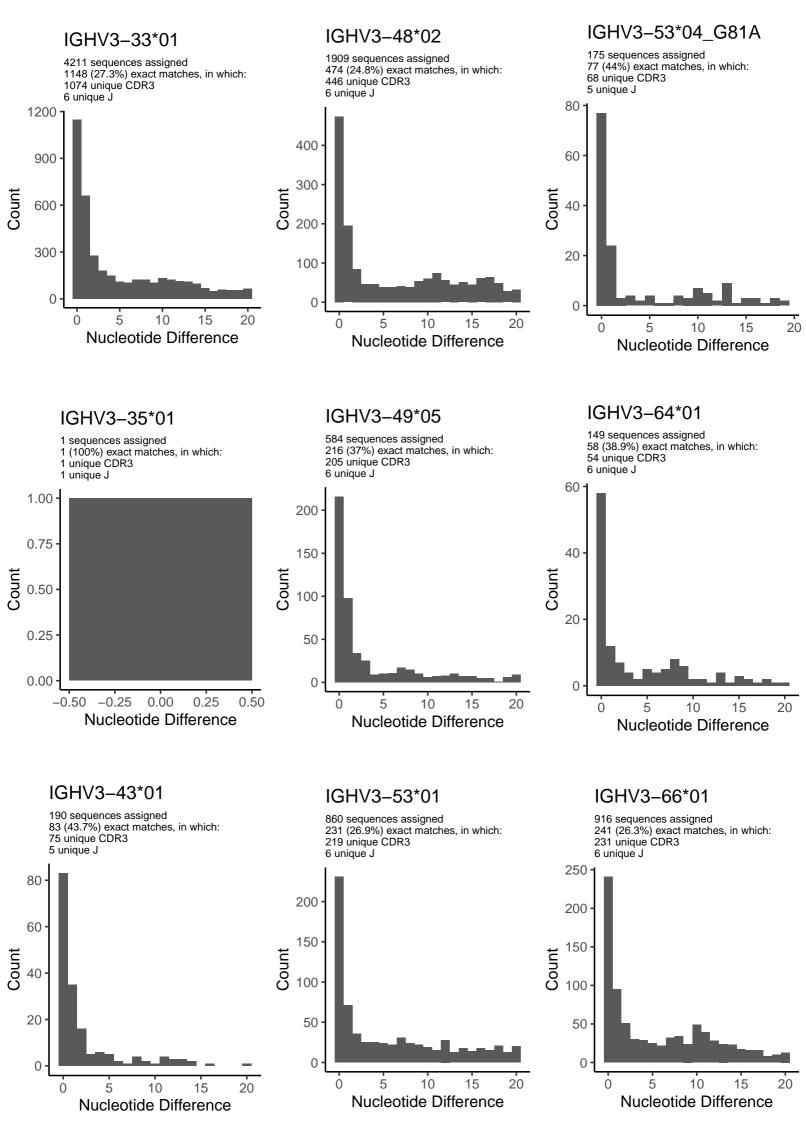
IGHV3-53*04_G81A- Final 3 nucleotides as a triplet

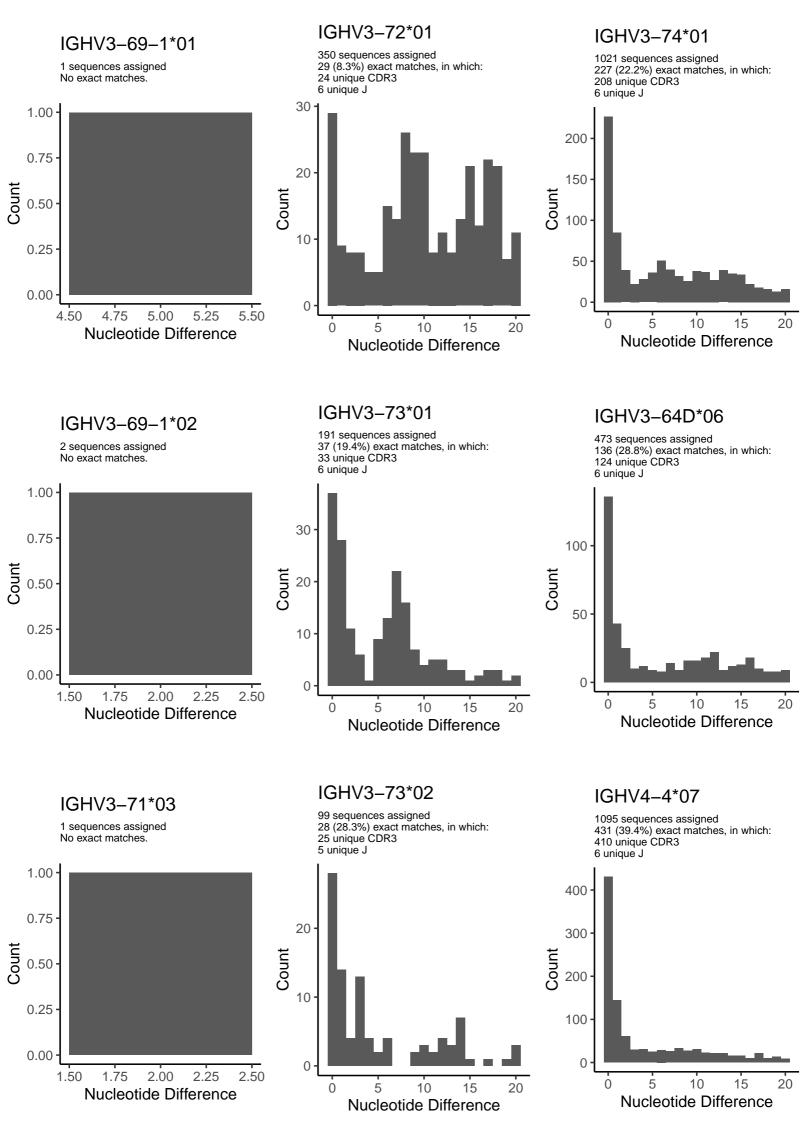


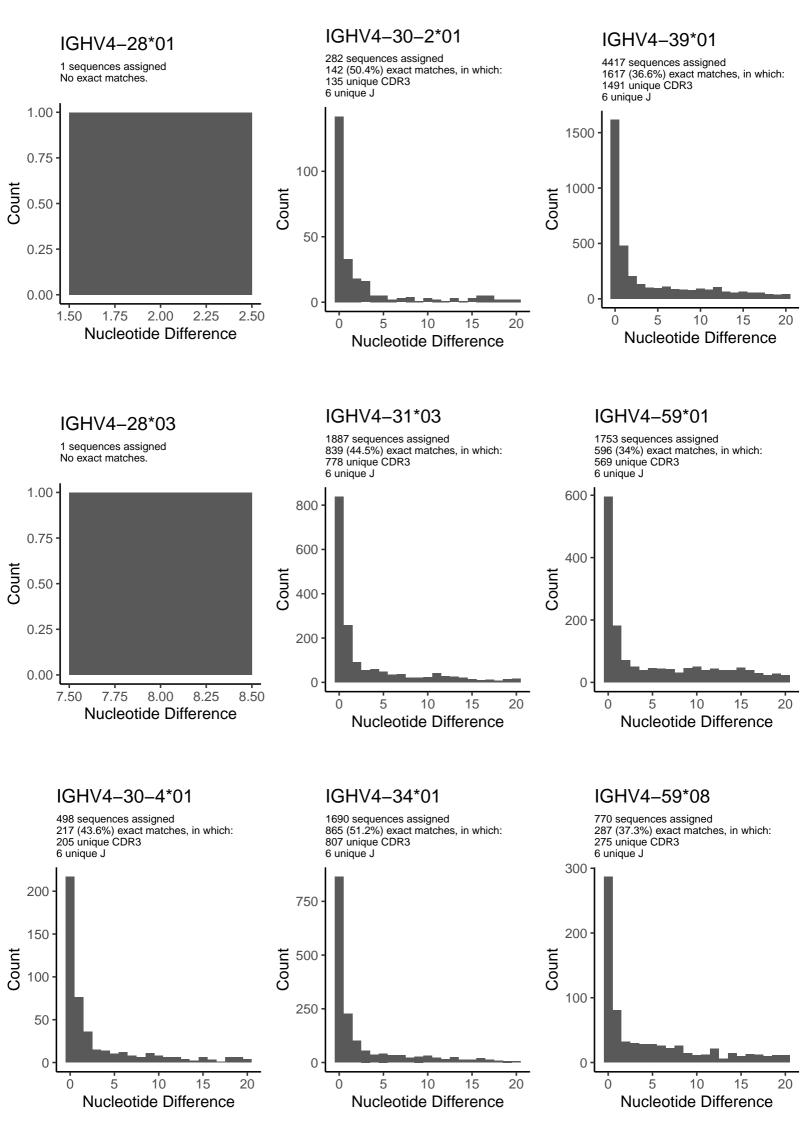






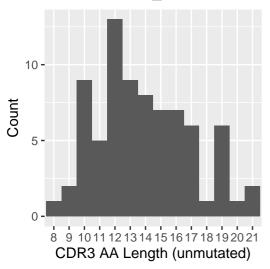






IGHV4-61*01 IGHV5-51*01 234 sequences assigned 61 (26.1%) exact matches, in which: 1796 sequences assigned 668 (37.2%) exact matches, in which: 624 unique CDR3 60 unique CDR3 5 unique J 6 unique J 60 600 40 400 Count Count 20 200 0 0 0 5 10 15 20 0 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV6-1*01 IGHV4/OR15-8*02 610 sequences assigned 209 (34.3%) exact matches, in which: 1 sequences assigned No exact matches. 193 unique CDR3 5 unique J 1.00 -200 0.75 150 Count Count 100 0.25 50 0.00 0 10.75 11.00 11.25 11.50 10.50 5 10 15 20 0 Nucleotide Difference Nucleotide Difference IGHV5-10-1*01 IGHV3/OR16-9*01 524 sequences assigned 255 (48.7%) exact matches, in which: 1 sequences assigned No exact matches. 233 unique CDR3 6 unique J 1.00 200 0.75 Count 100 Count 0.50 0.25 0.00 6.50 6.75 7.00 7.25 7.50 10 15 20 **Nucleotide Difference Nucleotide Difference**

IGHV3-53*04_G81A





Warning - no inferred sequences found. Warning - no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Warning – no inferred sequences found. Warning – no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Warning – no inferred sequences found. Warning - no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Warning – no inferred sequences found. Warning – no inferred sequences found. Warning - no inferred sequences found. Warning - no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found. Warning - no inferred sequences found. Warning – no inferred sequences found.