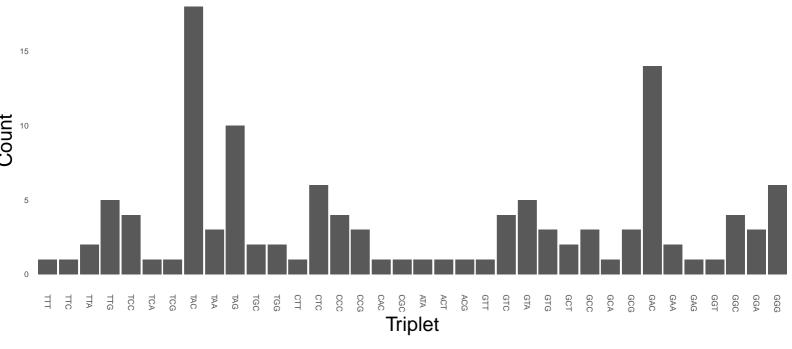
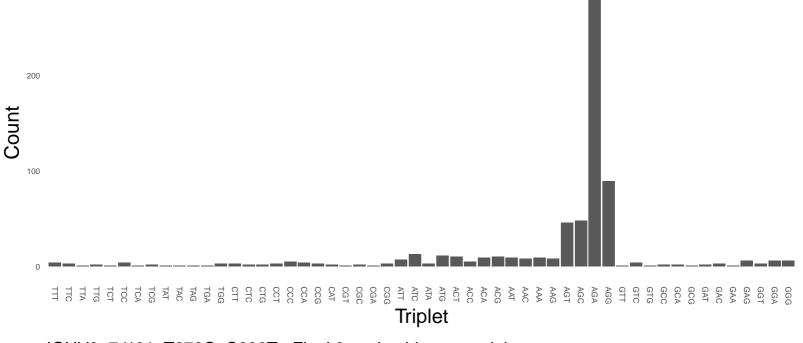


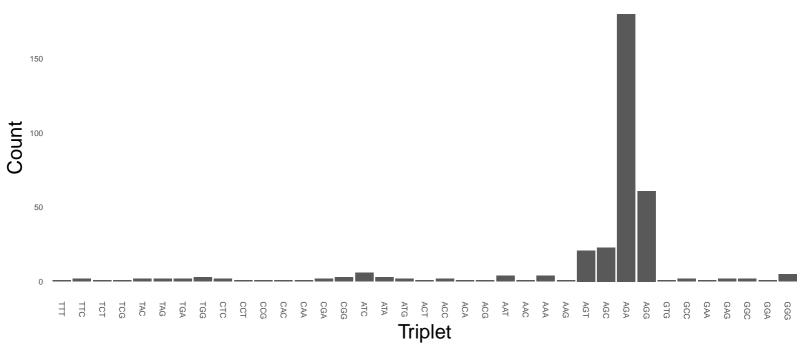
IGHV2-70*15_G303A- Final 3 nucleotides as a triplet



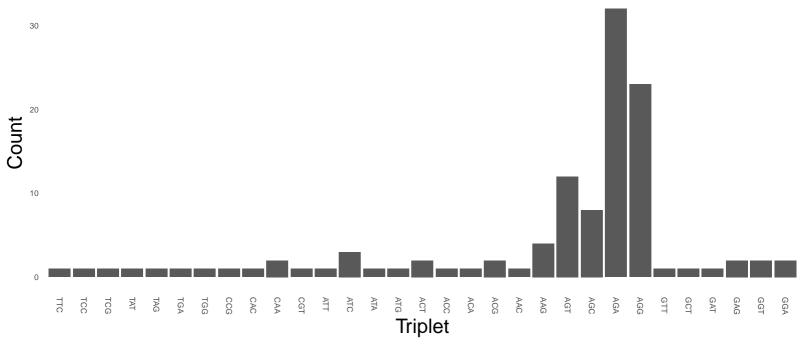
IGHV3-74*01_T279C- Final 3 nucleotides as a triplet



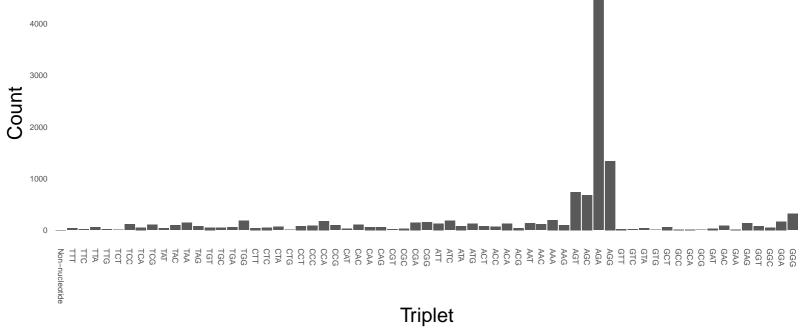
IGHV3-74*01_T279C_C288T- Final 3 nucleotides as a triplet



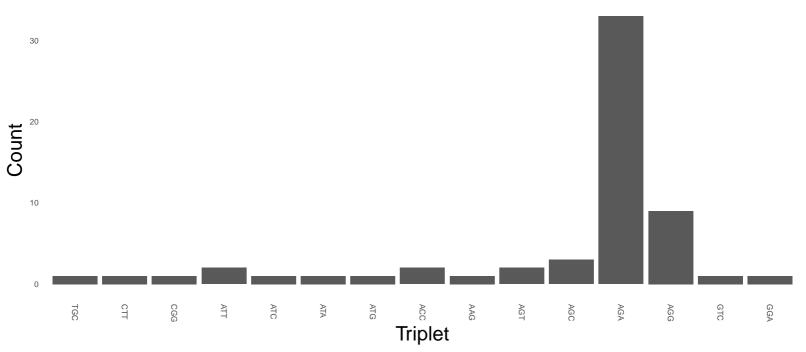
IGHV1-3*02_T296C_T300C- Final 3 nucleotides as a triplet

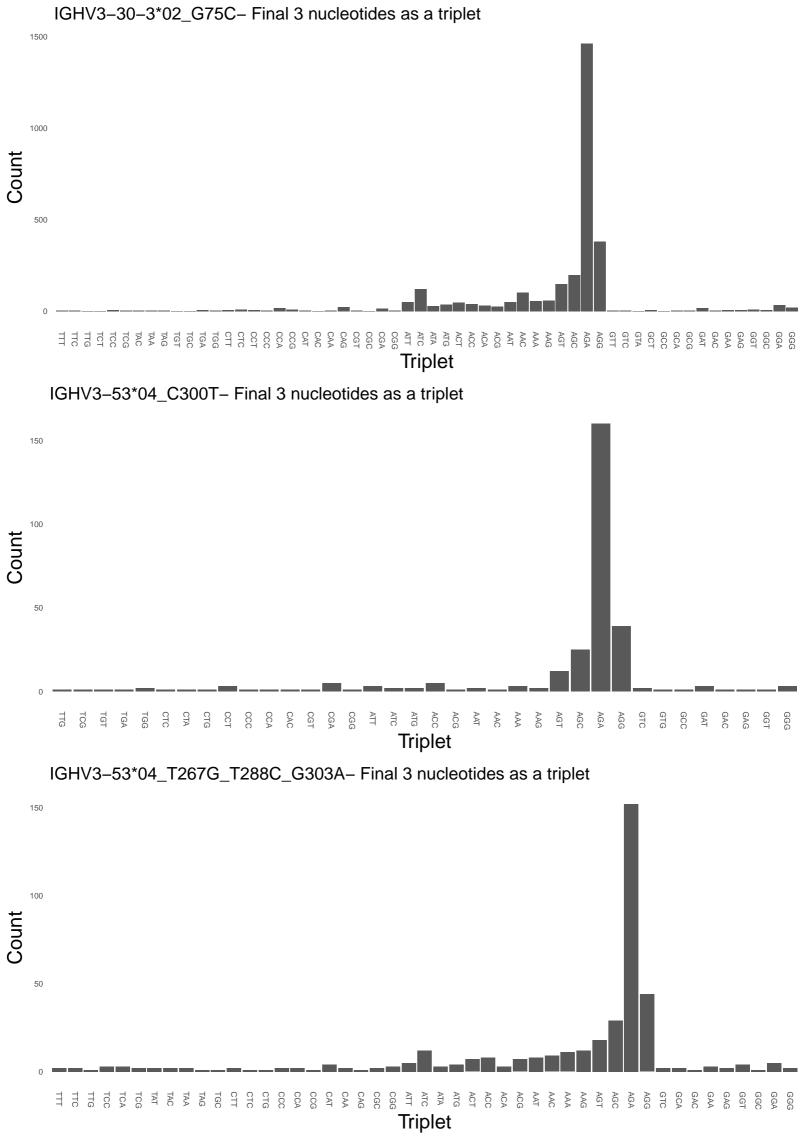


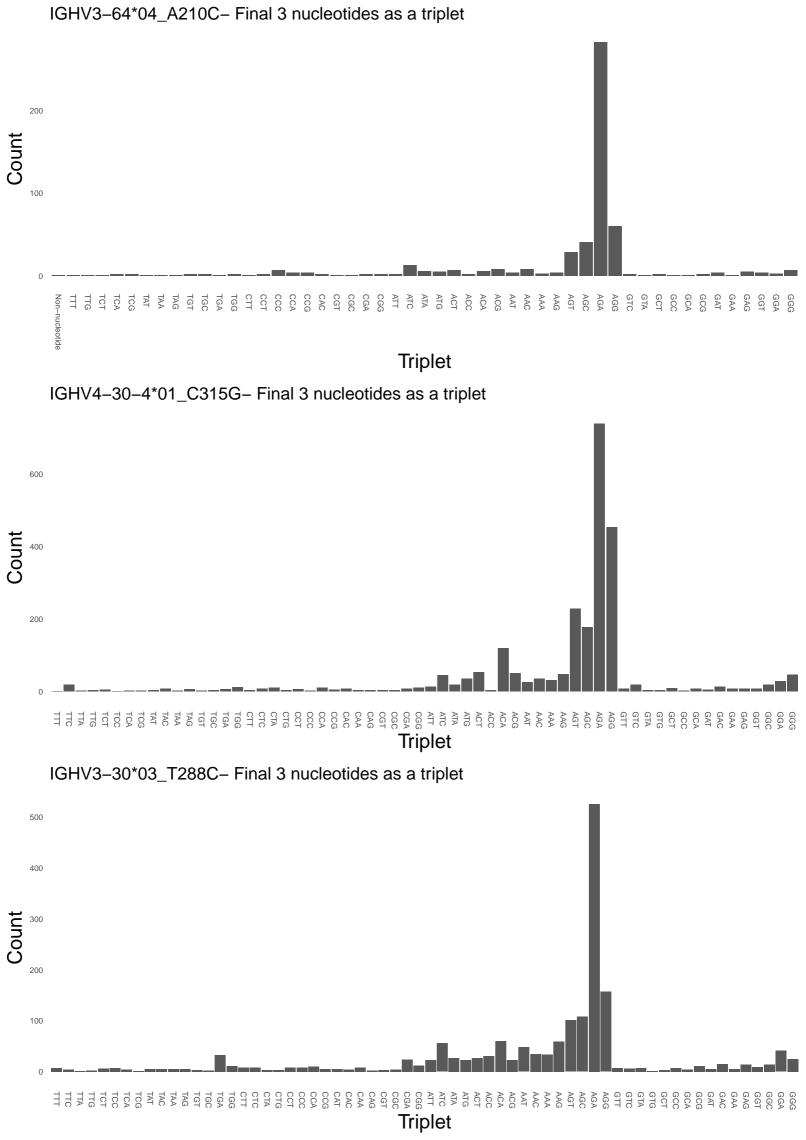
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



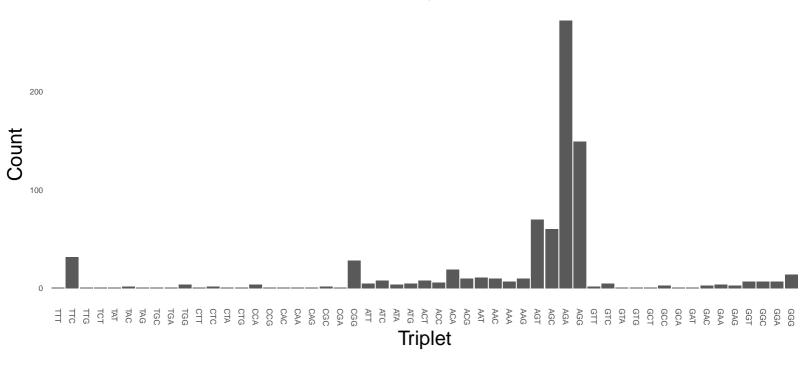
IGHV3-20*04_T279C_C288T_C300T_T301G- Final 3 nucleotides as a triplet

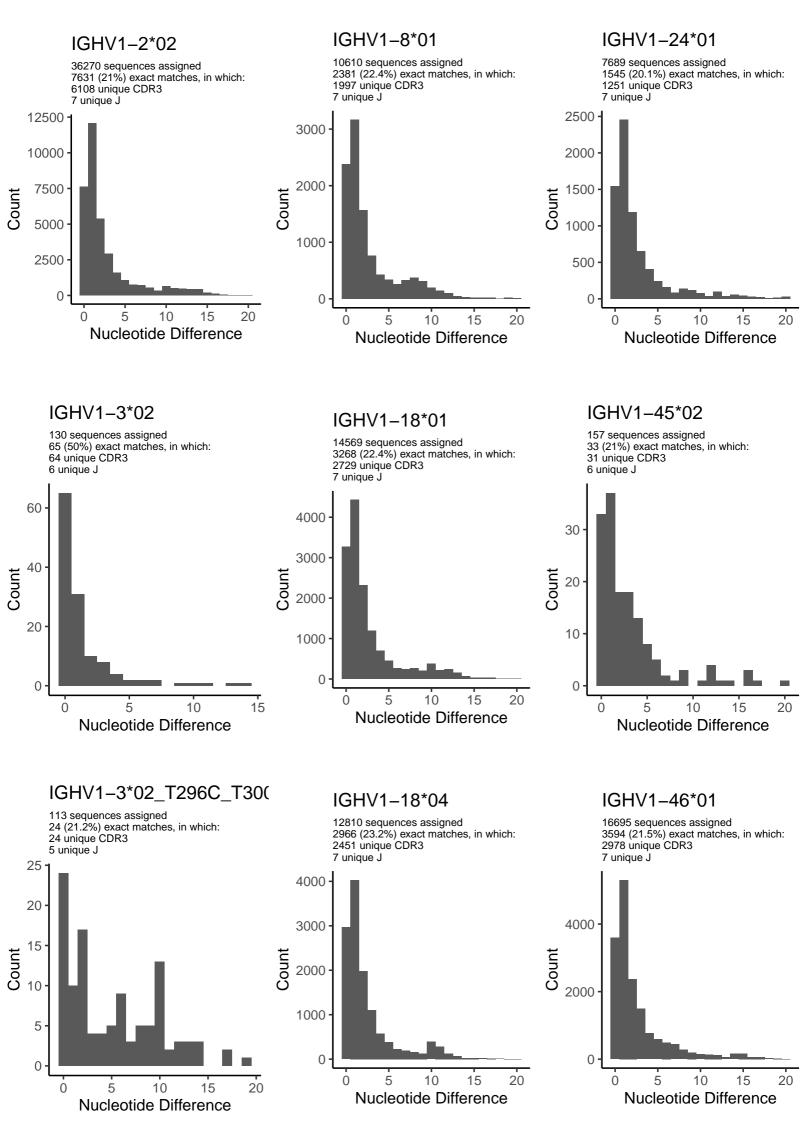


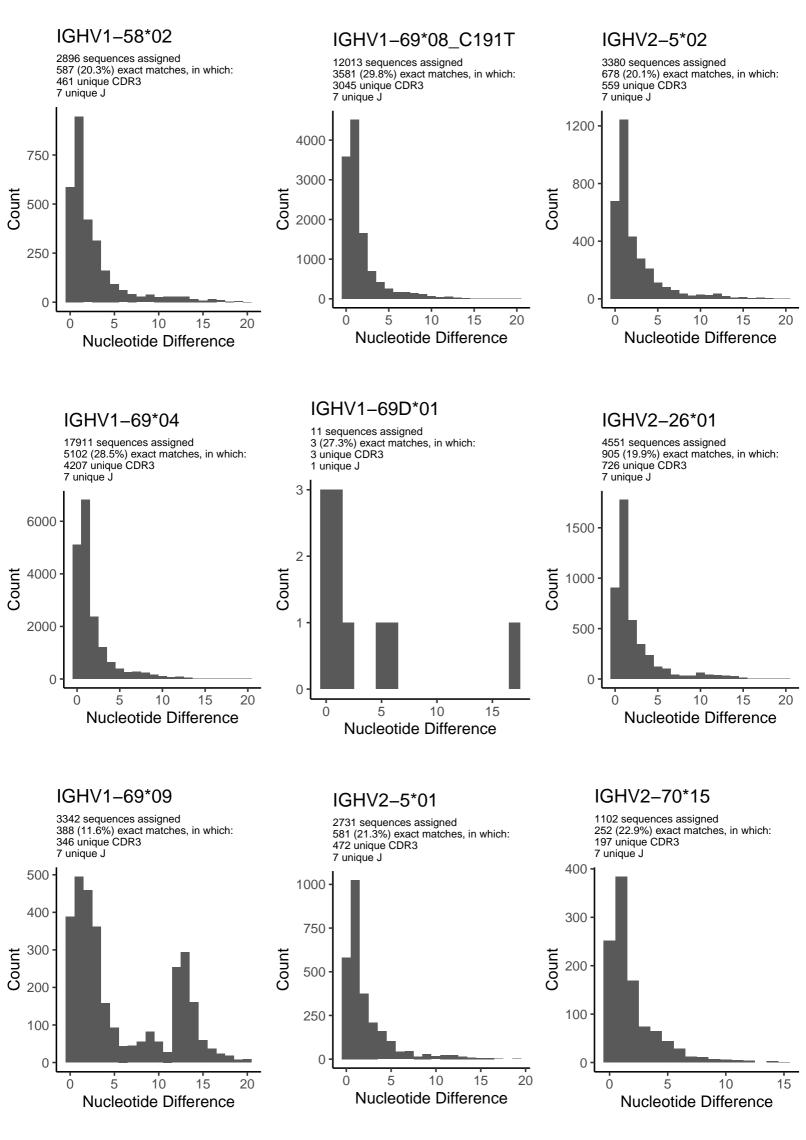


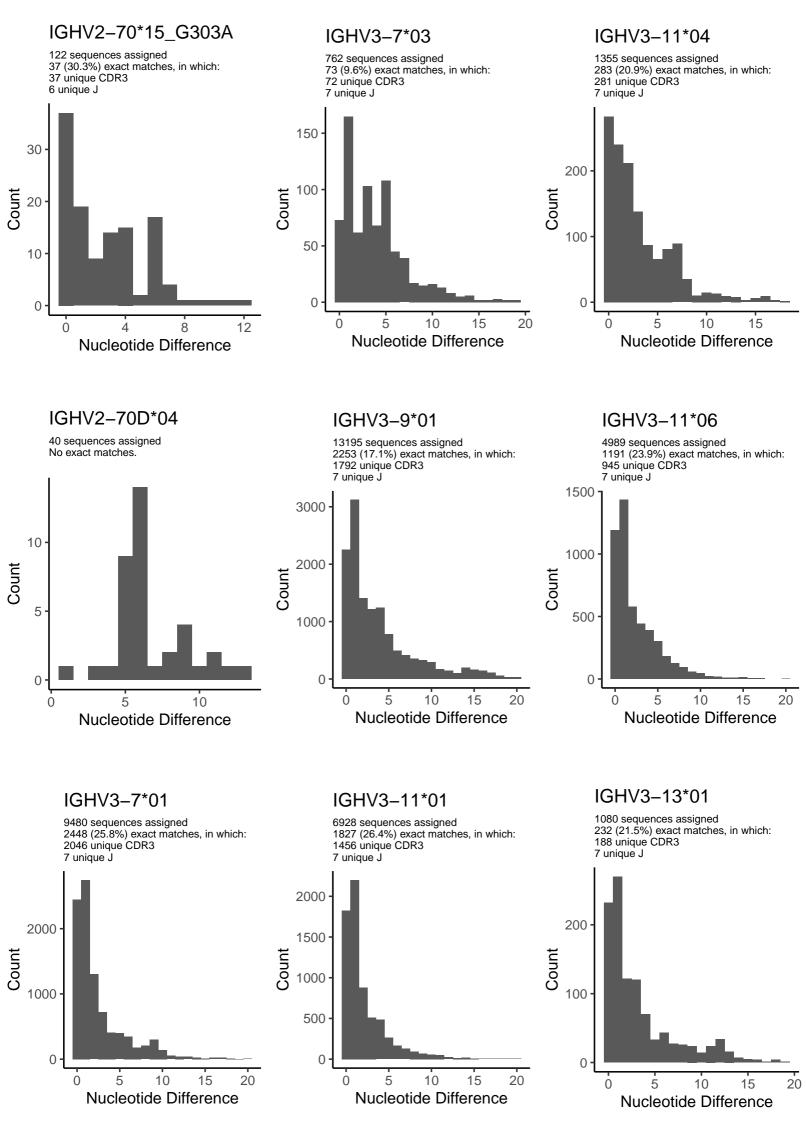


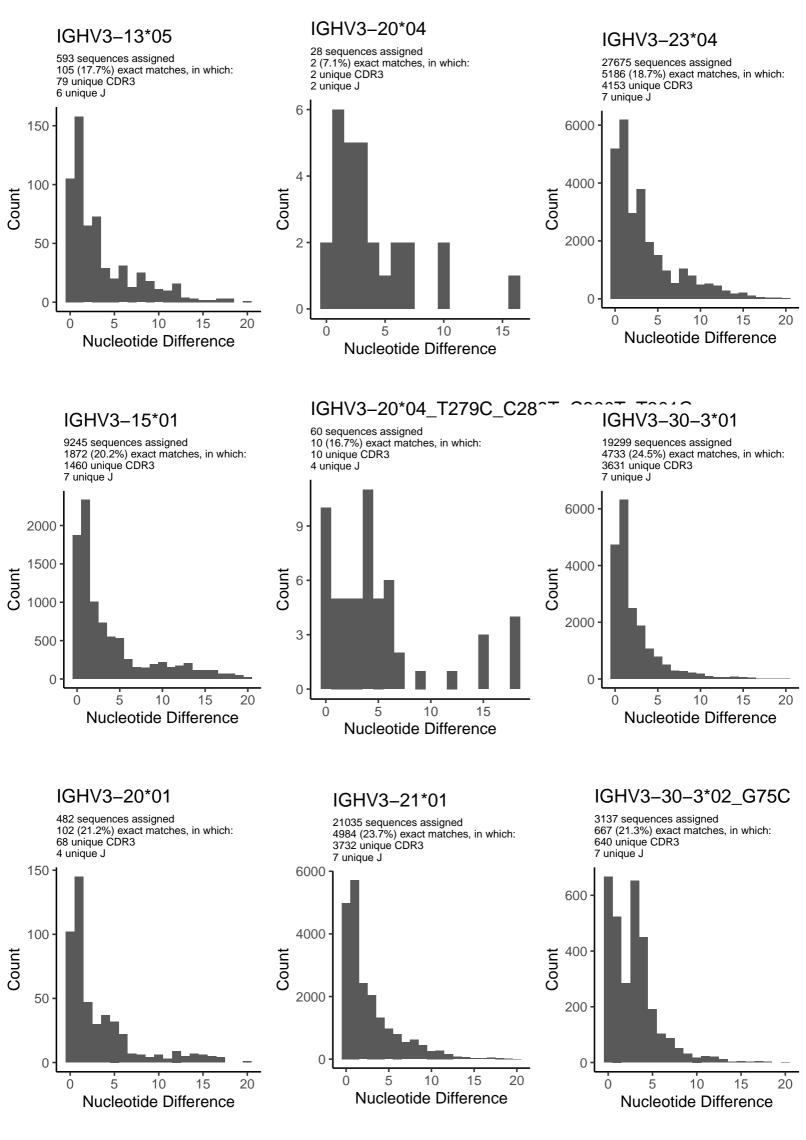
IGHV6-1*01_A315G- Final 3 nucleotides as a triplet

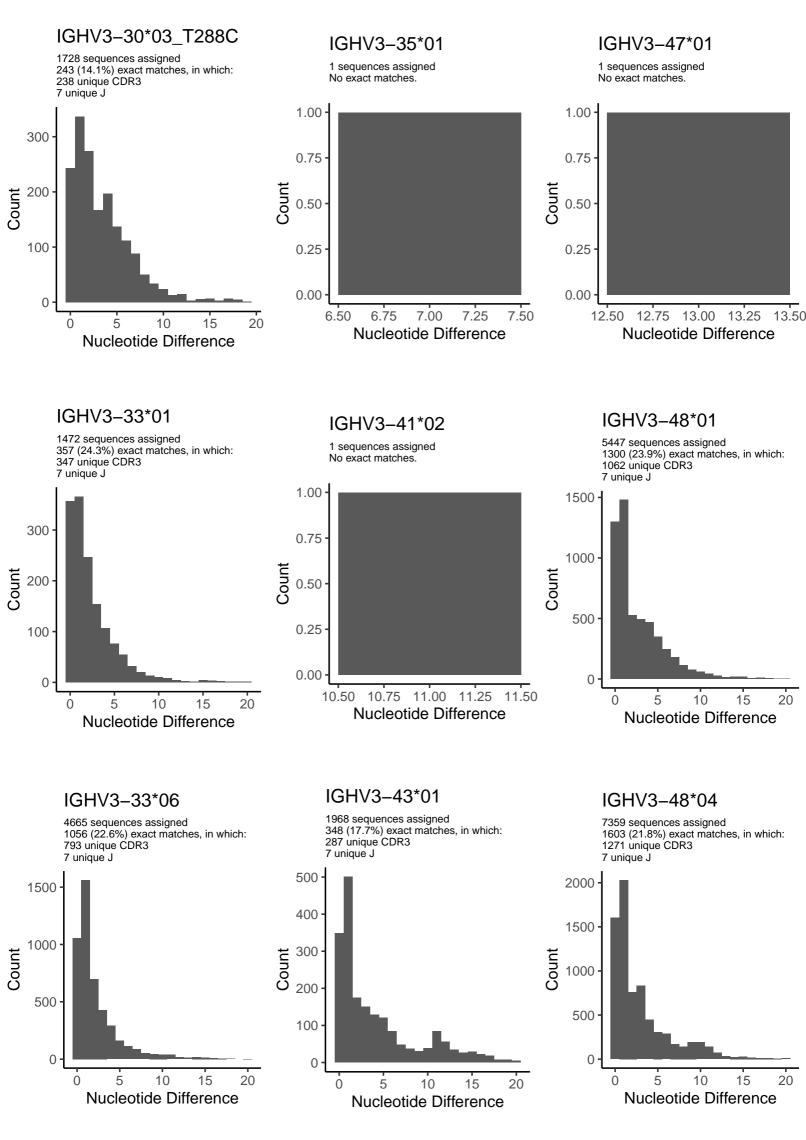


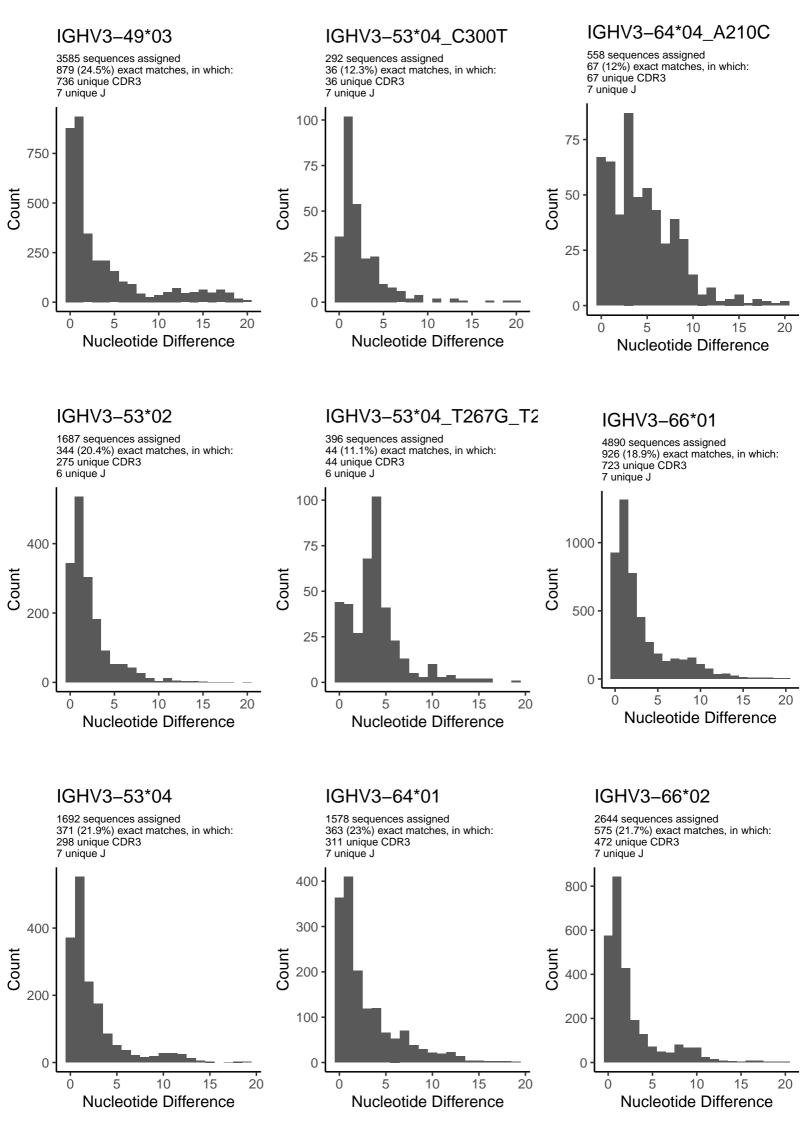


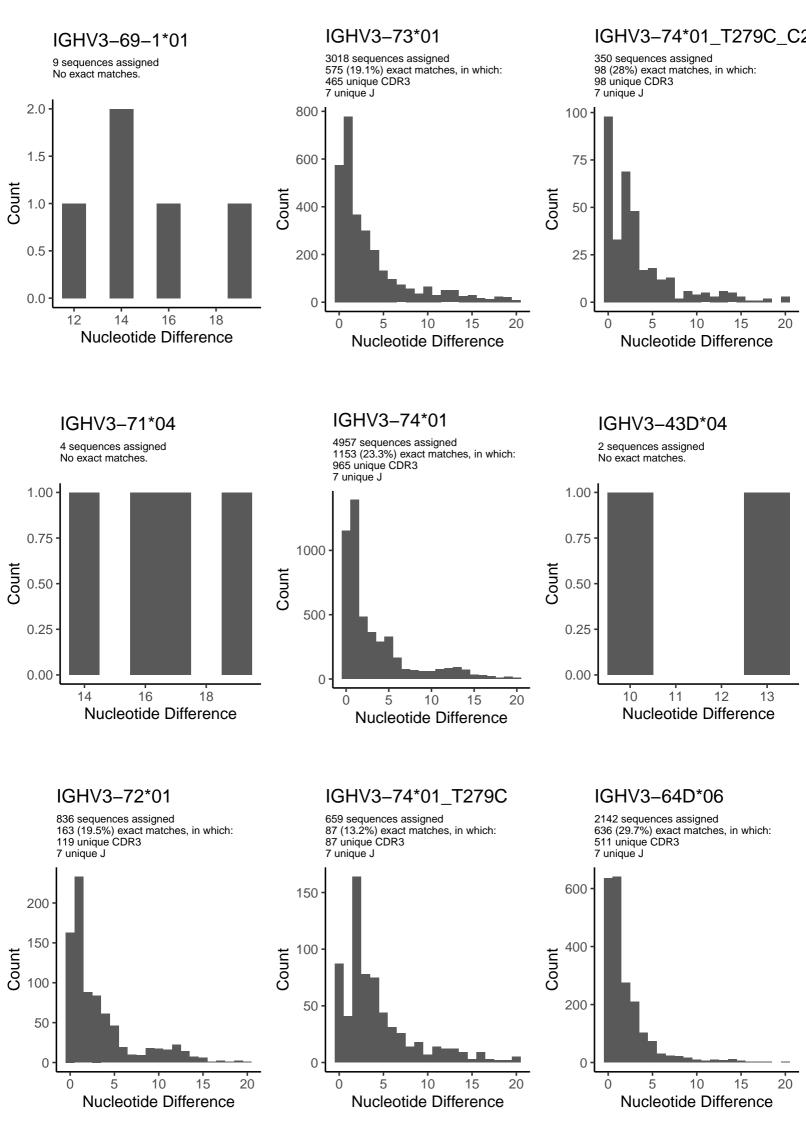


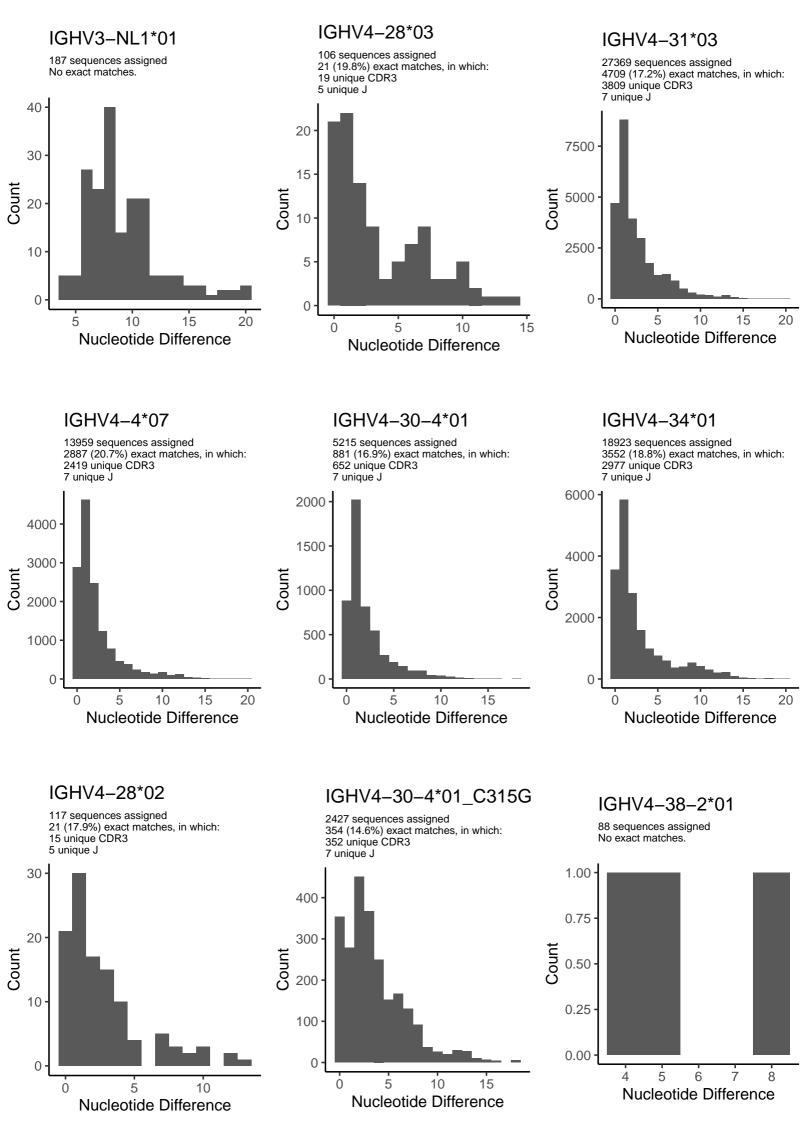


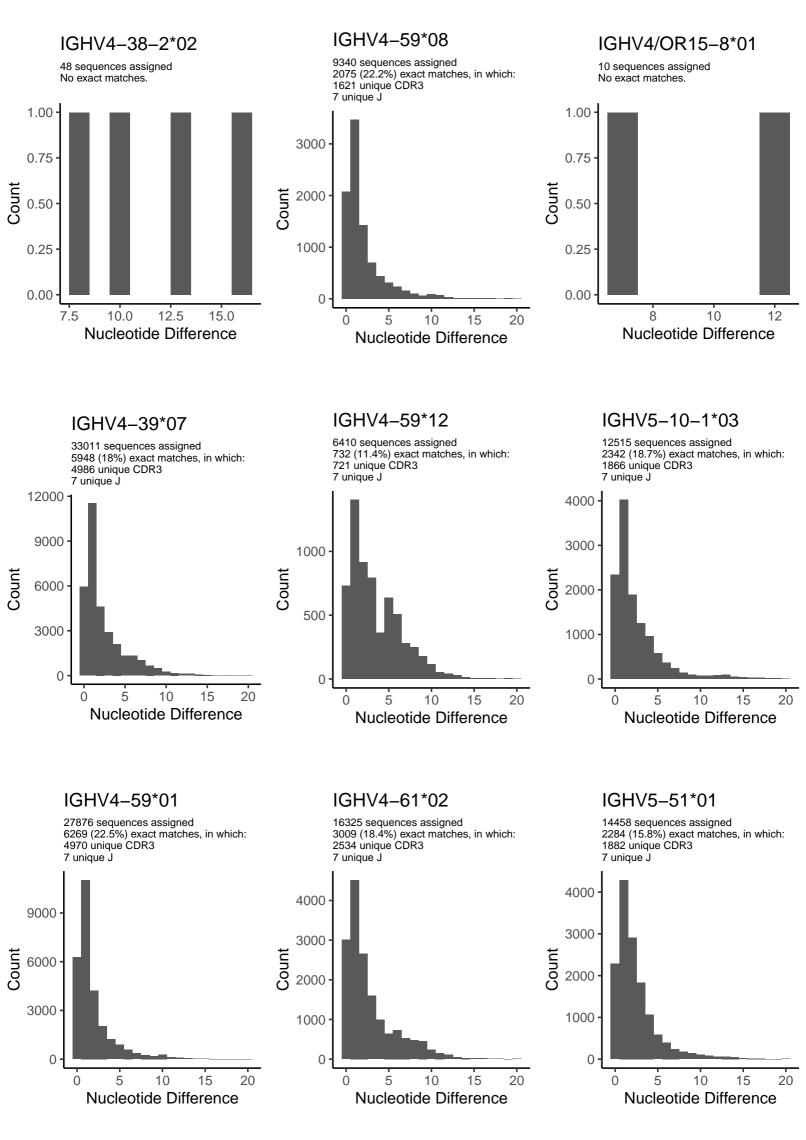








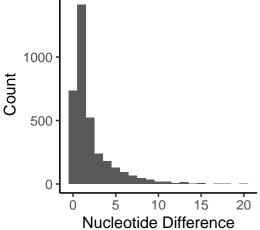




IGHV7-81*01 IGHV5-51*03 7112 sequences assigned 1670 (23.5%) exact matches, in which: 1368 unique CDR3 7 unique J 4 sequences assigned 1 (25%) exact matches, in which: 1 unique CDR3 1 unique J 1.00 0.75 2000 Count 1000 Count Count 0.25 0 0.00 0 10 15 20 4 0 **Nucleotide Difference Nucleotide Difference**

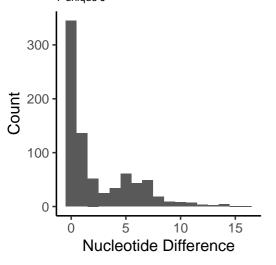
IGHV6-1*01

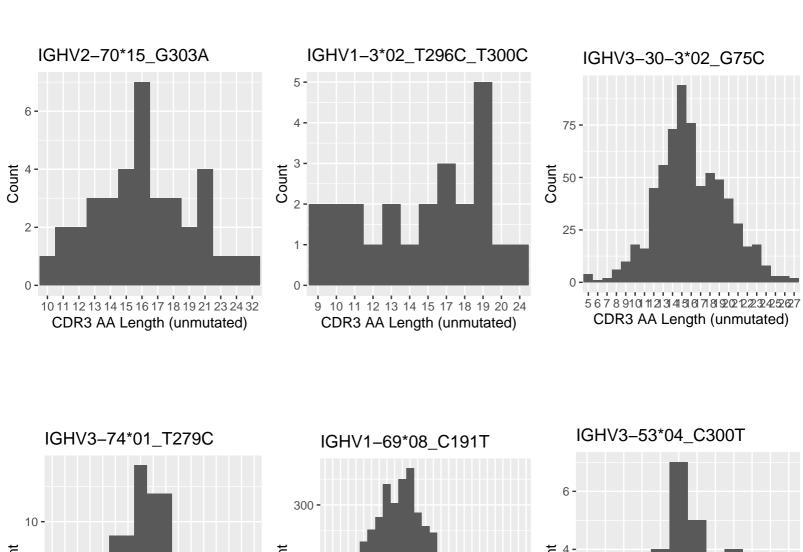
3529 sequences assigned 736 (20.9%) exact matches, in which: 538 unique CDR3 7 unique J

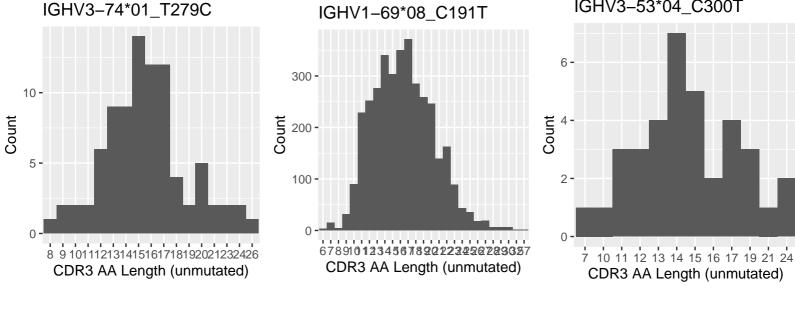


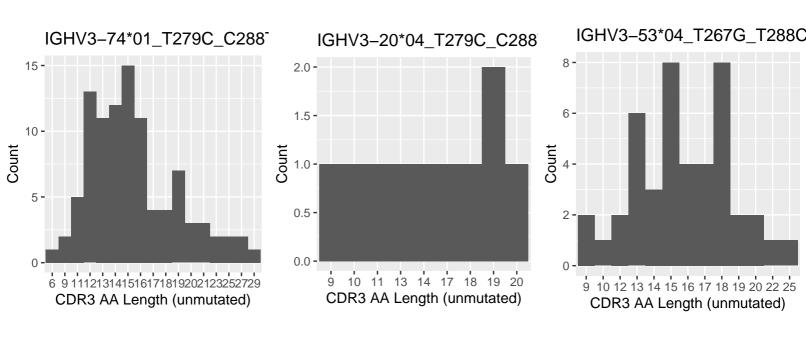
IGHV6-1*01_A315G

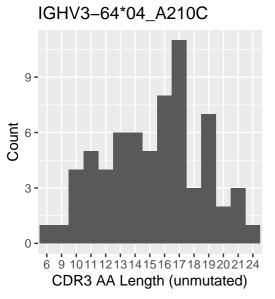
803 sequences assigned 345 (43%) exact matches, in which: 340 unique CDR3 7 unique J

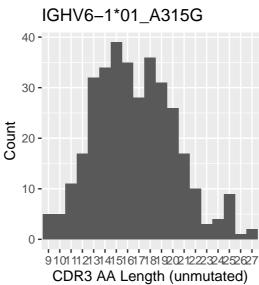


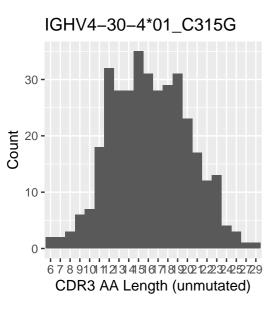


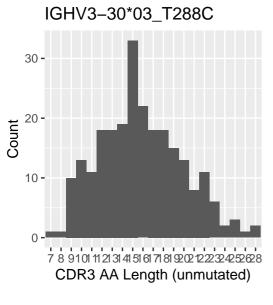






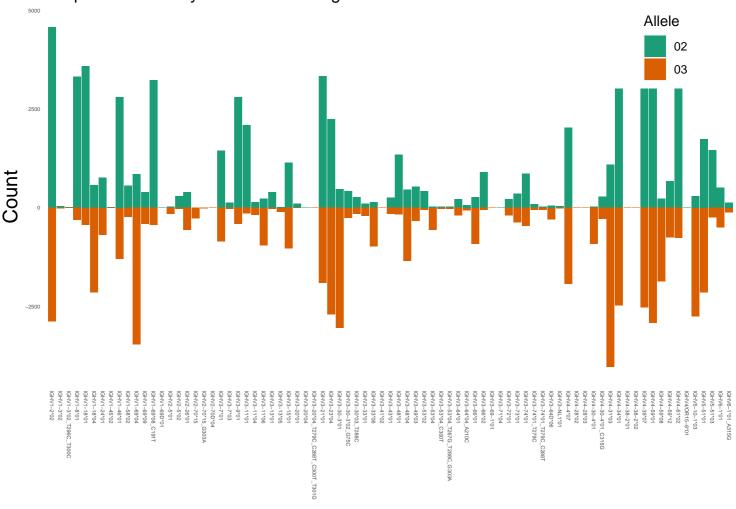








Sequence Count by IGHJ6 allele usage



Varning – no interred sequences tound.
Varning – no inferred sequences found.
Varning – no inferred sequences found. Varning – no inferred sequences found.
Varning – no inferred sequences found.
Varning – no inferred sequences found.
Varning – no inferred sequences found.
Varning – no inferred sequences found. Varning: sequence(s) for allele(s) IGHV3-72*01_A169G_A173G_A177G_T187G_A188T_C287G can't be found in the reference set or the novel alleles file.
Varning – no inferred sequences found.
Varning – no inferred sequences found. Varning – no inferred sequences found.
Varning – no inferred sequences found.