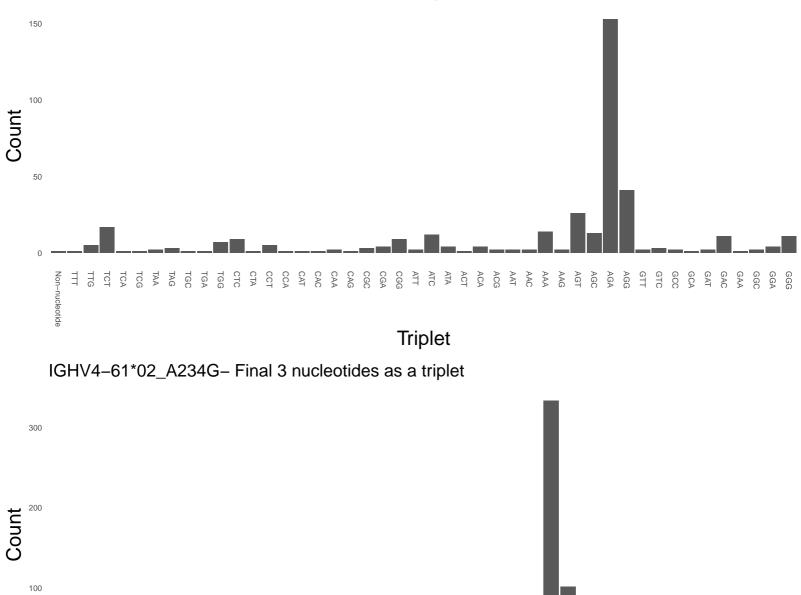
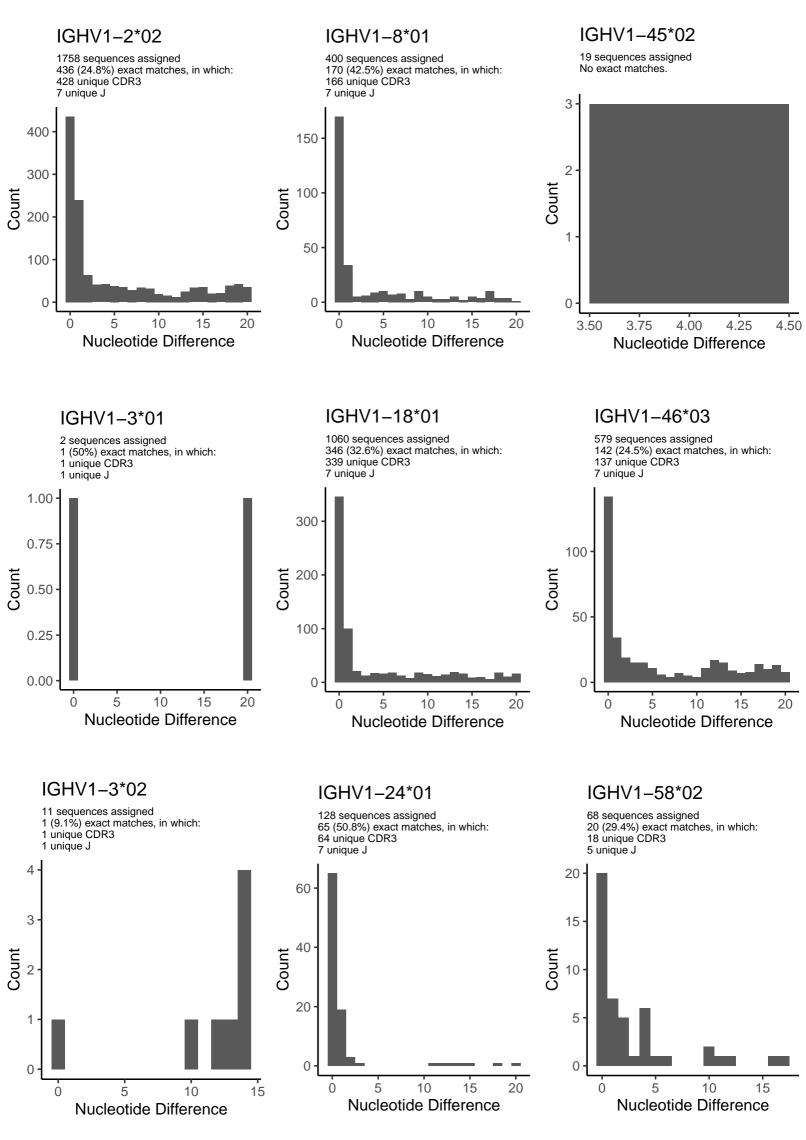


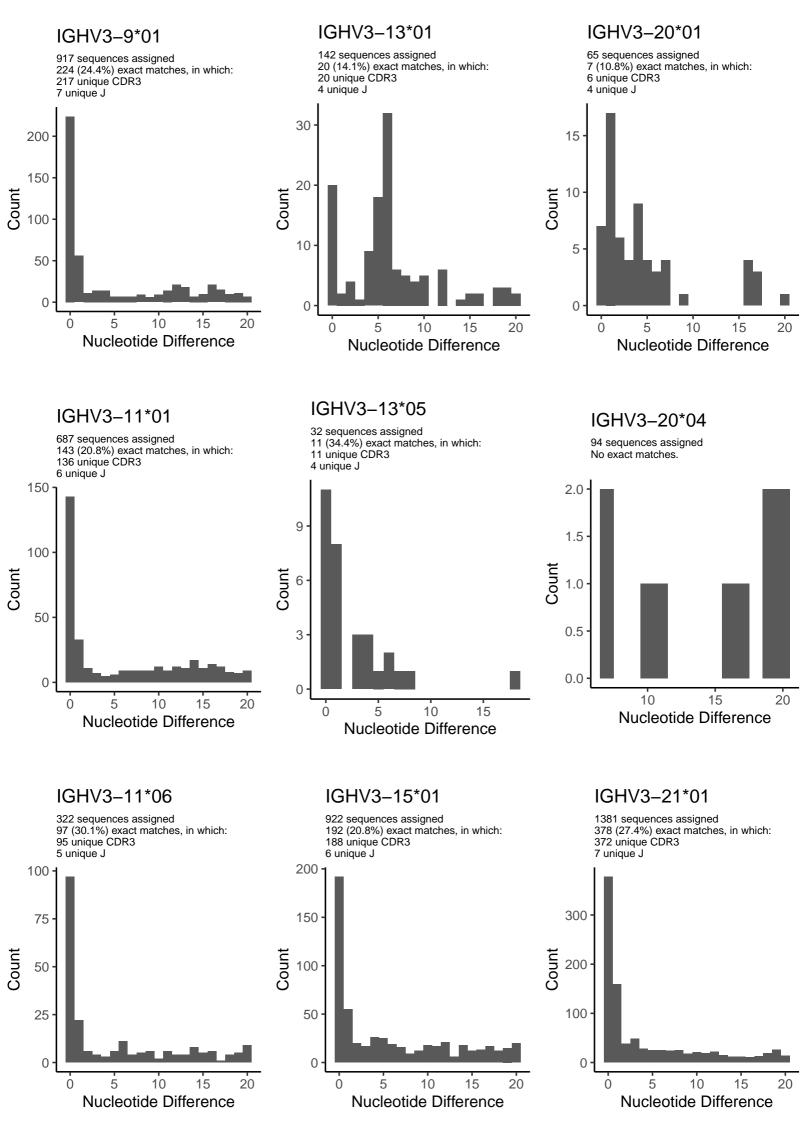
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet

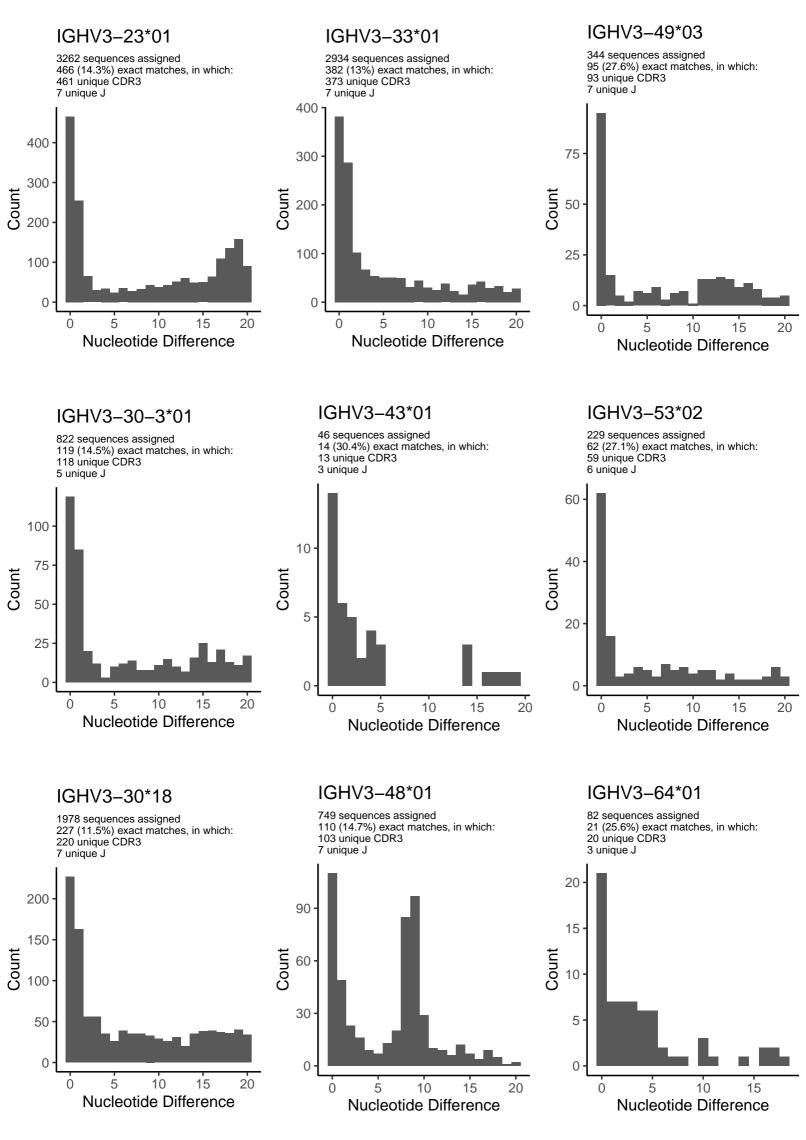


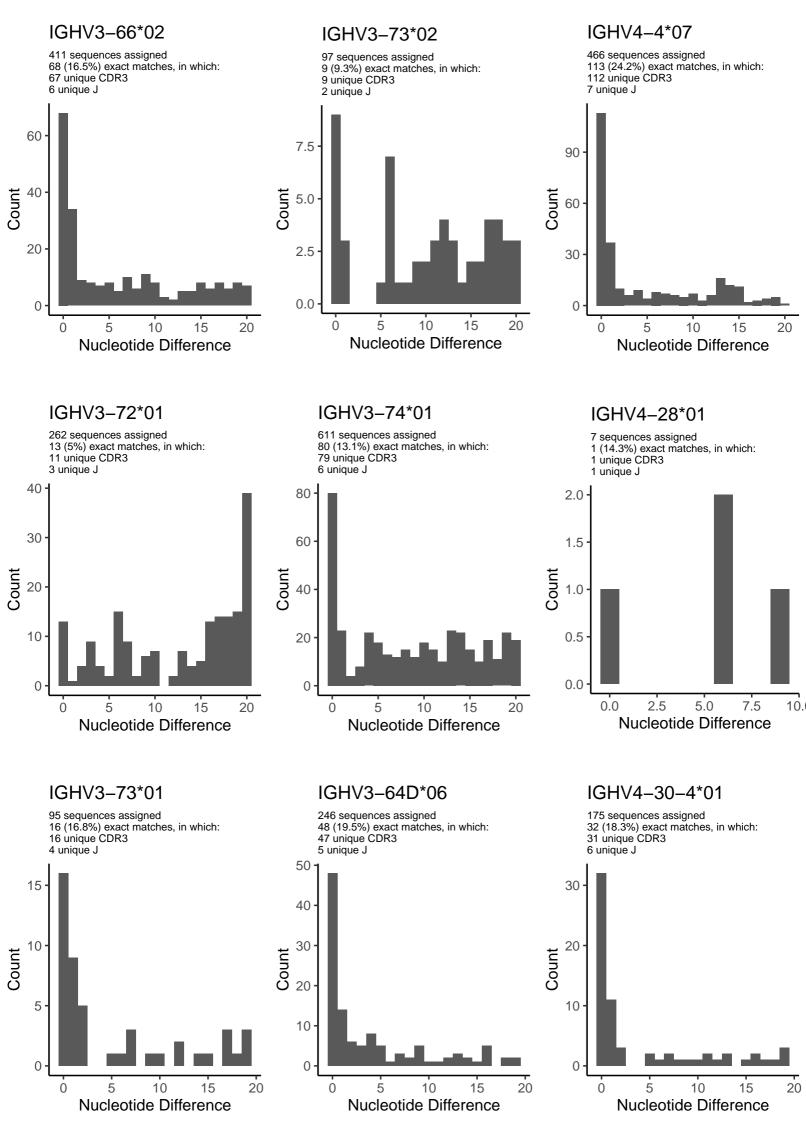
Triplet

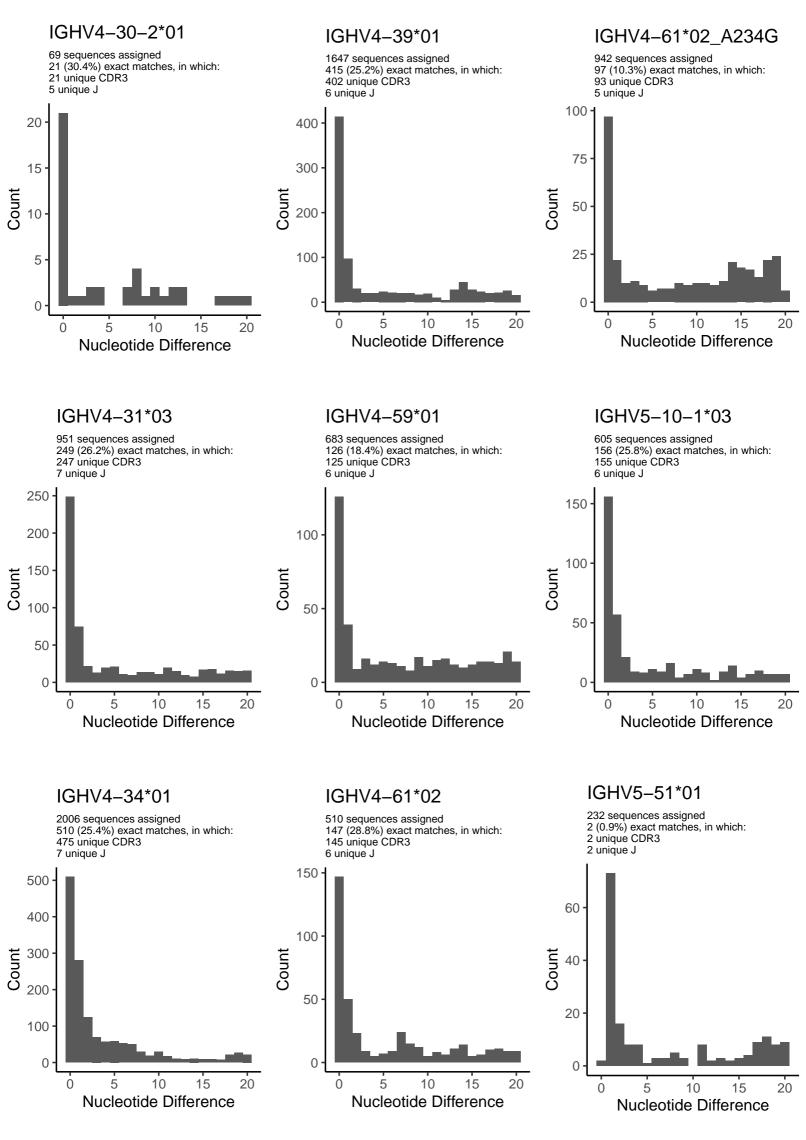


IGHV1-69*01 IGHV2-5*02 IGHV2-70D*14 709 sequences assigned 303 (42.7%) exact matches, in which: 634 sequences assigned 3 sequences assigned 98 (15.5%) exact matches, in which: No exact matches. 294 unique CDR3 98 unique CDR3 7 unique J 5 unique J 100 -1.00 300 0.75 75 200 Count 0.50 50 100 0.25 25 0.00 0 0 10 11 12 9 5 10 15 20 5 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-7*01 IGHV2-26*01 IGHV1-69*08_C191T 228 sequences assigned 80 (35.1%) exact matches, in which: 681 sequences assigned 394 sequences assigned 147 (37.3%) exact matches, in which: 68 (10%) exact matches, in which: 79 unique CDR3 64 unique CDR3 139 unique CDR3 6 unique J 5 unique J 6 unique J 150 80 60 100 Count Count 40 40 50 20 20 0 0 0 5 10 15 20 0 10 15 20 10 15 20 0 5 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-5*01 IGHV2-70*01 IGHV3-7*04 268 sequences assigned 294 sequences assigned 101 sequences assigned 60 (20.4%) exact matches, in which: 18 (17.8%) exact matches, in which: 37 (13.8%) exact matches, in which: 60 unique CDR3 18 unique CDR3 35 unique CDR3 5 unique J 4 unique J 6 unique J 15 30 Count Count 10 20 20 5 10 0 0 0 0 10 15 20 0 10 15 20 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference



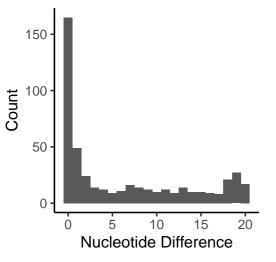






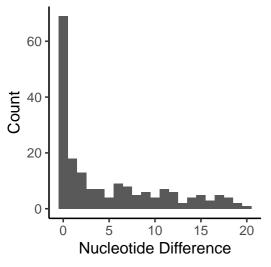
IGHV5-51*03

684 sequences assigned 165 (24.1%) exact matches, in which: 160 unique CDR3 7 unique J

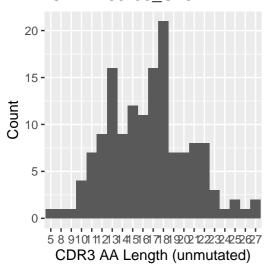


IGHV6-1*01

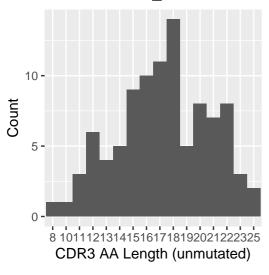
236 sequences assigned 69 (29.2%) exact matches, in which: 66 unique CDR3 6 unique J

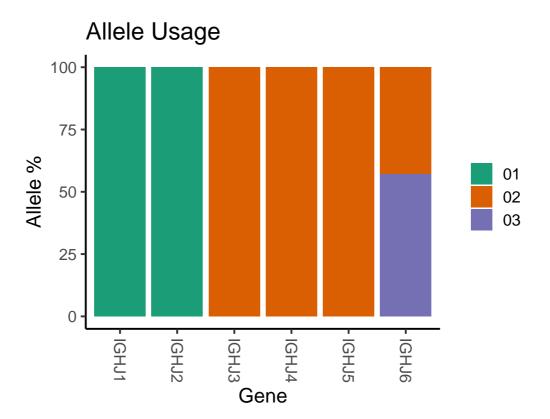


IGHV1-69*08_C191T



IGHV4-61*02_A234G





Sequence Count by IGHJ6 allele usage

