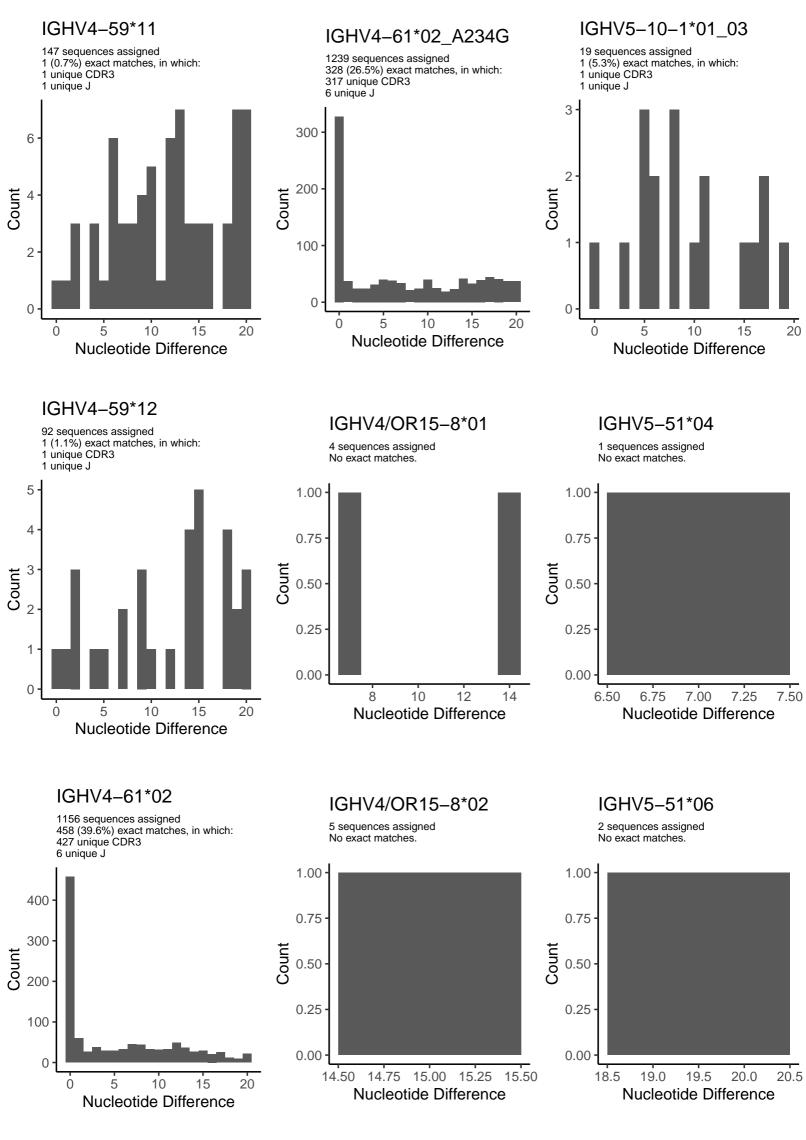
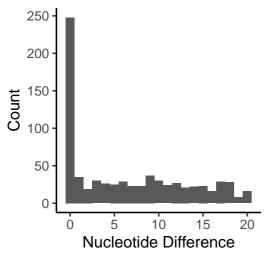


IGHV4-39*07 IGHV4-30-2*01 IGHV4-34*01_02 777 sequences assigned 280 (36%) exact matches, in which: 270 unique CDR3 423 sequences assigned 12 (2.8%) exact matches, in which: 3318 sequences assigned 1782 (53.7%) exact matches, in which: 11 unique CDR3 1736 unique CDR3 3 unique J 7 unique J 7 unique J 1500 20 200 Count Count 1000 100 10 500 0 0 10 0 5 15 20 5 10 15 20 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-59*02 IGHV4-38-2*02 IGHV4-30-4*01 252 sequences assigned 7 (2.8%) exact matches, in which: 7 unique CDR3 186 sequences assigned 1 (0.5%) exact matches, in which: 1 unique CDR3 1224 sequences assigned 291 (23.8%) exact matches, in which: 277 unique CDR3 2 unique J 1 unique J 7 unique J 300 15 6 200 10 Count Count 100 5 2 0 0 0 10 15 20 0 5 10 15 20 0 5 10 20 0 15 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV4-59*08 IGHV4-31*02 IGHV4-39*02 351 sequences assigned 1382 sequences assigned 148 sequences assigned 6 (1.7%) exact matches, in which: 528 (38.2%) exact matches, in which: 2 (1.4%) exact matches, in which: 4 unique CDR3 515 unique CDR3 2 unique CDR3 3 unique J 7 unique J 2 unique J 10.0 20 400 7.5 Count Count 5.0 10 200 2.5 0.0 0 20 5 10 5 10 15 20 0 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**



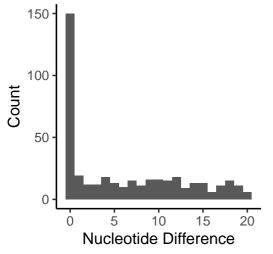
IGHV6-1*01_02

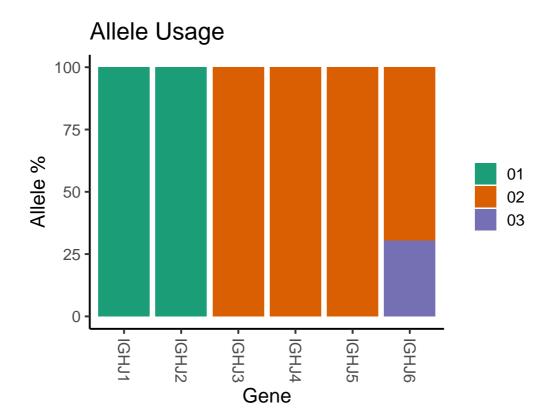
801 sequences assigned 248 (31%) exact matches, in which: 243 unique CDR3 6 unique J



IGHV7-4-1*02

446 sequences assigned 150 (33.6%) exact matches, in which: 148 unique CDR3 7 unique J





Sequence Count by IGHJ6 allele usage

