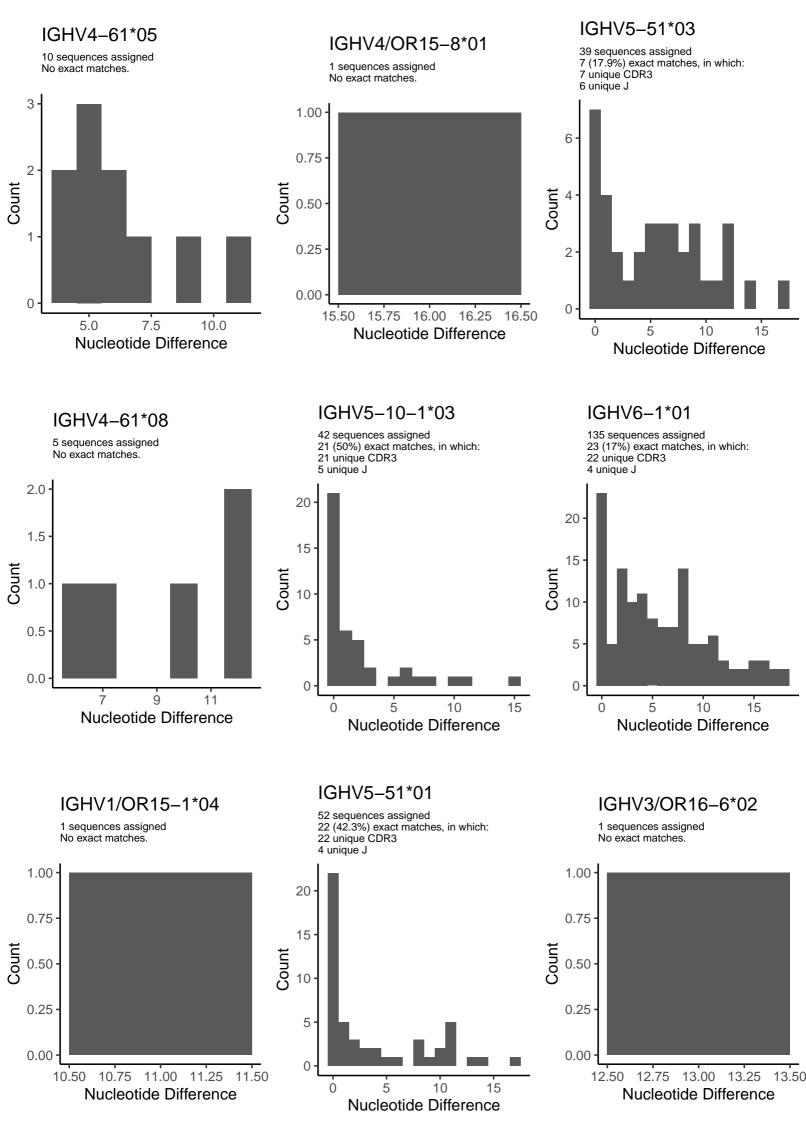
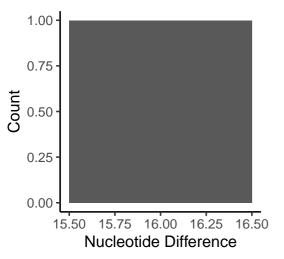


IGHV4-31*03 IGHV4-39*01 IGHV4-59*08 87 sequences assigned 22 (25.3%) exact matches, in which: 356 sequences assigned 78 (21.9%) exact matches, in which: 151 sequences assigned 56 (37.1%) exact matches, in which: 22 unique CDR3 78 unique CDR3 56 unique CDR3 4 unique J 5 unique J 6 unique J 80 20 60 40 15 Count Count 40 10 20 20 5 0 0 0 10 10 20 0 15 0 5 15 0 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-59*12 IGHV4-34*01 IGHV4-39*07 246 sequences assigned 32 (13%) exact matches, in which: 785 sequences assigned 253 (32.2%) exact matches, in which: 706 sequences assigned 115 (16.3%) exact matches, in which: 32 unique CDR3 253 unique CDR3 114 unique CDR3 4 unique J 6 unique J 6 unique J 120 250 30 200 90 150 Count 60 100 10 30 50 0 0 0 10 15 20 5 10 15 20 0 5 0 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV4-61*01 IGHV4-38-2*02 IGHV4-59*01 12 sequences assigned 1 (8.3%) exact matches, in which: 163 sequences assigned 107 sequences assigned 14 (8.6%) exact matches, in which: 28 (26.2%) exact matches, in which: 1 unique CDR3 14 unique CDR3 28 unique CDR3 1 unique J 4 unique J 4 unique J 6 20 Count Count Count 10 2 5 0 0 0 0 5 10 15 20 0 5 10 15 20 0.0 2.5 5.0 7.5 10. Nucleotide Difference **Nucleotide Difference Nucleotide Difference**



IGHV3/OR16-10*03

1 sequences assigned No exact matches.



IGHV7-4-1*02

191 sequences assigned 49 (25.7%) exact matches, in which: 46 unique CDR3 6 unique J

