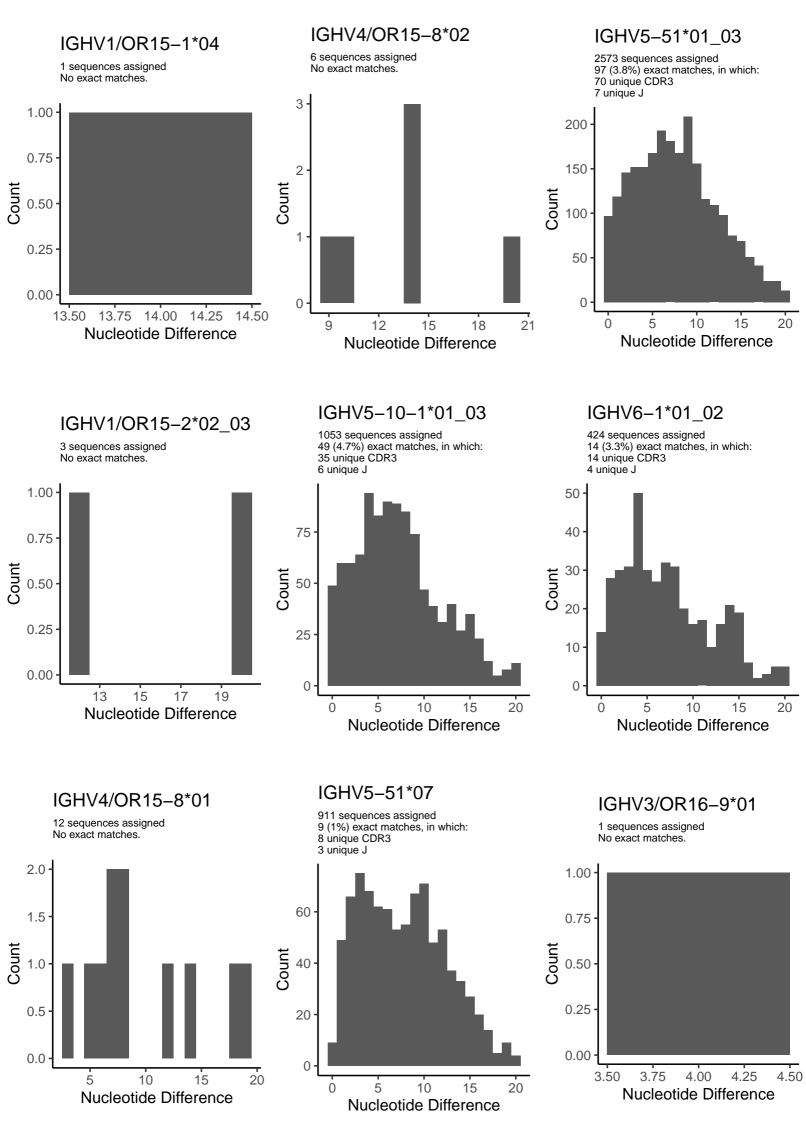


IGHV4-31*02 IGHV4-39*07 IGHV4-59*01_07 2123 sequences assigned 78 (3.7%) exact matches, in which: 71 unique CDR3 1161 sequences assigned 31 (2.7%) exact matches, in which: 2643 sequences assigned 69 (2.6%) exact matches, in which: 55 unique CDR3 25 unique CDR3 5 unique J 7 unique J 6 unique J 80 150 150 60 100 Count Count 100 40 50 50 20 0 0 0 10 15 20 5 20 5 10 15 0 0 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV4-61*01 IGHV4-59*08 IGHV4-34*01_02 442 sequences assigned 10 (2.3%) exact matches, in which: 1839 sequences assigned 304 (16.5%) exact matches, in which: 1308 sequences assigned 39 (3%) exact matches, in which: 9 unique CDR3 34 unique CDR3 233 unique CDR3 4 unique J 6 unique J 7 unique J 300 30 90 200 Count Count Count 20 60 100 10 30 0 0 0 10 15 20 0 5 10 15 20 0 5 10 15 20 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-38-2*02 IGHV4-59*12 IGHV4-61*02 778 sequences assigned 1289 sequences assigned 2040 sequences assigned 25 (3.2%) exact matches, in which: 5 (0.4%) exact matches, in which: 61 (3%) exact matches, in which: 20 unique CDR3 5 ùniqué CDR3 51 unique CDR3 5 unique J 4 unique J 6 unique J 150 100 60 75 100 Count Count 40 50 50 20 25 0 0 0 5 10 15 20 5 10 15 20 0 10 0 5 15 20

Nucleotide Difference

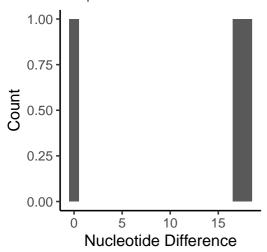
Nucleotide Difference

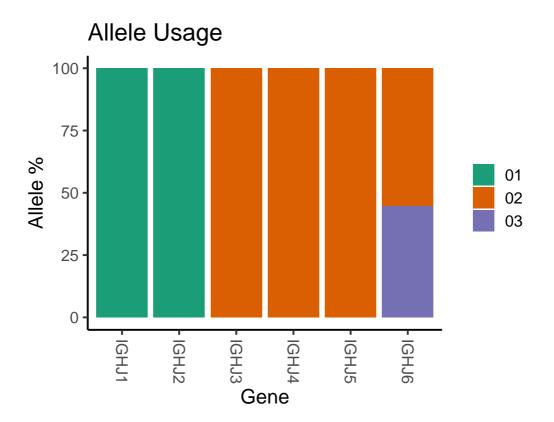
Nucleotide Difference



IGHV7-4-1*01

- 3 sequences assigned 1 (33.3%) exact matches, in which: 1 unique CDR3 1 unique J





Sequence Count by IGHJ6 allele usage

