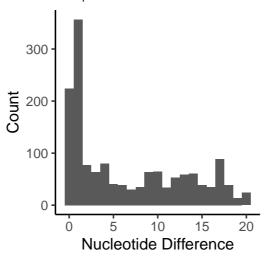


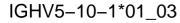
412 sequences assigned No exact matches. 60 40 20 5 10 15 20 Nucleotide Difference

IGHV4-61*08

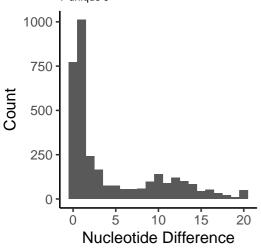
IGHV6-1*01_02

1654 sequences assigned 224 (13.5%) exact matches, in which: 179 unique CDR3 7 unique J



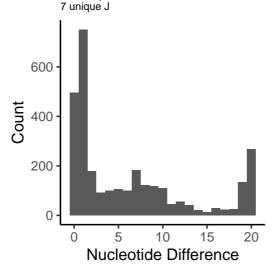


3606 sequences assigned 772 (21.4%) exact matches, in which: 519 unique CDR3 7 unique J



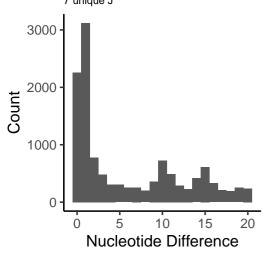
IGHV7-4-1*02

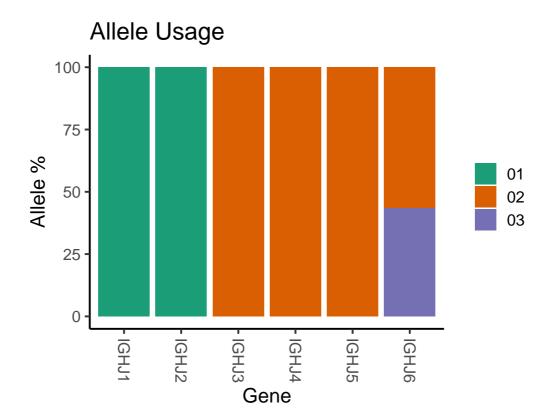
4083 sequences assigned 497 (12.2%) exact matches, in which: 377 unique CDR3



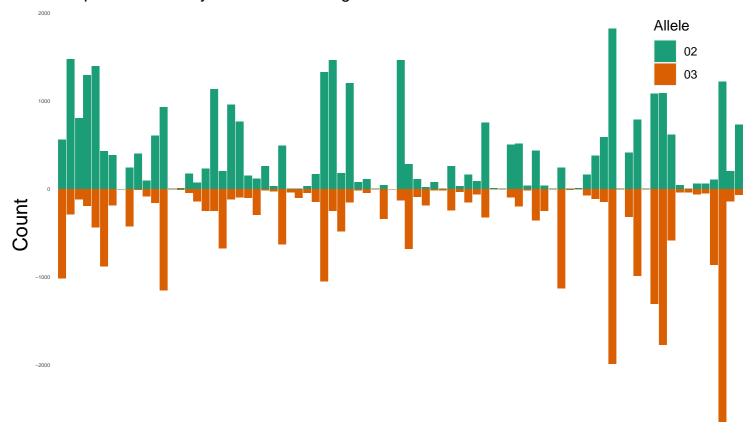
IGHV5-51*01_03

14015 sequences assigned 2261 (16.1%) exact matches, in which: 1277 unique CDR3 7 unique J





Sequence Count by IGHJ6 allele usage



Novel sequence(s) IGHV1-69*01_12_13_G238A IGHV3-48*03_T303G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51*07_A128G are not listed in the genotype and will be ignored.