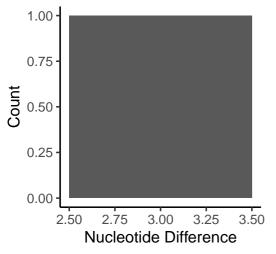


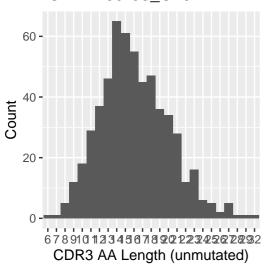
IGHV5-51*03 IGHV3/OR16-15*02 455 sequences assigned 410 (90.1%) exact matches, in which: 395 unique CDR3 1 sequences assigned No exact matches. 6 unique J 1.00 -400 0.75 300 Count Count Count 200 0.25 100 0.00 0 4.50 4.75 5.00 5.25 5.50 5 10 15 **Nucleotide Difference Nucleotide Difference** IGHV7-81*01 IGHV6-1*01 2 sequences assigned 193 sequences assigned 166 (86%) exact matches, in which: 155 unique CDR3 2 (100%) exact matches, in which: 2 unique CDR3 2 unique J 7 unique J 2.0 150 1.5 100 Count 1.0 50 0.5 0 0.0 5 10 15 0 -0.250.00 0.25 0.50 -0.50**Nucleotide Difference Nucleotide Difference**

IGHV3/OR16-12*01

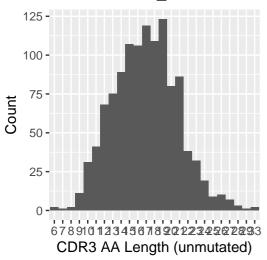
1 sequences assigned No exact matches.

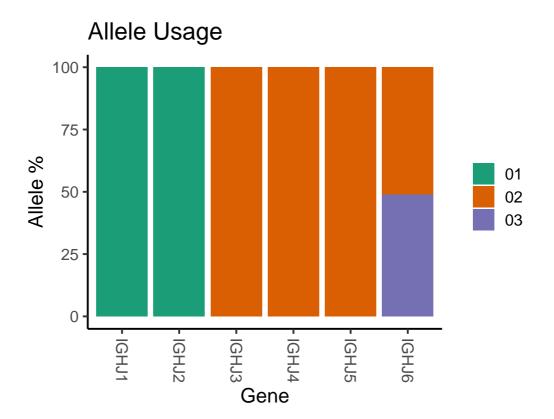


IGHV1-69*08_C191T

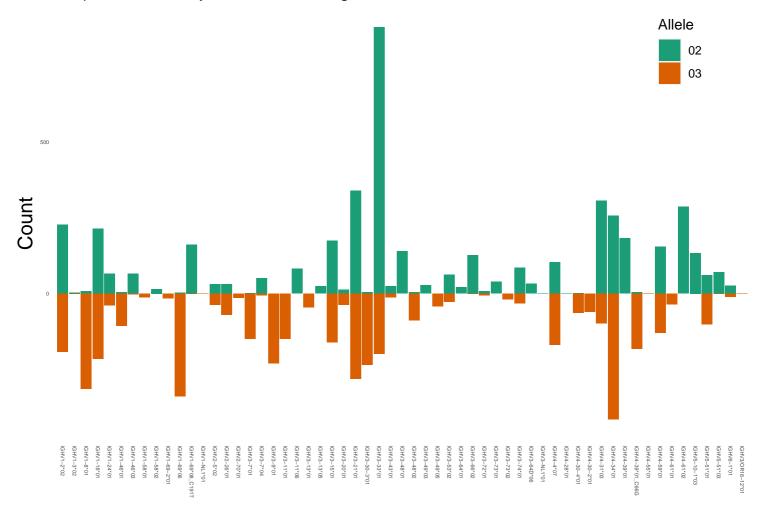


IGHV4-39*01_C66G





Sequence Count by IGHJ6 allele usage



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