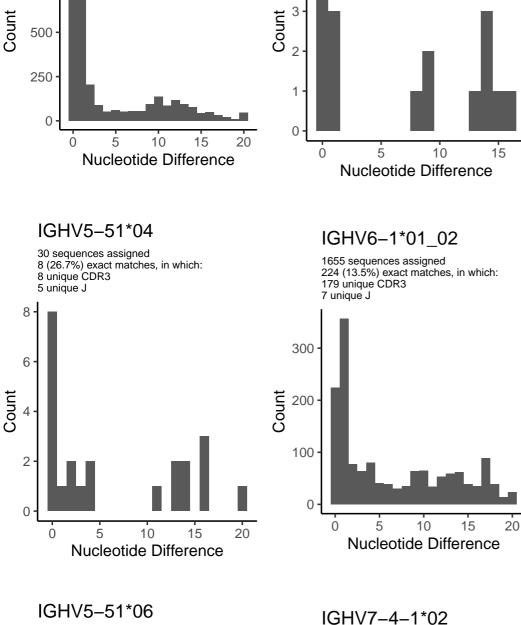
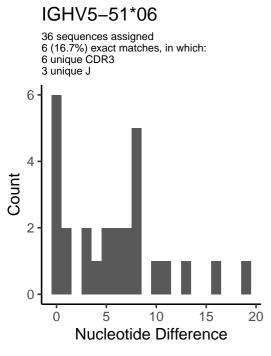
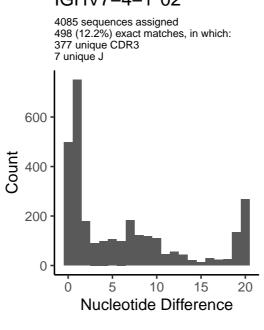
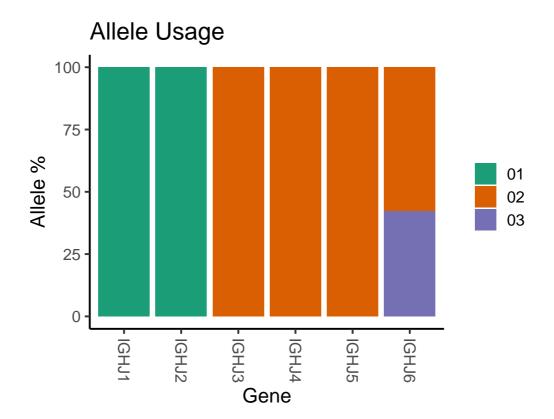


IGHV5-51*07 IGHV5-10-1*01_03 22 sequences assigned 5 (22.7%) exact matches, in which: 5 unique CDR3 3434 sequences assigned 775 (22.6%) exact matches, in which: 521 unique CDR3 7 unique J 3 unique J 1000 4 750 3 Count 2 Count 500 250 1 0 0 0 10 15 20 0 **Nucleotide Difference** IGHV5-51*04 30 sequences assigned 8 (26.7%) exact matches, in which: 8 unique CDR3 179 unique CDR3 5 unique J 7 unique J 300 6

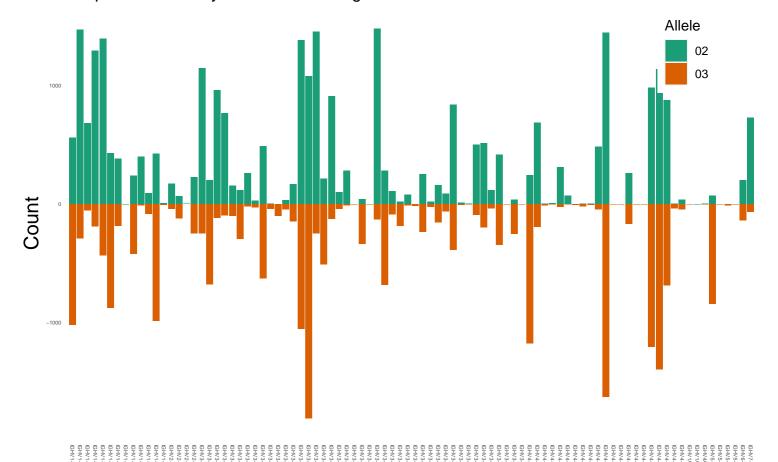








Sequence Count by IGHJ6 allele usage



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