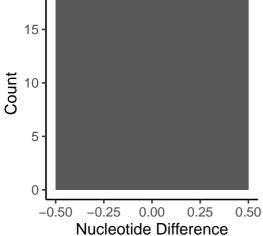
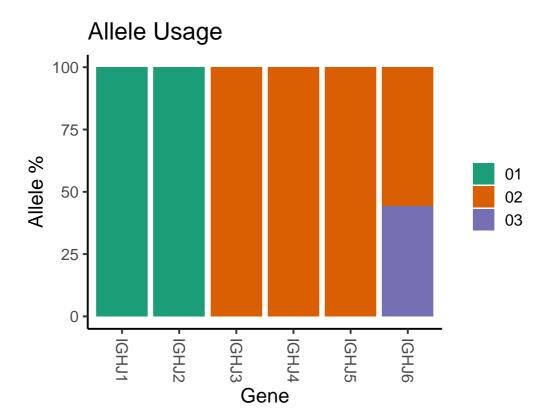


## IGHV4-59\*01 IGHV5-51\*01 16 sequences assigned 15 (93.8%) exact matches, in which: 15 unique CDR3 47 sequences assigned 44 (93.6%) exact matches, in which: 44 unique CDR3 6 unique J 6 unique J 40 30 10 Count 20 Count 5 10 0 0 0 8 **Nucleotide Difference** Nucleotide Difference IGHV4-61\*01 IGHV6-1\*01 5 sequences assigned 4 (80%) exact matches, in which: 4 unique CDR3 17 sequences assigned 14 (82.4%) exact matches, in which: 14 unique CDR3 2 unique J 5 unique J 3 10 Count 2 5 1 0 0 0 0 **Nucleotide Difference Nucleotide Difference** IGHV5-10-1\*03 18 sequences assigned 18 (100%) exact matches, in which: 18 unique CDR3 6 unique J





## Sequence Count by IGHJ6 allele usage

