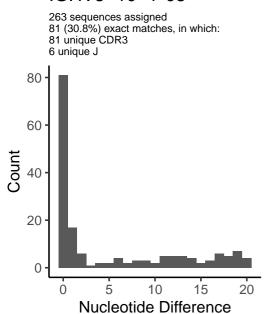
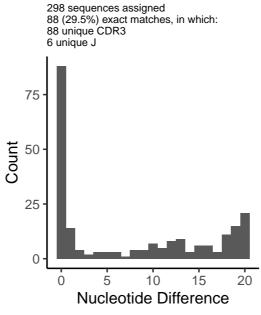


## IGHV5-10-1\*01 IGHV6-1\*01 148 sequences assigned 47 (31.8%) exact matches, in which: 47 unique CDR3 222 sequences assigned 43 (19.4%) exact matches, in which: 43 unique CDR3 6 unique J 6 unique J 40 40 30 30 Count 20 10 10 0 0 0 5 10 15 20 0 5 10 15 Nucleotide Difference Nucleotide Difference IGHV5-10-1\*03 IGHV7-4-1\*02

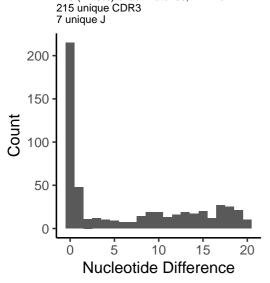


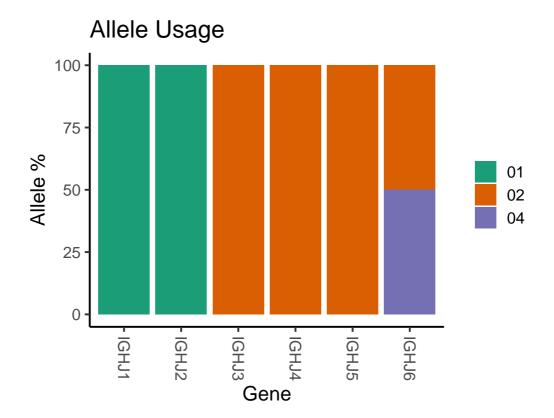


20

## IGHV5-51\*01

780 sequences assigned 215 (27.6%) exact matches, in which:





## Sequence Count by IGHJ6 allele usage

