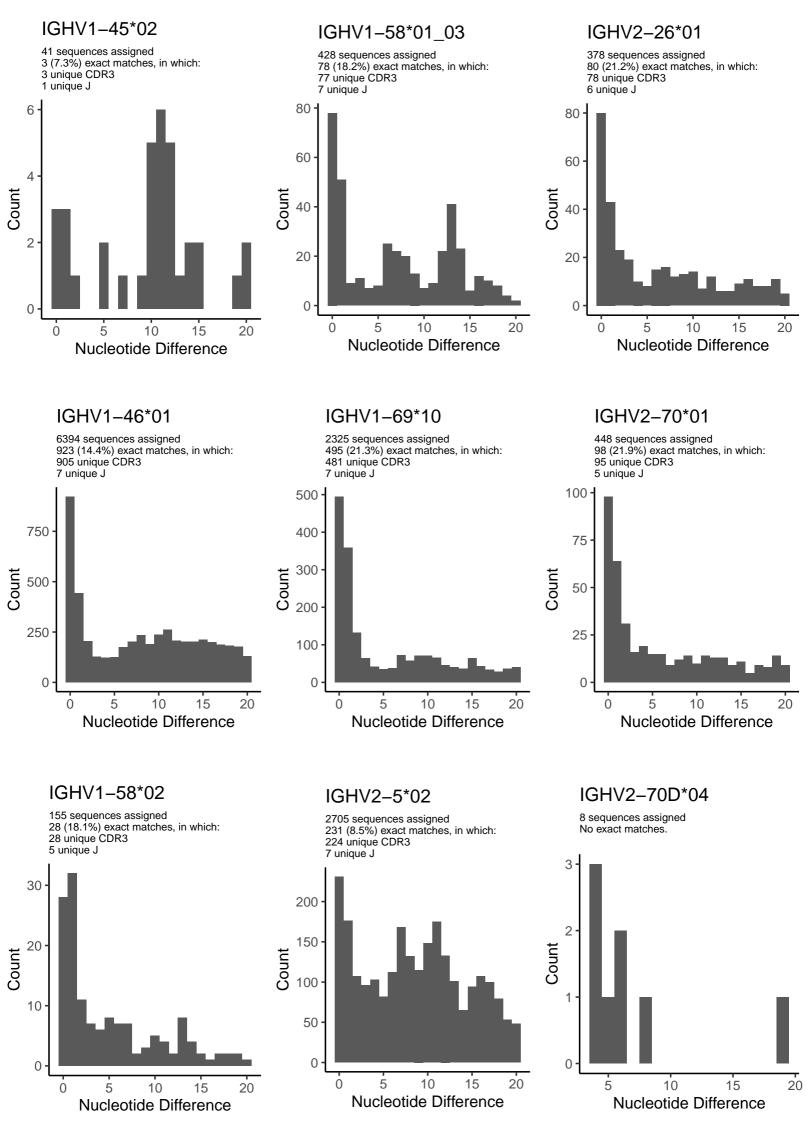
IGHV1-3*01_05 IGHV1-2*04 IGHV1-18*01 6199 sequences assigned 685 (11.1%) exact matches, in which: 5962 sequences assigned 794 sequences assigned 652 (10.9%) exact matches, in which: 124 (15.6%) exact matches, in which: 631 unique CDR3 119 unique CDR3 666 unique CDR3 7 unique J 7 unique J 7 unique J 120 600 600 80 400 Count 400 Count 40 200 200 0 0 0 15 20 5 10 15 20 5 10 20 5 10 15 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-2*05 IGHV1-8*01 IGHV1-18*04 153 sequences assigned 21 (13.7%) exact matches, in which: 2990 sequences assigned 439 (14.7%) exact matches, in which: 4831 sequences assigned 774 (16%) exact matches, in which: 21 unique CDR3 747 unique CDR3 423 unique CDR3 4 unique J 7 unique J 7 unique J 800 20 400 600 15 300 Count Count 400 10 200 200 5 100 0 0 0 20 10 15 10 15 20 0 5 0 5 10 15 20 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-8*02 IGHV1-24*01 IGHV1-2*06 486 sequences assigned 1559 sequences assigned 104 sequences assigned 1 (0.2%) exact matches, in which: 312 (20%) exact matches, in which: No exact matches. 1 unique CDR3 306 unique CDR3 1 unique J 7 unique J 10.0 40 300 7.5 30 200 Count Count 5.0 20 100 2.5 10 0.0 0 0 20 5 10 15 10 20 0 15 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**

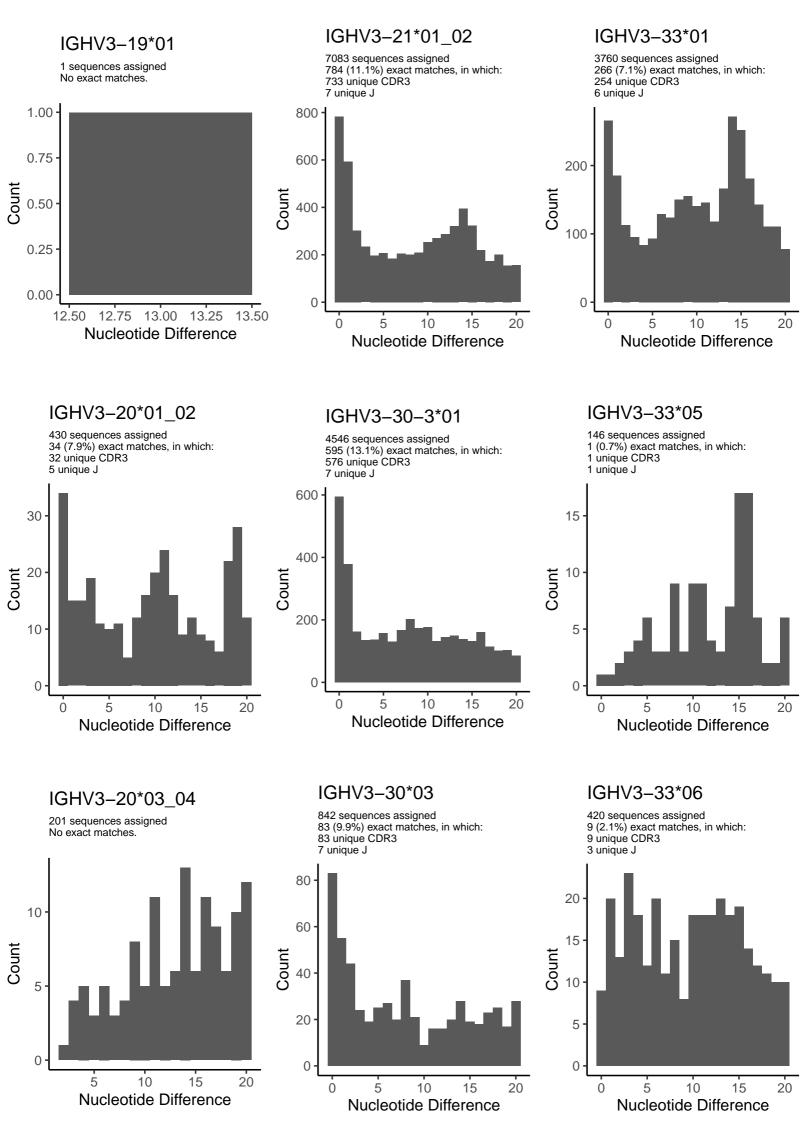


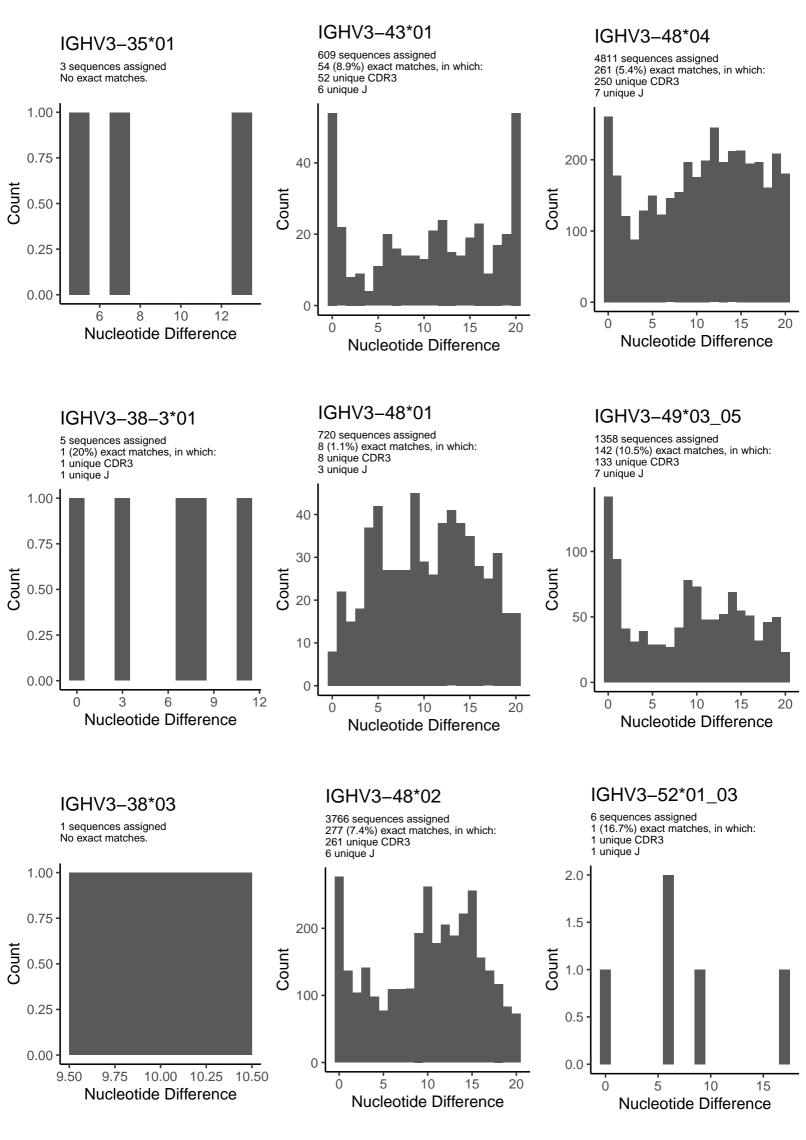
IGHV3-13*01 IGHV3-7*01 IGHV3-11*01 871 sequences assigned 47 (5.4%) exact matches, in which: 8339 sequences assigned 2469 sequences assigned 220 (2.6%) exact matches, in which: 172 (7%) exact matches, in which: 44 unique CDR3 209 unique CDR3 169 unique CDR3 7 unique J 7 unique J 7 unique J 400 150 75 300 Count 100 Count Count 200 50 25 100 0 0 0 5 10 15 20 5 10 15 20 0 10 15 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11*04 IGHV3-13*05 IGHV3-7*03 407 sequences assigned 14 (3.4%) exact matches, in which: 174 sequences assigned 8626 sequences assigned 301 (3.5%) exact matches, in which: 31 (17.8%) exact matches, in which: 14 unique CDR3 30 unique CDR3 287 unique CDR3 5 unique J 4 unique J 7 unique J 500 30 400 20 Count Count Count 300 200 10 10 100 0 0 0 10 15 20 0 5 10 15 20 10 15 20 0 5 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-9*01 IGHV3-11*06 IGHV3-15*01_02 2755 sequences assigned 1641 sequences assigned 3776 sequences assigned 143 (8.7%) exact matches, in which: 345 (12.5%) exact matches, in which: 248 (6.6%) exact matches, in which: 337 unique CDR3 141 unique CDR3 242 unique CDR3 7 unique J 6 unique J 7 unique J 150 250 300 200 100 150 Count 200 100 50 100 50 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0

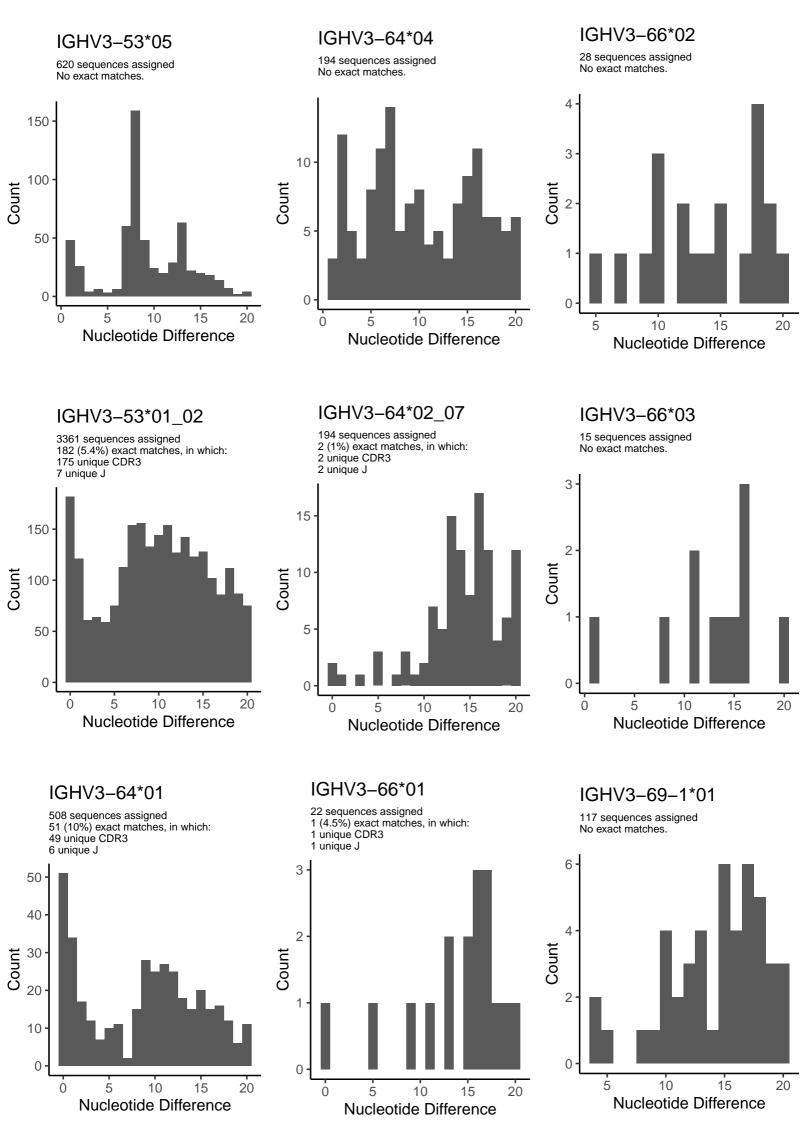
Nucleotide Difference

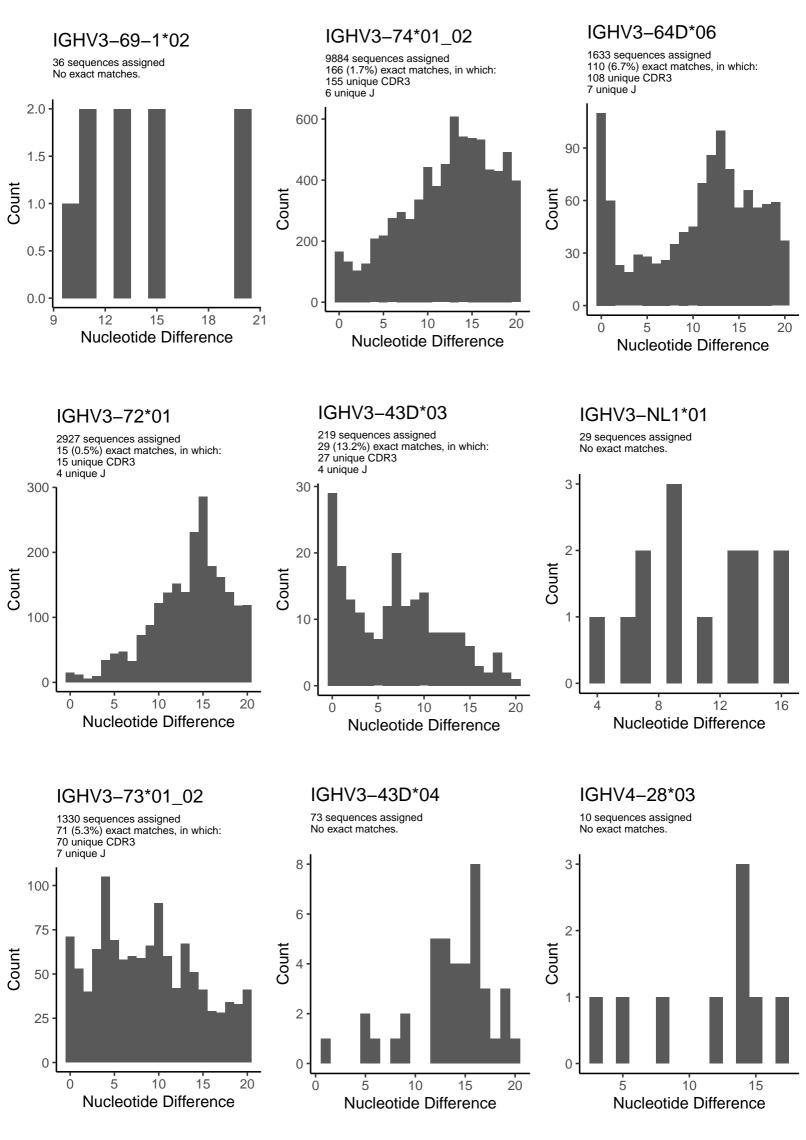
Nucleotide Difference

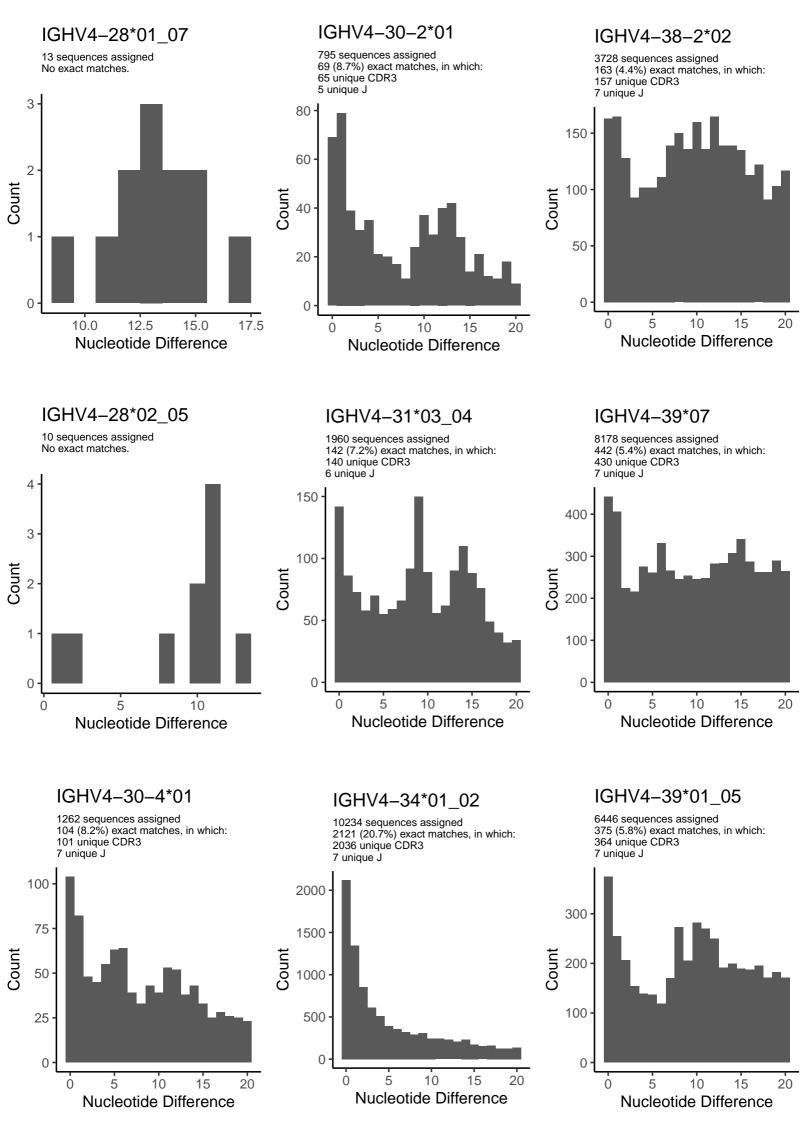
Nucleotide Difference

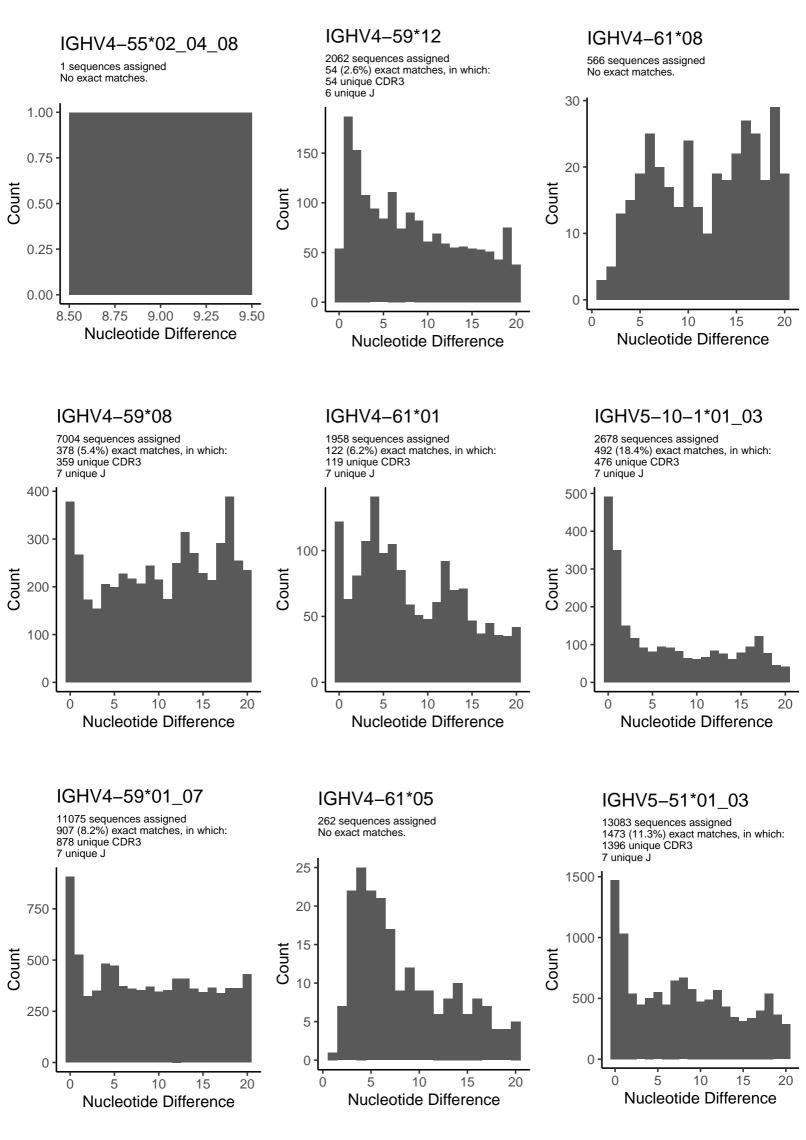






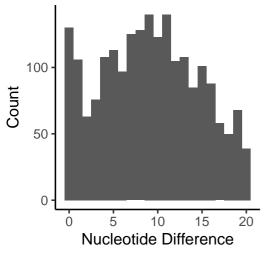






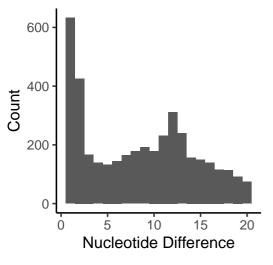
IGHV6-1*01_02

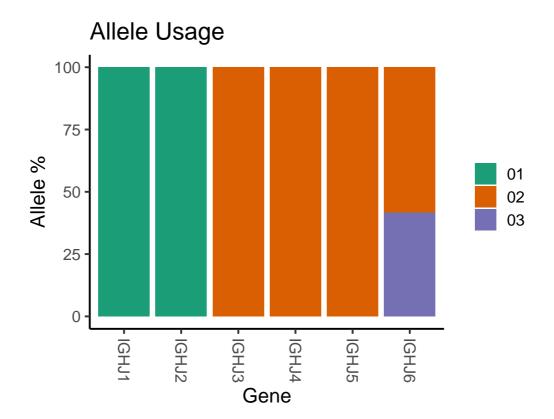
2196 sequences assigned 130 (5.9%) exact matches, in which: 128 unique CDR3 7 unique J



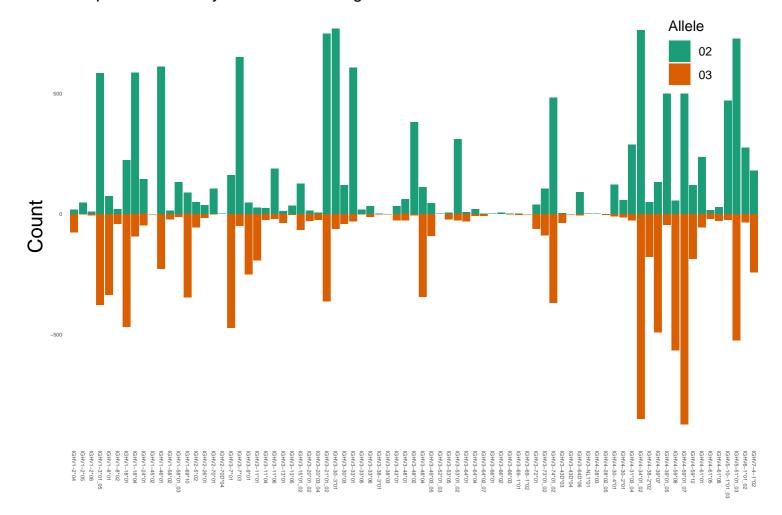
IGHV7-4-1*02

4758 sequences assigned No exact matches.





Sequence Count by IGHJ6 allele usage



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

Warning – no inferred sequences found.

Novel sequence(s) IGHV5-51*07_A128G 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.

Novel sequence(s) IGHV7-4-1*02_T63C are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV7-4-1*02_T63C are not listed in the genotype and will be ignored.