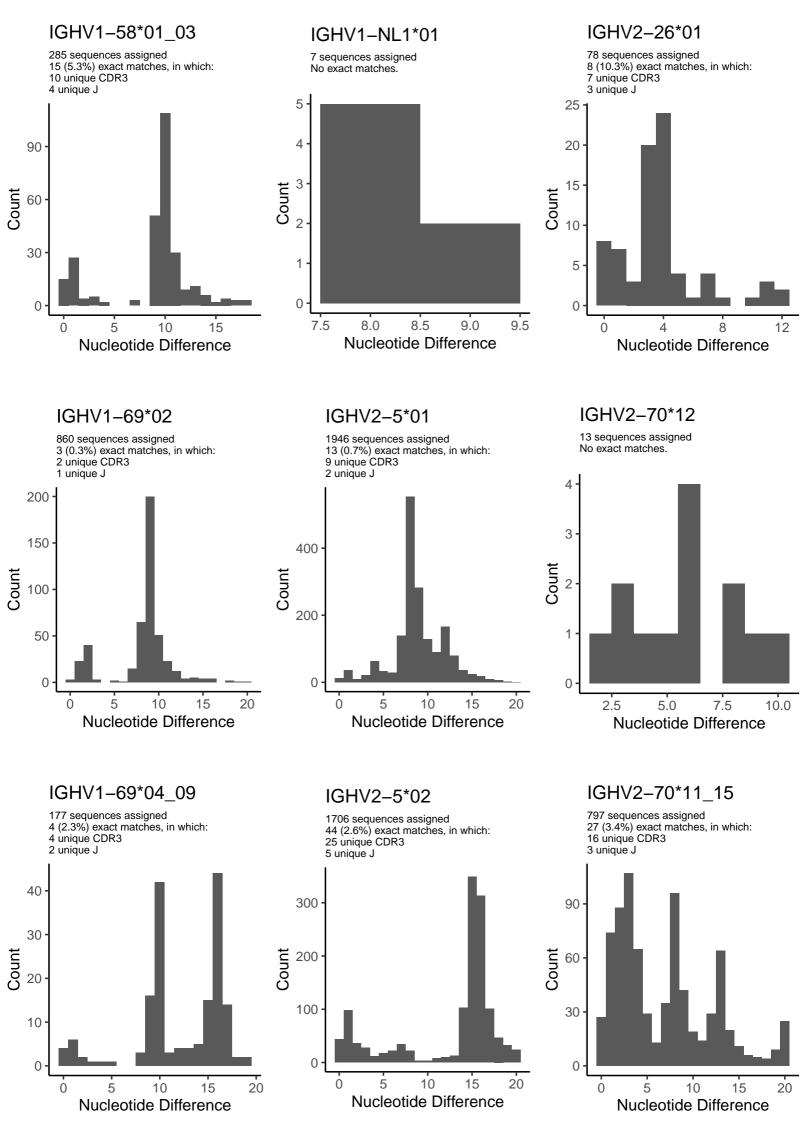
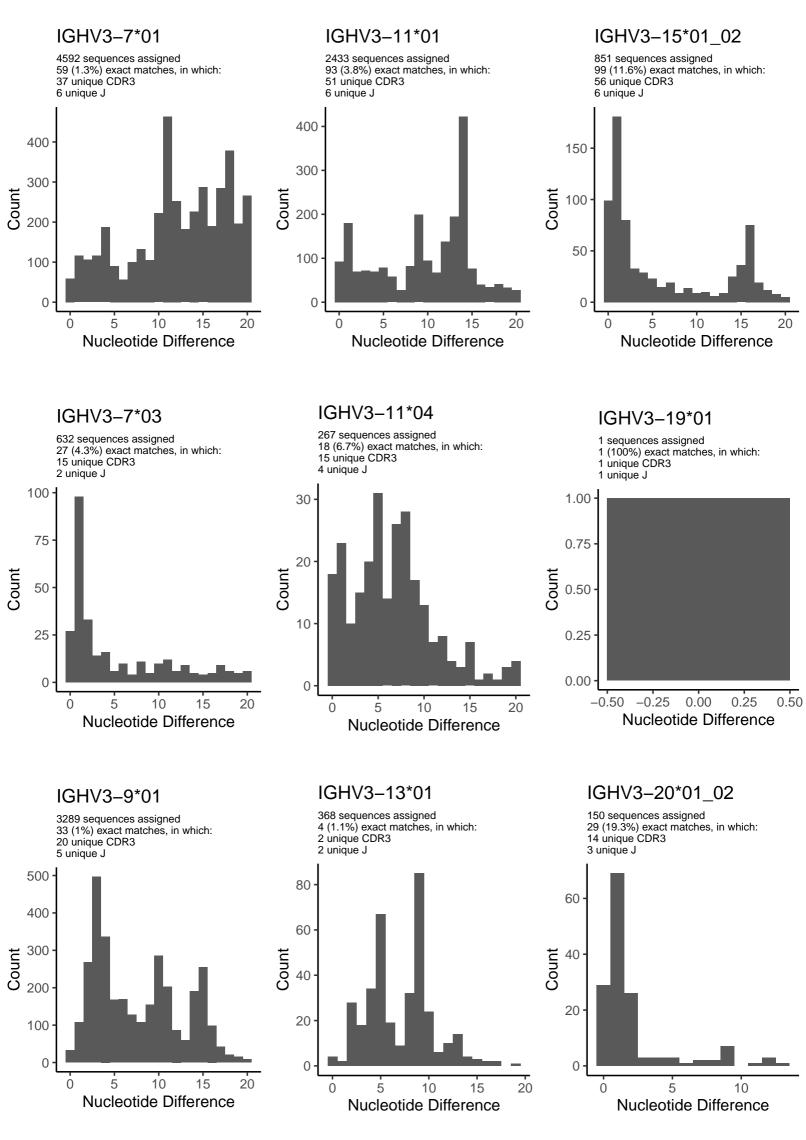
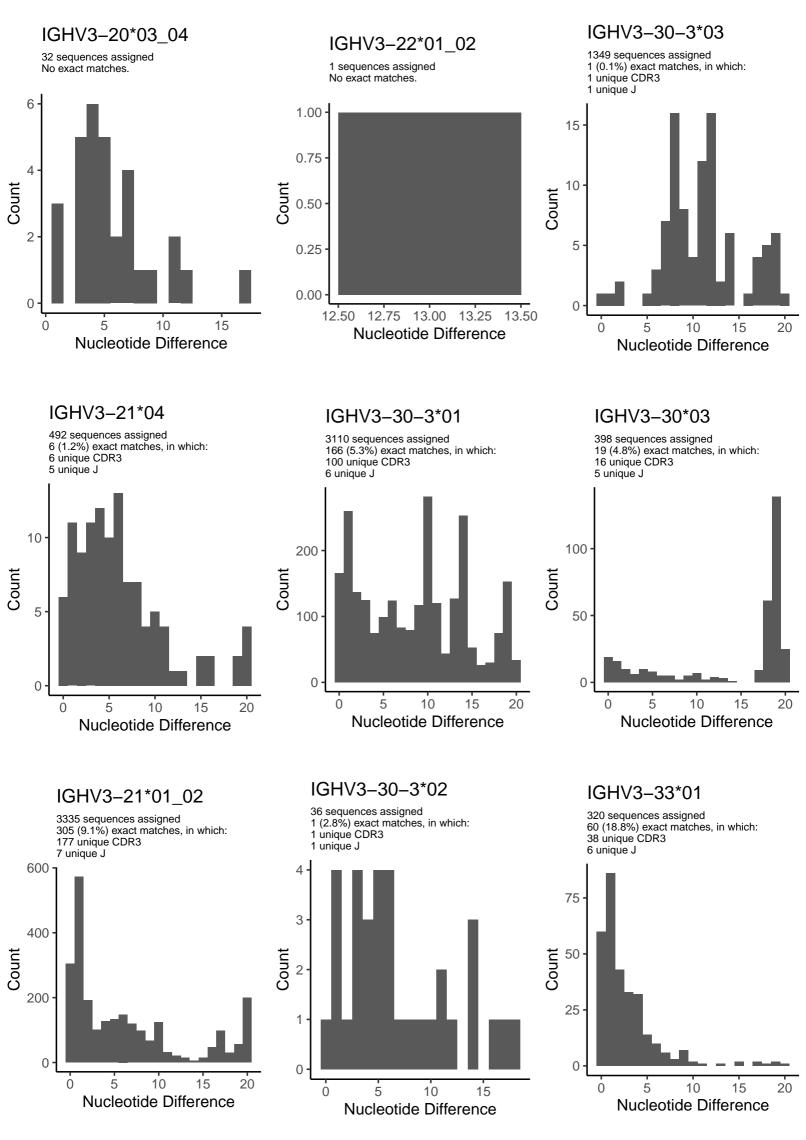
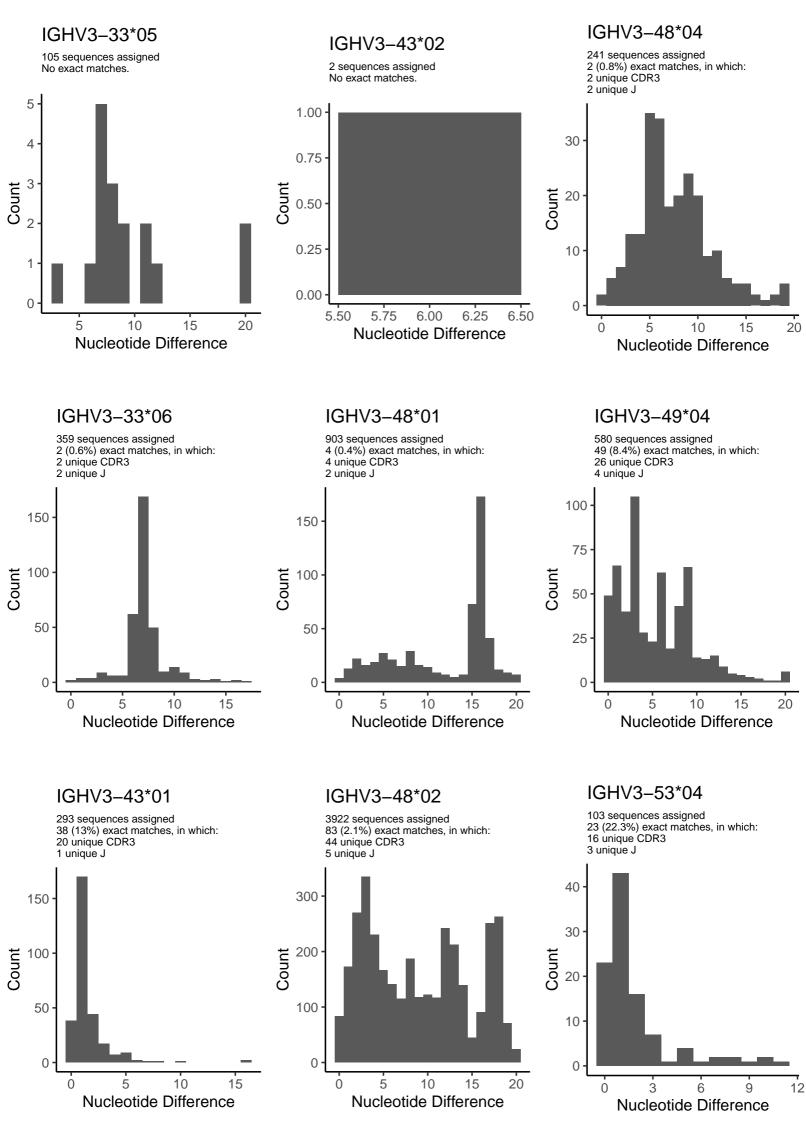
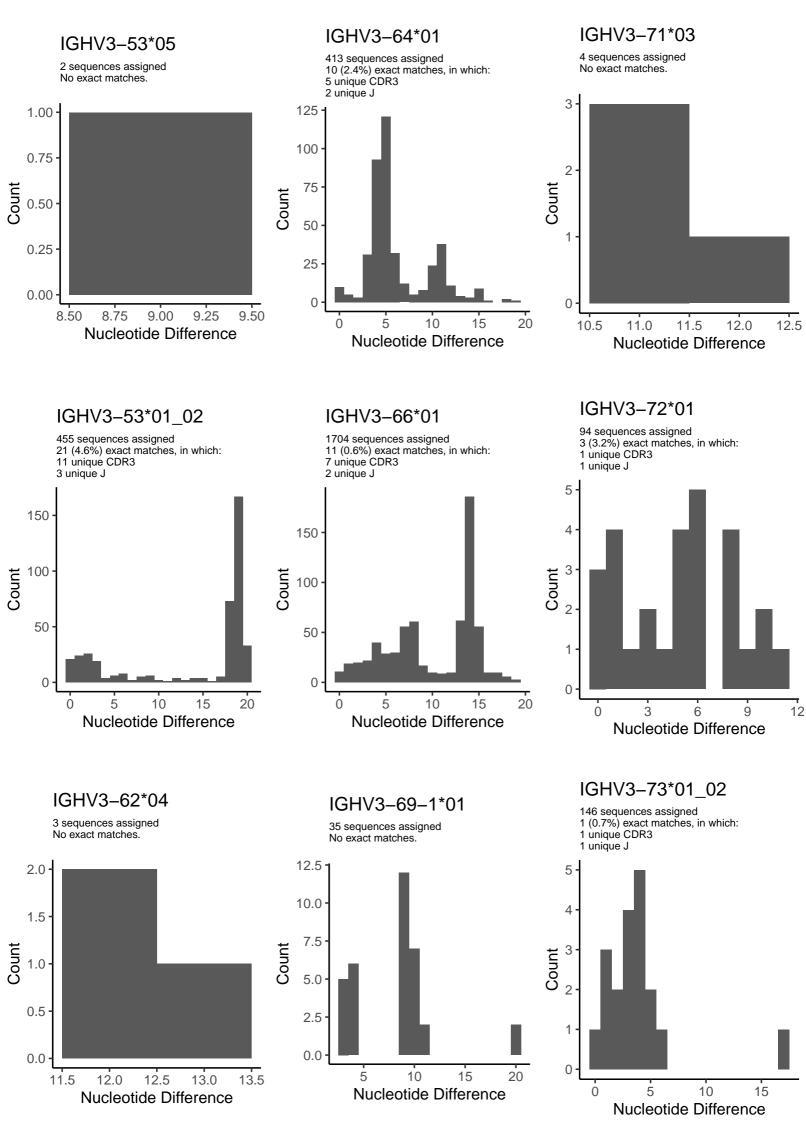
## IGHV1-2\*06 IGHV1-18\*01 IGHV1-46\*01 3729 sequences assigned 804 sequences assigned 6634 sequences assigned 207 (3.1%) exact matches, in which: 125 (3.4%) exact matches, in which: 64 (8%) exact matches, in which: 78 unique CDR3 37 unique CDR3 129 unique CDR3 7 unique J 6 unique J 5 unique J 150 800 600 600 100 400 Count Count 400 50 200 200 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-3\*01\_05 IGHV1-18\*04 IGHV1-46\*03 3193 sequences assigned 27 (0.8%) exact matches, in which: 2756 sequences assigned 44 (1.6%) exact matches, in which: 1145 sequences assigned 9 (0.8%) exact matches, in which: 18 uniqué CDR3 7 uniqué CDR3 33 unique CDR3 4 unique J 5 unique J 4 unique J 500 200 400 200 150 300 Count Count Count 100 200 100 50 100 0 0 0 15 20 10 15 20 20 0 5 10 0 5 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-8\*01 IGHV1-24\*01 IGHV1-58\*02 1073 sequences assigned 392 sequences assigned 709 sequences assigned 76 (7.1%) exact matches, in which: 10 (2.6%) exact matches, in which: 25 (3.5%) exact matches, in which: 53 unique CDR3 9 unique CDR3 16 ùniqué CDR3 6 unique J 3 unique J 3 unique J 100 200 90 75 150 Count Count 50 100 30 25 50 0 0 20 5 10 15 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

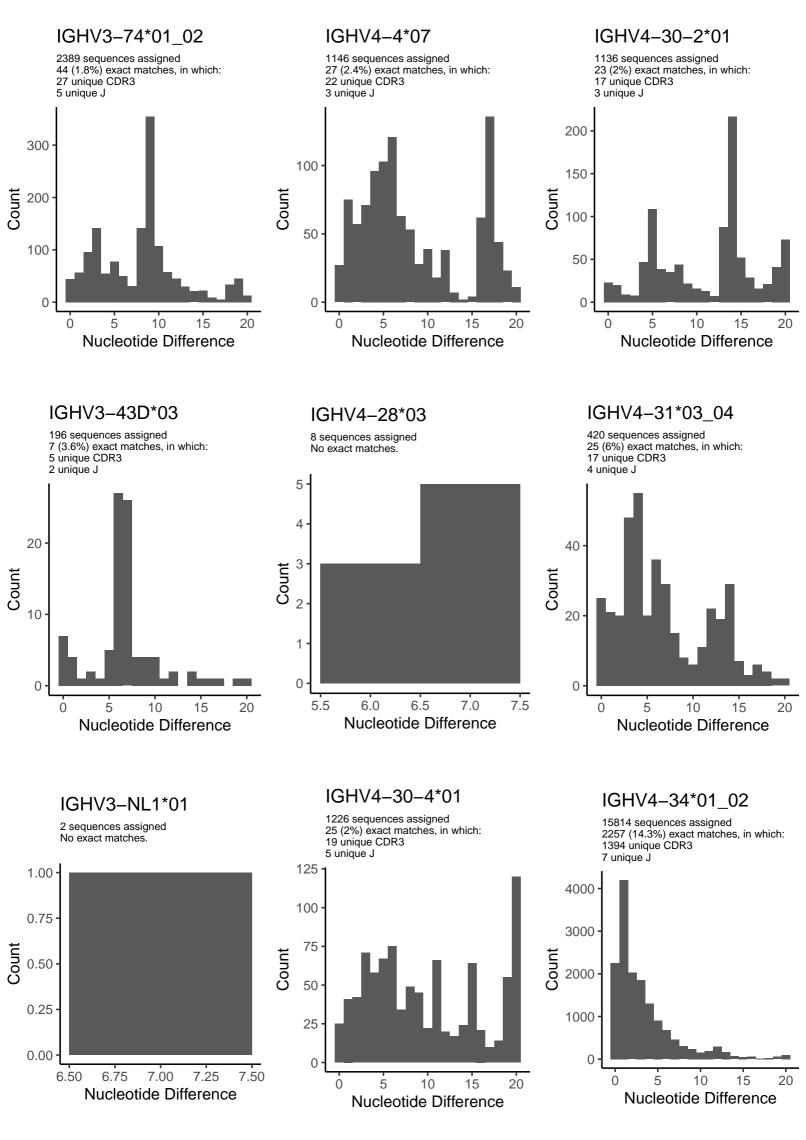


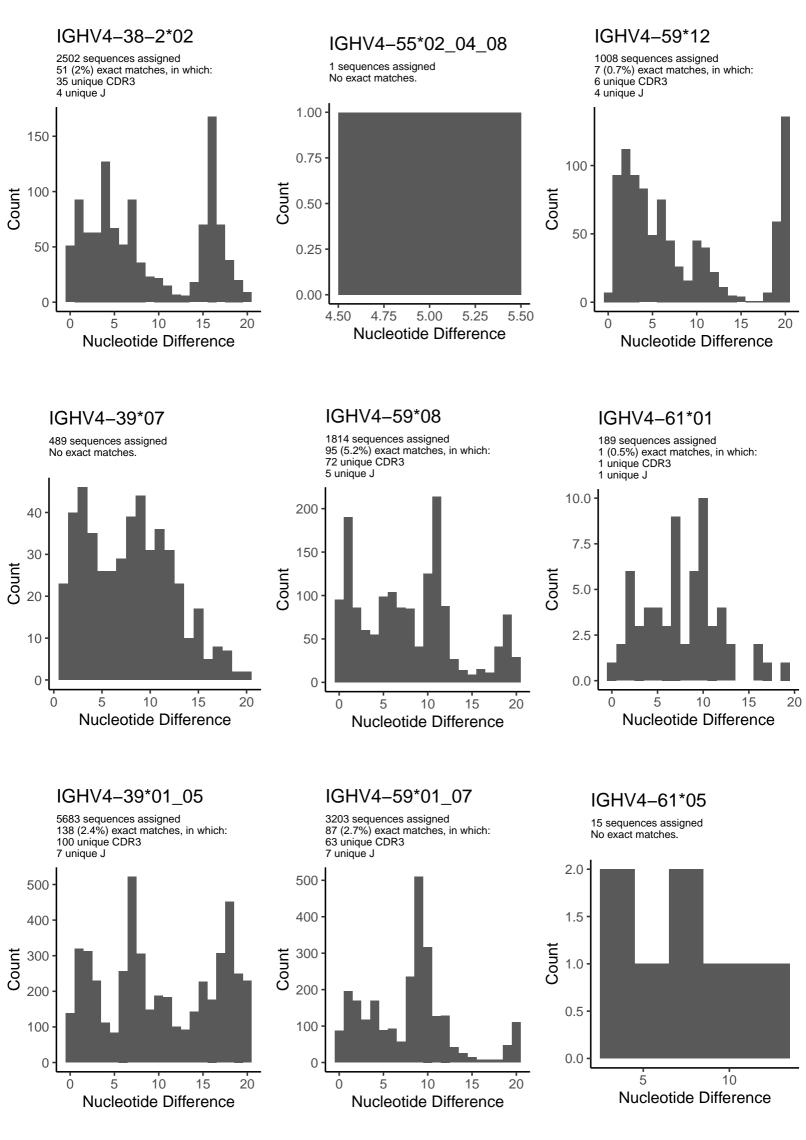












## IGHV4-61\*08 IGHV6-1\*01\_02 844 sequences assigned 4 (0.5%) exact matches, in which: 3 unique CDR3 2 unique J 38 sequences assigned No exact matches. 5 150 4 Count 2 100 50 1 0 0 10 15 5 20 10 15 0 **Nucleotide Difference Nucleotide Difference** IGHV5-10-1\*01\_03 IGHV7-4-1\*02 13 sequences assigned 1 (7.7%) exact matches, in which: 1 unique CDR3 1580 sequences assigned 53 (3.4%) exact matches, in which: 36 unique CDR3 1 unique J 4 unique J 3 200 150 2 Count Count 100 50 0 0

5

0

10

**Nucleotide Difference** 

15

20

## IGHV5-51\*01\_03

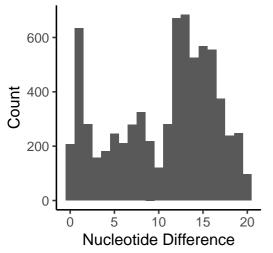
5

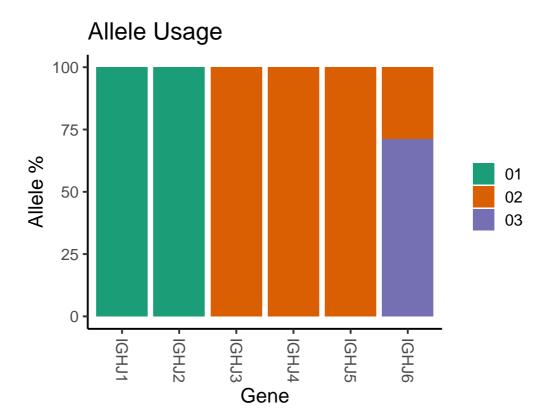
7990 sequences assigned 207 (2.6%) exact matches, in which: 104 unique CDR3 5 unique J

10

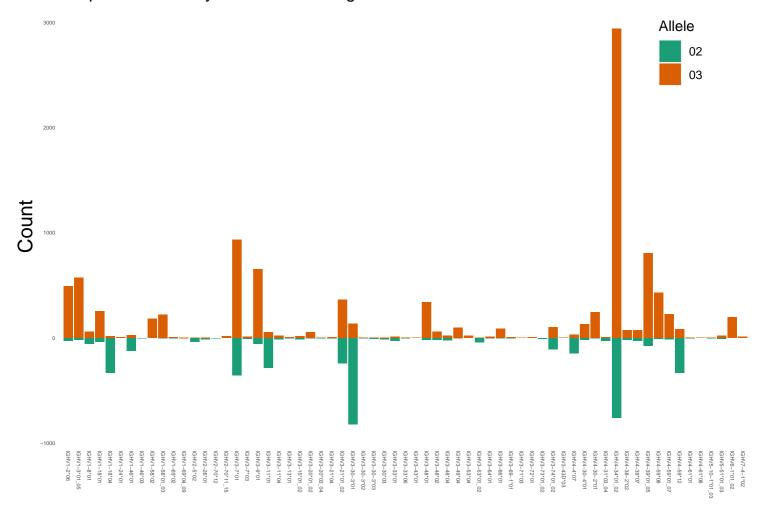
**Nucleotide Difference** 

15





## Sequence Count by IGHJ6 allele usage



Warning: IGHV4-31\*02, IGHV4-31\*03\_04 have identical germline sequences. Novel sequence(s) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV1-69\*04\_09\_G112A 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. Warning - no inferred sequences found. Novel sequence(s) IGHV1-69\*08\_C191T IGHV3-30\*03\_T288C IGHV3-30-3\*02\_G75C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59\*02 G88A 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) IGHV4-4\*02\_03\_C300T 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. Warning - no inferred sequences found. Novel sequence(s) IGHV4-59\*02\_G88A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV1-69\*08\_C191T IGHV3-11\*06\_T300C IGHV3-30\*03\_T288C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59\*02\_G88A 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. Warning - no inferred sequences found. Warning - no inferred sequences found. Novel sequence(s) IGHV3-30\*03\_T288C IGHV3-30-3\*01\_T288C IGHV4-59\*02\_688A IGHV5-10-1\*01\_03\_T258C IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Warning – no inferred sequences found. Novel sequence(s) IGHV3-48\*04\_A193T\_C198T\_A200C\_C201T\_T210A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59\*02\_G88A 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) IGHV3-33\*01\_C288T IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV3-33\*01\_T105C\_A173T\_T192G\_C288T are not listed in the genotype and will be ignored. Novel sequence(s) IGHV3-30\*04 T288C IGHV3-33\*01 G75C IGHV4-30-2\*03 T288C IGHV4-59\*02 G88A are not listed in the genotype and will be ignored. Novel sequence(s) IGHV3-11\*06\_T300C 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) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored. Novel sequence(s) IGHV4–59\*02\_G88A 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) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.