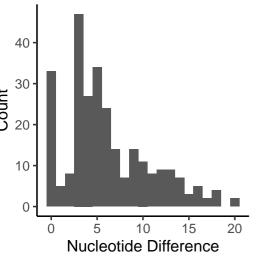


IGHV4-31*03_04 IGHV4-59*01_07 IGHV4-38-2*02 535 sequences assigned 64 (12%) exact matches, in which: 1335 sequences assigned 75 (5.6%) exact matches, in which: 57 unique CDR3 10 sequences assigned No exact matches. 48 unique CDR3 5 unique J 5 unique J 2.0 150 60 1.5 100 Count Count 1.0 50 20 0.5 0.0 0 0 10 15 20 5 10 15 20 0 0 10 15 20 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV4-61*02 IGHV4-39*01 05 IGHV4-34*01_02 795 sequences assigned 58 (7.3%) exact matches, in which: 622 sequences assigned 65 (10.5%) exact matches, in which: 1002 sequences assigned 51 (5.1%) exact matches, in which: 47 unique CDR3 55 unique CDR3 38 ùniqué CDR3 4 unique J 6 unique J 5 unique J 150 60 75 Count 100 Count Count 40 50 50 25 20 0 0 0 10 15 20 0 5 10 15 20 10 15 20 0 5 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV5-10-1*01_03 IGHV4-59*08 IGHV4-38-2*01 40 sequences assigned 4 (10%) exact matches, in which: 554 sequences assigned 2 sequences assigned 31 (5.6%) exact matches, in which: 4 unique CDR3 No exact matches. 22 unique CDR3 3 unique J 5 unique J 1.00 60 0.75 6 0.50 Count 40 0.25 20 0.00 0 0 3.75 4.00 4.25 4.50 3.50 0 5 10 15 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

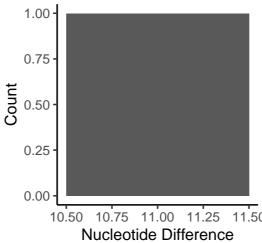
IGHV5-51*01_03

274 sequences assigned 33 (12%) exact matches, in which: 32 unique CDR3 5 unique J



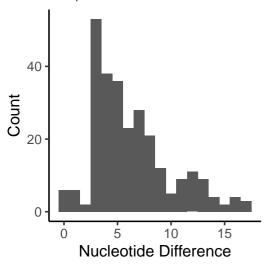
IGHV7-4-1*02

1 sequences assigned No exact matches.



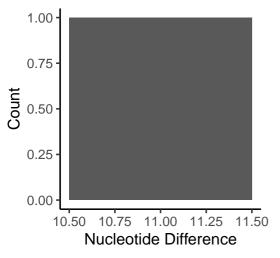
IGHV6-1*01_02

276 sequences assigned 6 (2.2%) exact matches, in which: 5 unique CDR3 3 unique J



IGHV7-4-1*01

1 sequences assigned No exact matches.





Novel sequence(s) IGHV4-59*02_G88A 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.

Warning – no inferred sequences found.

Novel sequence(s) IGHV3-11*06_T300C IGHV4-38-2*02_A70G IGHV4-39*02_C258G IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4-39*02_C258G IGHV4-59*02_G88A 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.

Warning – no inferred sequences found.

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) IGHV4–59*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.