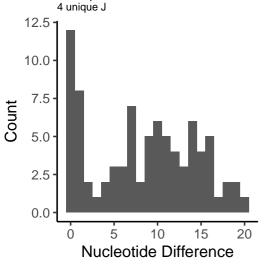


IGHV4/OR15-8*02 IGHV4-61*02 IGHV4-59*01_07 572 sequences assigned 77697 sequences assigned 4057 (5.2%) exact matches, in which: 42180 sequences assigned 4986 (11.8%) exact matches, in which: 2510 unique CDR3 No exact matches. 1965 uniqué CDR3 7 unique J 7 unique J 3 10000 8000 7500 6000 Count Count 5000 4000 2500 2000 0 0 10 15 20 0 5 0 10 15 20 14 16 18 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV5-51*04 IGHV4-59*11 IGHV1/OR15-2*02_03 164 sequences assigned 18 (11%) exact matches, in which: 5101 sequences assigned 19 (0.4%) exact matches, in which: 8 sequences assigned 17 unique CDR3 No exact matches. 16 uniqué CDR3 4 unique J 4 unique J 1.00 15 150 0.75 Count Count 10 0.50 100 0.25 5 50 0.00 0 0 20.25 19.50 19.75 20.00 20.50 10 15 20 5 10 15 20 0 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV5-51*06 IGHV4/OR15-8*01 IGHV4-59*12 73 sequences assigned 27237 sequences assigned 102 (0.4%) exact matches, in which: 430 sequences assigned 3 (4.1%) exact matches, in which: No exact matches. 3 unique CDR3 88 unique CDR3 3 unique J 6 unique J 2000 20 1500 Count 1000 10 2 500 0 0 0 10 15 20 5 20 10 15 10 0 5 15 20 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference

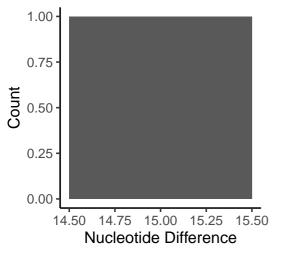
IGHV5-51*07

98 sequences assigned 12 (12.2%) exact matches, in which: 12 unique CDR3



IGHV5-78*01

1 sequences assigned No exact matches.



IGHV6-1*01_02

8073 sequences assigned 542 (6.7%) exact matches, in which: 317 unique CDR3 5 unique J

