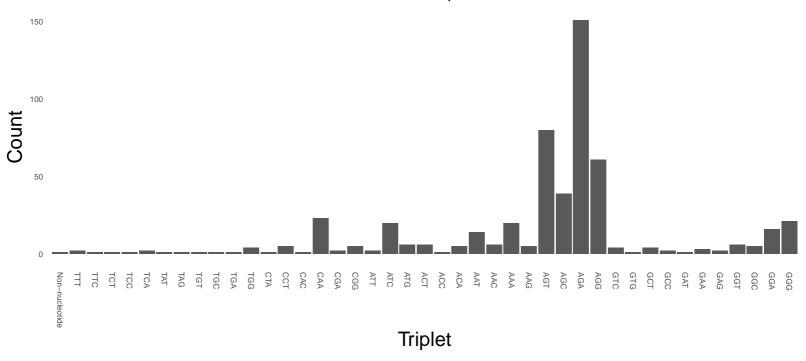
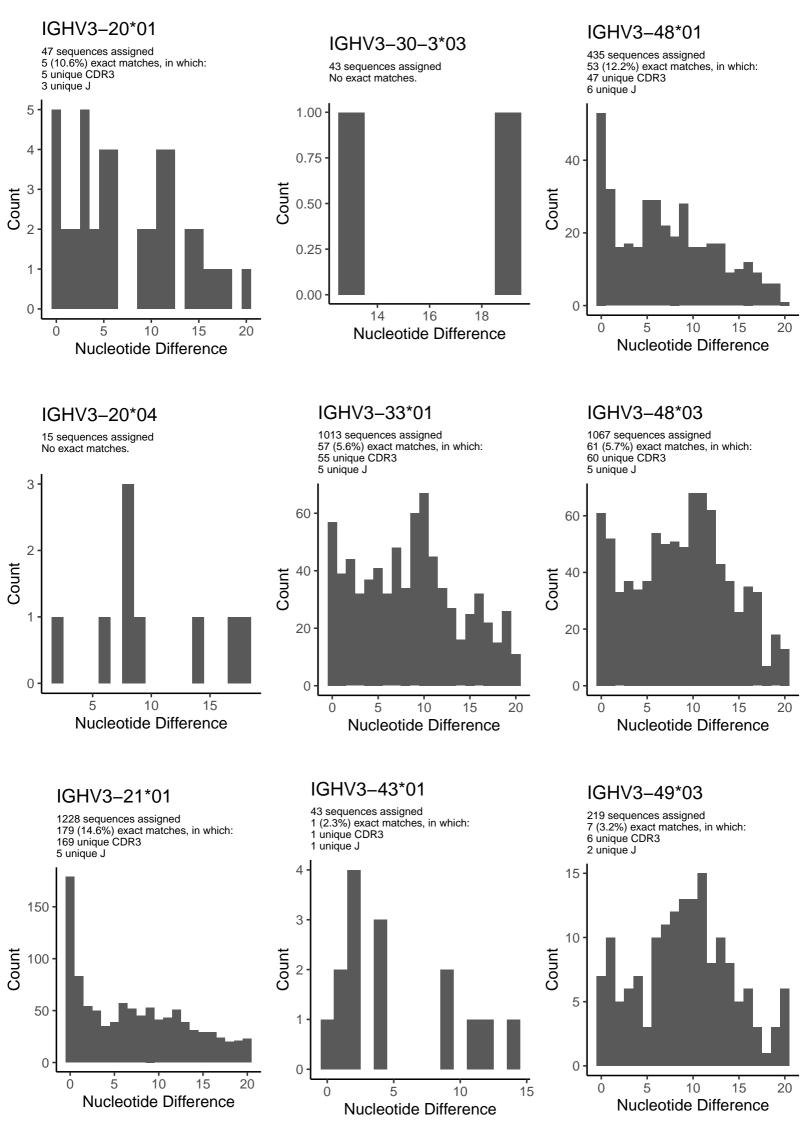


IGHV4-38-2\*02\_A70G- Final 3 nucleotides as a triplet

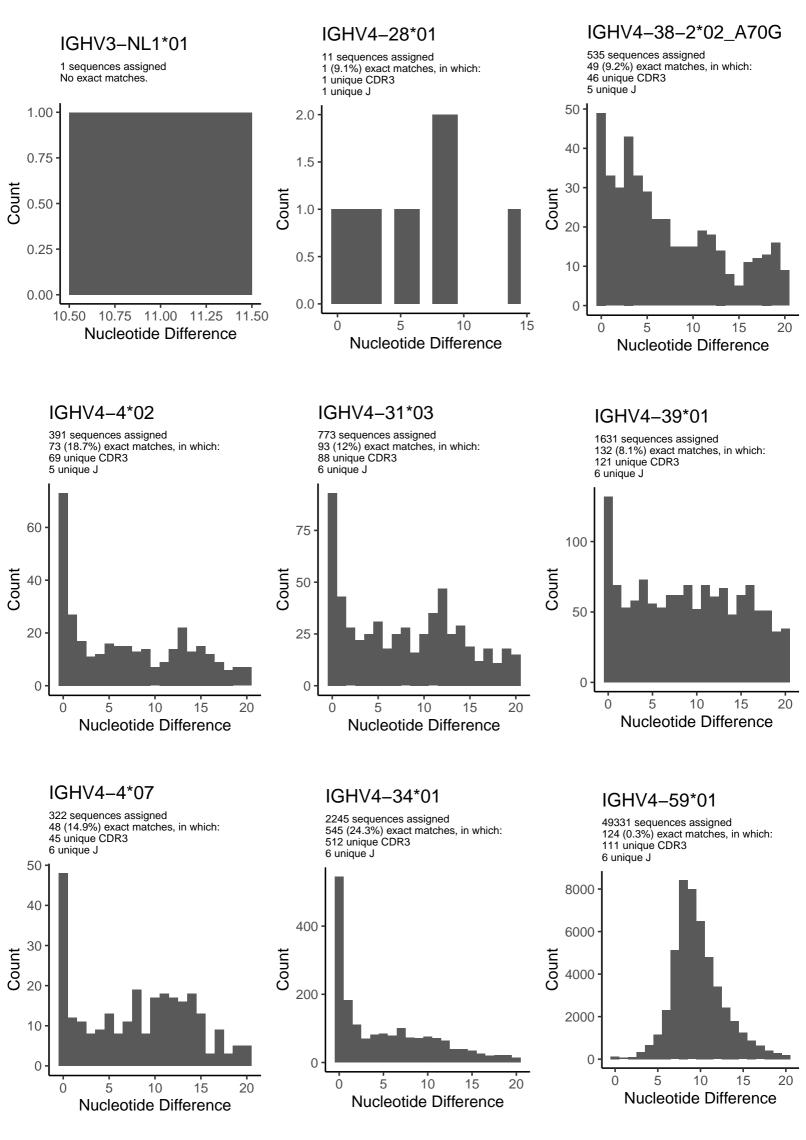


#### IGHV1-2\*02 IGHV1-8\*01 IGHV1-24\*01 639 sequences assigned 78 (12.2%) exact matches, in which: 621 sequences assigned 108 (17.4%) exact matches, in which: 92 sequences assigned 17 (18.5%) exact matches, in which: 15 unique CDR3 70 unique CDR3 100 unique CDR3 4 unique J 6 unique J 3 unique J 80 90 60 Count Count 10 60 5 30 20 0 0 0 10 10 15 20 0 15 0 5 0 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-18\*01 IGHV1-45\*02 IGHV1-2\*04 382 sequences assigned 61 (16%) exact matches, in which: 4 sequences assigned 90 sequences assigned 2 (50%) exact matches, in which: 10 (11.1%) exact matches, in which: 61 unique CDR3 2 unique CDR3 10 unique CDR3 5 unique J 2 unique J 4 unique J 2.0 60 10.0 1.5 7.5 40 Count Count Count 5.0 1.0 20 2.5 0.5 0.0 0.0 0 20 10 15 5 0 2 10 15 20 0 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-3\*01 IGHV1-18\*04 IGHV1-46\*01 504 sequences assigned 337 sequences assigned 595 sequences assigned 52 (10.3%) exact matches, in which: 51 (15.1%) exact matches, in which: 73 (12.3%) exact matches, in which: 45 unique CDR3 49 unique CDR3 62 unique CDR3 5 unique J 5 unique J 5 unique J 50 50 60 40 40 30 Count 30 Count 40 20 20 20 10 10 0 0 0 0 10 15 20 0 5 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

### IGHV1-58\*01 IGHV2-70\*01 IGHV3-11\*01 92 sequences assigned 651 sequences assigned 43 (6.6%) exact matches, in which: 122 sequences assigned 21 (17.2%) exact matches, in which: 11 (12%) exact matches, in which: 10 unique CDR3 21 unique CDR3 4 unique J 36 unique CDR3 3 unique J 5 unique J 50 20 9 40 15 Count Count 30 10 20 3 5 10 0 0 0 10 5 10 15 20 0 15 0 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-5\*01 IGHV3-13\*01 IGHV3-7\*01 652 sequences assigned 112 (17.2%) exact matches, in which: 179 sequences assigned 12 (6.7%) exact matches, in which: 1625 sequences assigned 43 (2.6%) exact matches, in which: 105 unique CDR3 12 unique CDR3 43 ùniqué CDR3 5 unique J 3 unique J 4 unique J 100 90 75 Count Count Count 60 50 5 30 25 0 0 0 5 10 15 20 0 0 10 15 20 5 10 15 20 5 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-26\*01 IGHV3-15\*01 IGHV3-9\*01 165 sequences assigned 1337 sequences assigned 1236 sequences assigned 77 (5.8%) exact matches, in which: 46 (27.9%) exact matches, in which: 116 (9.4%) exact matches, in which: 43 unique CDR3 75 unique CDR3 109 unique CDR3 5 unique J 5 unique J 5 unique J 80 120 40 60 90 30 Count Count 60 40 30 20 10 0 0 0 5 10 15 20 0 0 5 10 15 20 0 5 10 15 20 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference

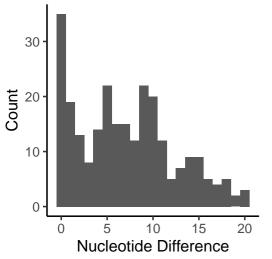


#### IGHV3-49\*04 IGHV3-73\*02 IGHV3-64\*02 264 sequences assigned 239 sequences assigned 14 sequences assigned 18 (6.8%) exact matches, in which: 17 unique CDR3 12 (5%) exact matches, in which: 1 (7.1%) exact matches, in which: 1 ùniqué CDR3 12 unique CDR3 2 unique J 1 unique J 4 unique J 2.0 20 15 1.5 15 Count Count 10 1.0 10 0.5 5 5 0 0.0 0 10 20 15 0 10 15 20 0 10 5 5 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-53\*01 IGHV3-74\*01 IGHV3-66\*03 362 sequences assigned 684 sequences assigned 31 (8.6%) exact matches, in which: 28 unique CDR3 1 sequences assigned 26 (3.8%) exact matches, in which: 25 unique CDR3 No exact matches. 5 unique J 5 unique J 1.00 30 40 0.75 30 20 Count Count 0.50 20 10 0.25 10 0.00 0 0 1.25 1.50 0.50 0.75 1.00 10 15 20 10 15 20 0 5 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-43D\*04 IGHV3-53\*02 IGHV3-72\*01 53 sequences assigned 189 sequences assigned 202 sequences assigned 2 (3.8%) exact matches, in which: 2 unique CDR3 25 (12.4%) exact matches, in which: 5 (2.6%) exact matches, in which: 23 unique CDR3 5 unique CDR3 2 unique J 5 unique J 4 unique J 25 15 9 20 15 10 Count Count 6 10 5 3 5 0 0 0 0 10 15 20 0 5 10 15 20 10 5 15 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference



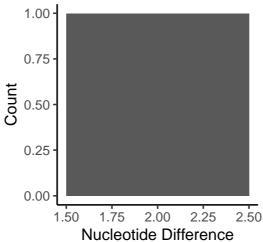
# IGHV4-61\*01

340 sequences assigned 35 (10.3%) exact matches, in which: 32 unique CDR3 6 unique J



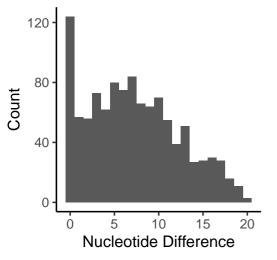
### IGHV7-4-1\*01

1 sequences assigned No exact matches.



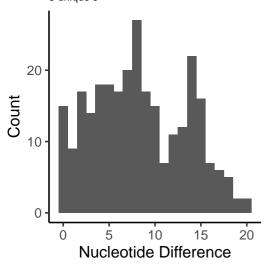
# IGHV5-51\*01

1174 sequences assigned 124 (10.6%) exact matches, in which: 115 unique CDR3 6 unique J

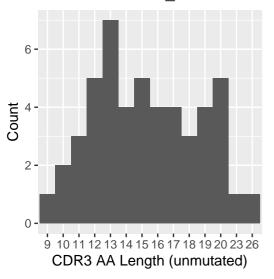


### IGHV6-1\*01

285 sequences assigned 15 (5.3%) exact matches, in which: 12 unique CDR3 3 unique J



IGHV4-38-2\*02\_A70G





Warning	-	no	inferred	sequences	found.
Warning	-	no	inferred	sequences	found.
Warning	-	no	inferred	sequences	found.
Warning	-	no	inferred	sequences	found.
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Warning	_	no	inferred	sequences	found.
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Warning	_	no	inferred	sequences	found.
				sequences	
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Warning	-	no	inferred	sequences	found.
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Warning	-	no	inferred	sequences	found.
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