

## IGHV1-69\*01\_12\_13 IGHV2-5\*02 IGHV2-70\*11\_15 275 sequences assigned 45 (16.4%) exact matches, in which: 546 sequences assigned 45 (8.2%) exact matches, in which: 81 sequences assigned 10 (12.3%) exact matches, in which: 44 unique CDR3 42 unique CDR3 9 unique CDR3 4 unique J 5 unique J 2 unique J 12.5 40 60 10.0 30 7.5 Count Count 40 5.0 20 10 2.5 0.0 0 0 5 10 15 10 0 10 15 20 0 15 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV1-69\*04\_09 IGHV2-26\*01 IGHV2-70D\*04 134 sequences assigned 8 (6%) exact matches, in which: 7 unique CDR3 62 sequences assigned 11 (17.7%) exact matches, in which: 10 unique CDR3 1 sequences assigned No exact matches. 2 unique J 3 unique J 1.00 9 6 0.75 Count Count 0.50 0.25 3 2 0.00 0 0 7.25 7.50 6.50 6.75 7.00 10 0 5 10 15 20 0 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV2-70\*01 IGHV2-5\*01 IGHV3-7\*01 55 sequences assigned 110 sequences assigned 3136 sequences assigned 5 (9.1%) exact matches, in which: 14 (12.7%) exact matches, in which: 132 (4.2%) exact matches, in which: 5 unique CDR3 13 unique CDR3 70 unique CDR3 2 unique J 3 unique J 5 unique J 200 150 10 3 Count 100 2 5 50 1

0

0

10

Nucleotide Difference

15

20

0

0

10

**Nucleotide Difference** 

15

20

0

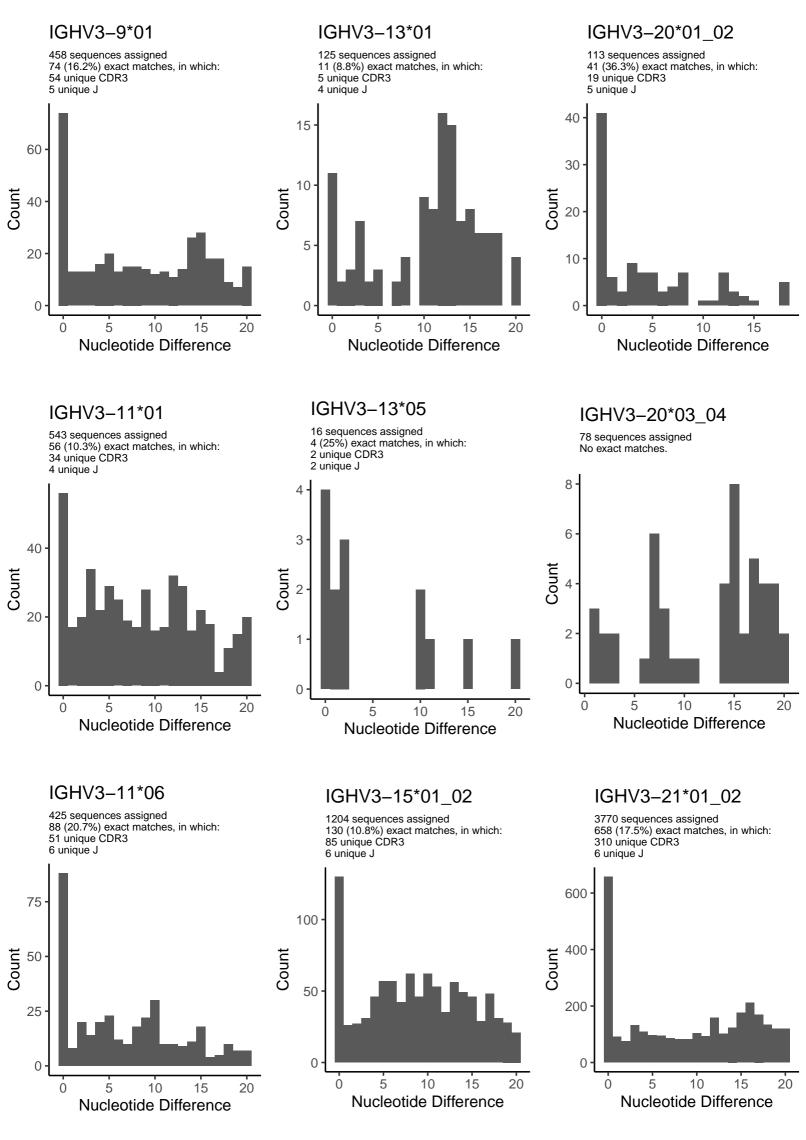
10

Nucleotide Difference

5

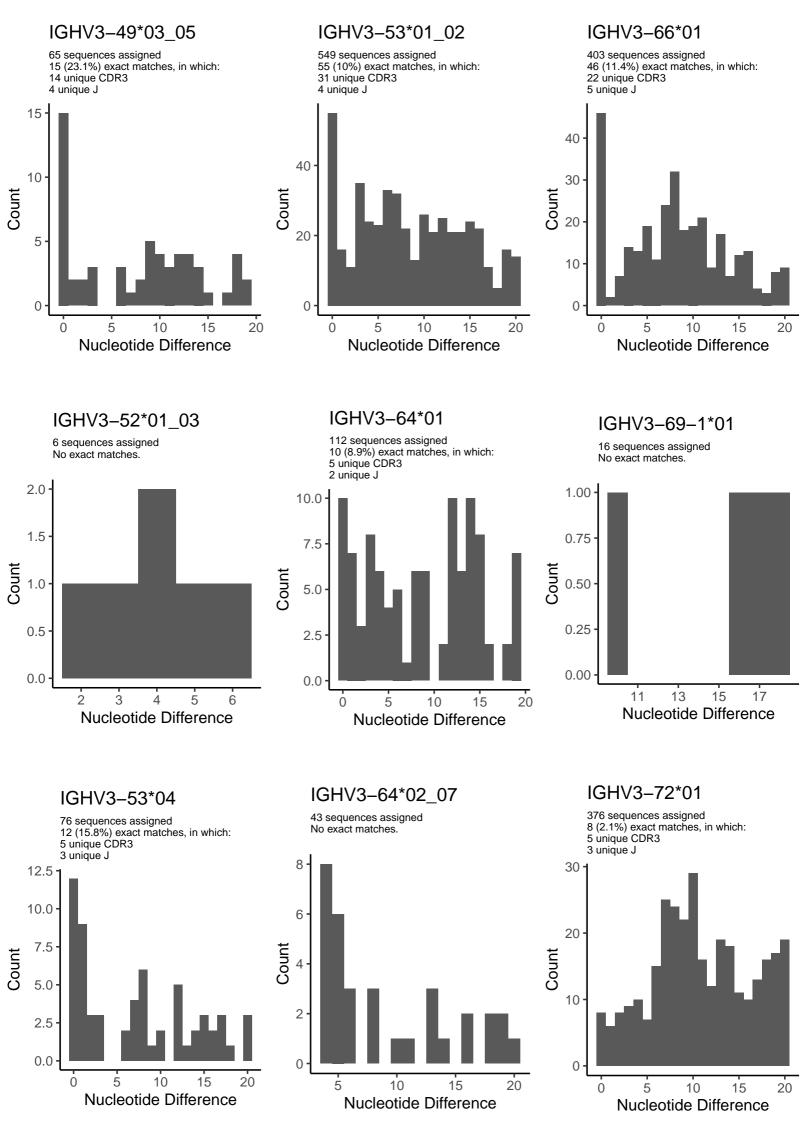
15

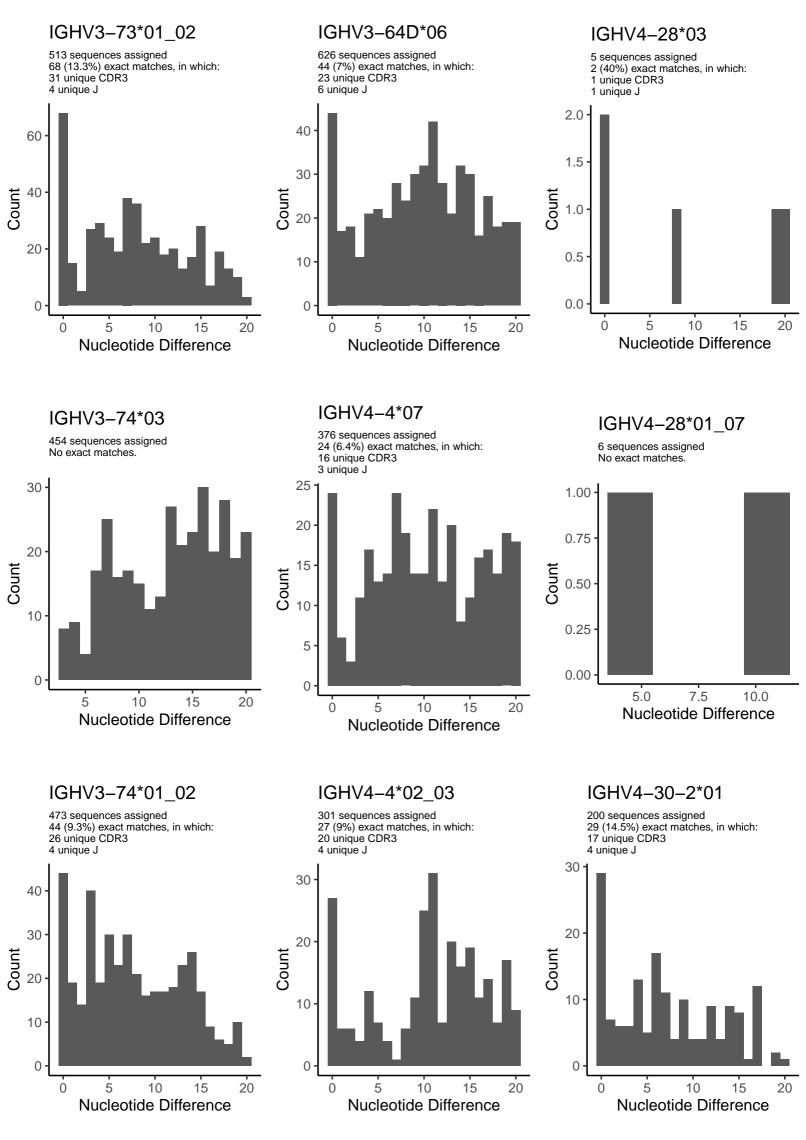
20

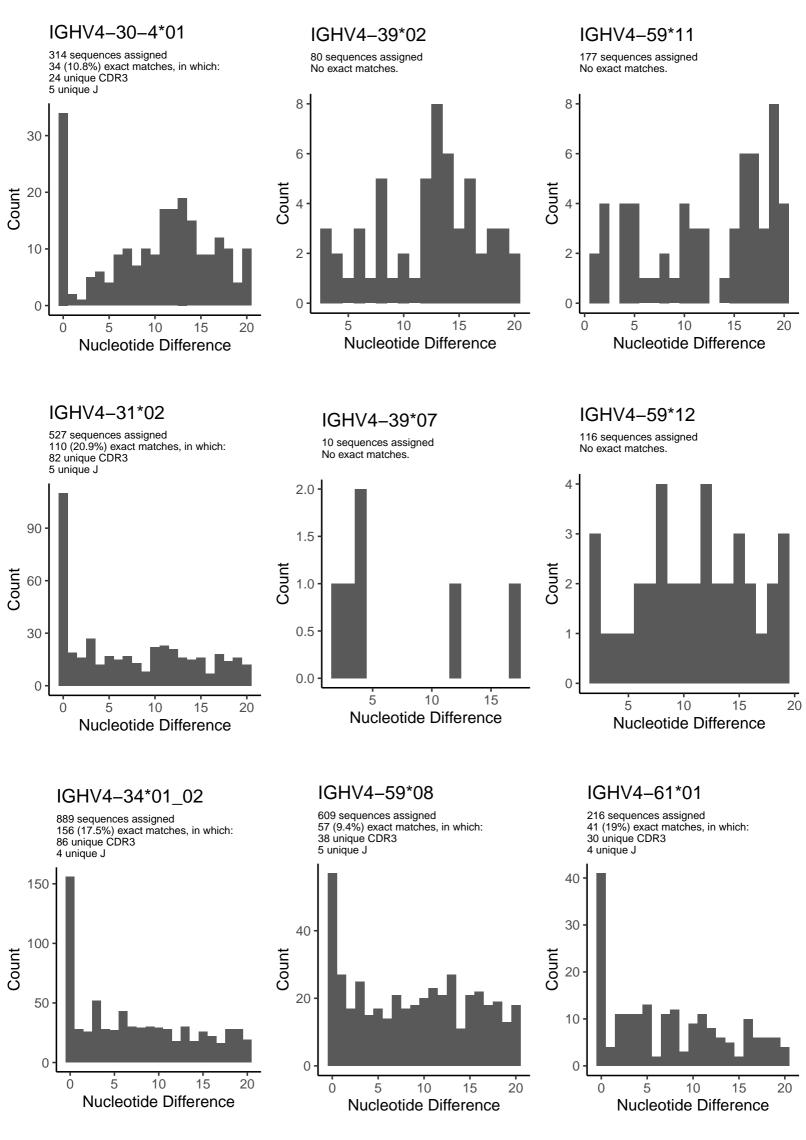


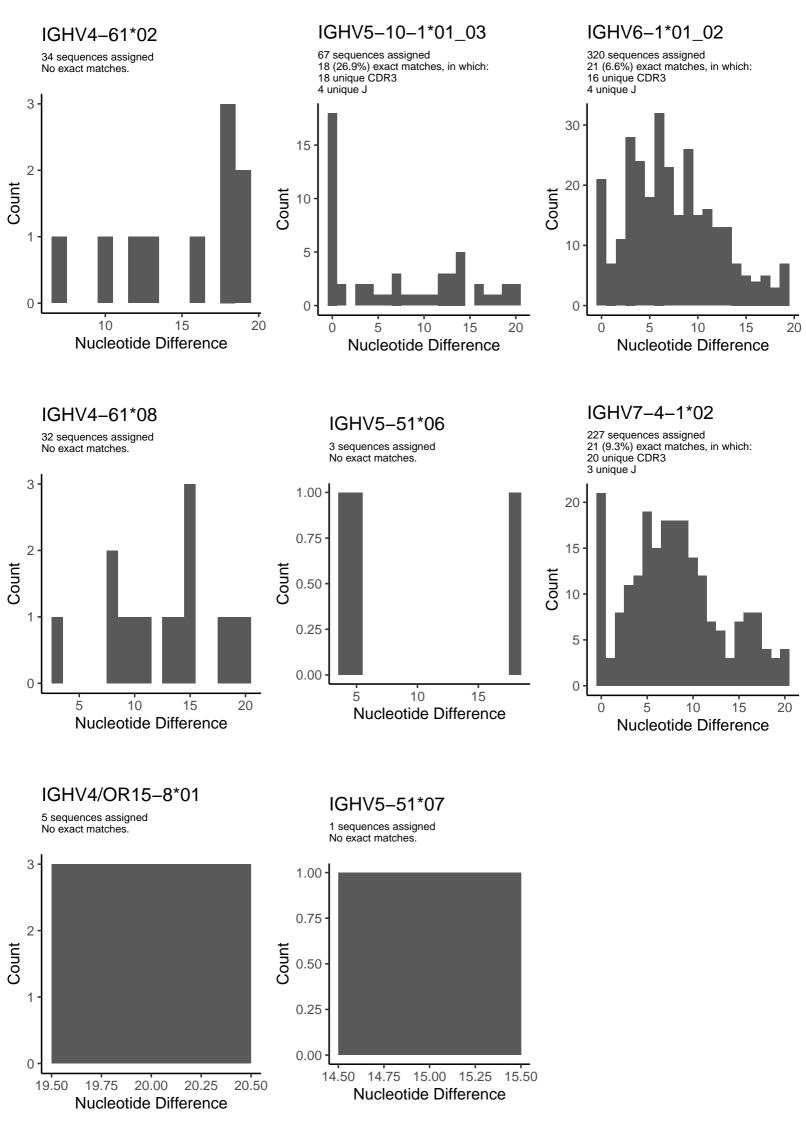
## IGHV3-23\*01\_04 IGHV3-33\*01 IGHV3-48\*02 965 sequences assigned 122 (12.6%) exact matches, in which: 53 unique CDR3 9856 sequences assigned 683 (6.9%) exact matches, in which: 366 unique CDR3 1274 sequences assigned 239 (18.8%) exact matches, in which: 141 unique CDR3 6 unique J 5 unique J 4 unique J 250 125 -600 200 100 150 75 400 Count Count 100 50 200 50 25 0 0 0 5 10 15 20 10 15 20 5 10 15 20 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-43\*01 IGHV3-48\*03 IGHV3-30-3\*01 109 sequences assigned 16 (14.7%) exact matches, in which: 640 sequences assigned 54 (8.4%) exact matches, in which: 859 sequences assigned 169 (19.7%) exact matches, in which: 28 unique CDR3 8 unique CDR3 117 unique CDR3 4 unique J 4 unique J 6 unique J 15 150 100 Count Count Count 20 5 50 0 0 0 10 15 20 0 5 15 20 10 15 20 0 5 10 0 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV3-49\*04 IGHV3-30\*03 IGHV3-43\*02 119 sequences assigned 7 (5.9%) exact matches, in which: 133 sequences assigned 285 sequences assigned 5 (3.8%) exact matches, in which: 22 (7.7%) exact matches, in which: 6 unique CDR3 4 unique CDR3 15 unique CDR3 3 unique J 2 unique J 4 unique J 20 9 10 15 Count Count Count 10 5 5 0 0 0 10 15 20 0 5 10 15 20 20 5 10 Nucleotide Difference **Nucleotide Difference**

**Nucleotide Difference** 











Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.  Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		
Warning – no inferred sequences found.		