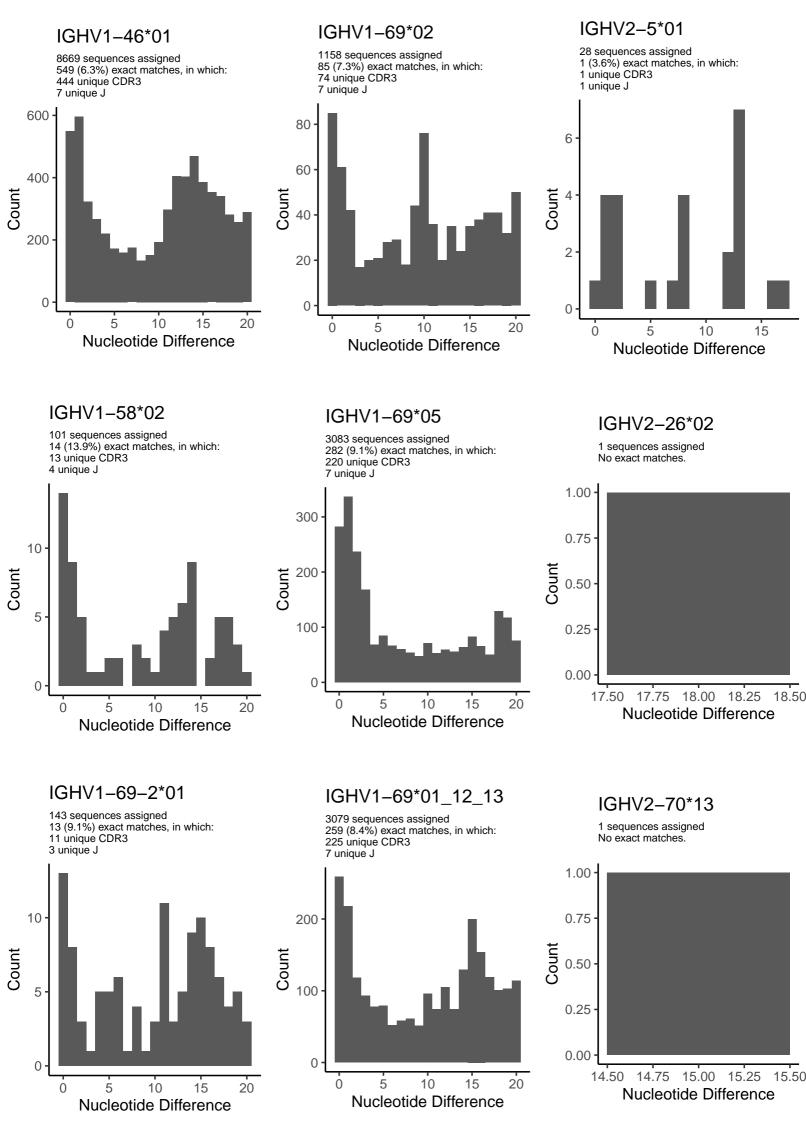
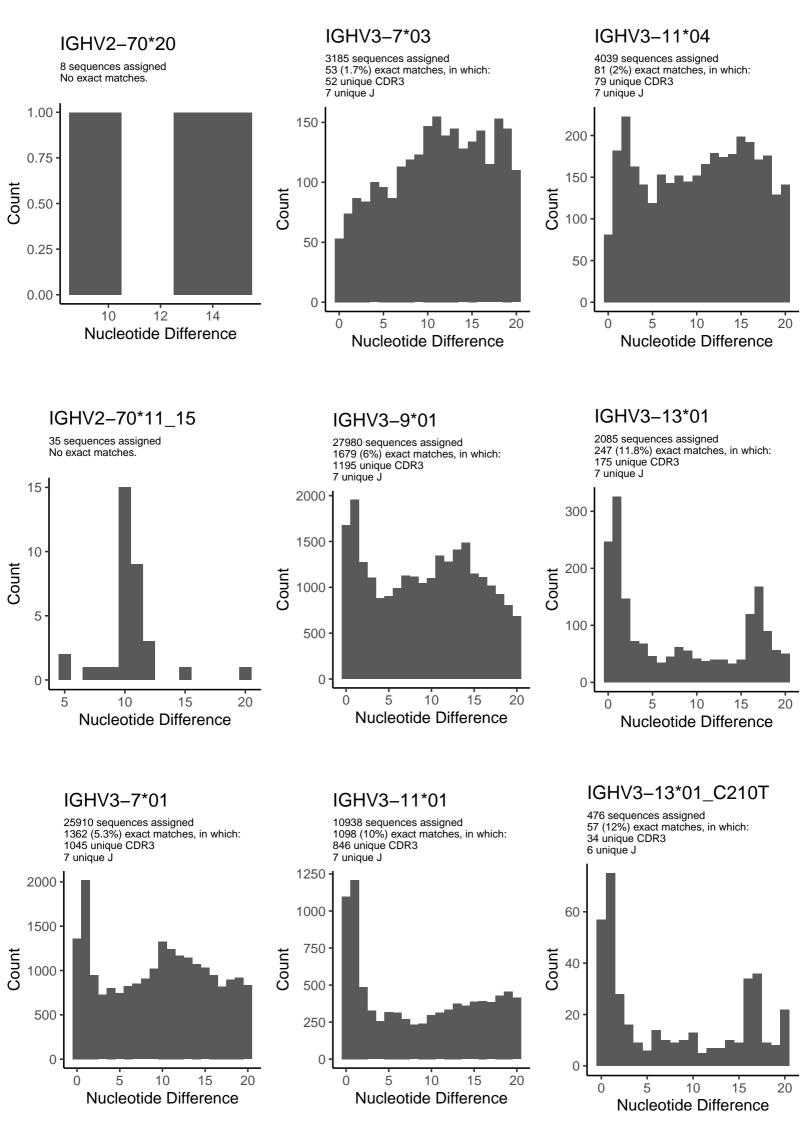
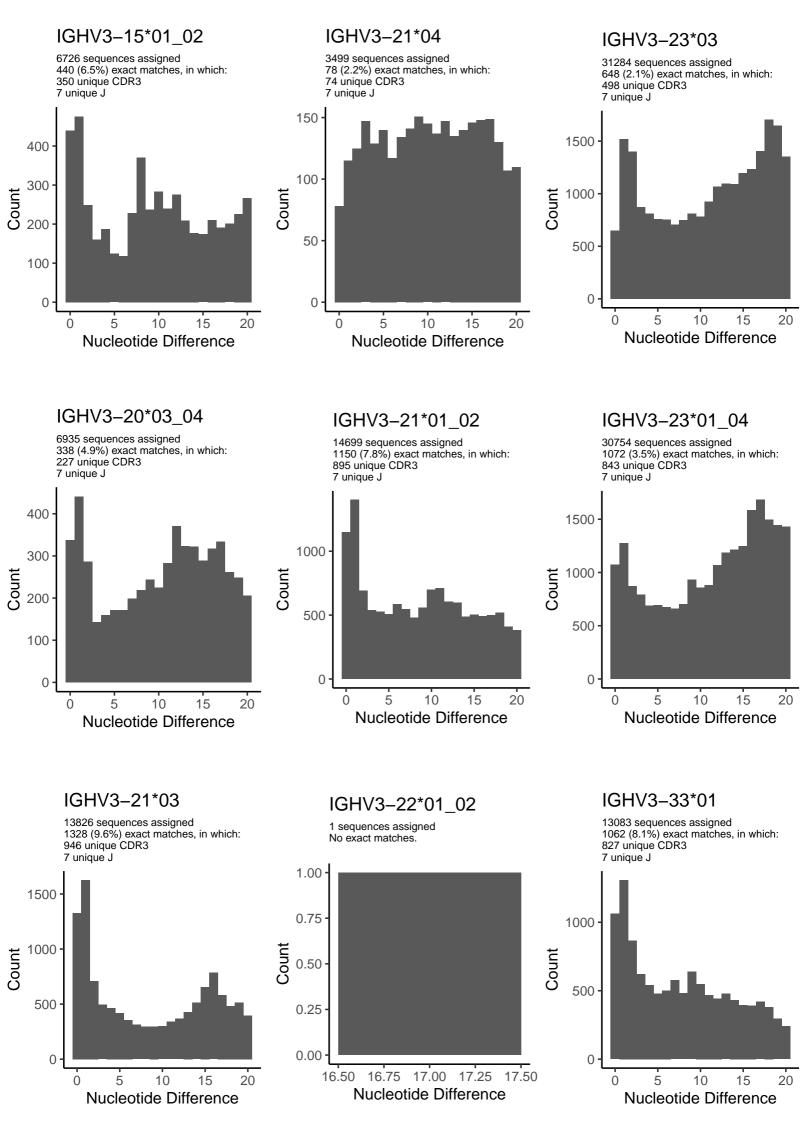
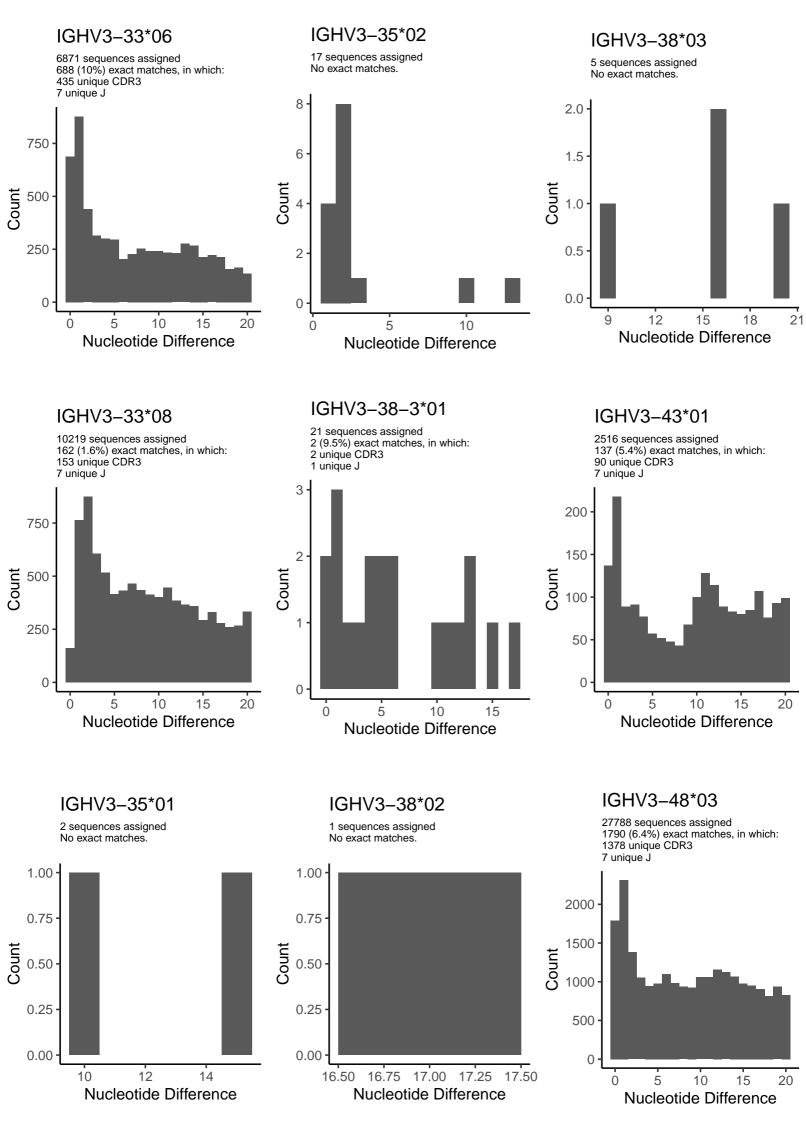
## IGHV1-3\*01\_05 IGHV1-2\*02 IGHV1-18\*01 394 sequences assigned 49 (12.4%) exact matches, in which: 5580 sequences assigned 36478 sequences assigned 2081 (5.7%) exact matches, in which: 361 (6.5%) exact matches, in which: 41 unique CDR3 297 unique CDR3 1609 unique CDR3 6 unique J 7 unique J 7 unique J 3000 300 40 2000 30 Count Count Count 200 20 1000 100 10 0 0 0 0 5 10 15 15 5 10 20 10 15 0 5 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV1-3\*01\_05\_C134A IGHV1-24\*01 IGHV1-2\*06 276 sequences assigned 49 (17.8%) exact matches, in which: 202 sequences assigned 25 (12.4%) exact matches, in which: 5041 sequences assigned 373 (7.4%) exact matches, in which: 45 unique CDR3 25 unique CDR3 303 unique CDR3 5 unique J 4 unique J 7 unique J 400 50 25 40 20 300 30 15 Count Count 200 20 10 100 10 5 0 0 0 10 15 20 0 5 10 15 20 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV1-45\*02 IGHV1-8\*01 IGHV1-3\*04 17 sequences assigned 10917 sequences assigned 1194 (10.9%) exact matches, in which: 96 sequences assigned 1 (5.9%) exact matches, in which: No exact matches. 1 uniqué CDR3 871 unique CDR3 1 unique J 7 unique J 10.0 2.0 1500 7.5 1.5 1000 5.0 1.0 500 2.5 0.5 0 0.0 10 15 20 10 15 20 10 15 5 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

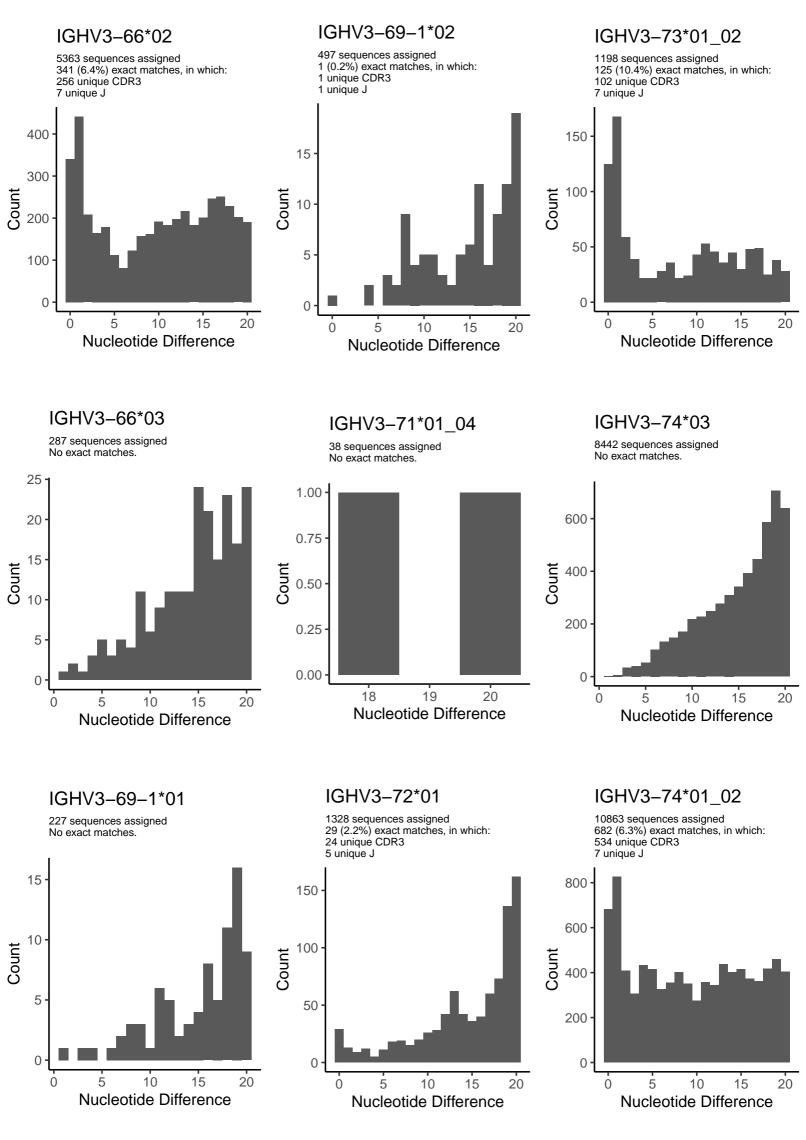


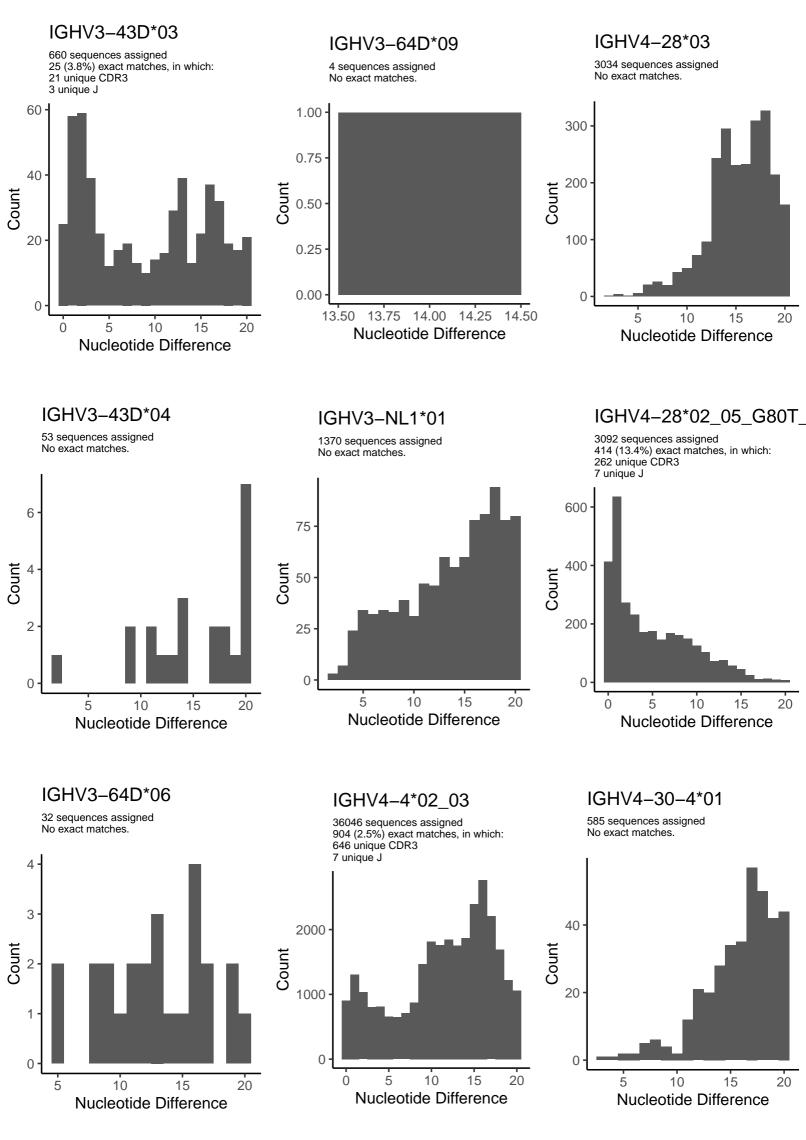


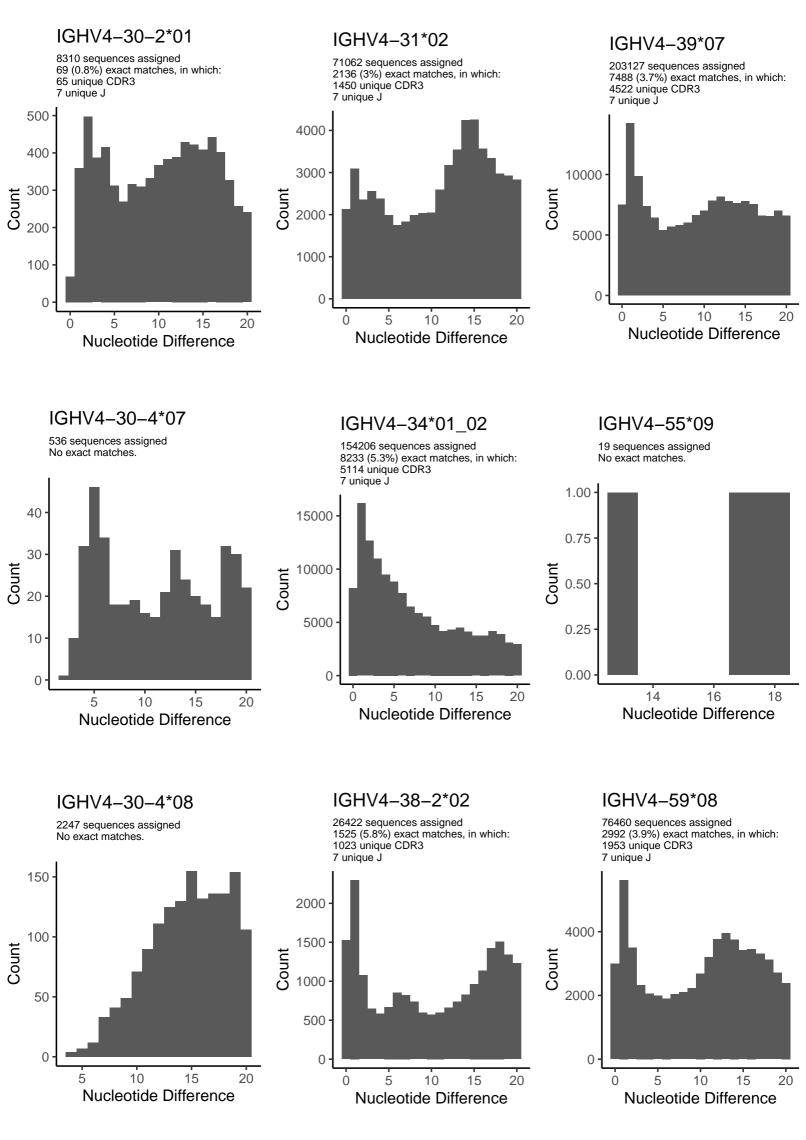


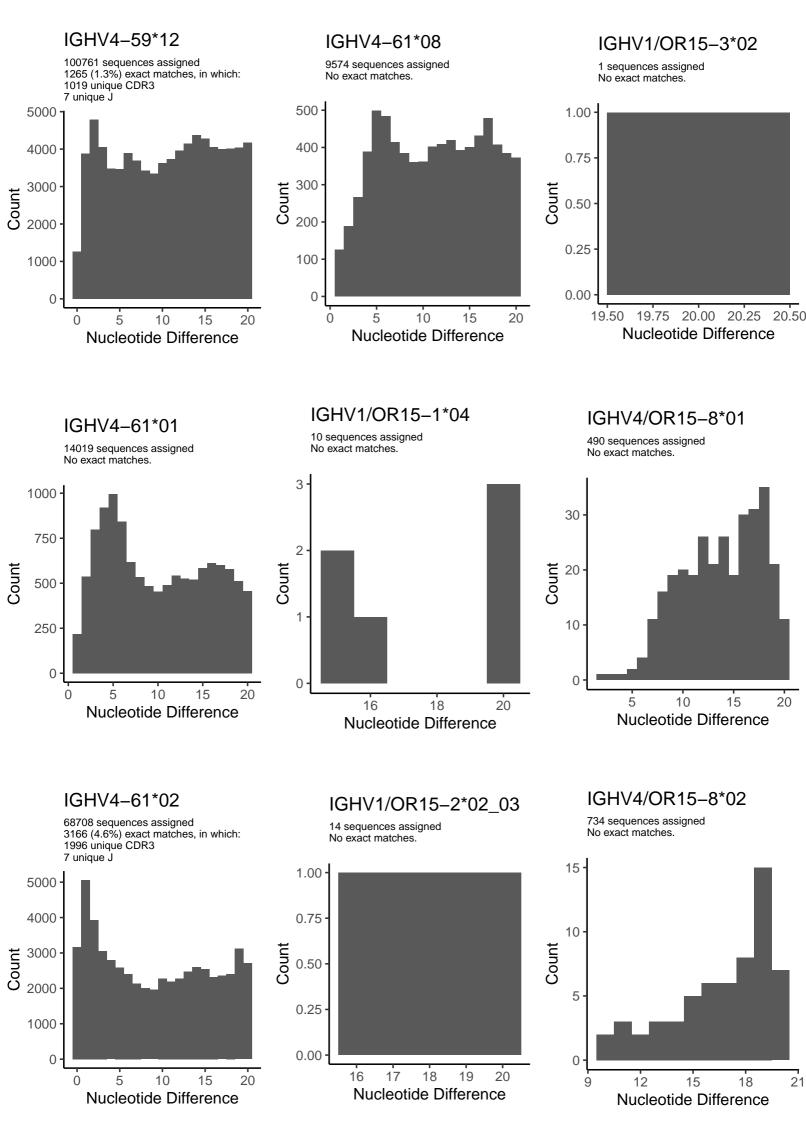


## IGHV3-49\*04 IGHV3-53\*04 IGHV3-64\*01 2064 sequences assigned 4909 sequences assigned 3654 sequences assigned 528 (14.4%) exact matches, in which: 180 (8.7%) exact matches, in which: 221 (4.5%) exact matches, in which: 362 unique CDR3 165 unique CDR3 130 unique CDR3 7 unique J 7 unique J 7 unique J 200 800 200 150 600 Count Count 100 400 100 200 50 0 0 0 20 5 10 15 20 5 10 15 20 5 10 15 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-64\*02 07 IGHV3-49\*03\_05 IGHV3-53\*05 529 sequences assigned 4 (0.8%) exact matches, in which: 2248 sequences assigned 138 (6.1%) exact matches, in which: 14821 sequences assigned 1175 (7.9%) exact matches, in which: 3 unique CDR3 99 unique CDR3 862 unique CDR3 3 unique J 6 unique J 7 unique J 1500 30 150 Count Count 1000 Count 100 20 500 50 10 0 0 0 0 10 20 10 15 20 0 5 10 15 20 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-53\*01\_02 IGHV3-66\*01 IGHV3-52\*01\_03 4167 sequences assigned 11203 sequences assigned 693 (6.2%) exact matches, in which: 6 sequences assigned 15 (0.4%) exact matches, in which: No exact matches. 15 ùniqué CDR3 512 unique CDR3 4 unique J 7 unique J 1.00 1000 200 0.75 750 150 Conu 0.50 Count 500 100 0.25 250 50 0.00 0 0 10 15 15 10 20 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**



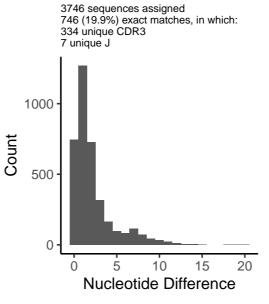




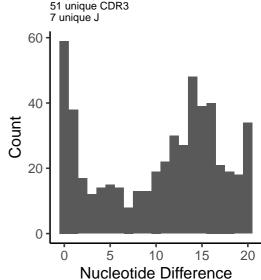


## 5893 sequences assigned 8 (0.1%) exact matches, in which: 8 unique CDR3 4 unique J

IGHV5-51\*07



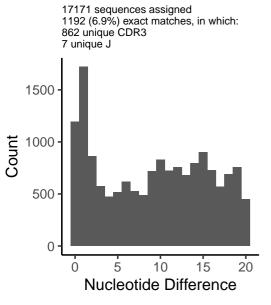
IGHV6-1\*01\_02\_A163C



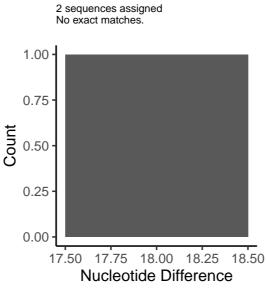
IGHV7-4-1\*02

668 sequences assigned

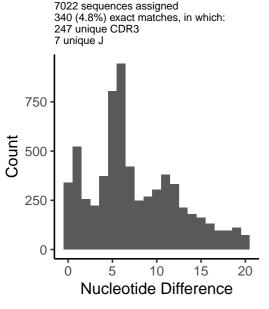
59 (8.8%) exact matches, in which:



IGHV5-51\*01\_03



IGHV3/OR16-8\*01



IGHV6-1\*01\_02

