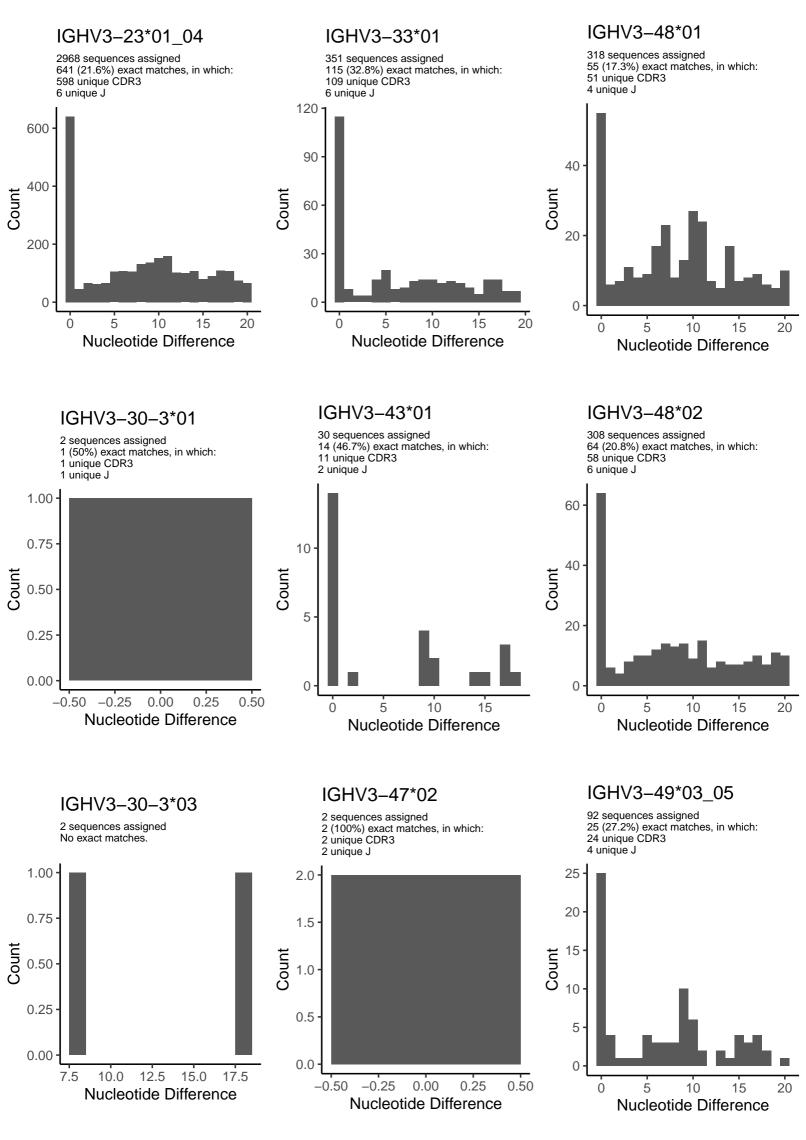
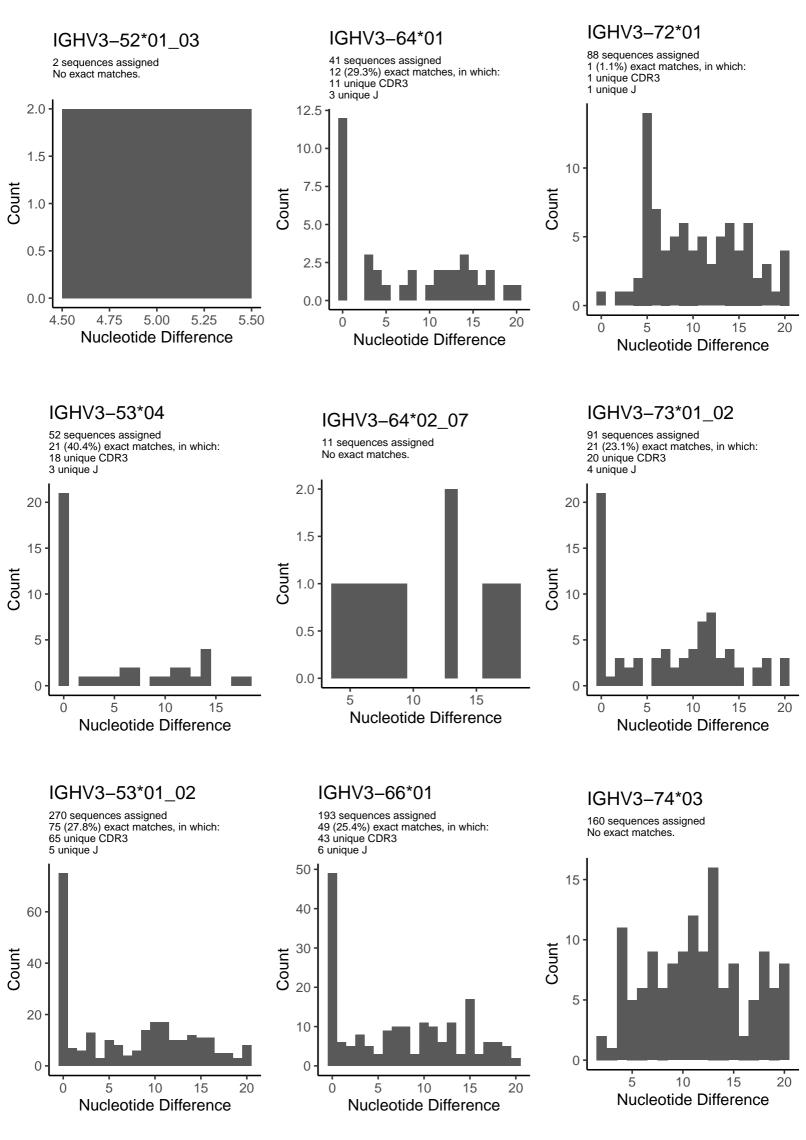
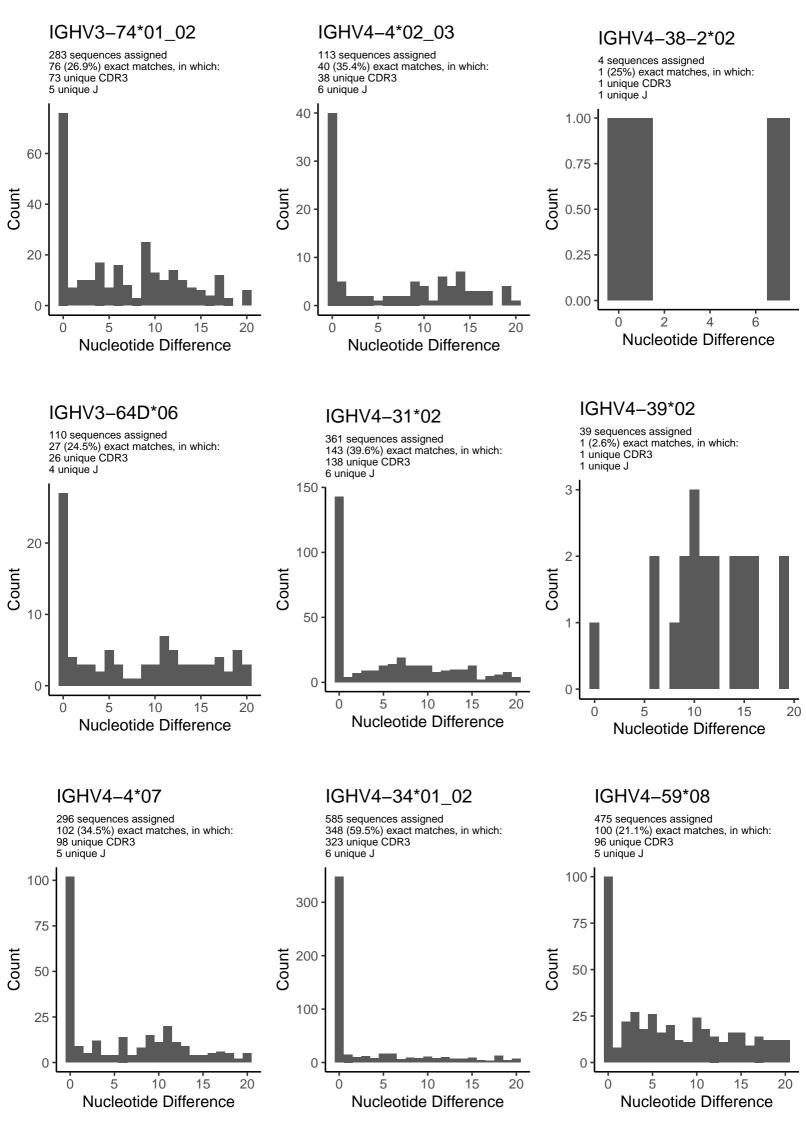


## IGHV3-7\*01 IGHV3-15\*01\_02 IGHV3-9\*03 794 sequences assigned 85 (10.7%) exact matches, in which: 305 sequences assigned 54 (17.7%) exact matches, in which: 44 sequences assigned 12 (27.3%) exact matches, in which: 83 unique CDR3 51 unique CDR3 11 unique CDR3 6 unique J 6 unique J 4 unique J 12.5 80 10.0 40 60 7.5 Count Count 40 5.0 20 20 2.5 0.0 0 15 20 5 10 0 10 15 0 10 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference** IGHV3-7\*04 IGHV3-11\*04 IGHV3-20\*03\_04 62 sequences assigned 16 (25.8%) exact matches, in which: 15 unique CDR3 214 sequences assigned 127 sequences assigned 30 (23.6%) exact matches, in which: 24 (11.2%) exact matches, in which: 23 unique CDR3 29 unique CDR3 5 unique J 3 unique J 4 unique J 25 30 15 20 20 15 Count Count 10 10 5 5 0 0 0 10 15 10 10 15 20 0 20 0 15 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-13\*04 IGHV3-21\*01\_02 IGHV3-9\*01 52 sequences assigned 563 sequences assigned 13 sequences assigned 18 (34.6%) exact matches, in which: 249 (44.2%) exact matches, in which: No exact matches. 17 unique CDR3 234 unique CDR3 4 unique J 6 unique J 2.0 250 15 200 1.5 150 Count 10 100 0.5 5 50 0.0 0 0 10 20 10 15 20 5 10 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference







## IGHV4-61\*01 IGHV5-51\*01\_03 199 sequences assigned 44 (22.1%) exact matches, in which: 193 sequences assigned 61 (31.6%) exact matches, in which: 42 unique CDR3 60 unique CDR3 5 unique J 5 unique J 40 30 40 Count Count Count 20 10 0 0 0 10 15 0 5 10 15 20 Nucleotide Difference Nucleotide Difference IGHV5-10-1\*01\_03 IGHV6-1\*01\_02 14 sequences assigned 4 (28.6%) exact matches, in which: 4 unique CDR3 293 sequences assigned 69 (23.5%) exact matches, in which: 64 unique CDR3 2 unique J 5 unique J 60 3 Count Count Count 2 20 1 0 0 0 5 10 15 20 0 6 12 Nucleotide Difference **Nucleotide Difference** IGHV7-4-1\*01 IGHV5-51\*07 4 sequences assigned 4 (100%) exact matches, in which: 4 unique CDR3 52 sequences assigned No exact matches. 2 unique J 15 3 10 Count Count 2 5 1 0 0 5 10 15 20 -0.250.00 0.25 0.50 -0.50**Nucleotide Difference Nucleotide Difference**



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