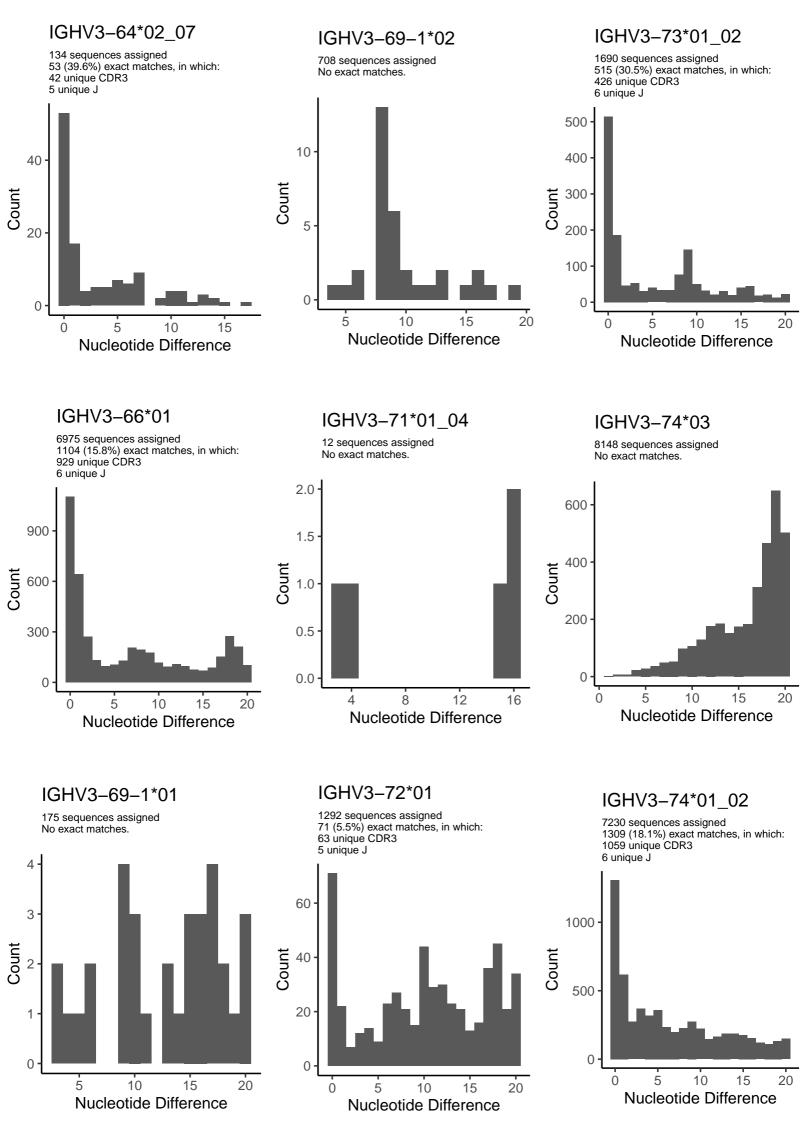
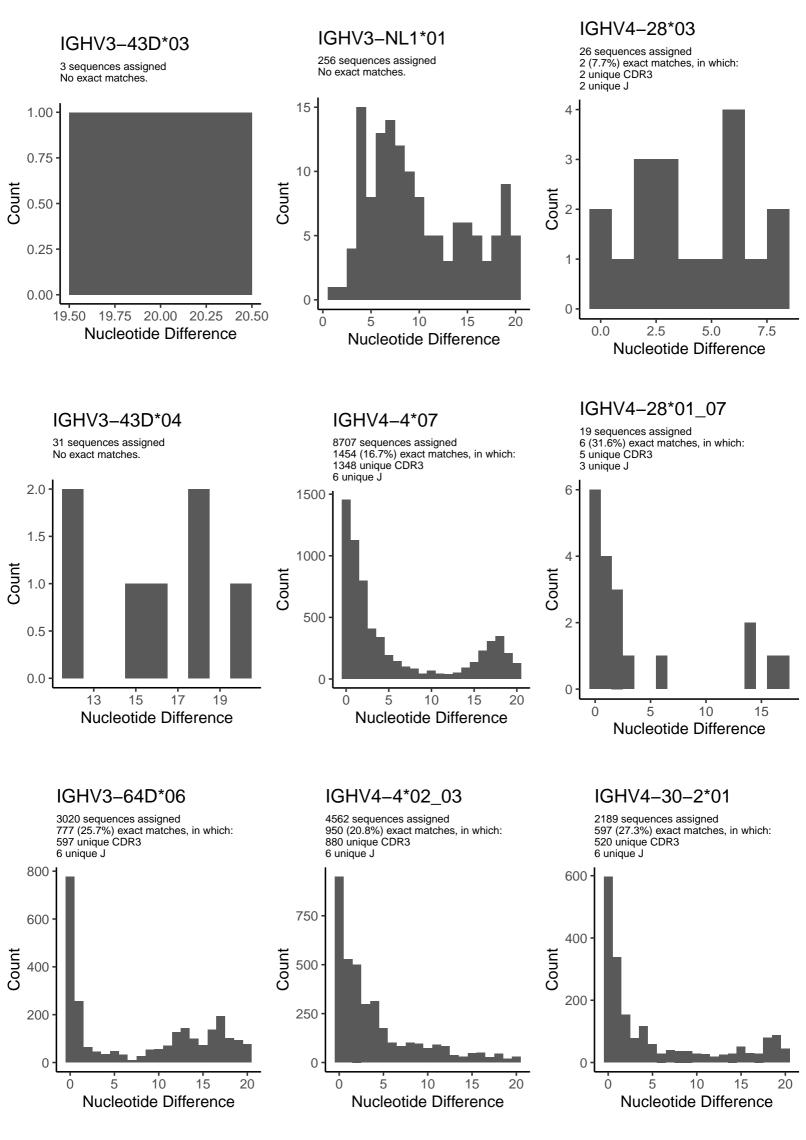
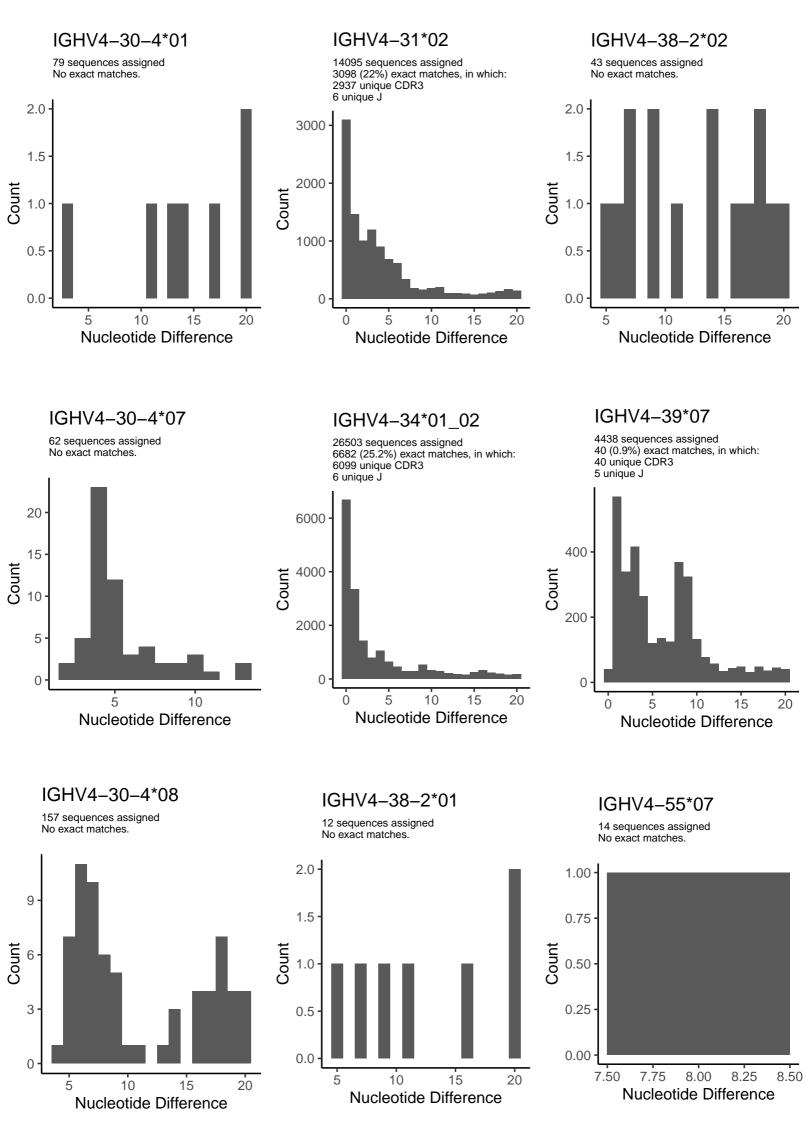
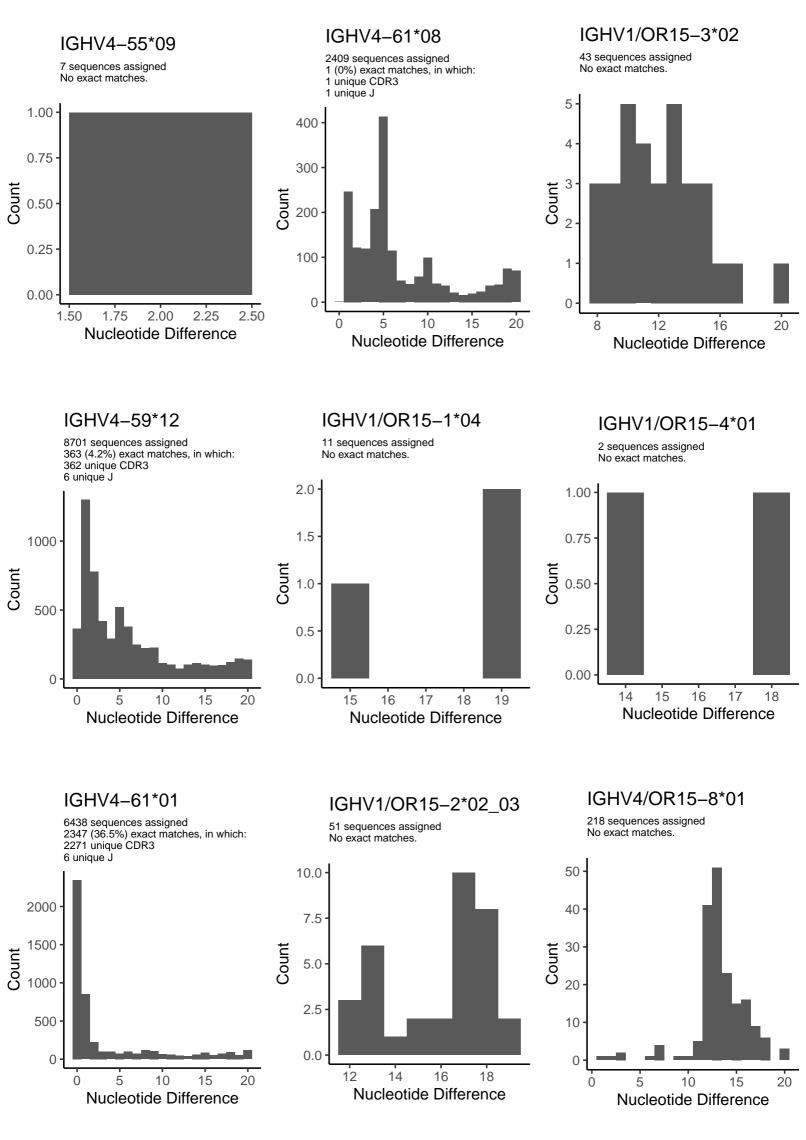


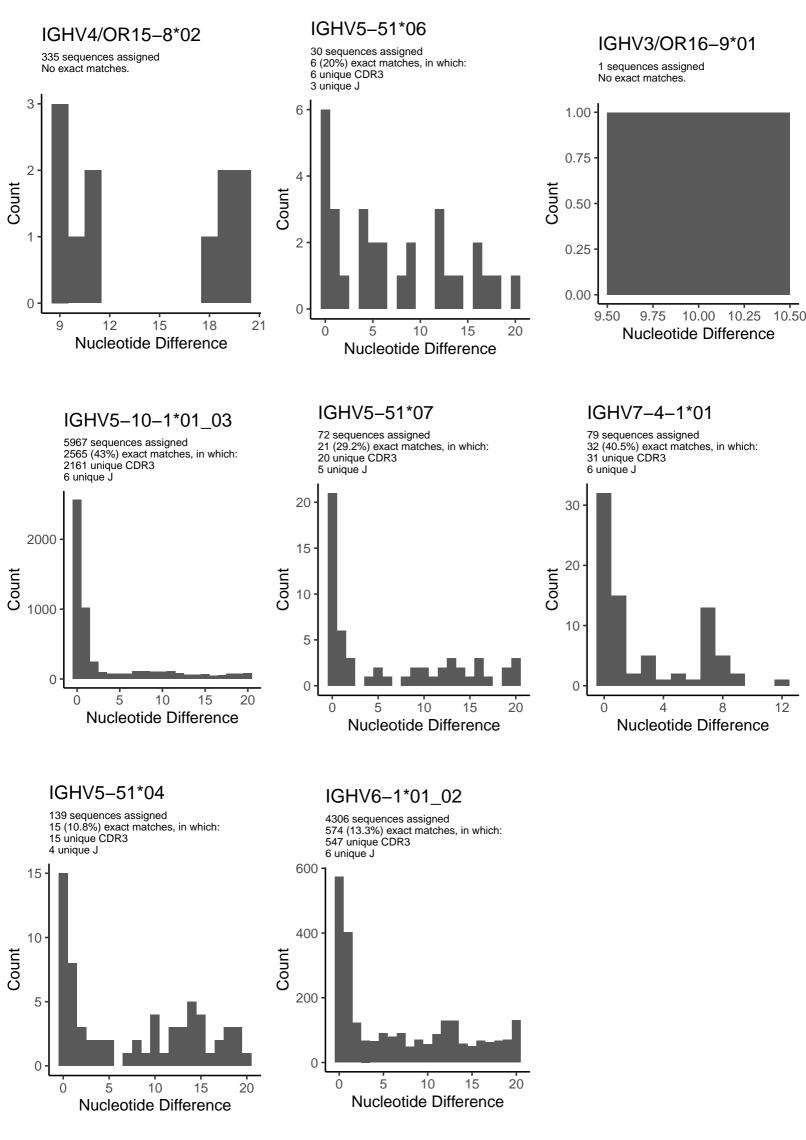
IGHV3-43*01 IGHV3-52*01_03 IGHV3-48*02 1253 sequences assigned 27 sequences assigned 12138 sequences assigned 2844 (23.4%) exact matches, in which: 258 (20.6%) exact matches, in which: 10 (37%) exact matches, in which: 215 unique CDR3 9 unique CDR3 2301 unique CDR3 6 unique J 3 unique J 6 unique J 10.0 200 7.5 2000 Count Count Count 5.0 100 1000 2.5 0 0.0 0 0 10 15 20 10 5 5 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-47*02 IGHV3-48*04 IGHV3-53*01_02 16 sequences assigned 2701 sequences assigned 128 (4.7%) exact matches, in which: 7 (43.8%) exact matches, in which: 3 unique CDR3 12358 sequences assigned 2044 (16.5%) exact matches, in which: 128 unique CDR3 1733 unique CDR3 2 unique J 5 unique J 6 unique J 200 2000 -6 150 1500 Count P Count 100 1000 2 500 50 0 0 0 0 10 15 5 10 15 20 0 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-48*01 IGHV3-49*03_05 IGHV3-64*04 2904 sequences assigned 2180 sequences assigned 187 sequences assigned 253 (8.7%) exact matches, in which: 725 (33.3%) exact matches, in which: No exact matches. 620 unique CDR3 251 unique CDR3 5 unique J 6 unique J 600 200 Count Count 20 400 100 10 200 0 0 0 20 15 0 10 5 10 15 20 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**













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