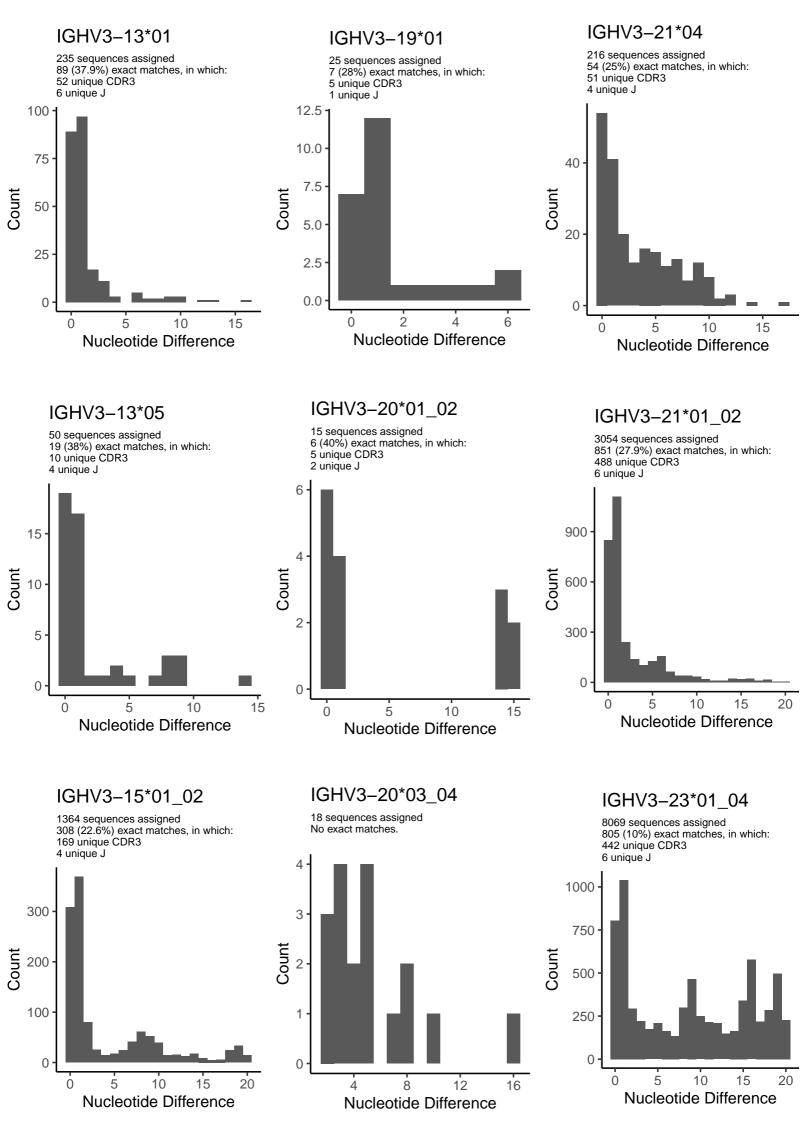
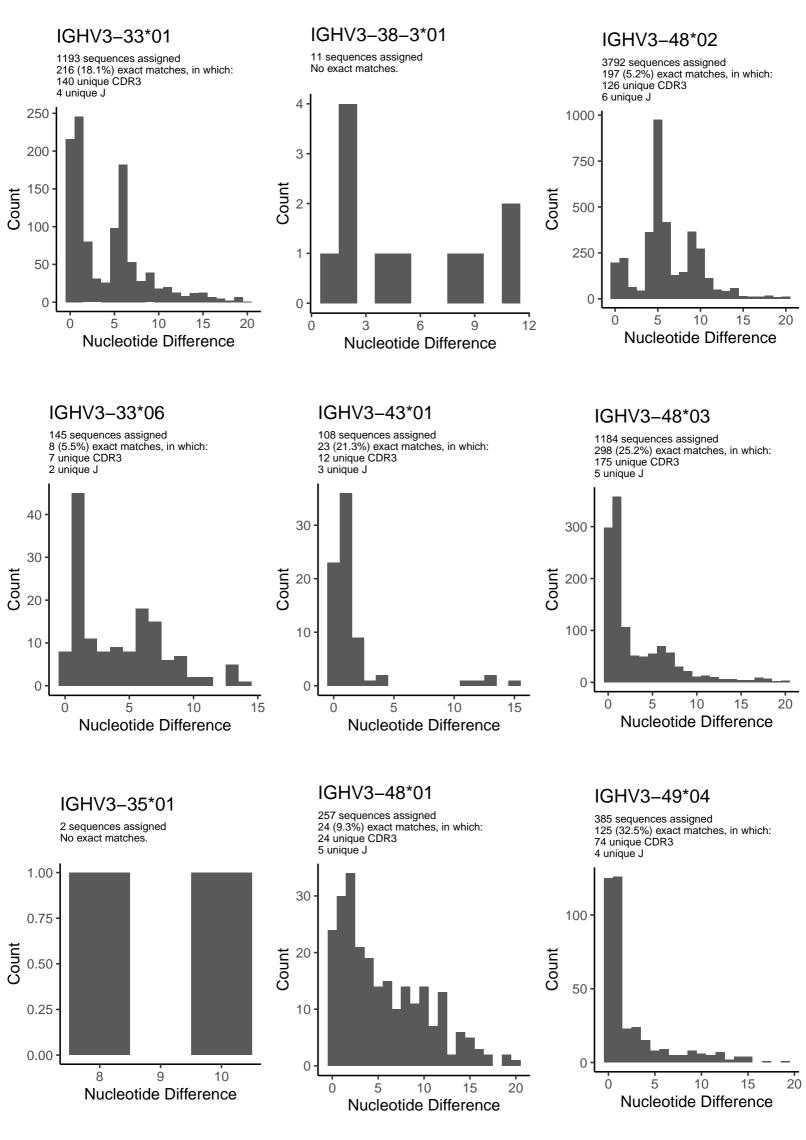
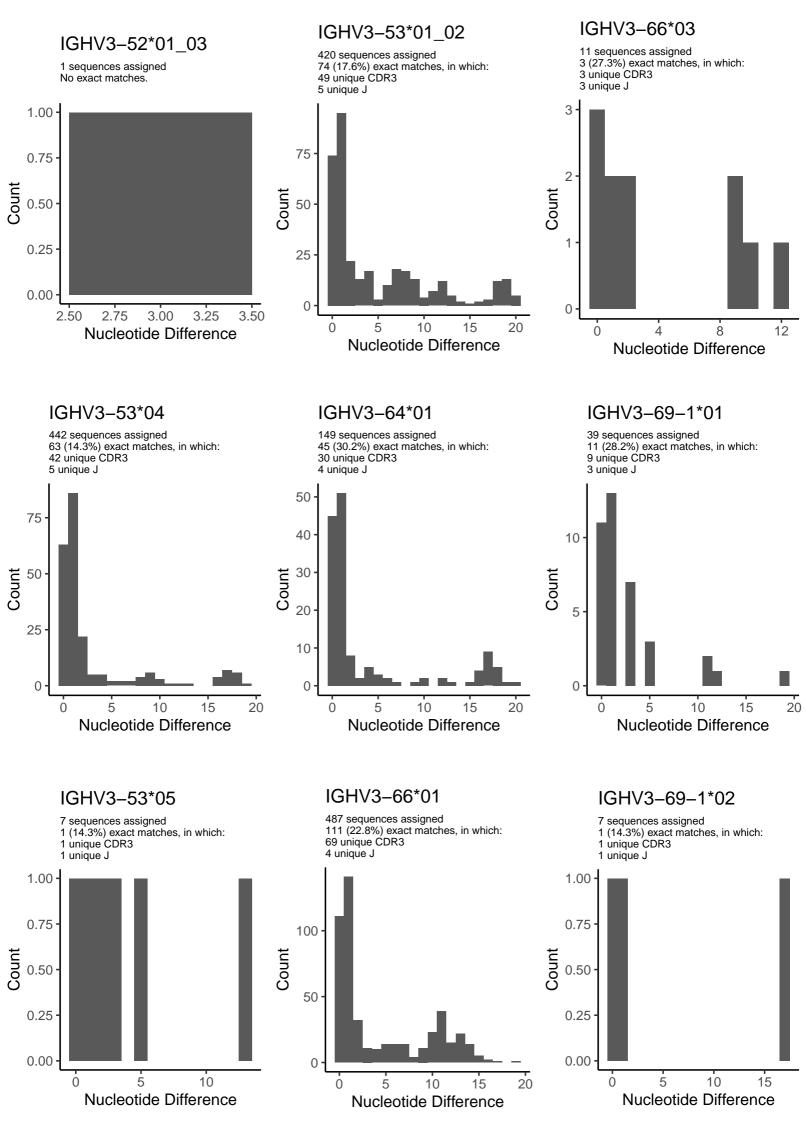
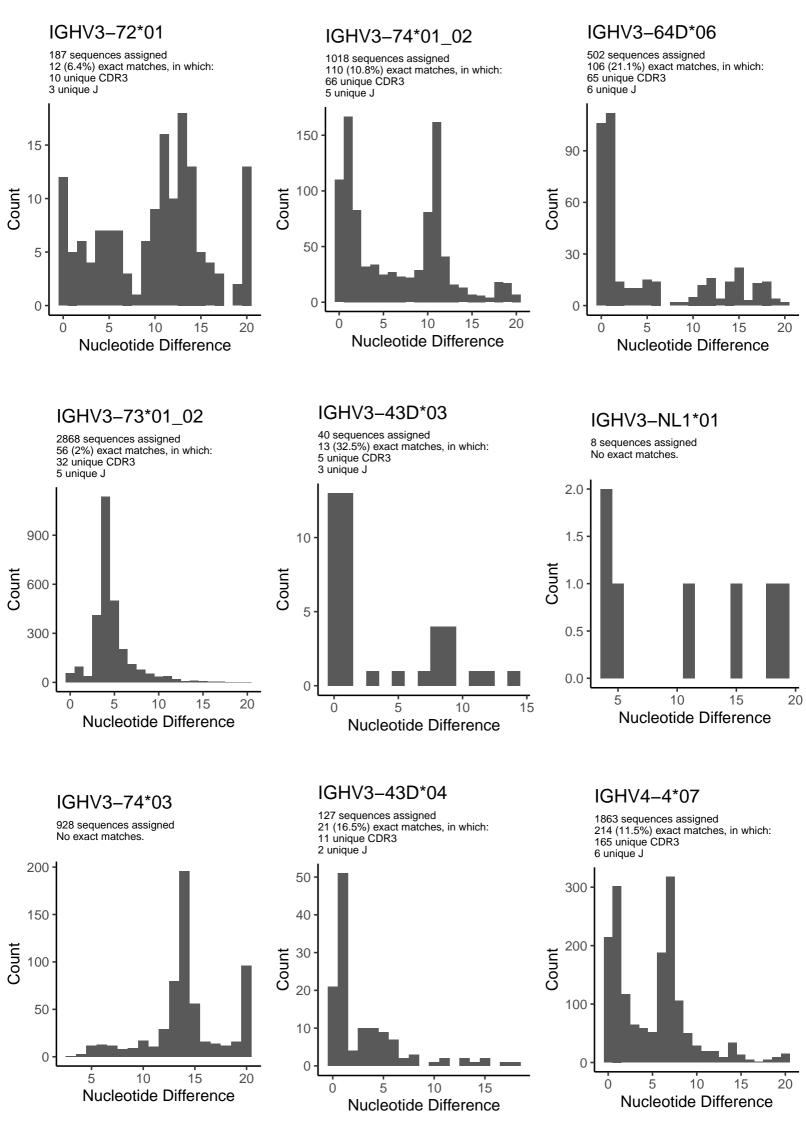


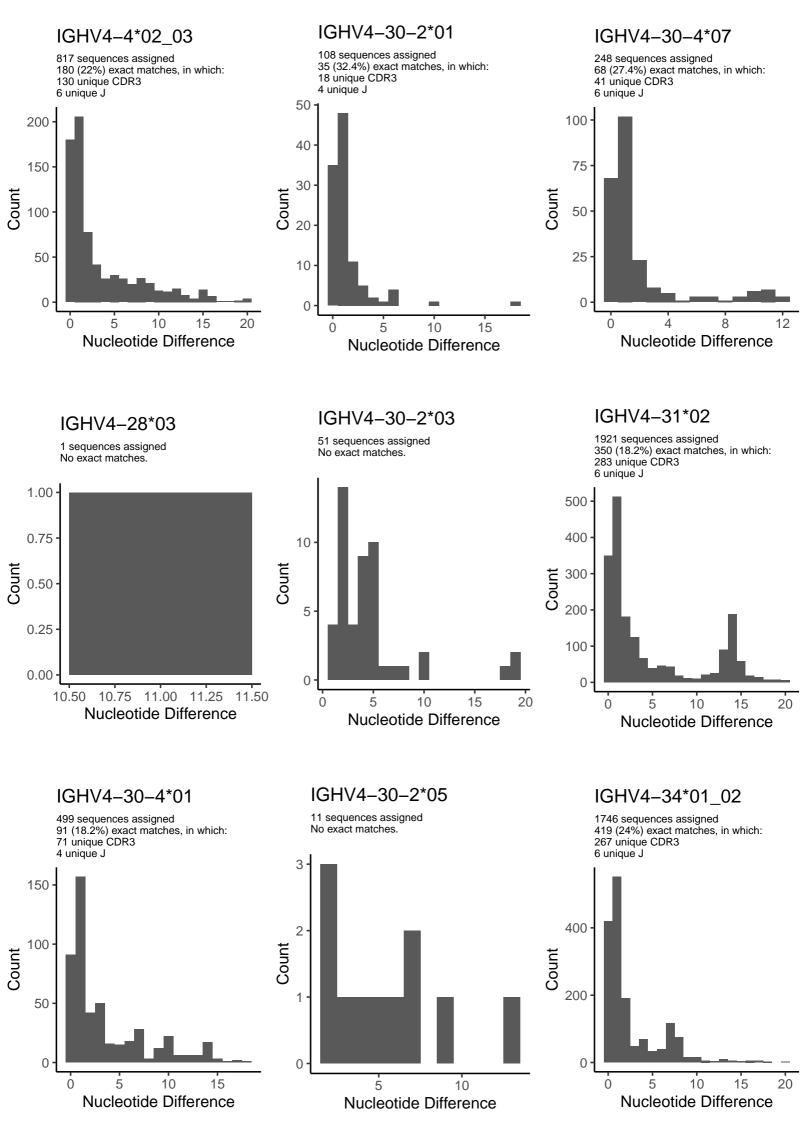
IGHV2-70*01 IGHV3-7*01 IGHV3-11*01 223 sequences assigned 2434 sequences assigned 368 (15.1%) exact matches, in which: 1045 sequences assigned 39 (17.5%) exact matches, in which: 226 (21.6%) exact matches, in which: 31 unique CDR3 231 unique CDR3 147 unique CDR3 4 unique J 5 unique J 6 unique J 400 60 200 300 150 Count 200 100 20 100 50 0 0 0 5 10 15 20 10 15 20 0 0 10 20 0 15 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-11*04 IGHV2-70*12 IGHV3-7*03 178 sequences assigned 28 (15.7%) exact matches, in which: 15 sequences assigned 2468 sequences assigned No exact matches. 231 (9.4%) exact matches, in which: 26 unique CDR3 148 unique CDR3 4 unique J 6 unique J 300 40 6 30 200 Count Count 20 100 10 0 0 0 10 15 20 2 3 0 5 4 5 10 0 5 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV2-70*11_15 IGHV3-9*01 IGHV3-11*06 364 sequences assigned 62 (17%) exact matches, in which: 1251 sequences assigned 676 sequences assigned 288 (23%) exact matches, in which: 114 (16.9%) exact matches, in which: 44 unique CDR3 168 unique CDR3 73 unique CDR3 4 unique J 6 unique J 6 unique J 300 100 100 200 Count Count 50 50 100 0 0 20 10 15 20 5 10 15 10 15 0 0 0 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

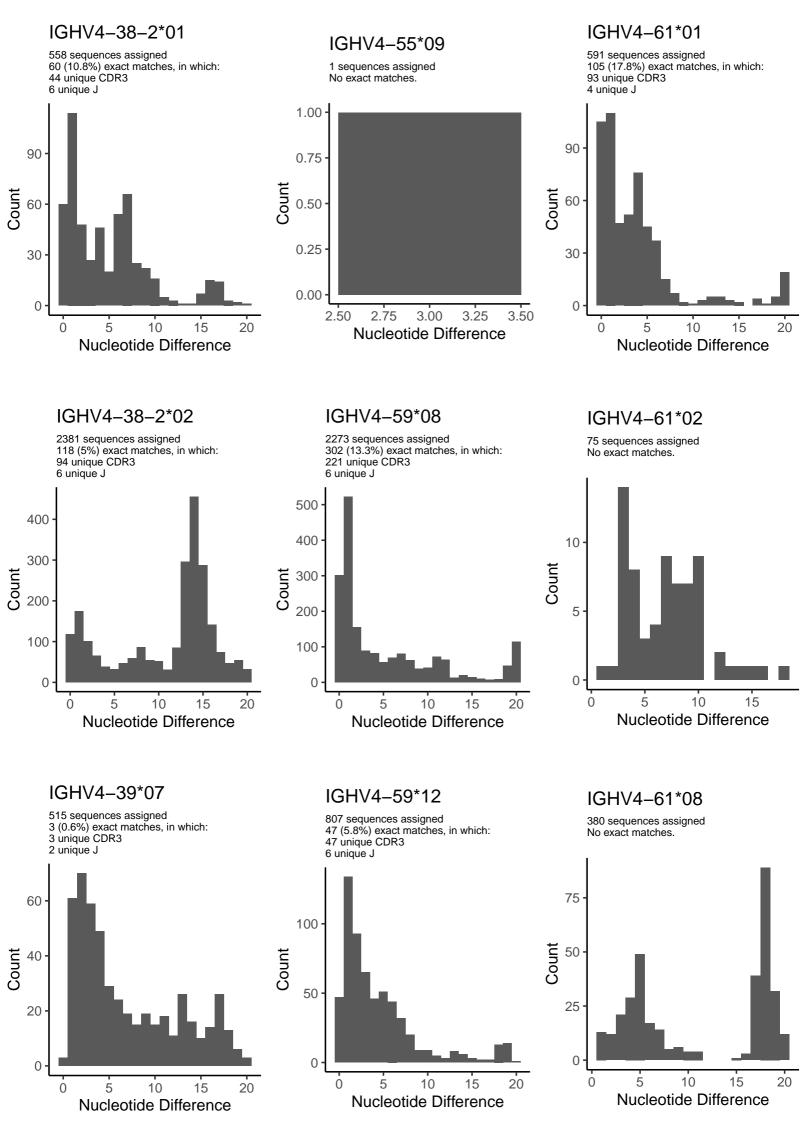


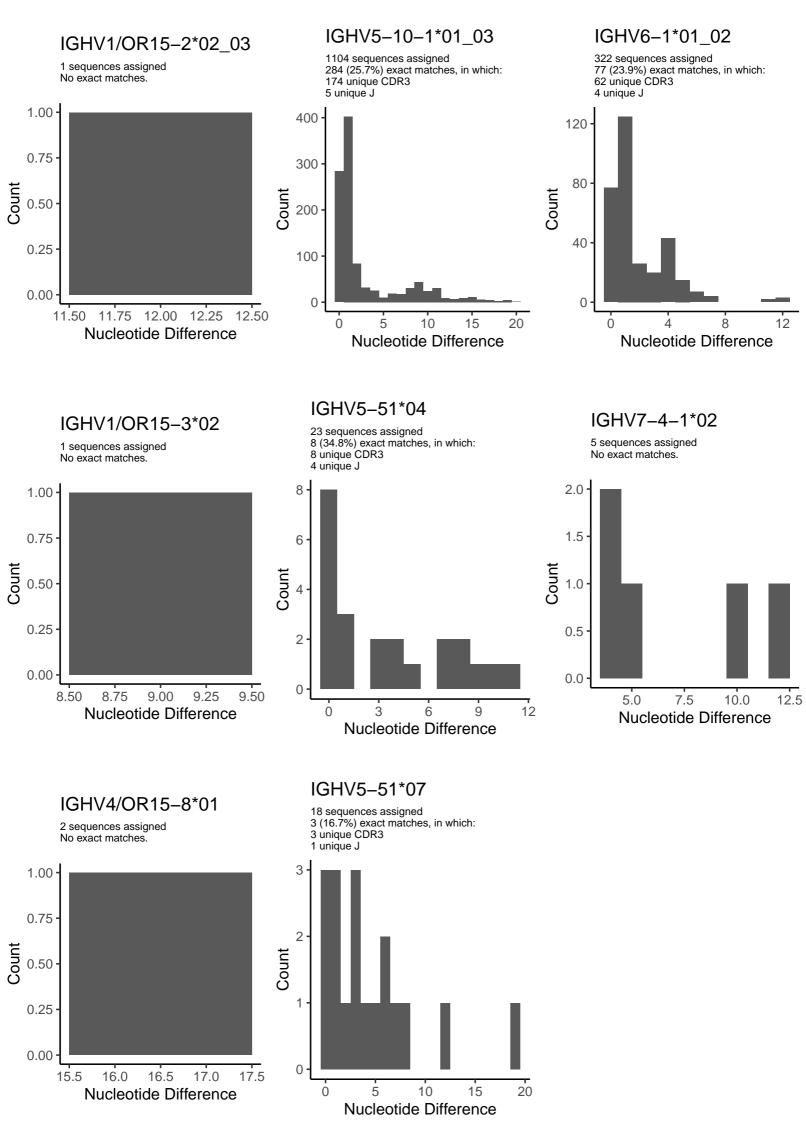














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