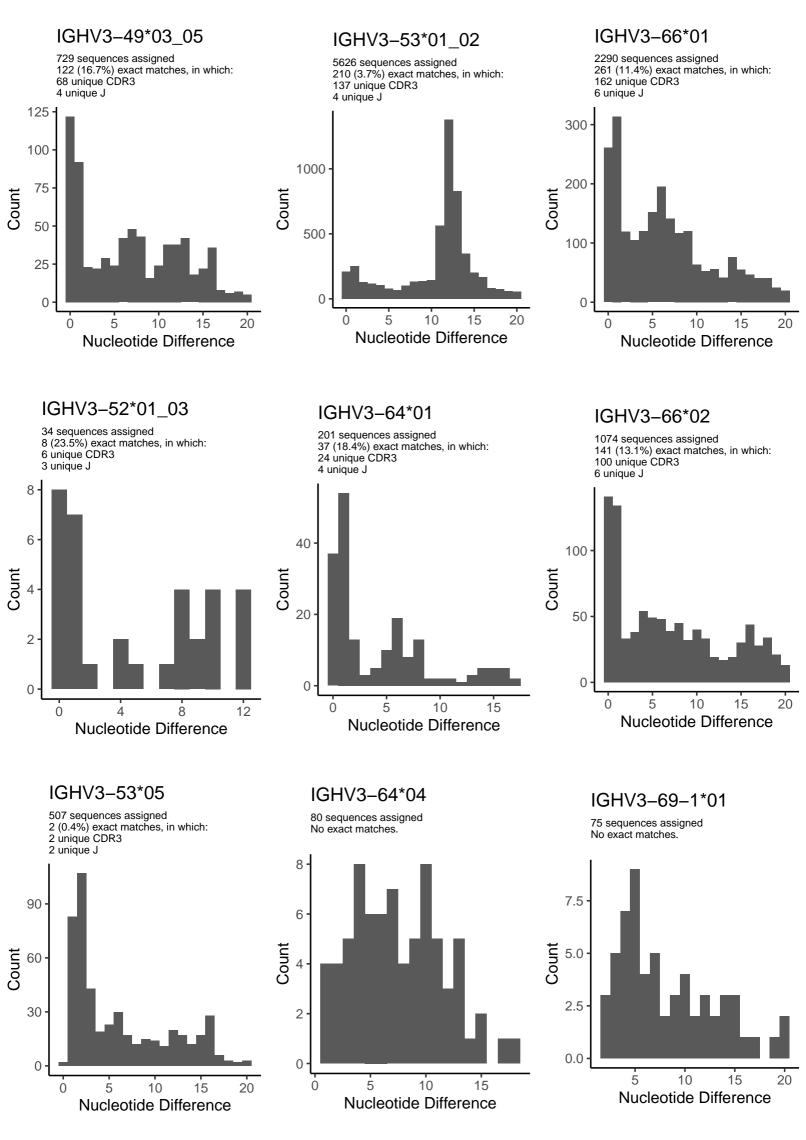
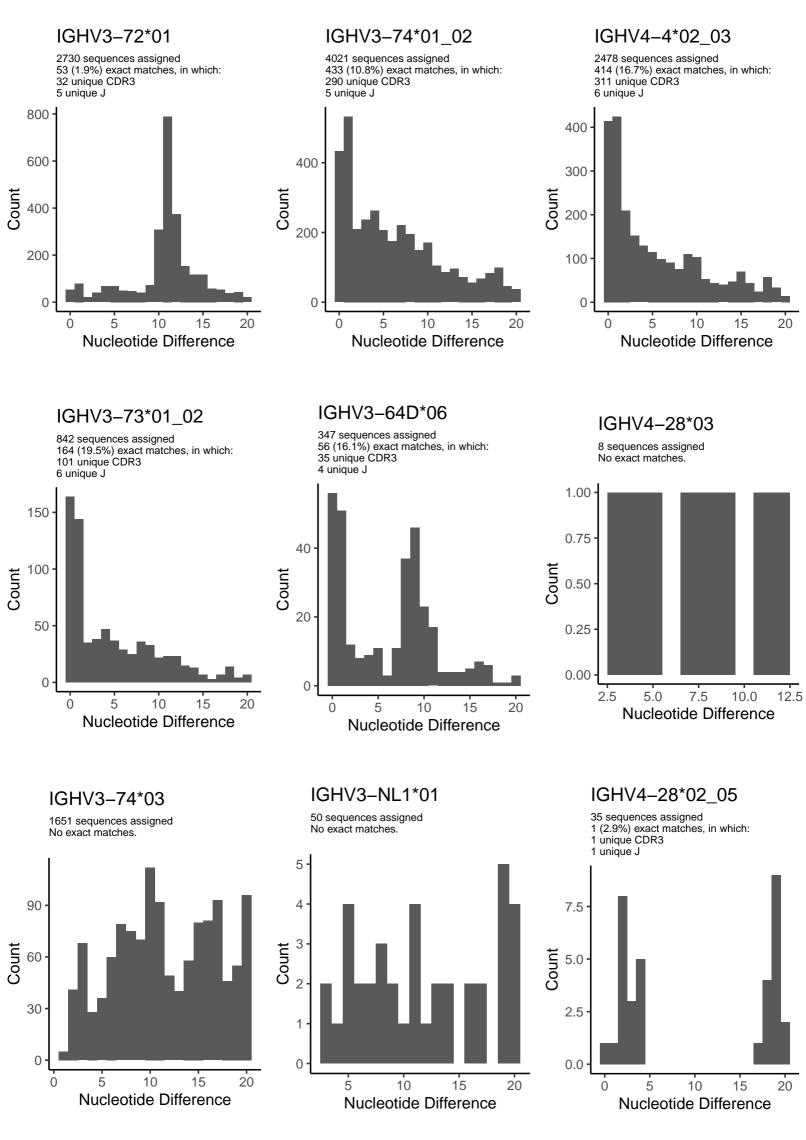
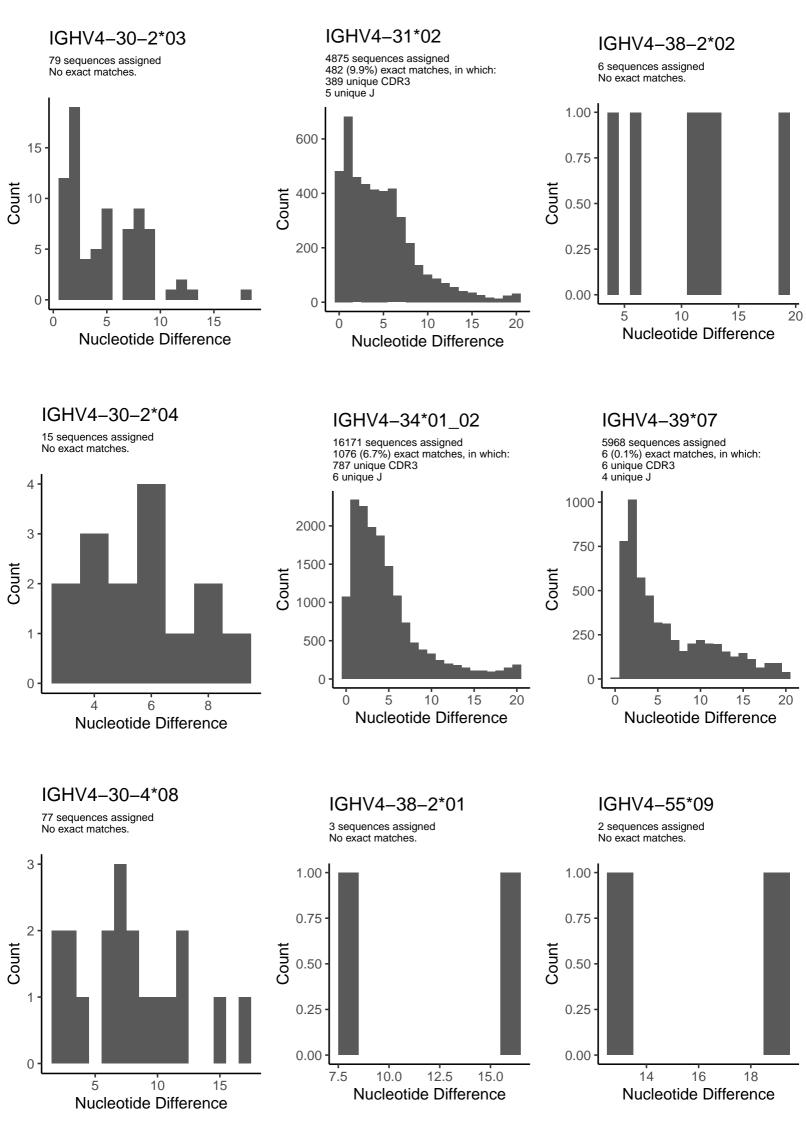
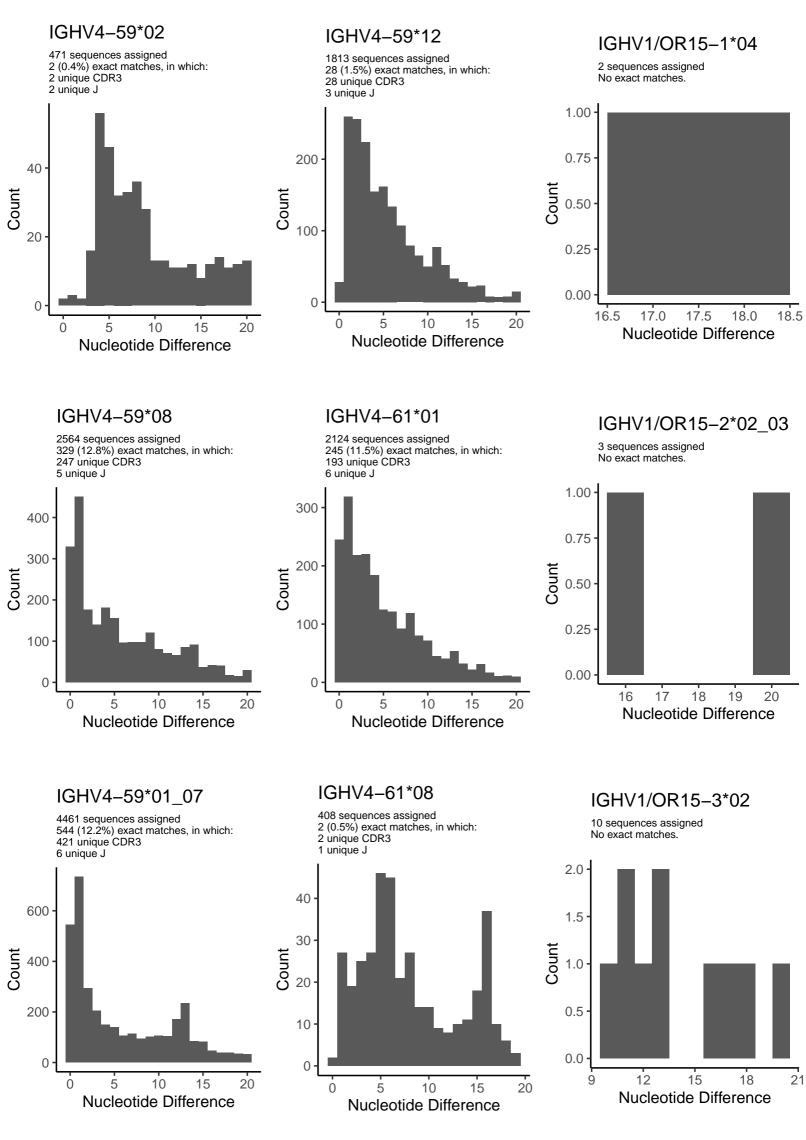


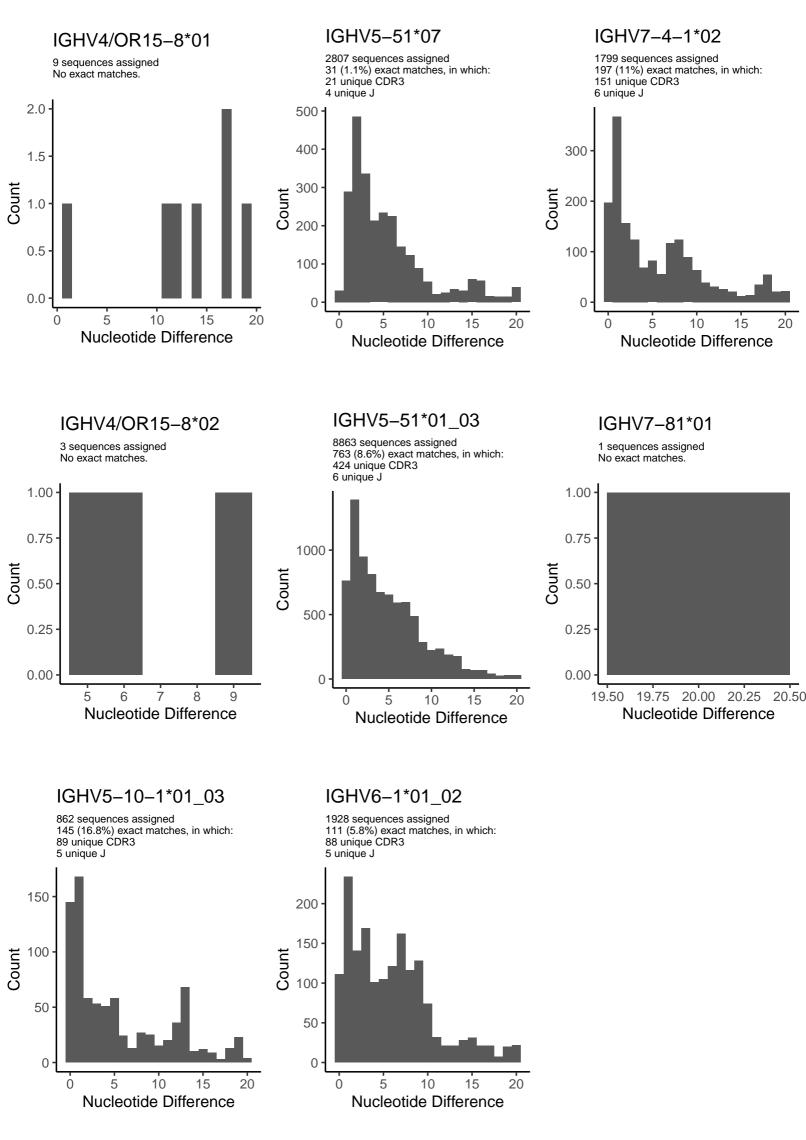
## IGHV3-30\*07 IGHV3-33\*08 IGHV3-48\*01 768 sequences assigned 34 (4.4%) exact matches, in which: 433 sequences assigned 83 (19.2%) exact matches, in which: 781 sequences assigned 113 (14.5%) exact matches, in which: 34 unique CDR3 78 unique CDR3 83 unique CDR3 5 unique J 5 unique J 5 unique J 80 80 90 60 60 Count Count 60 40 40 30 20 20 0 0 0 10 20 10 15 20 5 10 0 15 5 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV3-33\*01 IGHV3-48\*02 IGHV3-35\*01 3520 sequences assigned 843 (23.9%) exact matches, in which: 1887 sequences assigned 283 (15%) exact matches, in which: 2 sequences assigned No exact matches. 175 unique CDR3 530 unique CDR3 6 unique J 5 unique J 1.00 800 0.75 600 200 Count Count 0.50 400 100 0.25 200 0.00 0 0 10 11 12 20 10 15 10 15 20 0 5 0 5 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-43\*01 IGHV3-33\*06 IGHV3-48\*04 219 sequences assigned 525 sequences assigned 7655 sequences assigned 32 (14.6%) exact matches, in which: 28 (5.3%) exact matches, in which: 656 (8.6%) exact matches, in which: 20 unique CDR3 26 ùniqué CDR3 434 unique CDR3 3 unique J 4 unique J 5 unique J 60 100 1000 75 40 Count Count Count 50 500 20 25 0 0 0 5 10 15 20 5 10 15 20 0 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference













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