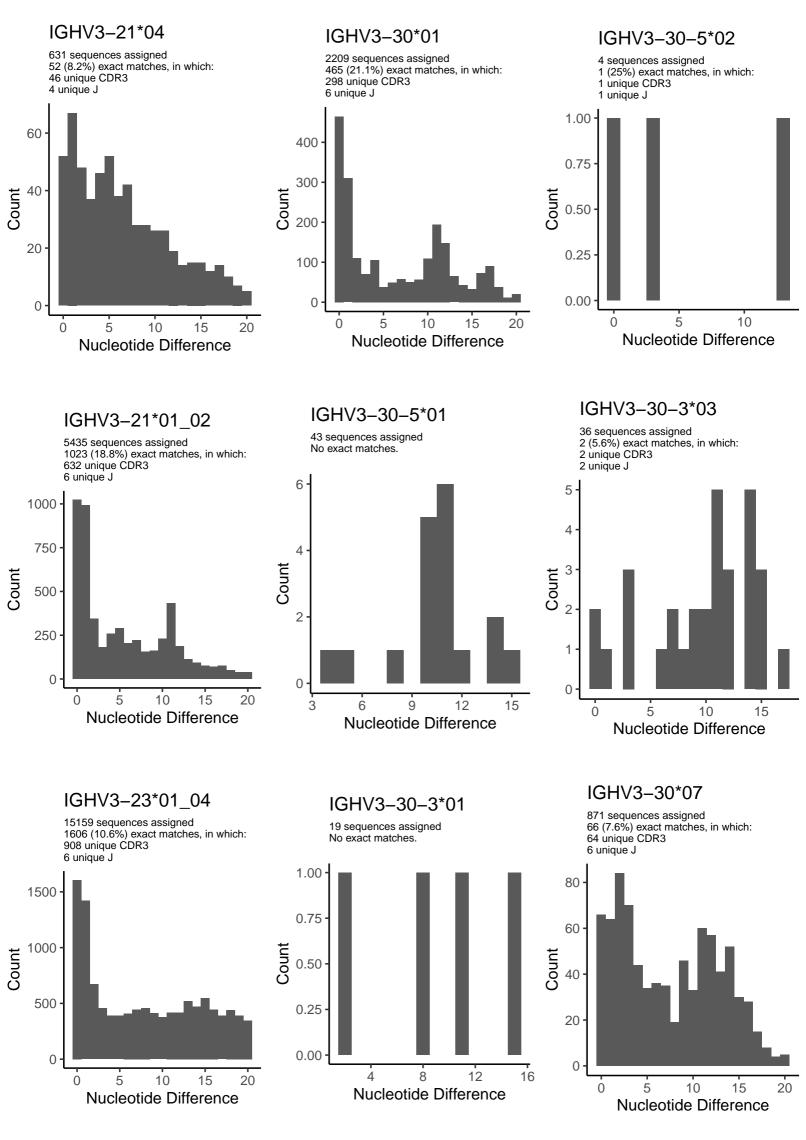
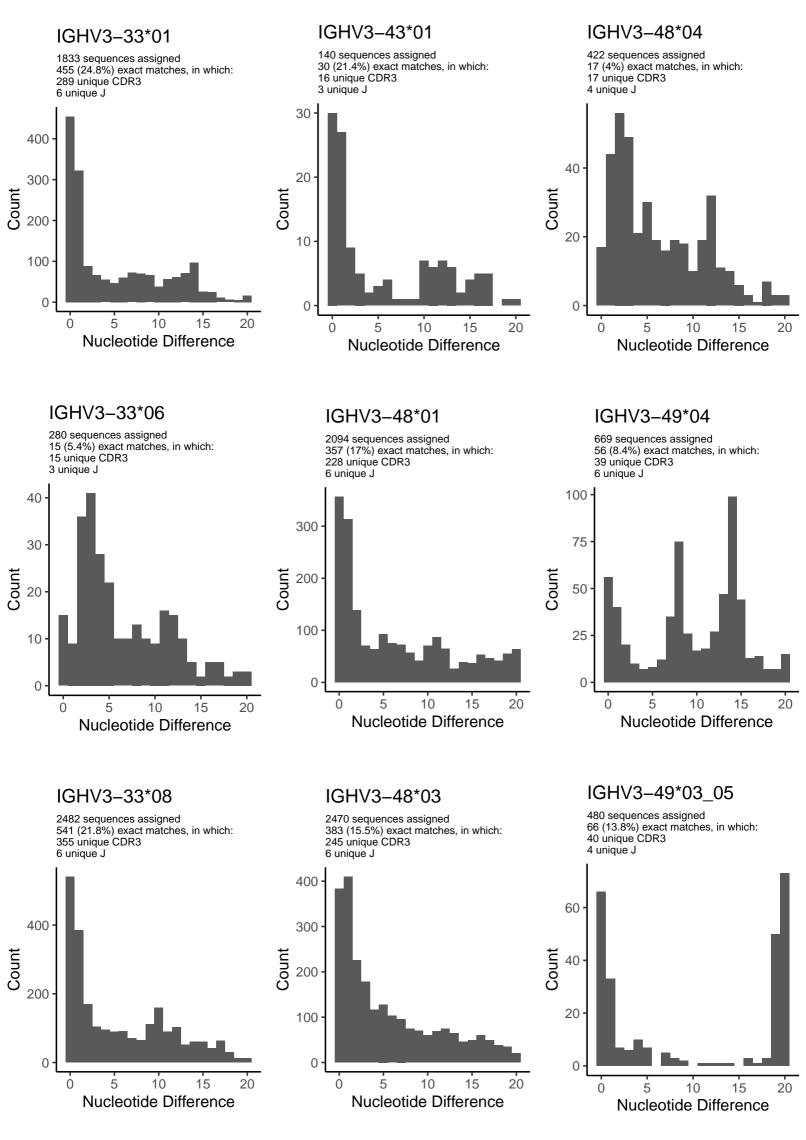
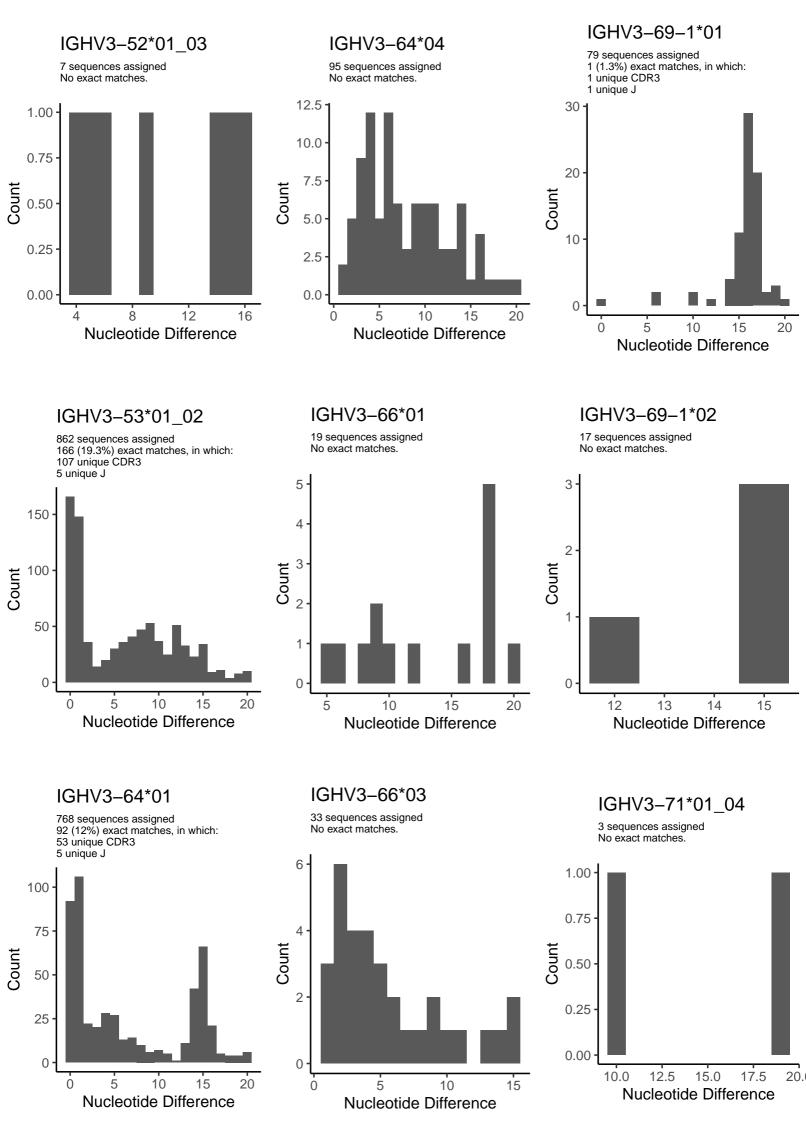
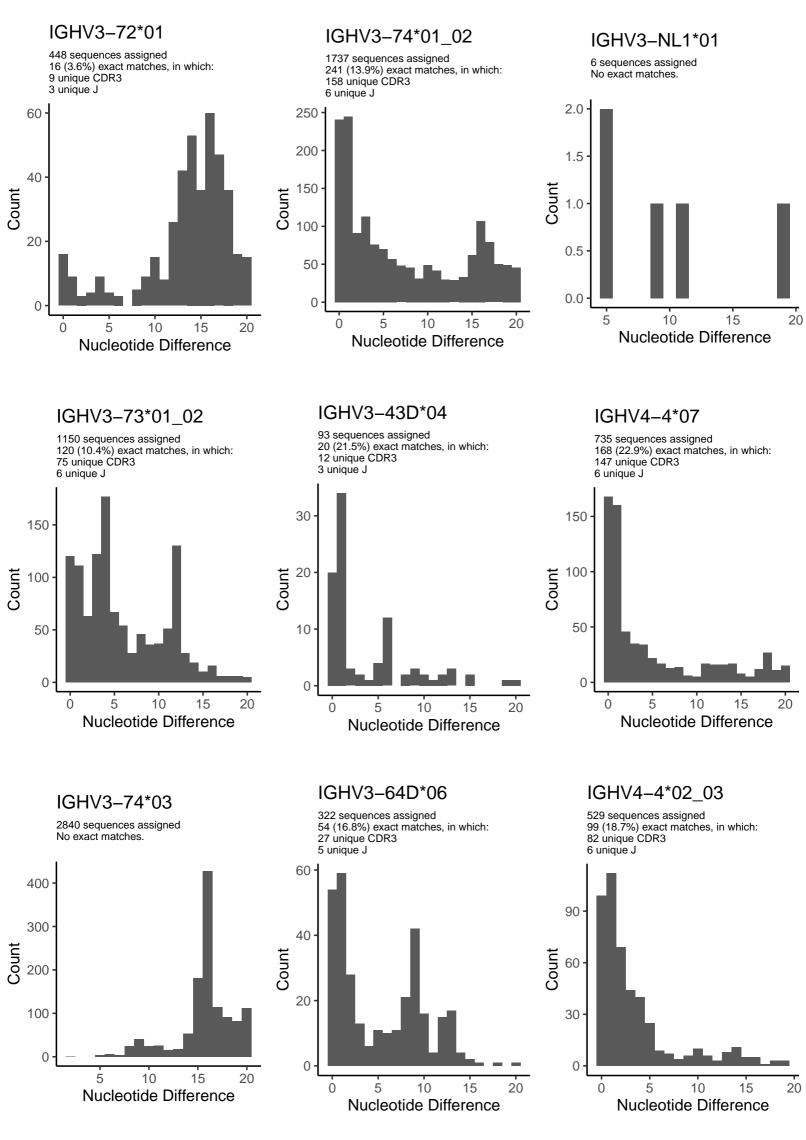


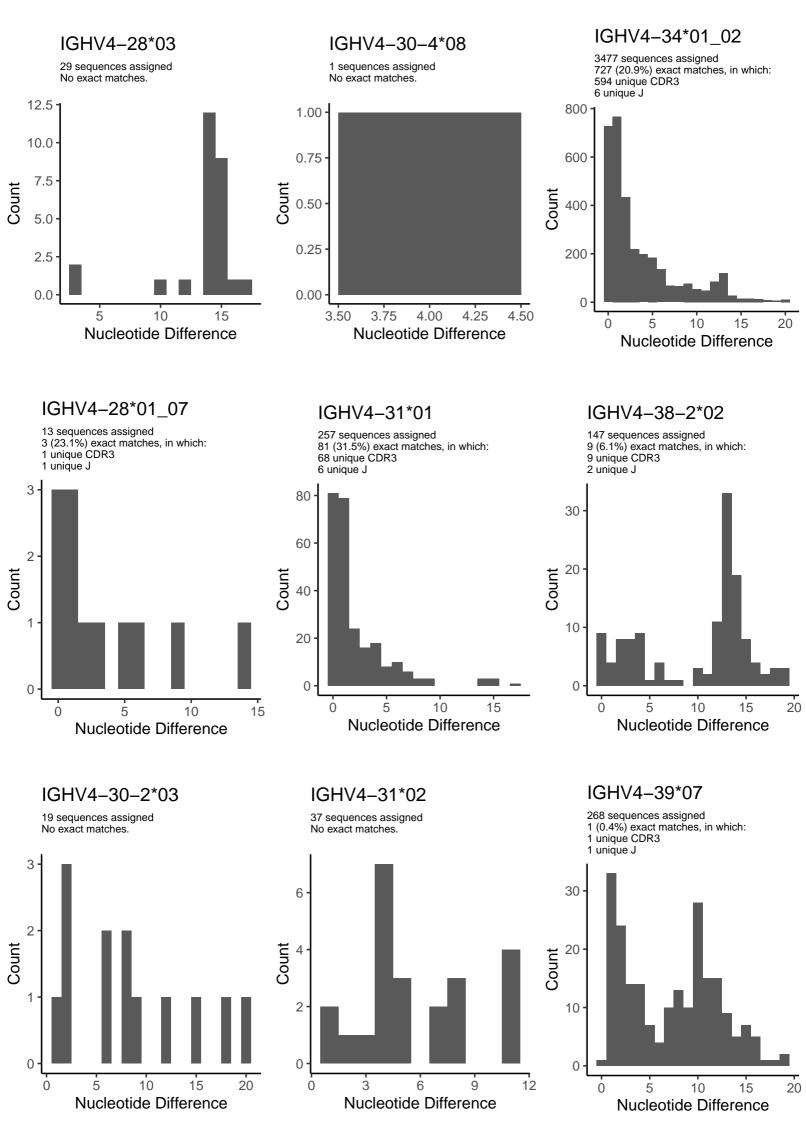
## IGHV3-15\*01\_02 IGHV3-9\*01 IGHV3-11\*06 1427 sequences assigned 253 (17.7%) exact matches, in which: 2065 sequences assigned 313 (15.2%) exact matches, in which: 544 sequences assigned 115 (21.1%) exact matches, in which: 86 unique CDR3 153 unique CDR3 189 unique CDR3 6 unique J 5 unique J 5 unique J 120 250 300 200 90 200 Count 150 60 100 100 30 50 0 0 0 5 10 15 20 5 10 15 20 5 10 15 20 0 0 0 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV3-13\*01 IGHV3-20\*01\_02 IGHV3-11\*01 331 sequences assigned 47 (14.2%) exact matches, in which: 79 sequences assigned 21 (26.6%) exact matches, in which: 1489 sequences assigned 392 (26.3%) exact matches, in which: 31 unique CDR3 11 unique CDR3 237 unique CDR3 5 unique J 4 unique J 5 unique J 400 -20 40 300 15 30 Count Count 200 10 20 100 5 10 0 0 0 20 10 15 0 5 10 15 20 0 0 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-11\*04 IGHV3-13\*05 IGHV3-20\*03\_04 472 sequences assigned 32 sequences assigned 50 sequences assigned 13 (40.6%) exact matches, in which: 69 (14.6%) exact matches, in which: No exact matches. 67 unique CDR3 8 unique CDR3 6 unique J 5 unique J 60 7.5 10 5.0 Count 5 2.5 20 0.0 0 0 10 0 10 15 20 0 Nucleotide Difference **Nucleotide Difference Nucleotide Difference**

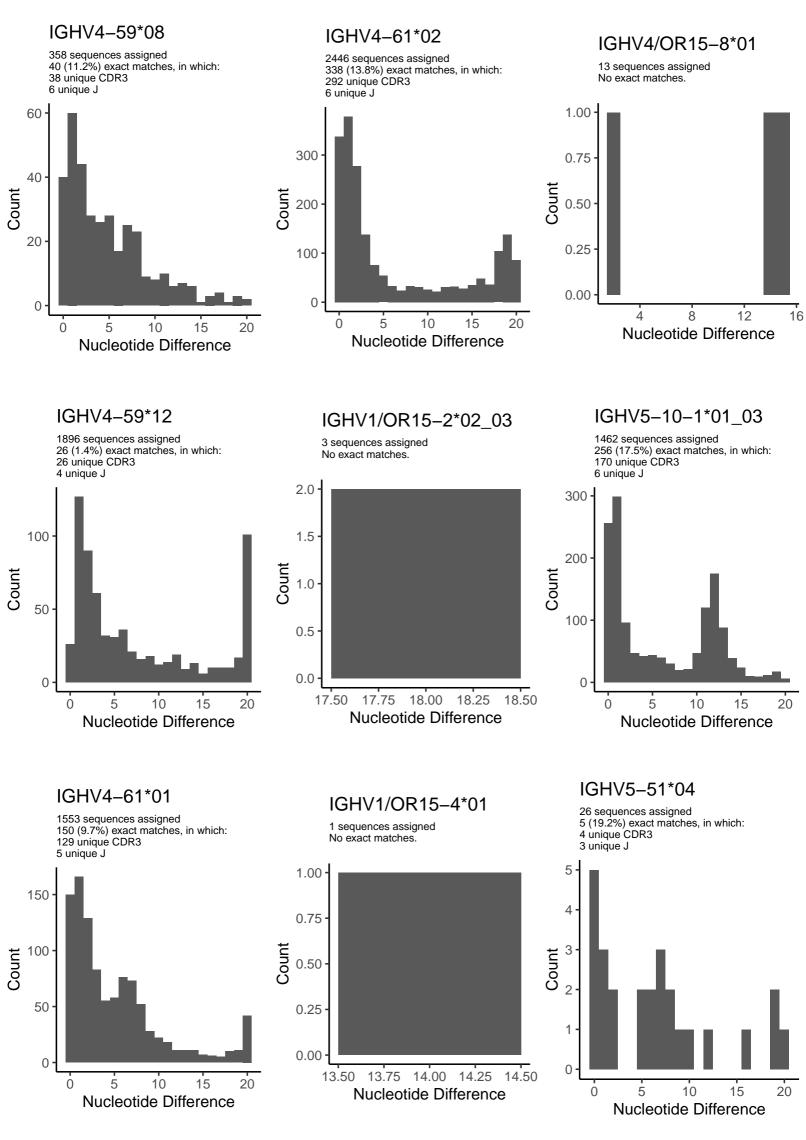








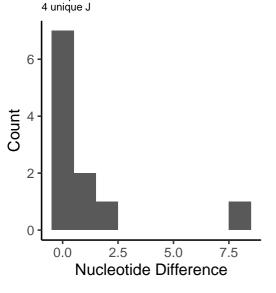




## IGHV5-51\*06 IGHV7-4-1\*01 2 sequences assigned 2 (100%) exact matches, in which: 9 sequences assigned 2 (22.2%) exact matches, in which: 2 unique CDR3 1 unique J 2 unique CDR3 2 unique J 2.0 2.0 -1.5 1.5 Count 1.0 Count 1.0 0.5 0.5 0.0 0.0 -0.250.00 0.25 0.50 0 2 3 -0.50**Nucleotide Difference Nucleotide Difference**

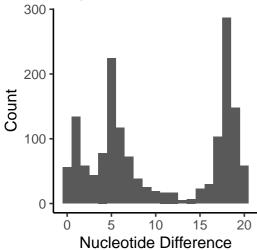
## IGHV5-51\*07

12 sequences assigned 7 (58.3%) exact matches, in which: 7 unique CDR3



## IGHV6-1\*01\_02

1652 sequences assigned 56 (3.4%) exact matches, in which: 45 unique CDR3 5 unique J





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