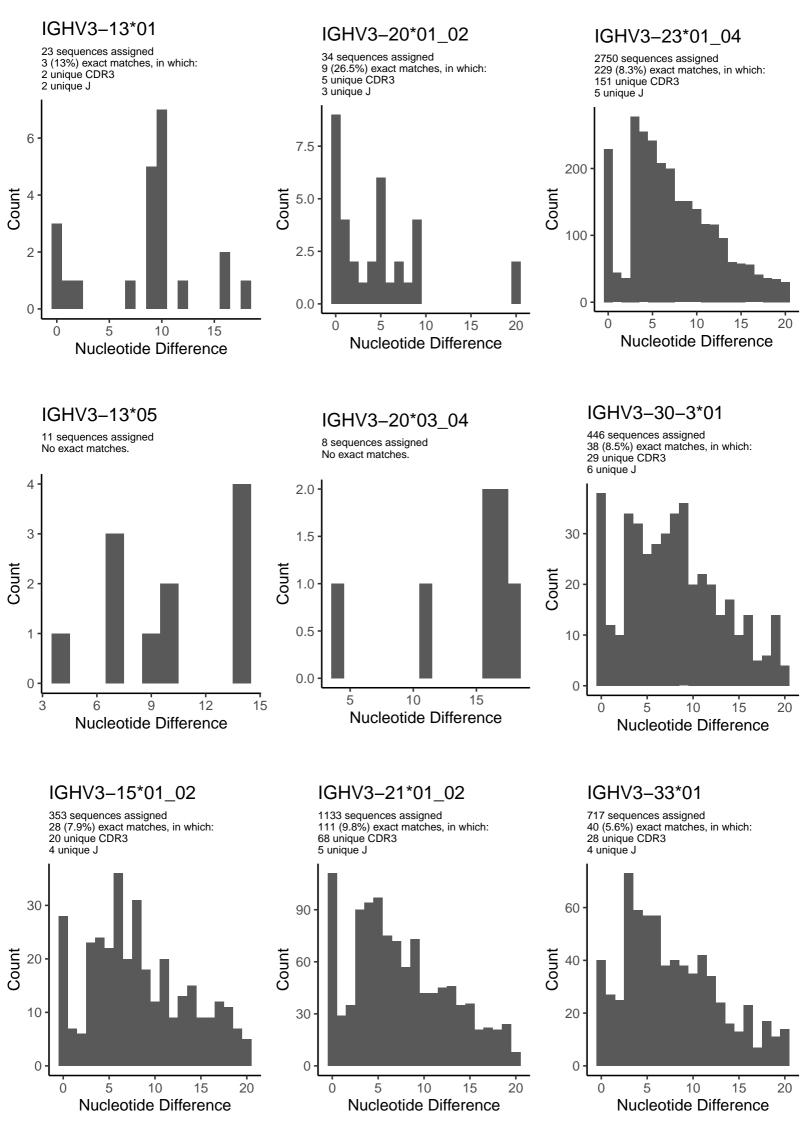
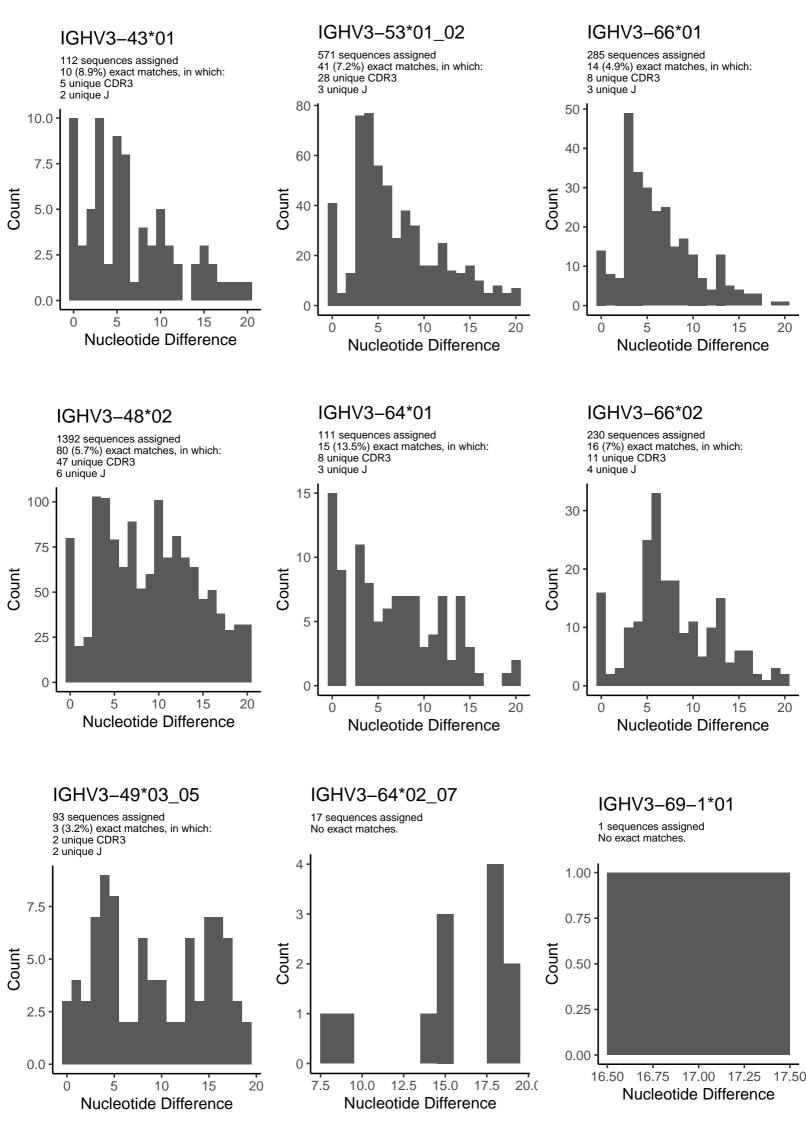
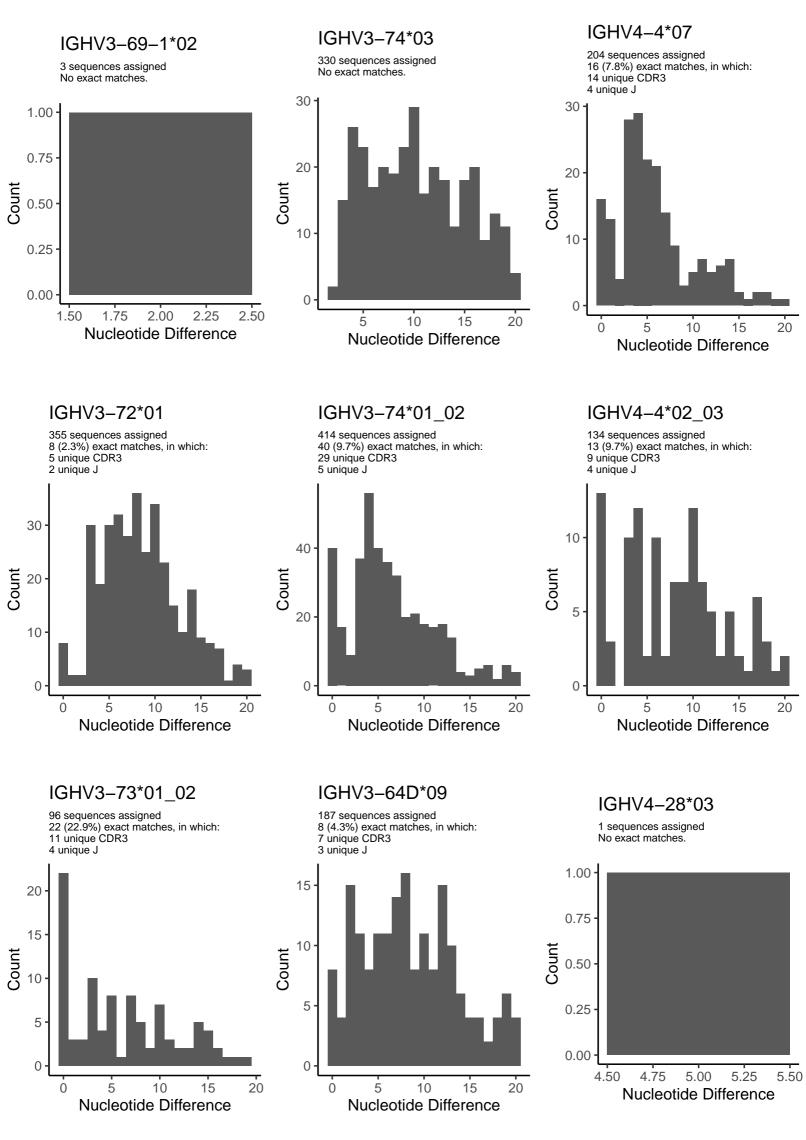
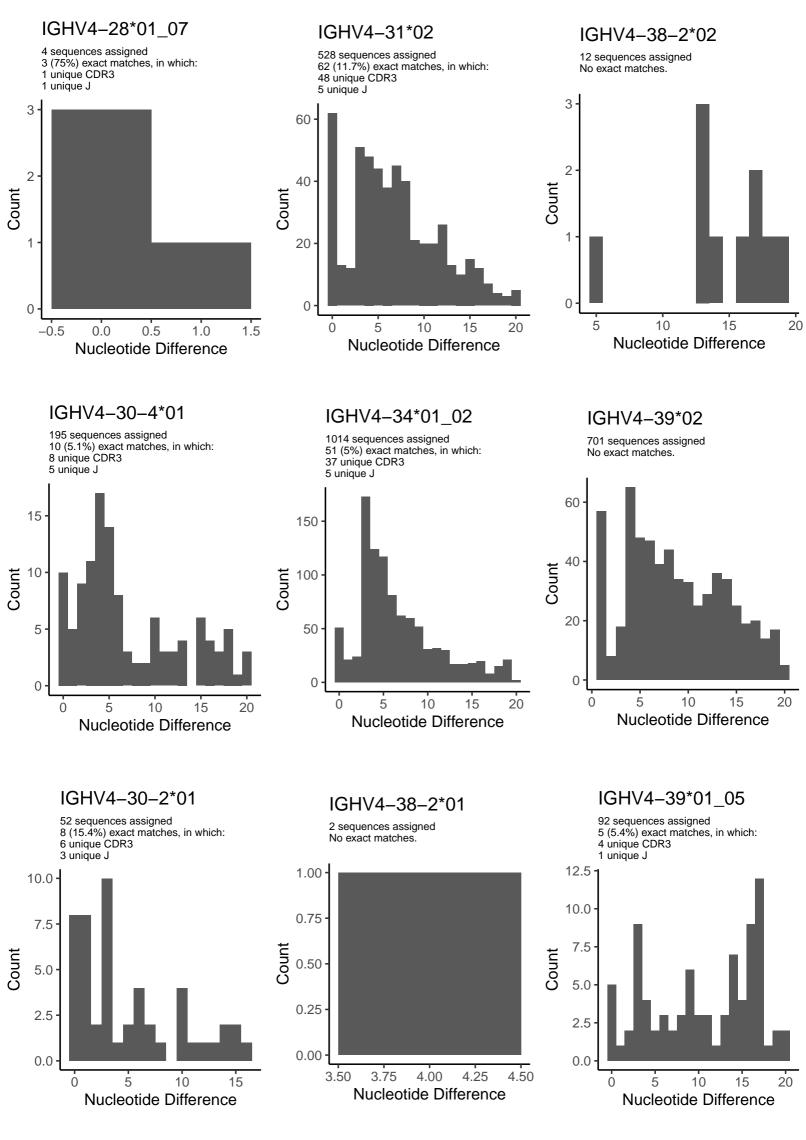


IGHV2-5*02 IGHV3-9*01 IGHV2-70D*04 254 sequences assigned 21 (8.3%) exact matches, in which: 269 sequences assigned 8 sequences assigned 15 (5.6%) exact matches, in which: No exact matches. 15 unique CDR3 17 unique CDR3 5 unique J 4 unique J 3 30 30 20 Count Count 10 10 0 0 10 15 5 10 0 15 Nucleotide Difference Nucleotide Difference **Nucleotide Difference** IGHV2-26*01 IGHV3-7*01 IGHV3-11*01 37 sequences assigned 5 (13.5%) exact matches, in which: 5 unique CDR3 310 sequences assigned 30 (9.7%) exact matches, in which: 1180 sequences assigned 49 (4.2%) exact matches, in which: 32 unique CDR3 19 unique CDR3 3 unique J 5 unique J 4 unique J 5 30 90 4 3 Count Count 20 60 2 10 30 0 0 0 10 15 20 10 15 20 0 5 0 5 10 15 0 5 Nucleotide Difference Nucleotide Difference Nucleotide Difference IGHV2-70*11_15 IGHV3-7*03 IGHV3-11*06 63 sequences assigned 1083 sequences assigned 140 sequences assigned 8 (12.7%) exact matches, in which: 8 unique CDR3 49 (4.5%) exact matches, in which: 16 (11.4%) exact matches, in which: 28 unique CDR3 10 unique CDR3 3 unique J 4 unique J 4 unique J 20 90 6 15 Count 60 10 30 2 5 0 0 0 0 5 10 15 20 5 10 15 0 5 10 15 **Nucleotide Difference** Nucleotide Difference **Nucleotide Difference**









IGHV4-59*08 IGHV6-1*01_02 282 sequences assigned 6 (2.1%) exact matches, in which: 5 unique CDR3 682 sequences assigned 31 (4.5%) exact matches, in which: 22 unique CDR3 5 unique J 3 unique J 60 40 Count 40 20 20 0 0 0 5 10 15 10 15 Nucleotide Difference Nucleotide Difference IGHV4-61*02 IGHV7-4-1*01 626 sequences assigned 65 (10.4%) exact matches, in which: 55 unique CDR3 1 sequences assigned No exact matches. 6 unique J 1.00 -75 0.75 Count Count Count 50 0.25 25 0.00 0 10.75 11.00 11.25 11.50 10.50 0 10 15 20 **Nucleotide Difference** Nucleotide Difference IGHV5-10-1*01_03 IGHV7-4-1*02 40 sequences assigned 4 (10%) exact matches, in which: 4 unique CDR3 1 sequences assigned No exact matches. 3 unique J 8 1.00 0.75 6 Count 0.50 Count ⁴ 0.25 2 0.00

10.50

10.75

11.00

Nucleotide Difference

11.25

11.50

0

0

5

10

Nucleotide Difference

15



/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.
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/arning –	no	inferred	sequences	found.
			sequences	
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/arning –	no	inferred	sequences	found.
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/arning –	no	inferred	sequences	found.
/arning –	no	inferred	sequences	found.