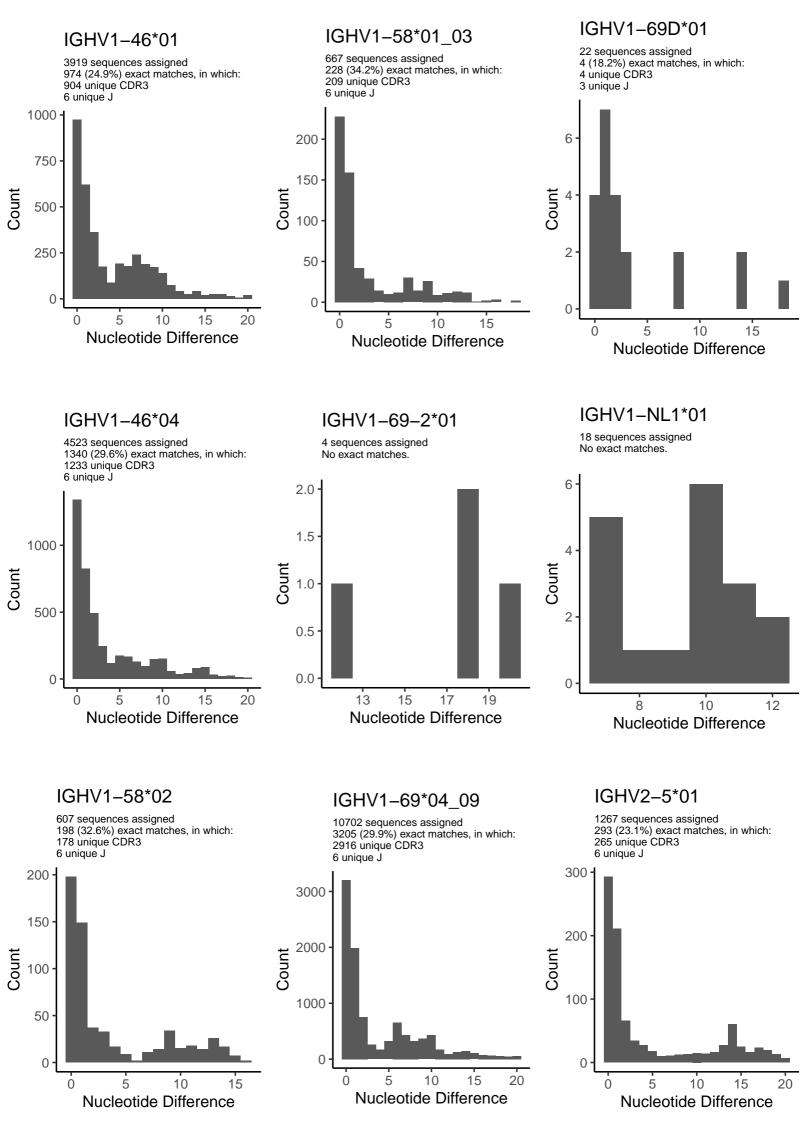
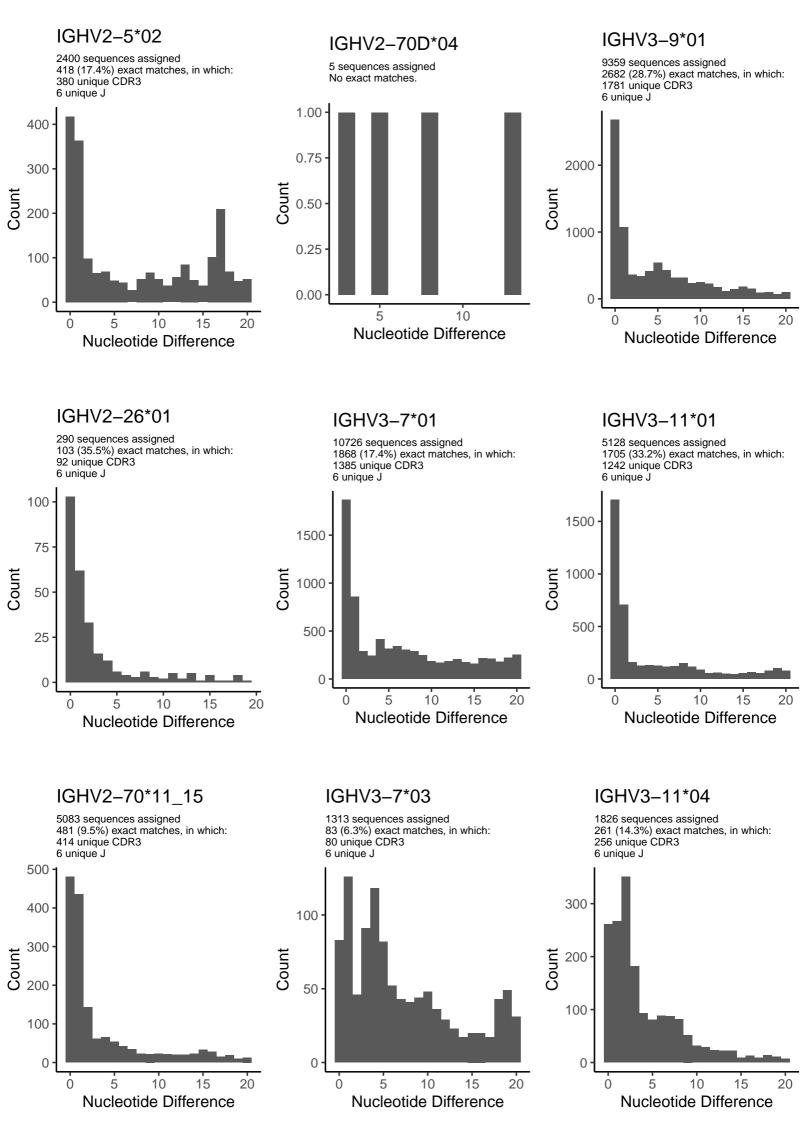
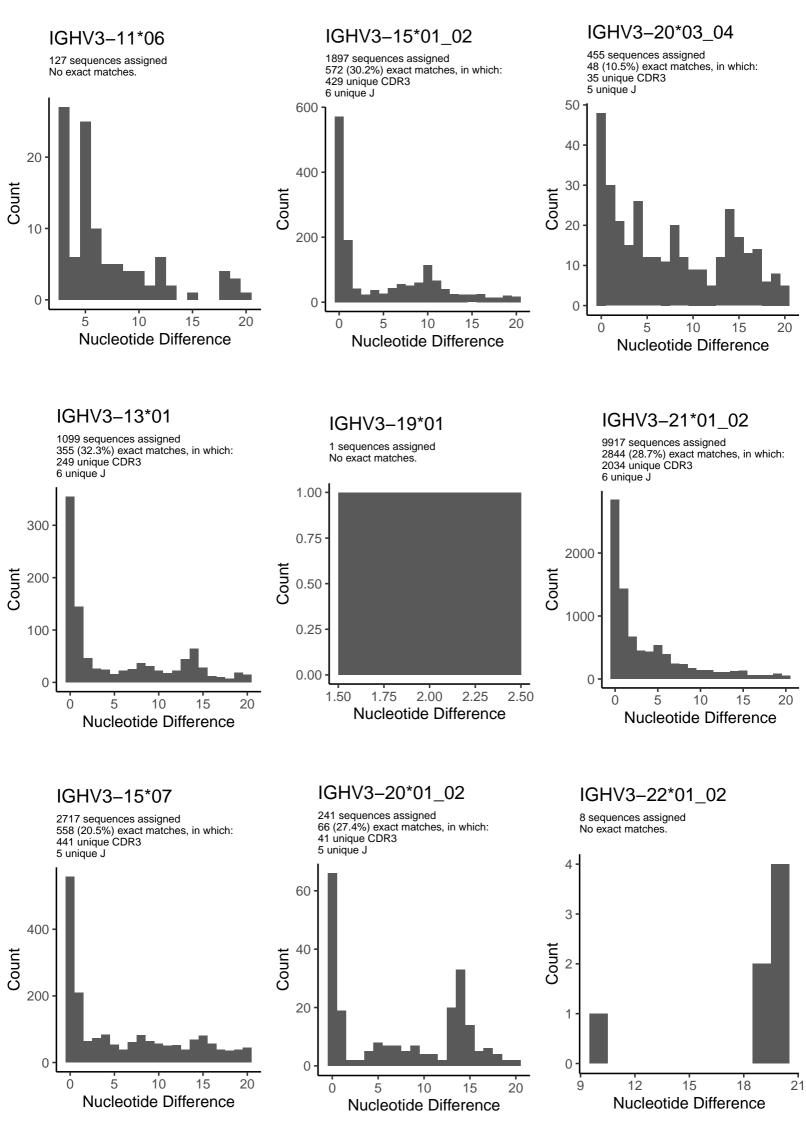
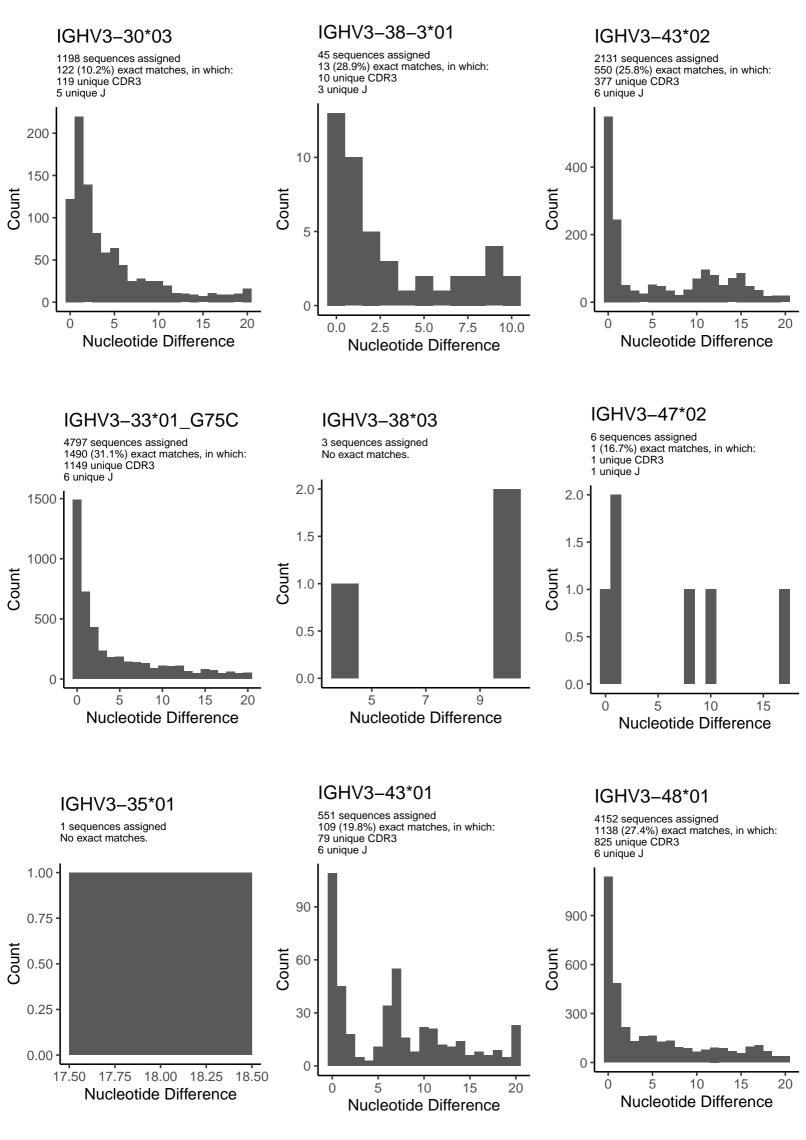


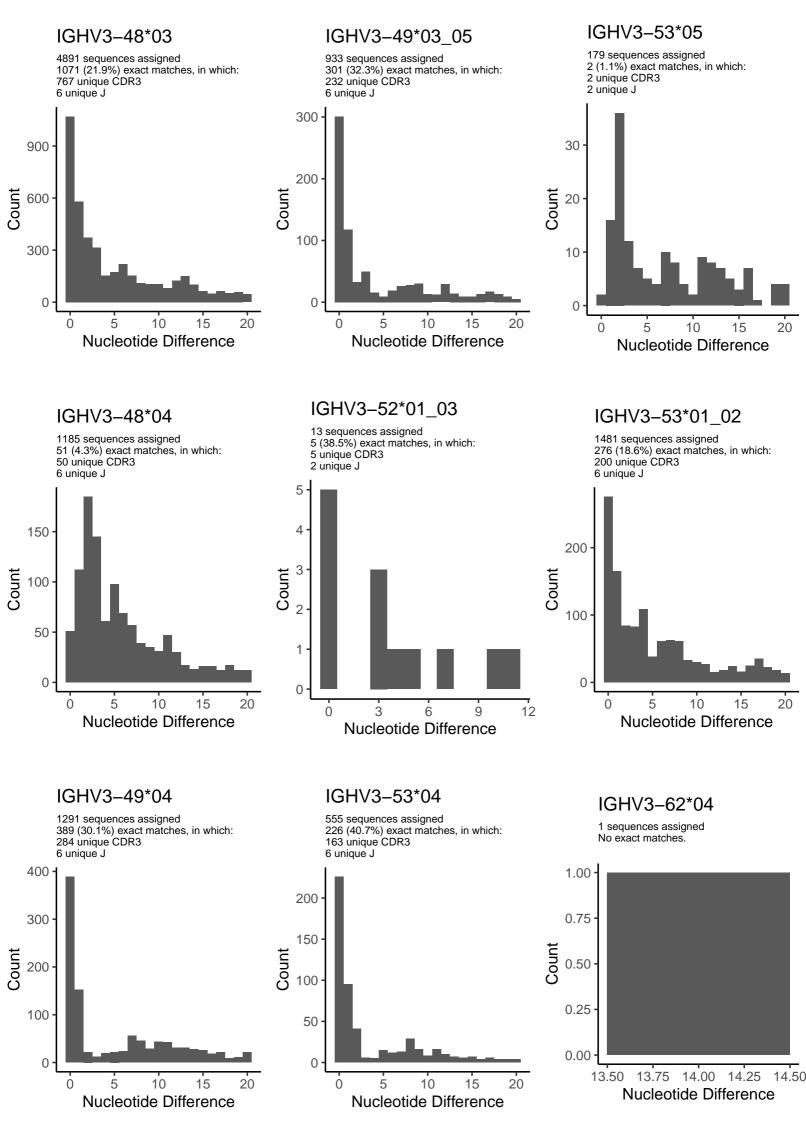
## IGHV1-24\*01 IGHV1-2\*02 IGHV1-8\*01 3079 sequences assigned 12139 sequences assigned 2539 (20.9%) exact matches, in which: 9726 sequences assigned 1066 (34.6%) exact matches, in which: 2946 (30.3%) exact matches, in which: 967 unique CDR3 2291 unique CDR3 2643 unique CDR3 6 unique J 6 unique J 6 unique J 3000 900 2000 2000 Count Count 600 1000 1000 300 0 0 0 0 10 15 0 10 15 5 10 15 20 0 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-38-4\*01 IGHV1-2\*04 IGHV1-8\*02 2 sequences assigned 2340 sequences assigned 851 (36.4%) exact matches, in which: 2449 sequences assigned 13 (0.5%) exact matches, in which: 2 (100%) exact matches, in which: 2 unique CDR3 13 ùniqué CDR3 793 unique CDR3 1 unique J 6 unique J 4 unique J 500 -2.0 800 400 1.5 600 300 Count 1.0 400 200 0.5 200 100 0 0 0.0 20 20 10 15 10 15 0.50 0 0 5 -0.250.25 -0.500.00 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference IGHV1-45\*02 IGHV1-3\*01\_05 IGHV1-18\*01 44 sequences assigned 3472 sequences assigned 17034 sequences assigned 4112 (24.1%) exact matches, in which: 11 (25%) exact matches, in which: 779 (22.4%) exact matches, in which: 11 unique CDR3 707 unique CDR3 3620 unique CDR3 4 unique J 6 unique J 6 unique J 800 4000 9 600 3000 Count Month 6 2000 200 1000 3 0 0 0 10 15 20 10 15 20 15 0 10 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

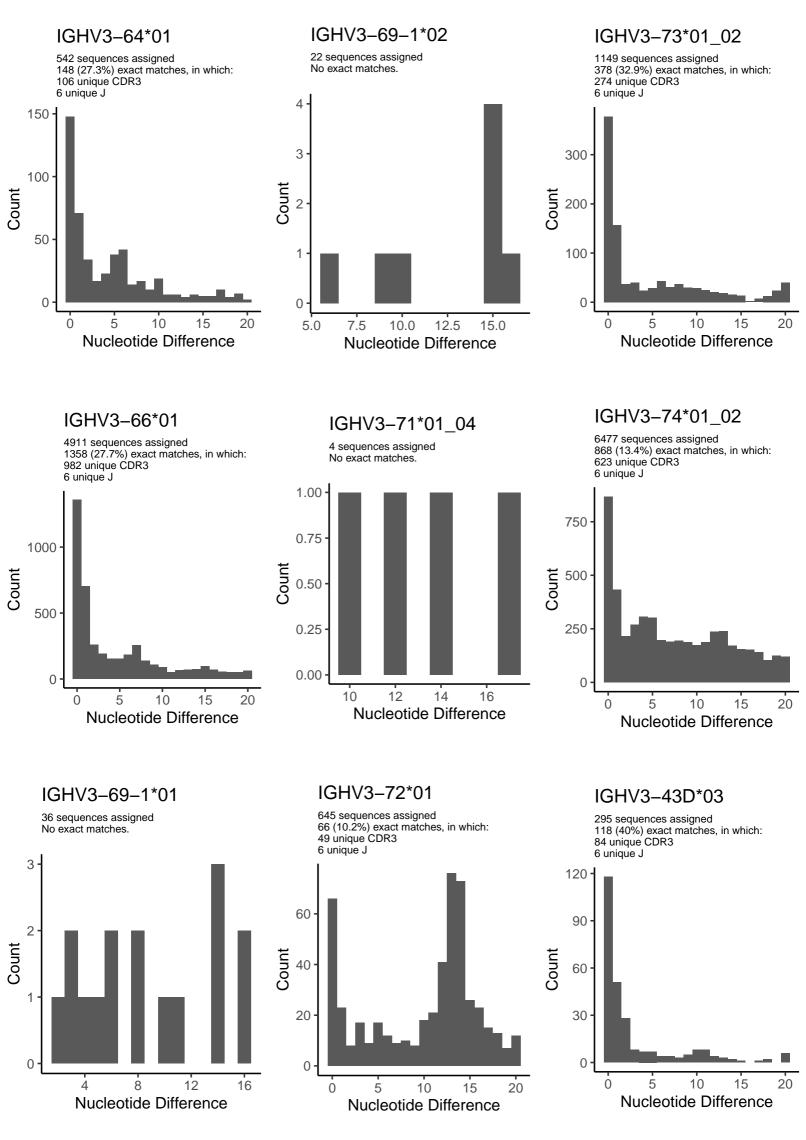


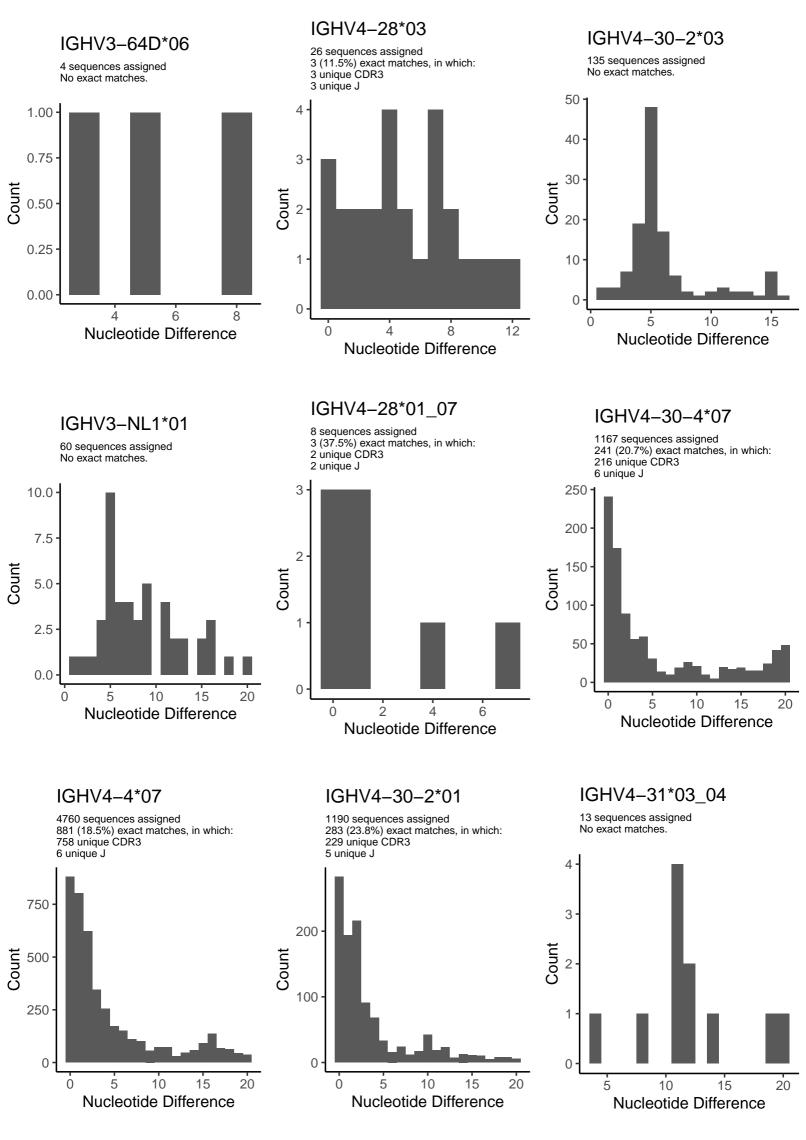


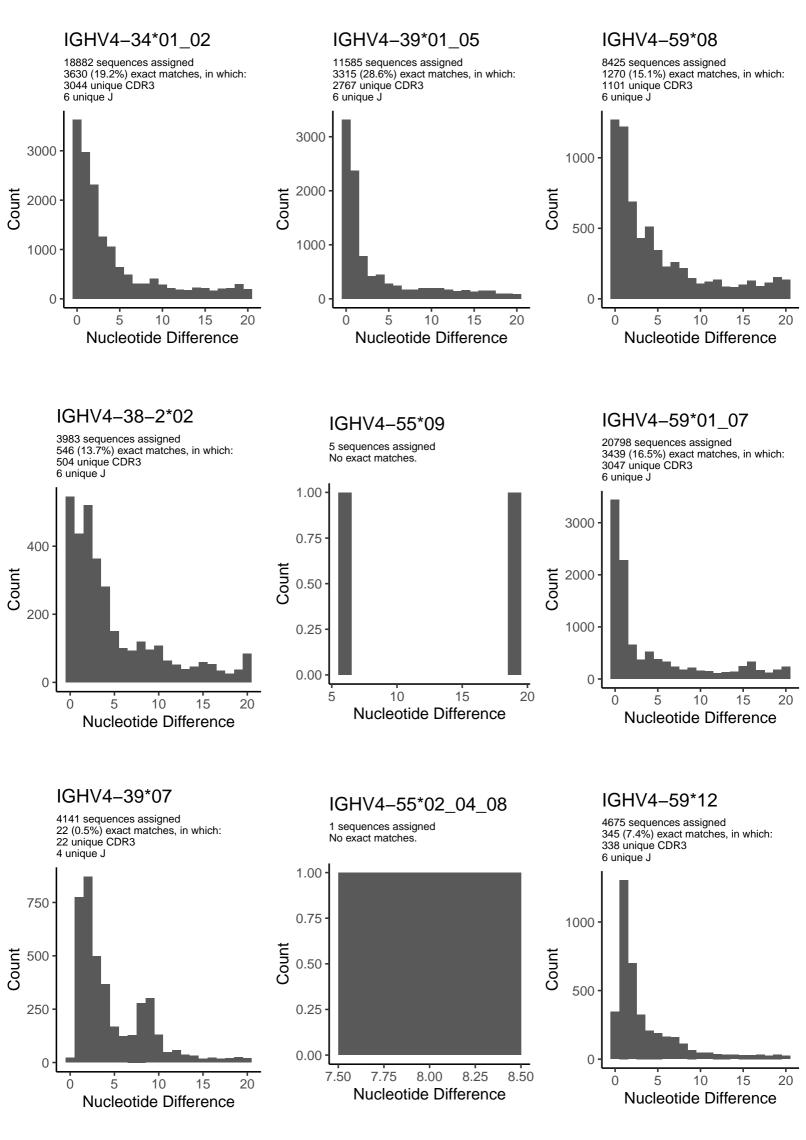












## IGHV4-61\*01 IGHV5-51\*01\_03 2666 sequences assigned 12790 sequences assigned 4255 (33.3%) exact matches, in which: 579 (21.7%) exact matches, in which: 547 unique CDR3 2434 unique CDR3 6 unique J 6 unique J 600 4000 3000 400 Count 2000 200 1000 0 0 0 10 15 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference** IGHV6-1\*01\_02 IGHV4-61\*05 1206 sequences assigned 305 (25.3%) exact matches, in which: 898 sequences assigned No exact matches. 272 unique CDR3 6 unique J 200 300 150 200 Count 100 100 50 0 5 10 15 5 10 15 20 0 **Nucleotide Difference Nucleotide Difference** IGHV4-61\*08 IGHV7-4-1\*01 651 sequences assigned 38 sequences assigned 1 (0.2%) exact matches, in which: 21 (55.3%) exact matches, in which: 1 unique CDR3 18 unique CDR3 1 unique J 4 unique J 20 60 15 Count 10 20 5 0 0

0

10

Nucleotide Difference

15

20

0

8

Nucleotide Difference



Novel sequence(s) IGHV3-33\*01\_G75C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-33\*01\_G75C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV3-30\*03\_T288C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning - no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s) IGHV1-69\*04\_09\_G112A IGHV4-59\*02\_G88A IGHV5-10-1\*01\_03\_T258C IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV1-69\*08\_C191T IGHV3-48\*03\_T303G IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning - no inferred sequences found.

Novel sequence(s) IGHV3-30\*03\_T288C IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning: IGHV4-31\*02, IGHV4-31\*03\_04 have identical germline sequences.

Novel sequence(s) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV1-69\*04\_09\_G112A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Warning - no inferred sequences found.

Novel sequence(s) IGHV1-69\*08\_C191T IGHV3-30\*03\_T288C IGHV3-30-3\*02\_G75C IGHV4-59\*02\_G88A IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59\*02\_G88A IGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4-4\*02\_03\_C300T IGHV5-51\*07\_A128G are not listed in the genotype and will be ignored.