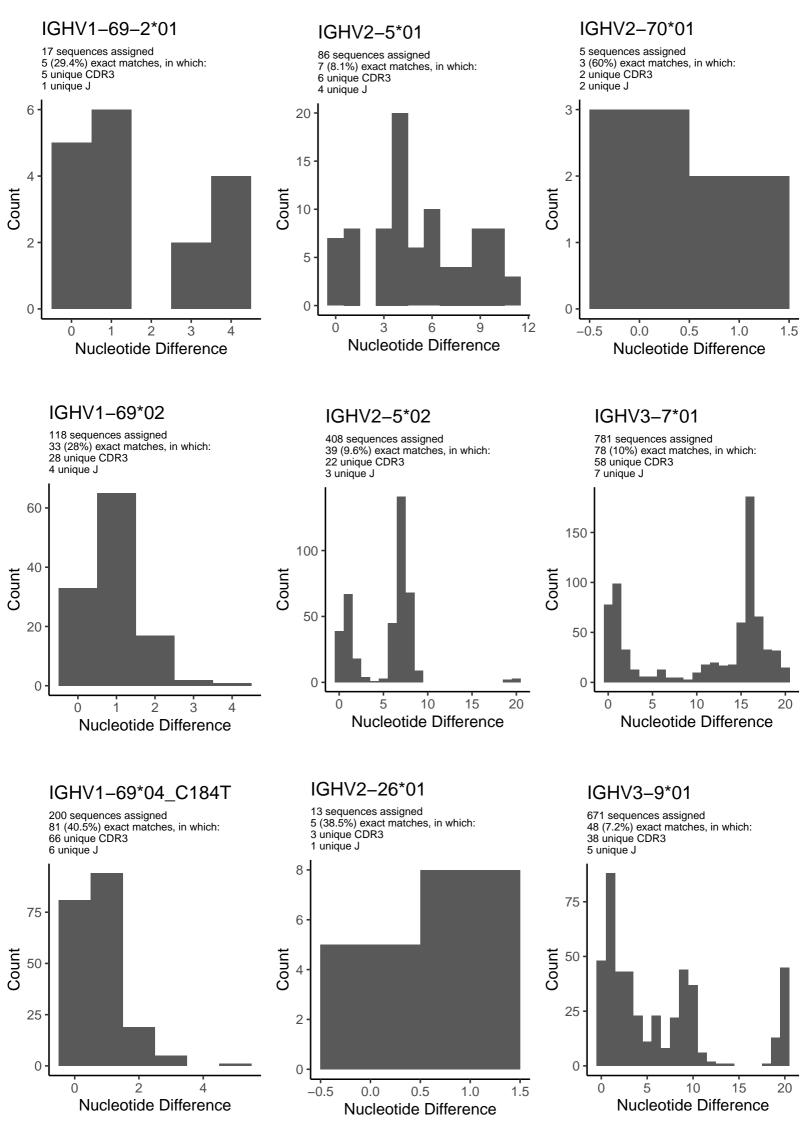
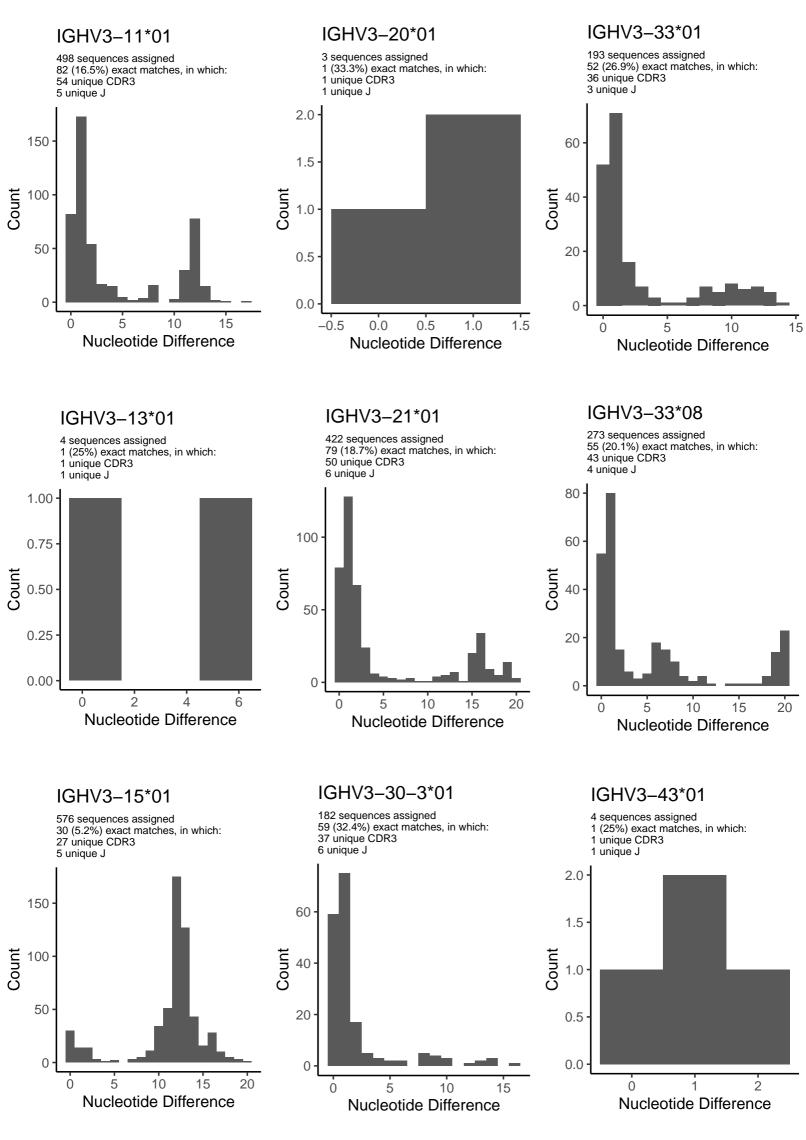
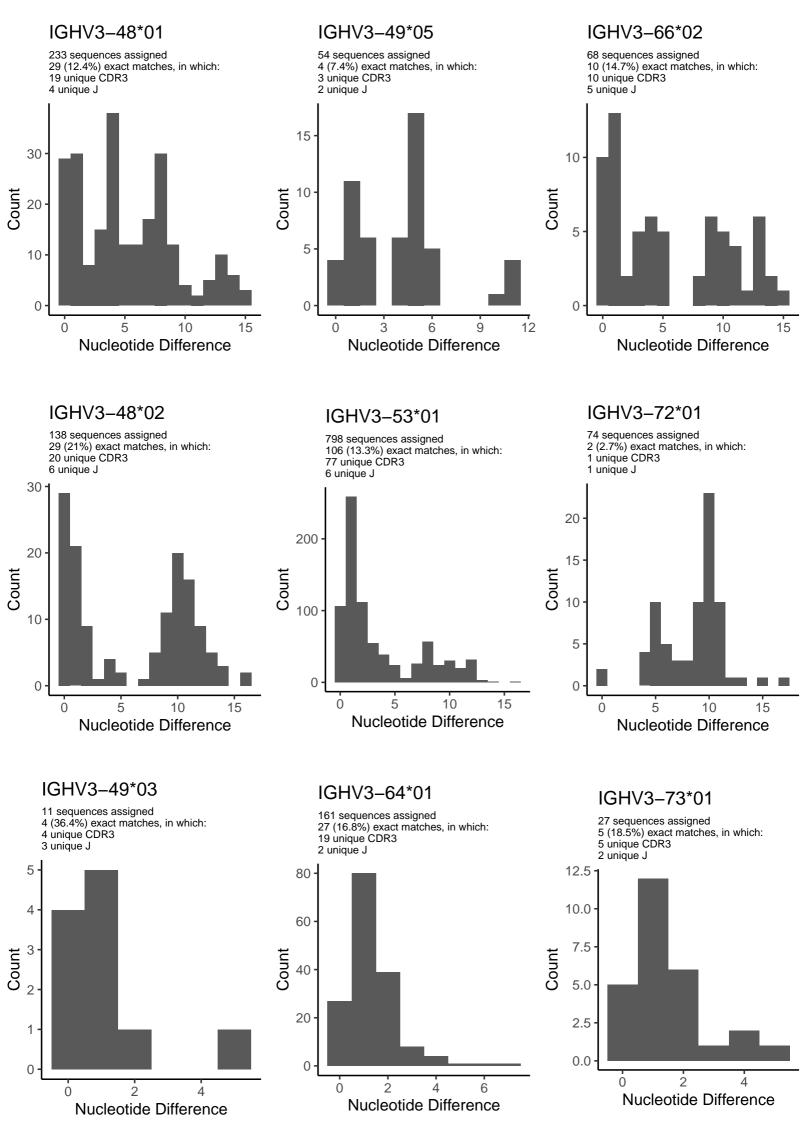
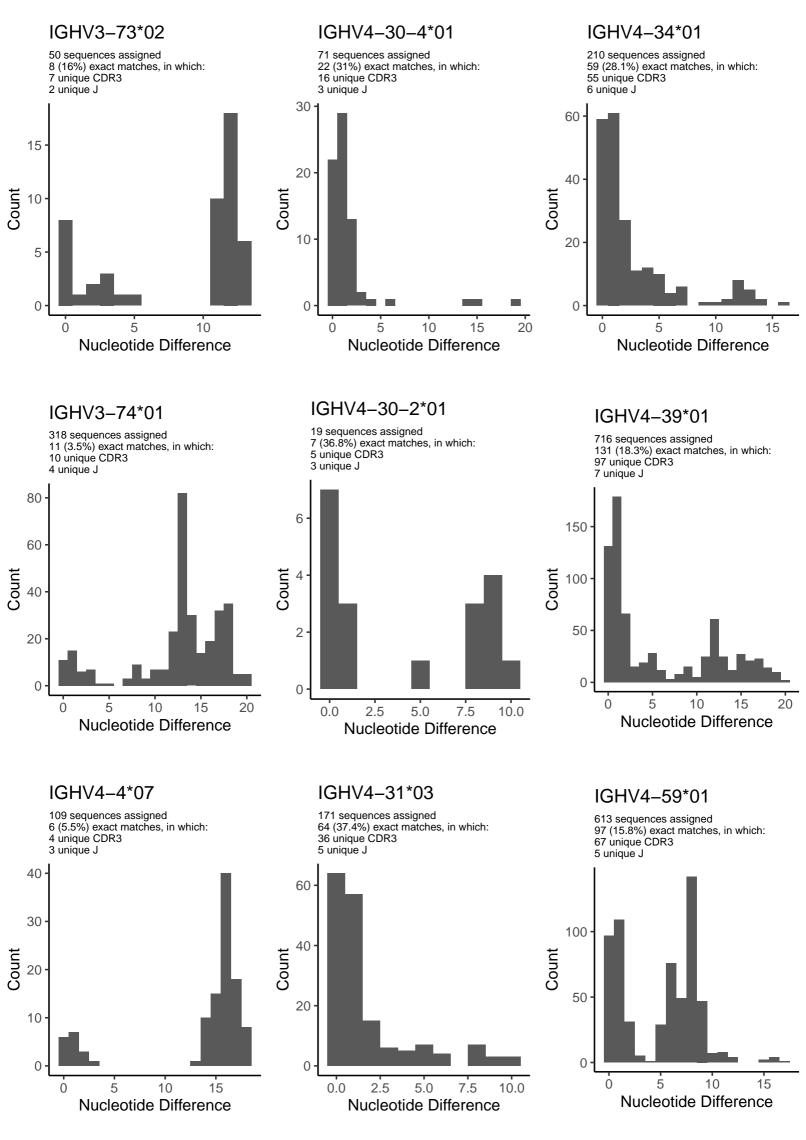
## IGHV1-2\*02 IGHV1-46\*03 IGHV1-18\*01 392 sequences assigned 48 (12.2%) exact matches, in which: 51 sequences assigned 570 sequences assigned 16 (31.4%) exact matches, in which: 132 (23.2%) exact matches, in which: 10 unique CDR3 33 unique CDR3 87 unique CDR3 4 unique J 2 unique J 7 unique J 15 150 40 Count Count Count 100 20 5 50 0 0 0 5 10 15 20 0 0 10 15 10 0 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV1-58\*01 IGHV1-3\*01 IGHV1-24\*01 12 sequences assigned 4 (33.3%) exact matches, in which: 3 unique CDR3 213 sequences assigned 60 sequences assigned 22 (36.7%) exact matches, in which: 47 (22.1%) exact matches, in which: 20 unique CDR3 28 unique CDR3 2 unique J 4 unique J 5 unique J 50 20 6 40 15 Count 30 Count 10 20 2 5 10 0 0 0 10 2 3 0 15 0 2 0 3 Nucleotide Difference **Nucleotide Difference Nucleotide Difference** IGHV1-58\*02 IGHV1-46\*01 IGHV1-8\*01 15 sequences assigned 6 (40%) exact matches, in which: 231 sequences assigned 414 sequences assigned 114 (27.5%) exact matches, in which: 40 (17.3%) exact matches, in which: 4 unique CDR3 24 unique CDR3 83 unique CDR3 3 unique J 5 unique J 6 unique J 60 150 6 40 100 4 50 20 2 0 0 0 2.5 5.0 7.5 0.0 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

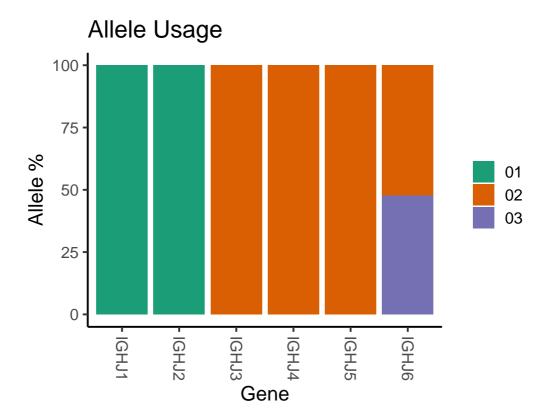








## IGHV4-61\*01 IGHV5-51\*03 99 sequences assigned 28 (28.3%) exact matches, in which: 23 unique CDR3 4 unique J 41 sequences assigned 12 (29.3%) exact matches, in which: 7 unique CDR3 2 unique J 15 20 Count 10 5 0 0 2 0 3 6 Nucleotide Difference Nucleotide Difference IGHV4-61\*02 IGHV6-1\*01 262 sequences assigned 59 (22.5%) exact matches, in which: 35 unique CDR3 6 unique J 297 sequences assigned 32 (10.8%) exact matches, in which: 18 unique CDR3 4 unique J 60 60 40 40 Count 20 20 0 0 0 10 15 20 0 5 10 15 Nucleotide Difference Nucleotide Difference IGHV5-51\*01 IGHV7-4-1\*02 498 sequences assigned 900 sequences assigned 53 (5.9%) exact matches, in which: 35 (7%) exact matches, in which: 31 unique CDR3 32 uniqué CDR3 4 unique J 6 unique J 150 100 Count 20 50 0 0 5 10 15 20 0 10 5 15 20 Nucleotide Difference Nucleotide Difference



## Sequence Count by IGHJ6 allele usage

