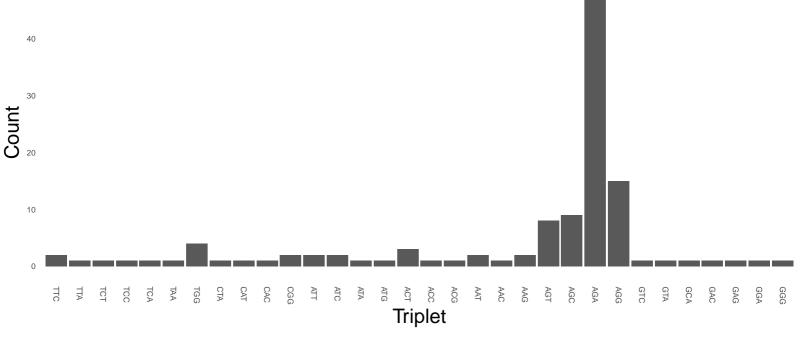
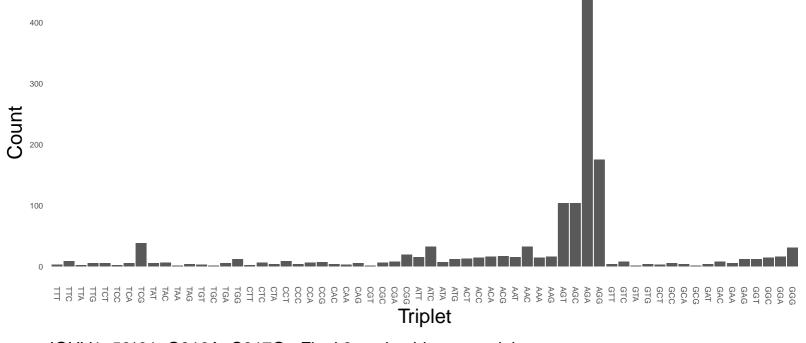


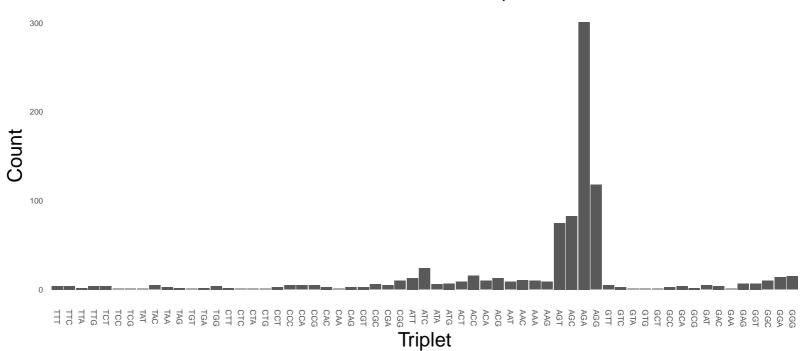
IGHV1-3*02_T296C_T300C- Final 3 nucleotides as a triplet



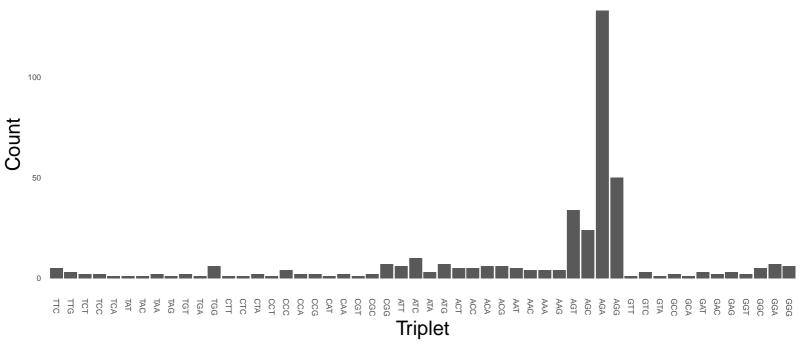
IGHV1-24*01_A315G_C317G- Final 3 nucleotides as a triplet



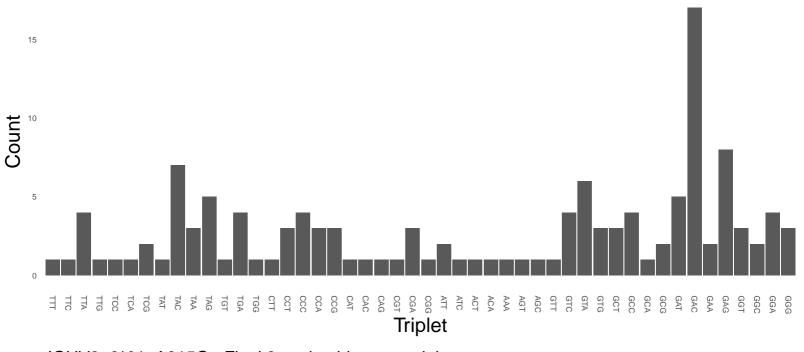
IGHV1-58*01_G316A_C317G- Final 3 nucleotides as a triplet



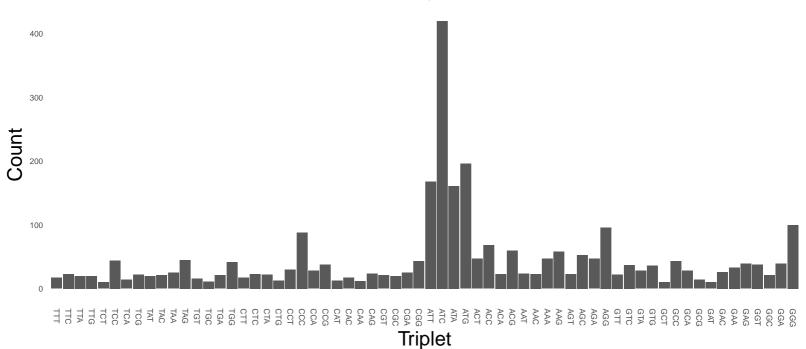
IGHV1-69-2*01_A315G_C317G- Final 3 nucleotides as a triplet



IGHV2-70*01_G303A- Final 3 nucleotides as a triplet

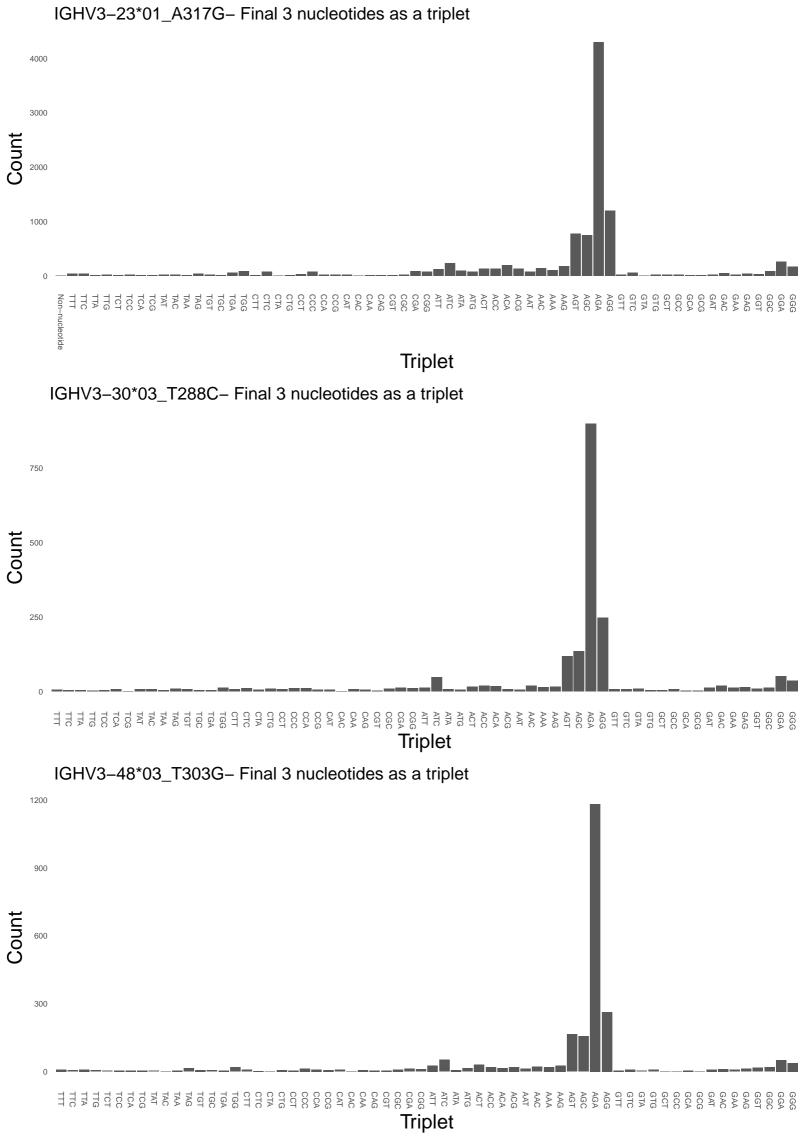


IGHV3-9*01_A315G- Final 3 nucleotides as a triplet

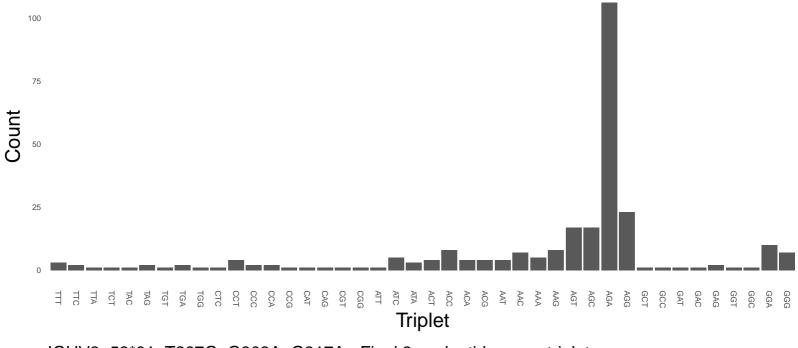


IGHV3-13*01_A315G- Final 3 nucleotides as a triplet 150 Count GGC GGT GAA GAC GAT GCC GTC CGG **Triplet** IGHV3-13*04_A315G- Final 3 nucleotides as a triplet 150 100 Count ACA
ACC
ACT
ATG
ATA
ATC GAT GCG AGG AGA **Triplet** IGHV3-20*04_T279C_C300T_T301G- Final 3 nucleotides as a triplet 200 150 50

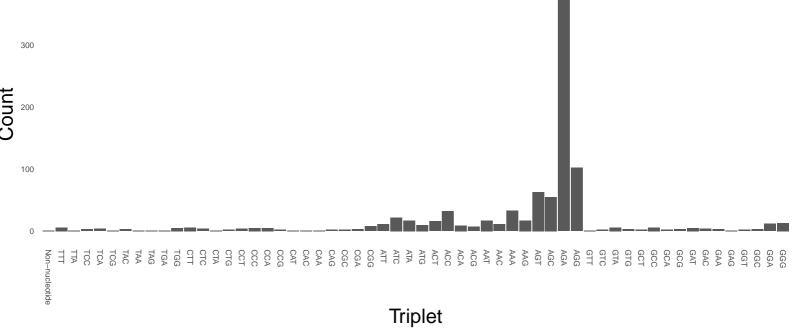
Triplet



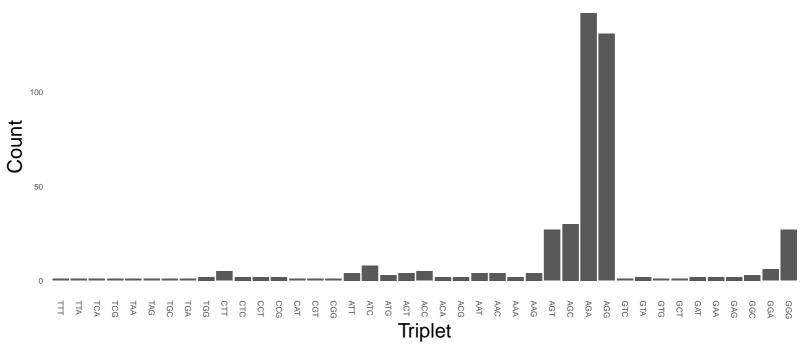
IGHV3-49*05_A313G_T315G- Final 3 nucleotides as a triplet



IGHV3-53*01_T267G_G303A_G317A- Final 3 nucleotides as a triplet

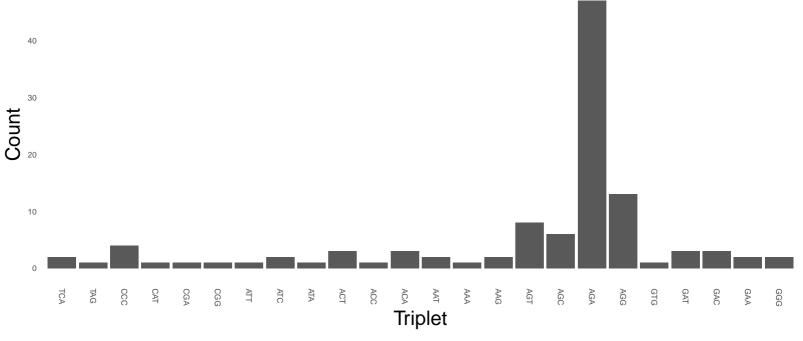


IGHV3-64D*06_T314C- Final 3 nucleotides as a triplet

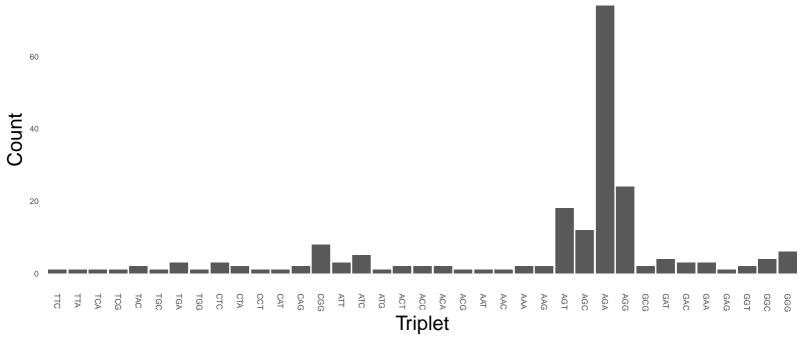


IGHV3-66*03_T175G_T267G- Final 3 nucleotides as a triplet 300 100 **Triplet** IGHV3-73*02_A313G_T315G- Final 3 nucleotides as a triplet 300 **Triplet** IGHV3-74*01_A315G- Final 3 nucleotides as a triplet 300 100

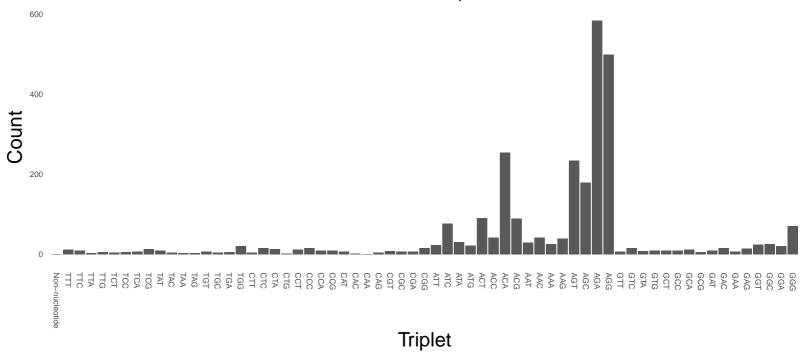
Triplet



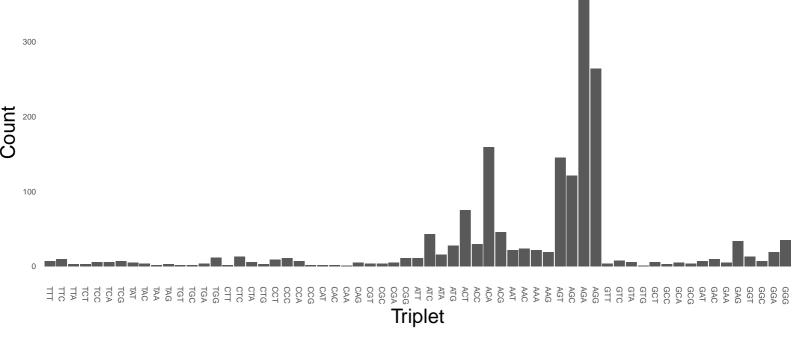
IGHV3-NL1*01_G49A_G75C_T201C_G267T_T288C_T300C_A317G- Final 3 nucleotides as a trip



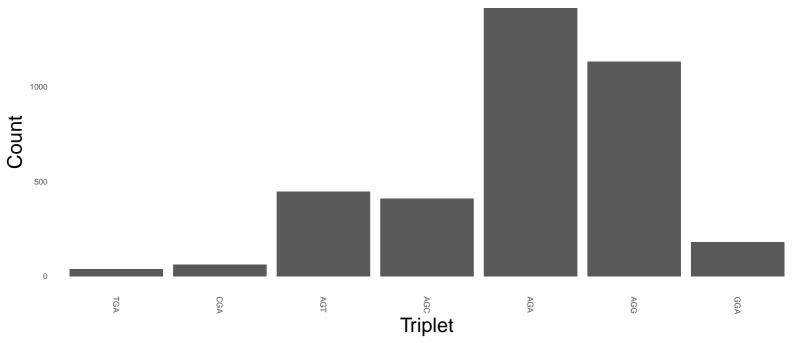
IGHV4-30-2*01_C315G- Final 3 nucleotides as a triplet



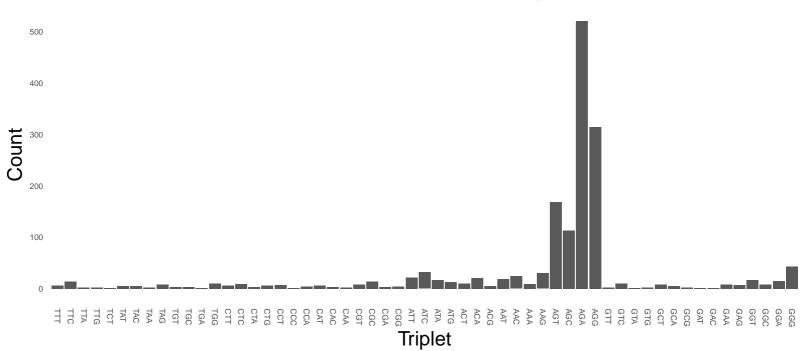
IGHV4-30-4*01_C315G- Final 3 nucleotides as a triplet



IGHV4-39*02_C258G- Final 3 nucleotides as a triplet

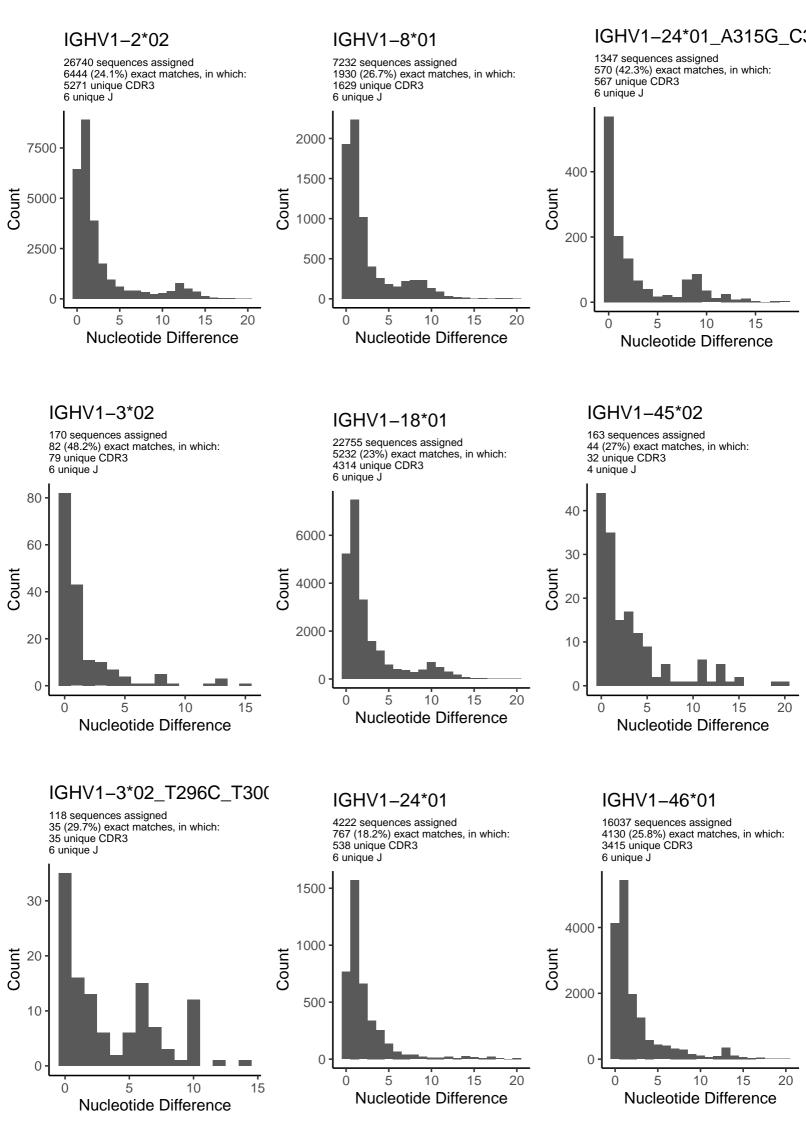


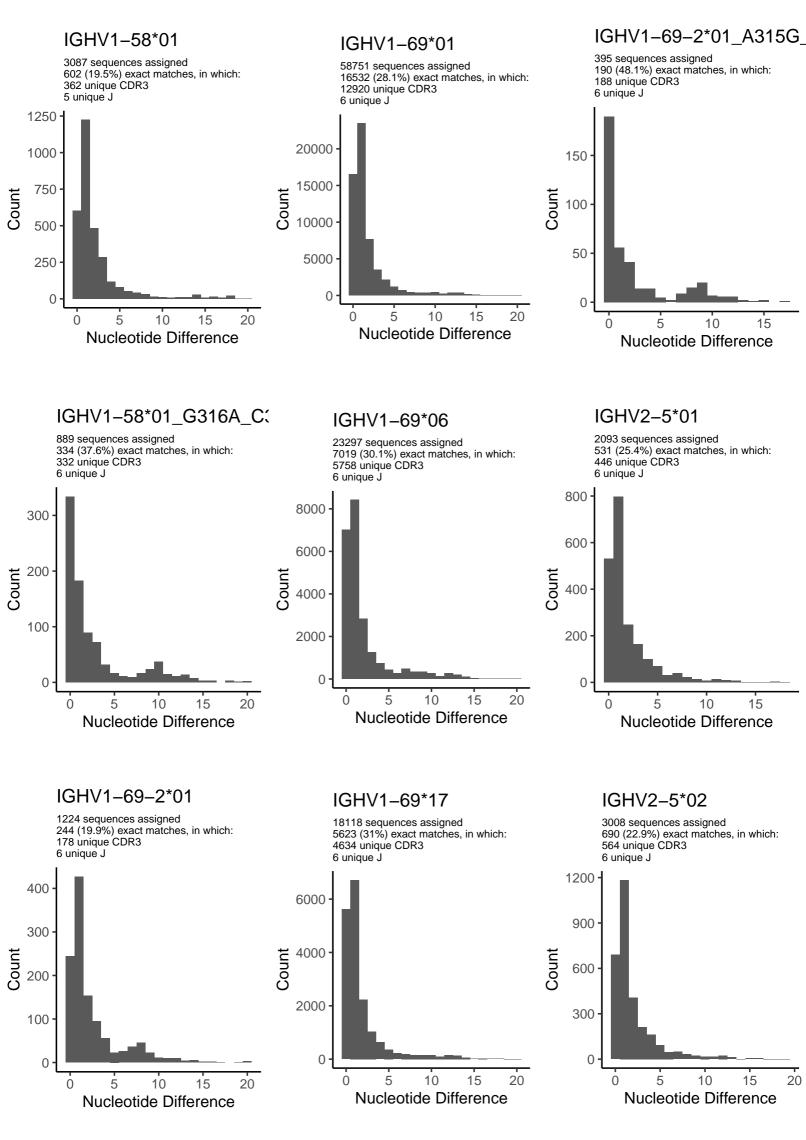
IGHV4-61*08_G48A_G49C_G88A- Final 3 nucleotides as a triplet

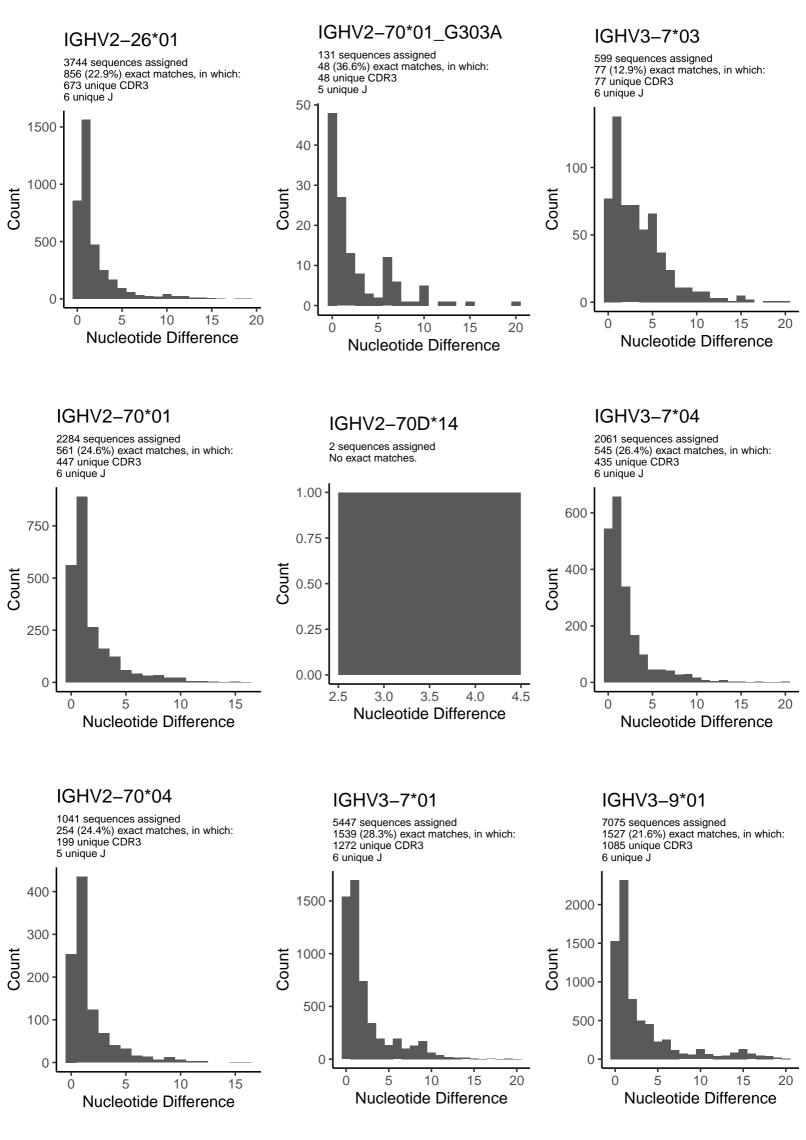


IGHV6–1*01_A315G– Final 3 nucleotides as a triplet

Triplet







IGHV3-9*01_A315G IGHV3-13*04 IGHV3-11*05 2843 sequences assigned 494 (17.4%) exact matches, in which: 969 sequences assigned 7514 sequences assigned 250 (25.8%) exact matches, in which: 2146 (28.6%) exact matches, in which: 494 unique CDR3 182 unique CDR3 1679 unique CDR3 6 unique J 5 unique J 6 unique J 500 -2500 300 400 2000 300 1500 Count 200 200 1000 100 500 100 0 0 0 0 10 15 20 5 10 15 20 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV3-13*01 A315G IGHV3-11*06 IGHV3-11*01 371 sequences assigned 1440 sequences assigned 7048 sequences assigned 2049 (29.1%) exact matches, in which: 75 (20.2%) exact matches, in which: 295 (20.5%) exact matches, in which: 75 unique CDR3 295 unique CDR3 1669 unique CDR3 6 unique J 6 unique J 6 unique J 2500 300 2000 60 200 1500 Count 40 1000 100 20 500 0 0 0 10 15 20 20 5 10 15 0 0 10 15 Nucleotide Difference **Nucleotide Difference** Nucleotide Difference IGHV3-13*04 A315G IGHV3-11*04 IGHV3-13*01 296 sequences assigned 1309 sequences assigned 1279 sequences assigned 65 (22%) exact matches, in which: 230 (17.6%) exact matches, in which: 262 (20.5%) exact matches, in which: 65 unique CDR3 191 unique CDR3 229 unique CDR3 6 unique J 6 unique J 5 unique J 400 60 200 300 40 Count Count 200 100 20 100 0 0 0 20 10 15 20 10 15 0 10 **Nucleotide Difference Nucleotide Difference** Nucleotide Difference

