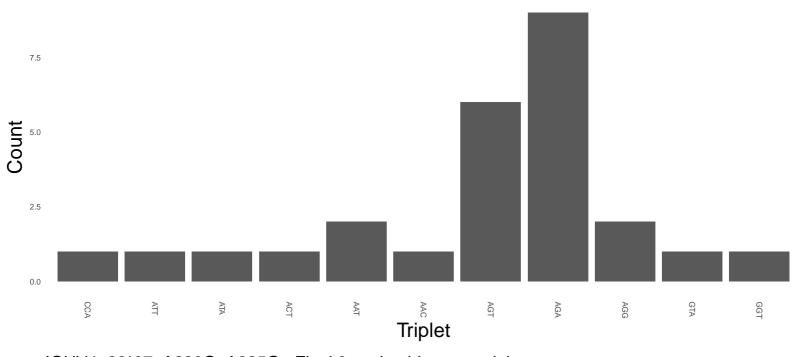
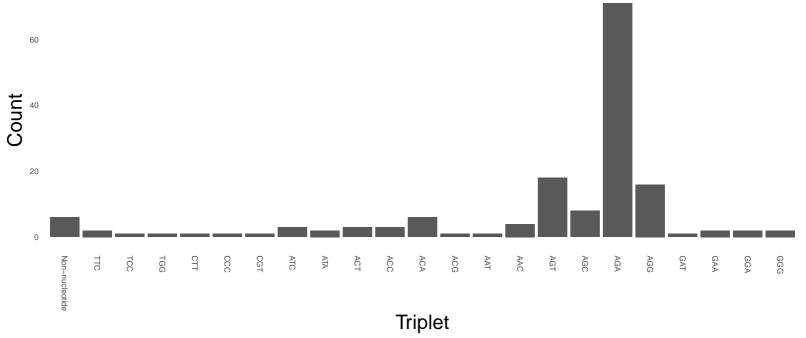


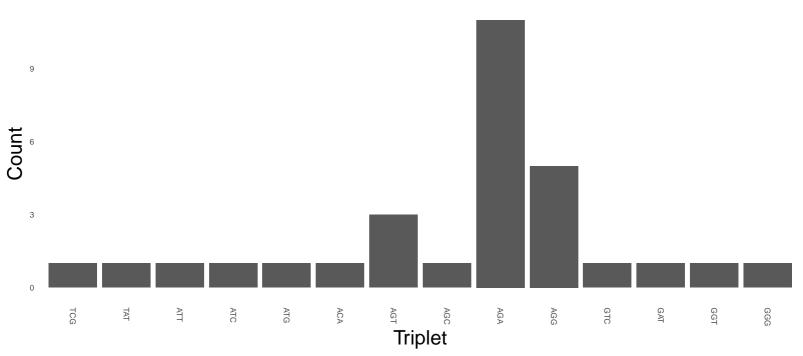
IGHV4-4*02_A220G_A225G- Final 3 nucleotides as a triplet



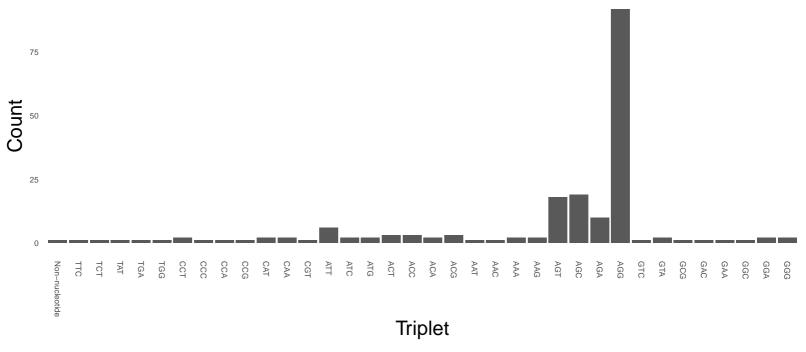
IGHV4-39*07_A220G_A225G- Final 3 nucleotides as a triplet



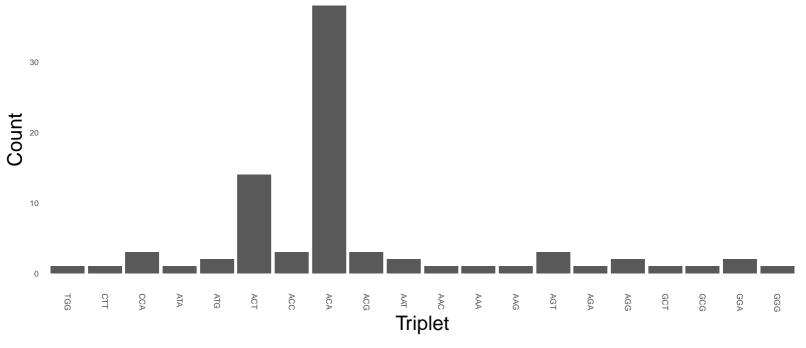
IGHV7-4-1*02_A200T- Final 3 nucleotides as a triplet



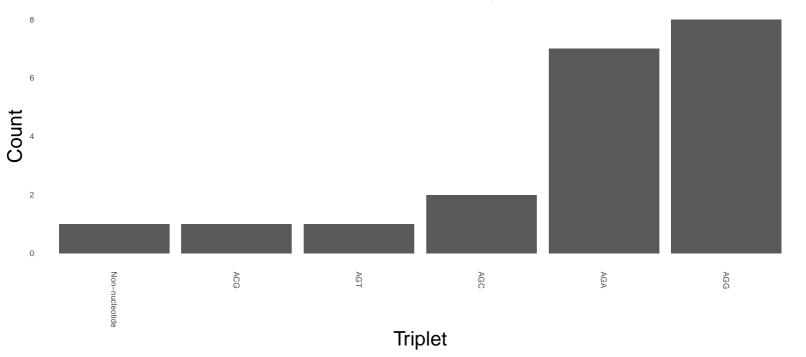
IGHV4-34*01_A220G_A225G- Final 3 nucleotides as a triplet

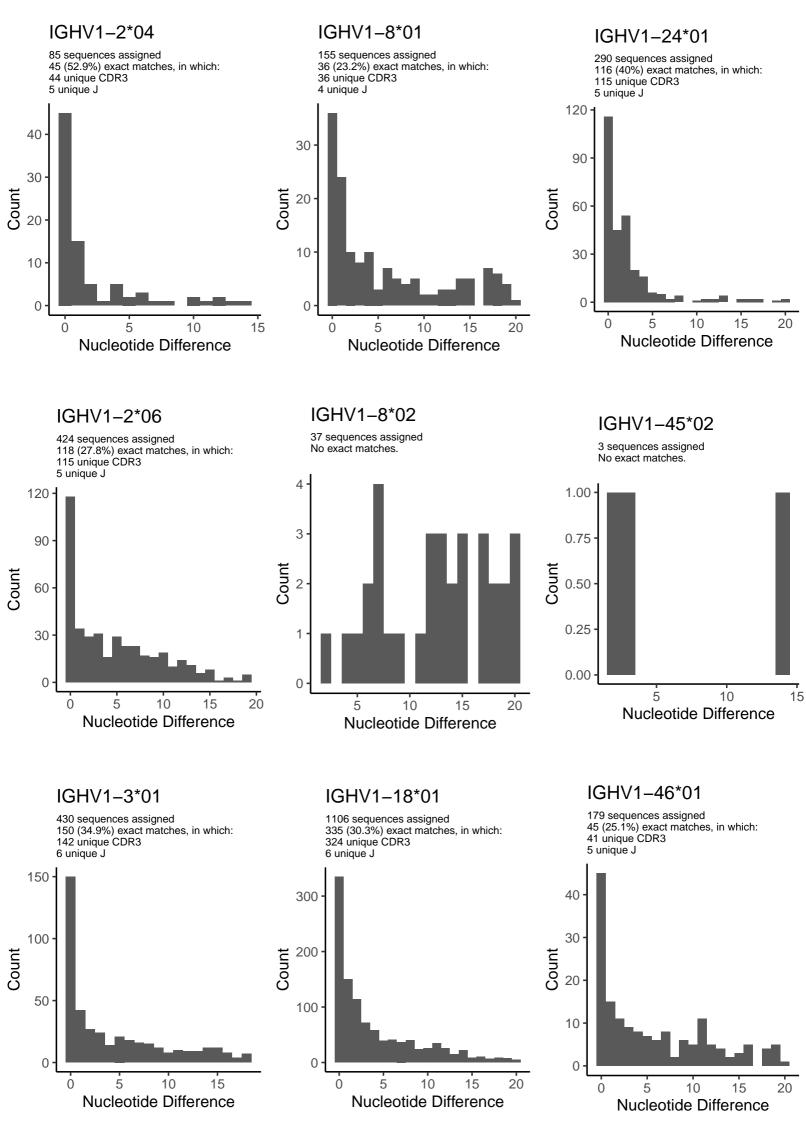


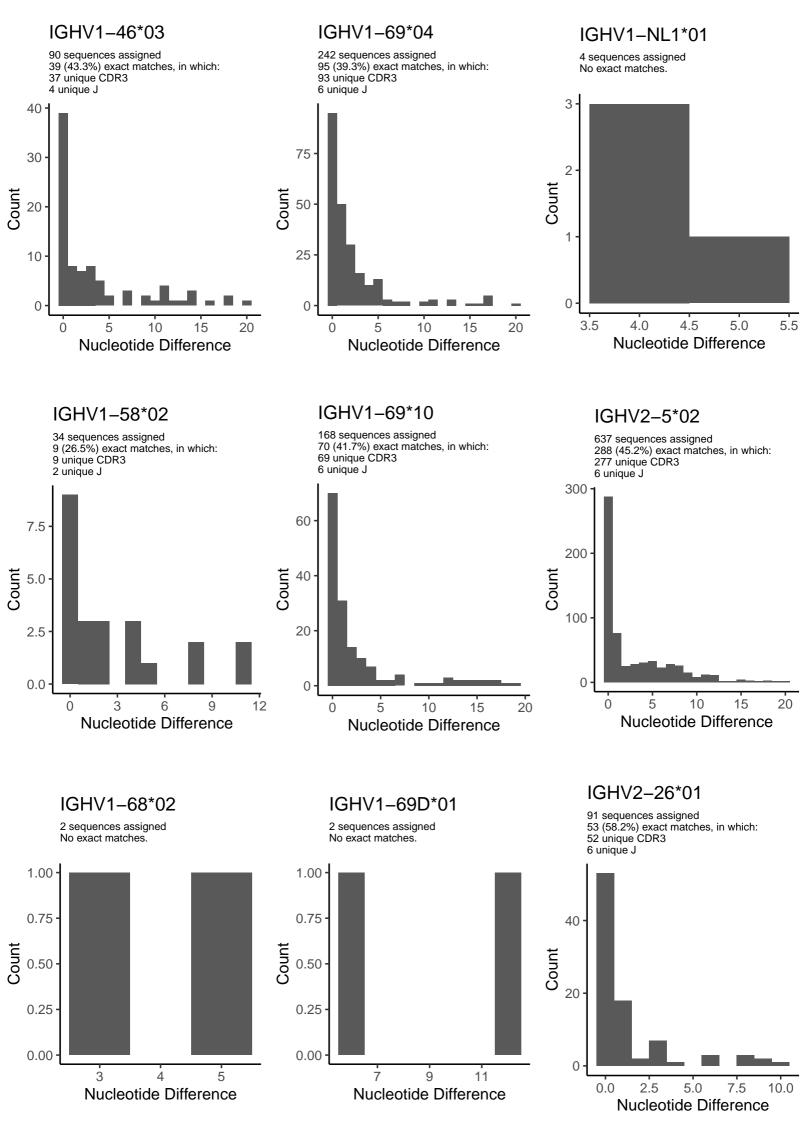
IGHV4-59*08_A220G- Final 3 nucleotides as a triplet

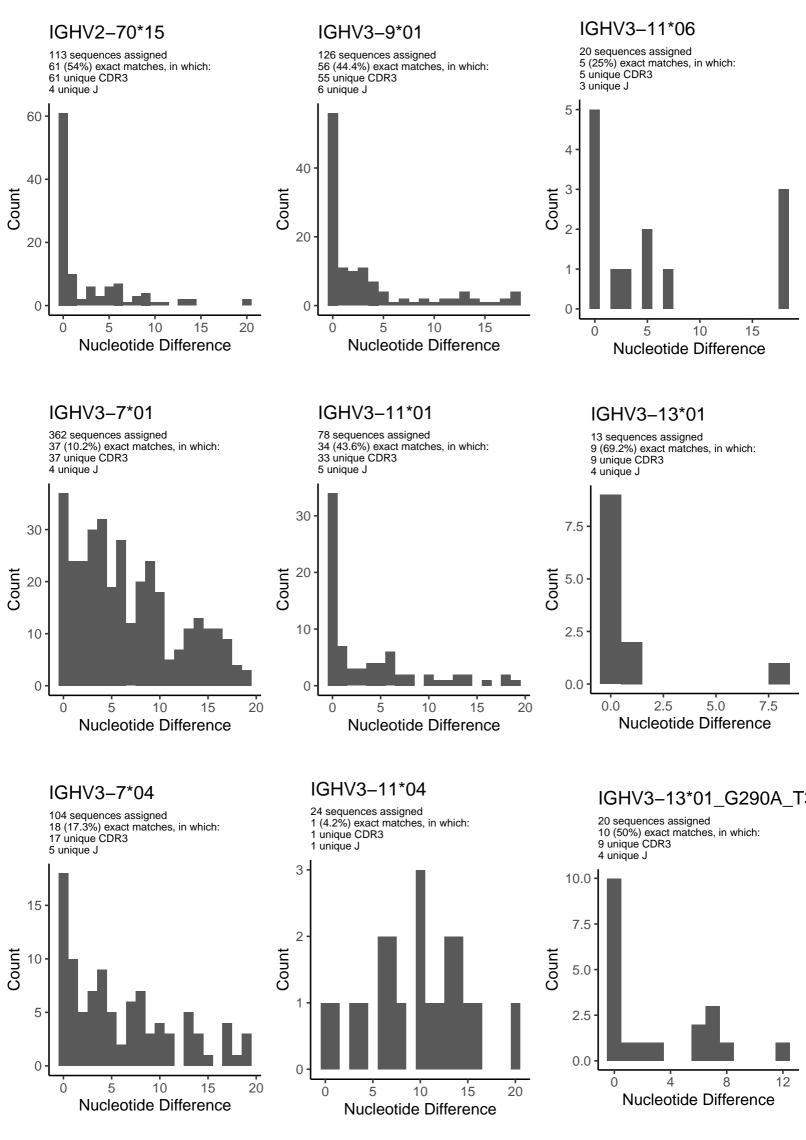


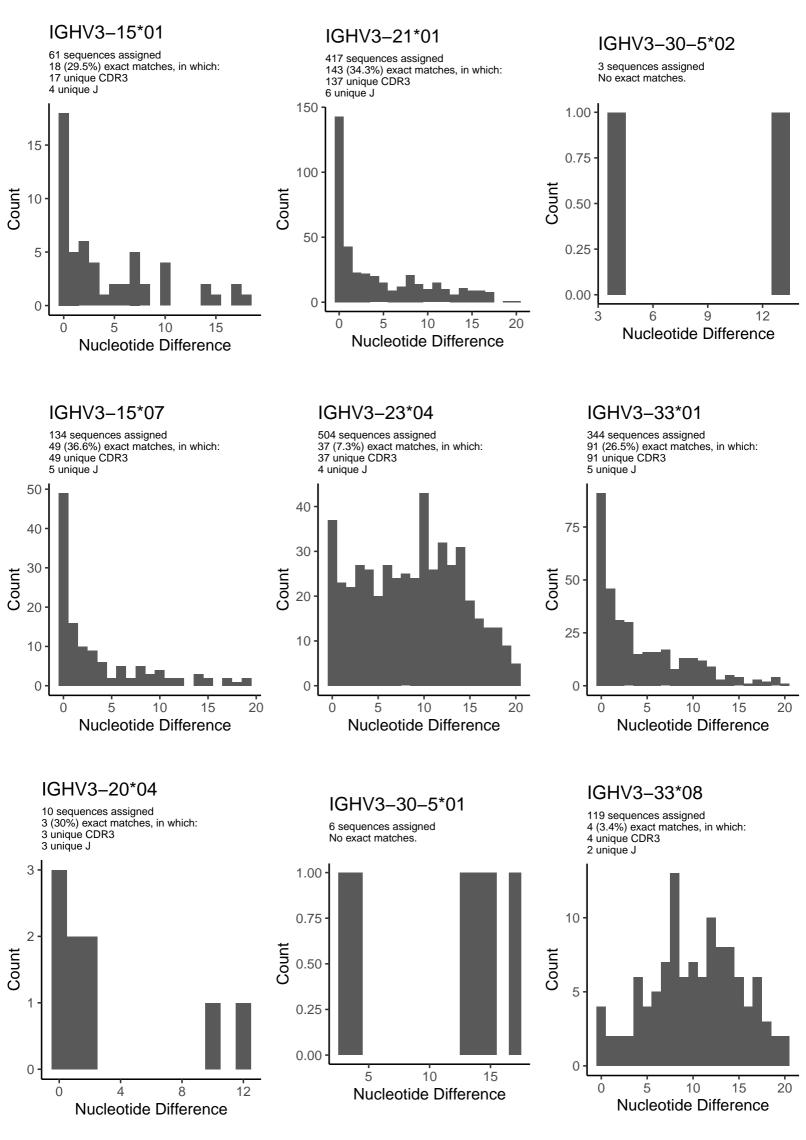
IGHV3-13*01_G290A_T300C- Final 3 nucleotides as a triplet

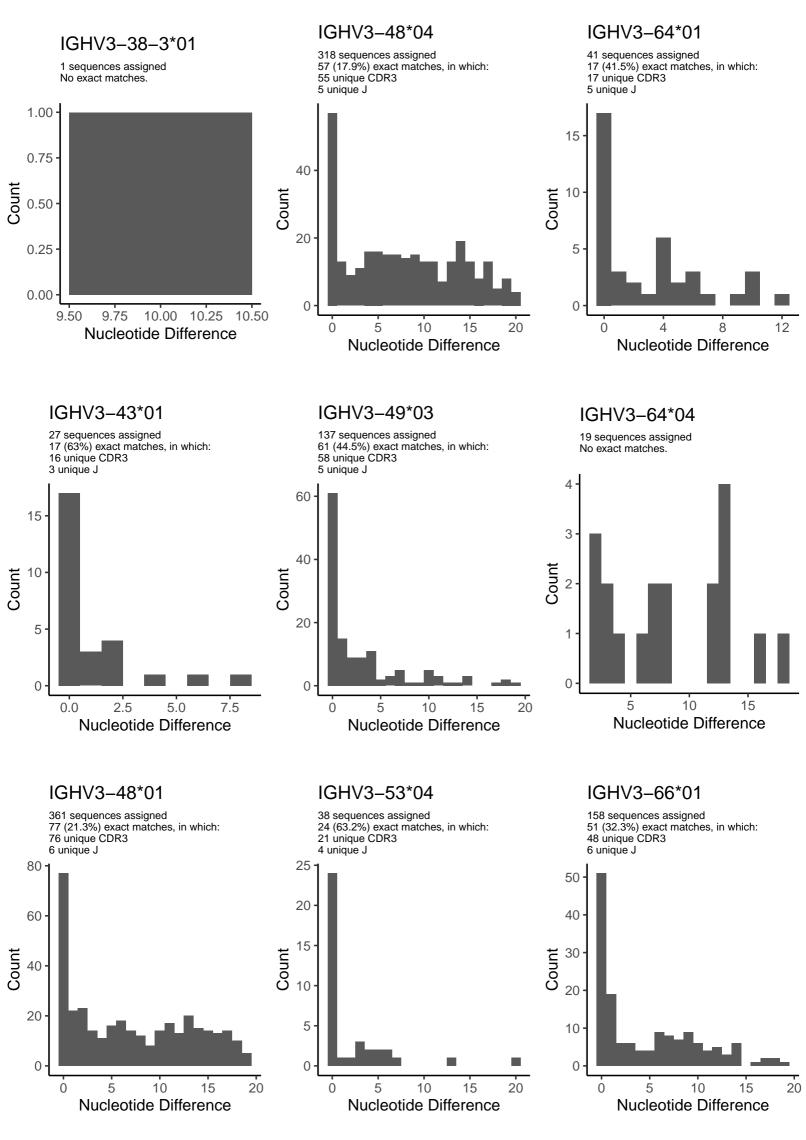


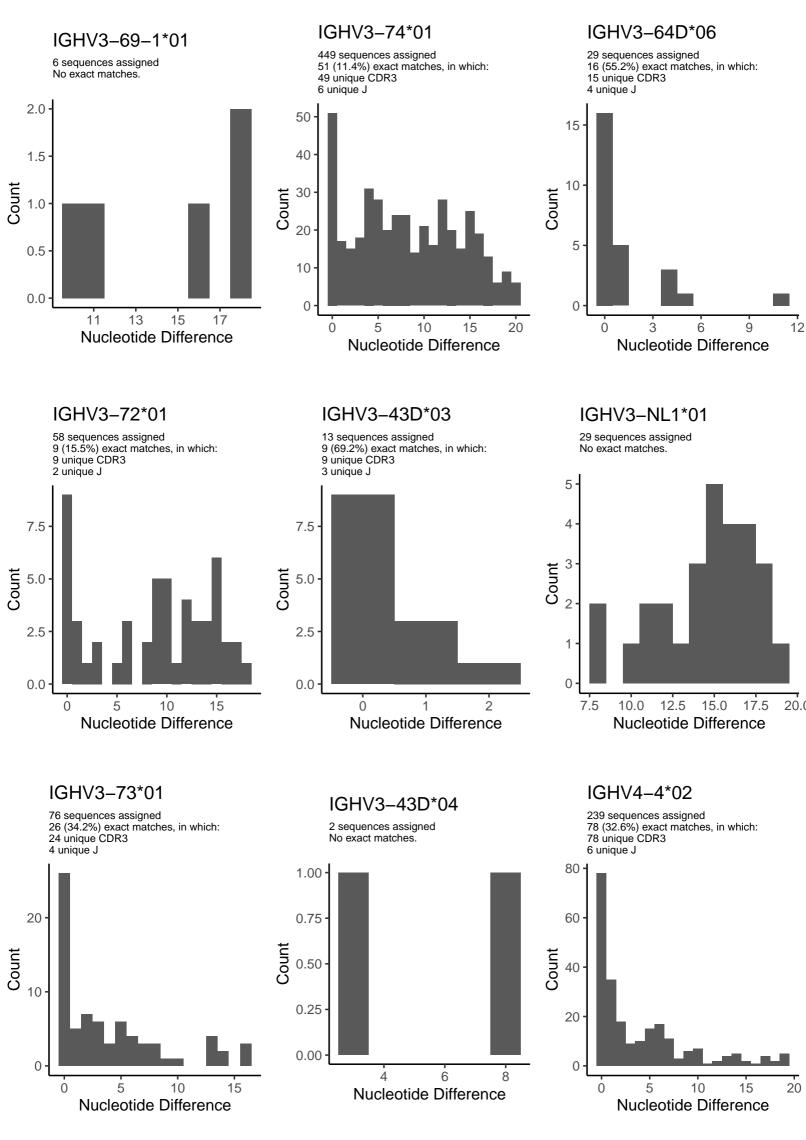


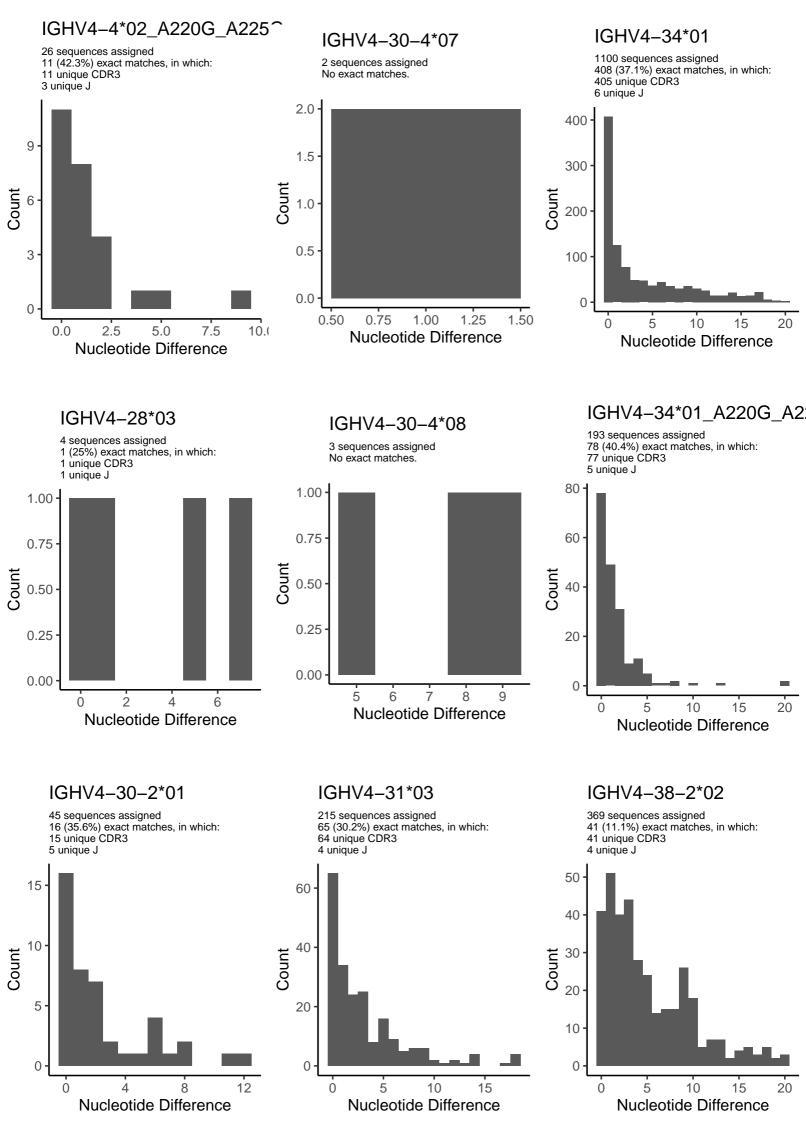


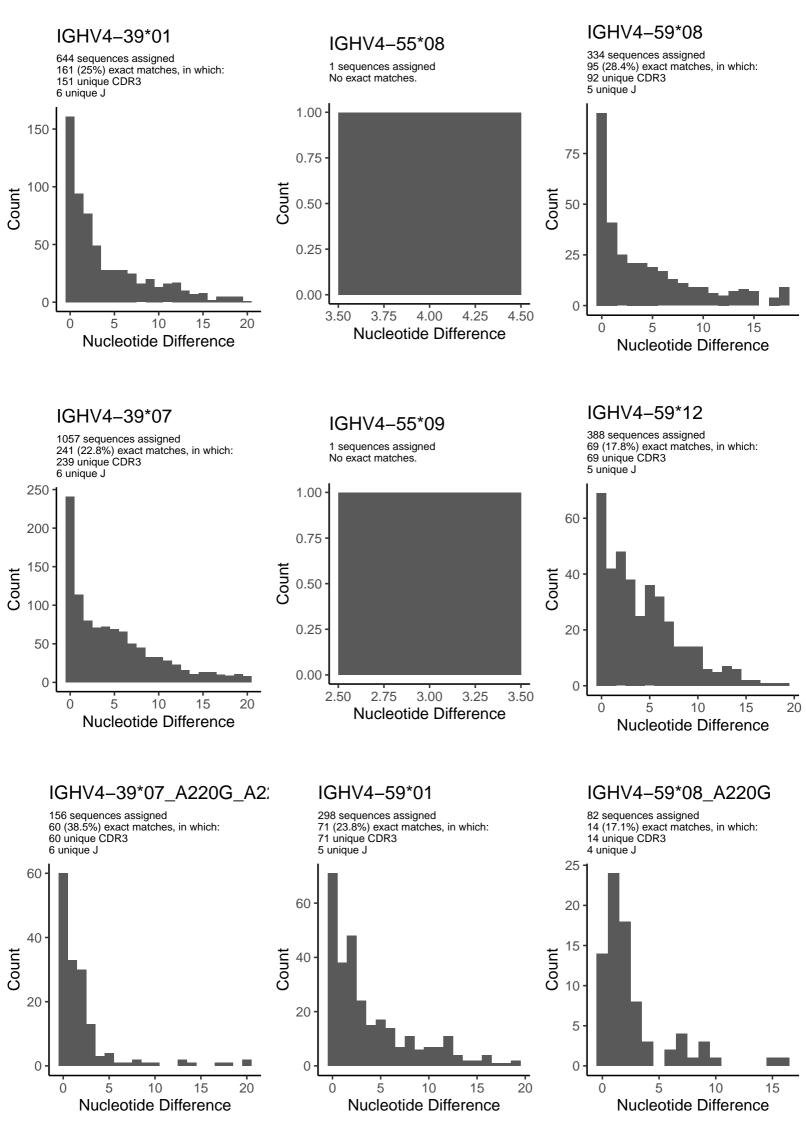


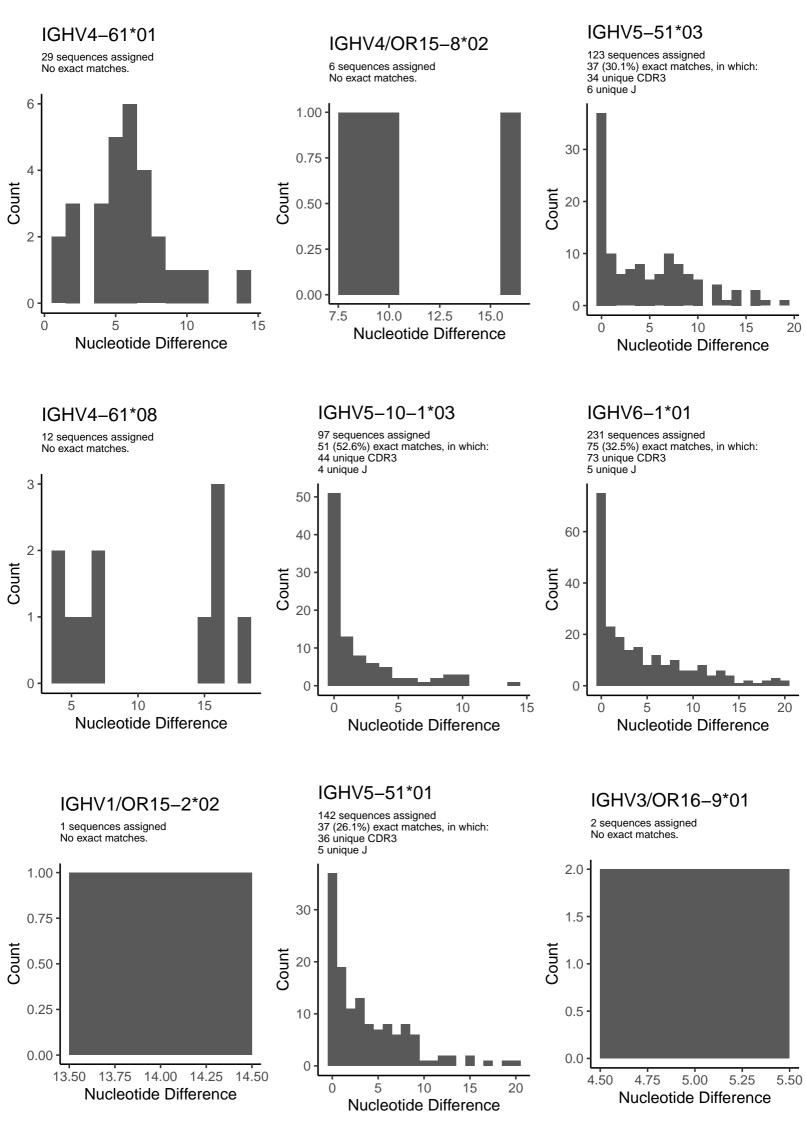






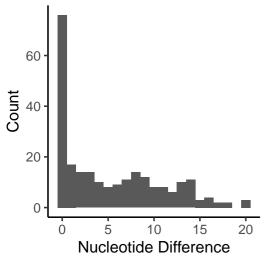






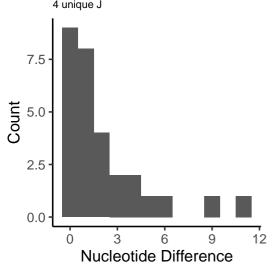
IGHV7-4-1*02

251 sequences assigned 76 (30.3%) exact matches, in which: 69 unique CDR3 5 unique J



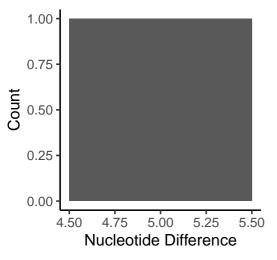
IGHV7-4-1*02_A200T

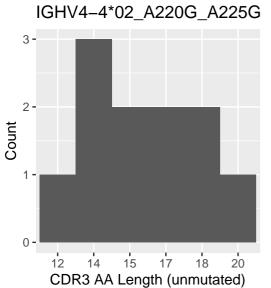
30 sequences assigned 9 (30%) exact matches, in which: 9 unique CDR3 4 unique J

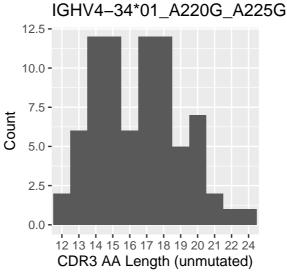


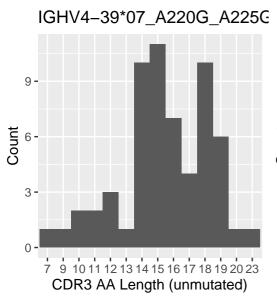
IGHV7-40*03

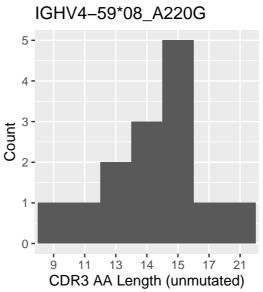
1 sequences assigned No exact matches.

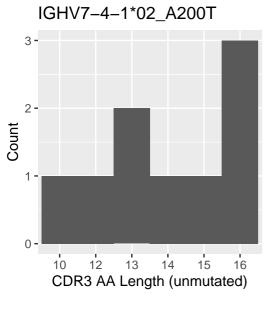


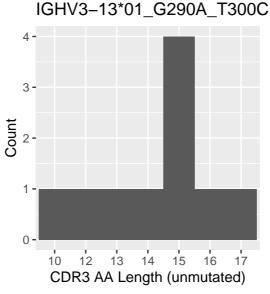














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