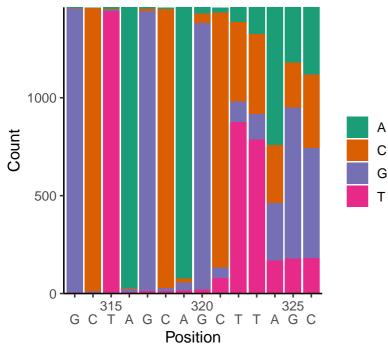
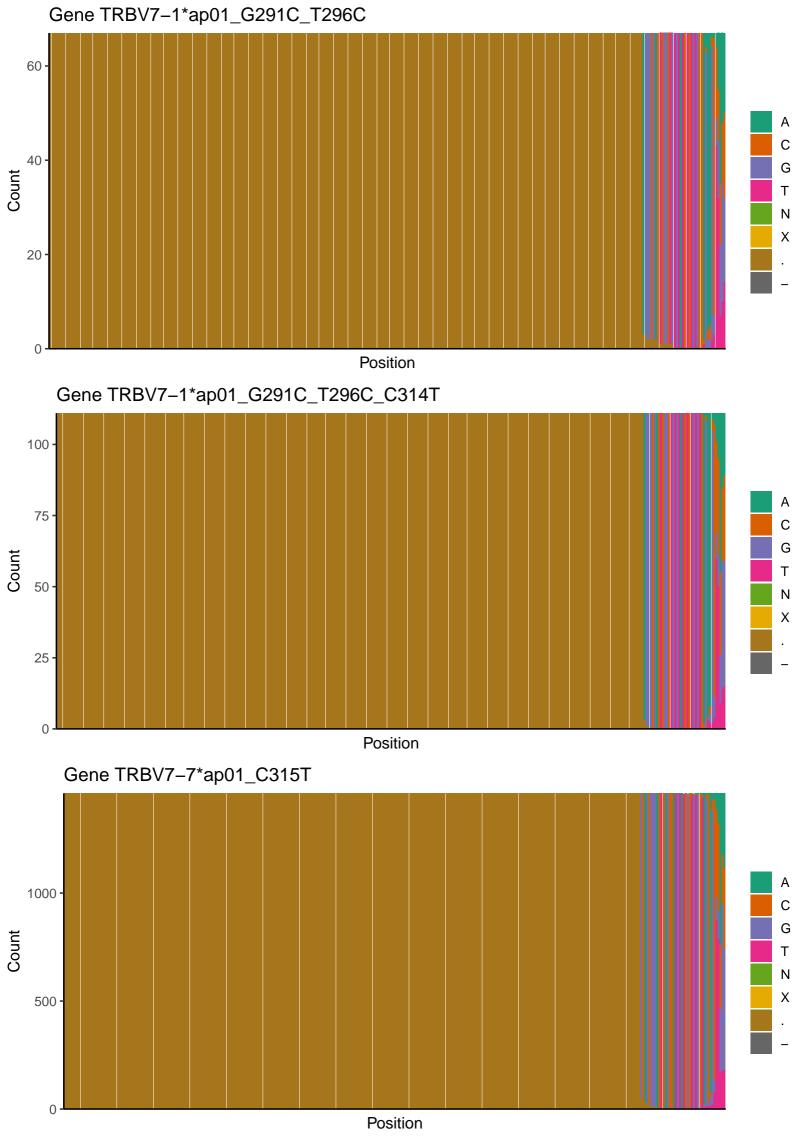
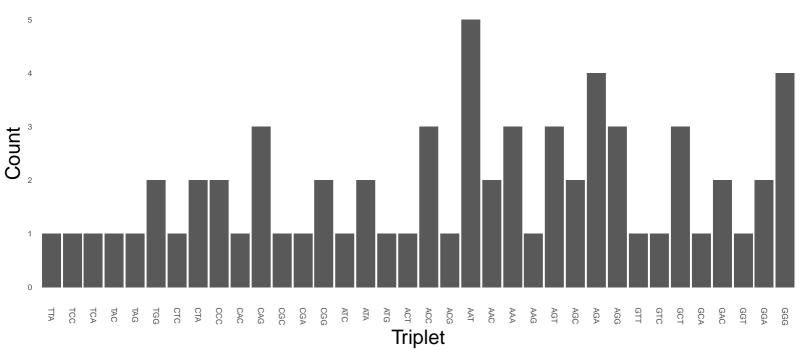


Gene TRBV7-7*ap01_C315T

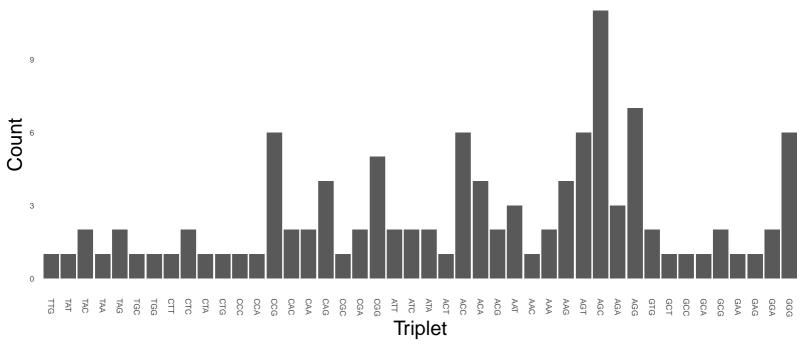




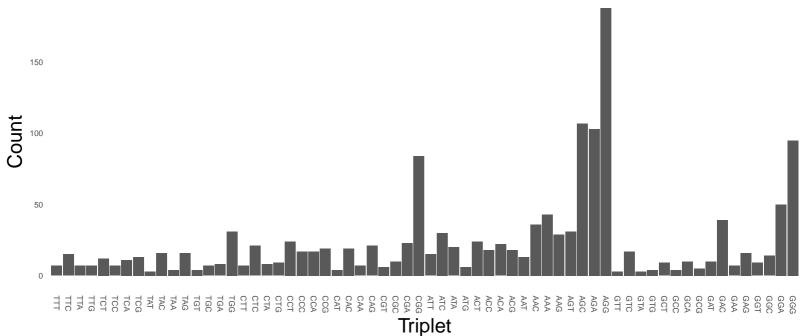
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet

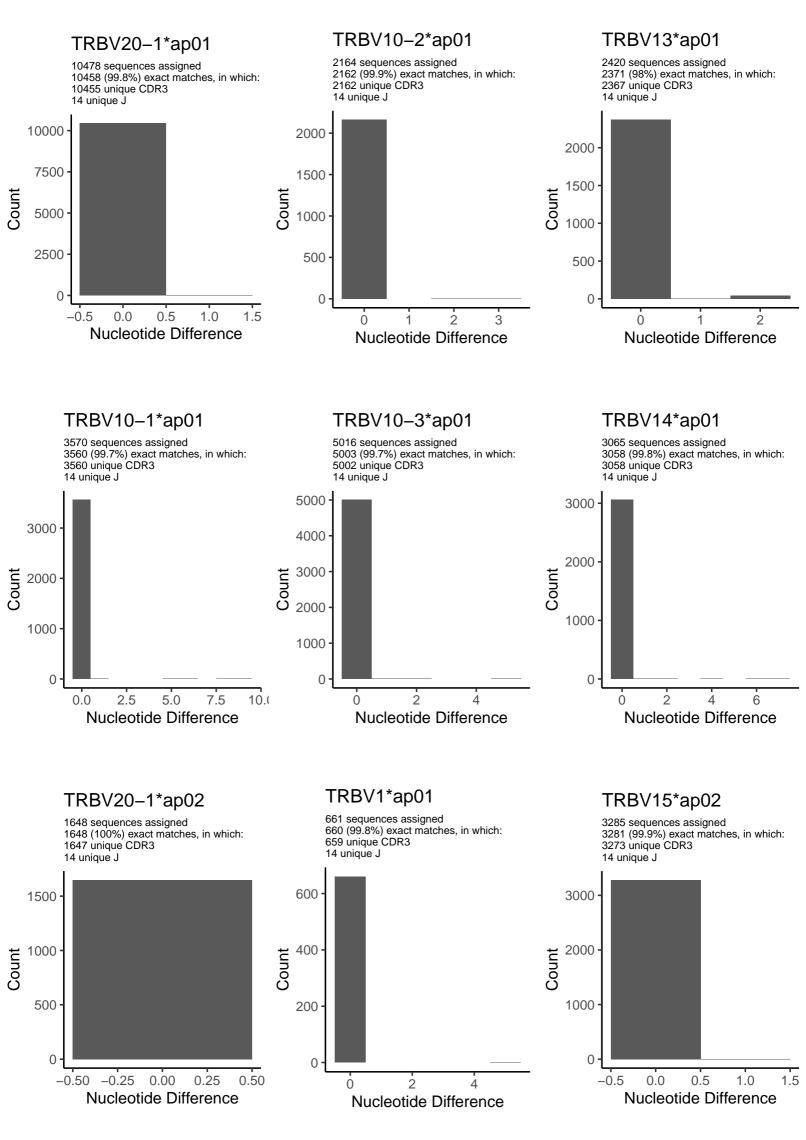


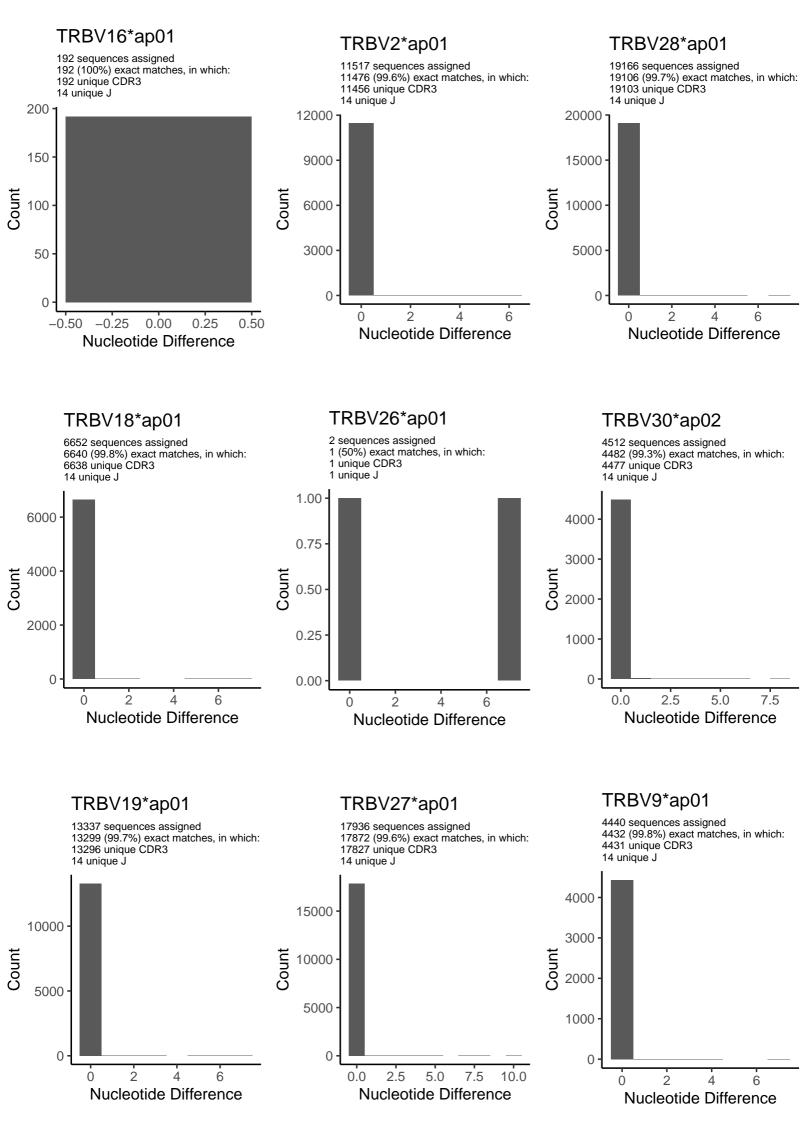
TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet

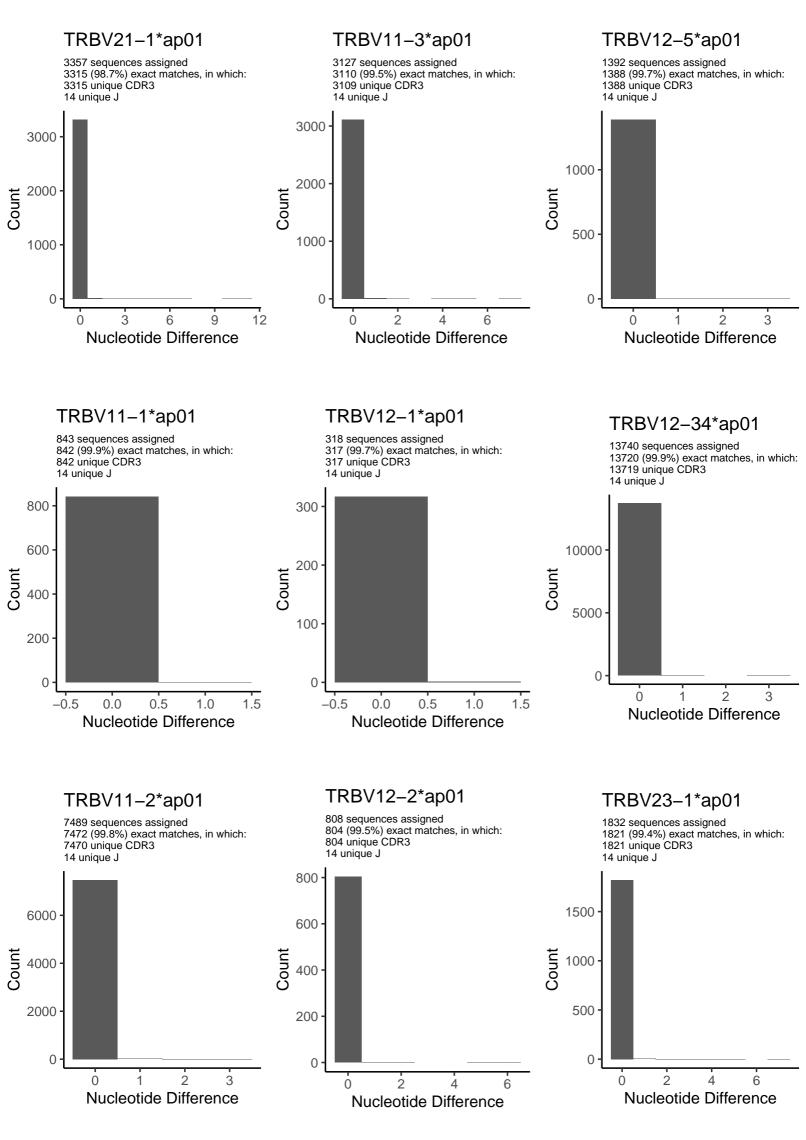


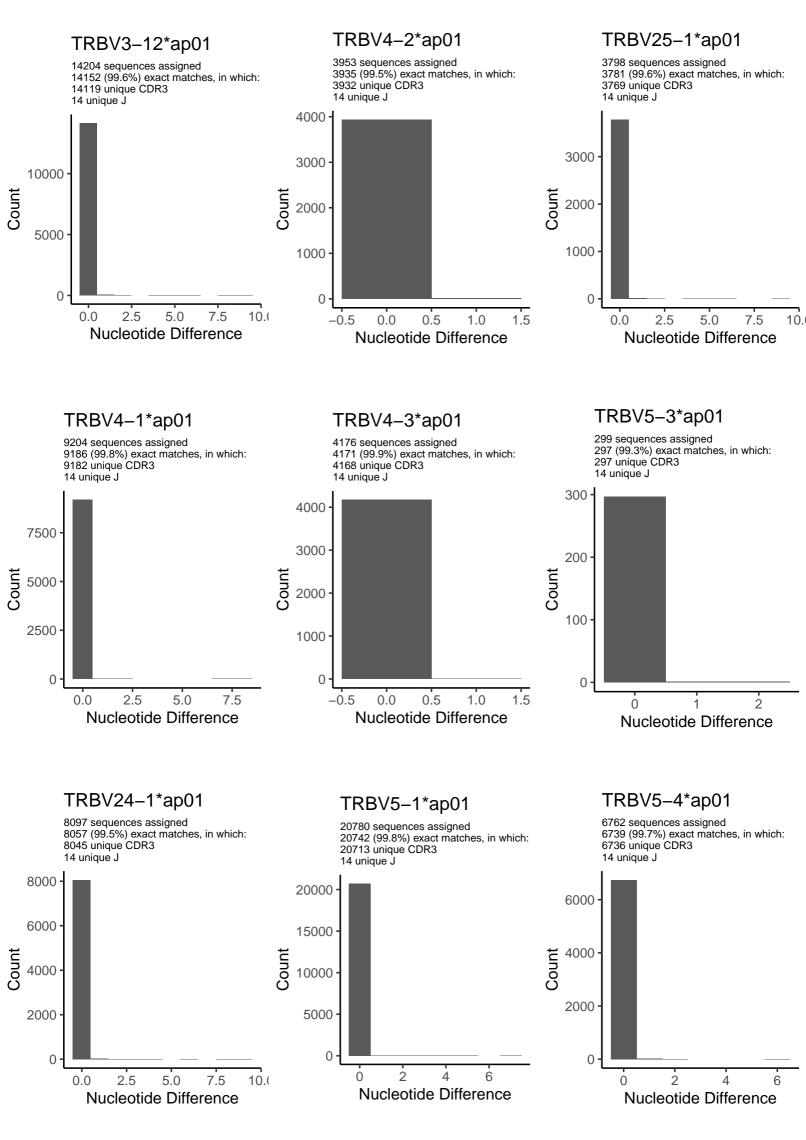
TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet

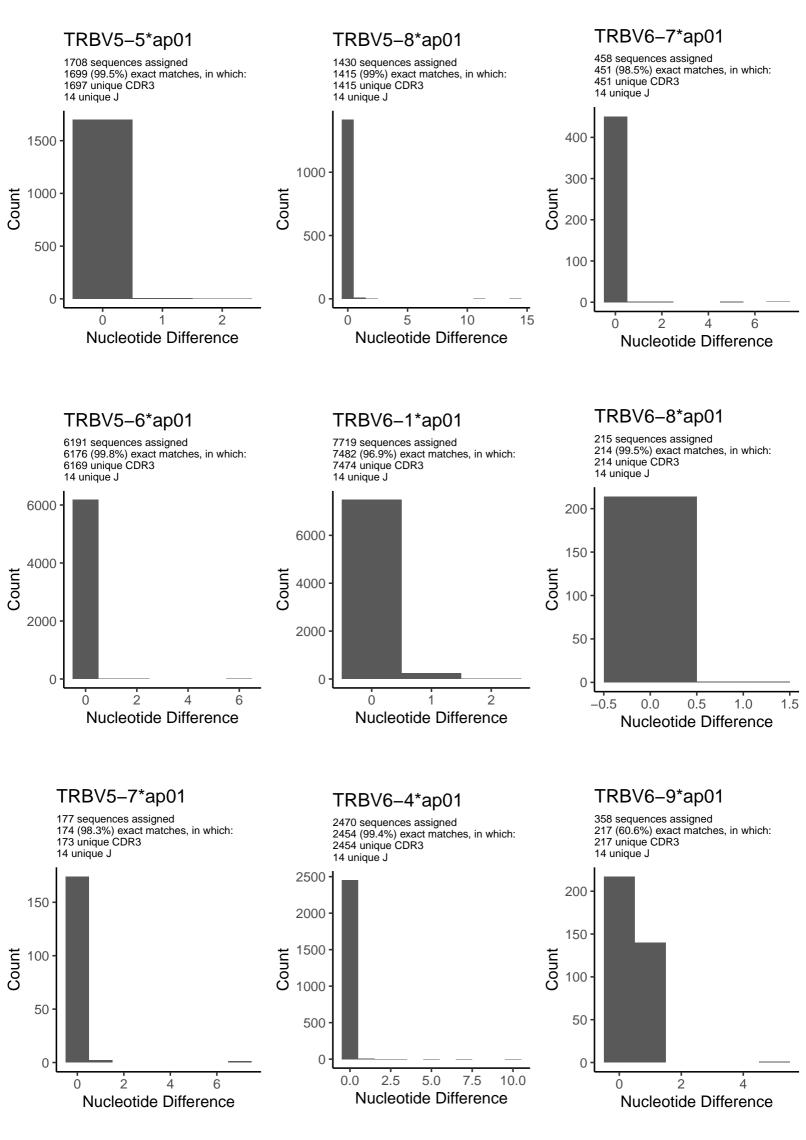


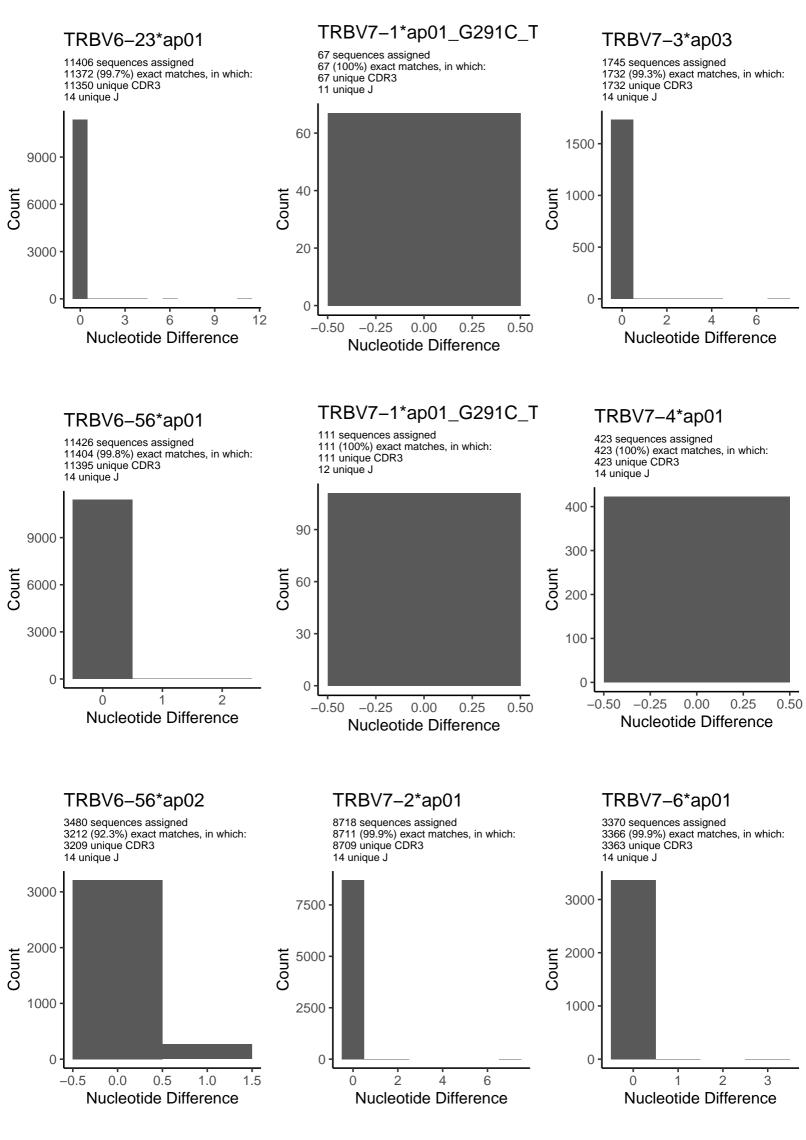






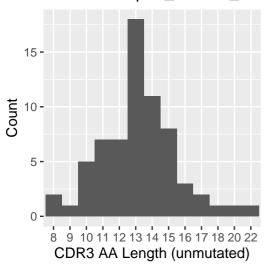




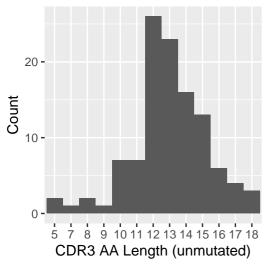


TRBV7-7*ap01_C315T TRBV7-9*ap01 1462 sequences assigned 1448 (99%) exact matches, in which: 11381 sequences assigned 11365 (99.9%) exact matches, in which: 1447 unique CDR3 11363 unique CDR3 14 unique J 14 unique J 1500 9000 1000 Count 6000 500 3000 0 0 0 2 **Nucleotide Difference Nucleotide Difference** TRBV7-8*ap01 TRBV29-1*ap01 2407 sequences assigned 2404 (99.9%) exact matches, in which: 6807 sequences assigned 6781 (99.6%) exact matches, in which: 2404 unique CDR3 6750 unique CDR3 14 unique J 14 unique J 2500 6000 2000 1500 Count 1500 4000 2000 500 0 -0.50.0 0.5 1.0 1.5 **Nucleotide Difference Nucleotide Difference** TRBV7-8*ap03 TRBV29-1*ap02 1130 sequences assigned 1160 sequences assigned 803 (71.1%) exact matches, in which: 1158 (99.8%) exact matches, in which: 802 unique CDR3 1155 unique CDR3 14 unique J 14 unique J 1200 800 900 600 Count 009 600 300 200 0 0 0.5 -0.50.0 1.0 1.5 0.0 0.5 1.0 1.5 -0.5**Nucleotide Difference Nucleotide Difference**

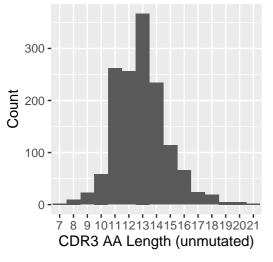
TRBV7-1*ap01_G291C_T296C

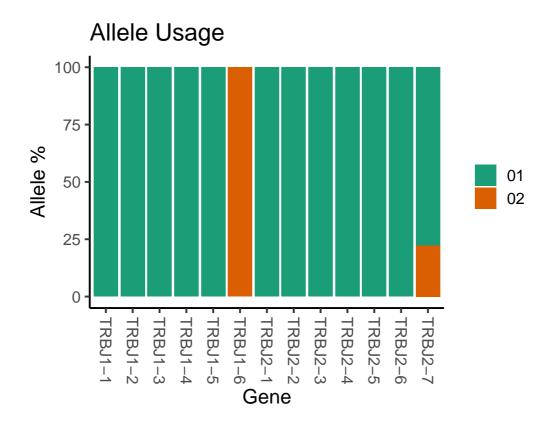


TRBV7-1*ap01_G291C_T296C_C314T



TRBV7-7*ap01_C315T





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