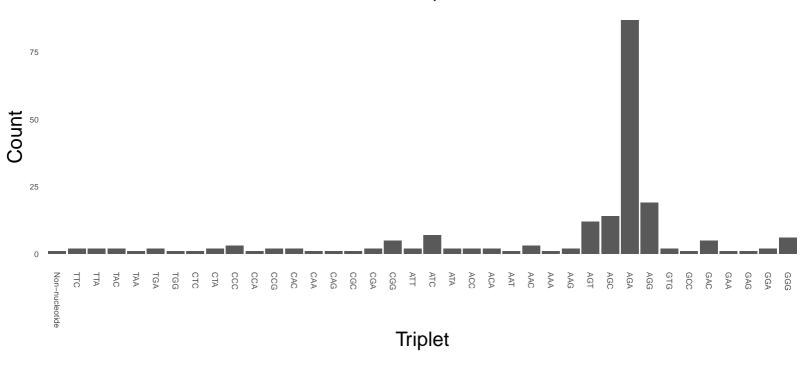
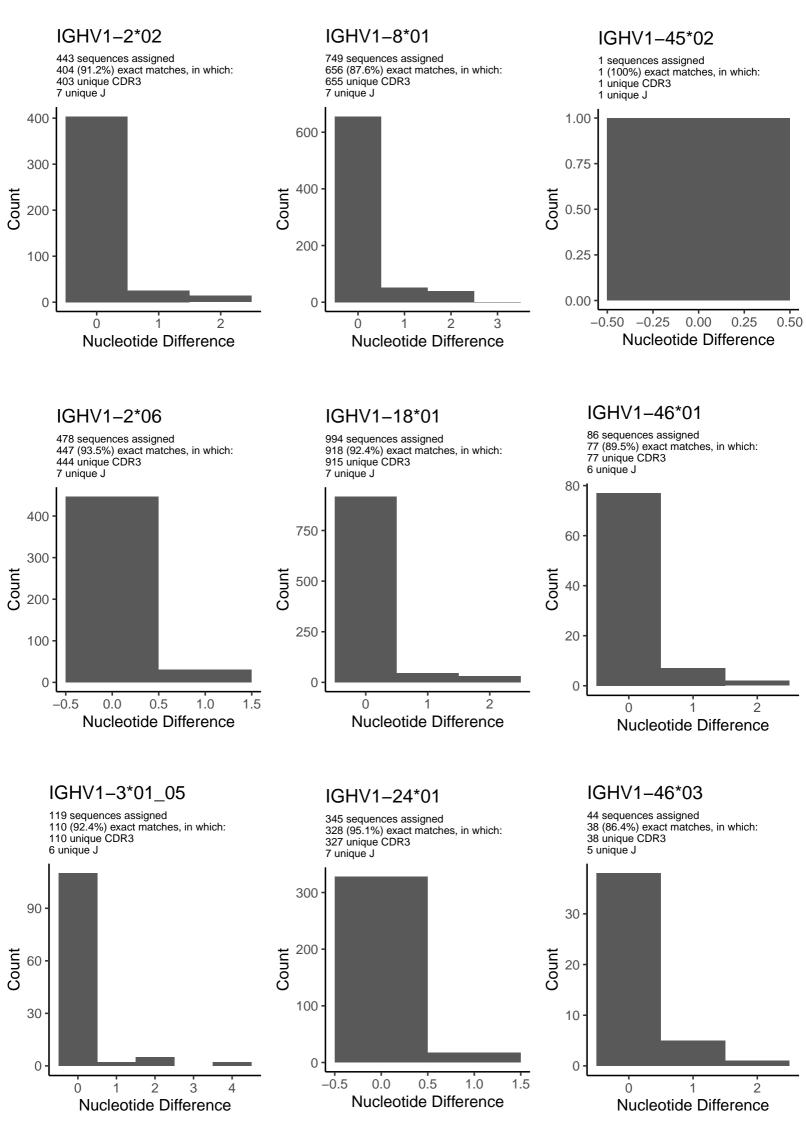
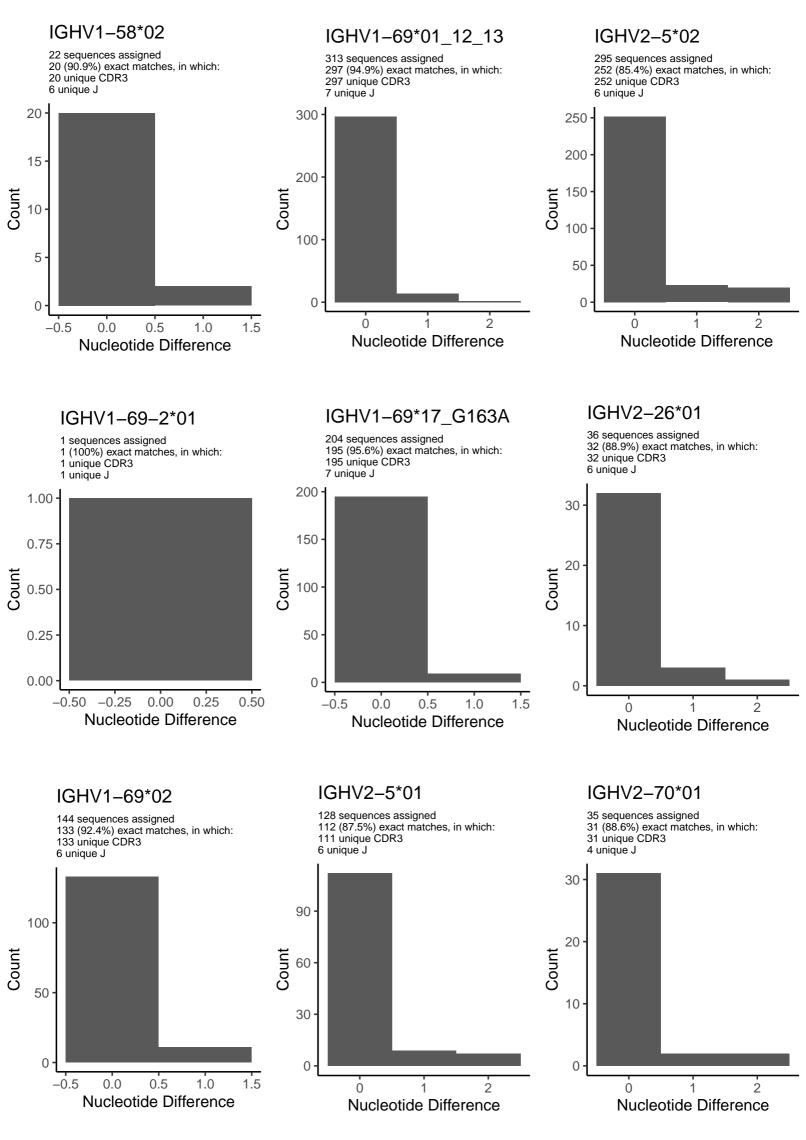


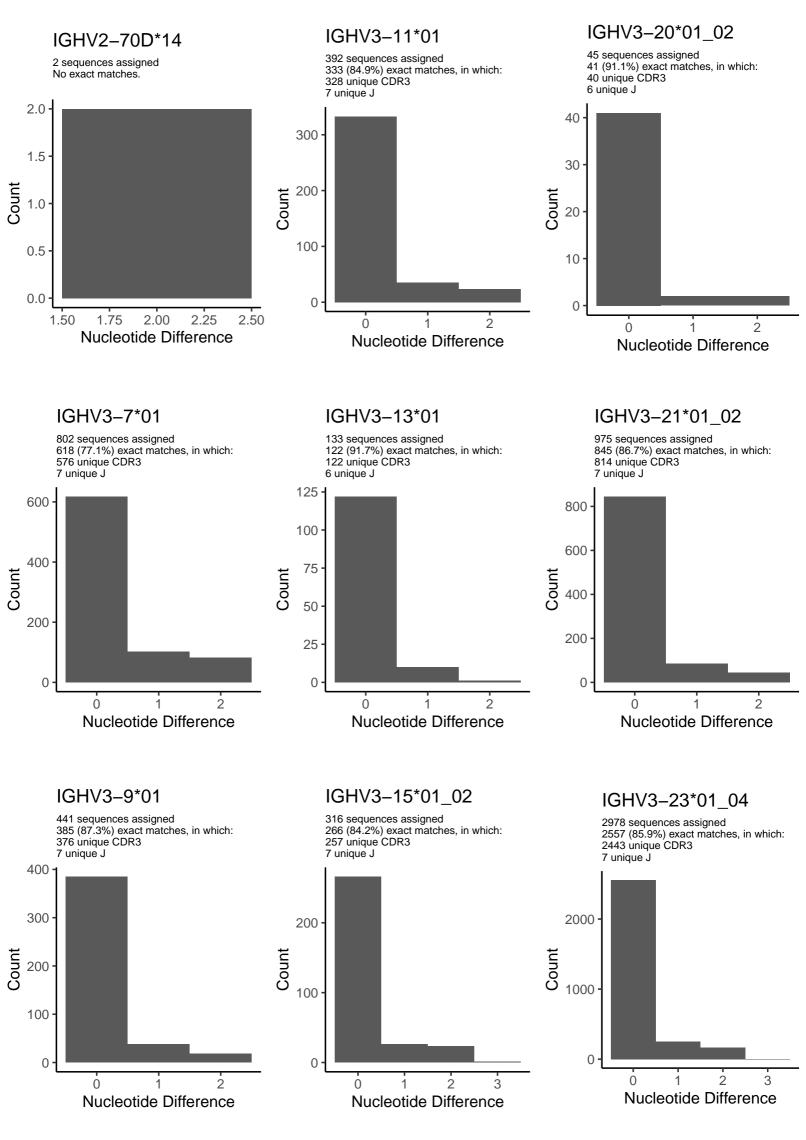


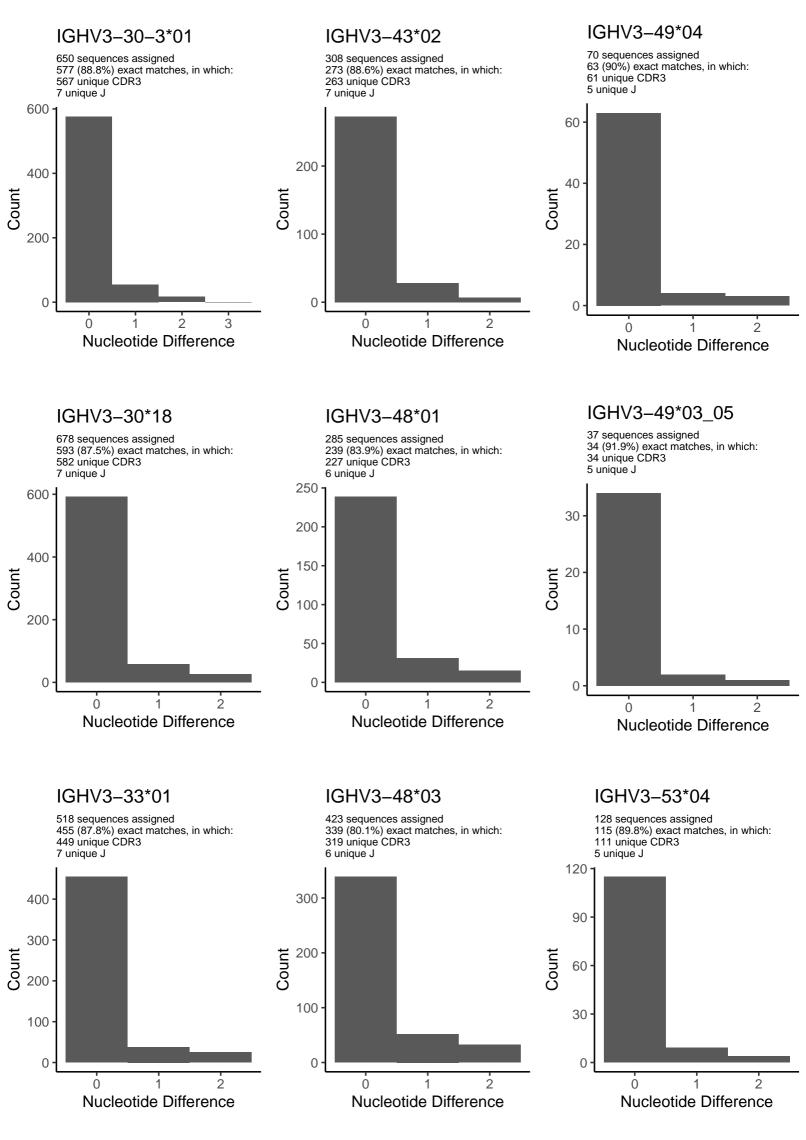
IGHV1-69\*17\_G163A- Final 3 nucleotides as a triplet

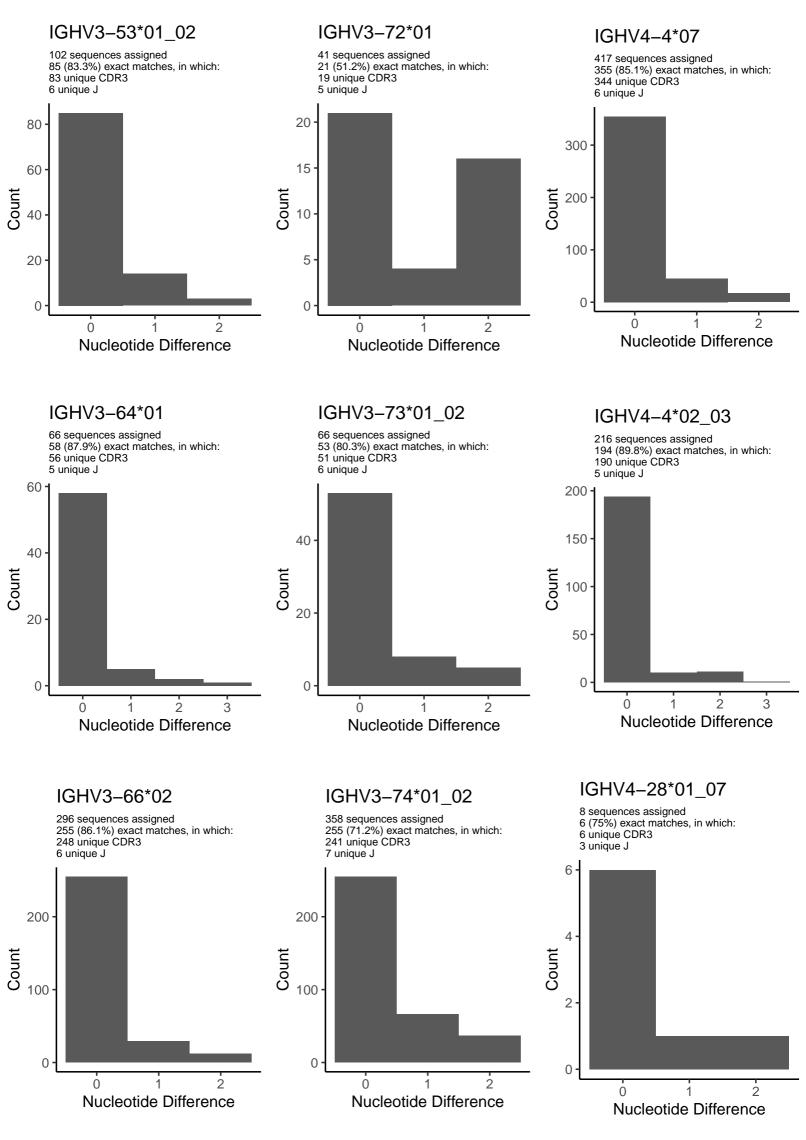


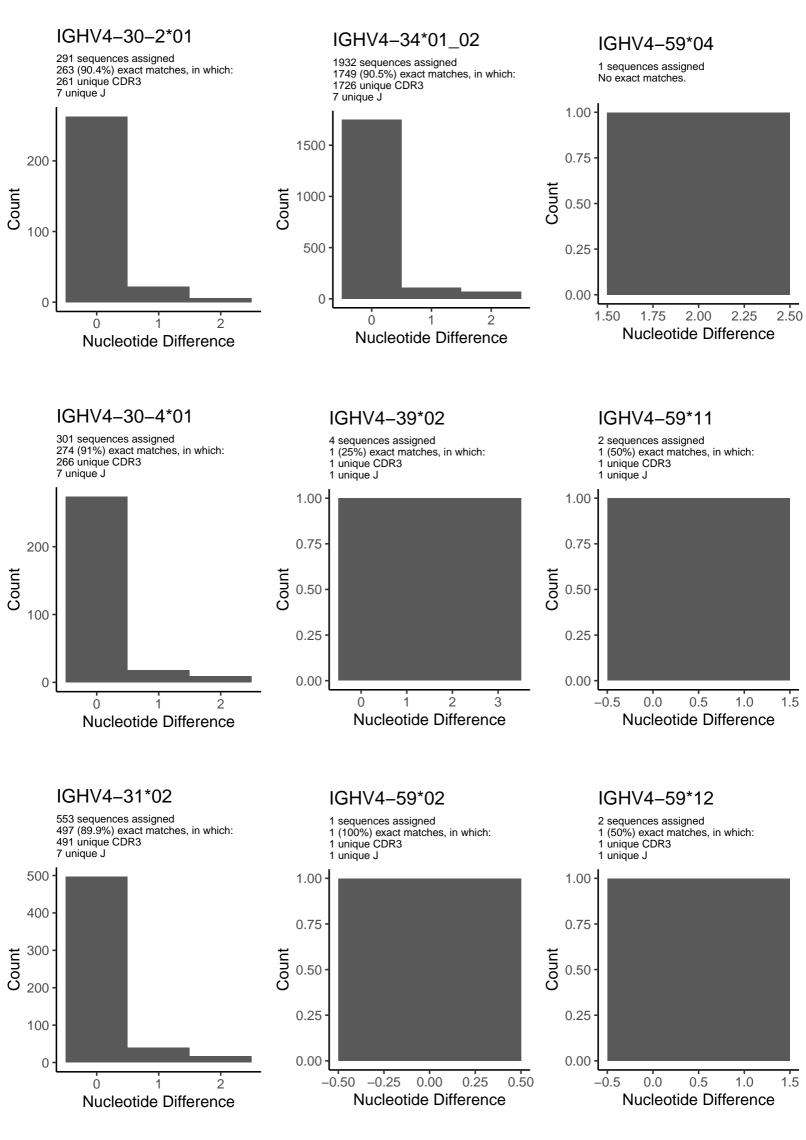






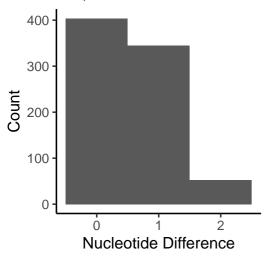






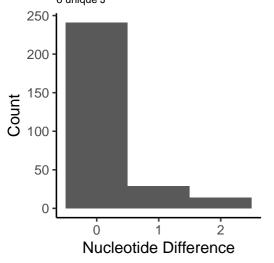
## IGHV4-61\*02

802 sequences assigned 404 (50.4%) exact matches, in which: 389 unique CDR3 6 unique J



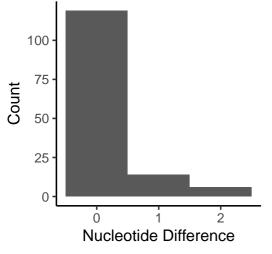
## IGHV6-1\*01\_02

284 sequences assigned 241 (84.9%) exact matches, in which: 238 unique CDR3 6 unique J

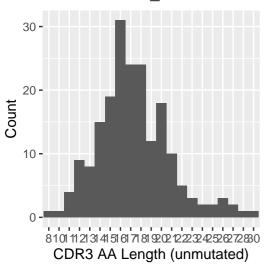


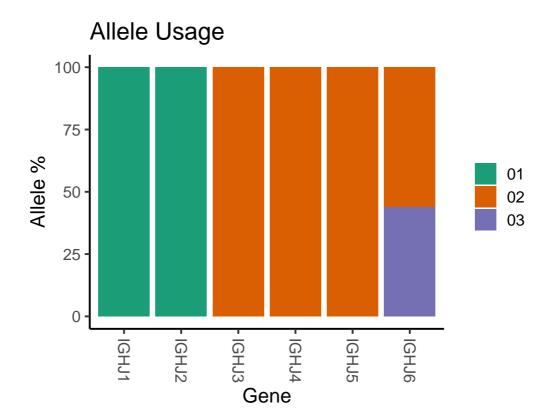
## IGHV7-4-1\*02

139 sequences assigned 119 (85.6%) exact matches, in which: 119 unique CDR3 7 unique J



IGHV1-69\*17\_G163A





## Sequence Count by IGHJ6 allele usage

