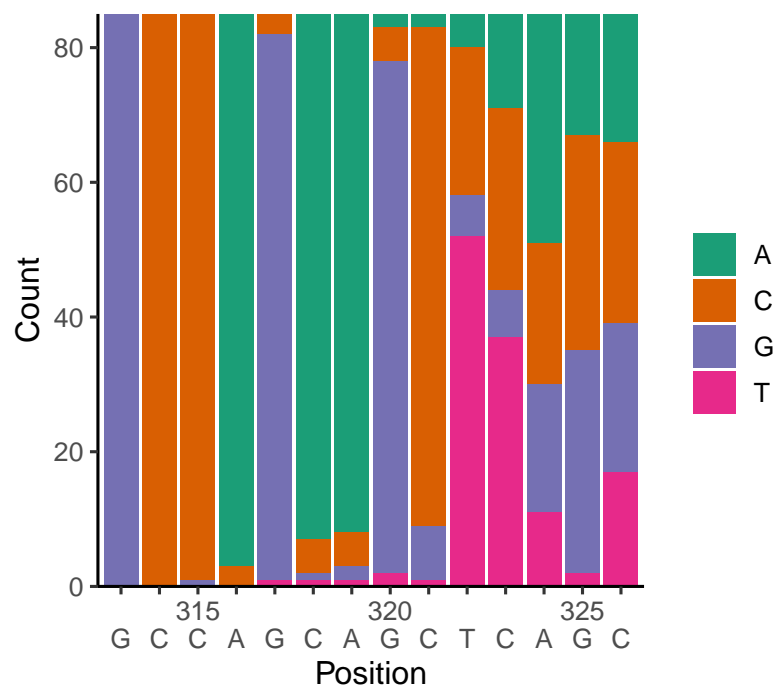
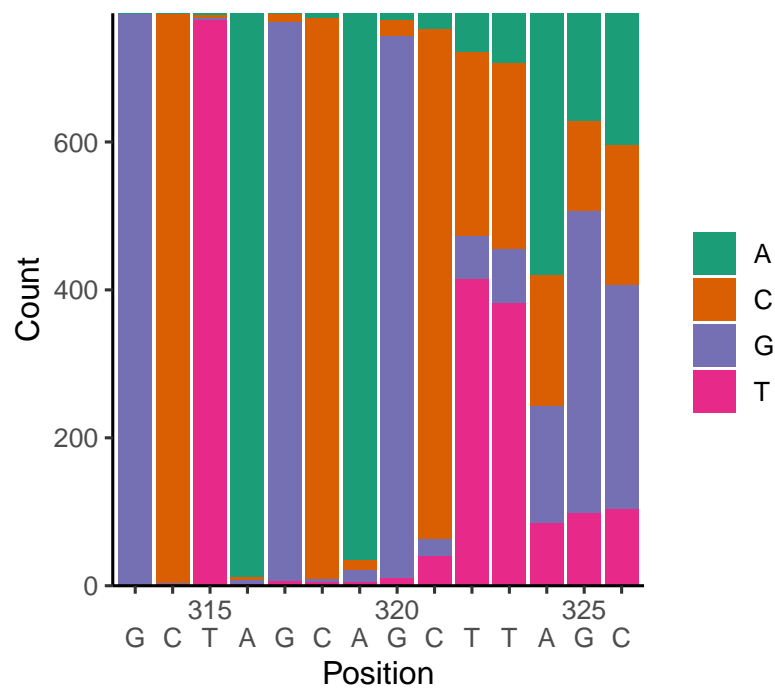


Gene TRBV7-1*ap01_G291C_T296C



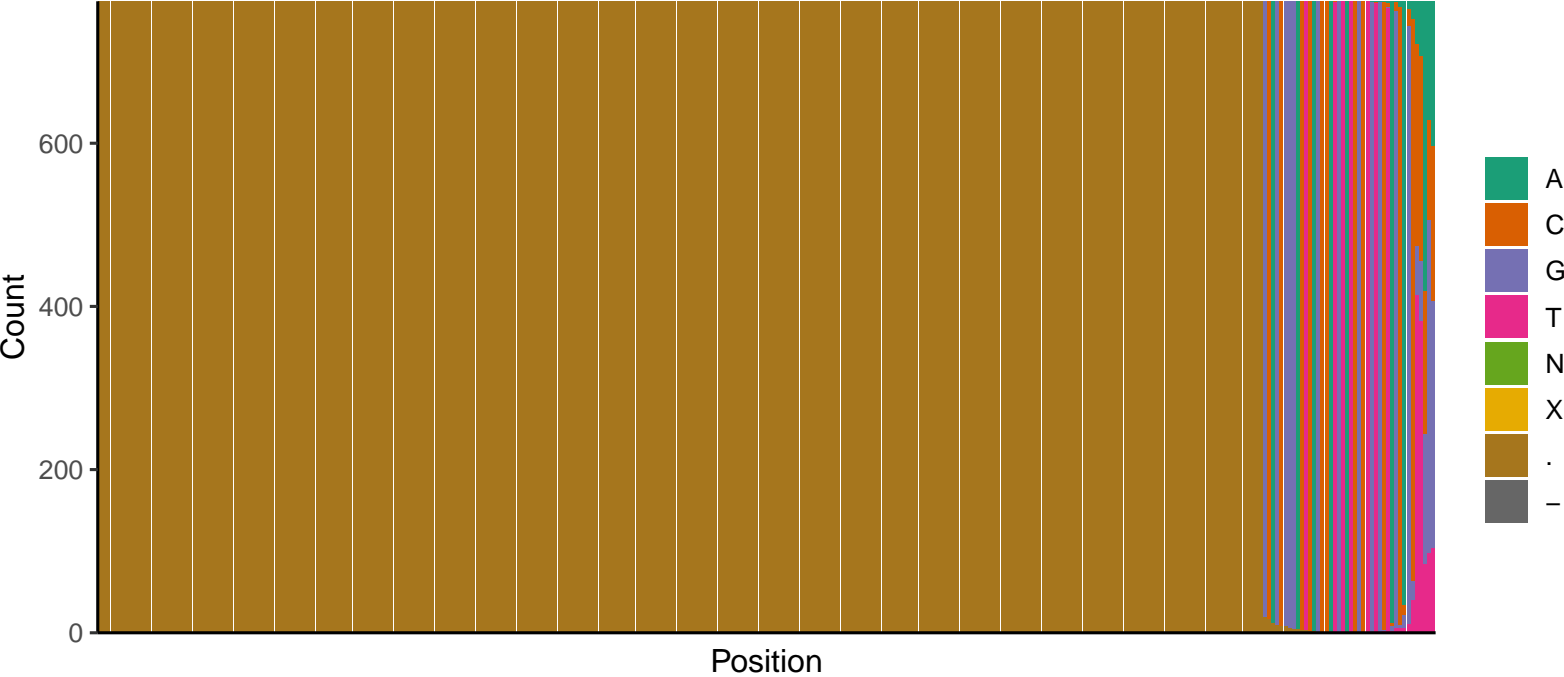
Gene TRBV7-7*ap01_C315T



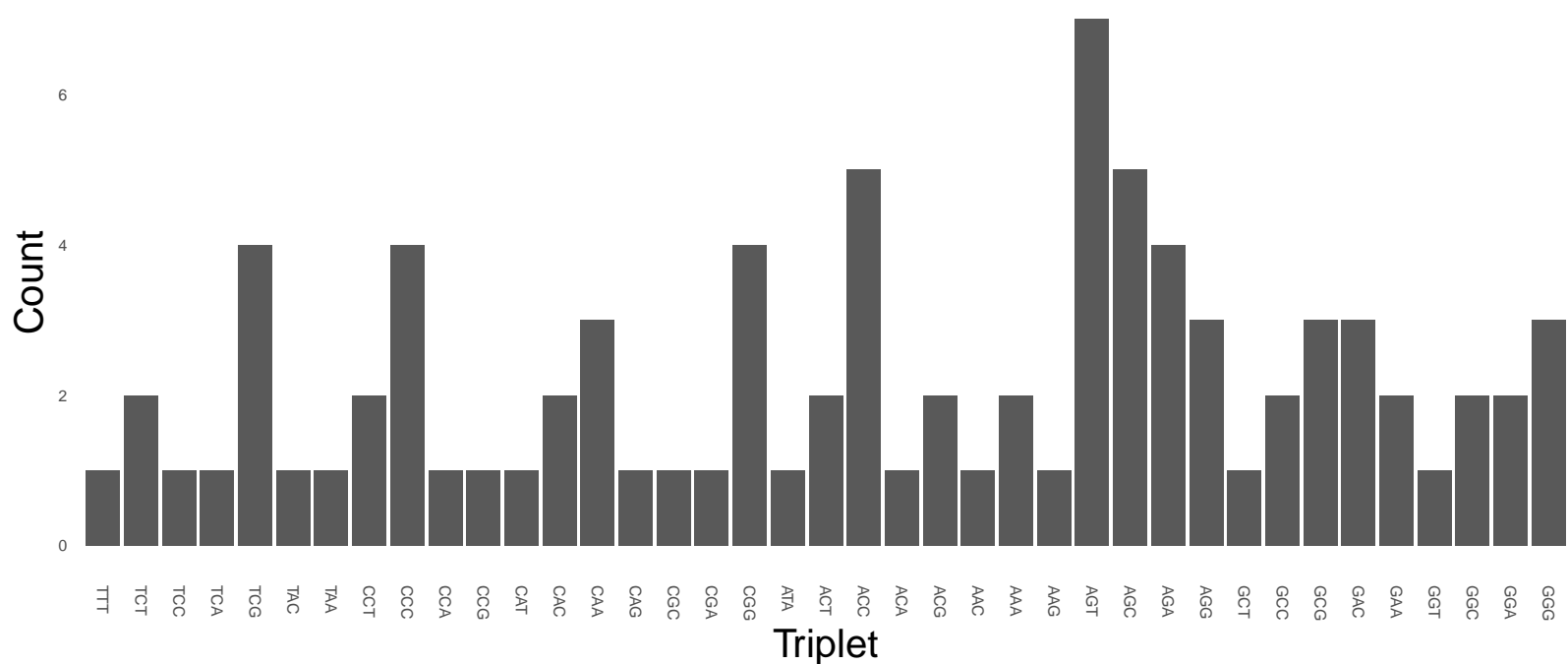
Gene TRBV7-1*ap01_G291C_T296C



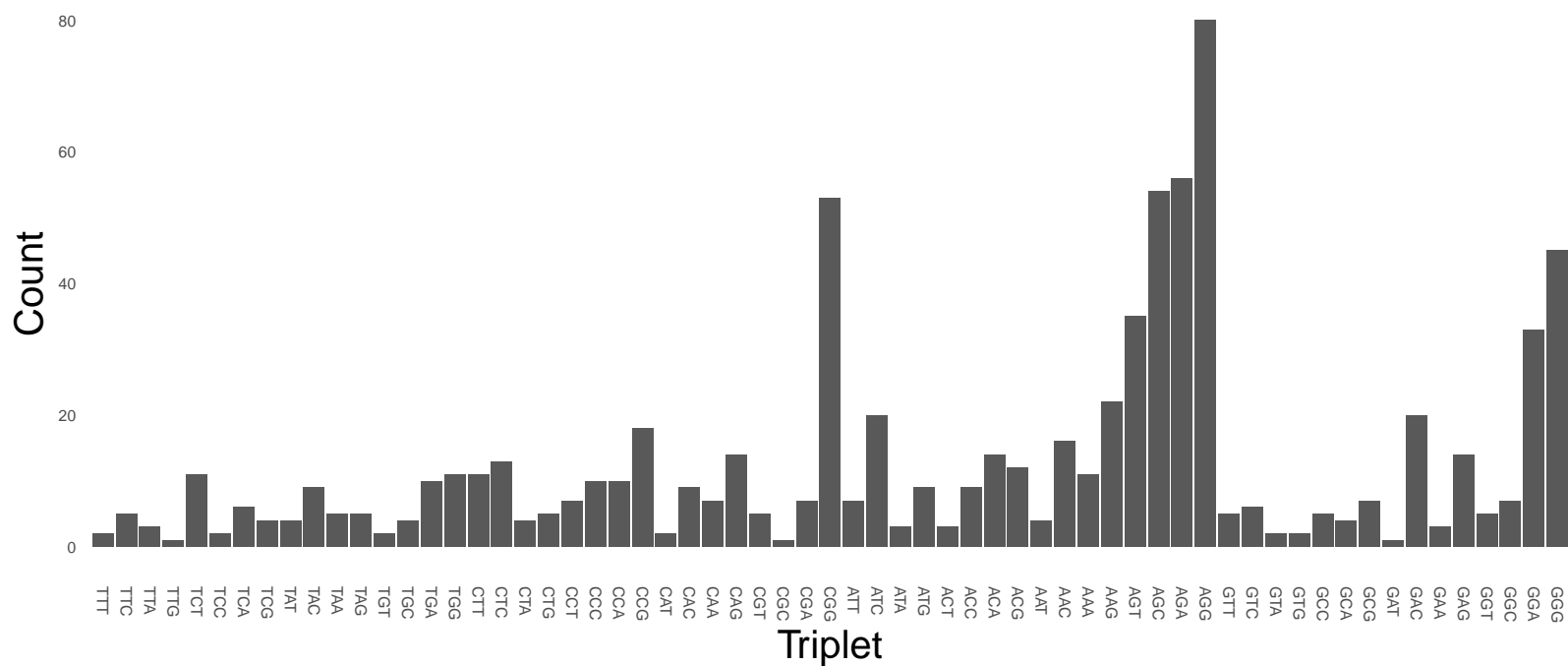
Gene TRBV7-7*ap01_C315T



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

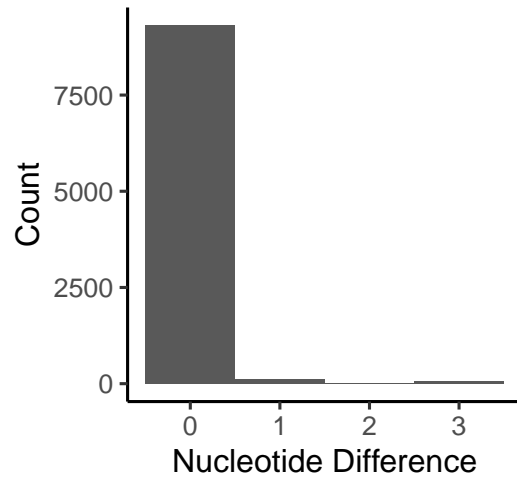


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



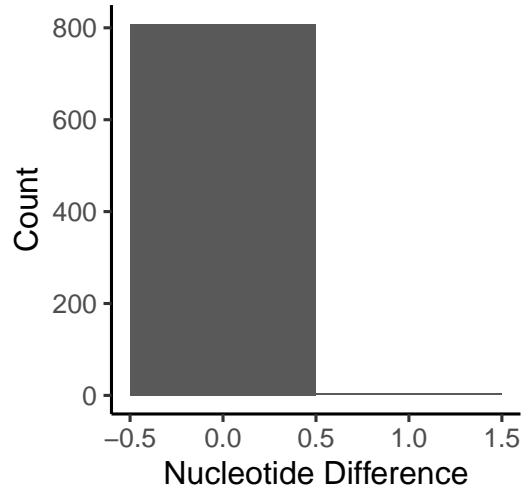
TRBV20-1*ap01

9486 sequences assigned
9310 (98.1%) exact matches, in which:
9116 unique CDR3
13 unique J



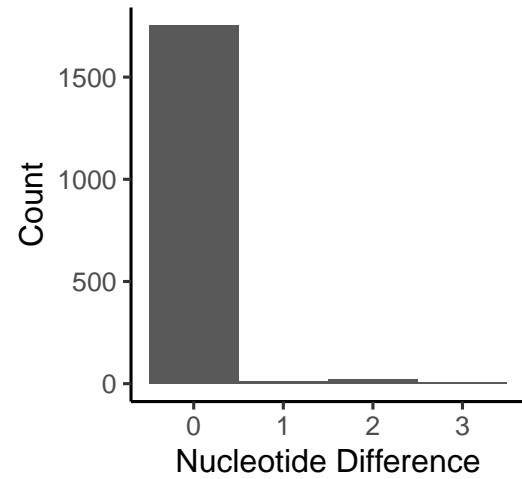
TRBV10-2*ap01

813 sequences assigned
809 (99.5%) exact matches, in which:
805 unique CDR3
13 unique J



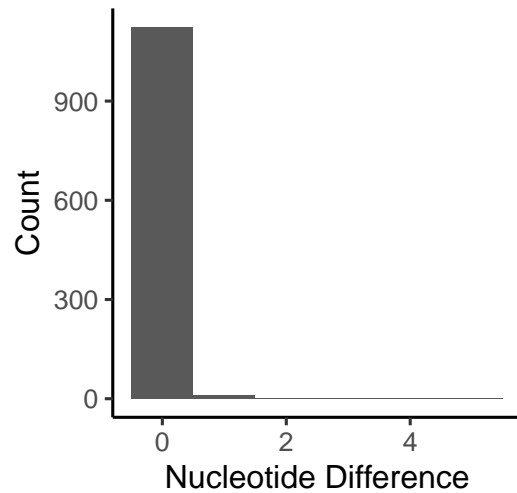
TRBV13*ap01

1800 sequences assigned
1753 (97.4%) exact matches, in which:
1730 unique CDR3
13 unique J



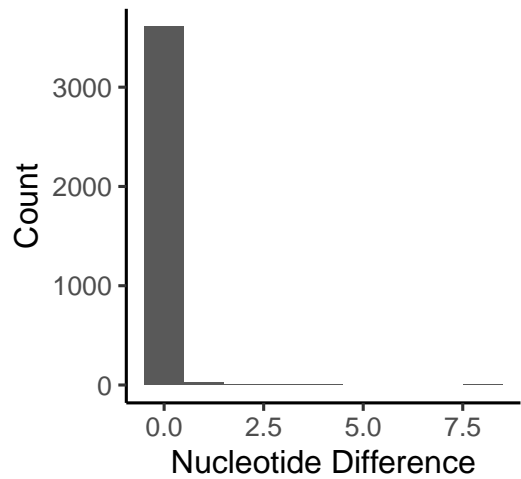
TRBV10-1*ap01

1138 sequences assigned
1124 (98.8%) exact matches, in which:
1113 unique CDR3
13 unique J



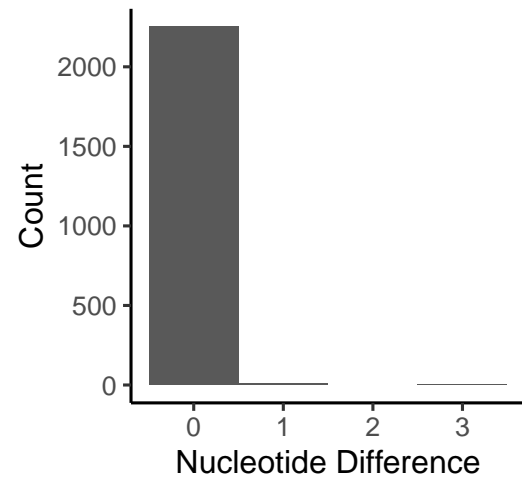
TRBV10-3*ap01

3640 sequences assigned
3609 (99.1%) exact matches, in which:
3580 unique CDR3
13 unique J



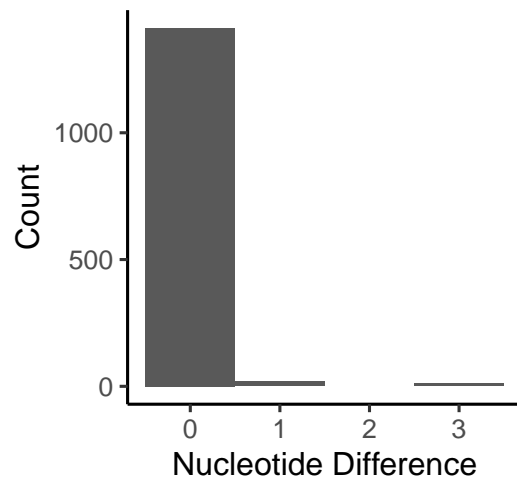
TRBV14*ap01

2261 sequences assigned
2252 (99.6%) exact matches, in which:
2233 unique CDR3
13 unique J



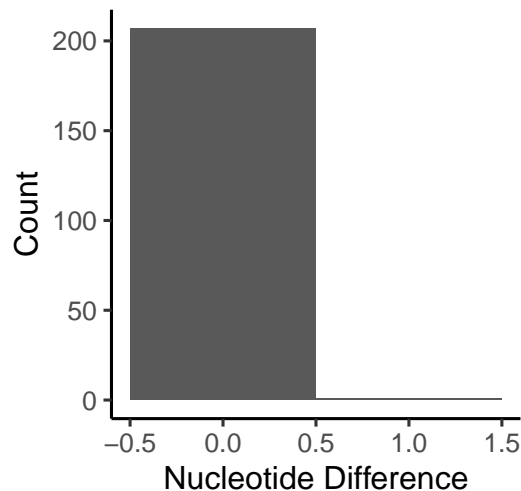
TRBV20-1*ap02

1443 sequences assigned
1413 (97.9%) exact matches, in which:
1375 unique CDR3
13 unique J



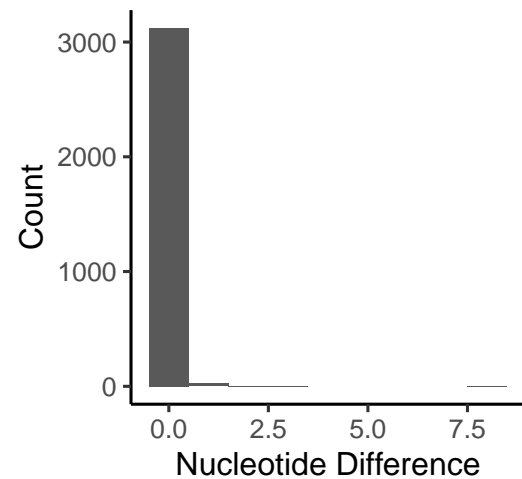
TRBV1*ap01

208 sequences assigned
207 (99.5%) exact matches, in which:
200 unique CDR3
13 unique J



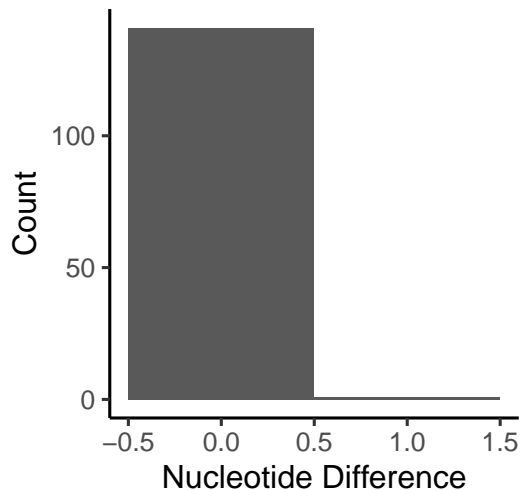
TRBV15*ap02

3151 sequences assigned
3122 (99.1%) exact matches, in which:
3081 unique CDR3
13 unique J



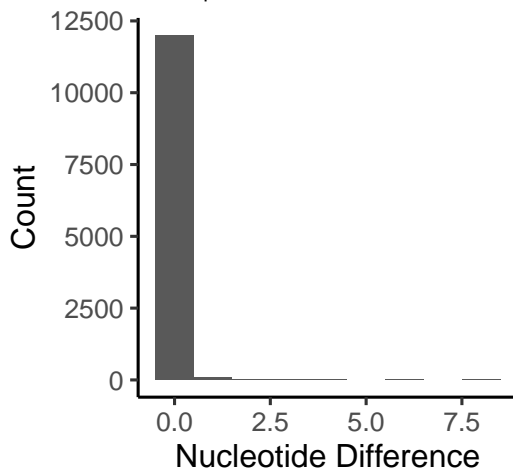
TRBV16*ap01

142 sequences assigned
141 (99.3%) exact matches, in which:
139 unique CDR3
12 unique J



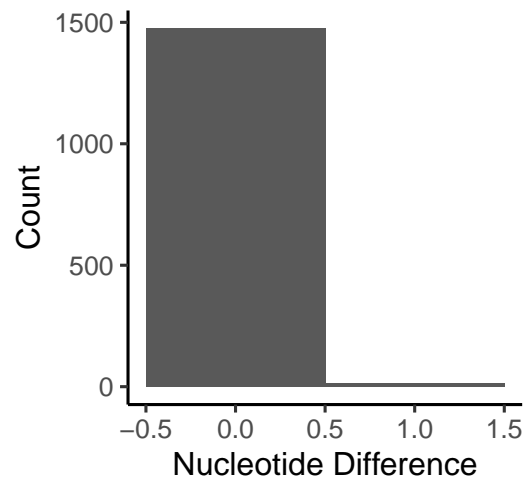
TRBV19*ap01

12119 sequences assigned
12004 (99.1%) exact matches, in which:
11897 unique CDR3
13 unique J



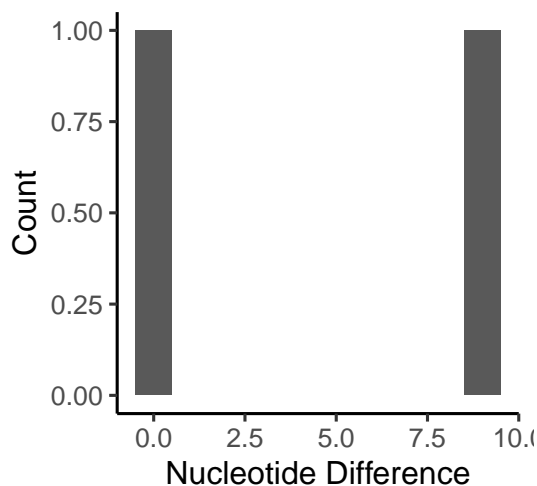
TRBV28*ap01

1488 sequences assigned
1475 (99.1%) exact matches, in which:
1464 unique CDR3
13 unique J



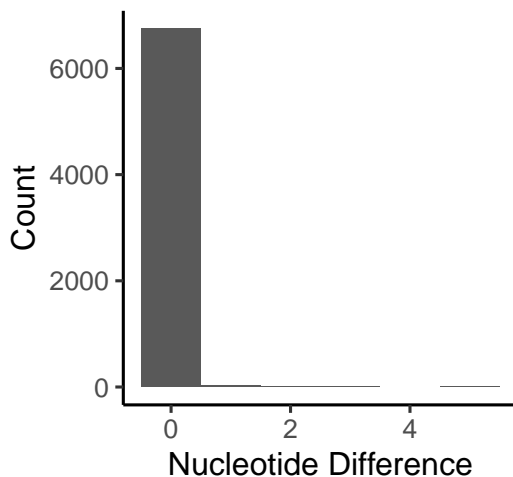
TRBV17*ap01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



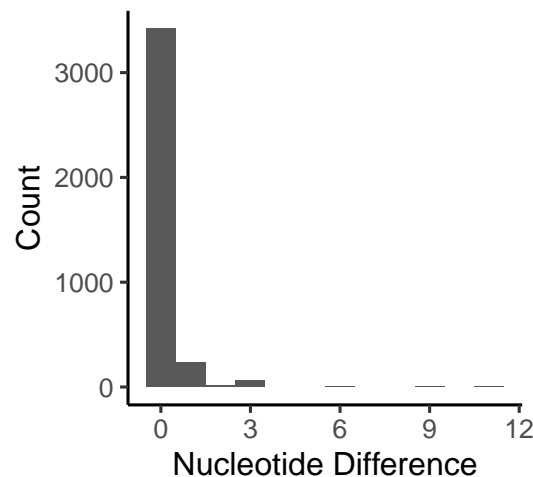
TRBV2*ap01

6790 sequences assigned
6748 (99.4%) exact matches, in which:
6704 unique CDR3
13 unique J



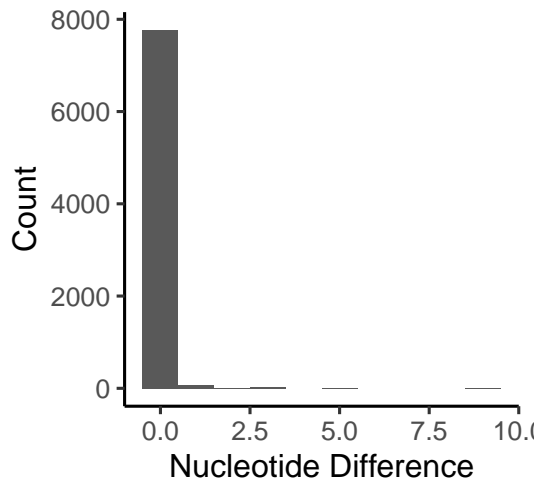
TRBV30*ap01

3736 sequences assigned
3419 (91.5%) exact matches, in which:
3333 unique CDR3
13 unique J



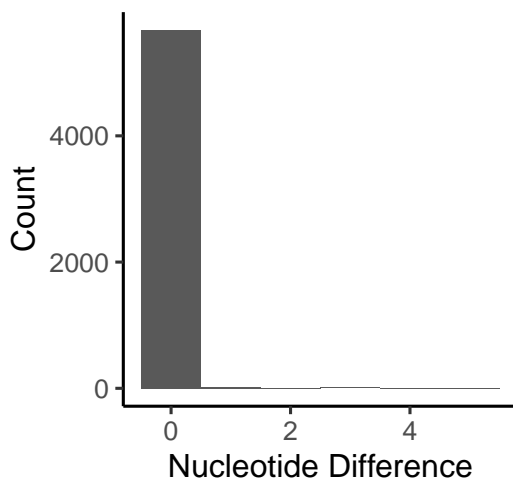
TRBV18*ap01

7870 sequences assigned
7767 (98.7%) exact matches, in which:
7595 unique CDR3
13 unique J



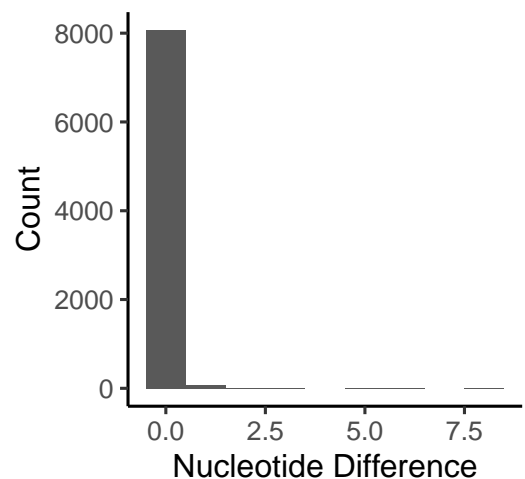
TRBV27*ap01

5716 sequences assigned
5676 (99.3%) exact matches, in which:
5640 unique CDR3
13 unique J



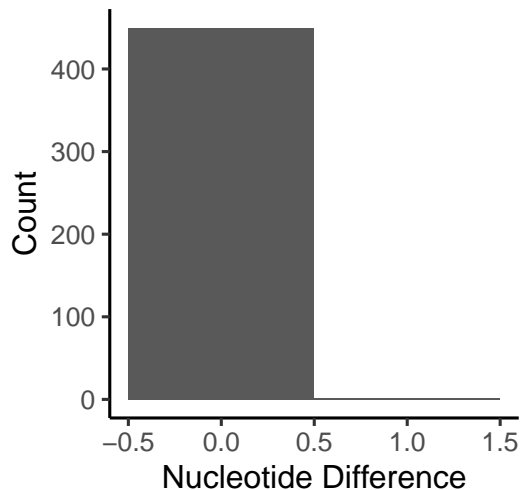
TRBV9*ap01

8159 sequences assigned
8070 (98.9%) exact matches, in which:
7961 unique CDR3
13 unique J



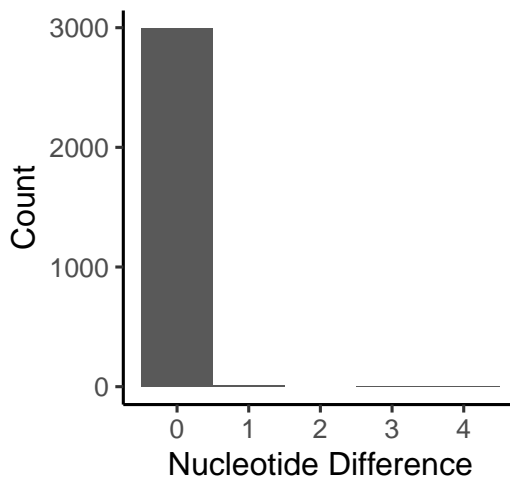
TRBV11-1*ap01

452 sequences assigned
450 (99.6%) exact matches, in which:
445 unique CDR3
13 unique J



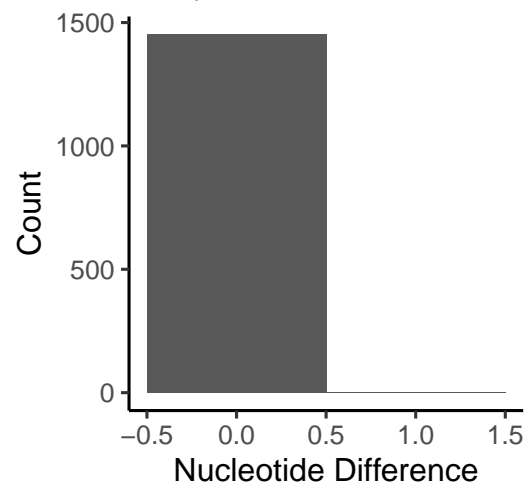
TRBV11-3*ap01

3007 sequences assigned
2994 (99.6%) exact matches, in which:
2973 unique CDR3
13 unique J



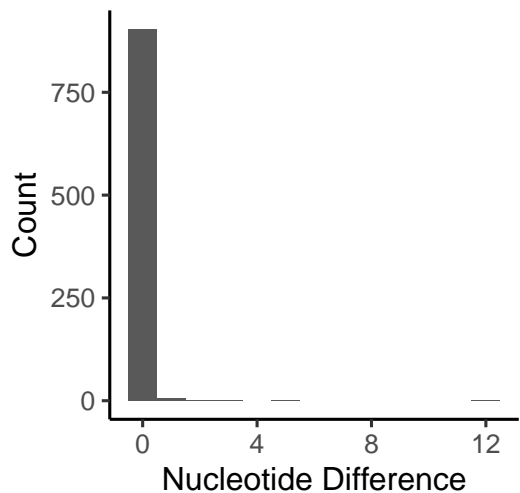
TRBV12-5*ap01

1454 sequences assigned
1452 (99.9%) exact matches, in which:
1444 unique CDR3
13 unique J



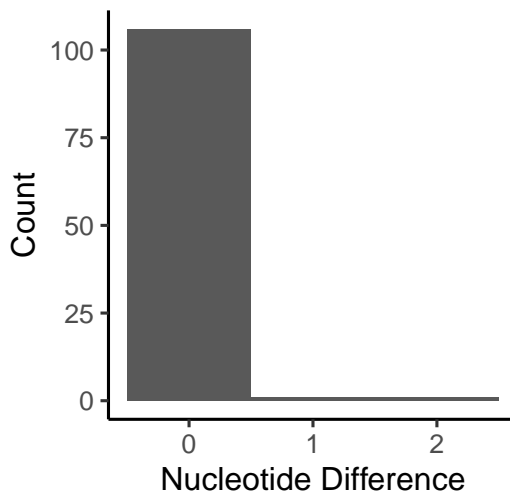
TRBV21-1*ap01

914 sequences assigned
904 (98.9%) exact matches, in which:
904 unique CDR3
13 unique J



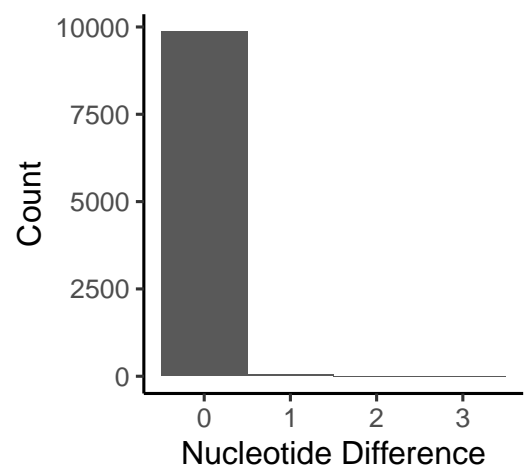
TRBV12-1*ap01

108 sequences assigned
106 (98.1%) exact matches, in which:
106 unique CDR3
13 unique J



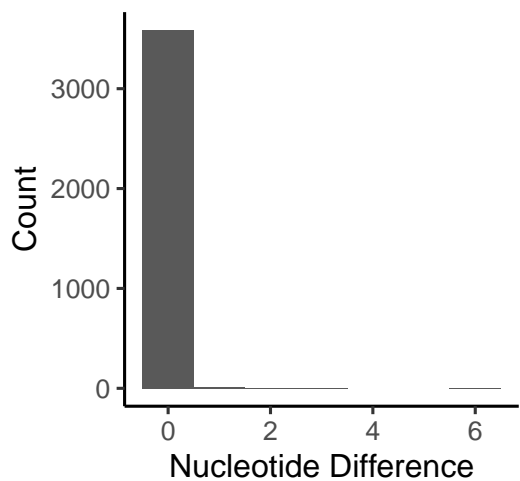
TRBV12-34*ap01

9929 sequences assigned
9871 (99.4%) exact matches, in which:
9766 unique CDR3
13 unique J



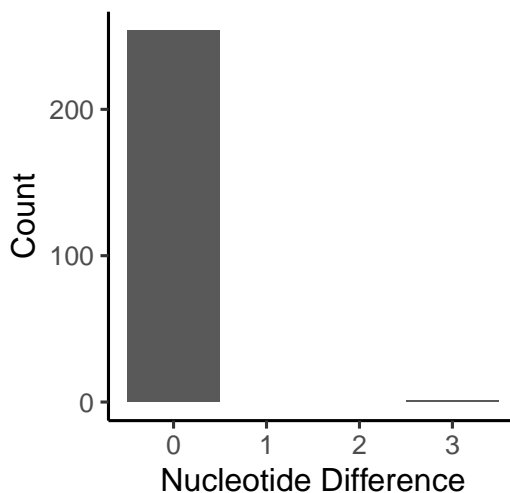
TRBV11-2*ap01

3608 sequences assigned
3587 (99.4%) exact matches, in which:
3567 unique CDR3
14 unique J



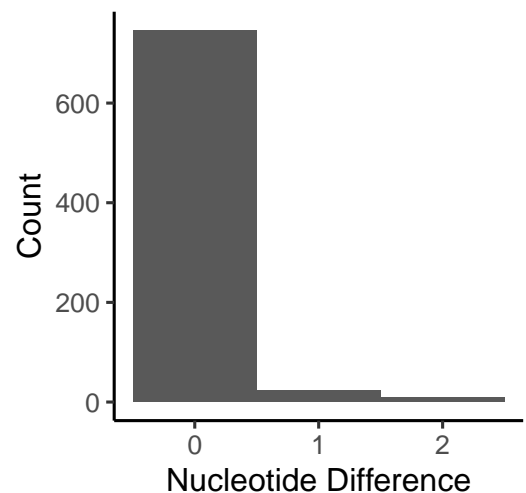
TRBV12-2*ap01

255 sequences assigned
254 (99.6%) exact matches, in which:
249 unique CDR3
13 unique J



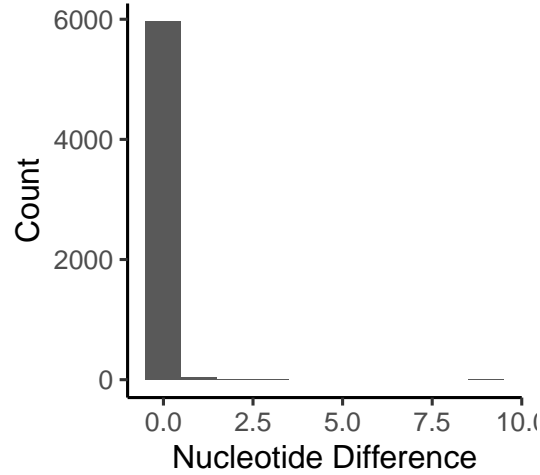
TRBV23-1*ap01

779 sequences assigned
746 (95.8%) exact matches, in which:
731 unique CDR3
13 unique J



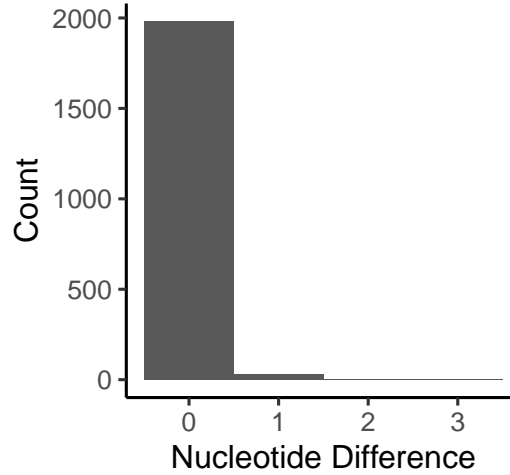
TRBV3-12*ap01

6003 sequences assigned
5964 (99.4%) exact matches, in which:
5923 unique CDR3
13 unique J



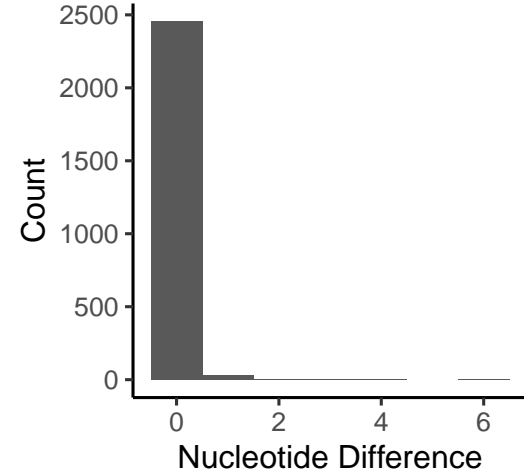
TRBV4-2*ap01

2021 sequences assigned
1981 (98%) exact matches, in which:
1939 unique CDR3
13 unique J



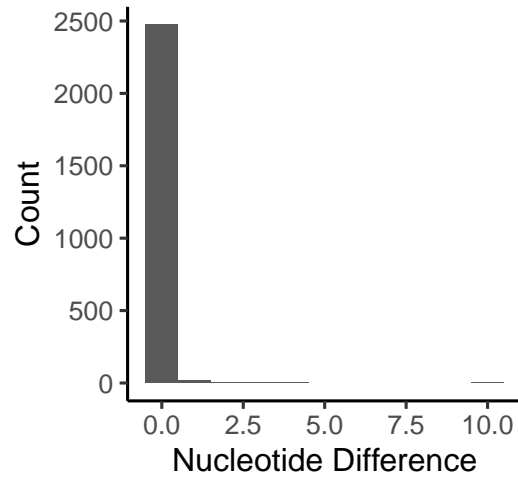
TRBV25-1*ap01

2498 sequences assigned
2455 (98.3%) exact matches, in which:
2419 unique CDR3
13 unique J



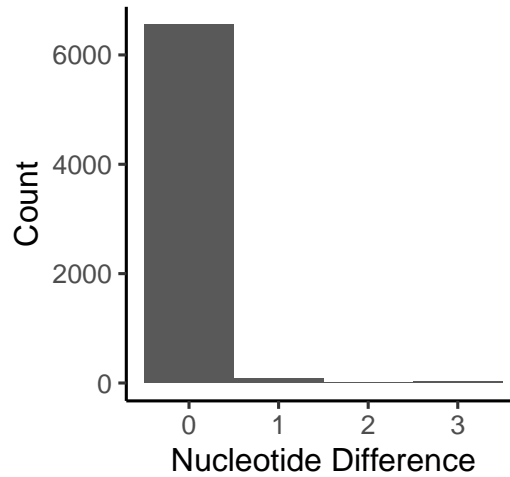
TRBV24-1*ap01

2504 sequences assigned
2474 (98.8%) exact matches, in which:
2442 unique CDR3
13 unique J



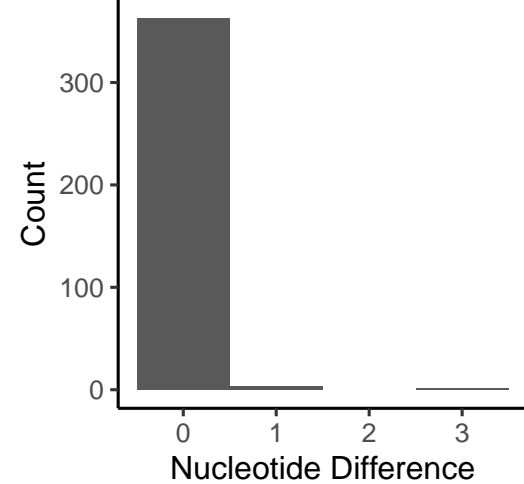
TRBV4-3*ap01

6677 sequences assigned
6552 (98.1%) exact matches, in which:
6422 unique CDR3
13 unique J



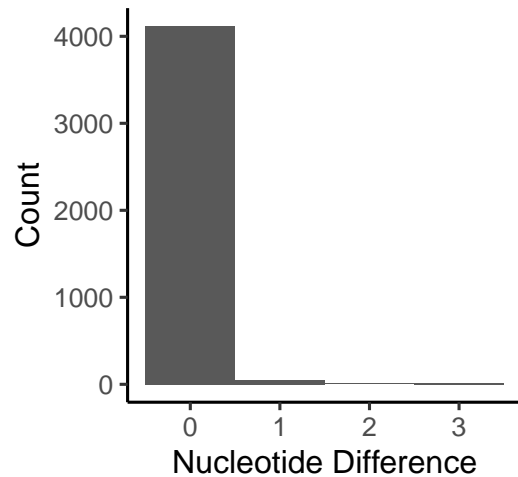
TRBV5-3*ap01

367 sequences assigned
363 (98.9%) exact matches, in which:
357 unique CDR3
13 unique J



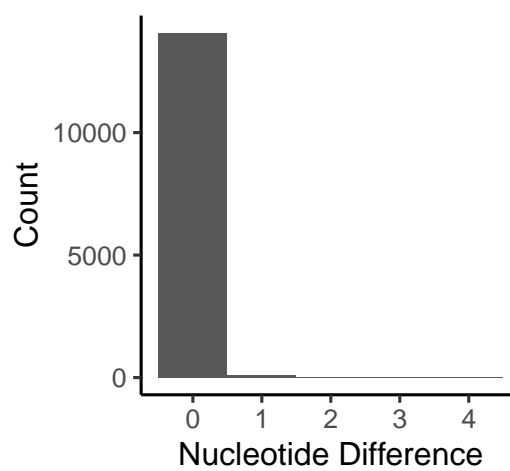
TRBV4-1*ap01

4193 sequences assigned
4118 (98.2%) exact matches, in which:
4023 unique CDR3
13 unique J



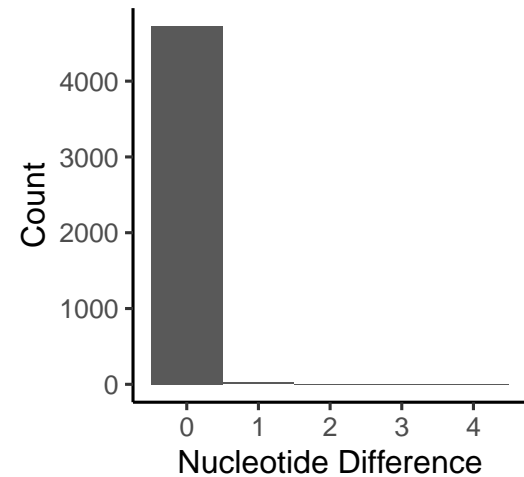
TRBV5-1*ap01

14227 sequences assigned
14075 (98.9%) exact matches, in which:
13840 unique CDR3
13 unique J



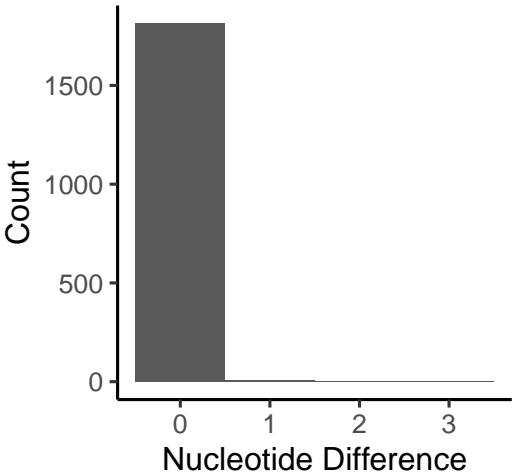
TRBV5-4*ap01

4757 sequences assigned
4727 (99.4%) exact matches, in which:
4684 unique CDR3
13 unique J



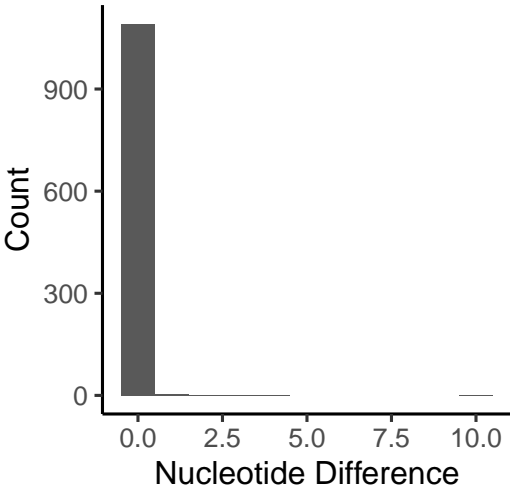
TRBV5-5*ap01

1825 sequences assigned
1814 (99.4%) exact matches, in which:
1804 unique CDR3
13 unique J



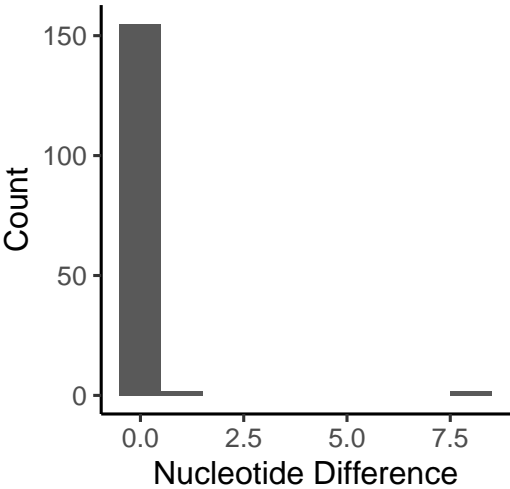
TRBV5-8*ap01

1103 sequences assigned
1092 (99%) exact matches, in which:
1085 unique CDR3
13 unique J



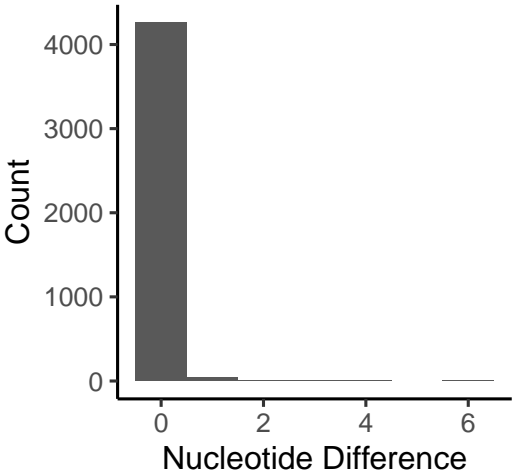
TRBV6-7*ap01

159 sequences assigned
155 (97.5%) exact matches, in which:
155 unique CDR3
13 unique J



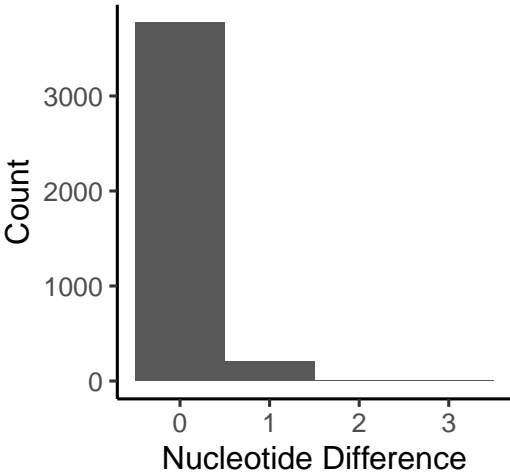
TRBV5-6*ap01

4311 sequences assigned
4259 (98.8%) exact matches, in which:
4187 unique CDR3
13 unique J



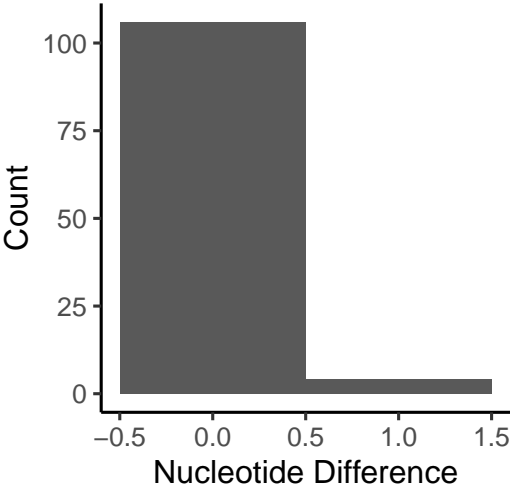
TRBV6-1*ap01

3993 sequences assigned
3771 (94.4%) exact matches, in which:
3698 unique CDR3
13 unique J



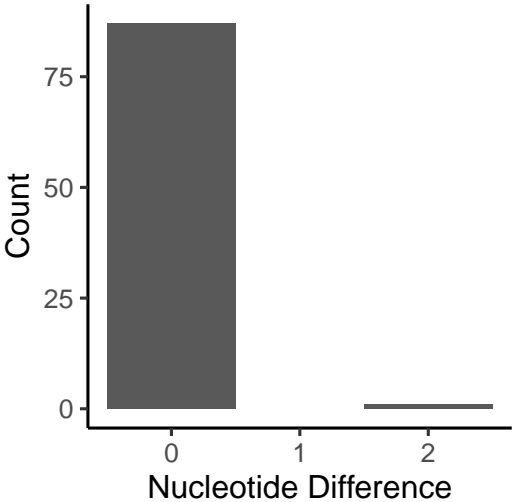
TRBV6-8*ap01

110 sequences assigned
106 (96.4%) exact matches, in which:
105 unique CDR3
13 unique J



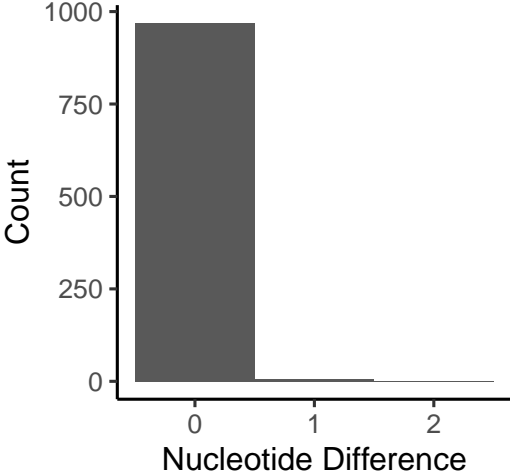
TRBV5-7*ap01

88 sequences assigned
87 (98.9%) exact matches, in which:
84 unique CDR3
13 unique J



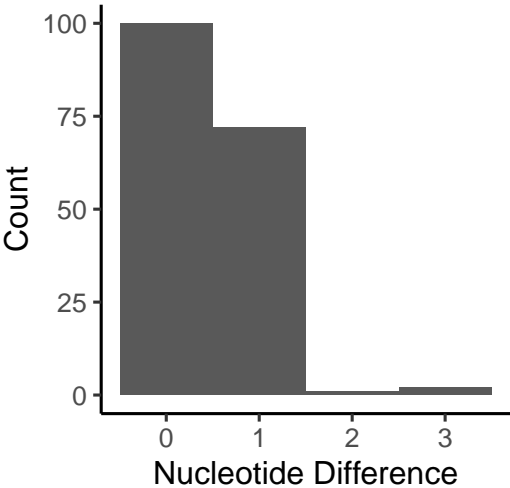
TRBV6-4*ap01

977 sequences assigned
969 (99.2%) exact matches, in which:
962 unique CDR3
13 unique J



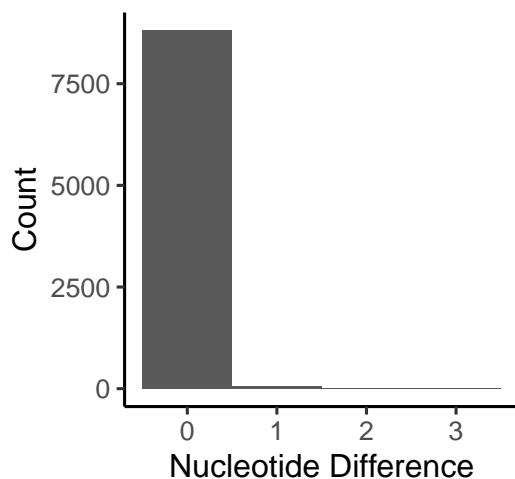
TRBV6-9*ap01

175 sequences assigned
100 (57.1%) exact matches, in which:
99 unique CDR3
13 unique J



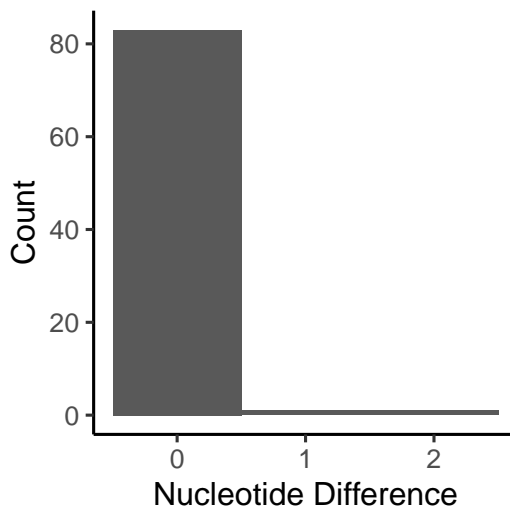
TRBV6-23*ap01

8897 sequences assigned
8811 (99%) exact matches, in which:
8670 unique CDR3
13 unique J



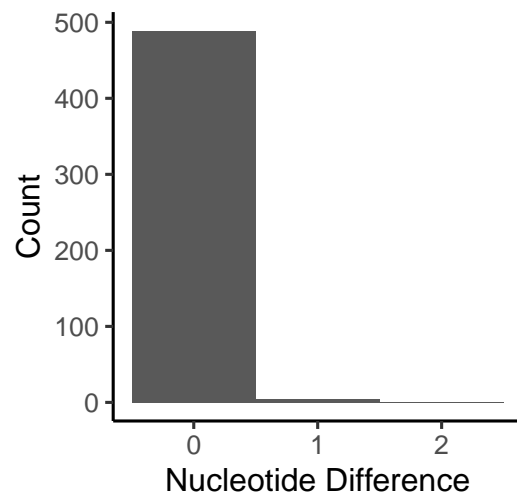
TRBV7-1*ap01_G291C_T

85 sequences assigned
83 (97.6%) exact matches, in which:
83 unique CDR3
13 unique J



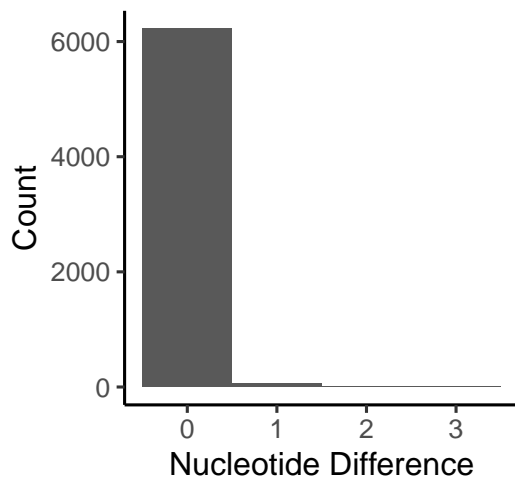
TRBV7-3*ap02

494 sequences assigned
489 (99%) exact matches, in which:
485 unique CDR3
13 unique J



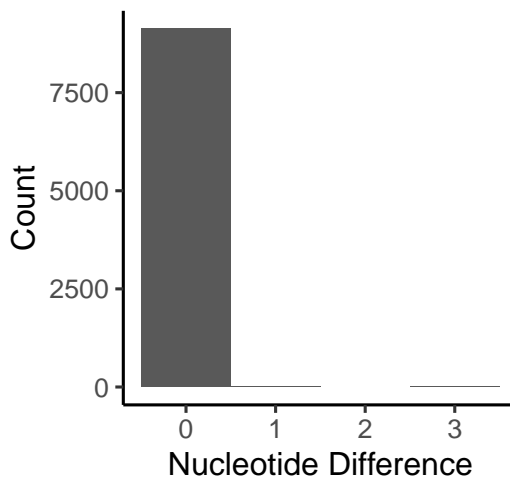
TRBV6-56*ap01

6306 sequences assigned
6223 (98.7%) exact matches, in which:
6072 unique CDR3
13 unique J



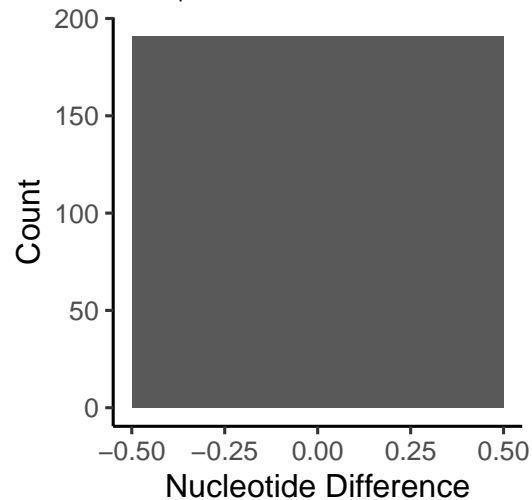
TRBV7-2*ap01

9153 sequences assigned
9129 (99.7%) exact matches, in which:
9068 unique CDR3
13 unique J



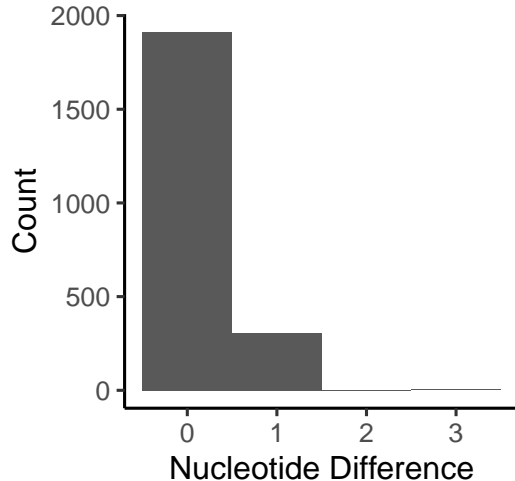
TRBV7-4*ap01

191 sequences assigned
191 (100%) exact matches, in which:
188 unique CDR3
12 unique J



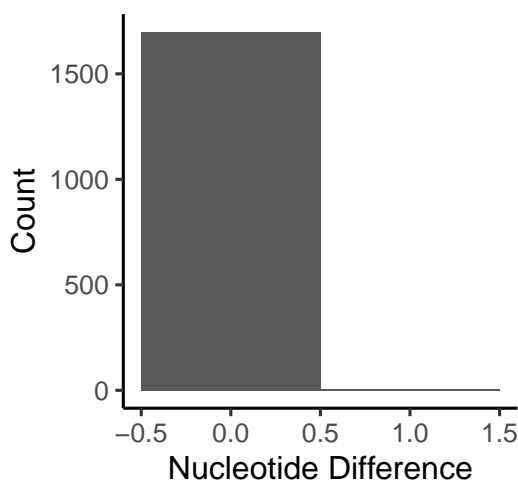
TRBV6-56*ap02

2224 sequences assigned
1912 (86%) exact matches, in which:
1873 unique CDR3
13 unique J



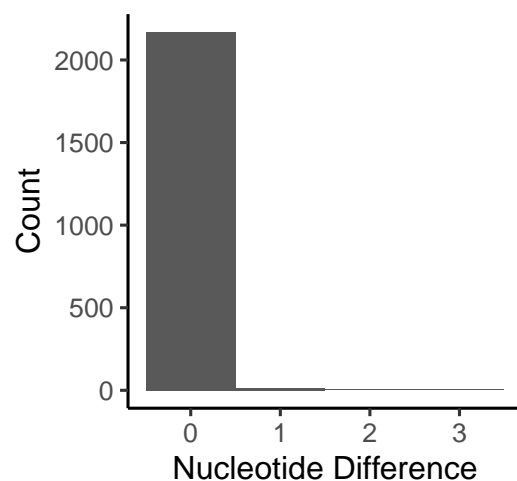
TRBV7-3*ap01

1703 sequences assigned
1698 (99.7%) exact matches, in which:
1691 unique CDR3
13 unique J



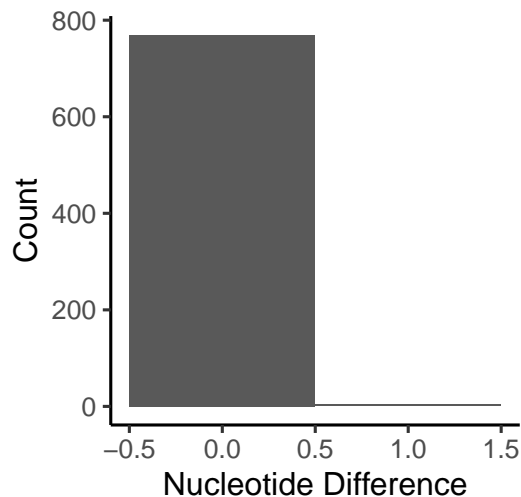
TRBV7-6*ap01

2192 sequences assigned
2169 (99%) exact matches, in which:
2146 unique CDR3
13 unique J



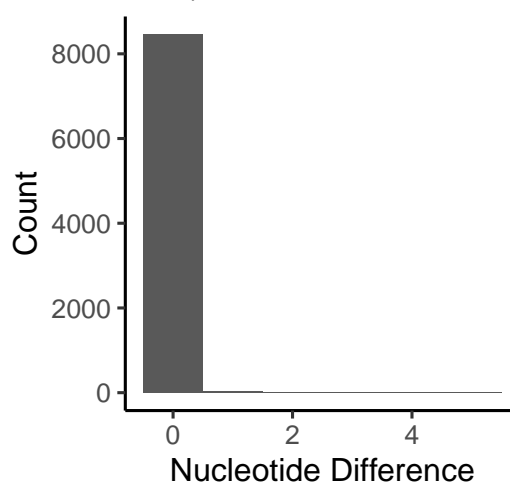
TRBV7-7*ap01_C315T

774 sequences assigned
770 (99.5%) exact matches, in which:
763 unique CDR3
13 unique J



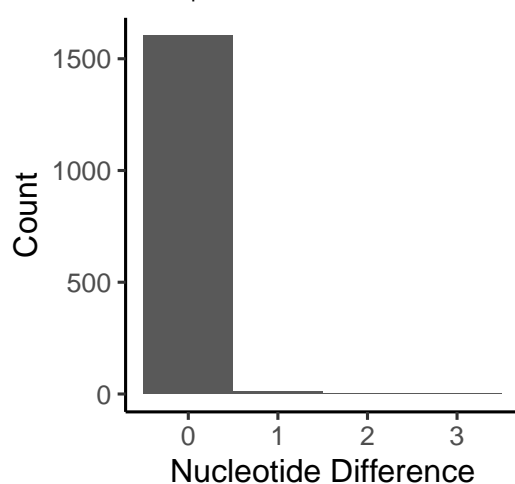
TRBV7-9*ap01

8512 sequences assigned
8458 (99.4%) exact matches, in which:
8342 unique CDR3
13 unique J



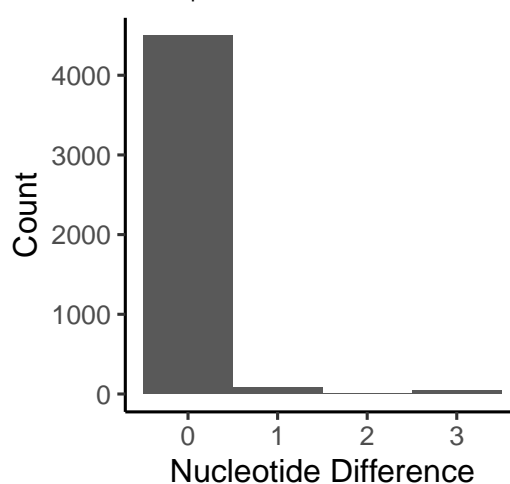
TRBV7-8*ap01

1618 sequences assigned
1603 (99.1%) exact matches, in which:
1593 unique CDR3
13 unique J



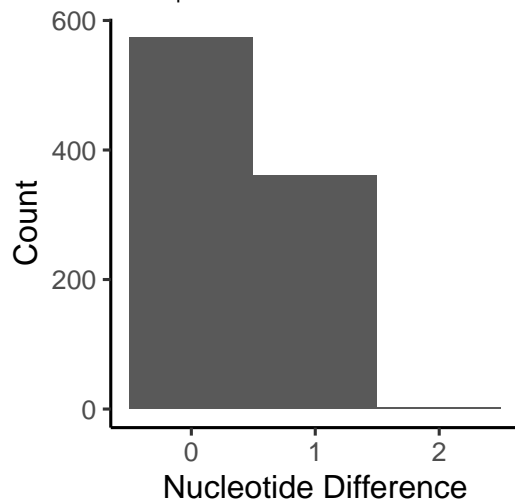
TRBV29-1*ap01

4624 sequences assigned
4496 (97.2%) exact matches, in which:
4378 unique CDR3
13 unique J



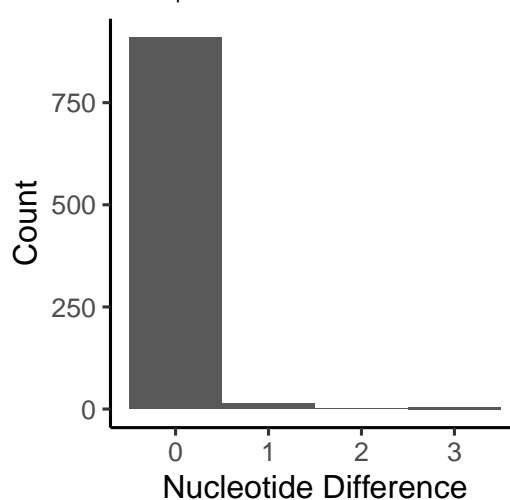
TRBV7-8*ap03

936 sequences assigned
574 (61.3%) exact matches, in which:
573 unique CDR3
13 unique J

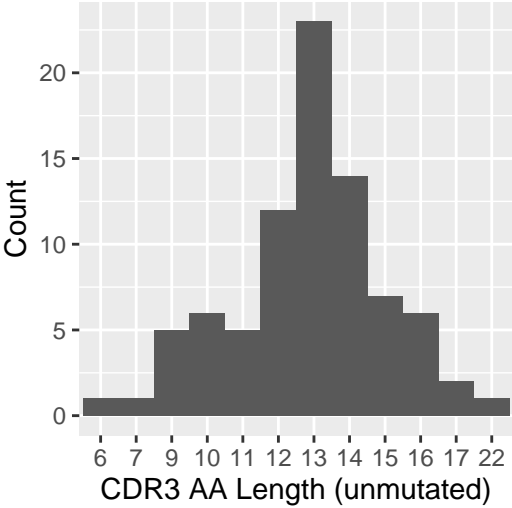


TRBV29-1*ap02

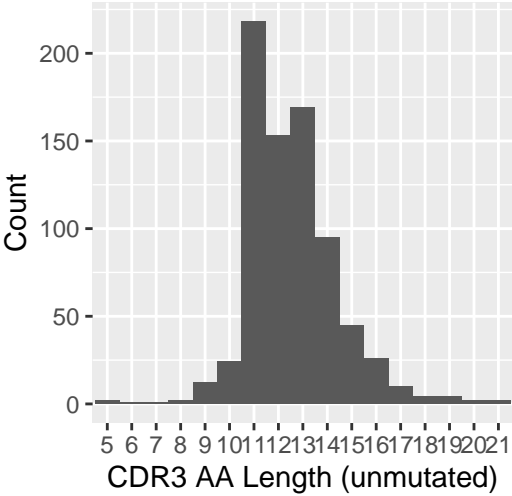
930 sequences assigned
910 (97.8%) exact matches, in which:
888 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]