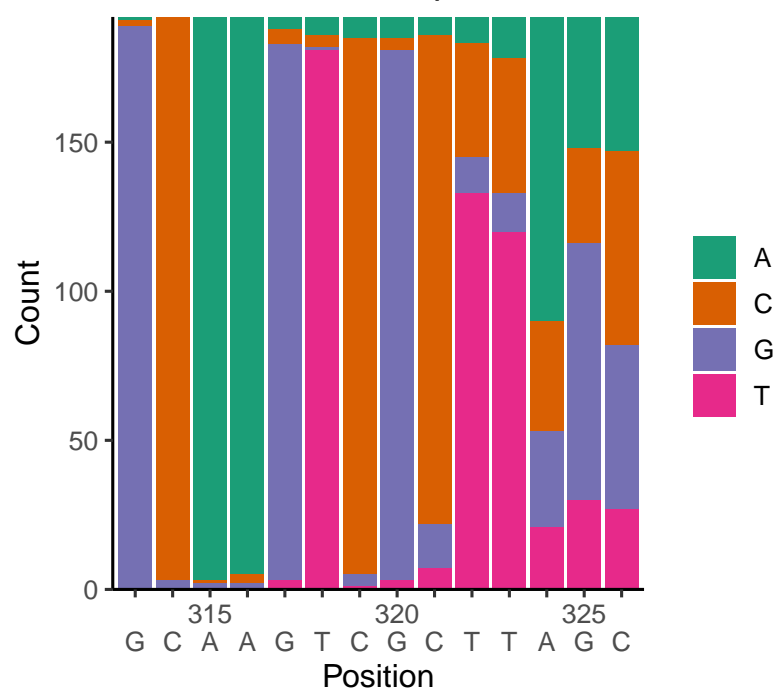
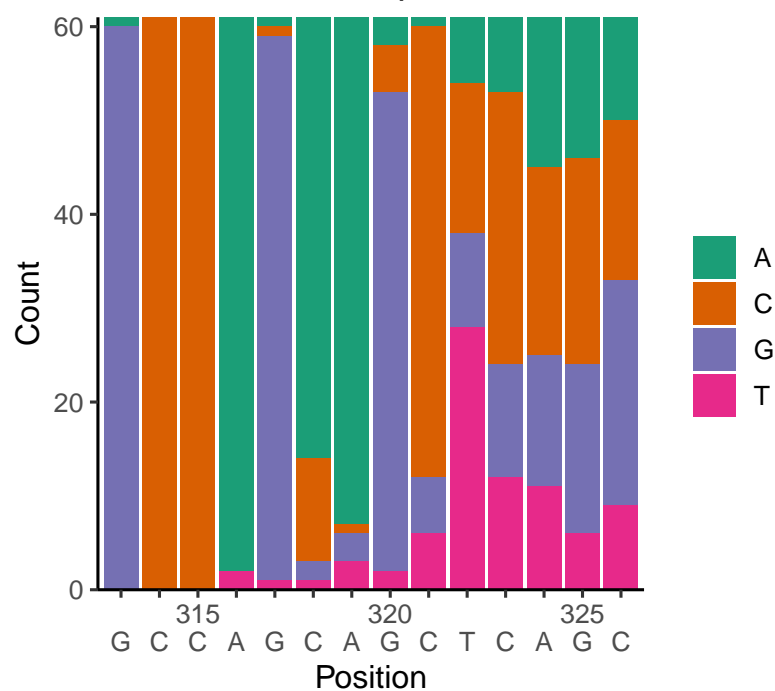


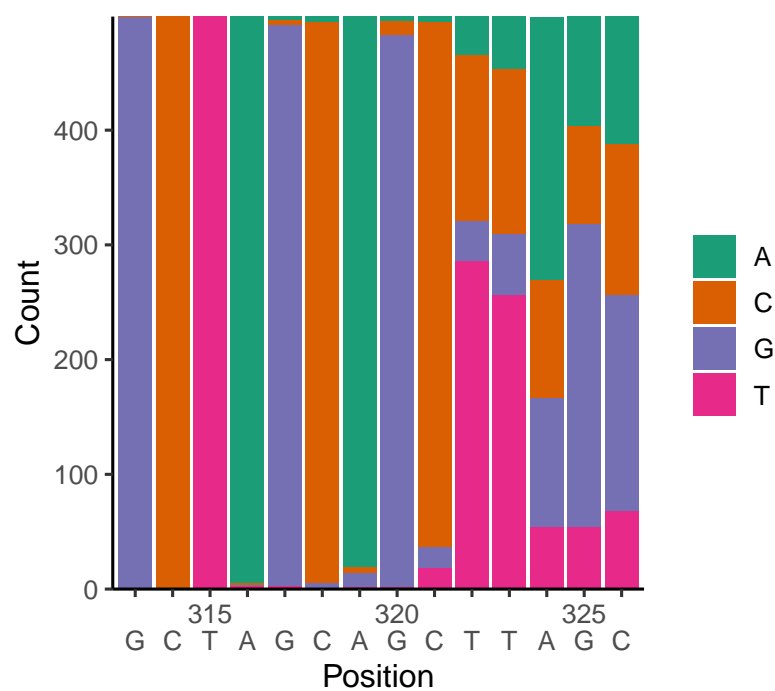
Gene TRBV12-2*ap01_G301A



Gene TRBV7-1*ap01_T296C



Gene TRBV7-7*ap01_C315T



Gene TRBV12-2*ap01_G301A



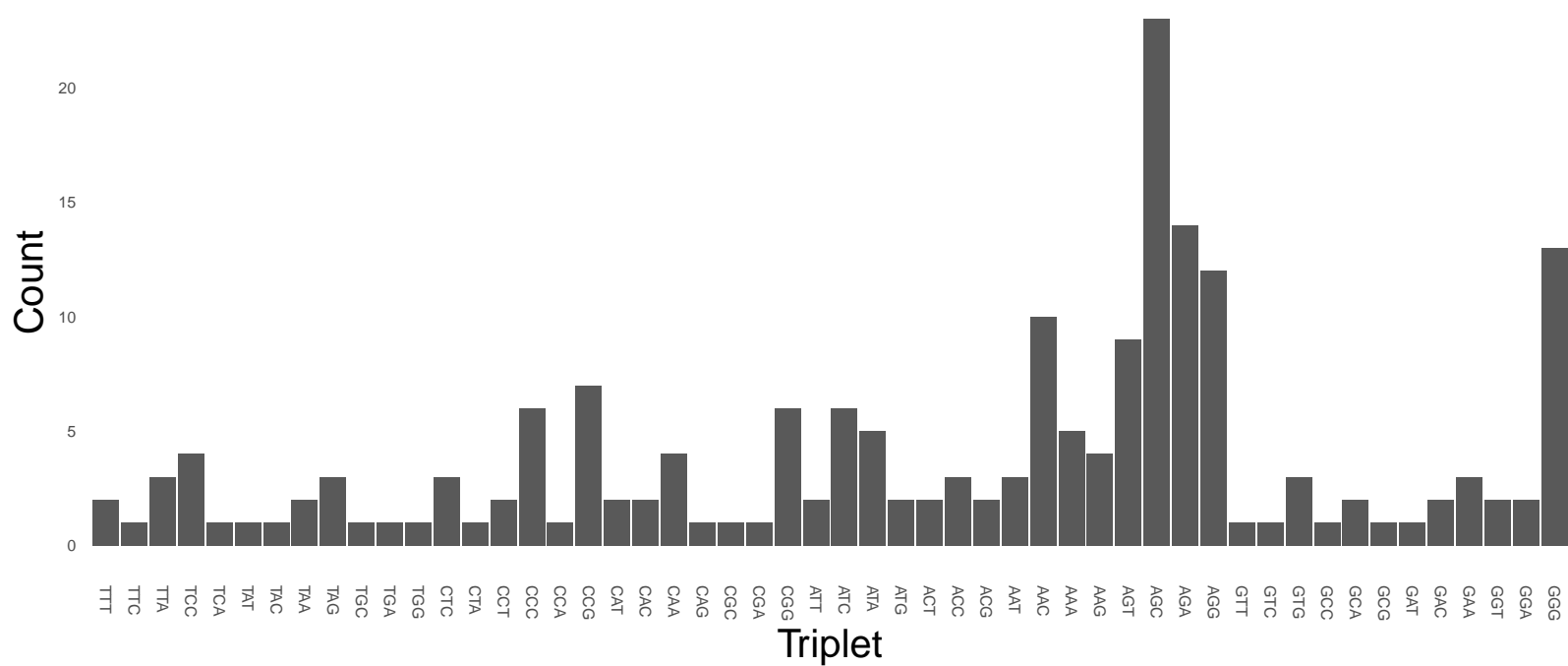
Gene TRBV7-1*ap01_T296C



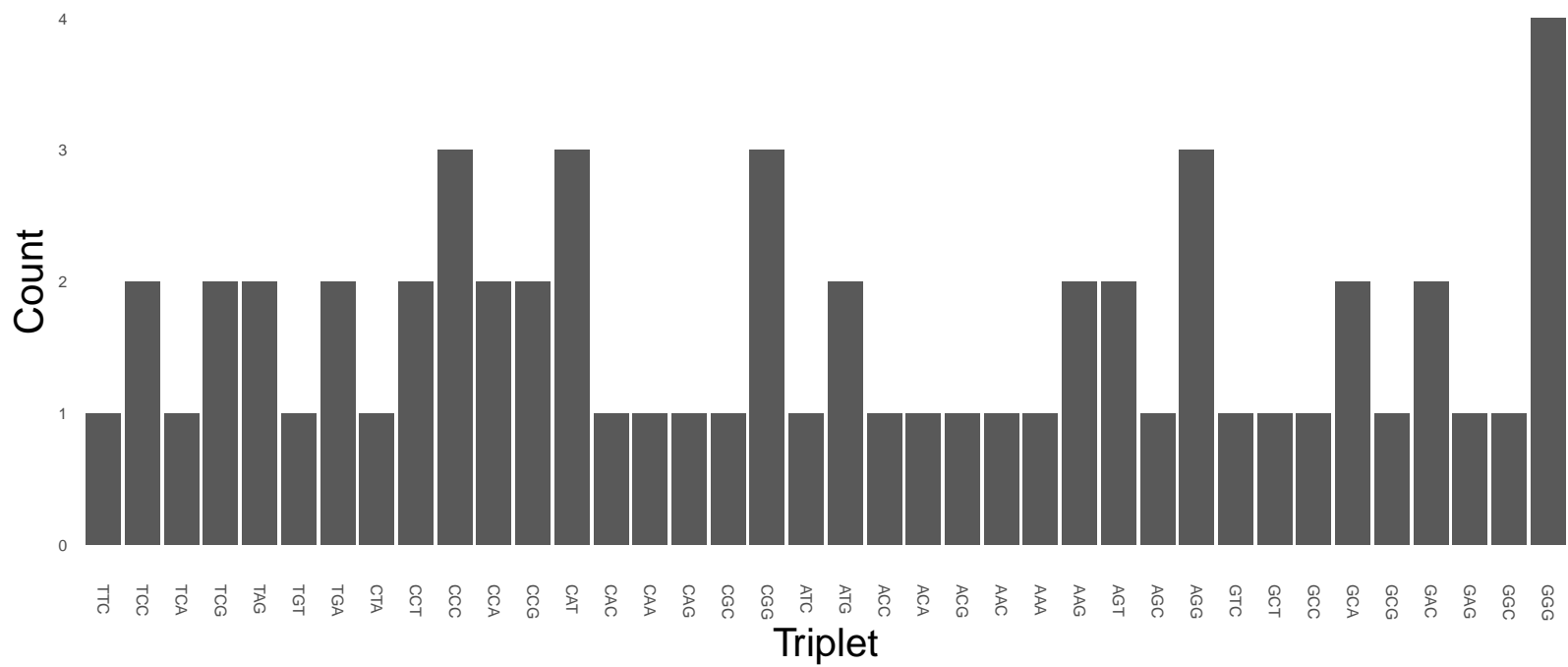
Gene TRBV7-7*ap01_C315T



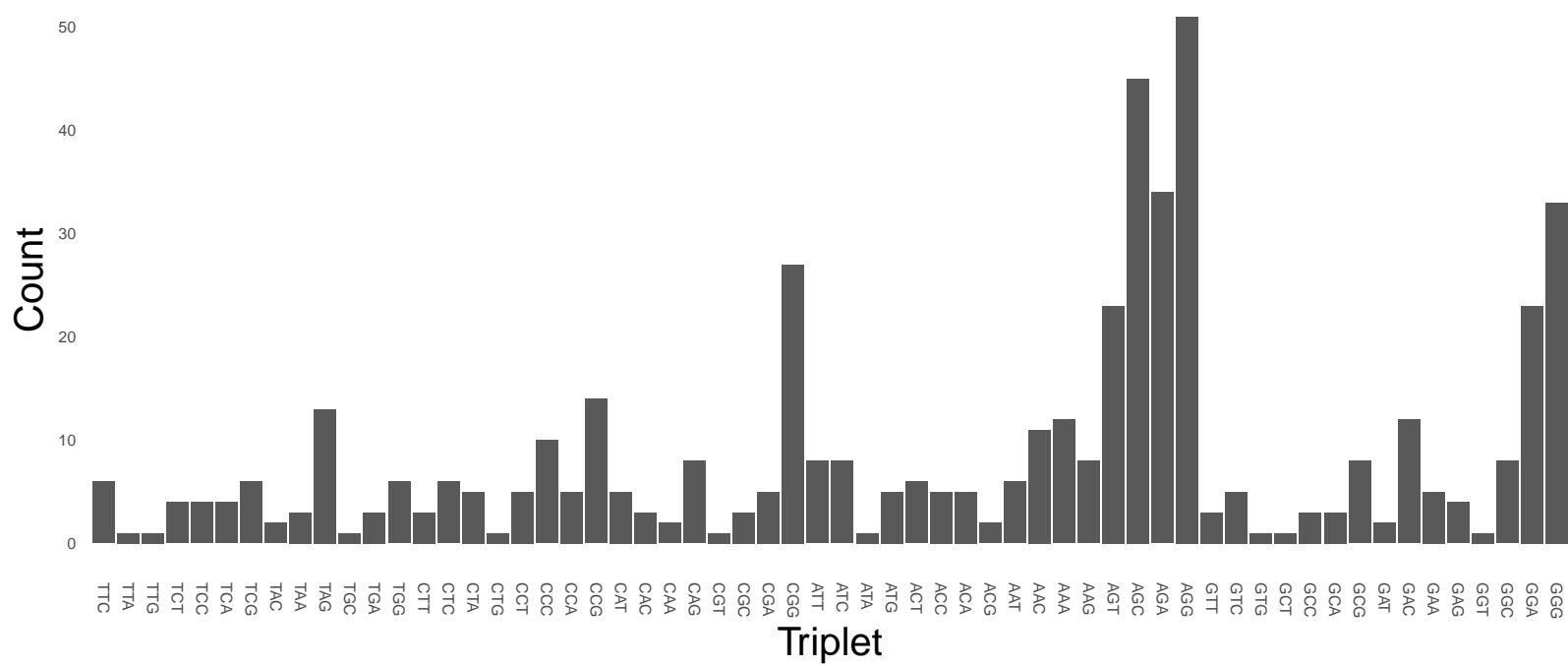
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet

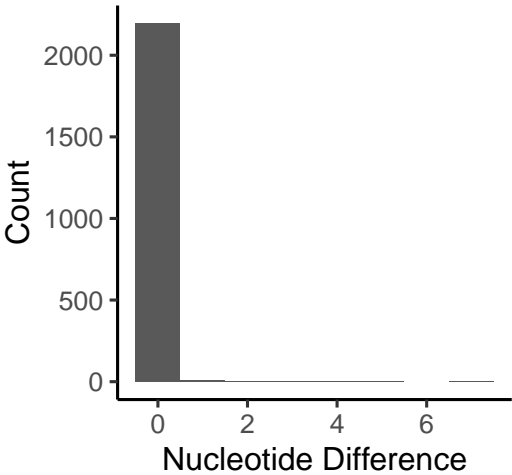


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



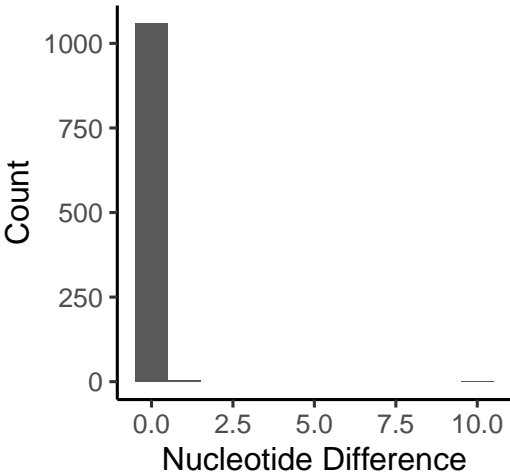
TRBV10-1*ap01

2214 sequences assigned
2195 (99.1%) exact matches, in which:
2186 unique CDR3
13 unique J



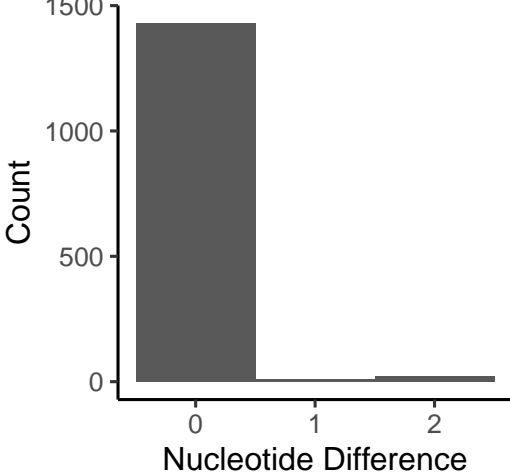
TRBV10-2*ap01

1063 sequences assigned
1059 (99.6%) exact matches, in which:
1055 unique CDR3
13 unique J



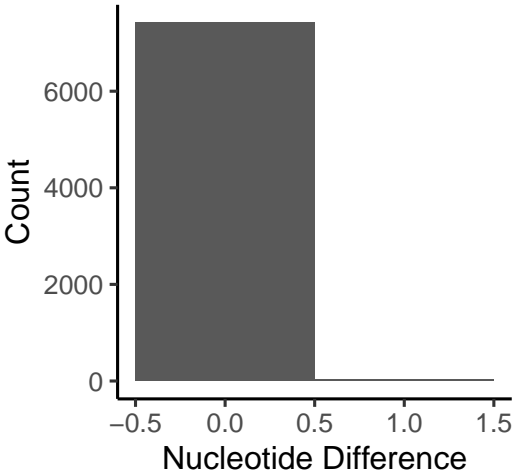
TRBV13*ap01

1462 sequences assigned
1429 (97.7%) exact matches, in which:
1417 unique CDR3
13 unique J



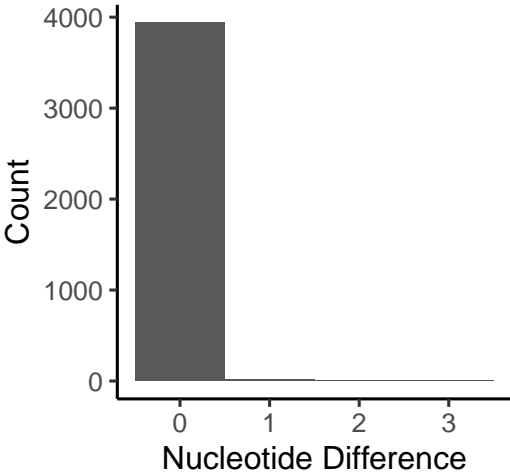
TRBV20-1*ap01

7452 sequences assigned
7418 (99.5%) exact matches, in which:
7386 unique CDR3
13 unique J



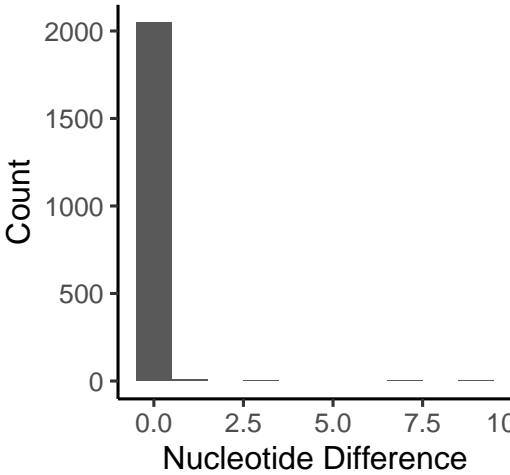
TRBV10-3*ap01

3968 sequences assigned
3939 (99.3%) exact matches, in which:
3924 unique CDR3
13 unique J



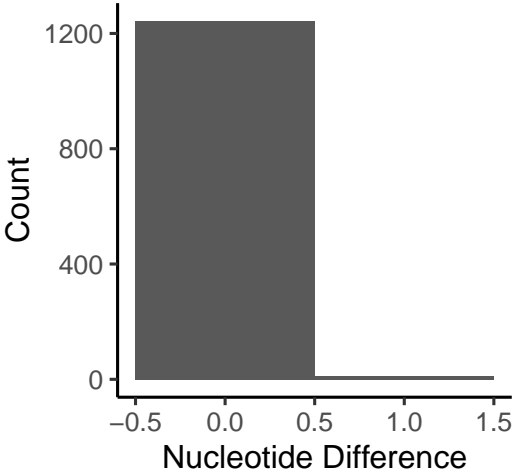
TRBV14*ap01

2057 sequences assigned
2047 (99.5%) exact matches, in which:
2041 unique CDR3
13 unique J



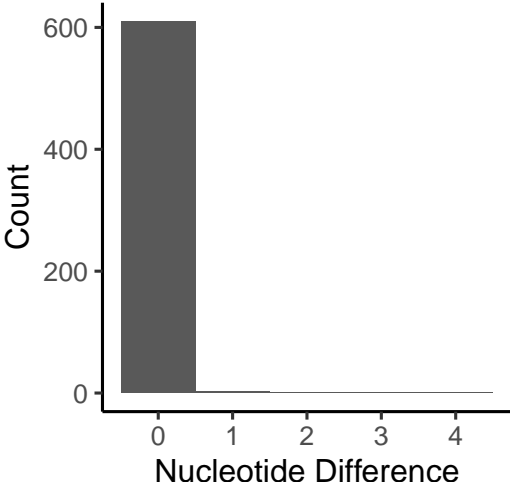
TRBV20-1*ap02

1255 sequences assigned
1243 (99%) exact matches, in which:
1237 unique CDR3
13 unique J



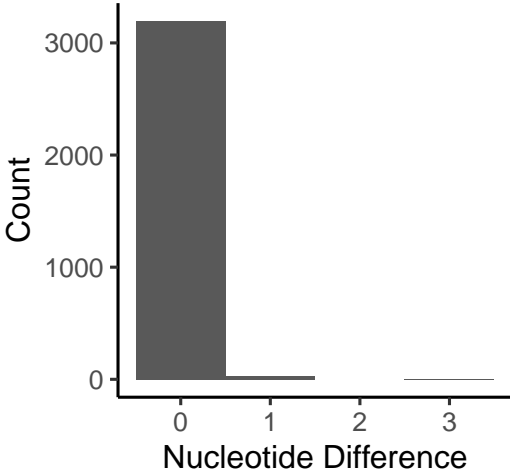
TRBV1*ap01

615 sequences assigned
610 (99.2%) exact matches, in which:
606 unique CDR3
13 unique J



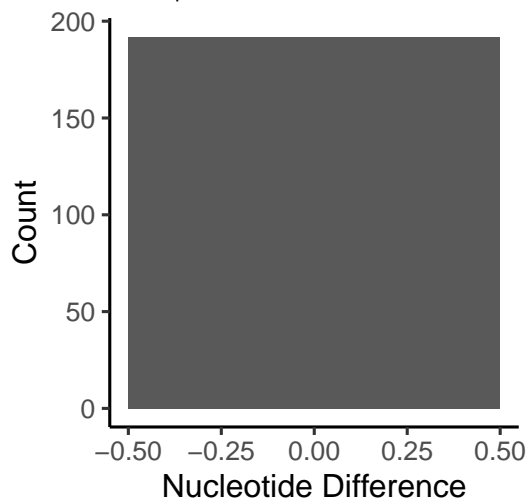
TRBV15*ap02

3223 sequences assigned
3195 (99.1%) exact matches, in which:
3179 unique CDR3
13 unique J



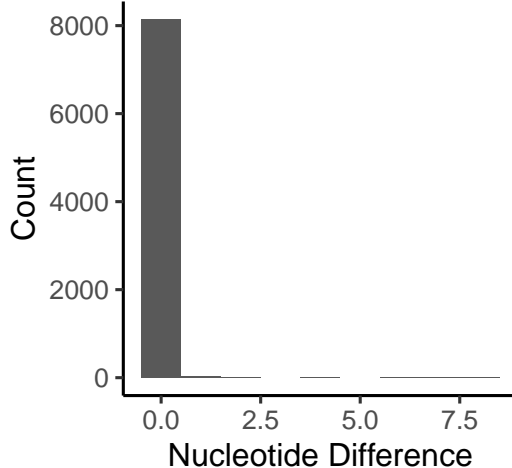
TRBV16*ap01

192 sequences assigned
192 (100%) exact matches, in which:
192 unique CDR3
12 unique J



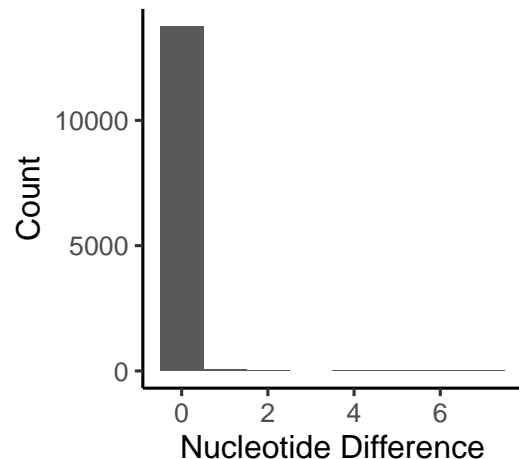
TRBV19*ap01

8198 sequences assigned
8141 (99.3%) exact matches, in which:
8126 unique CDR3
13 unique J



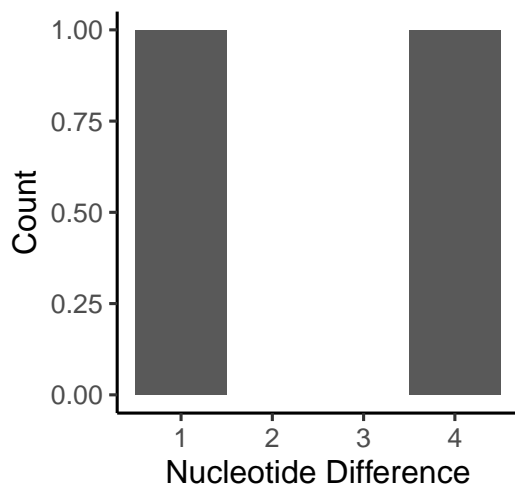
TRBV28*ap01

13827 sequences assigned
13760 (99.5%) exact matches, in which:
13707 unique CDR3
13 unique J



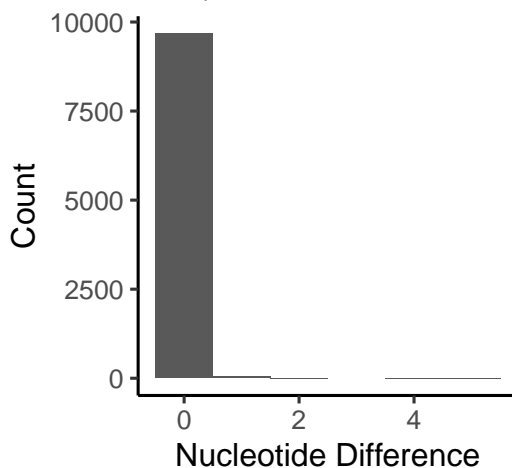
TRBV17*ap01

2 sequences assigned
No exact matches.



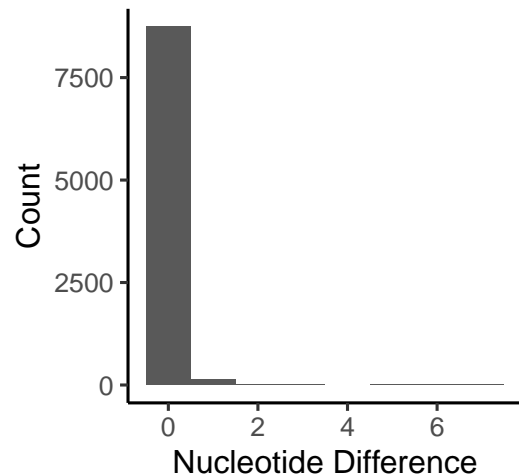
TRBV2*ap01

9737 sequences assigned
9678 (99.4%) exact matches, in which:
9631 unique CDR3
13 unique J



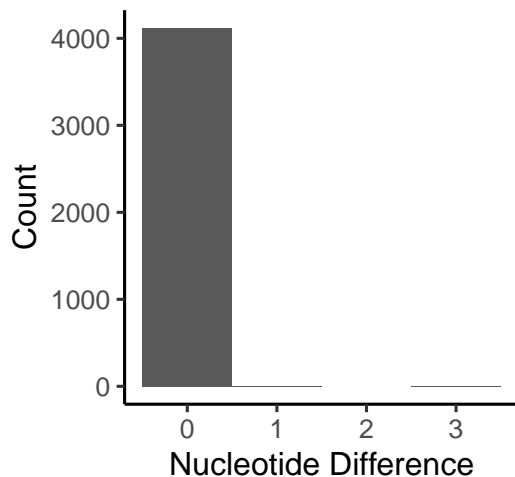
TRBV30*ap01

8893 sequences assigned
8741 (98.3%) exact matches, in which:
8617 unique CDR3
13 unique J



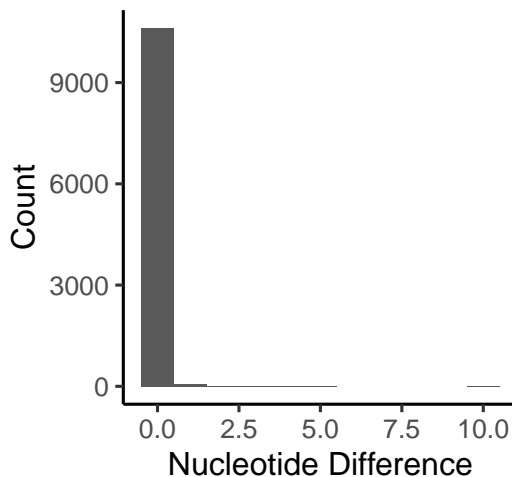
TRBV18*ap01

4124 sequences assigned
4118 (99.9%) exact matches, in which:
4109 unique CDR3
13 unique J



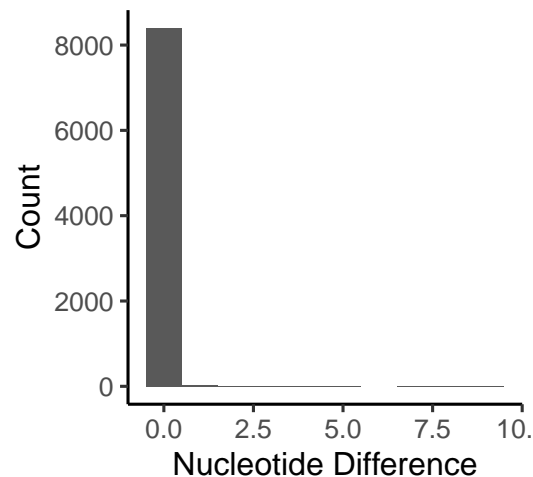
TRBV27*ap01

10698 sequences assigned
10616 (99.2%) exact matches, in which:
10563 unique CDR3
13 unique J



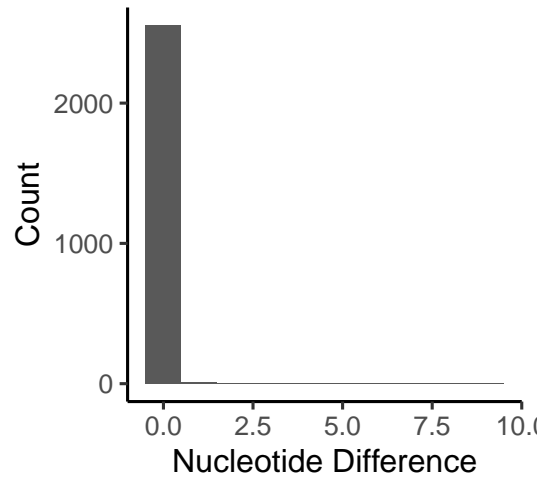
TRBV9*ap01

8434 sequences assigned
8399 (99.6%) exact matches, in which:
8367 unique CDR3
13 unique J



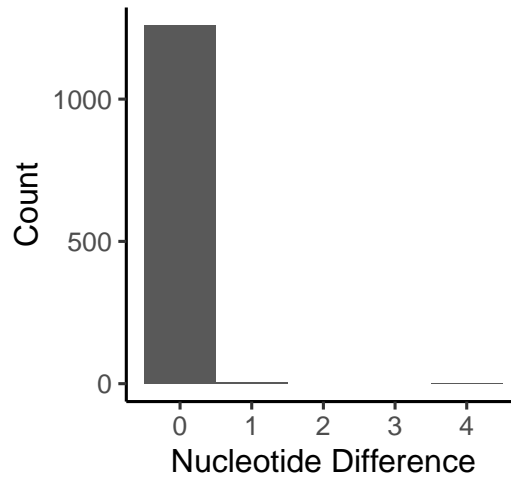
TRBV21-1*ap01

2589 sequences assigned
2554 (98.6%) exact matches, in which:
2550 unique CDR3
13 unique J



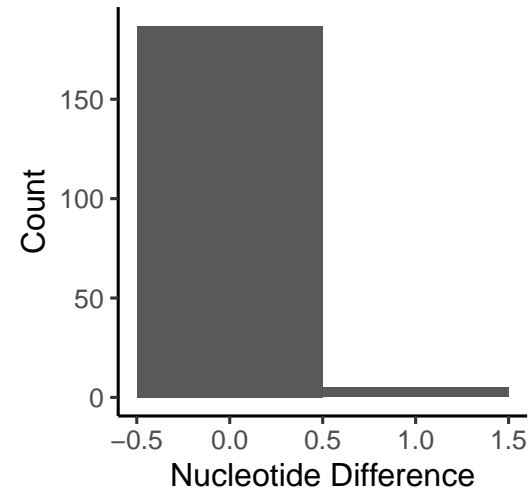
TRBV11-3*ap01

1265 sequences assigned
1259 (99.5%) exact matches, in which:
1255 unique CDR3
13 unique J



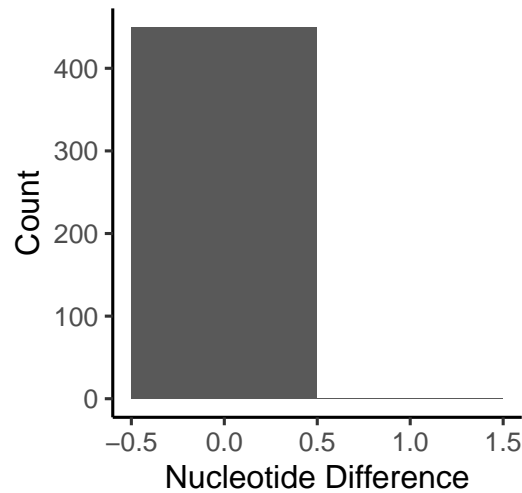
TRBV12-2*ap01_G301A

192 sequences assigned
187 (97.4%) exact matches, in which:
187 unique CDR3
13 unique J



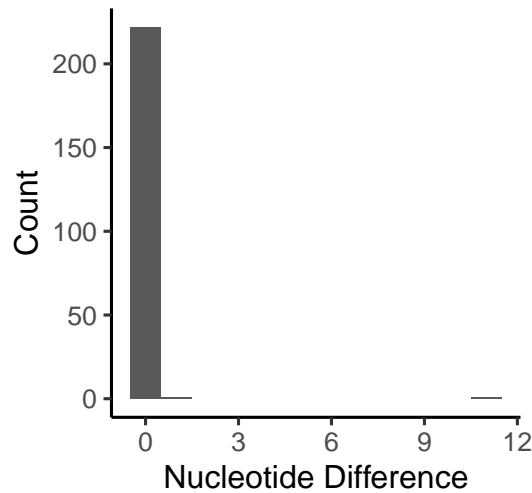
TRBV11-1*ap01

451 sequences assigned
450 (99.8%) exact matches, in which:
447 unique CDR3
13 unique J



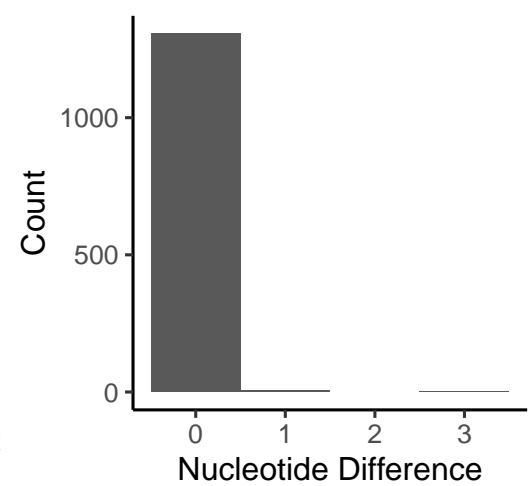
TRBV12-1*ap01

224 sequences assigned
222 (99.1%) exact matches, in which:
220 unique CDR3
13 unique J



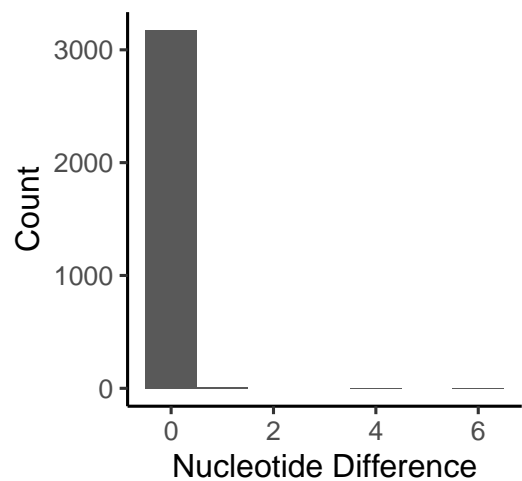
TRBV12-5*ap01

1312 sequences assigned
1306 (99.5%) exact matches, in which:
1302 unique CDR3
13 unique J



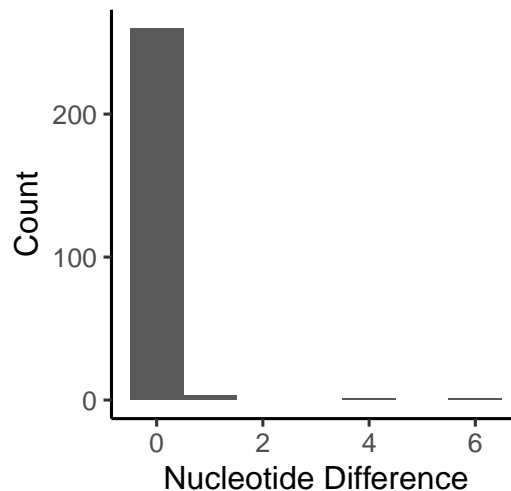
TRBV11-2*ap01

3186 sequences assigned
3175 (99.7%) exact matches, in which:
3171 unique CDR3
13 unique J



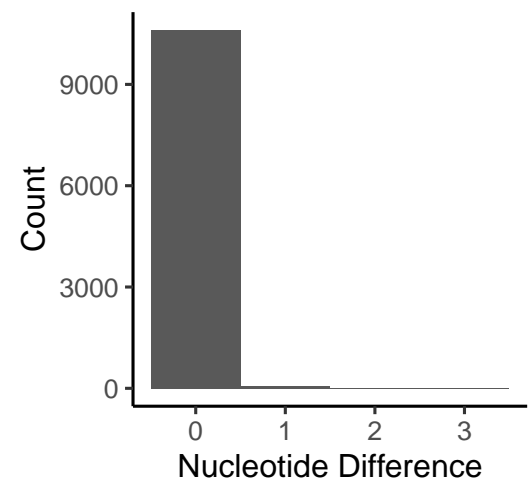
TRBV12-2*ap01

265 sequences assigned
260 (98.1%) exact matches, in which:
258 unique CDR3
13 unique J



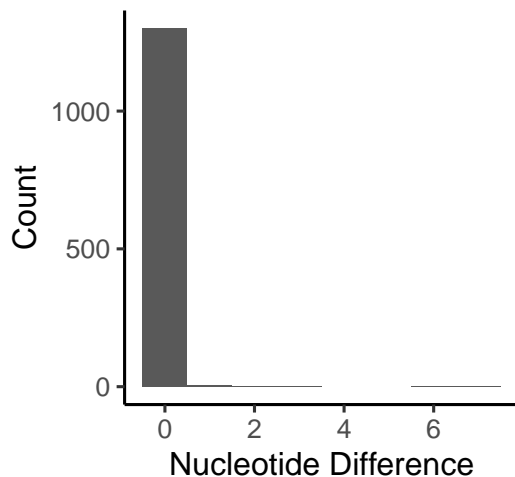
TRBV12-34*ap01

10673 sequences assigned
10609 (99.4%) exact matches, in which:
10553 unique CDR3
13 unique J



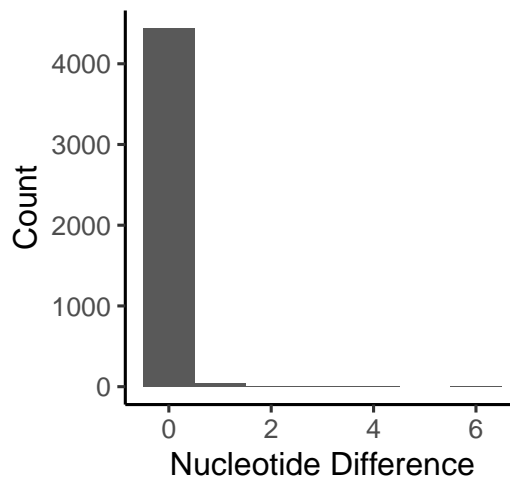
TRBV23-1*ap01

1313 sequences assigned
1300 (99%) exact matches, in which:
1296 unique CDR3
13 unique J



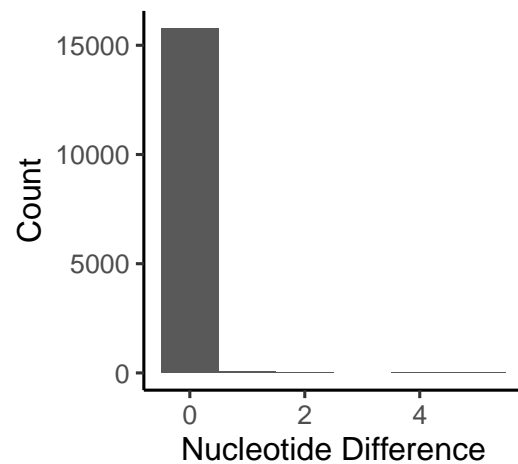
TRBV24-1*ap01

4483 sequences assigned
4438 (99%) exact matches, in which:
4418 unique CDR3
13 unique J



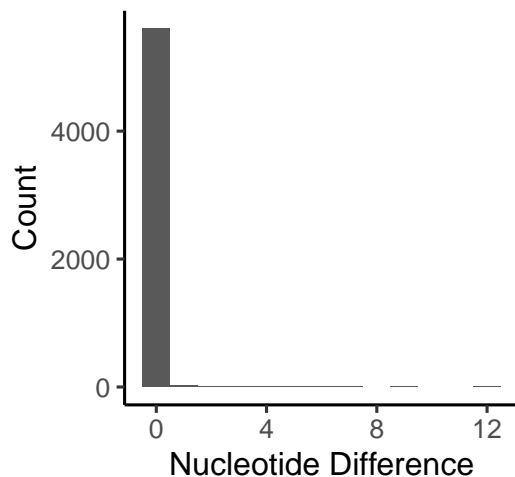
TRBV5-1*ap01

15861 sequences assigned
15784 (99.5%) exact matches, in which:
15678 unique CDR3
13 unique J



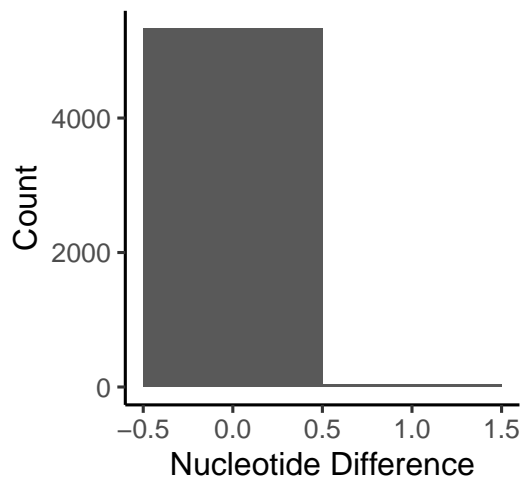
TRBV3-12*ap01

5631 sequences assigned
5601 (99.5%) exact matches, in which:
5590 unique CDR3
13 unique J



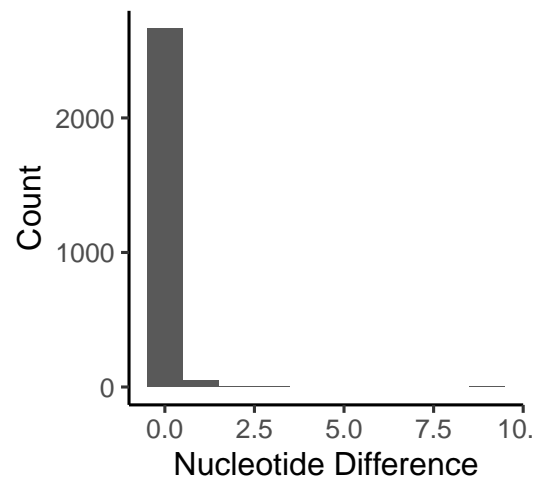
TRBV4-2*ap01

5360 sequences assigned
5328 (99.4%) exact matches, in which:
5303 unique CDR3
13 unique J



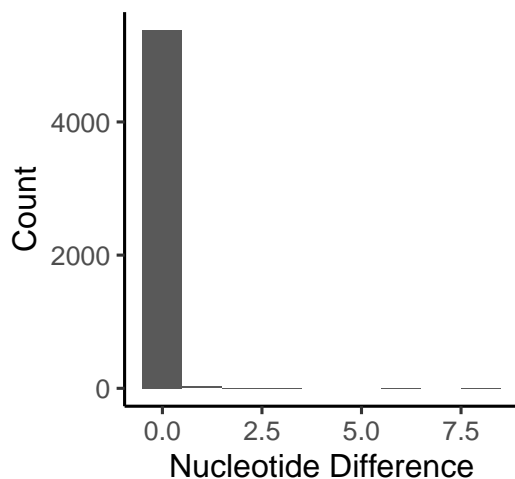
TRBV25-1*ap01

2715 sequences assigned
2663 (98.1%) exact matches, in which:
2631 unique CDR3
13 unique J



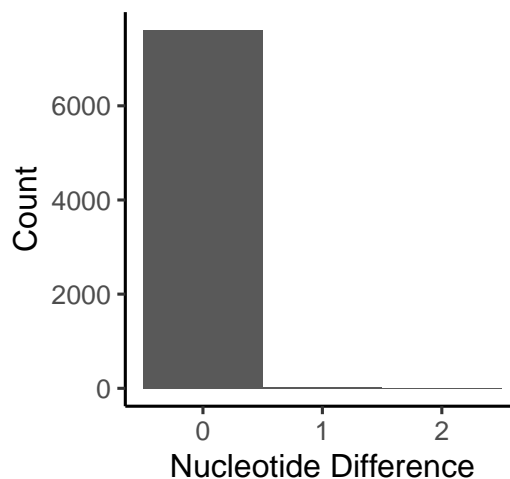
TRBV4-1*ap01

5415 sequences assigned
5380 (99.4%) exact matches, in which:
5343 unique CDR3
13 unique J



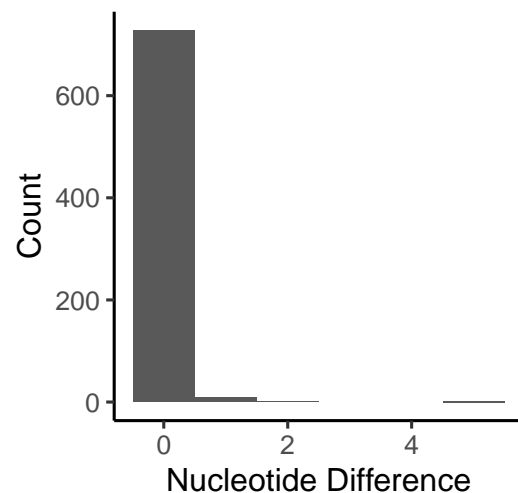
TRBV4-3*ap01

7643 sequences assigned
7609 (99.6%) exact matches, in which:
7572 unique CDR3
13 unique J



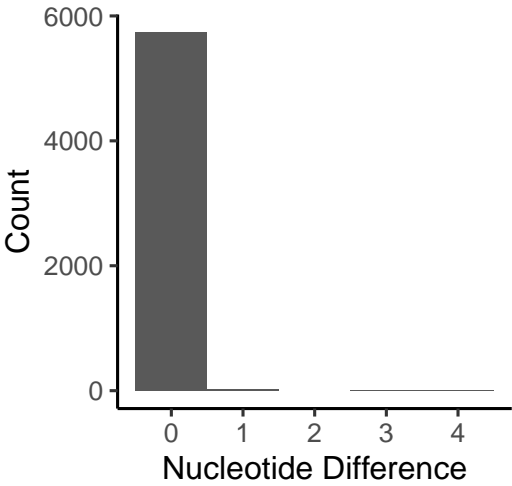
TRBV5-3*ap01

739 sequences assigned
728 (98.5%) exact matches, in which:
726 unique CDR3
13 unique J



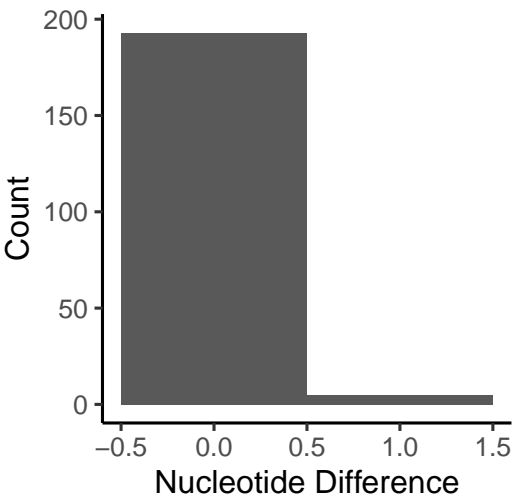
TRBV5-4*ap01

5764 sequences assigned
5736 (99.5%) exact matches, in which:
5701 unique CDR3
13 unique J



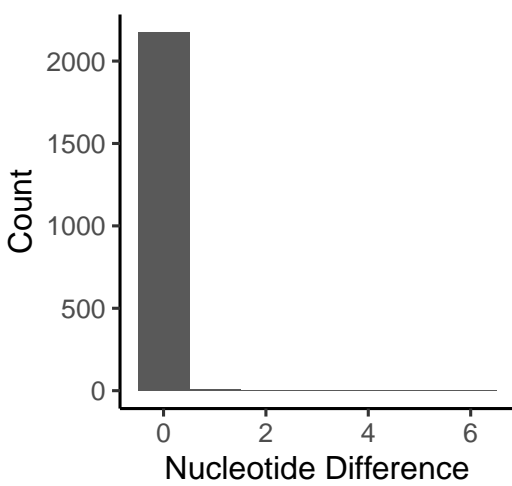
TRBV5-7*ap01

198 sequences assigned
193 (97.5%) exact matches, in which:
189 unique CDR3
13 unique J



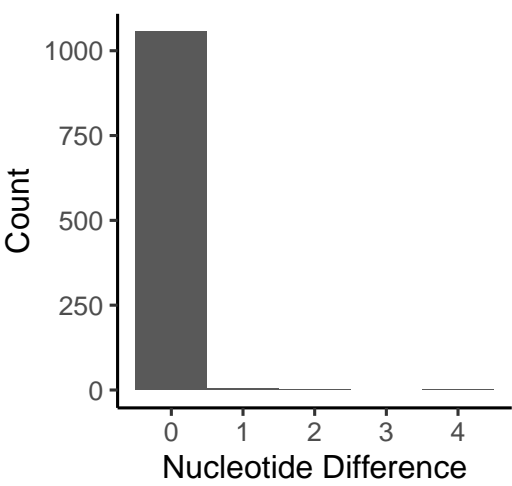
TRBV6-4*ap01

2190 sequences assigned
2174 (99.3%) exact matches, in which:
2161 unique CDR3
13 unique J



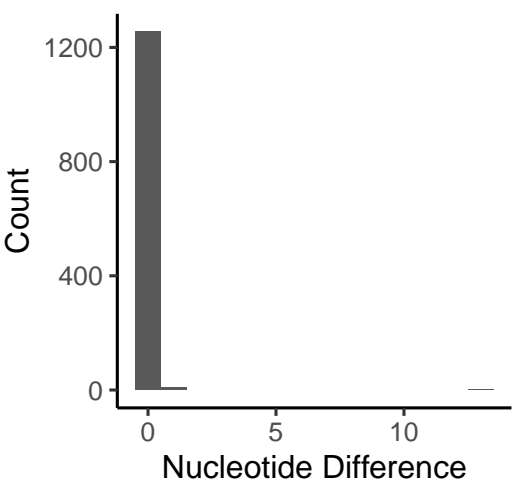
TRBV5-5*ap01

1063 sequences assigned
1056 (99.3%) exact matches, in which:
1056 unique CDR3
13 unique J



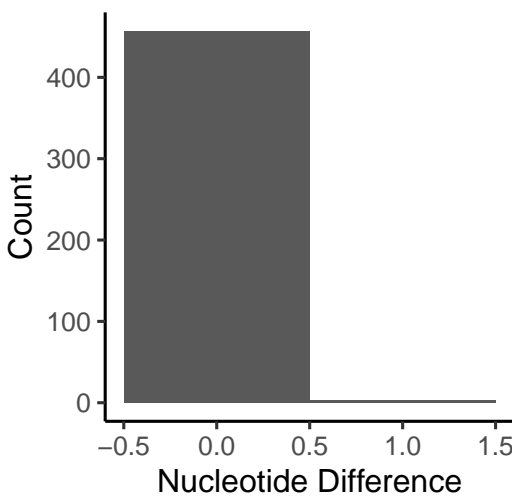
TRBV5-8*ap01

1265 sequences assigned
1255 (99.2%) exact matches, in which:
1252 unique CDR3
13 unique J



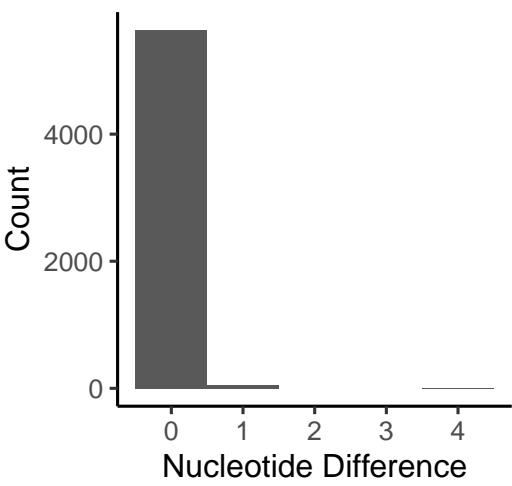
TRBV6-7*ap01

460 sequences assigned
457 (99.3%) exact matches, in which:
452 unique CDR3
13 unique J



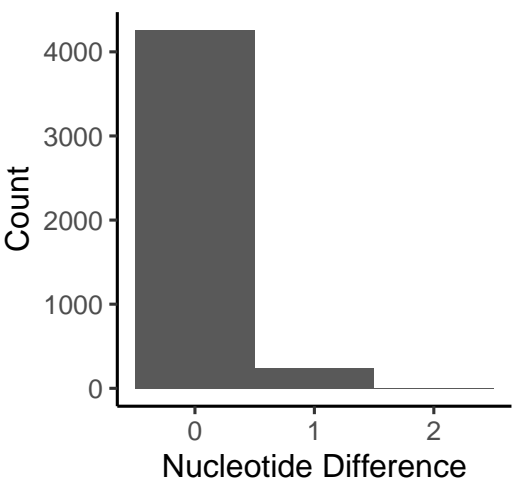
TRBV5-6*ap01

5693 sequences assigned
5638 (99%) exact matches, in which:
5575 unique CDR3
13 unique J



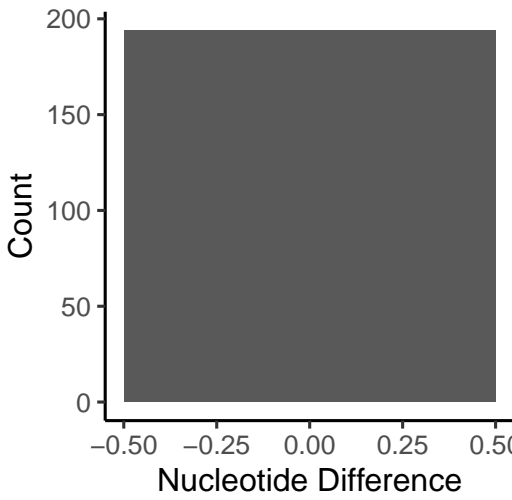
TRBV6-1*ap01

4501 sequences assigned
4259 (94.6%) exact matches, in which:
4218 unique CDR3
13 unique J



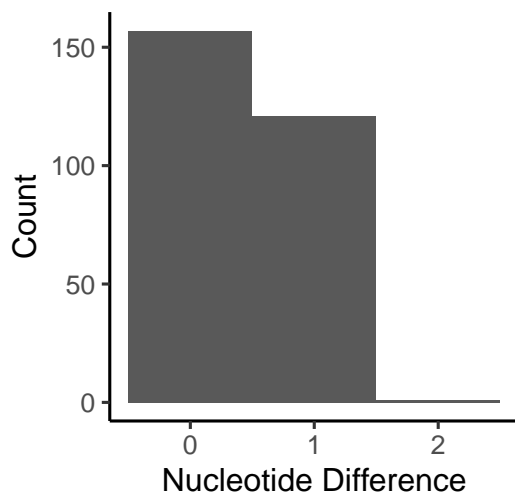
TRBV6-8*ap01

194 sequences assigned
194 (100%) exact matches, in which:
192 unique CDR3
13 unique J



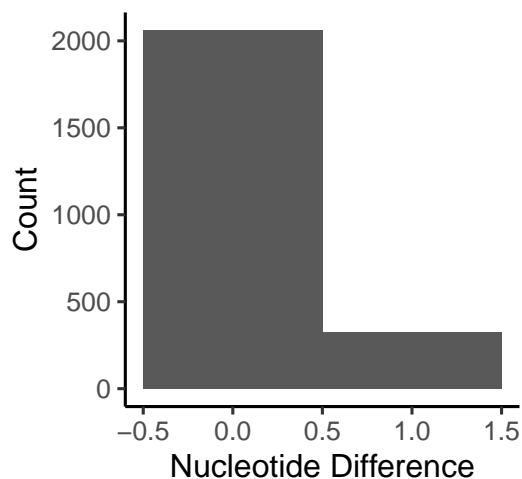
TRBV6-9*ap01

279 sequences assigned
157 (56.3%) exact matches, in which:
155 unique CDR3
13 unique J



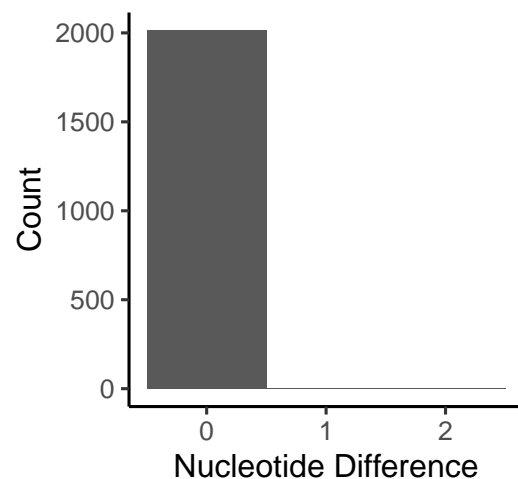
TRBV6-56*ap02

2385 sequences assigned
2060 (86.4%) exact matches, in which:
2039 unique CDR3
13 unique J



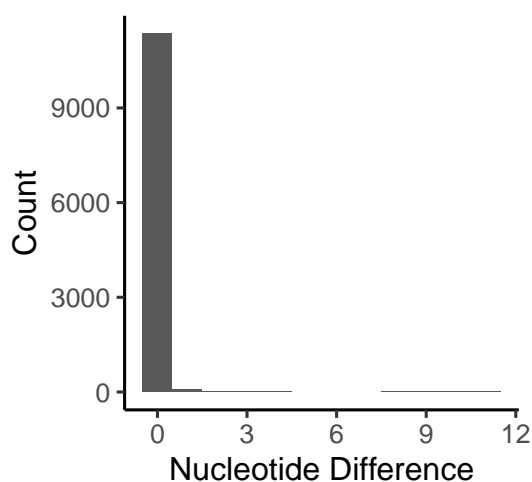
TRBV7-3*ap01

2021 sequences assigned
2014 (99.7%) exact matches, in which:
2007 unique CDR3
13 unique J



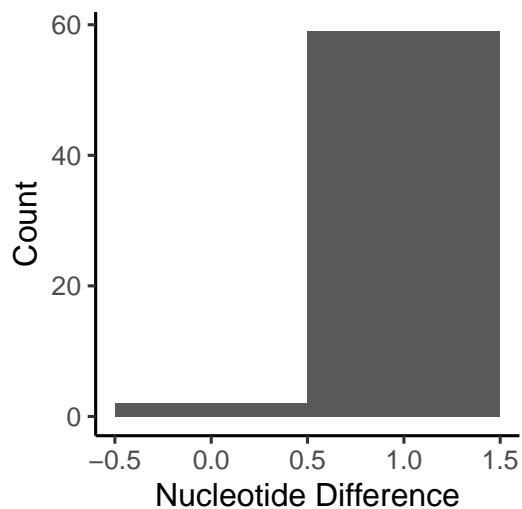
TRBV6-23*ap01

11457 sequences assigned
11350 (99.1%) exact matches, in which:
11219 unique CDR3
13 unique J



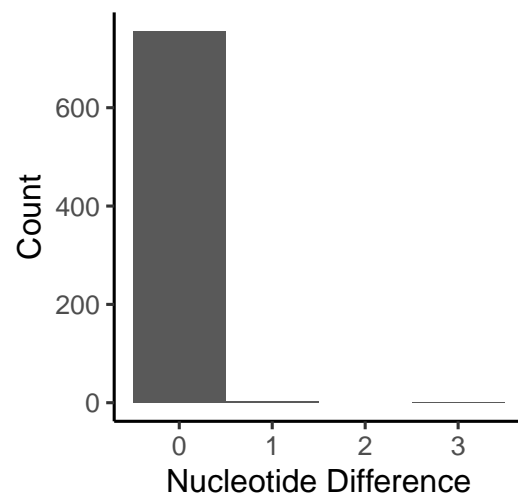
TRBV7-1*ap01_T296C

61 sequences assigned
2 (3.3%) exact matches, in which:
2 unique CDR3
2 unique J



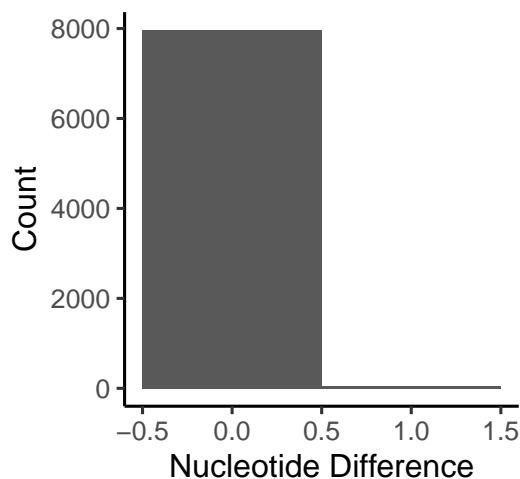
TRBV7-3*ap02

761 sequences assigned
756 (99.3%) exact matches, in which:
754 unique CDR3
13 unique J



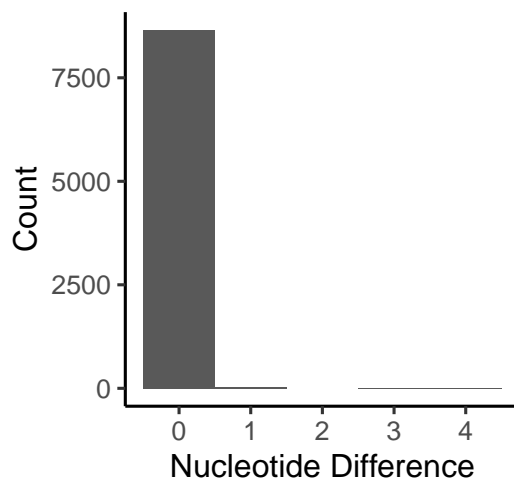
TRBV6-56*ap01

8016 sequences assigned
7966 (99.4%) exact matches, in which:
7883 unique CDR3
13 unique J



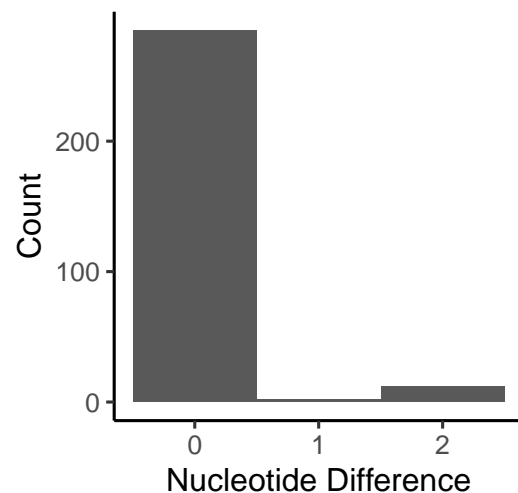
TRBV7-2*ap01

8683 sequences assigned
8653 (99.7%) exact matches, in which:
8637 unique CDR3
13 unique J



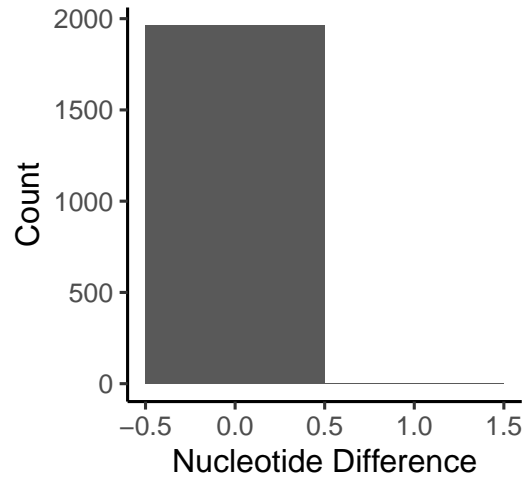
TRBV7-4*ap01

299 sequences assigned
285 (95.3%) exact matches, in which:
284 unique CDR3
13 unique J



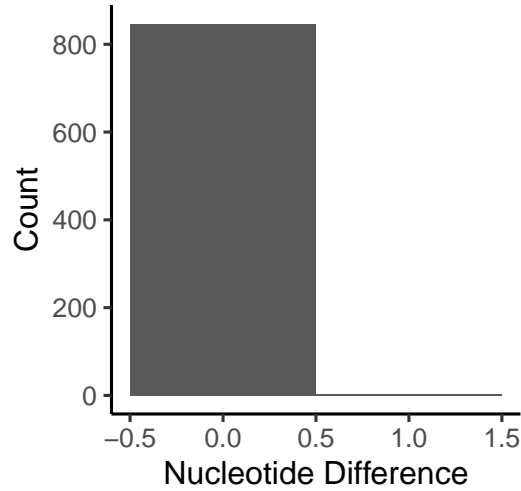
TRBV7-6*ap01

1966 sequences assigned
1963 (99.8%) exact matches, in which:
1955 unique CDR3
13 unique J



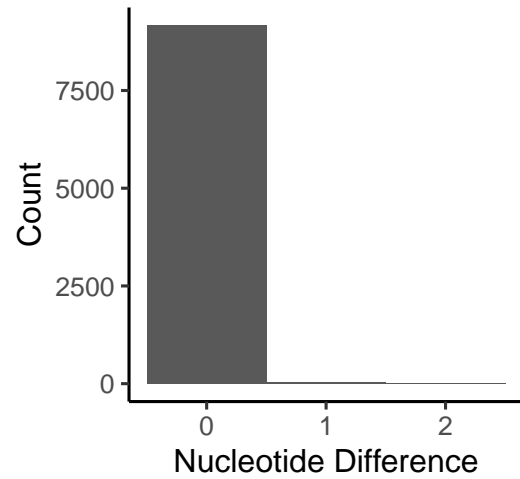
TRBV7-8*ap01

851 sequences assigned
847 (99.5%) exact matches, in which:
841 unique CDR3
13 unique J



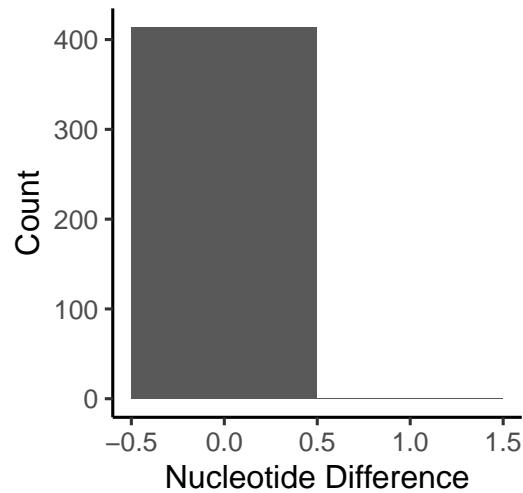
TRBV7-9*ap01

9194 sequences assigned
9165 (99.7%) exact matches, in which:
9124 unique CDR3
13 unique J



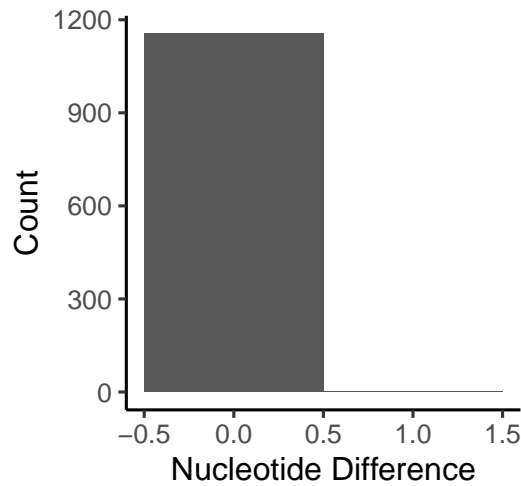
TRBV7-7*ap01

415 sequences assigned
414 (99.8%) exact matches, in which:
413 unique CDR3
13 unique J



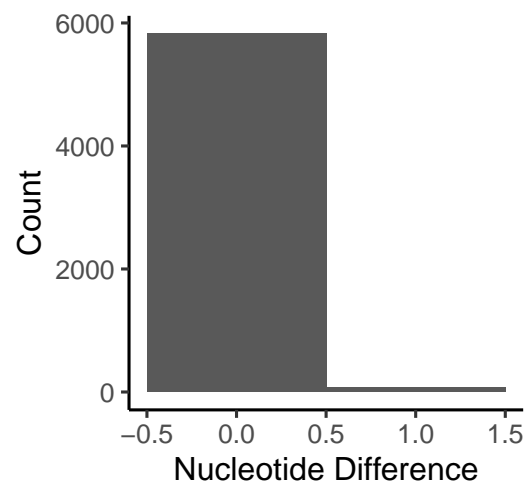
TRBV7-8*ap02

1156 sequences assigned
1155 (99.9%) exact matches, in which:
1150 unique CDR3
13 unique J



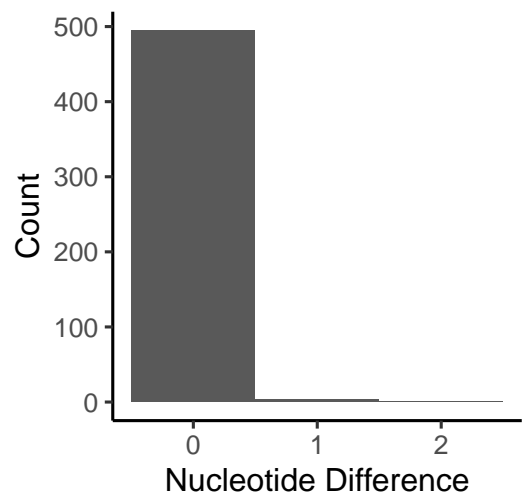
TRBV29-1*ap01

5898 sequences assigned
5825 (98.8%) exact matches, in which:
5745 unique CDR3
13 unique J



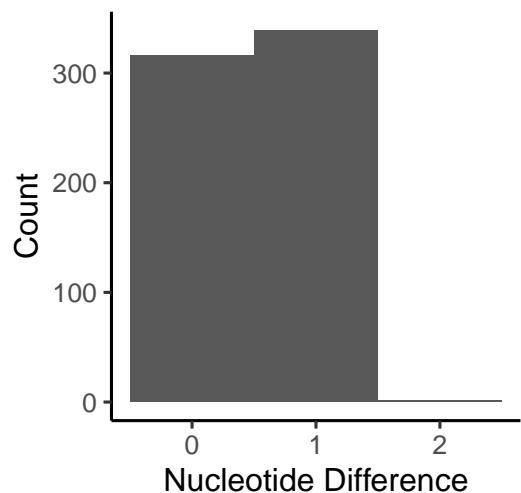
TRBV7-7*ap01_C315T

499 sequences assigned
495 (99.2%) exact matches, in which:
491 unique CDR3
13 unique J



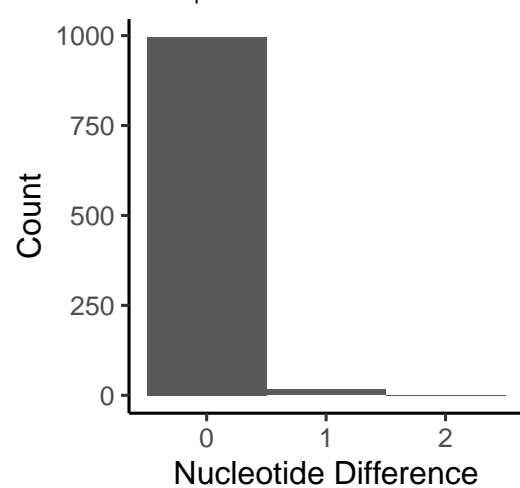
TRBV7-8*ap03

656 sequences assigned
316 (48.2%) exact matches, in which:
314 unique CDR3
13 unique J

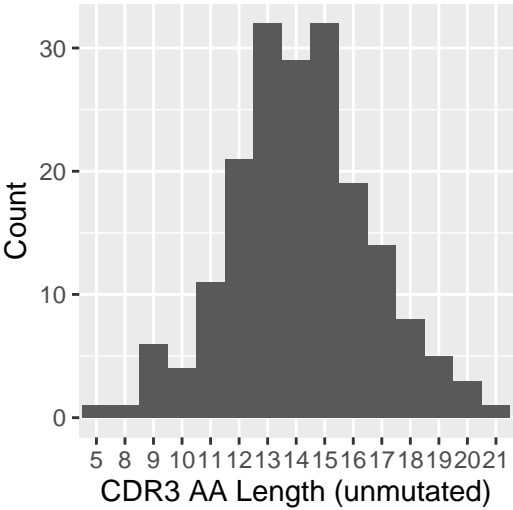


TRBV29-1*ap02

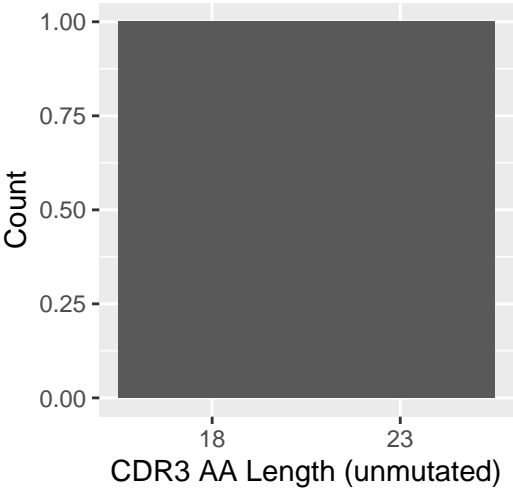
1013 sequences assigned
996 (98.3%) exact matches, in which:
983 unique CDR3
13 unique J



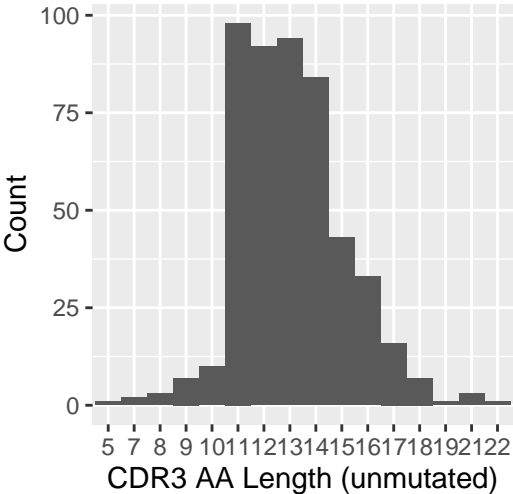
TRBV12-2*ap01_G301A



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T





[illegible]