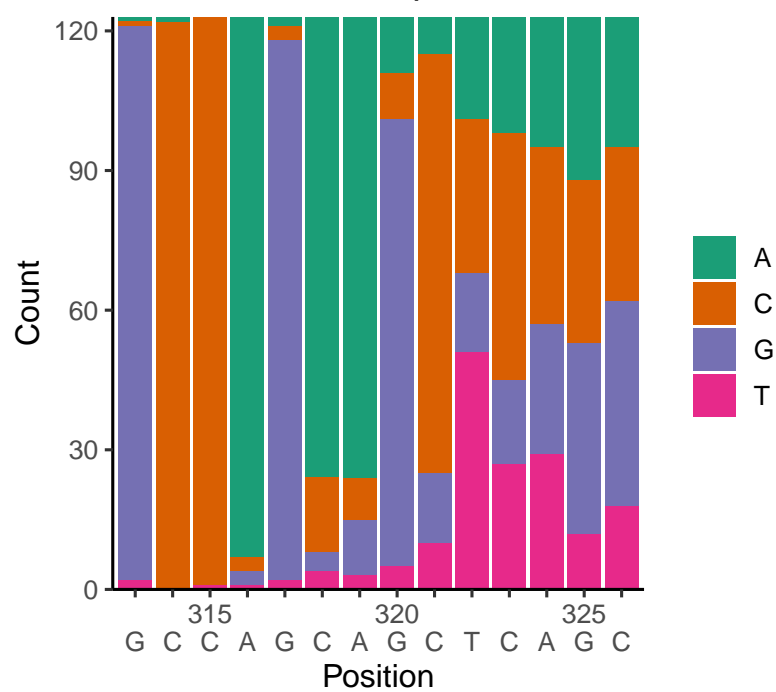
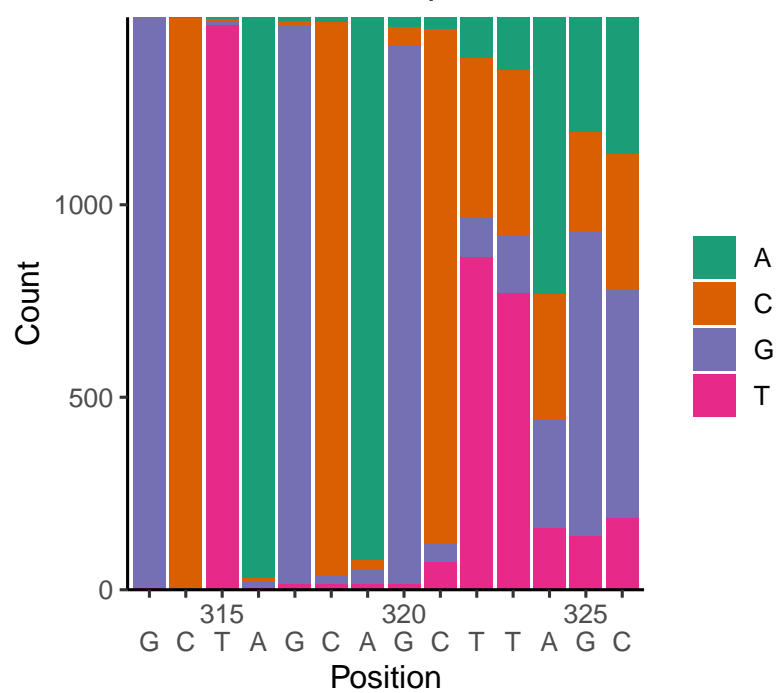


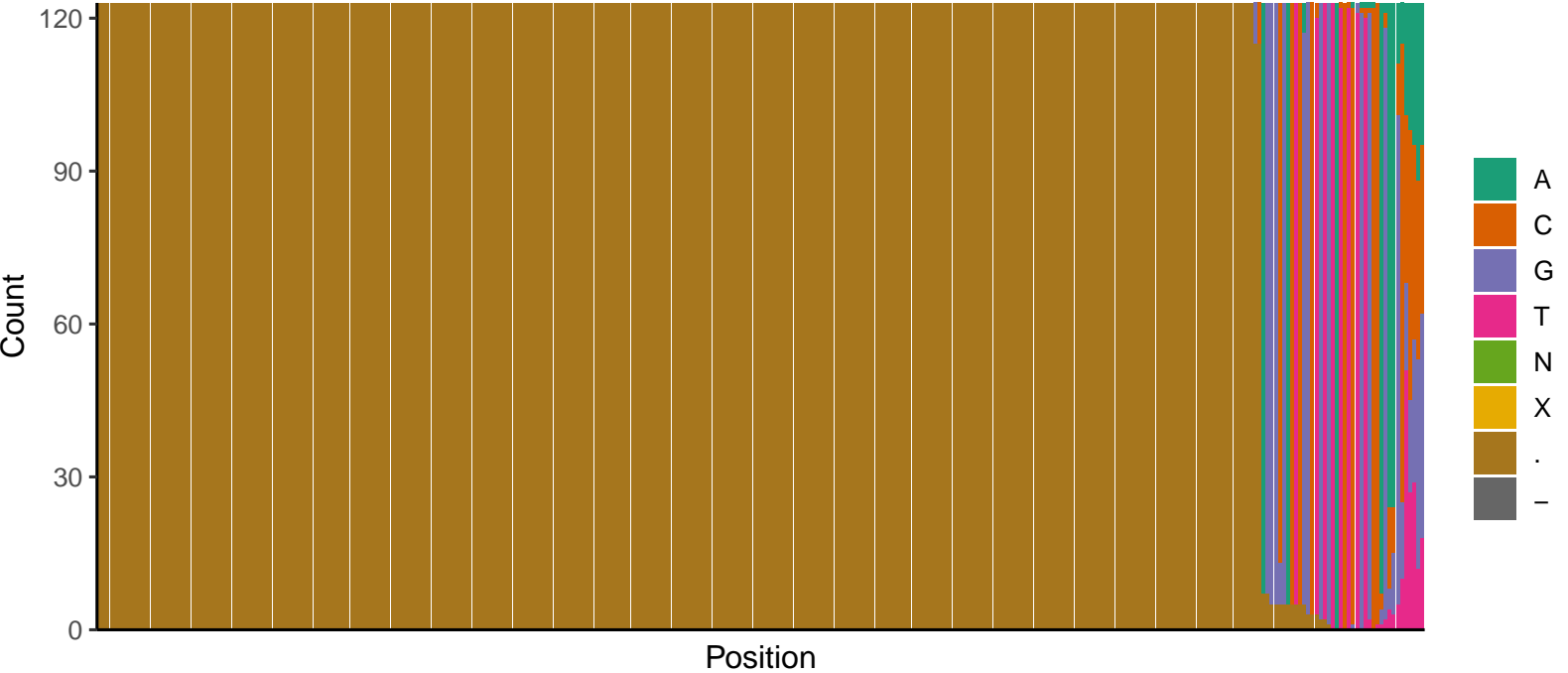
Gene TRBV7-1*ap01_T296C



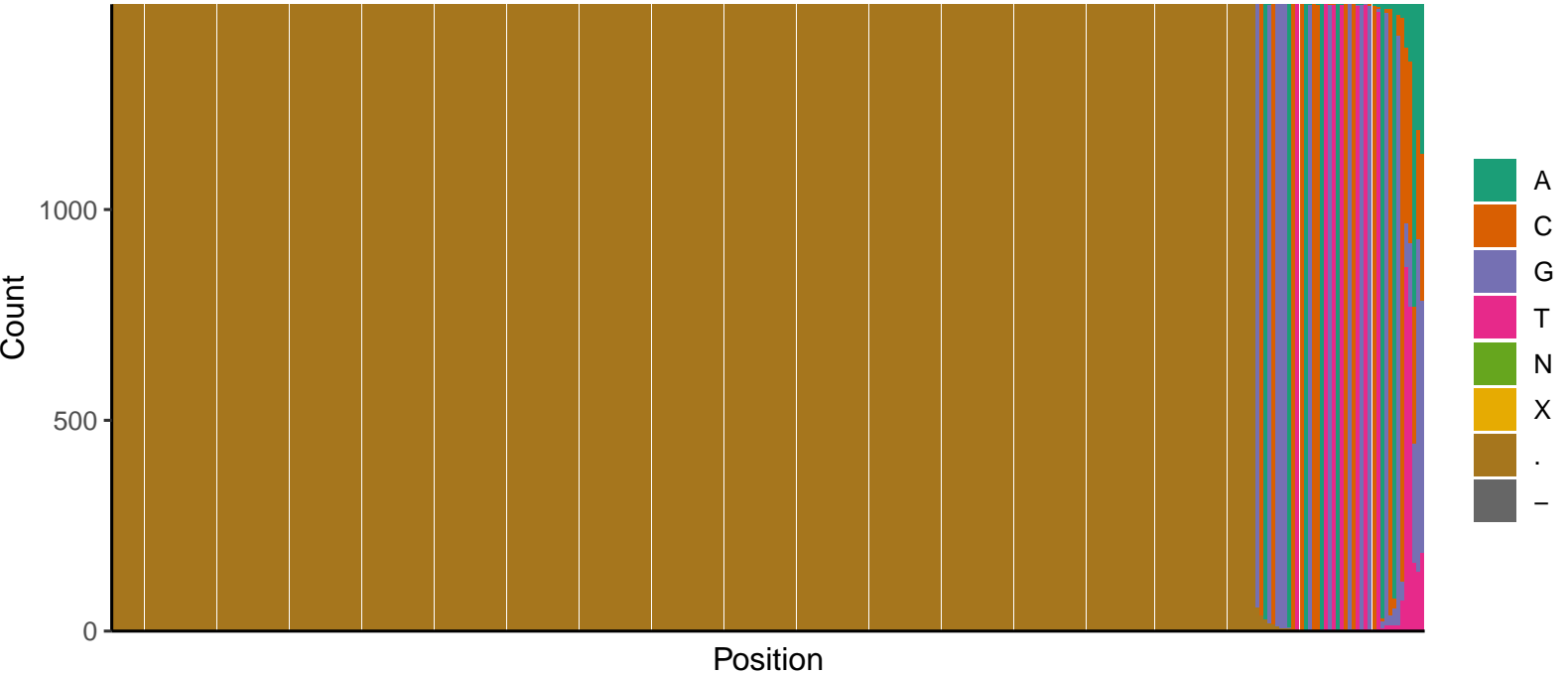
Gene TRBV7-7*ap01_C315T



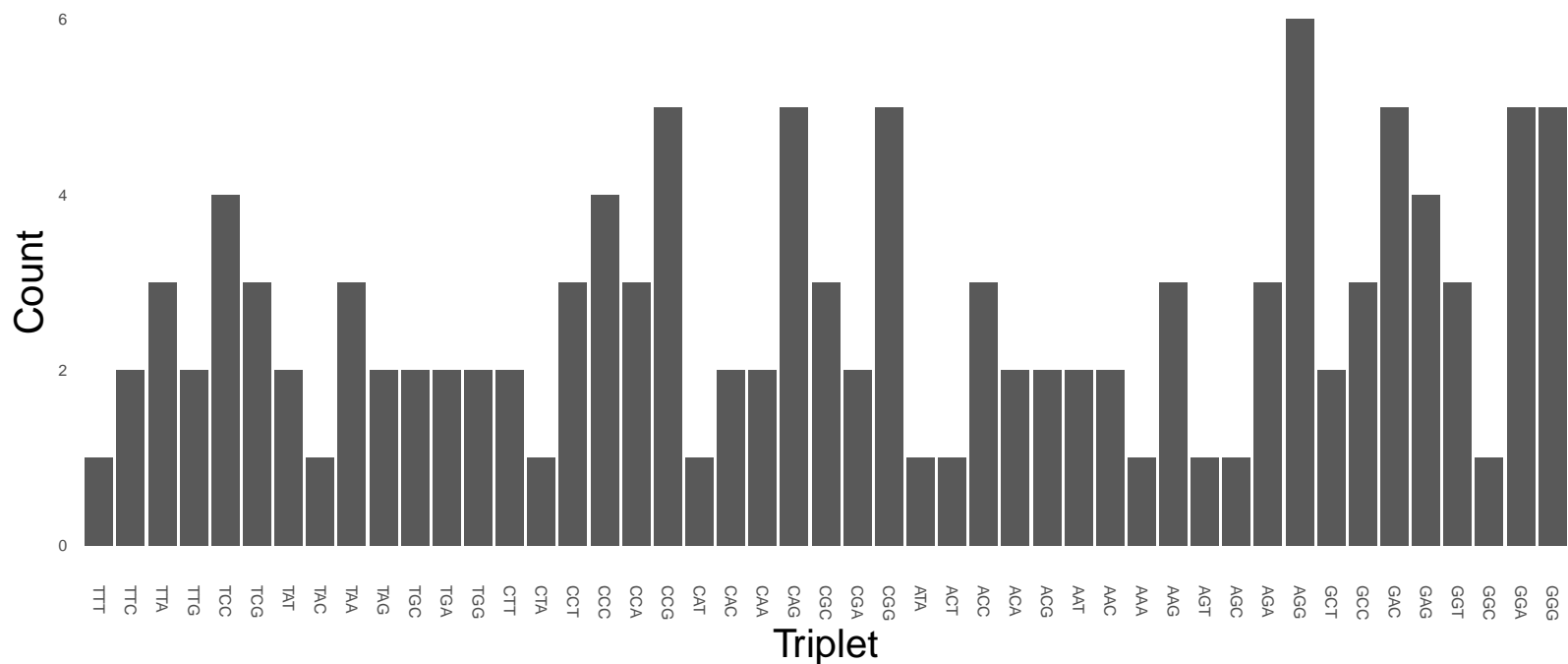
Gene TRBV7-1*ap01_T296C



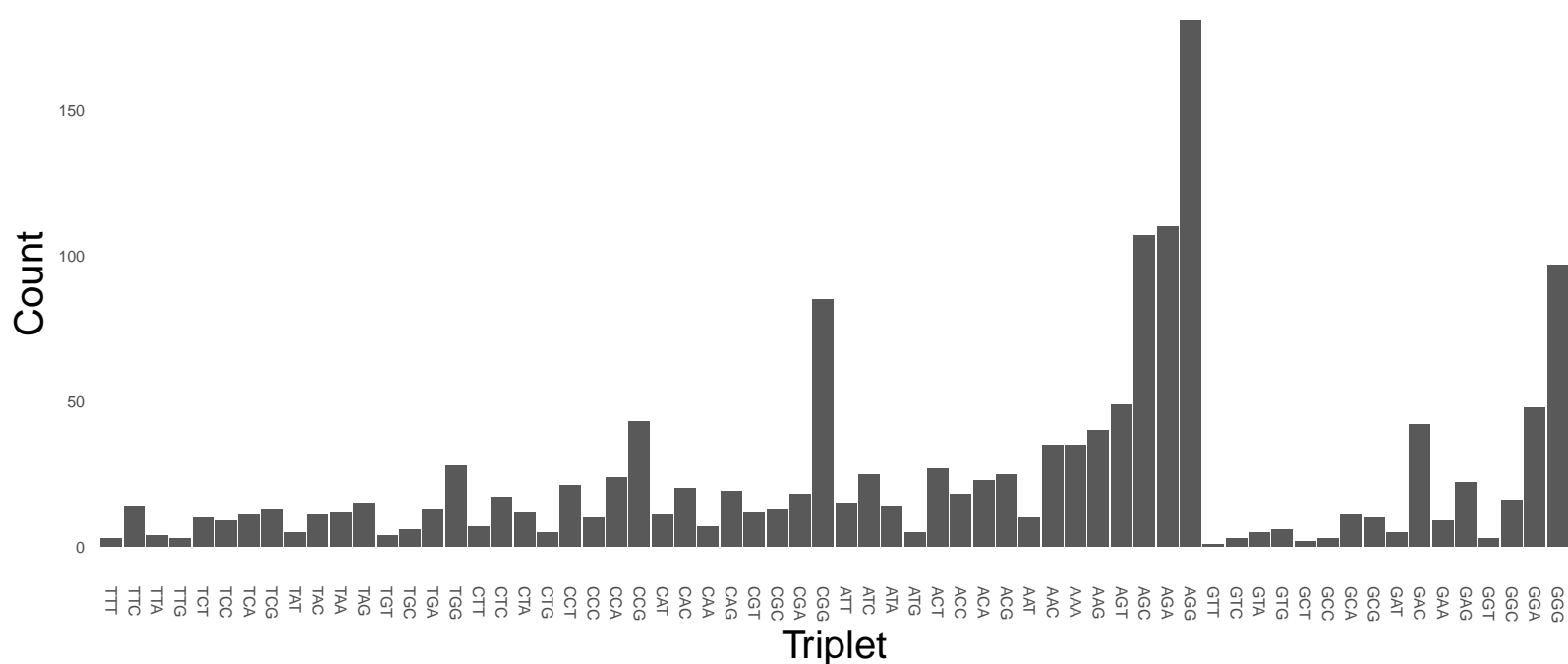
Gene TRBV7-7*ap01_C315T



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

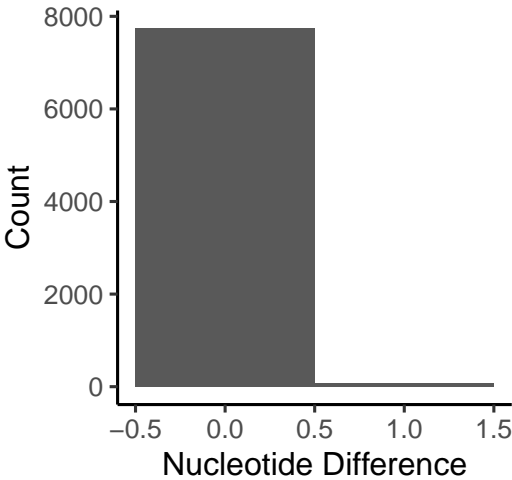


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



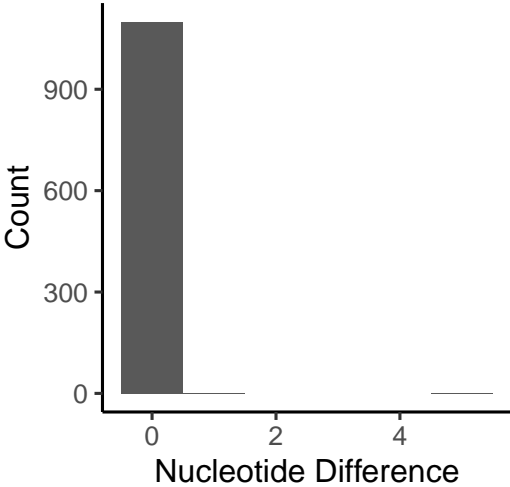
TRBV20-1*ap01

7808 sequences assigned
7739 (99.1%) exact matches, in which:
7636 unique CDR3
13 unique J



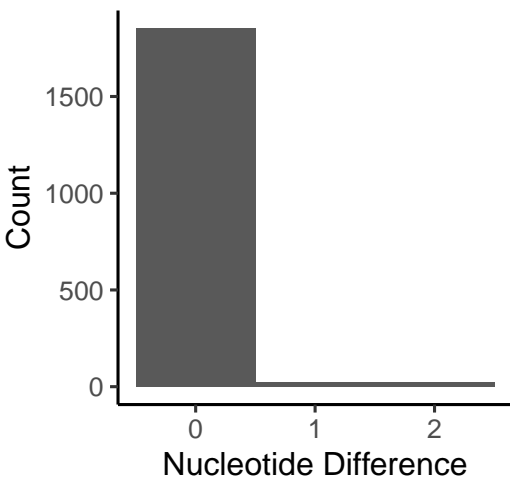
TRBV10-2*ap01

1103 sequences assigned
1100 (99.7%) exact matches, in which:
1086 unique CDR3
13 unique J



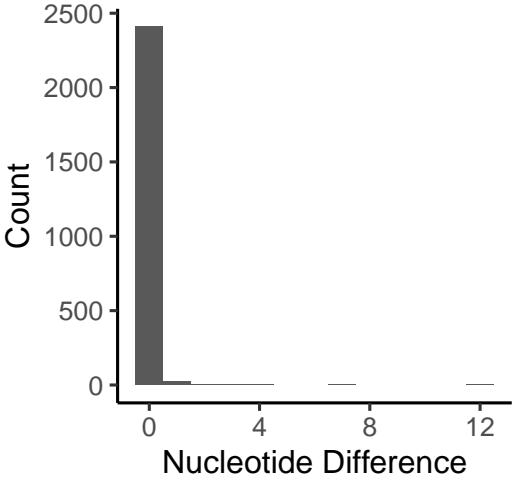
TRBV13*ap01

1896 sequences assigned
1852 (97.7%) exact matches, in which:
1804 unique CDR3
13 unique J



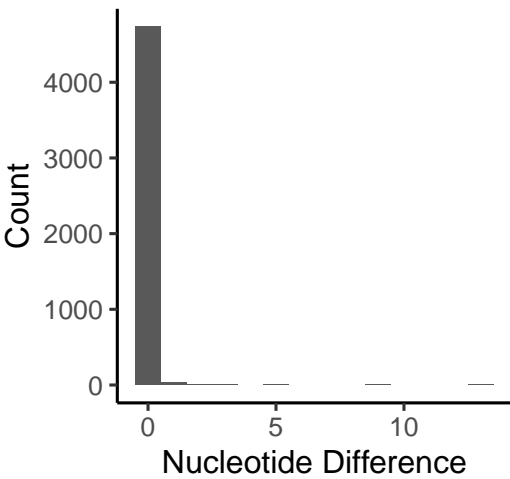
TRBV10-1*ap01

2440 sequences assigned
2409 (98.7%) exact matches, in which:
2366 unique CDR3
13 unique J



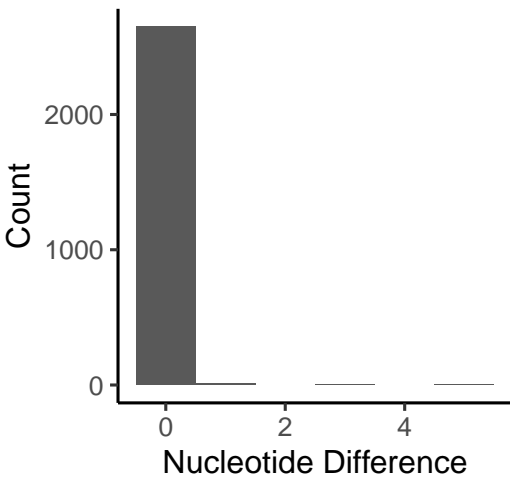
TRBV10-3*ap01

4782 sequences assigned
4734 (99%) exact matches, in which:
4670 unique CDR3
13 unique J



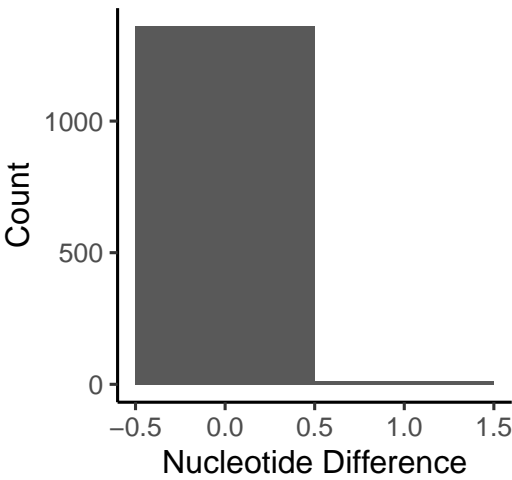
TRBV14*ap01

2663 sequences assigned
2649 (99.5%) exact matches, in which:
2620 unique CDR3
13 unique J



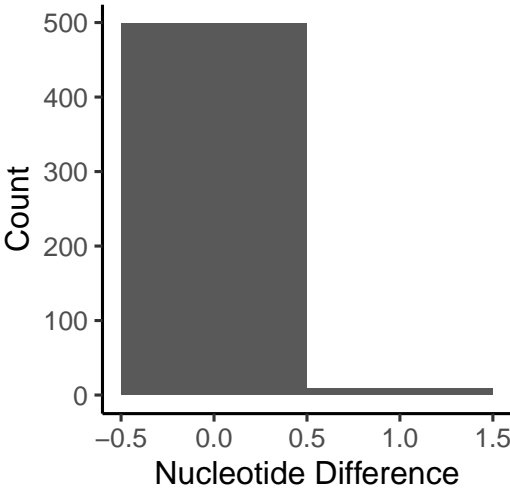
TRBV20-1*ap02

1373 sequences assigned
1361 (99.1%) exact matches, in which:
1343 unique CDR3
13 unique J



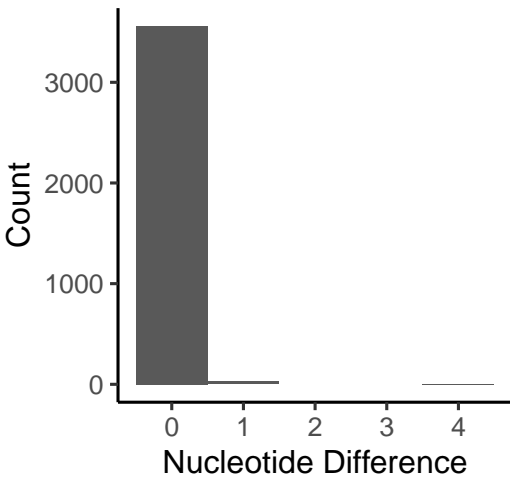
TRBV1*ap01

508 sequences assigned
499 (98.2%) exact matches, in which:
487 unique CDR3
13 unique J



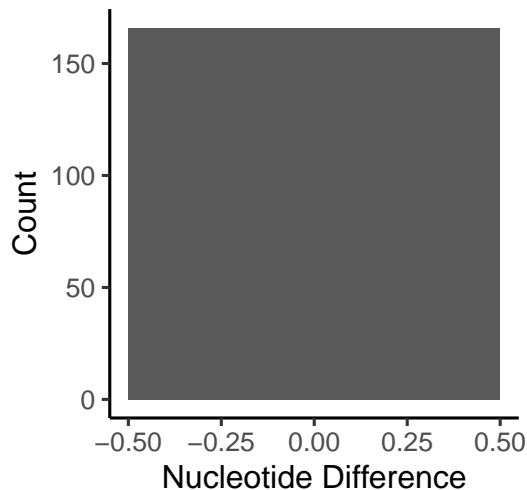
TRBV15*ap02

3589 sequences assigned
3559 (99.2%) exact matches, in which:
3488 unique CDR3
13 unique J



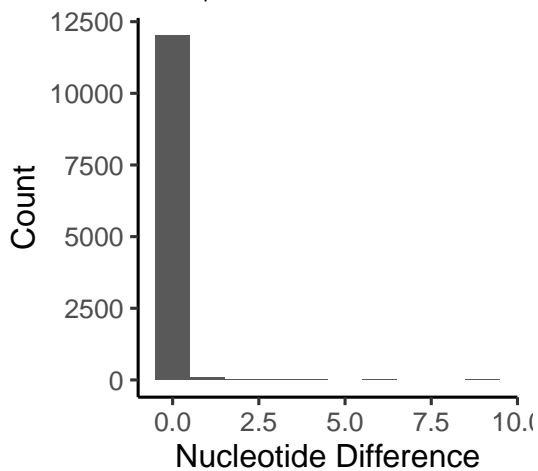
TRBV16*ap01

166 sequences assigned
166 (100%) exact matches, in which:
164 unique CDR3
13 unique J



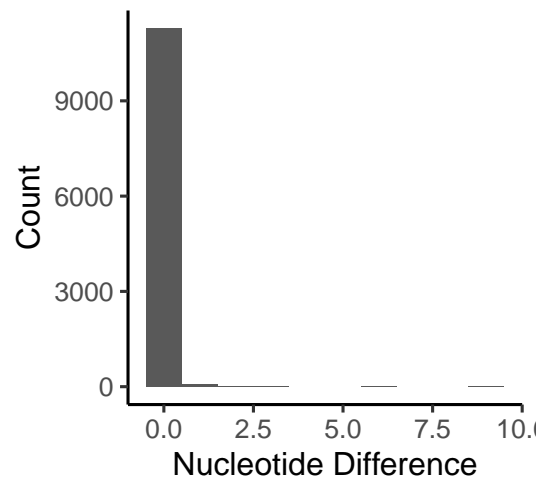
TRBV19*ap01

12127 sequences assigned
12029 (99.2%) exact matches, in which:
11952 unique CDR3
13 unique J



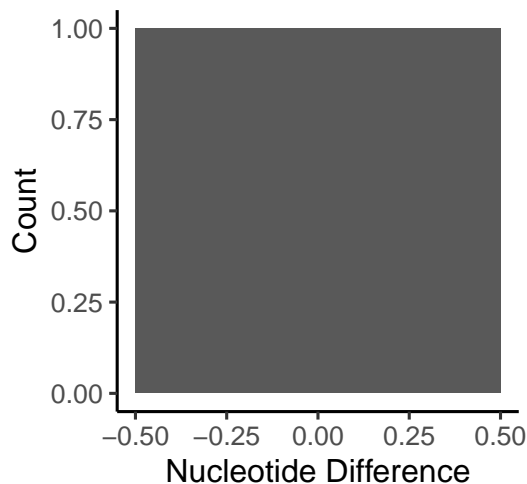
TRBV28*ap01

11382 sequences assigned
11281 (99.1%) exact matches, in which:
11129 unique CDR3
13 unique J



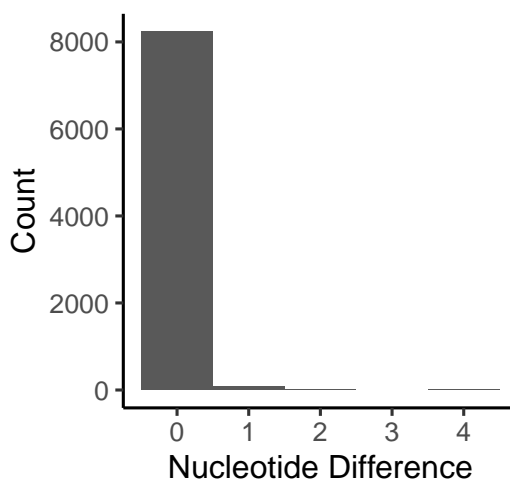
TRBV17*ap01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



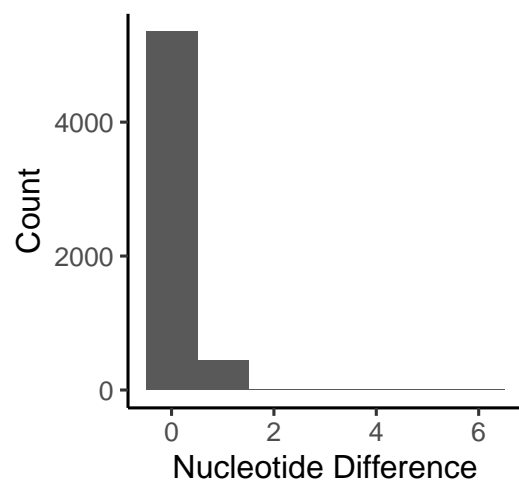
TRBV2*ap01

8324 sequences assigned
8234 (98.9%) exact matches, in which:
8049 unique CDR3
13 unique J



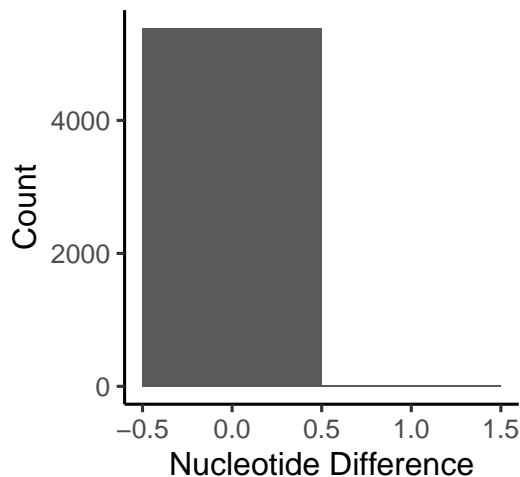
TRBV30*ap01

5806 sequences assigned
5350 (92.1%) exact matches, in which:
5248 unique CDR3
13 unique J



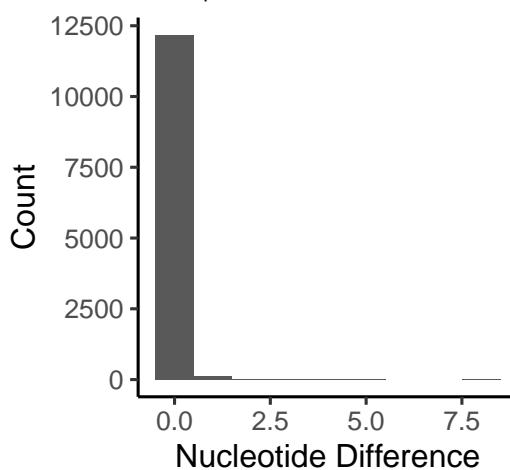
TRBV18*ap01

5410 sequences assigned
5389 (99.6%) exact matches, in which:
5358 unique CDR3
13 unique J



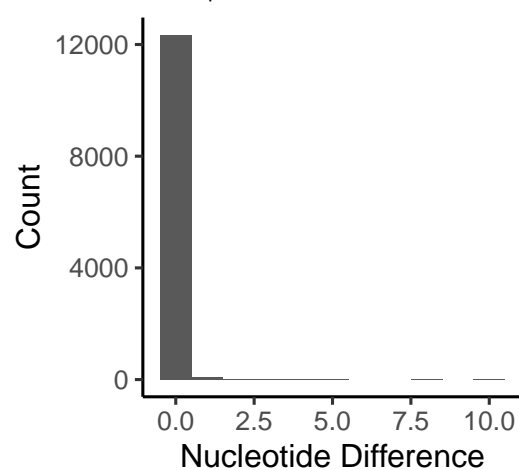
TRBV27*ap01

12315 sequences assigned
12181 (98.9%) exact matches, in which:
11901 unique CDR3
13 unique J



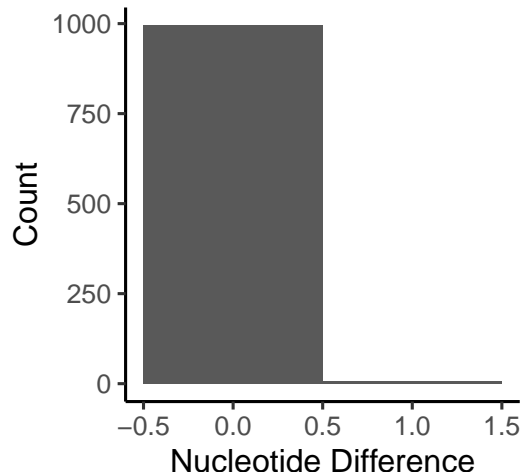
TRBV9*ap01

12462 sequences assigned
12348 (99.1%) exact matches, in which:
12171 unique CDR3
14 unique J



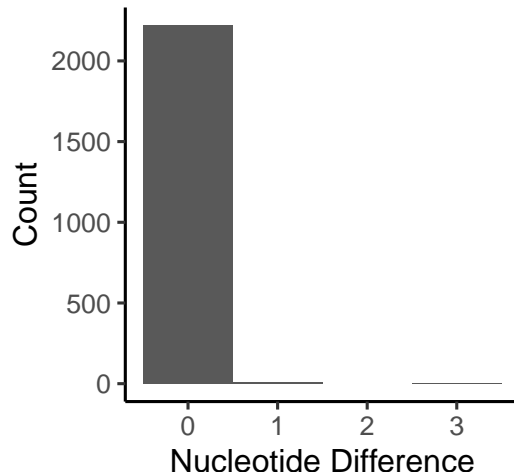
TRBV11-1*ap01

1001 sequences assigned
995 (99.4%) exact matches, in which:
989 unique CDR3
13 unique J



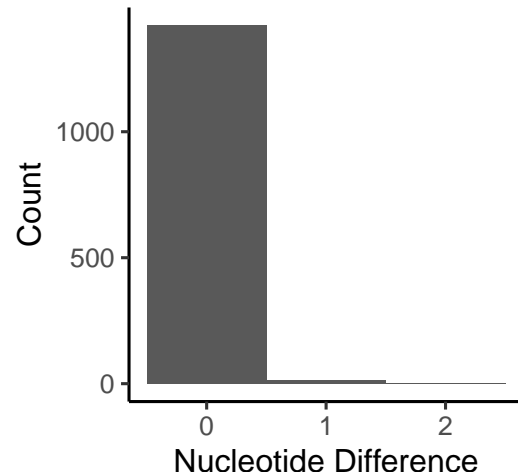
TRBV11-3*ap01

2231 sequences assigned
2220 (99.5%) exact matches, in which:
2204 unique CDR3
13 unique J



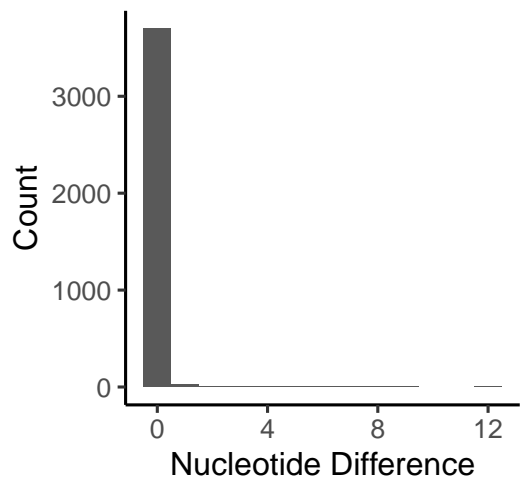
TRBV12-5*ap01

1436 sequences assigned
1422 (99%) exact matches, in which:
1399 unique CDR3
13 unique J



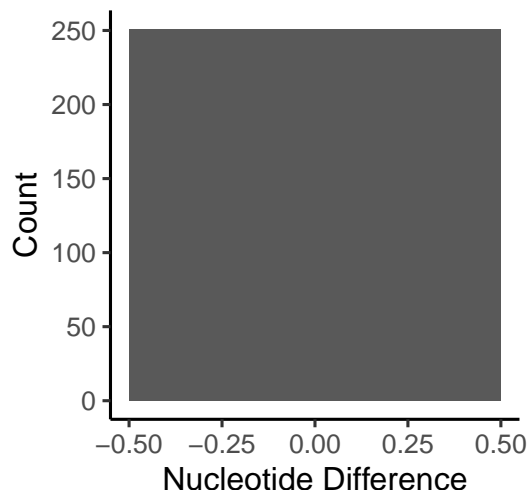
TRBV21-1*ap01

3742 sequences assigned
3697 (98.8%) exact matches, in which:
3672 unique CDR3
13 unique J



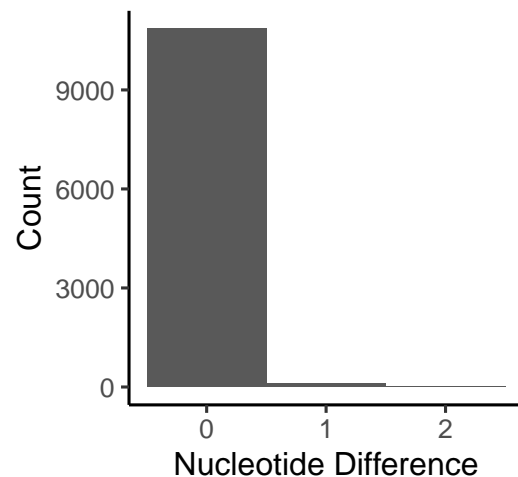
TRBV12-1*ap01

251 sequences assigned
251 (100%) exact matches, in which:
246 unique CDR3
13 unique J



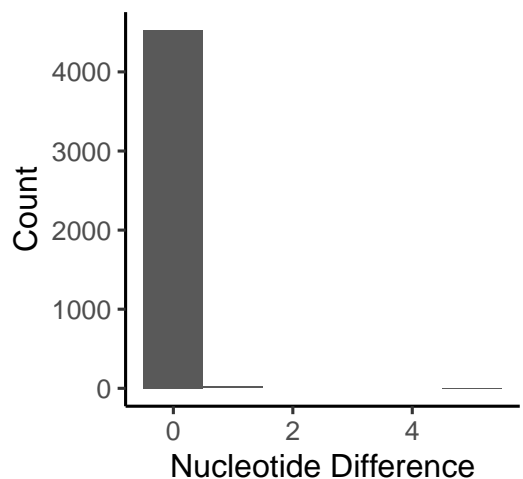
TRBV12-34*ap01

10954 sequences assigned
10854 (99.1%) exact matches, in which:
10691 unique CDR3
13 unique J



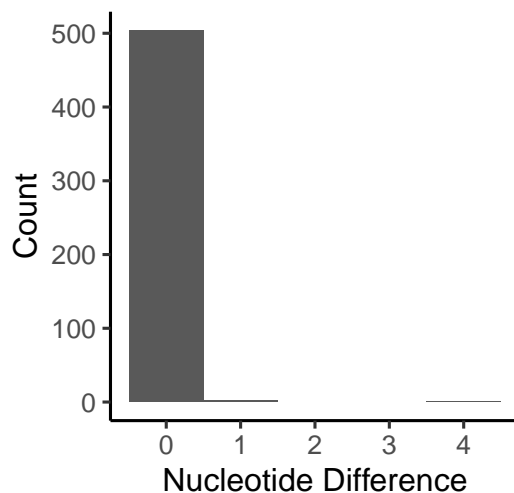
TRBV11-2*ap01

4553 sequences assigned
4529 (99.5%) exact matches, in which:
4497 unique CDR3
13 unique J



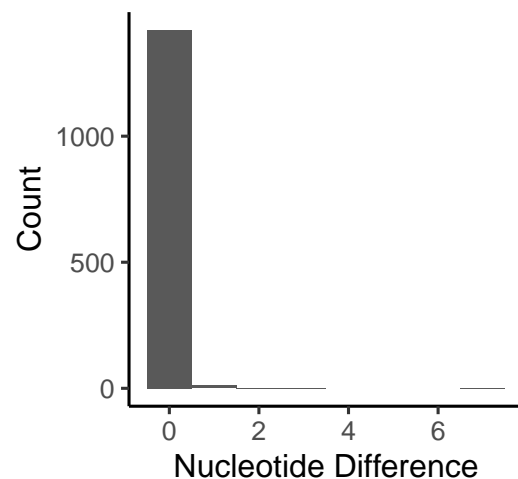
TRBV12-2*ap01

507 sequences assigned
504 (99.4%) exact matches, in which:
500 unique CDR3
13 unique J



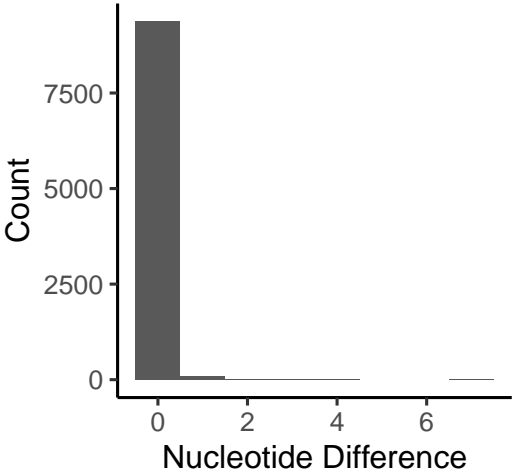
TRBV23-1*ap01

1437 sequences assigned
1421 (98.9%) exact matches, in which:
1409 unique CDR3
13 unique J



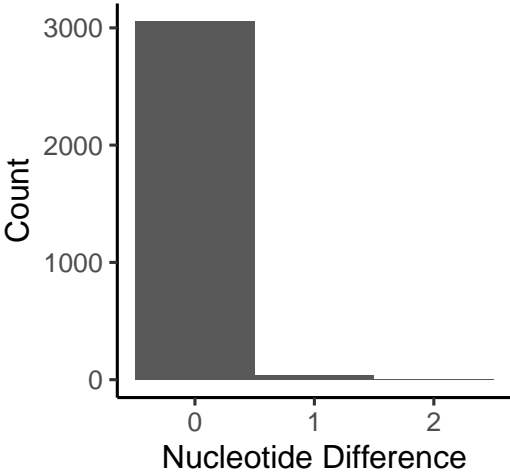
TRBV3-12*ap01

9469 sequences assigned
9373 (99%) exact matches, in which:
9211 unique CDR3
13 unique J



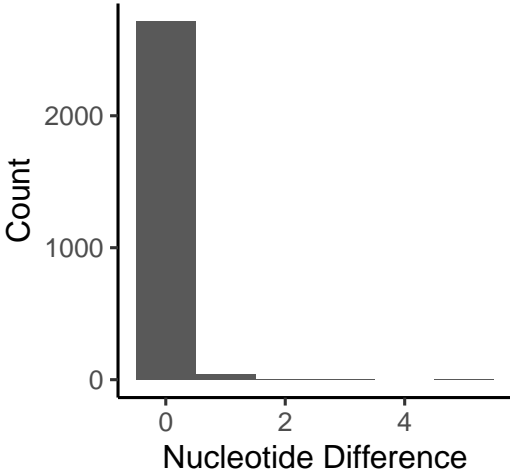
TRBV4-2*ap01

3092 sequences assigned
3055 (98.8%) exact matches, in which:
2976 unique CDR3
13 unique J



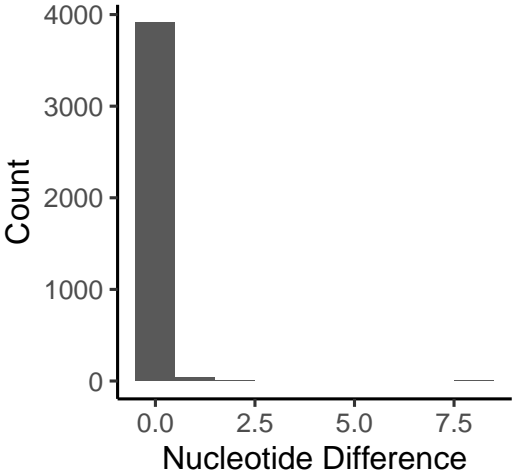
TRBV25-1*ap01

2762 sequences assigned
2715 (98.3%) exact matches, in which:
2655 unique CDR3
13 unique J



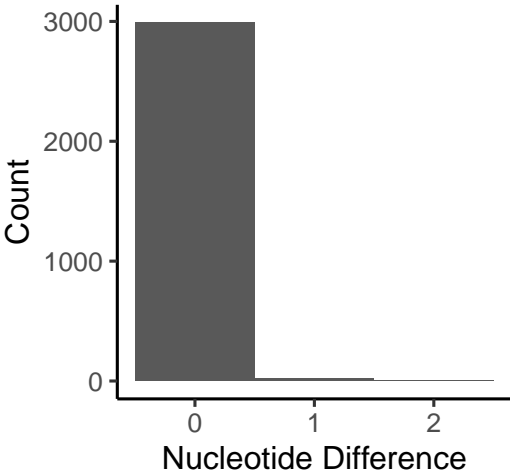
TRBV4-1*ap01

3952 sequences assigned
3911 (99%) exact matches, in which:
3828 unique CDR3
13 unique J



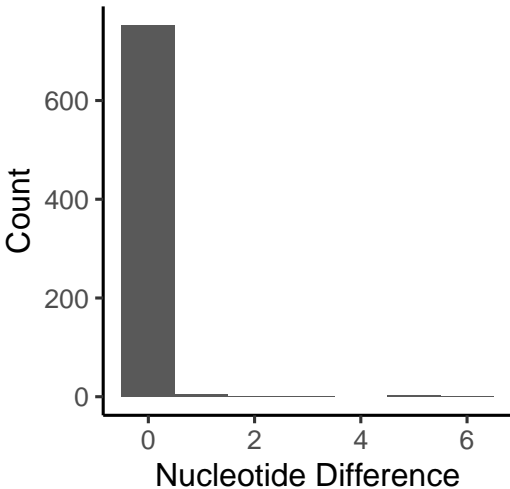
TRBV4-3*ap01

3011 sequences assigned
2989 (99.3%) exact matches, in which:
2904 unique CDR3
13 unique J



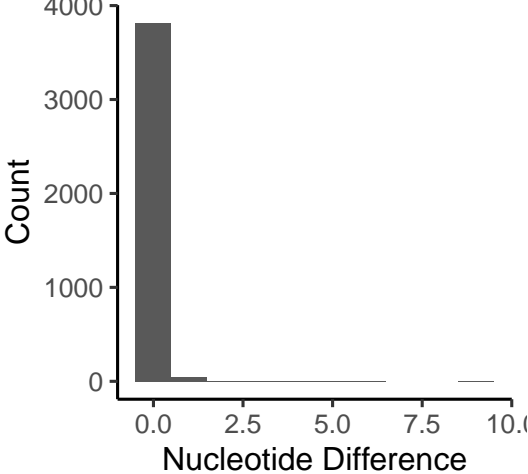
TRBV5-3*ap01

766 sequences assigned
753 (98.3%) exact matches, in which:
745 unique CDR3
13 unique J



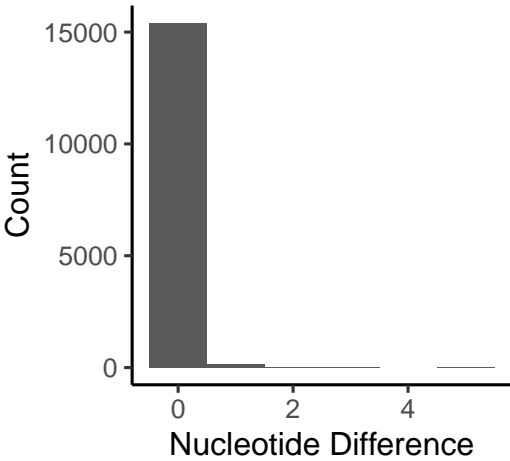
TRBV24-1*ap01

3868 sequences assigned
3814 (98.6%) exact matches, in which:
3743 unique CDR3
13 unique J



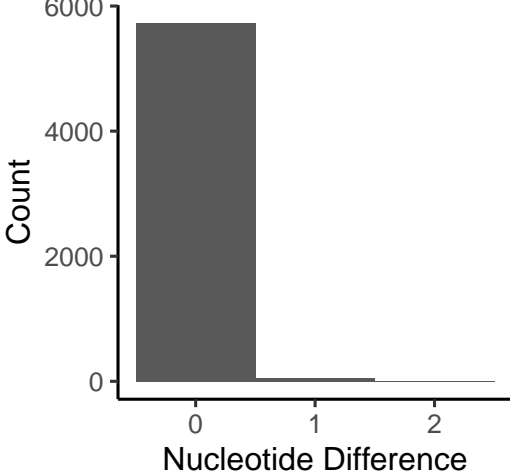
TRBV5-1*ap01

15557 sequences assigned
15415 (99.1%) exact matches, in which:
15025 unique CDR3
13 unique J



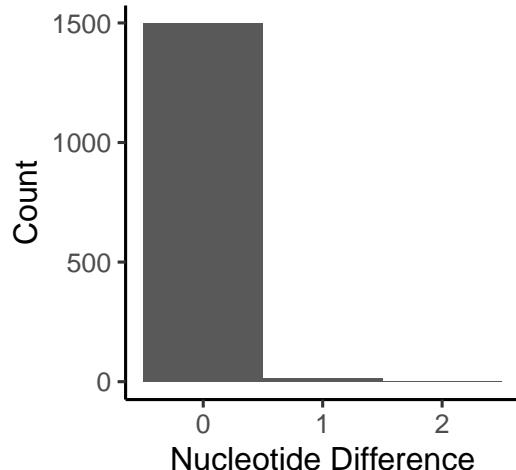
TRBV5-4*ap01

5787 sequences assigned
5728 (99%) exact matches, in which:
5624 unique CDR3
13 unique J



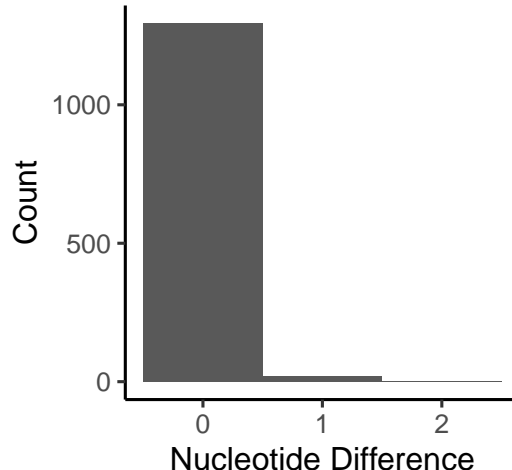
TRBV5-5*ap01

1514 sequences assigned
1498 (98.9%) exact matches, in which:
1481 unique CDR3
13 unique J



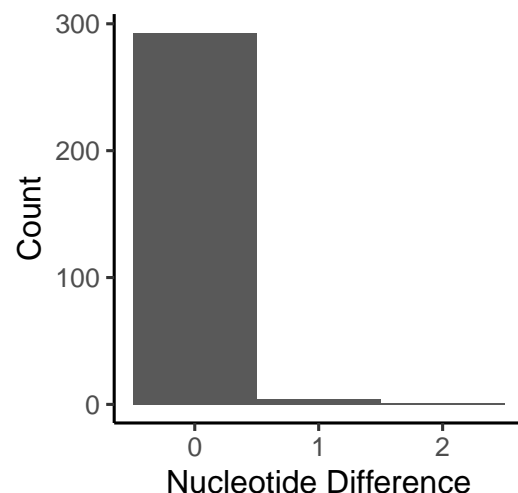
TRBV5-8*ap01

1315 sequences assigned
1294 (98.4%) exact matches, in which:
1280 unique CDR3
13 unique J



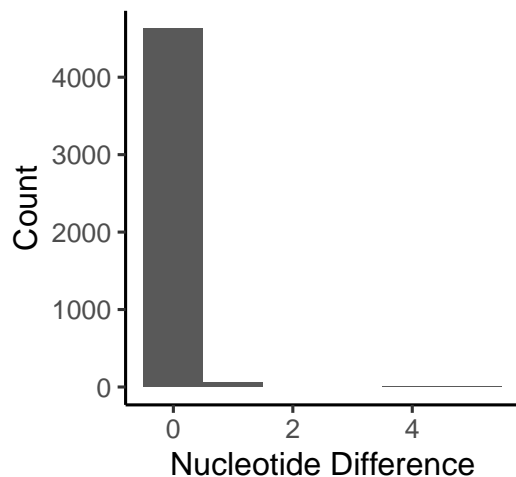
TRBV6-7*ap01

298 sequences assigned
293 (98.3%) exact matches, in which:
289 unique CDR3
13 unique J



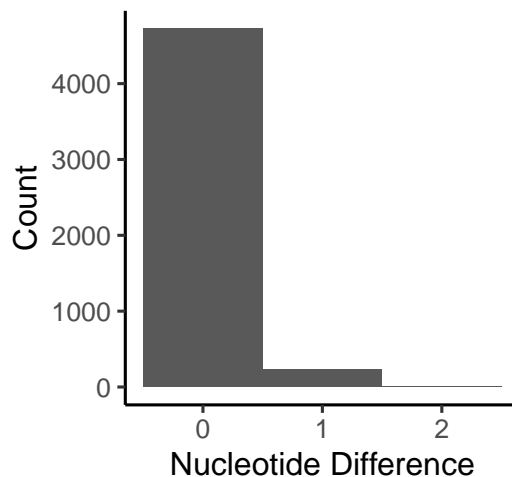
TRBV5-6*ap01

4682 sequences assigned
4626 (98.8%) exact matches, in which:
4492 unique CDR3
13 unique J



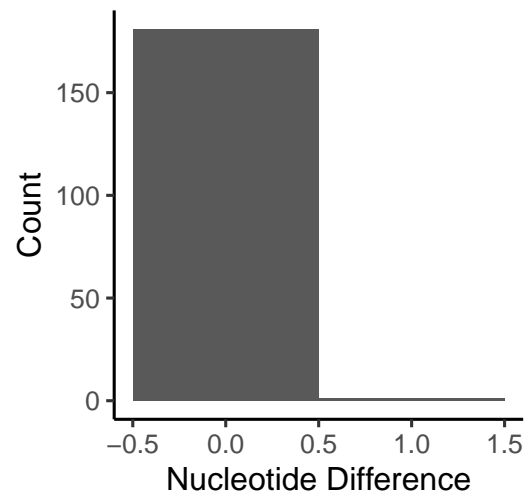
TRBV6-1*ap01

4952 sequences assigned
4724 (95.4%) exact matches, in which:
4616 unique CDR3
13 unique J



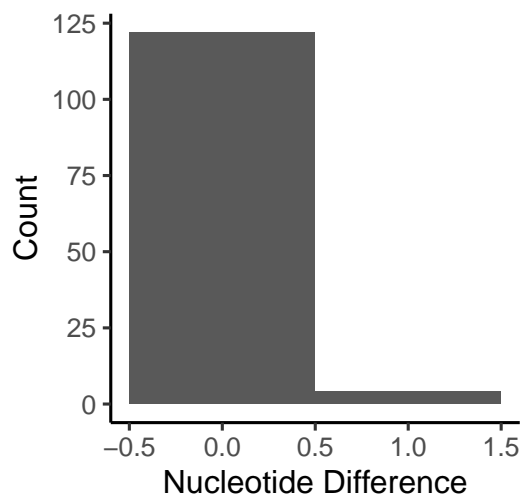
TRBV6-8*ap01

182 sequences assigned
181 (99.5%) exact matches, in which:
179 unique CDR3
13 unique J



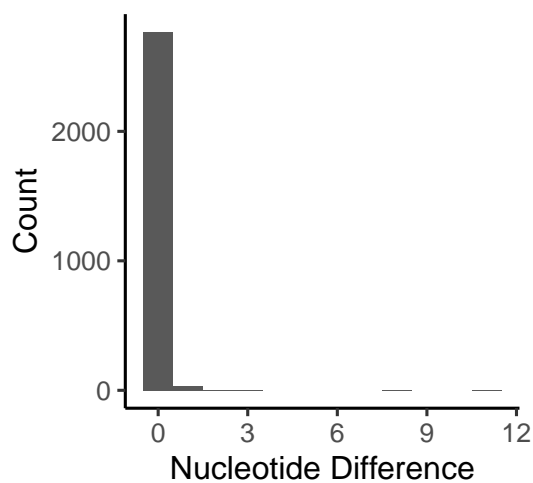
TRBV5-7*ap01

126 sequences assigned
122 (96.8%) exact matches, in which:
120 unique CDR3
13 unique J



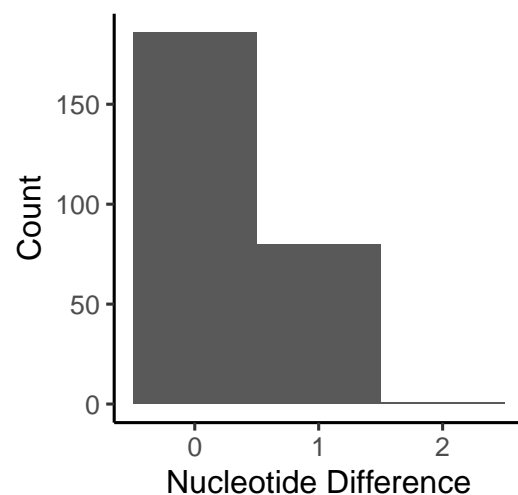
TRBV6-4*ap01

2806 sequences assigned
2767 (98.6%) exact matches, in which:
2743 unique CDR3
13 unique J



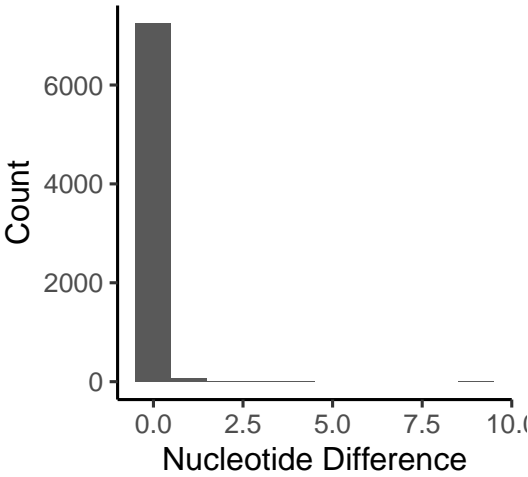
TRBV6-9*ap01

267 sequences assigned
186 (69.7%) exact matches, in which:
181 unique CDR3
12 unique J



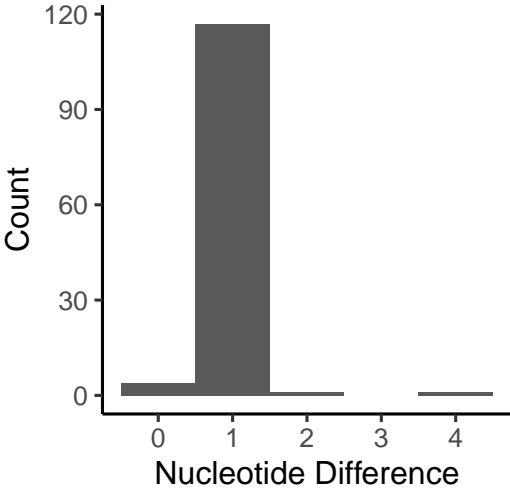
TRBV6-23*ap01

7322 sequences assigned
7246 (99%) exact matches, in which:
6986 unique CDR3
13 unique J



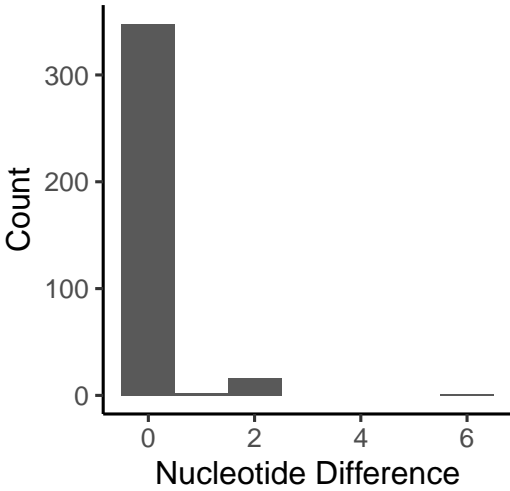
TRBV7-1*ap01_T296C

123 sequences assigned
4 (3.3%) exact matches, in which:
4 unique CDR3
3 unique J



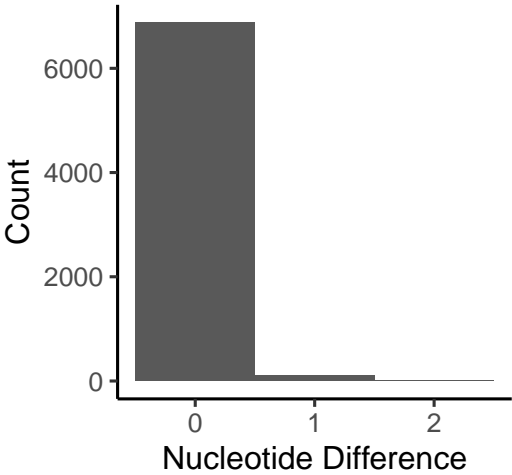
TRBV7-4*ap01

367 sequences assigned
348 (94.8%) exact matches, in which:
343 unique CDR3
13 unique J



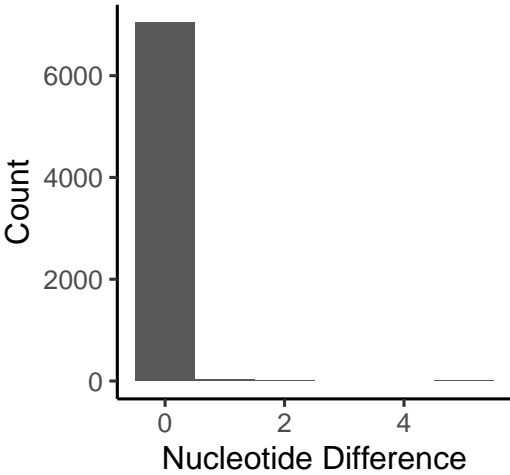
TRBV6-56*ap01

6974 sequences assigned
6875 (98.6%) exact matches, in which:
6679 unique CDR3
13 unique J



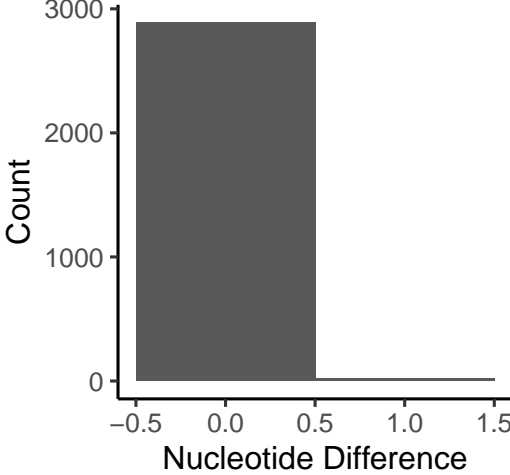
TRBV7-2*ap01

7071 sequences assigned
7040 (99.6%) exact matches, in which:
6948 unique CDR3
13 unique J



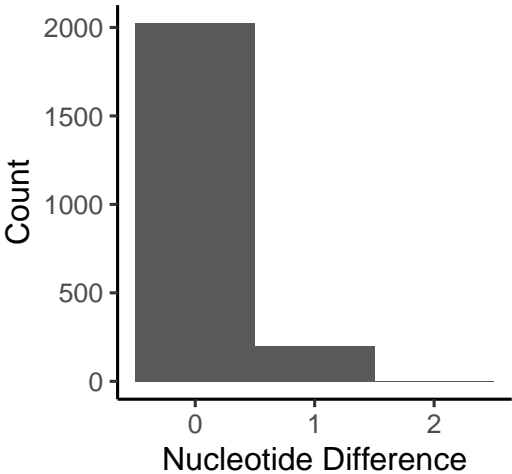
TRBV7-6*ap01

2911 sequences assigned
2888 (99.2%) exact matches, in which:
2850 unique CDR3
13 unique J



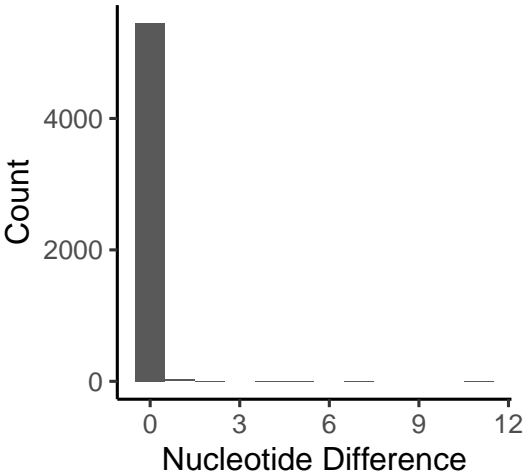
TRBV6-56*ap02

2228 sequences assigned
2025 (90.9%) exact matches, in which:
1974 unique CDR3
13 unique J



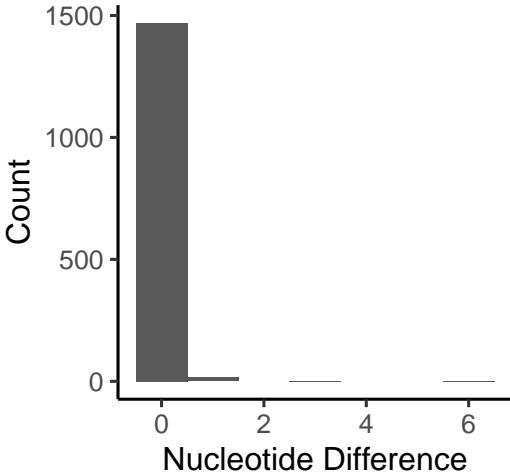
TRBV7-3*ap01

5485 sequences assigned
5452 (99.4%) exact matches, in which:
5409 unique CDR3
13 unique J



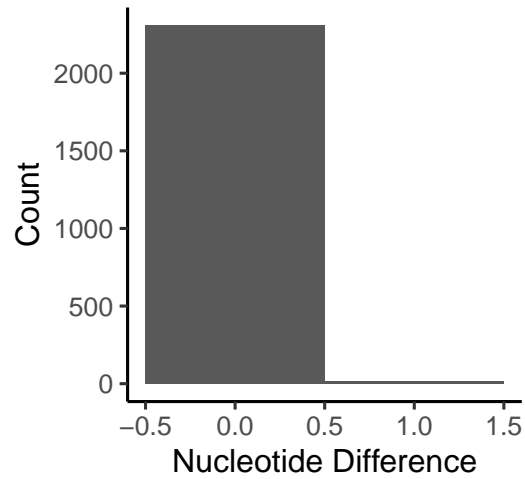
TRBV7-7*ap01_C315T

1487 sequences assigned
1469 (98.8%) exact matches, in which:
1450 unique CDR3
13 unique J



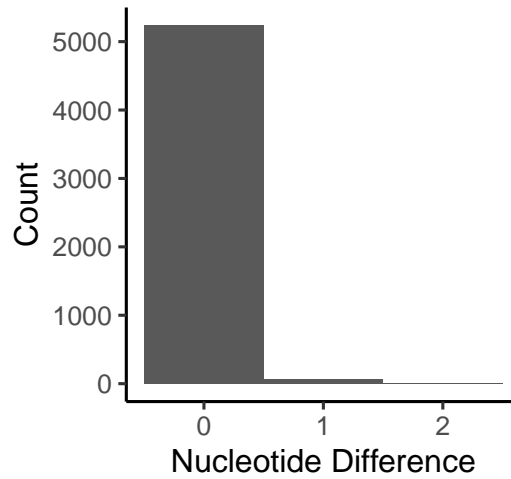
TRBV7-8*ap01

2327 sequences assigned
2308 (99.2%) exact matches, in which:
2275 unique CDR3
13 unique J



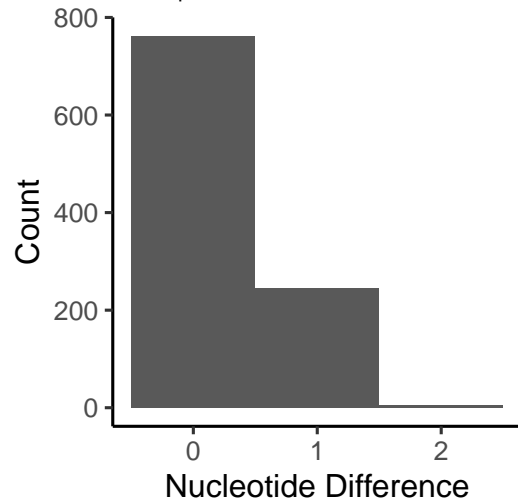
TRBV29-1*ap01

5311 sequences assigned
5237 (98.6%) exact matches, in which:
5072 unique CDR3
13 unique J



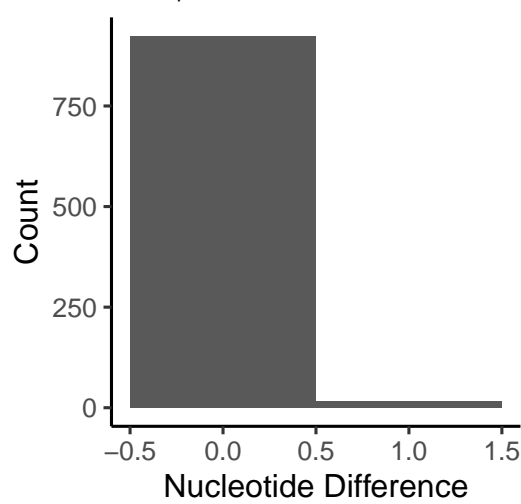
TRBV7-8*ap03

1012 sequences assigned
762 (75.3%) exact matches, in which:
747 unique CDR3
13 unique J



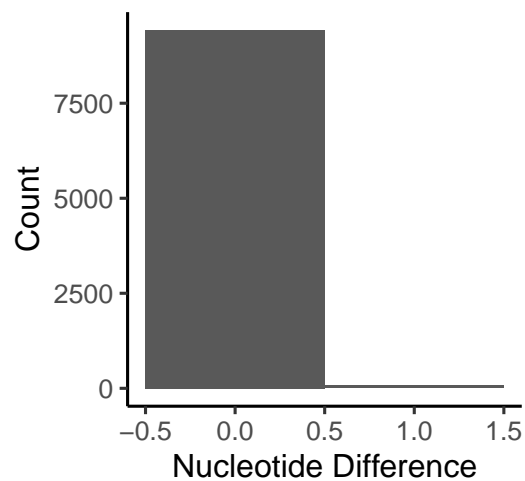
TRBV29-1*ap02

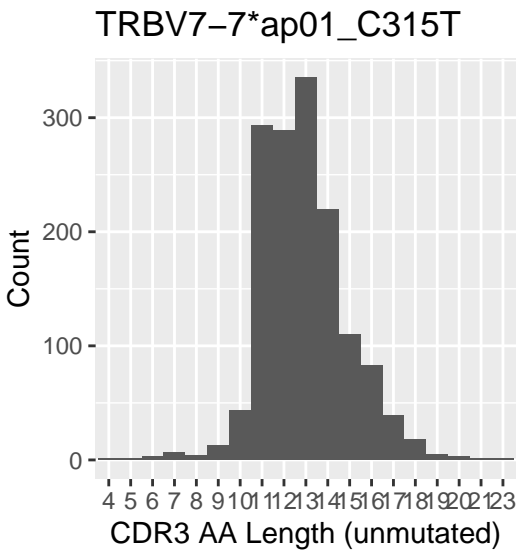
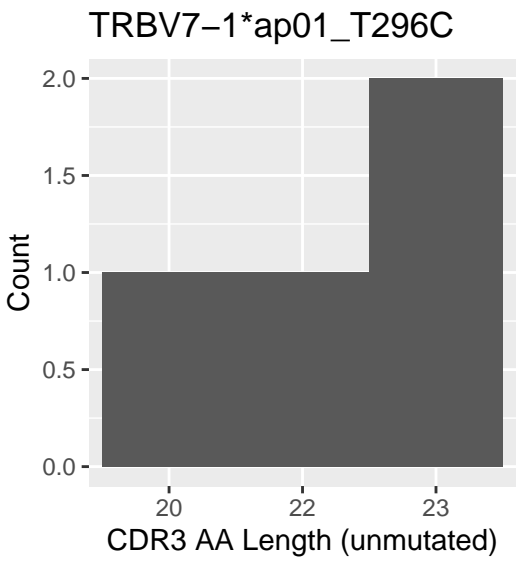
939 sequences assigned
924 (98.4%) exact matches, in which:
896 unique CDR3
13 unique J



TRBV7-9*ap01

9496 sequences assigned
9425 (99.3%) exact matches, in which:
9309 unique CDR3
13 unique J







[illegible]