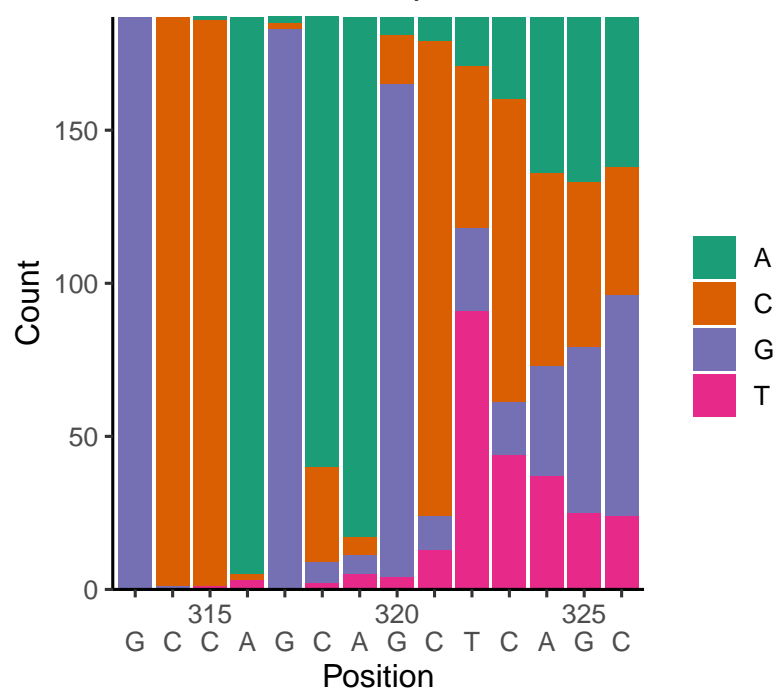
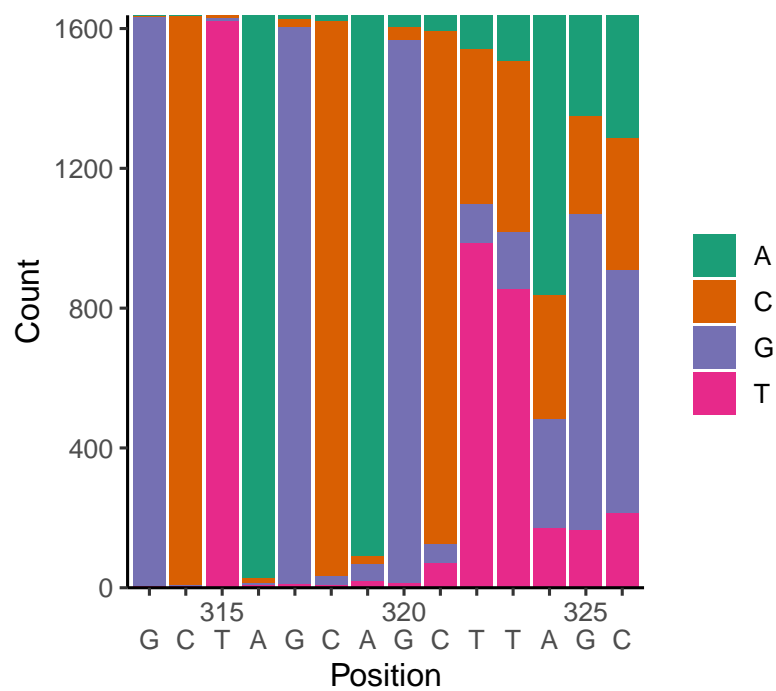


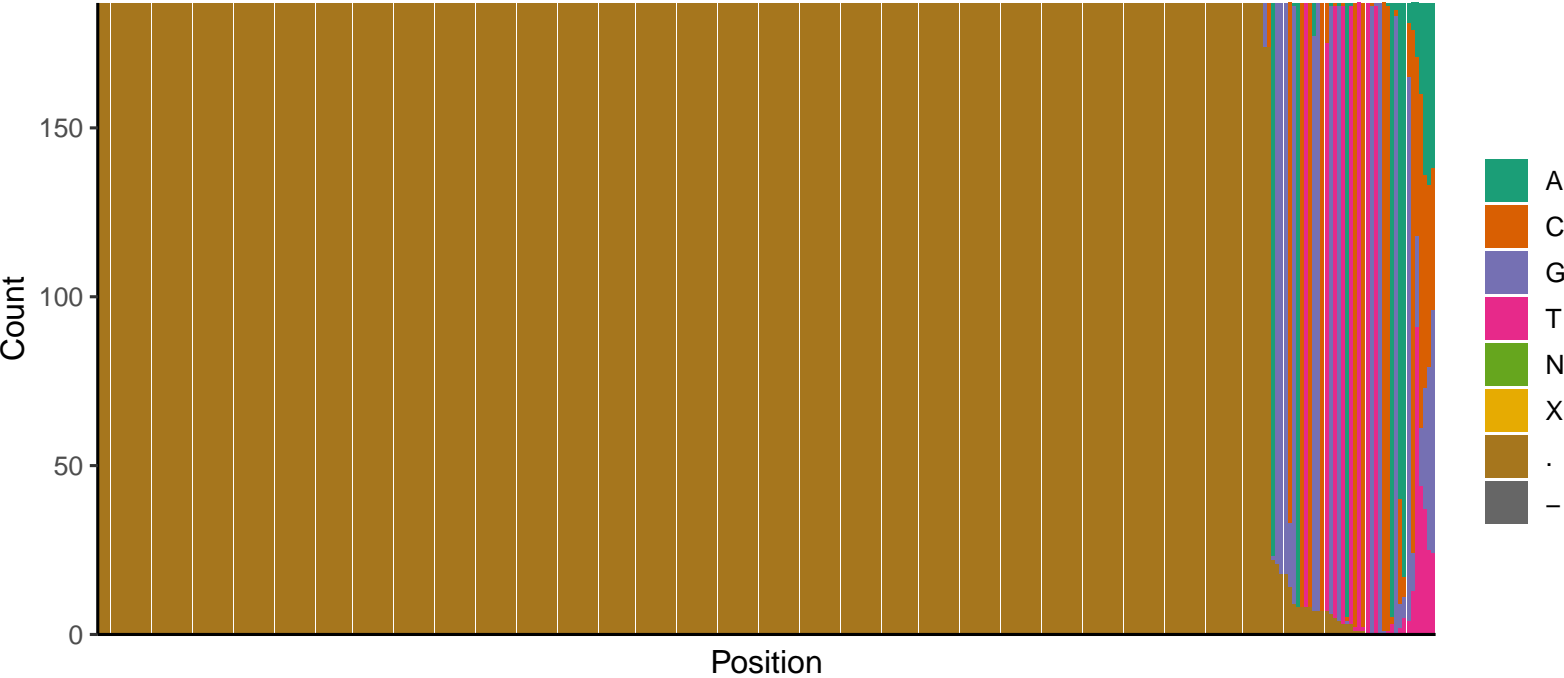
Gene TRBV7-1*ap01_T296C



Gene TRBV7-7*ap01_C315T



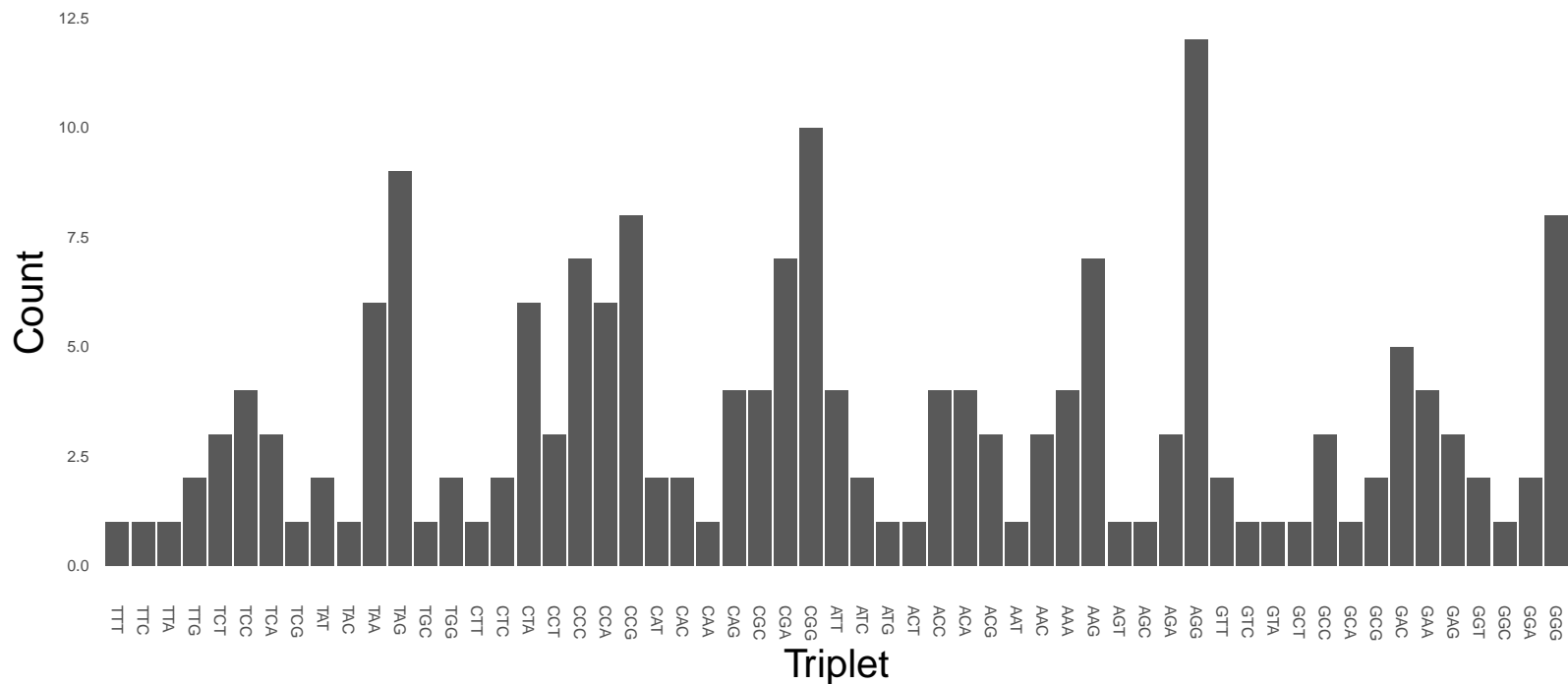
Gene TRBV7-1*ap01_T296C



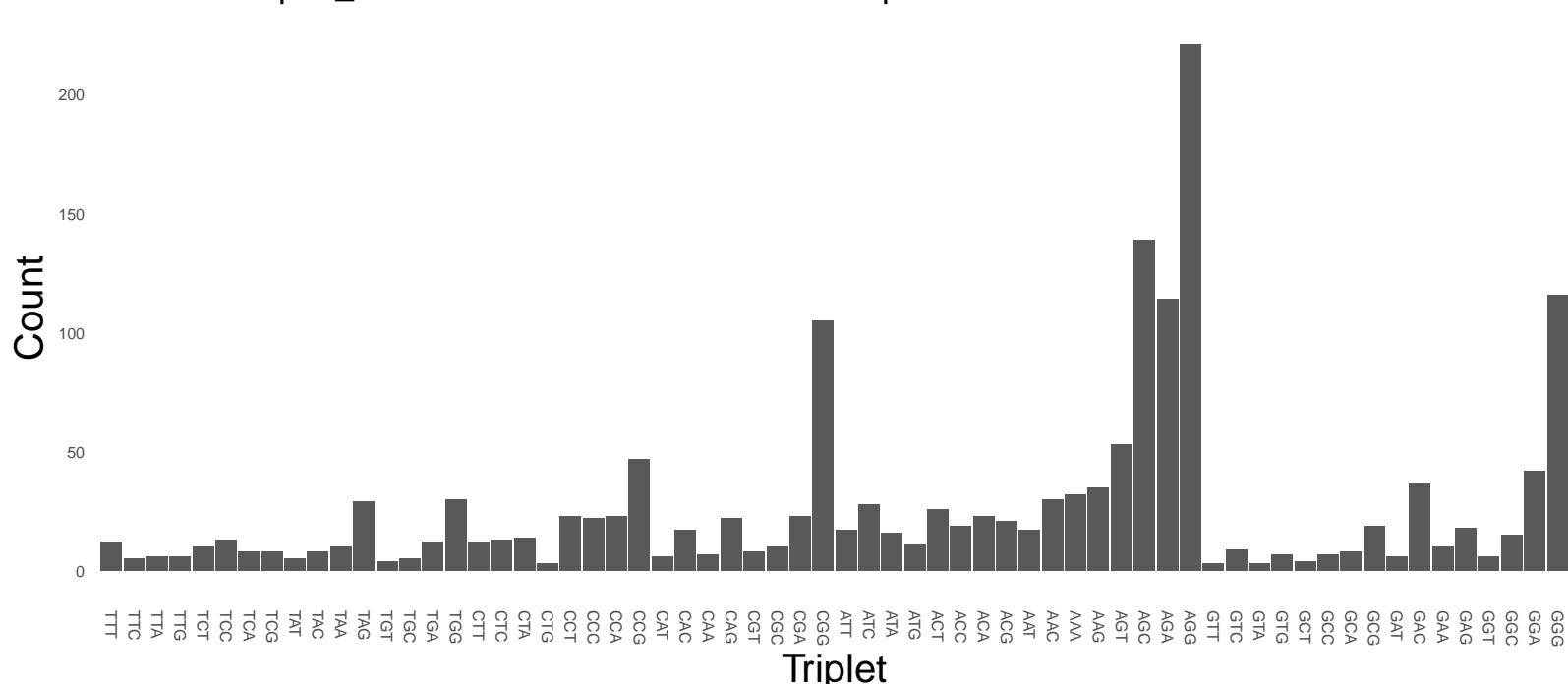
Gene TRBV7-7*ap01_C315T



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

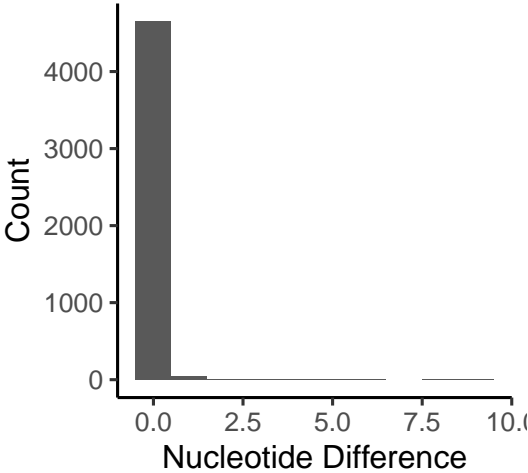


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



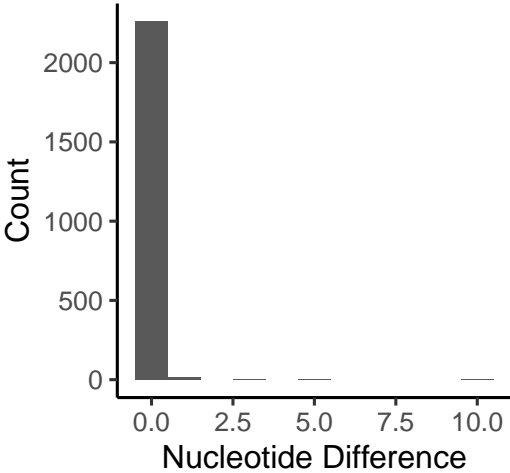
TRBV10-1*ap01

4705 sequences assigned
4651 (98.9%) exact matches, in which:
4522 unique CDR3
13 unique J



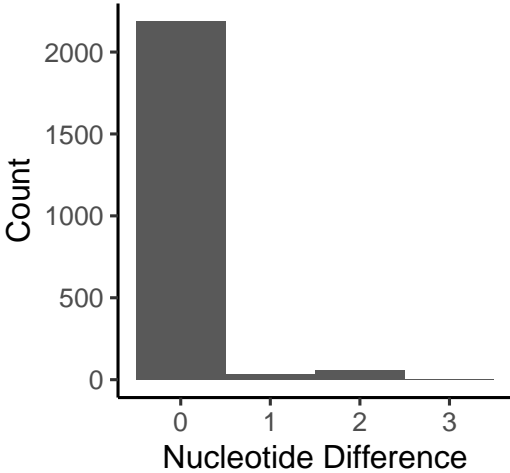
TRBV10-2*ap01

2276 sequences assigned
2260 (99.3%) exact matches, in which:
2204 unique CDR3
13 unique J



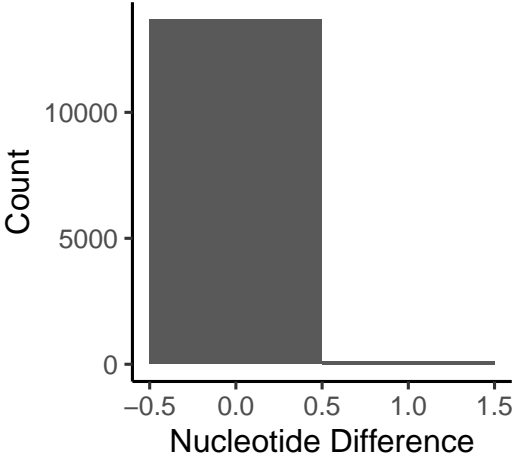
TRBV13*ap01

2286 sequences assigned
2187 (95.7%) exact matches, in which:
2115 unique CDR3
13 unique J



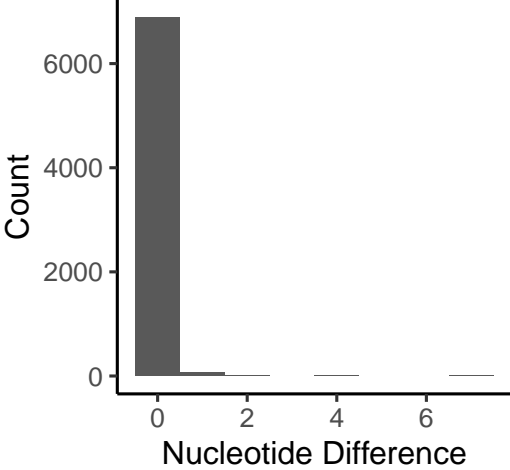
TRBV20-1*ap01

13825 sequences assigned
13687 (99%) exact matches, in which:
13477 unique CDR3
13 unique J



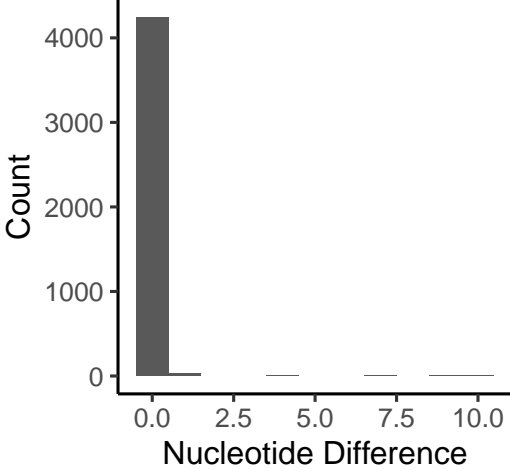
TRBV10-3*ap01

6955 sequences assigned
6881 (98.9%) exact matches, in which:
6716 unique CDR3
13 unique J



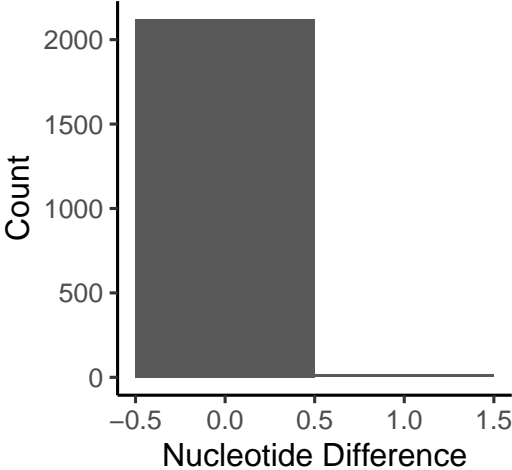
TRBV14*ap01

4270 sequences assigned
4238 (99.3%) exact matches, in which:
4165 unique CDR3
13 unique J



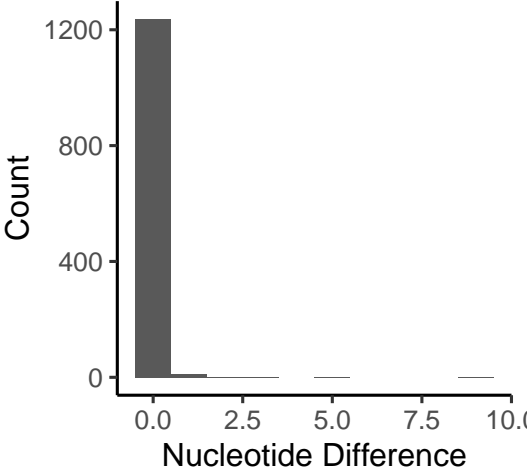
TRBV20-1*ap02

2138 sequences assigned
2122 (99.3%) exact matches, in which:
2089 unique CDR3
13 unique J



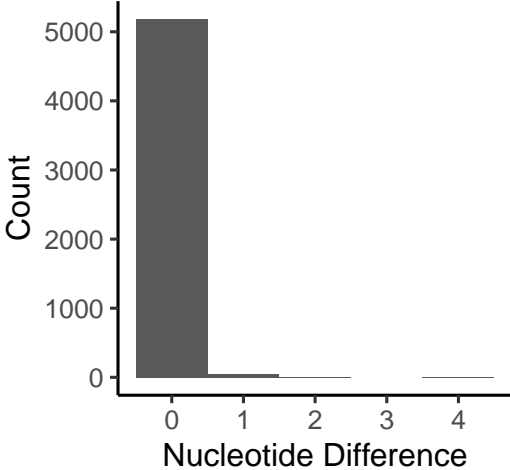
TRBV1*ap01

1255 sequences assigned
1237 (98.6%) exact matches, in which:
1193 unique CDR3
13 unique J



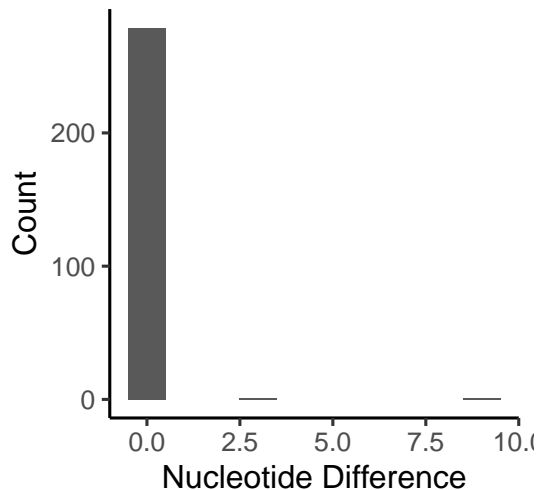
TRBV15*ap02

5233 sequences assigned
5184 (99.1%) exact matches, in which:
5080 unique CDR3
13 unique J



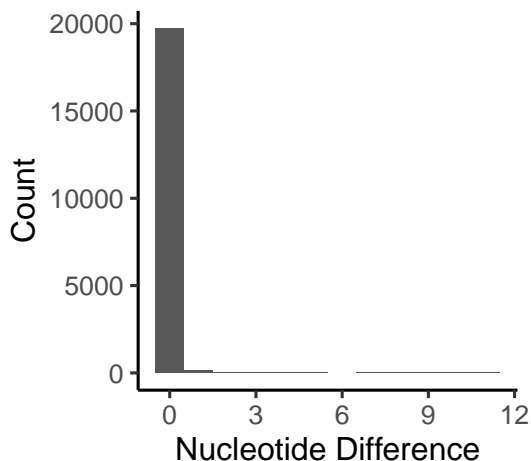
TRBV16*ap01

281 sequences assigned
279 (99.3%) exact matches, in which:
276 unique CDR3
12 unique J



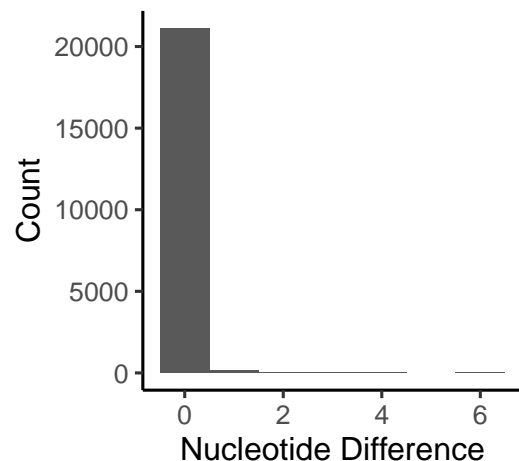
TRBV19*ap01

19930 sequences assigned
19742 (99.1%) exact matches, in which:
19546 unique CDR3
13 unique J



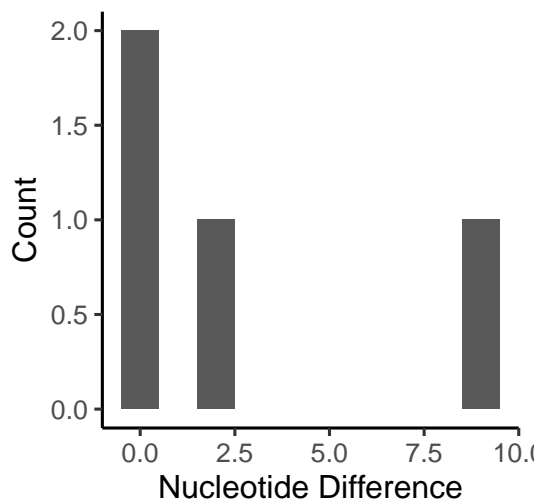
TRBV28*ap01

21319 sequences assigned
21127 (99.1%) exact matches, in which:
20740 unique CDR3
13 unique J



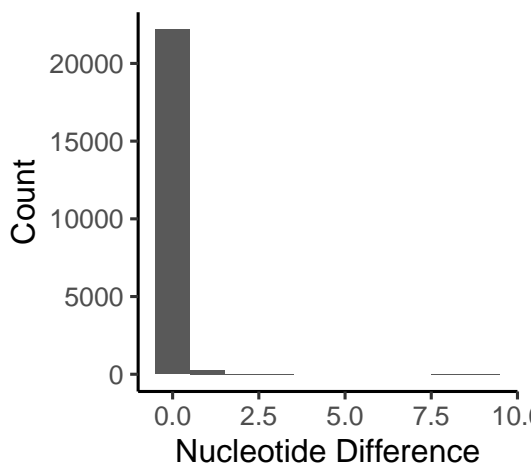
TRBV17*ap01

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



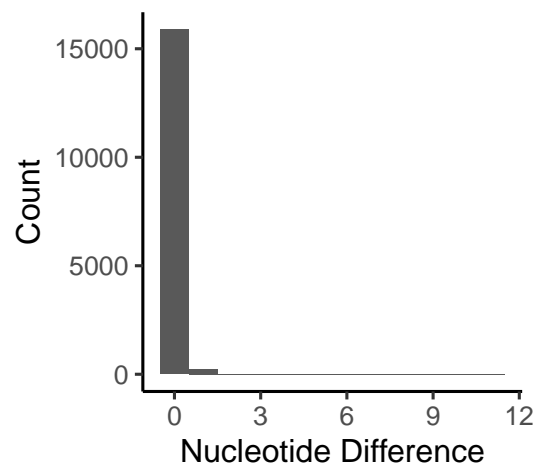
TRBV2*ap01

22469 sequences assigned
22185 (98.7%) exact matches, in which:
21629 unique CDR3
13 unique J



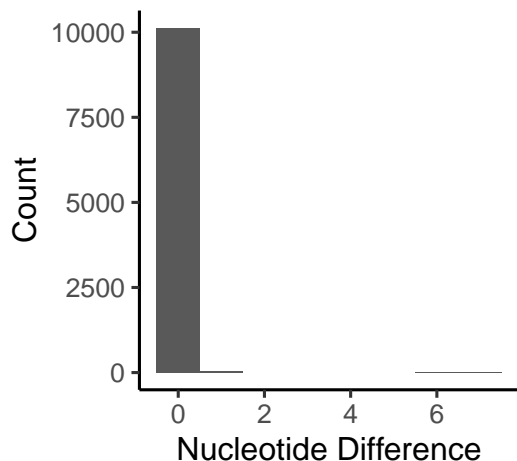
TRBV30*ap01

16157 sequences assigned
15889 (98.3%) exact matches, in which:
15595 unique CDR3
13 unique J



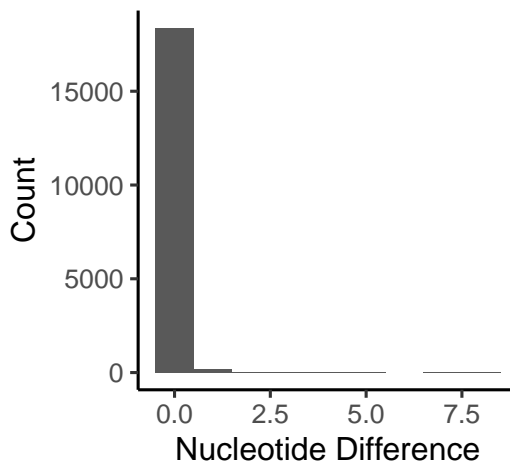
TRBV18*ap01

10175 sequences assigned
10131 (99.6%) exact matches, in which:
10033 unique CDR3
13 unique J



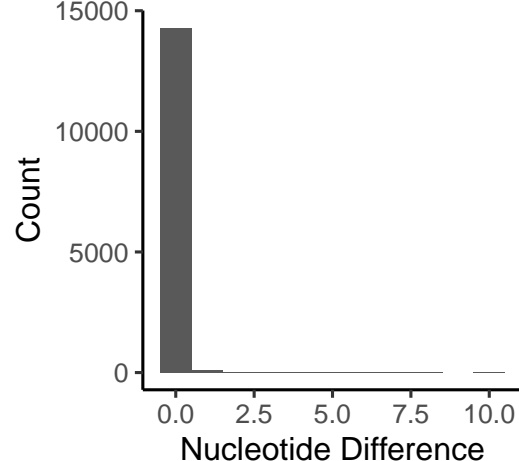
TRBV27*ap01

18603 sequences assigned
18383 (98.8%) exact matches, in which:
17915 unique CDR3
13 unique J



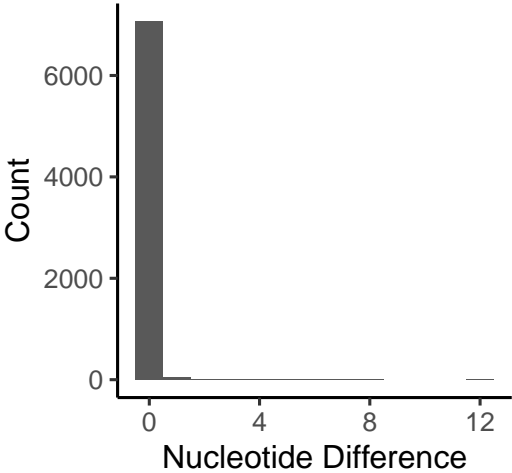
TRBV9*ap01

14427 sequences assigned
14293 (99.1%) exact matches, in which:
14058 unique CDR3
13 unique J



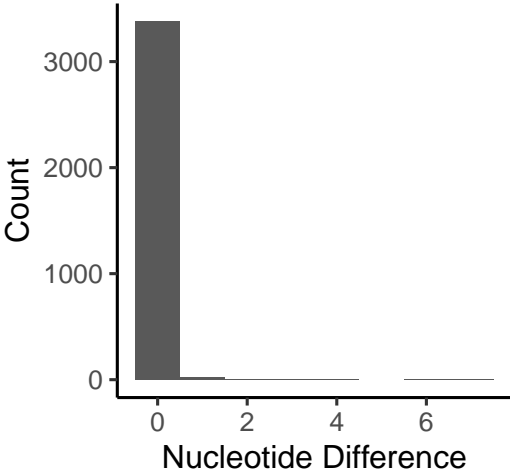
TRBV21-1*ap01

7158 sequences assigned
7067 (98.7%) exact matches, in which:
6984 unique CDR3
13 unique J



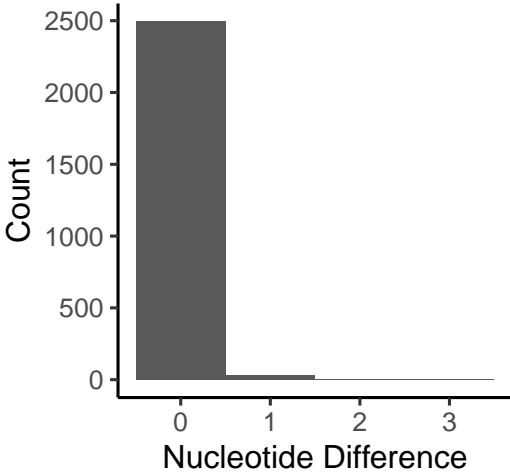
TRBV11-3*ap01

3407 sequences assigned
3379 (99.2%) exact matches, in which:
3330 unique CDR3
13 unique J



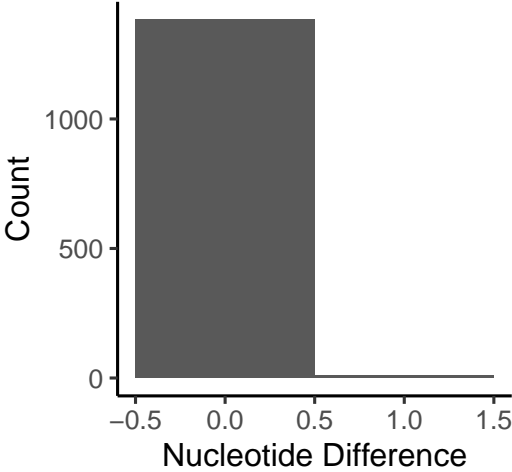
TRBV12-5*ap01

2529 sequences assigned
2495 (98.7%) exact matches, in which:
2442 unique CDR3
13 unique J



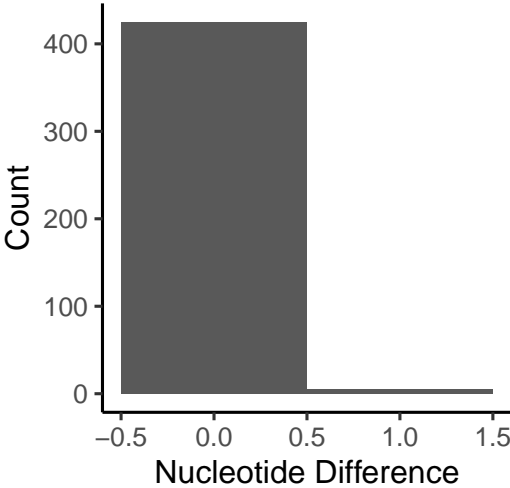
TRBV11-1*ap01

1392 sequences assigned
1383 (99.4%) exact matches, in which:
1346 unique CDR3
13 unique J



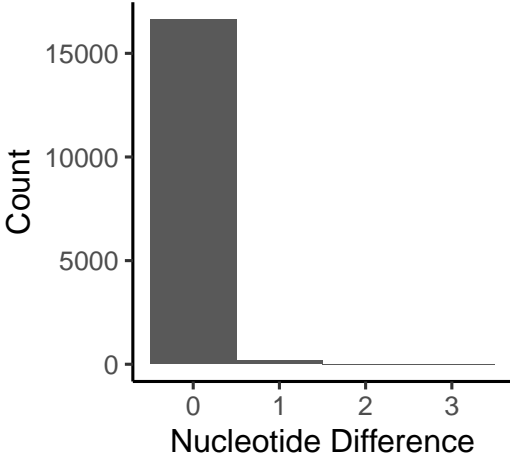
TRBV12-1*ap01

430 sequences assigned
425 (98.8%) exact matches, in which:
418 unique CDR3
13 unique J



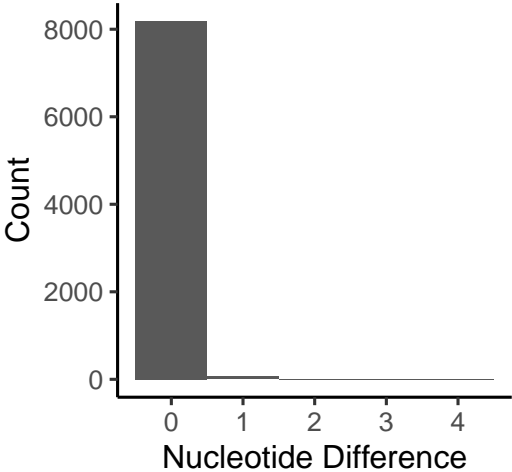
TRBV12-34*ap01

16831 sequences assigned
16634 (98.8%) exact matches, in which:
16282 unique CDR3
13 unique J



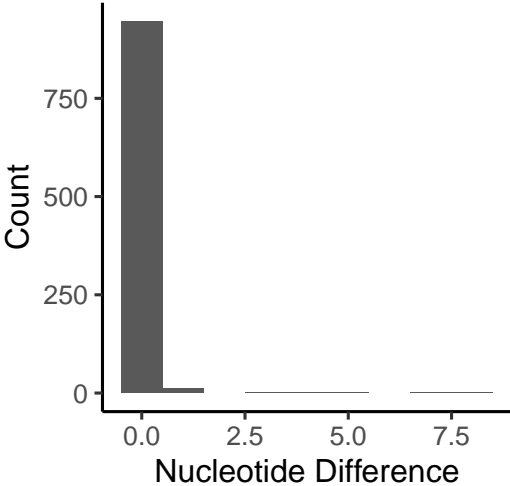
TRBV11-2*ap01

8262 sequences assigned
8187 (99.1%) exact matches, in which:
8043 unique CDR3
13 unique J



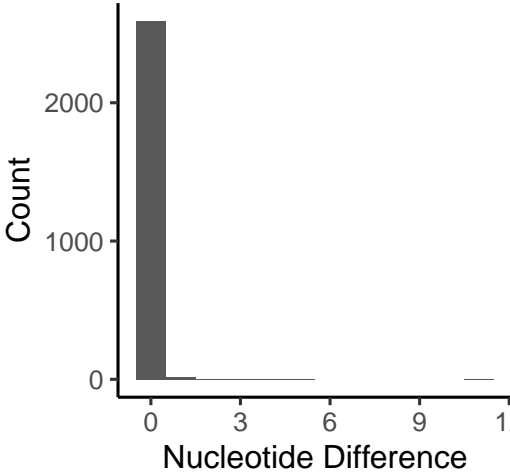
TRBV12-2*ap01

965 sequences assigned
946 (98%) exact matches, in which:
919 unique CDR3
13 unique J



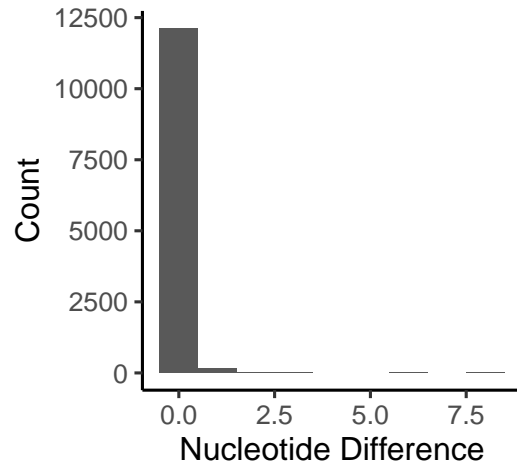
TRBV23-1*ap01

2619 sequences assigned
2591 (98.9%) exact matches, in which:
2555 unique CDR3
14 unique J



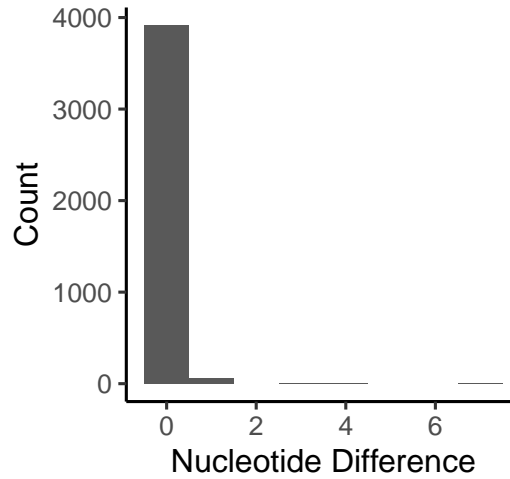
TRBV3–12*ap01

12305 sequences assigned
12130 (98.6%) exact matches, in which:
11839 unique CDR3
13 unique J



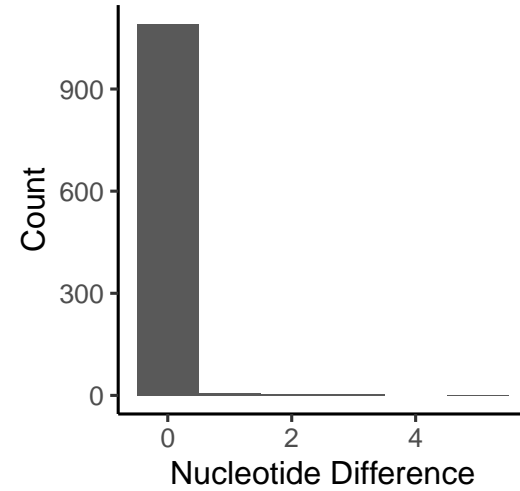
TRBV4–2*ap01

3977 sequences assigned
3914 (98.4%) exact matches, in which:
3829 unique CDR3
13 unique J



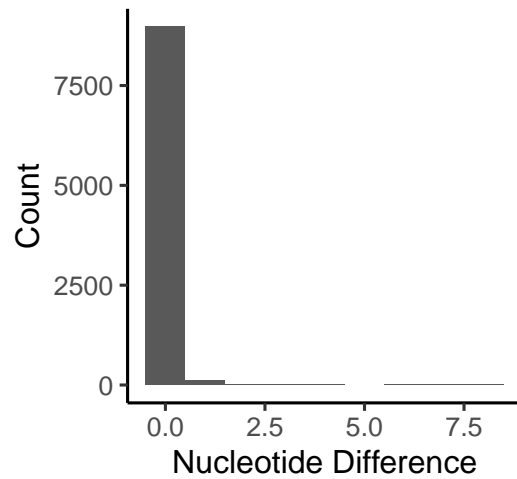
TRBV5–3*ap01

1108 sequences assigned
1092 (98.6%) exact matches, in which:
1080 unique CDR3
13 unique J



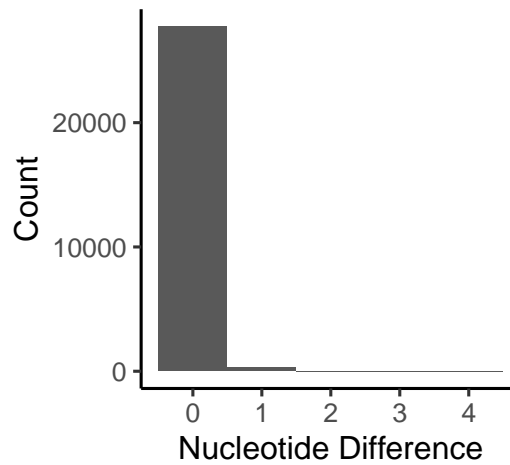
TRBV24–1*ap01

9114 sequences assigned
8973 (98.5%) exact matches, in which:
8790 unique CDR3
13 unique J



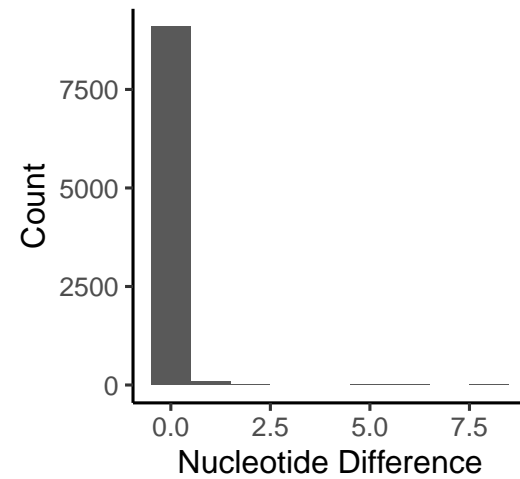
TRBV5–1*ap01

28051 sequences assigned
27740 (98.9%) exact matches, in which:
27064 unique CDR3
14 unique J



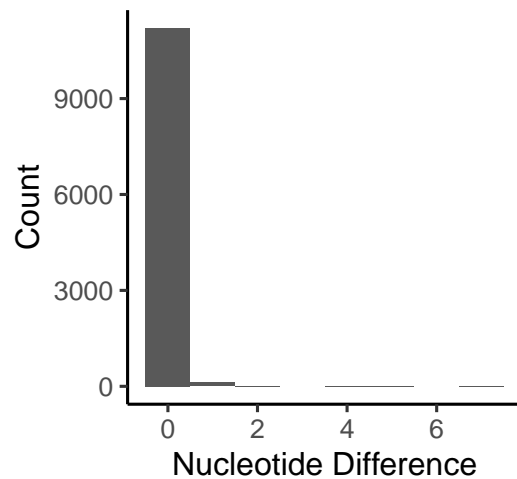
TRBV5–4*ap01

9189 sequences assigned
9092 (98.9%) exact matches, in which:
8864 unique CDR3
13 unique J



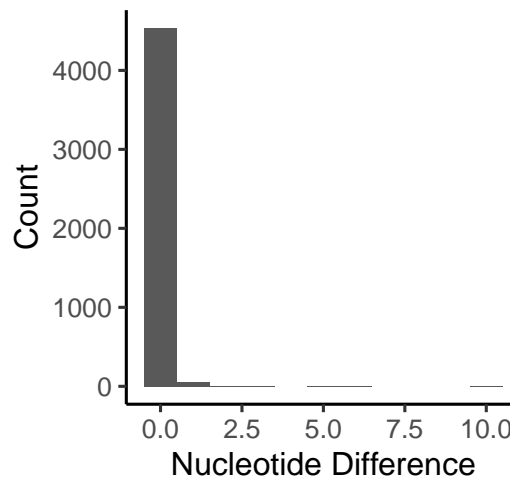
TRBV4–1*ap01

11330 sequences assigned
11206 (98.9%) exact matches, in which:
10894 unique CDR3
13 unique J



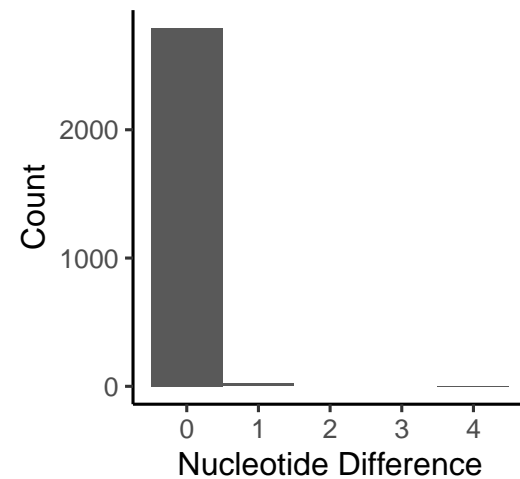
TRBV25–1*ap01

4594 sequences assigned
4536 (98.7%) exact matches, in which:
4446 unique CDR3
13 unique J



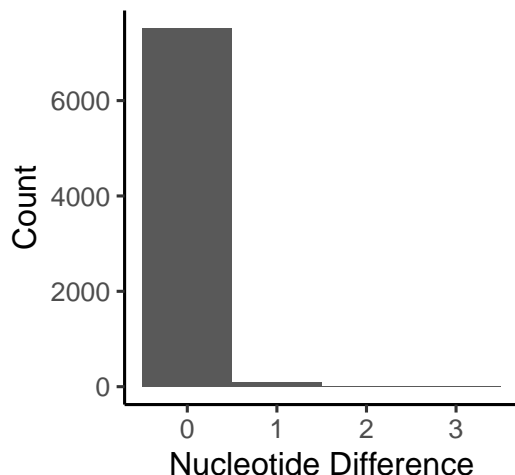
TRBV5–5*ap01

2815 sequences assigned
2793 (99.2%) exact matches, in which:
2769 unique CDR3
13 unique J



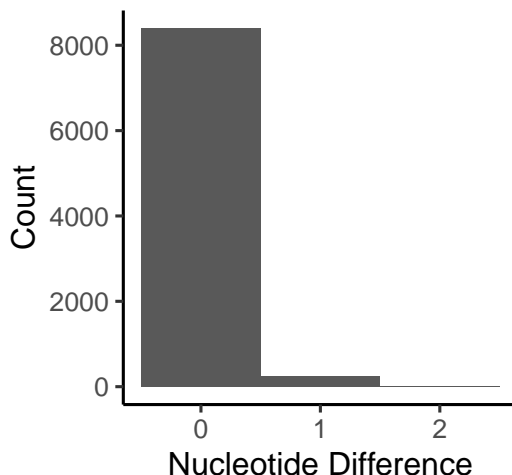
TRBV5-6*ap01

7603 sequences assigned
7514 (98.8%) exact matches, in which:
7297 unique CDR3
13 unique J



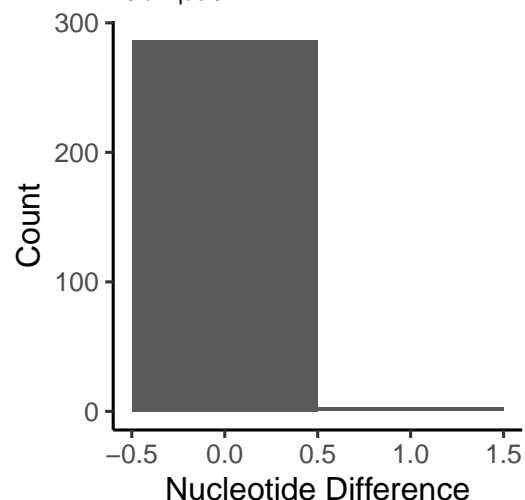
TRBV6-1*ap01

8639 sequences assigned
8395 (97.2%) exact matches, in which:
8190 unique CDR3
13 unique J



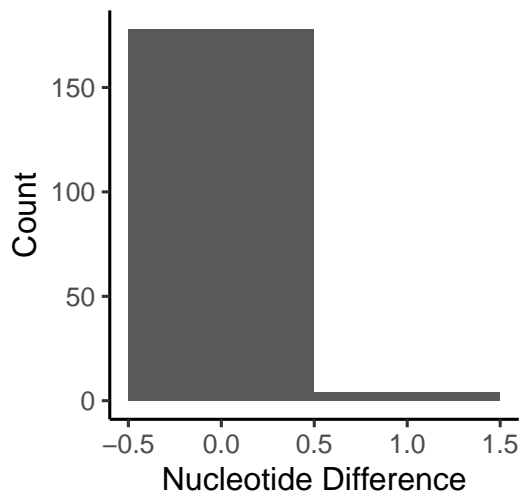
TRBV6-8*ap01

290 sequences assigned
287 (99%) exact matches, in which:
276 unique CDR3
13 unique J



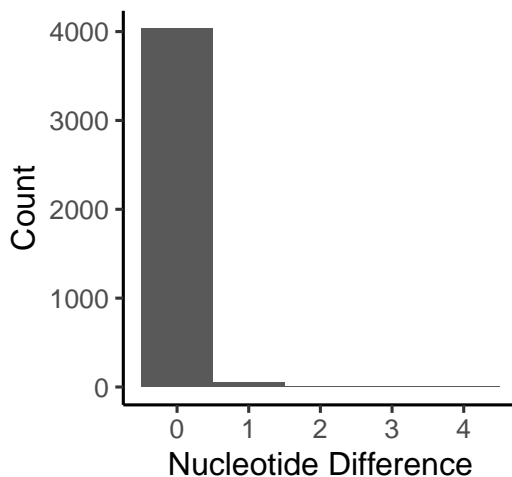
TRBV5-7*ap01

182 sequences assigned
178 (97.8%) exact matches, in which:
176 unique CDR3
12 unique J



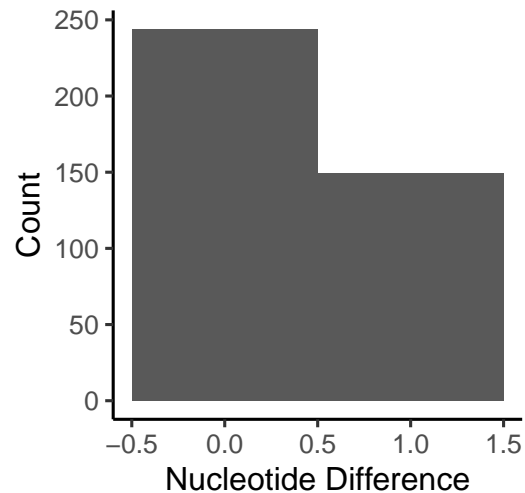
TRBV6-4*ap01

4088 sequences assigned
4032 (98.6%) exact matches, in which:
3961 unique CDR3
14 unique J



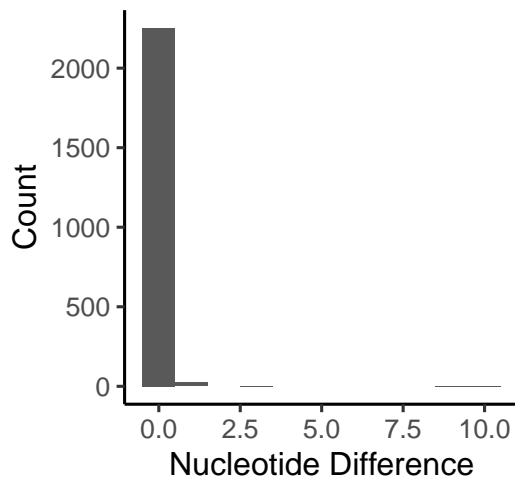
TRBV6-9*ap01

393 sequences assigned
244 (62.1%) exact matches, in which:
238 unique CDR3
13 unique J



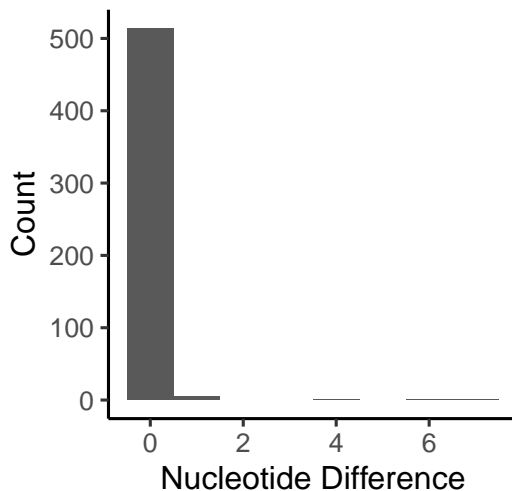
TRBV5-8*ap01

2278 sequences assigned
2252 (98.9%) exact matches, in which:
2219 unique CDR3
13 unique J



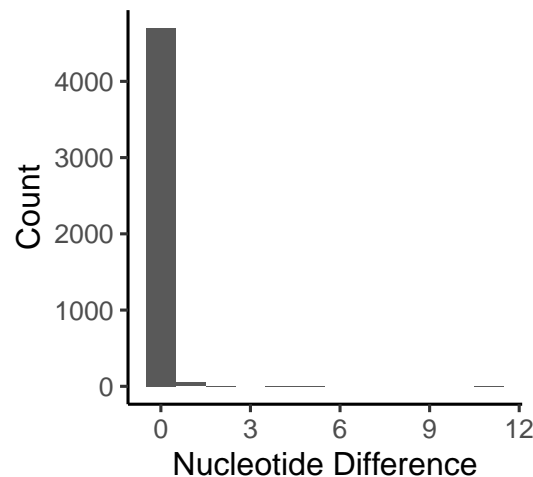
TRBV6-7*ap01

522 sequences assigned
514 (98.5%) exact matches, in which:
501 unique CDR3
13 unique J



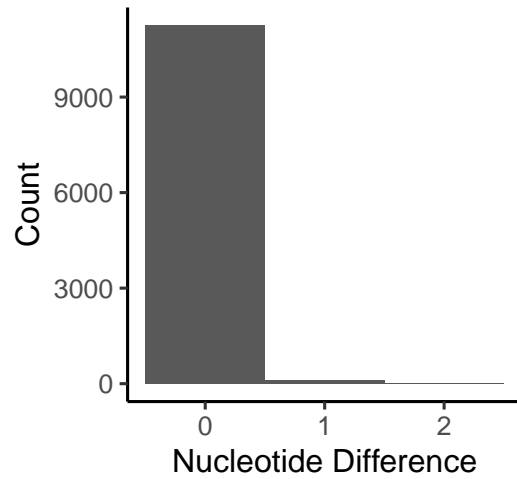
TRBV6-23*ap01

4752 sequences assigned
4699 (98.9%) exact matches, in which:
4570 unique CDR3
13 unique J



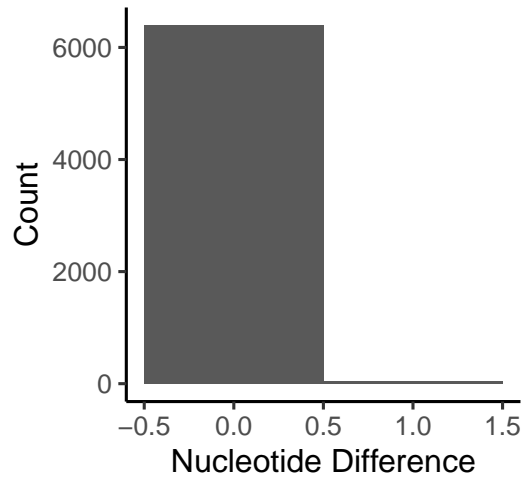
TRBV6-56*ap01

11367 sequences assigned
11250 (99%) exact matches, in which:
10948 unique CDR3
13 unique J



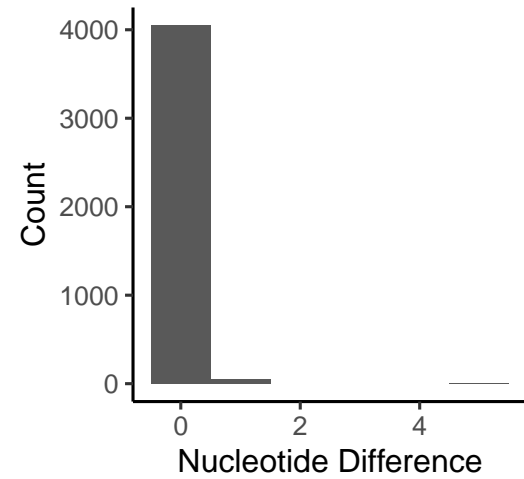
TRBV7-2*ap01

6436 sequences assigned
6393 (99.3%) exact matches, in which:
6284 unique CDR3
13 unique J



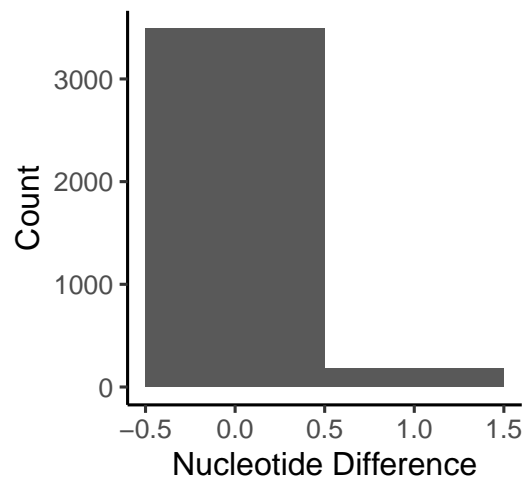
TRBV7-6*ap01

4105 sequences assigned
4049 (98.6%) exact matches, in which:
3955 unique CDR3
13 unique J



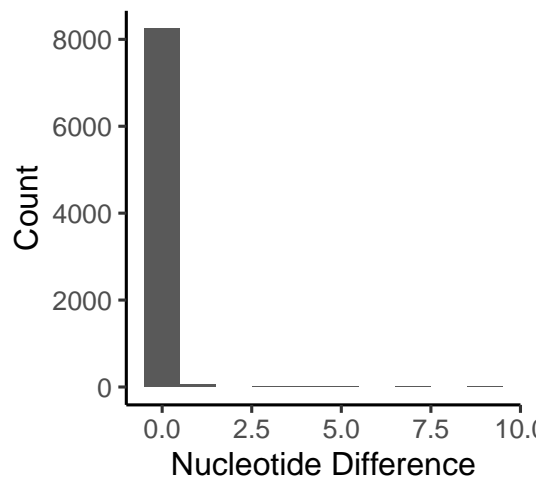
TRBV6-56*ap02

3667 sequences assigned
3489 (95.1%) exact matches, in which:
3394 unique CDR3
13 unique J



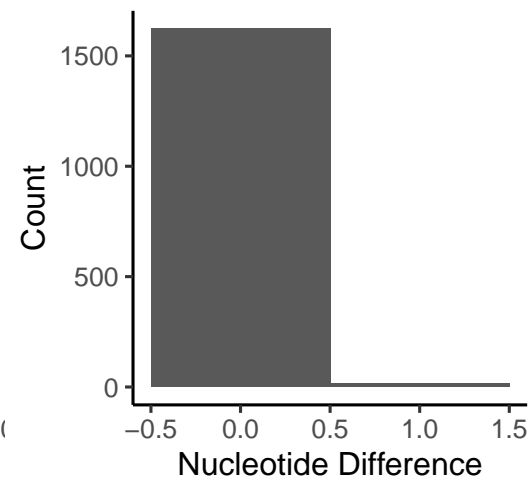
TRBV7-3*ap01

8322 sequences assigned
8244 (99.1%) exact matches, in which:
8135 unique CDR3
14 unique J



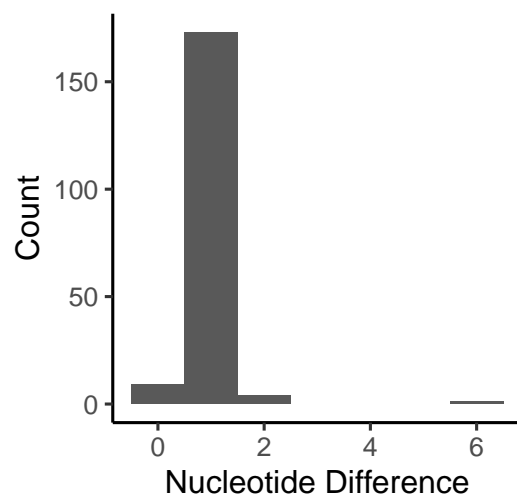
TRBV7-7*ap01_C315T

1638 sequences assigned
1623 (99.1%) exact matches, in which:
1587 unique CDR3
13 unique J



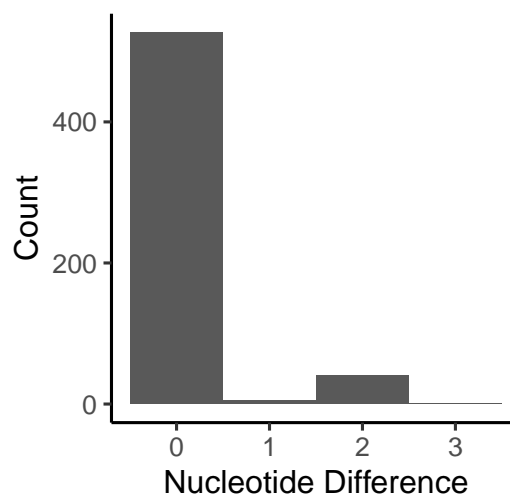
TRBV7-1*ap01_T296C

187 sequences assigned
9 (4.8%) exact matches, in which:
9 unique CDR3
6 unique J



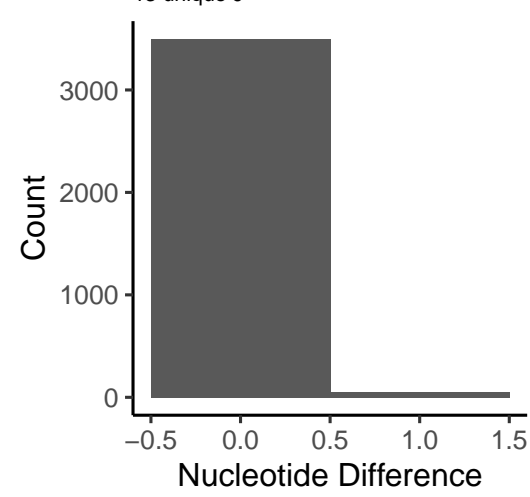
TRBV7-4*ap01

573 sequences assigned
527 (92%) exact matches, in which:
514 unique CDR3
13 unique J



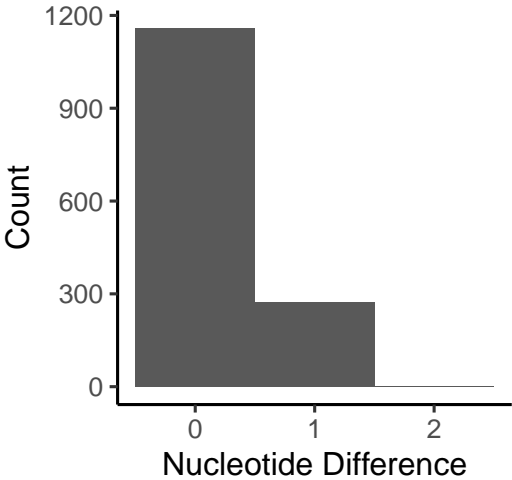
TRBV7-8*ap01

3547 sequences assigned
3497 (98.6%) exact matches, in which:
3411 unique CDR3
13 unique J



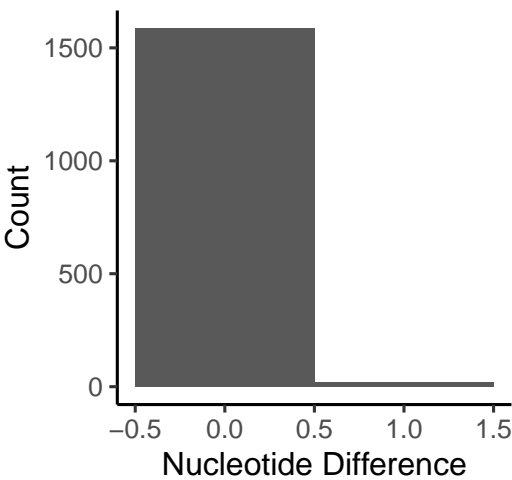
TRBV7-8*ap03

1431 sequences assigned
1158 (80.9%) exact matches, in which:
1132 unique CDR3
13 unique J



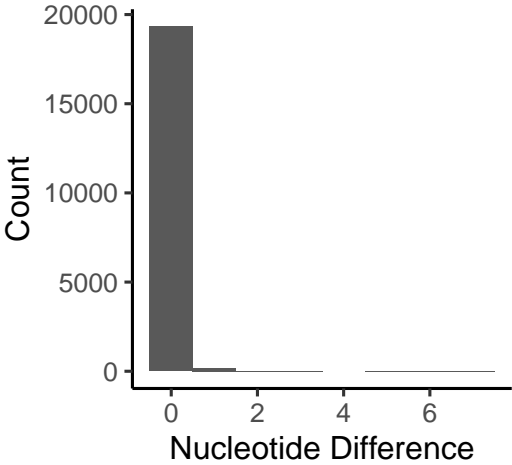
TRBV29-1*ap02

1604 sequences assigned
1586 (98.9%) exact matches, in which:
1562 unique CDR3
13 unique J



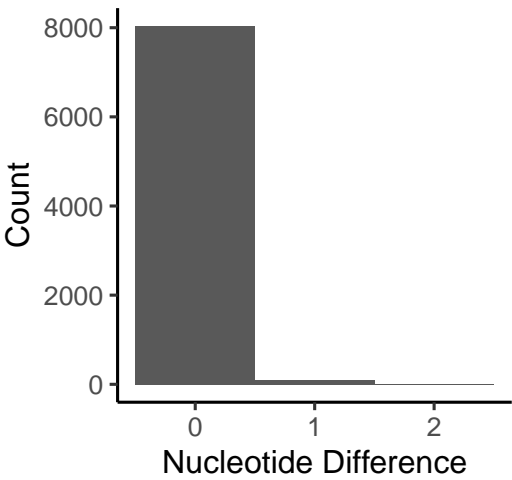
TRBV7-9*ap01

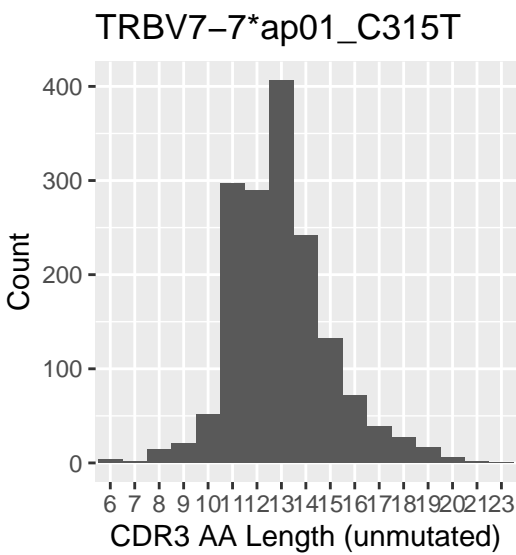
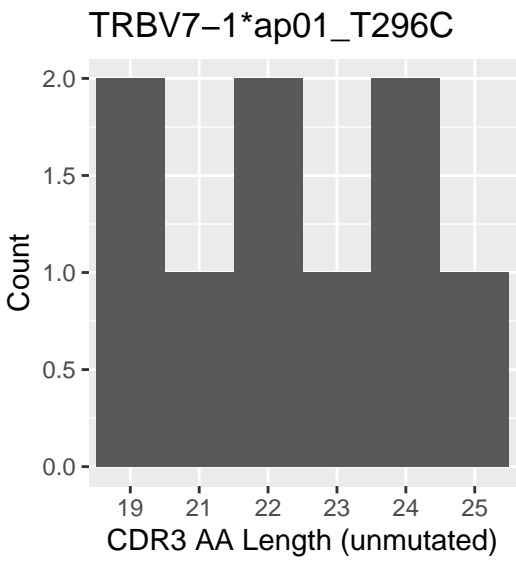
19532 sequences assigned
19332 (99%) exact matches, in which:
19041 unique CDR3
13 unique J



TRBV29-1*ap01

8142 sequences assigned
8037 (98.7%) exact matches, in which:
7863 unique CDR3
13 unique J







[illegible]