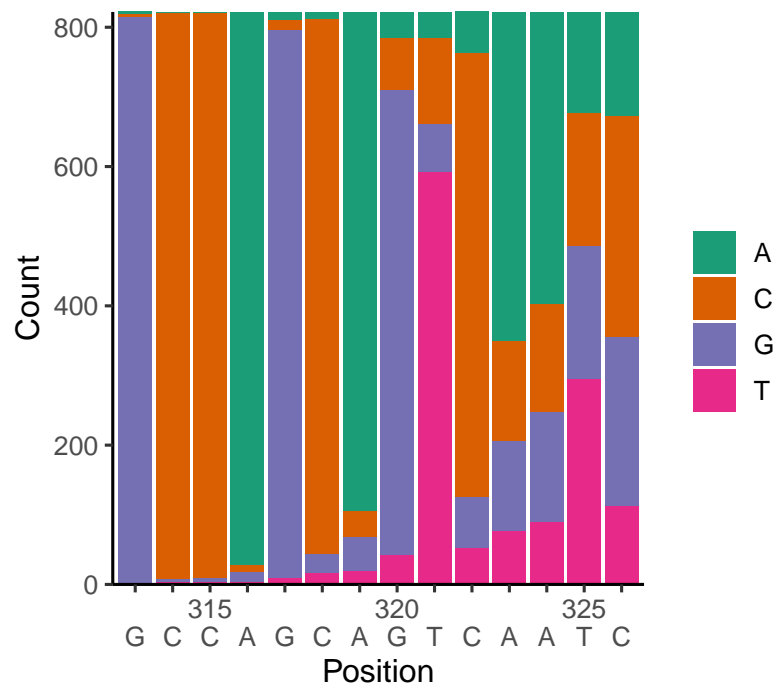
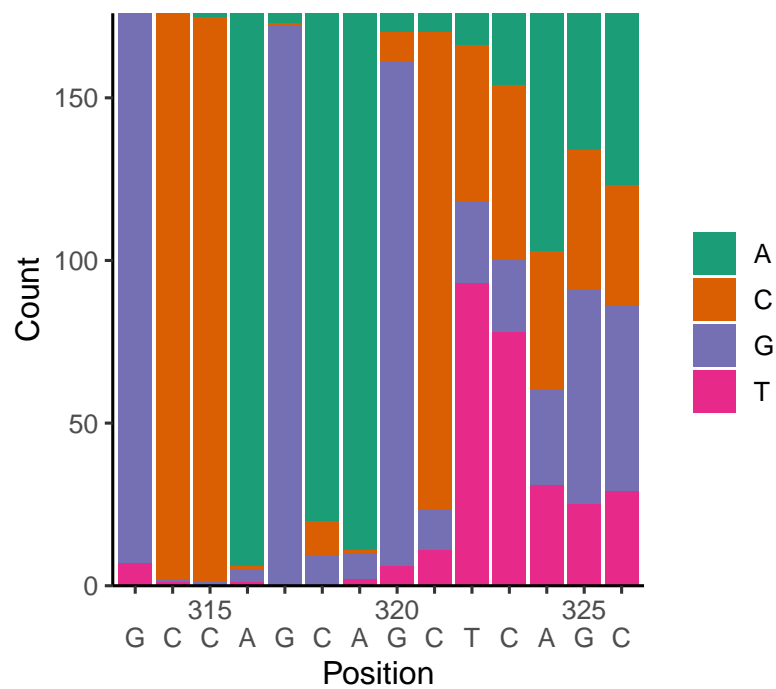


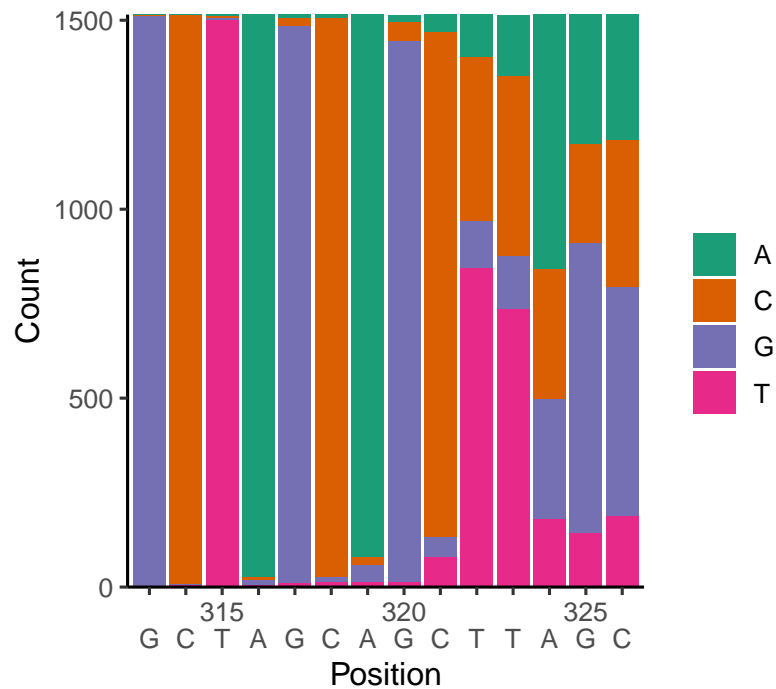
Gene TRBV23-1*ap01_T304C



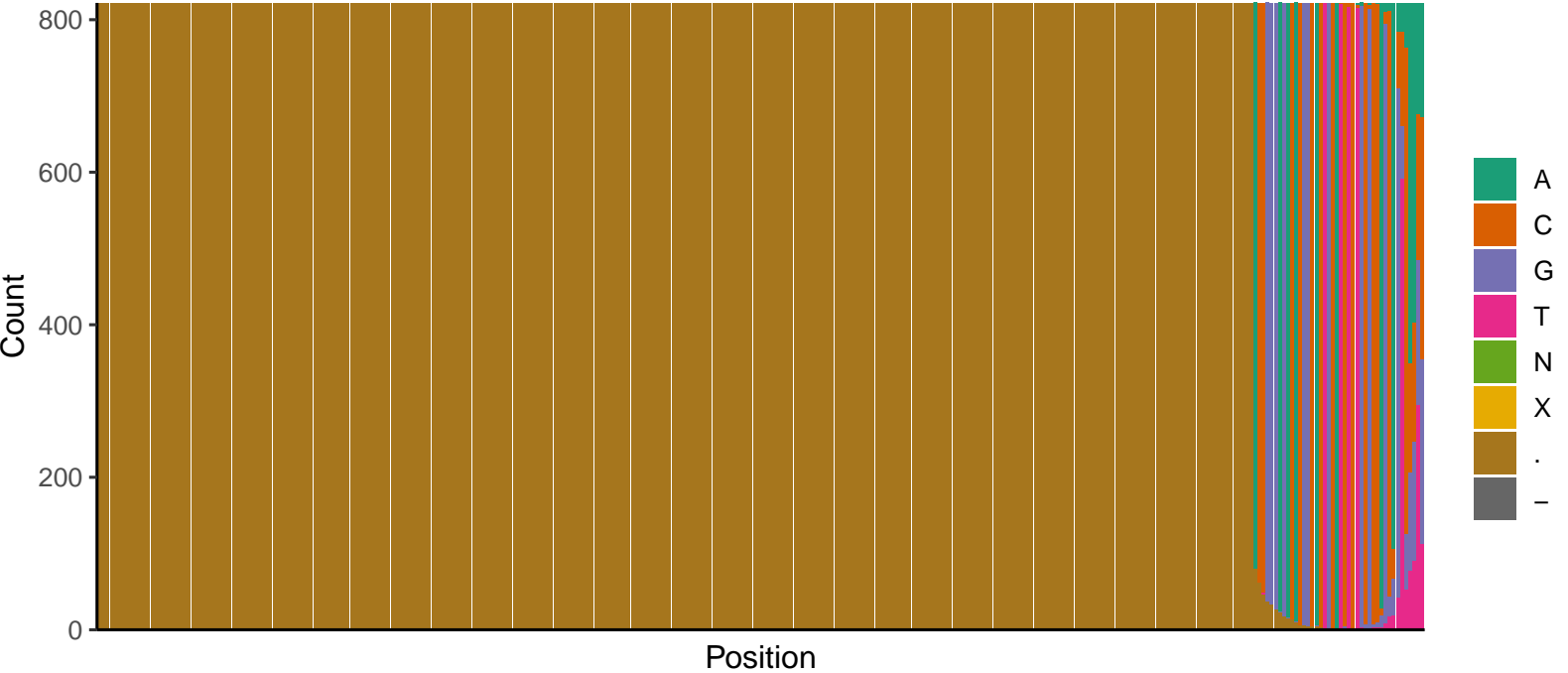
Gene TRBV7-1*ap01_G291C_T296C



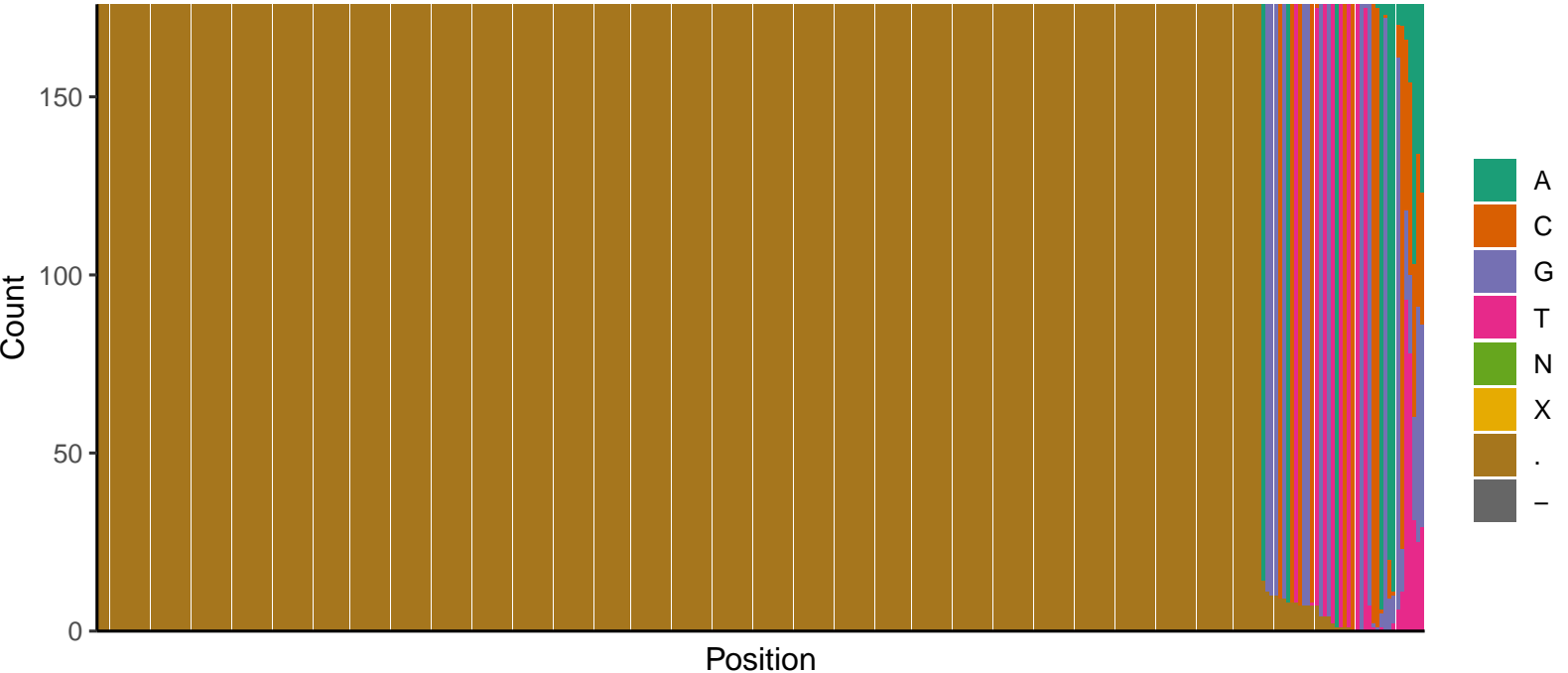
Gene TRBV7-7*ap01_C315T



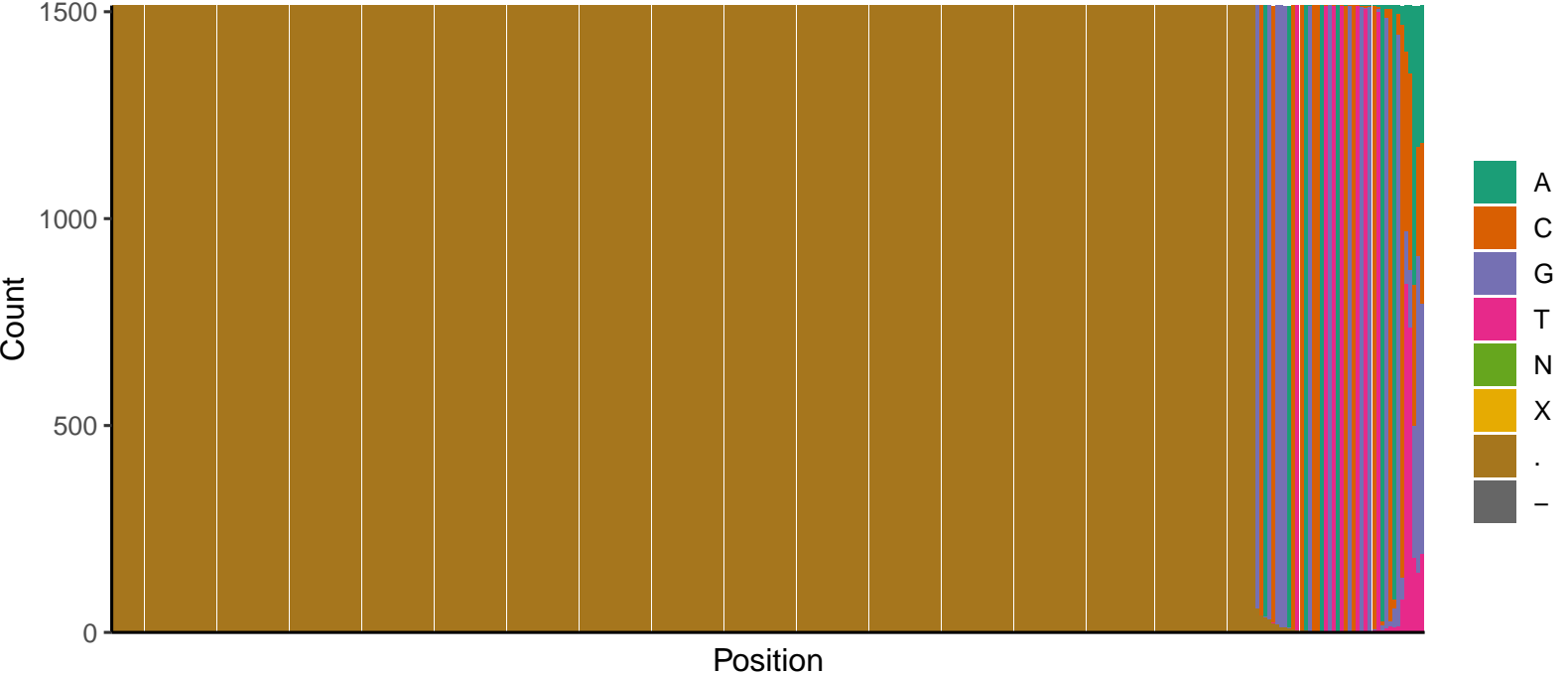
Gene TRBV23-1*ap01_T304C



Gene TRBV7-1*ap01_G291C_T296C



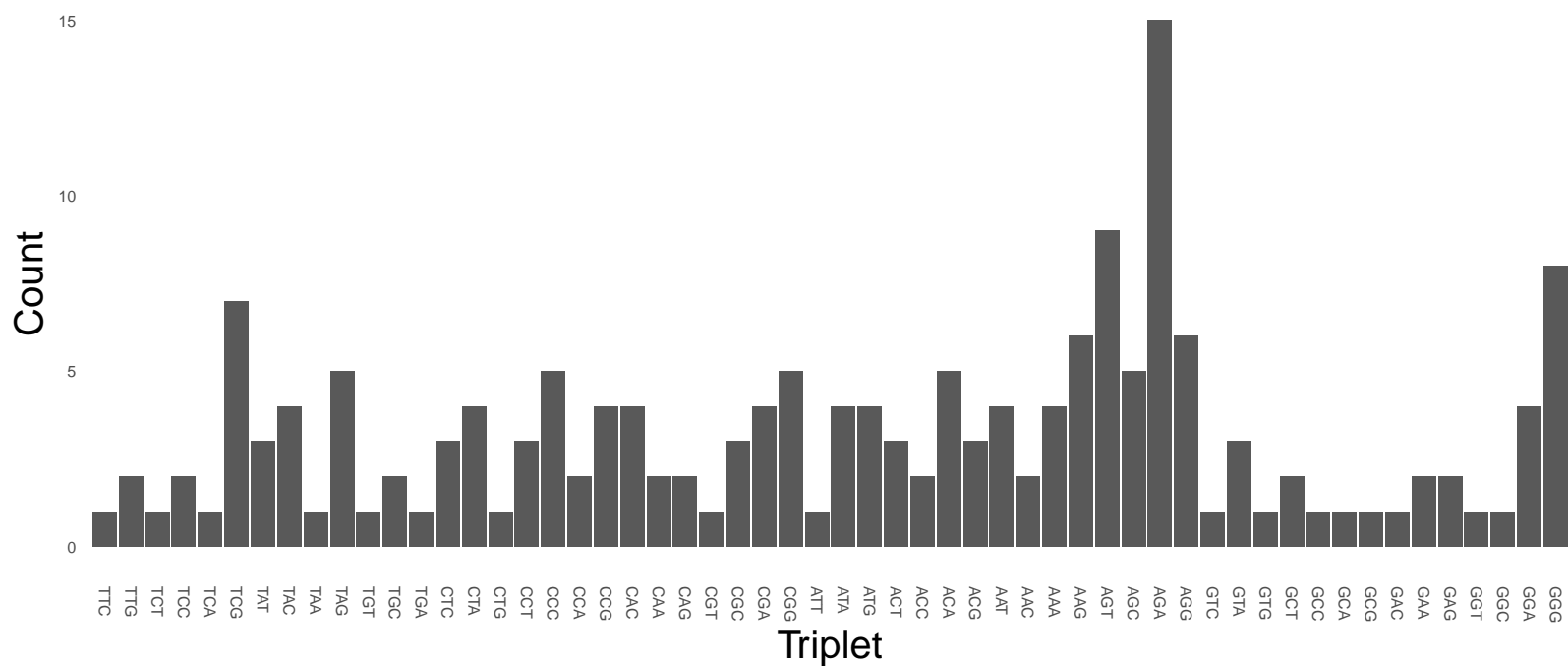
Gene TRBV7-7*ap01_C315T



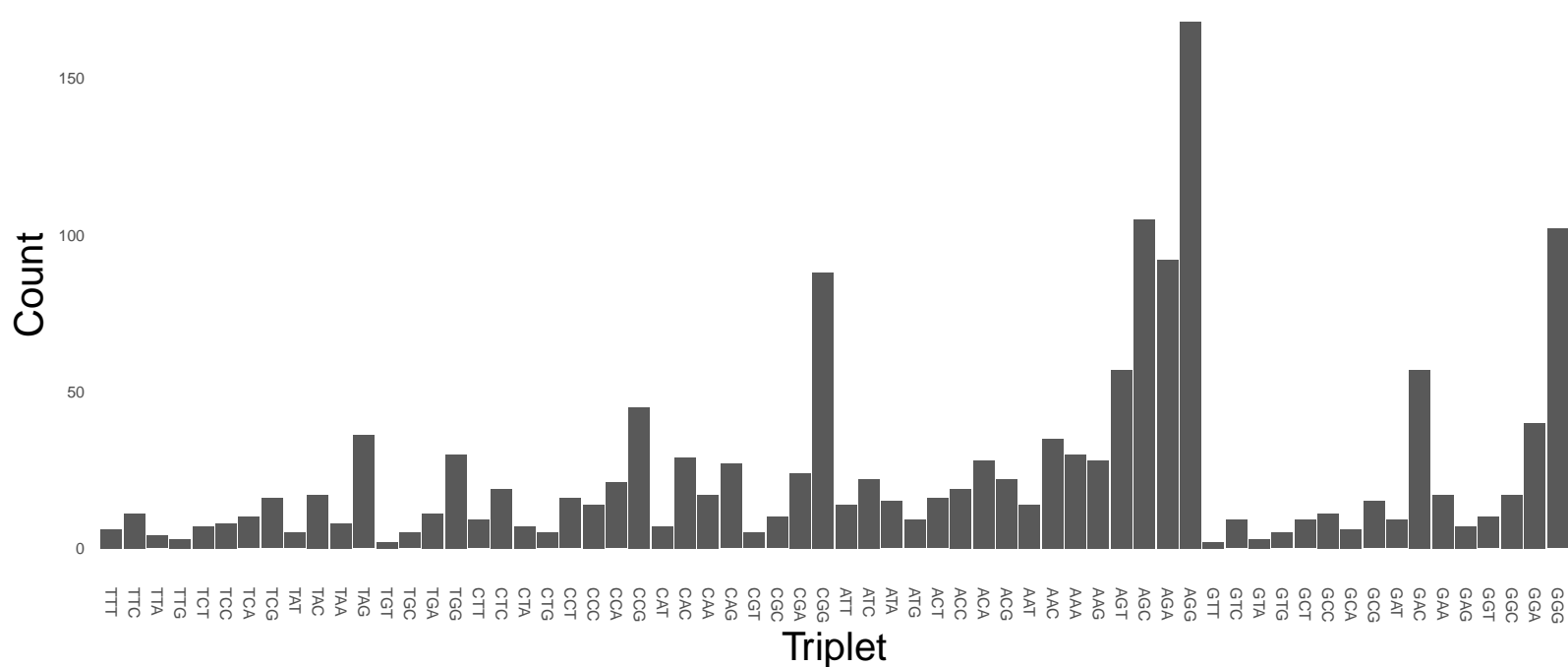
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



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

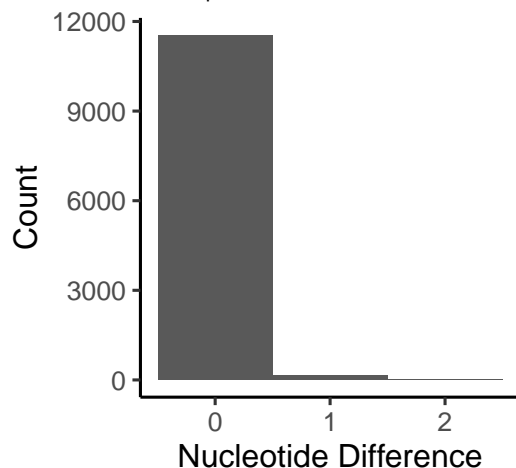


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



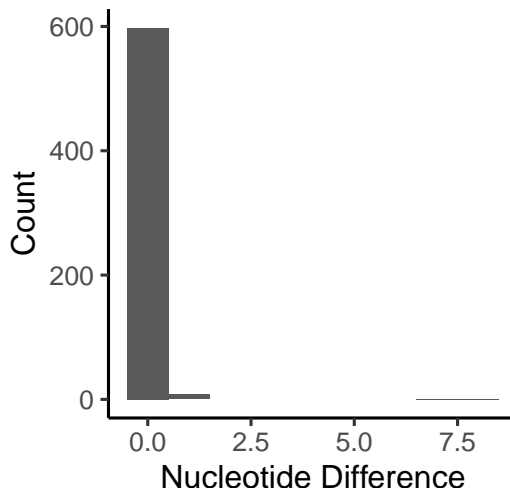
TRBV20-1*ap01

11704 sequences assigned
11542 (98.6%) exact matches, in which:
11333 unique CDR3
13 unique J



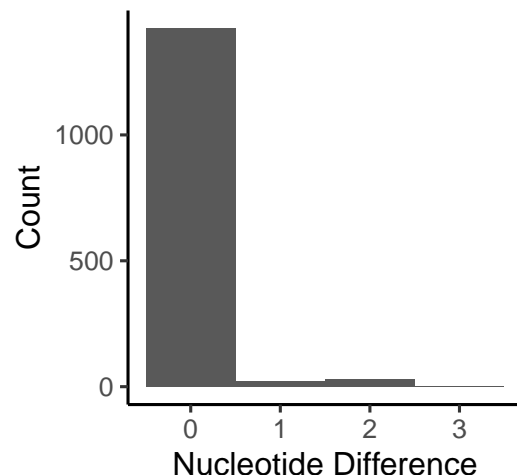
TRBV10-2*ap01

608 sequences assigned
598 (98.4%) exact matches, in which:
584 unique CDR3
13 unique J



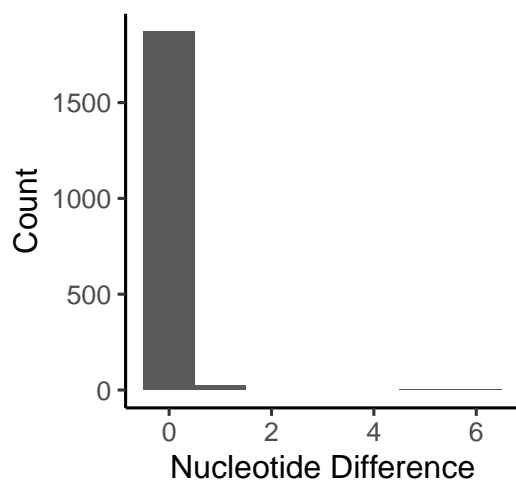
TRBV13*ap01

1474 sequences assigned
1423 (96.5%) exact matches, in which:
1396 unique CDR3
13 unique J



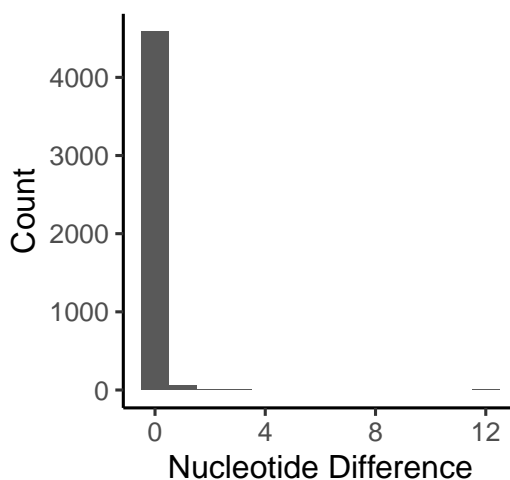
TRBV10-1*ap01

1896 sequences assigned
1870 (98.6%) exact matches, in which:
1819 unique CDR3
13 unique J



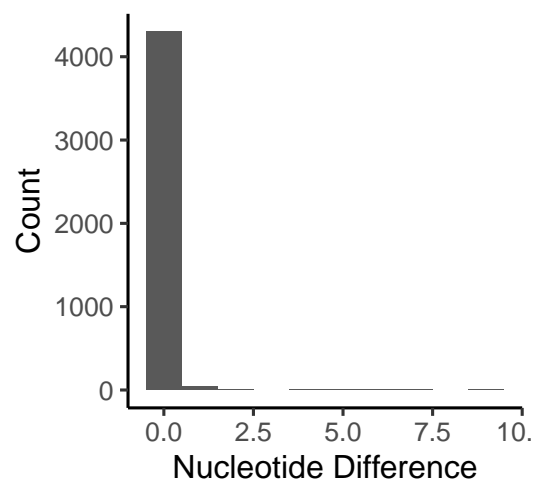
TRBV10-3*ap01

4642 sequences assigned
4584 (98.8%) exact matches, in which:
4467 unique CDR3
13 unique J



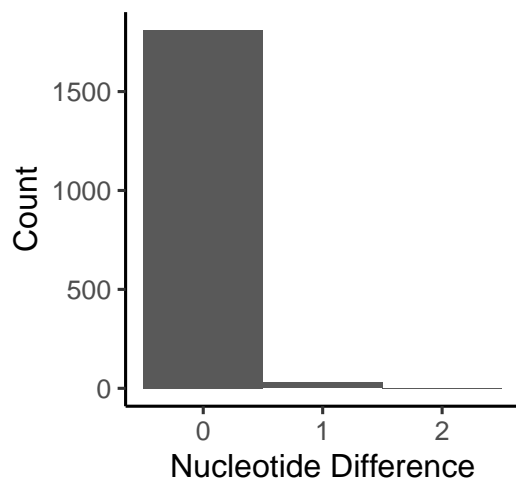
TRBV14*ap01

4354 sequences assigned
4300 (98.8%) exact matches, in which:
4214 unique CDR3
13 unique J



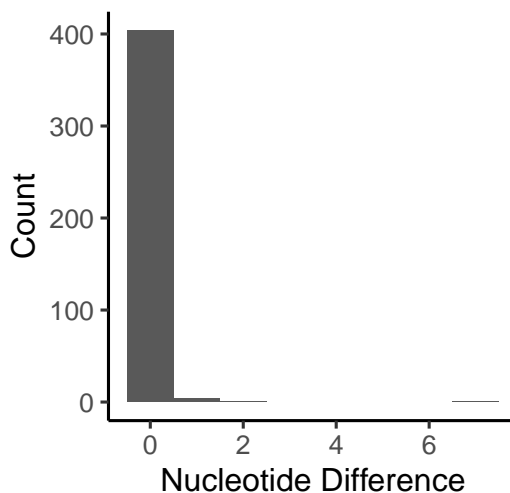
TRBV20-1*ap02

1841 sequences assigned
1811 (98.4%) exact matches, in which:
1766 unique CDR3
13 unique J



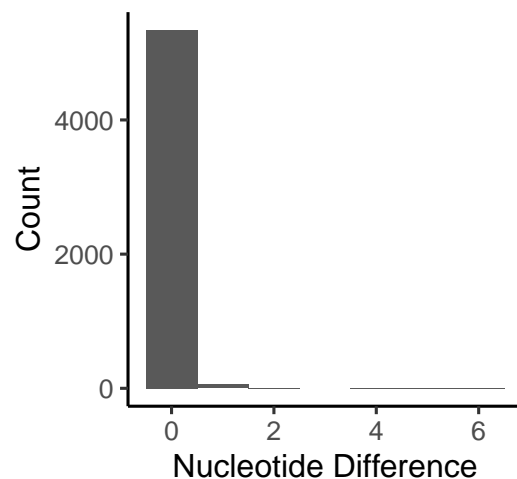
TRBV1*ap01

410 sequences assigned
404 (98.5%) exact matches, in which:
396 unique CDR3
13 unique J



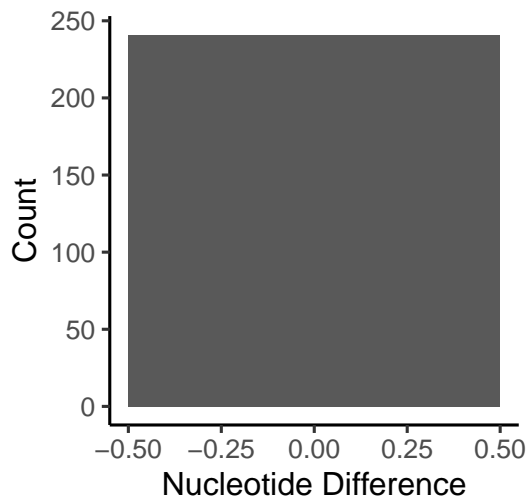
TRBV15*ap02

5404 sequences assigned
5340 (98.8%) exact matches, in which:
5196 unique CDR3
13 unique J



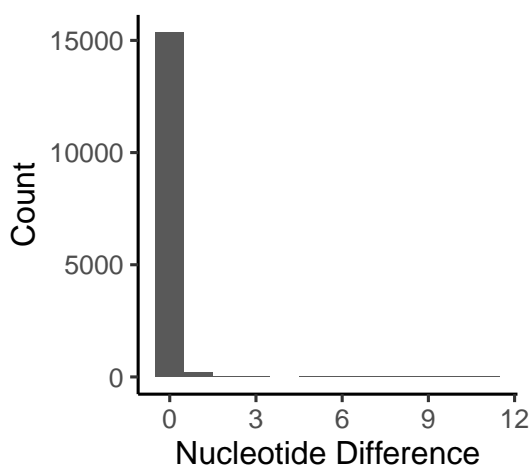
TRBV16*ap01

241 sequences assigned
241 (100%) exact matches, in which:
237 unique CDR3
13 unique J



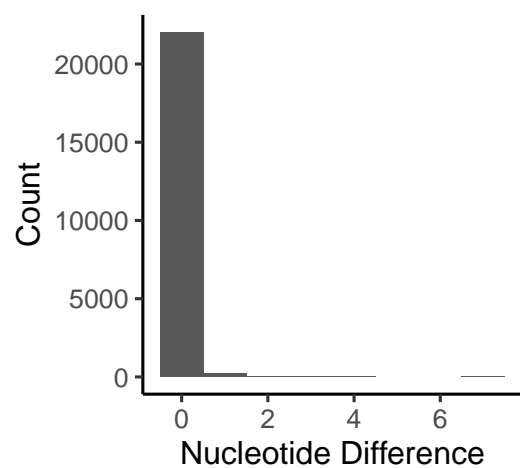
TRBV19*ap01

15589 sequences assigned
15368 (98.6%) exact matches, in which:
15149 unique CDR3
13 unique J



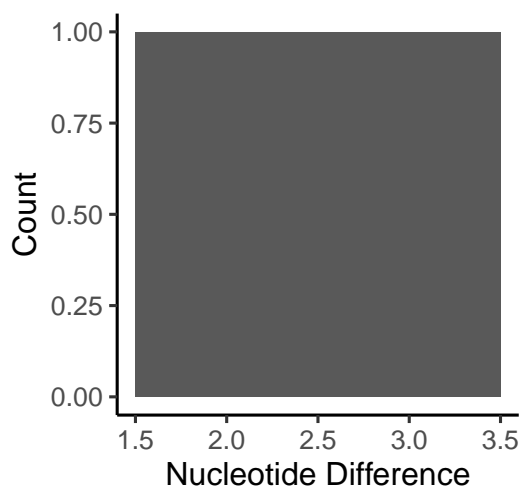
TRBV28*ap01

22301 sequences assigned
22037 (98.8%) exact matches, in which:
21524 unique CDR3
13 unique J



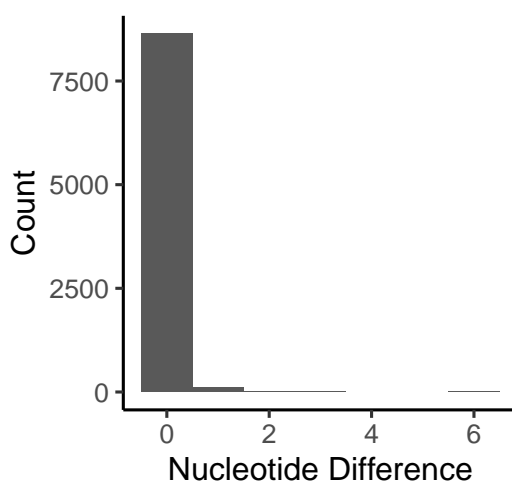
TRBV17*ap01

2 sequences assigned
No exact matches.



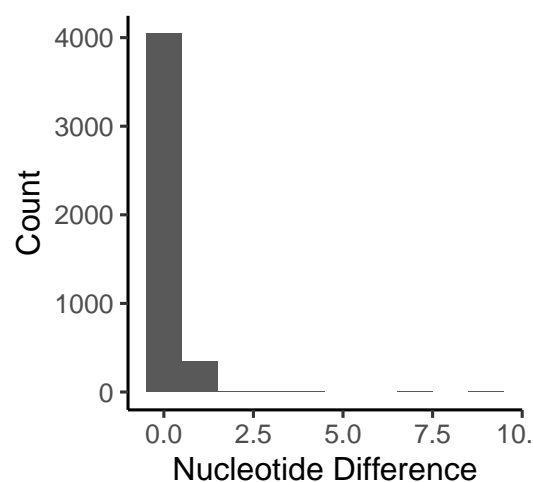
TRBV2*ap01

8763 sequences assigned
8640 (98.6%) exact matches, in which:
8457 unique CDR3
13 unique J



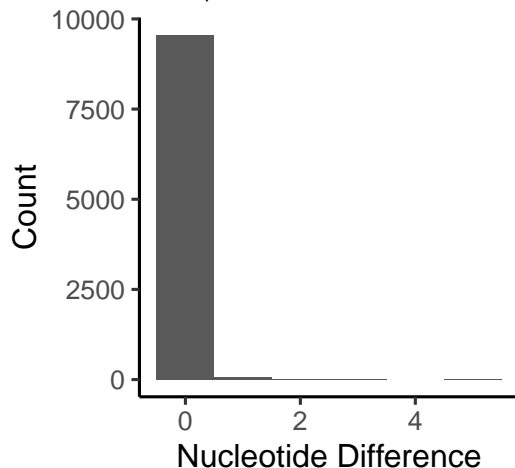
TRBV30*ap01

4397 sequences assigned
4044 (92%) exact matches, in which:
3960 unique CDR3
13 unique J



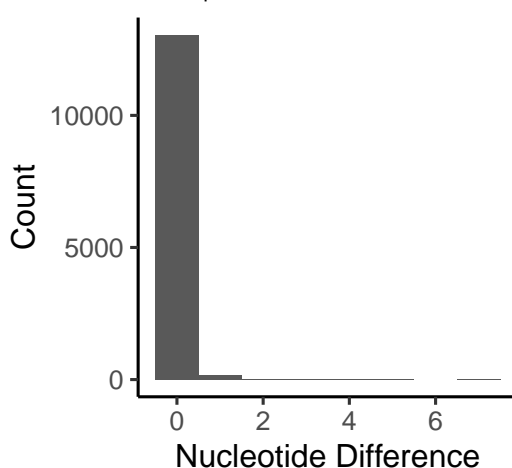
TRBV18*ap01

9633 sequences assigned
9560 (99.2%) exact matches, in which:
9416 unique CDR3
13 unique J



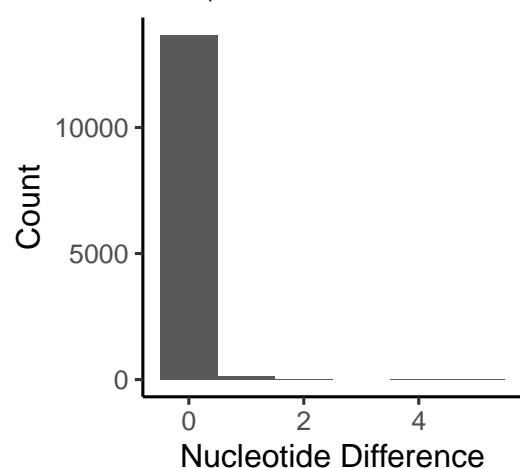
TRBV27*ap01

13236 sequences assigned
13050 (98.6%) exact matches, in which:
12691 unique CDR3
13 unique J



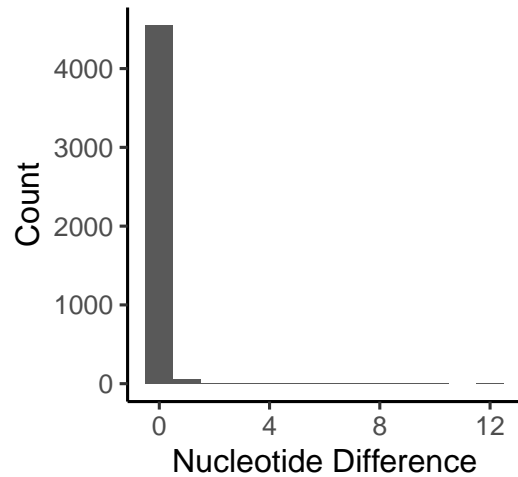
TRBV9*ap01

13831 sequences assigned
13677 (98.9%) exact matches, in which:
13379 unique CDR3
13 unique J



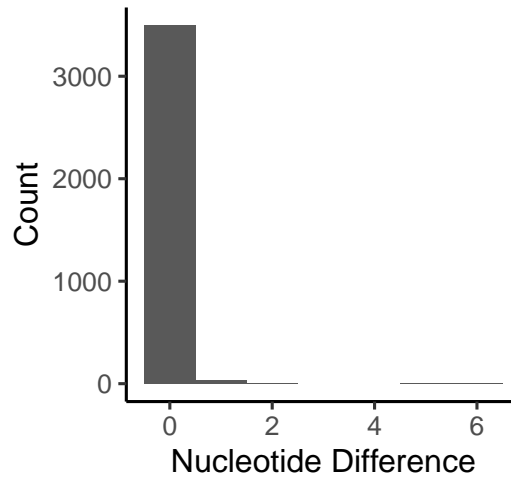
TRBV21-1*ap01

4628 sequences assigned
4548 (98.3%) exact matches, in which:
4469 unique CDR3
13 unique J



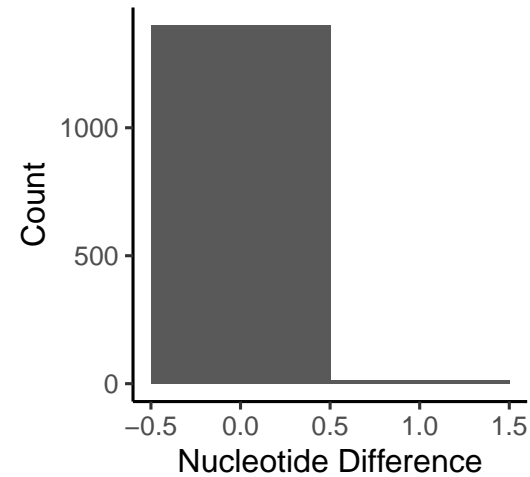
TRBV11-3*ap01

3532 sequences assigned
3496 (99%) exact matches, in which:
3411 unique CDR3
13 unique J



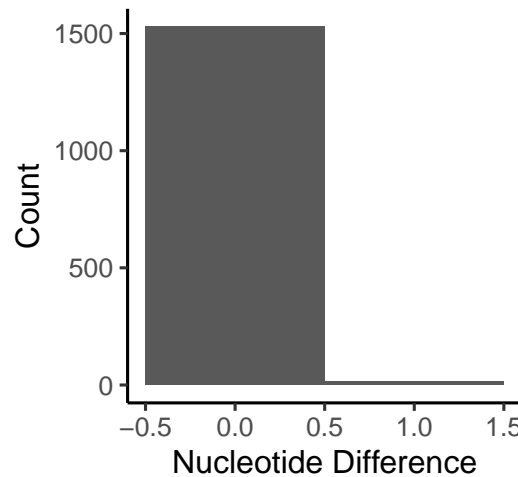
TRBV12-5*ap01

1415 sequences assigned
1400 (98.9%) exact matches, in which:
1375 unique CDR3
13 unique J



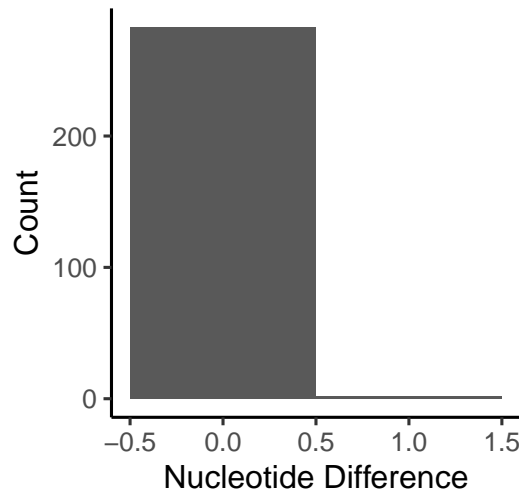
TRBV11-1*ap01

1543 sequences assigned
1529 (99.1%) exact matches, in which:
1494 unique CDR3
13 unique J



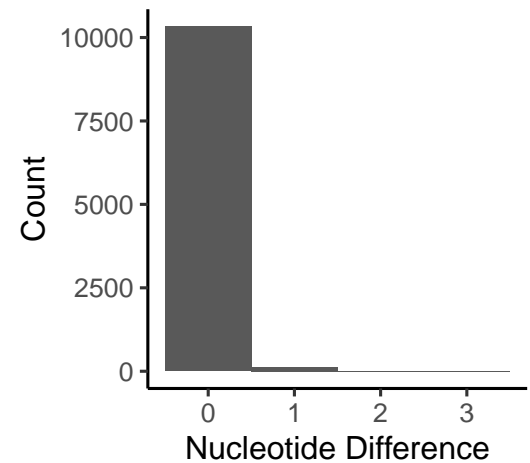
TRBV12-1*ap01

285 sequences assigned
283 (99.3%) exact matches, in which:
271 unique CDR3
13 unique J



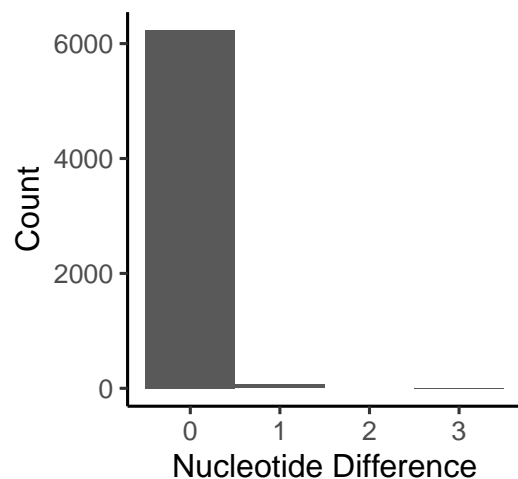
TRBV12-34*ap01

10459 sequences assigned
10331 (98.8%) exact matches, in which:
10102 unique CDR3
13 unique J



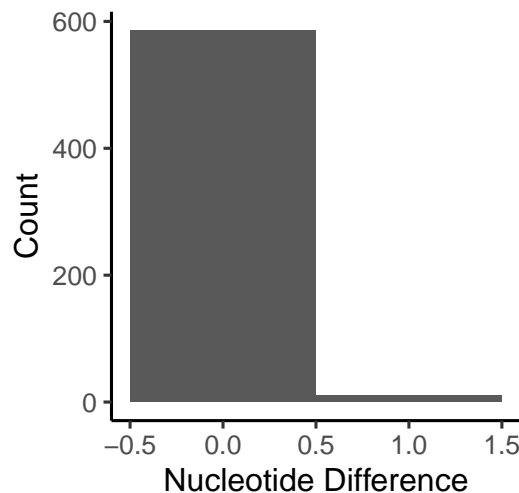
TRBV11-2*ap01

6302 sequences assigned
6236 (99%) exact matches, in which:
6096 unique CDR3
13 unique J



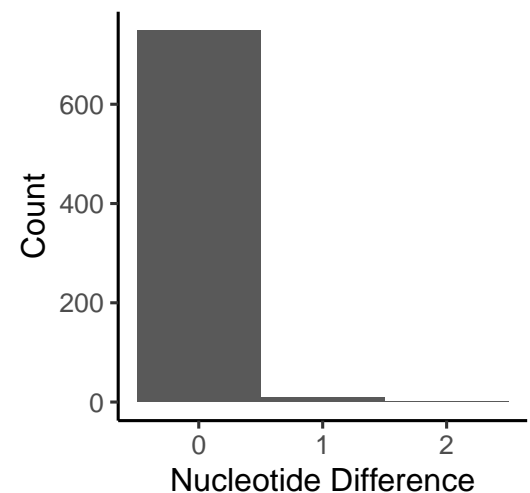
TRBV12-2*ap01

597 sequences assigned
586 (98.2%) exact matches, in which:
569 unique CDR3
13 unique J



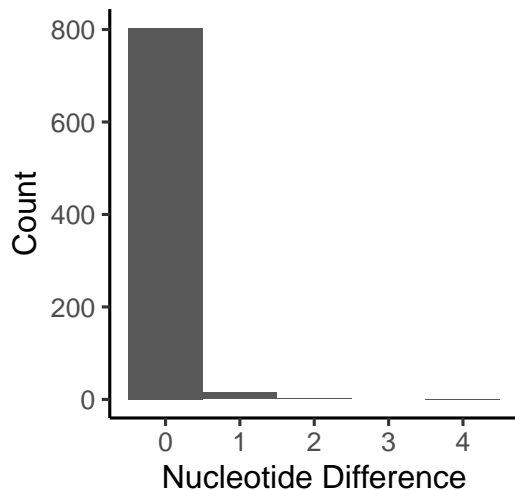
TRBV23-1*ap01

759 sequences assigned
749 (98.7%) exact matches, in which:
737 unique CDR3
13 unique J



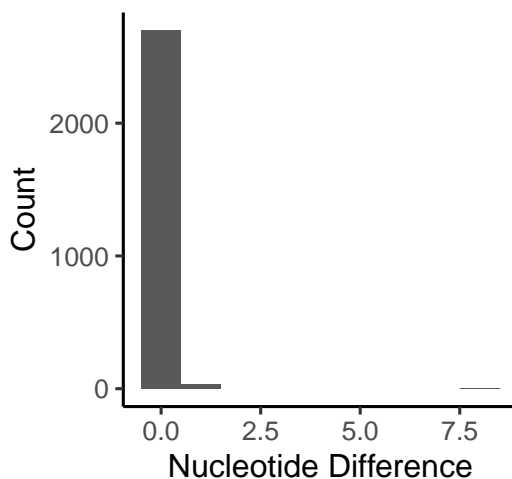
TRBV23–1*ap01_T304C

822 sequences assigned
804 (97.8%) exact matches, in which:
779 unique CDR3
13 unique J



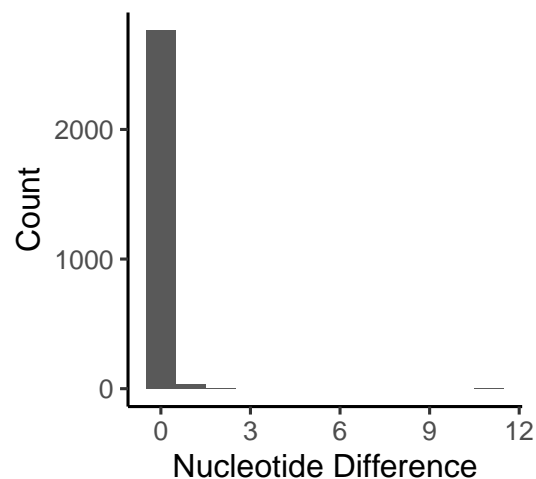
TRBV4–1*ap01

2731 sequences assigned
2699 (98.8%) exact matches, in which:
2651 unique CDR3
13 unique J



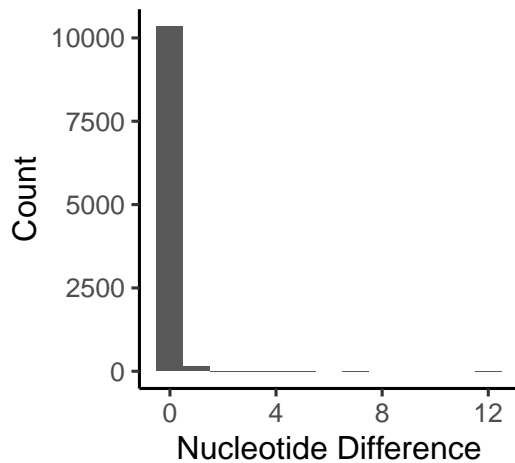
TRBV25–1*ap01

2805 sequences assigned
2764 (98.5%) exact matches, in which:
2704 unique CDR3
13 unique J



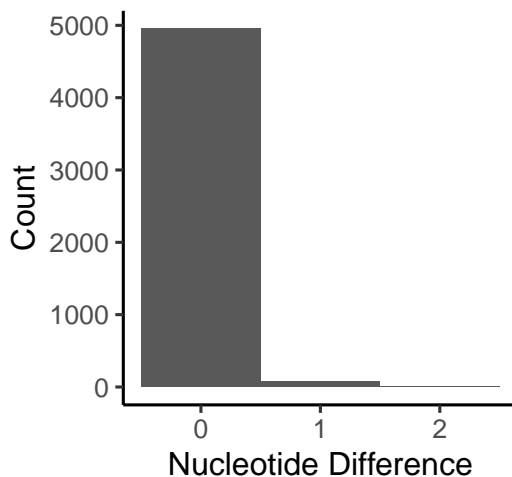
TRBV3–12*ap01

10504 sequences assigned
10343 (98.5%) exact matches, in which:
10114 unique CDR3
13 unique J



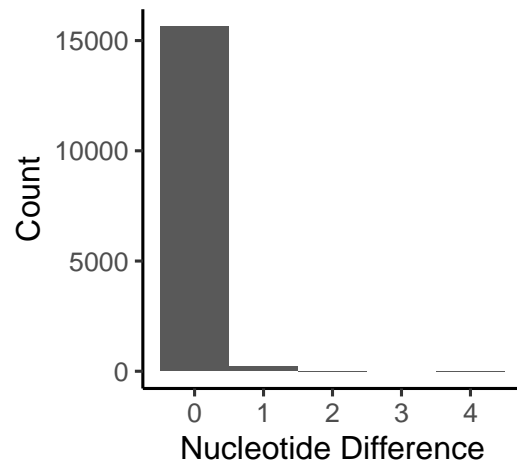
TRBV4–2*ap01

5030 sequences assigned
4953 (98.5%) exact matches, in which:
4855 unique CDR3
13 unique J



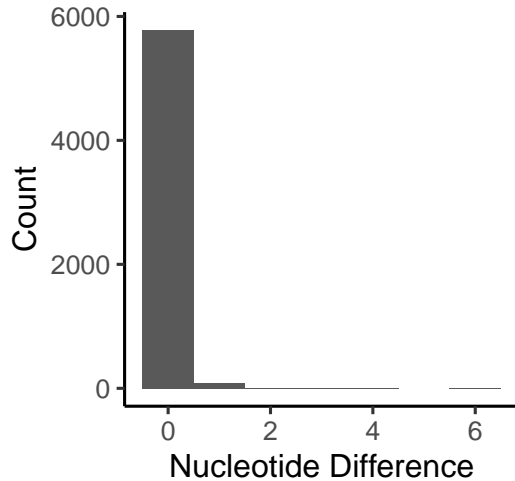
TRBV5–1*ap01

15855 sequences assigned
15640 (98.6%) exact matches, in which:
15225 unique CDR3
14 unique J



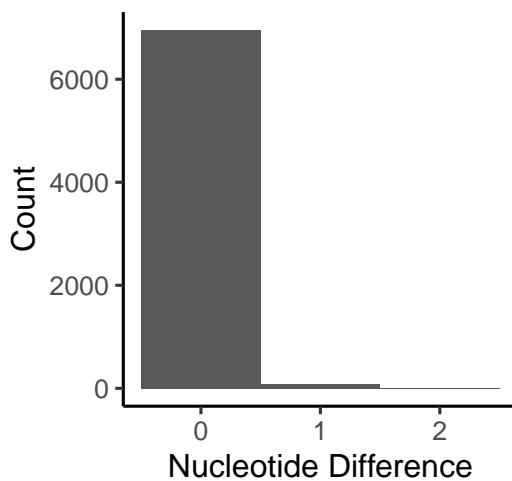
TRBV24–1*ap01

5878 sequences assigned
5780 (98.3%) exact matches, in which:
5695 unique CDR3
13 unique J



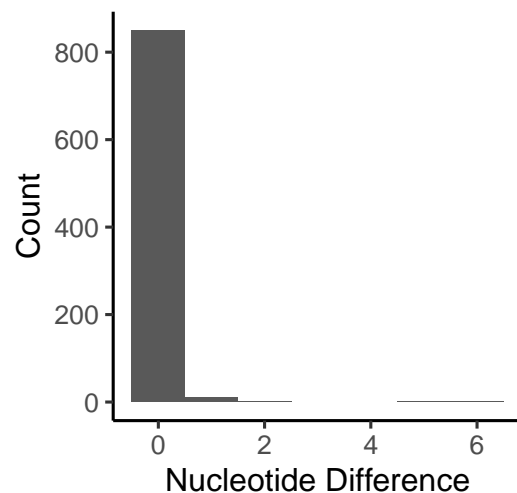
TRBV4–3*ap01

7036 sequences assigned
6955 (98.8%) exact matches, in which:
6799 unique CDR3
13 unique J



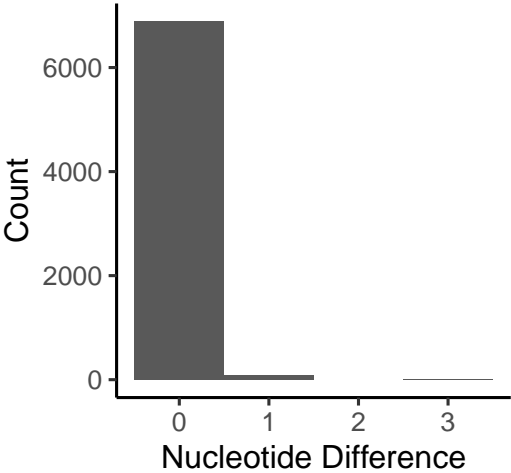
TRBV5–3*ap01

863 sequences assigned
850 (98.5%) exact matches, in which:
827 unique CDR3
13 unique J



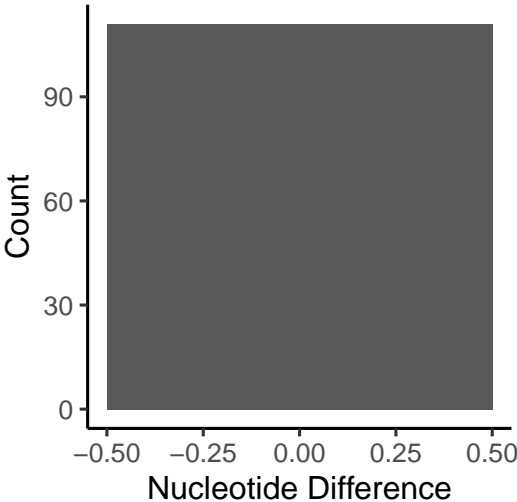
TRBV5-4*ap01

6975 sequences assigned
6887 (98.7%) exact matches, in which:
6731 unique CDR3
13 unique J



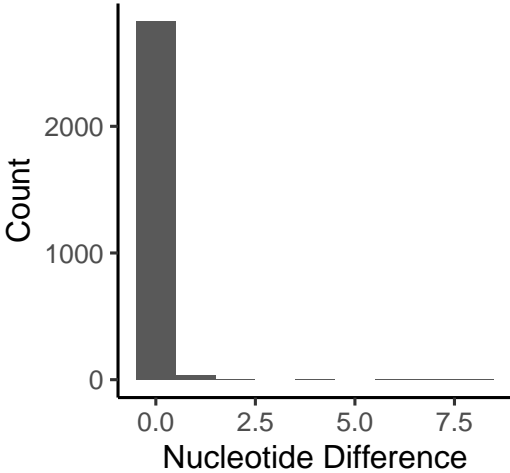
TRBV5-7*ap01

111 sequences assigned
111 (100%) exact matches, in which:
110 unique CDR3
13 unique J



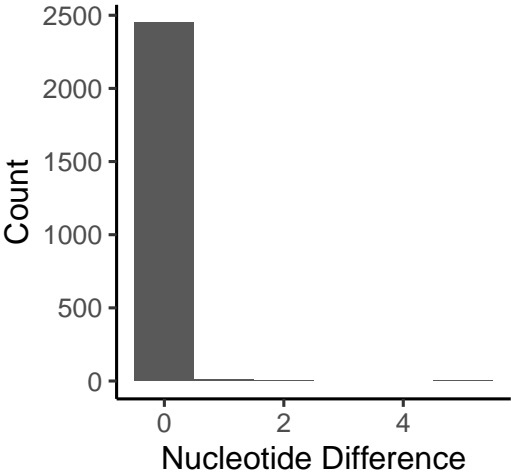
TRBV6-4*ap01

2868 sequences assigned
2828 (98.6%) exact matches, in which:
2775 unique CDR3
13 unique J



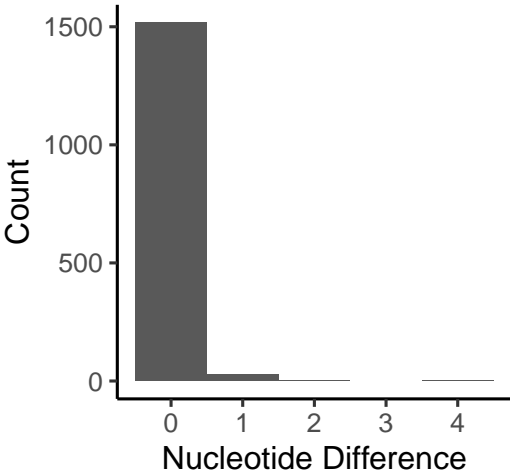
TRBV5-5*ap01

2464 sequences assigned
2449 (99.4%) exact matches, in which:
2414 unique CDR3
13 unique J



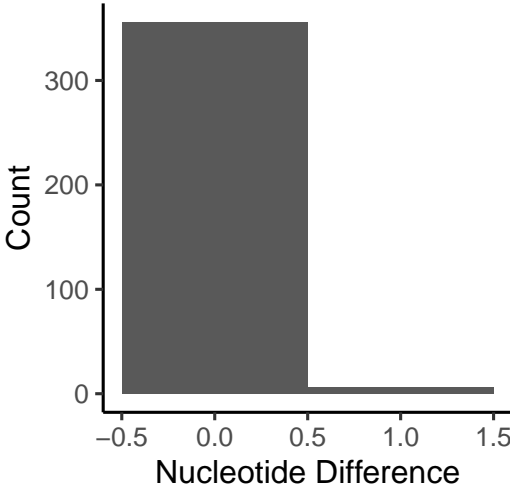
TRBV5-8*ap01

1550 sequences assigned
1517 (97.9%) exact matches, in which:
1491 unique CDR3
13 unique J



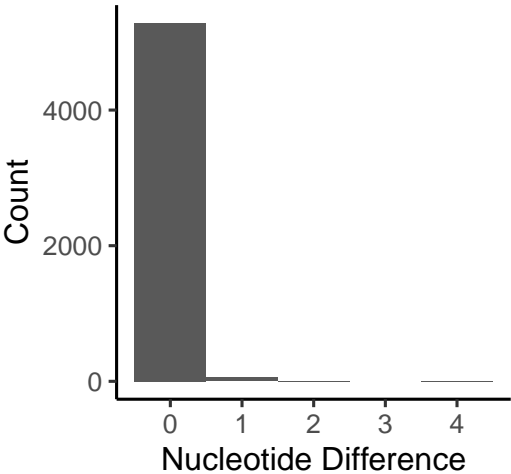
TRBV6-7*ap01

362 sequences assigned
356 (98.3%) exact matches, in which:
344 unique CDR3
13 unique J



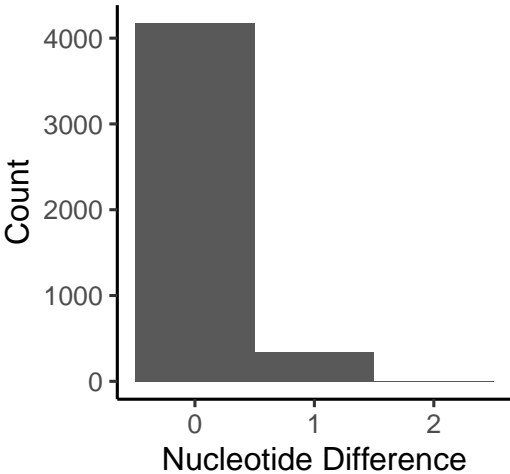
TRBV5-6*ap01

5346 sequences assigned
5283 (98.8%) exact matches, in which:
5157 unique CDR3
13 unique J



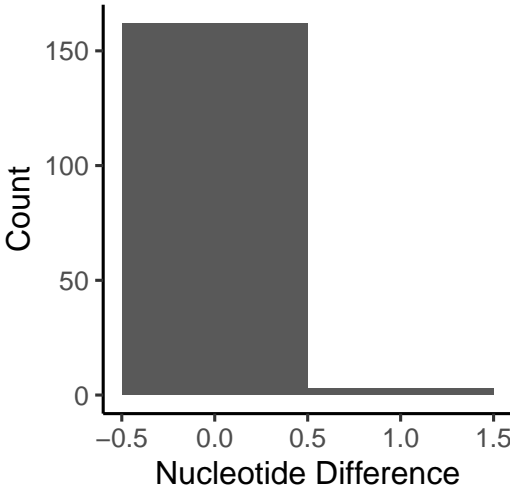
TRBV6-1*ap01

4517 sequences assigned
4176 (92.5%) exact matches, in which:
4065 unique CDR3
13 unique J



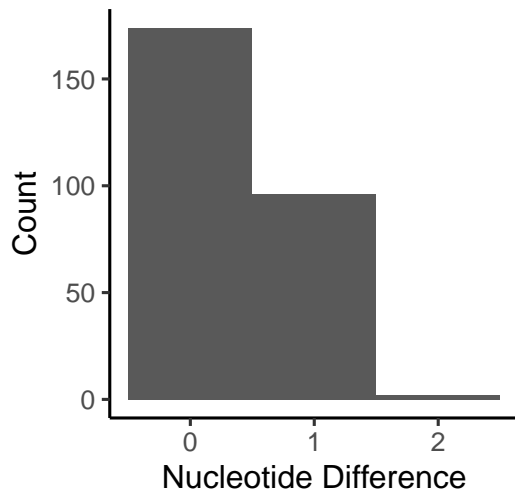
TRBV6-8*ap01

165 sequences assigned
162 (98.2%) exact matches, in which:
157 unique CDR3
13 unique J



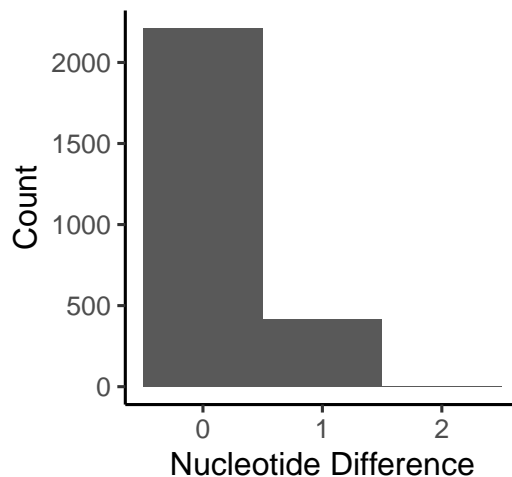
TRBV6–9*ap01

272 sequences assigned
174 (64%) exact matches, in which:
168 unique CDR3
13 unique J



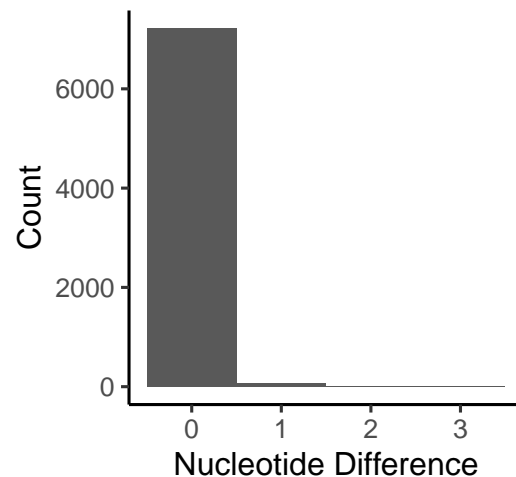
TRBV6–56*ap02

2630 sequences assigned
2210 (84%) exact matches, in which:
2154 unique CDR3
13 unique J



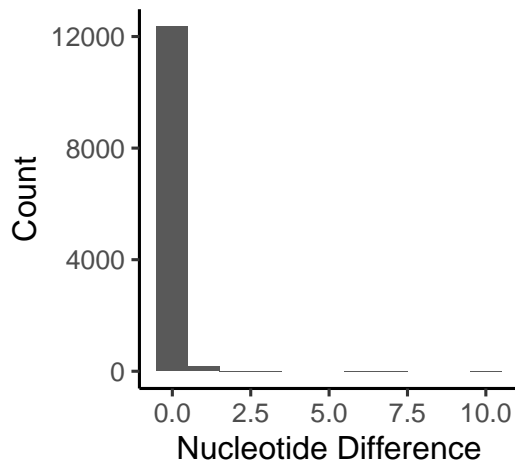
TRBV7–3*ap01

7290 sequences assigned
7217 (99%) exact matches, in which:
7103 unique CDR3
13 unique J



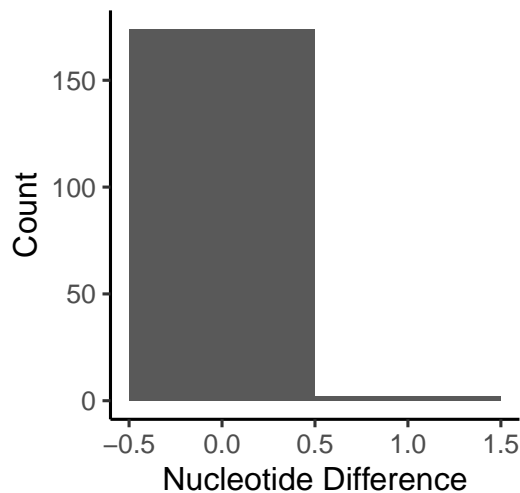
TRBV6–23*ap01

12546 sequences assigned
12361 (98.5%) exact matches, in which:
12039 unique CDR3
14 unique J



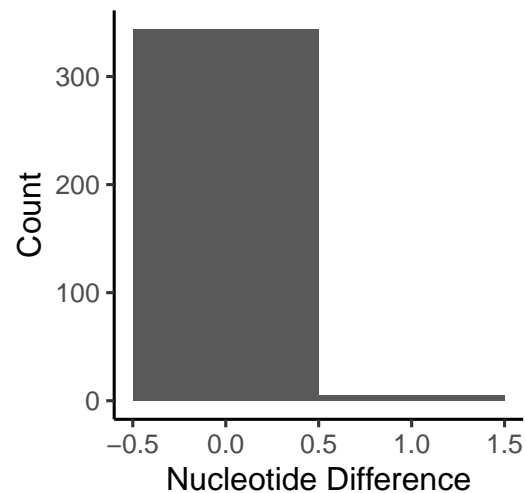
TRBV7–1*ap01_G291C_

176 sequences assigned
174 (98.9%) exact matches, in which:
169 unique CDR3
13 unique J



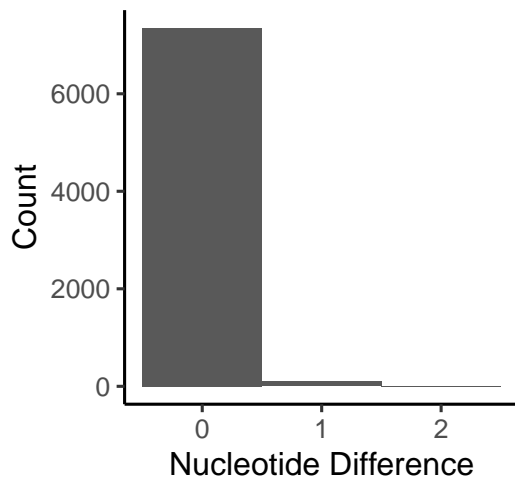
TRBV7–4*ap01

349 sequences assigned
344 (98.6%) exact matches, in which:
336 unique CDR3
13 unique J



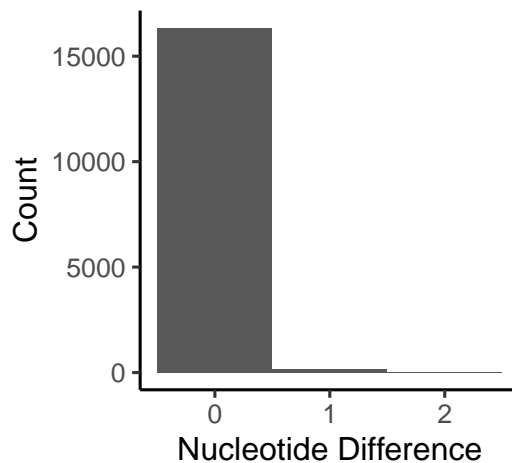
TRBV6–56*ap01

7448 sequences assigned
7348 (98.7%) exact matches, in which:
7168 unique CDR3
13 unique J



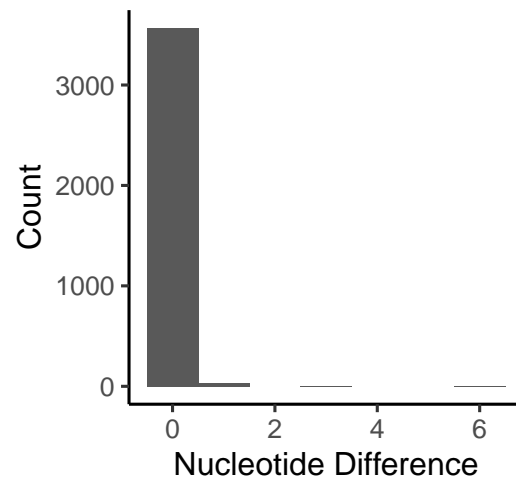
TRBV7–2*ap01

16517 sequences assigned
16345 (99%) exact matches, in which:
16008 unique CDR3
13 unique J



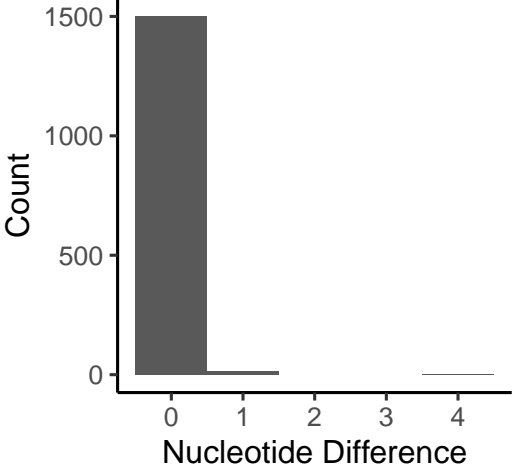
TRBV7–6*ap01

3605 sequences assigned
3567 (98.9%) exact matches, in which:
3483 unique CDR3
13 unique J



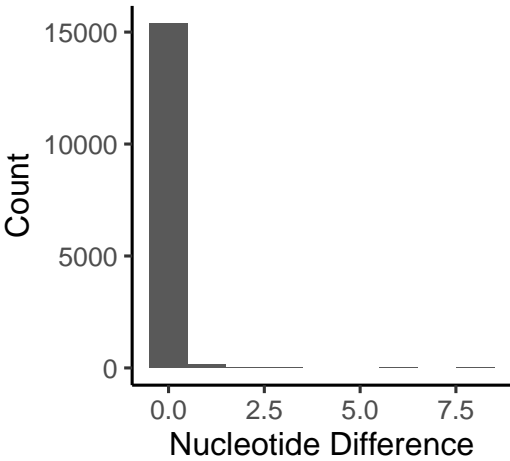
TRBV7-7*ap01_C315T

1515 sequences assigned
1500 (99%) exact matches, in which:
1473 unique CDR3
13 unique J



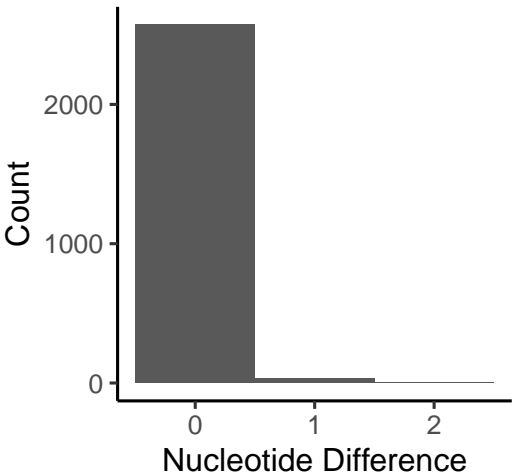
TRBV7-9*ap01

15547 sequences assigned
15399 (99%) exact matches, in which:
15183 unique CDR3
13 unique J



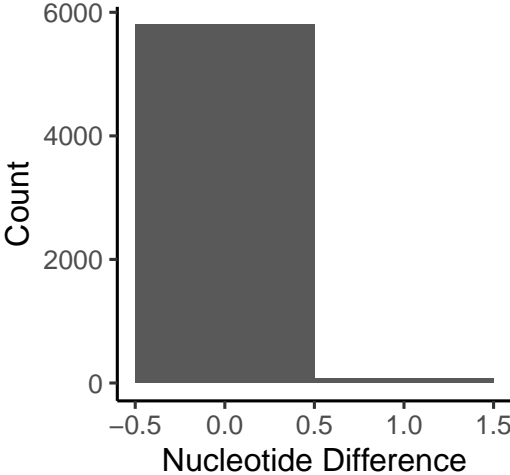
TRBV7-8*ap01

2604 sequences assigned
2572 (98.8%) exact matches, in which:
2502 unique CDR3
13 unique J



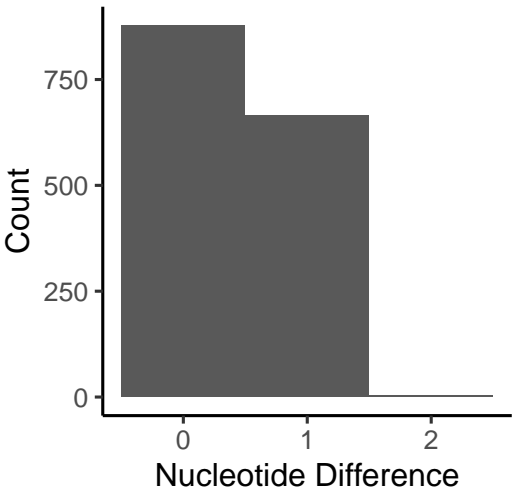
TRBV29-1*ap01

5869 sequences assigned
5799 (98.8%) exact matches, in which:
5673 unique CDR3
13 unique J



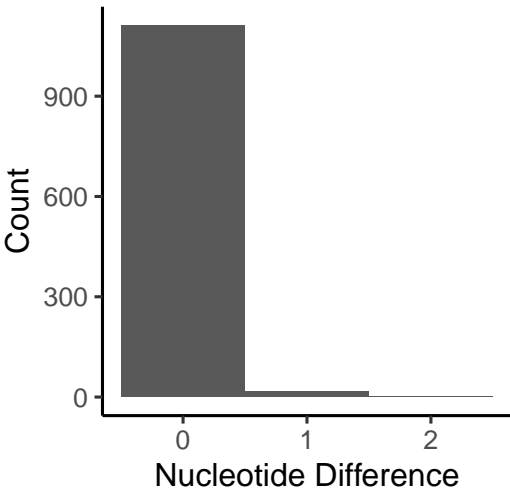
TRBV7-8*ap03

1545 sequences assigned
878 (56.8%) exact matches, in which:
854 unique CDR3
13 unique J

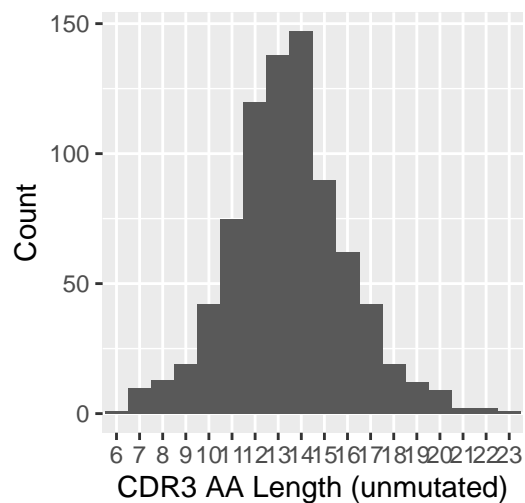


TRBV29-1*ap02

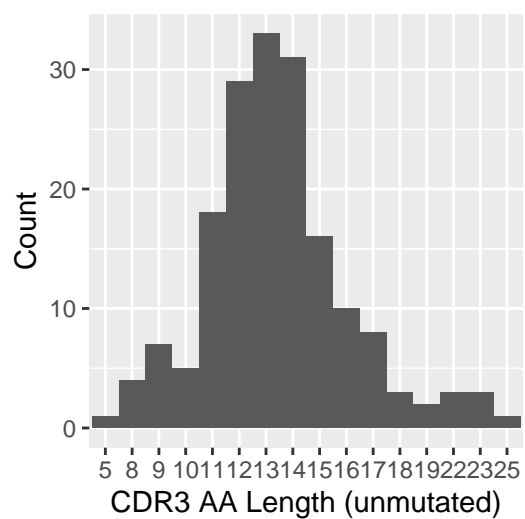
1130 sequences assigned
1112 (98.4%) exact matches, in which:
1087 unique CDR3
13 unique J



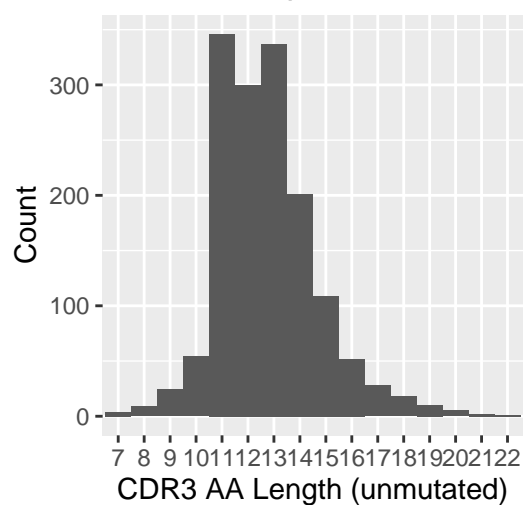
TRBV23-1*ap01_T304C



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]