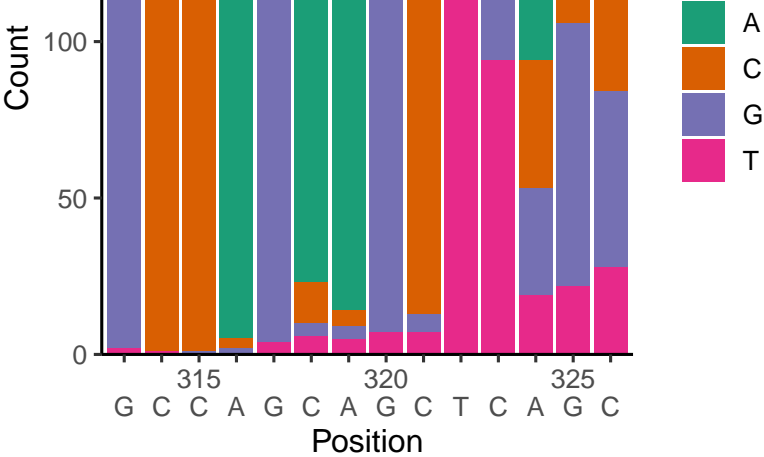
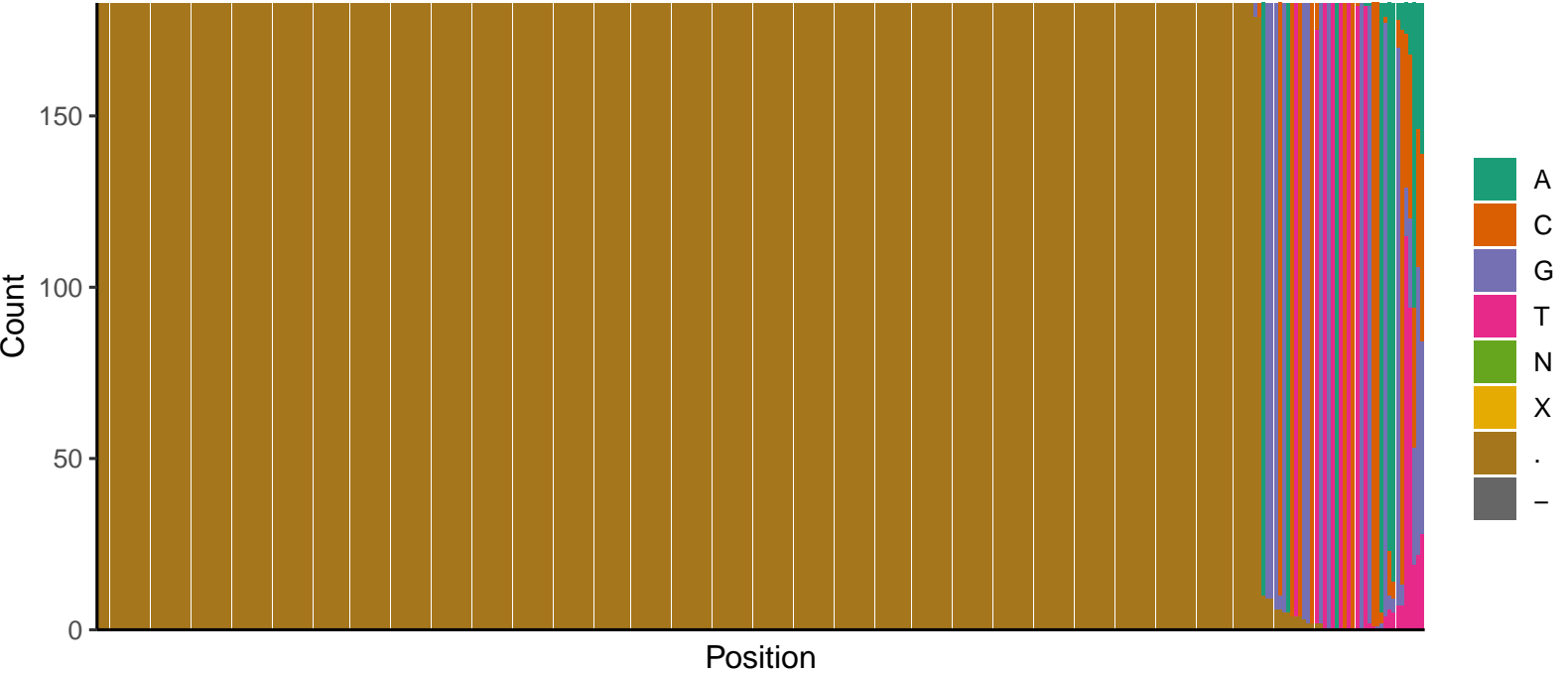


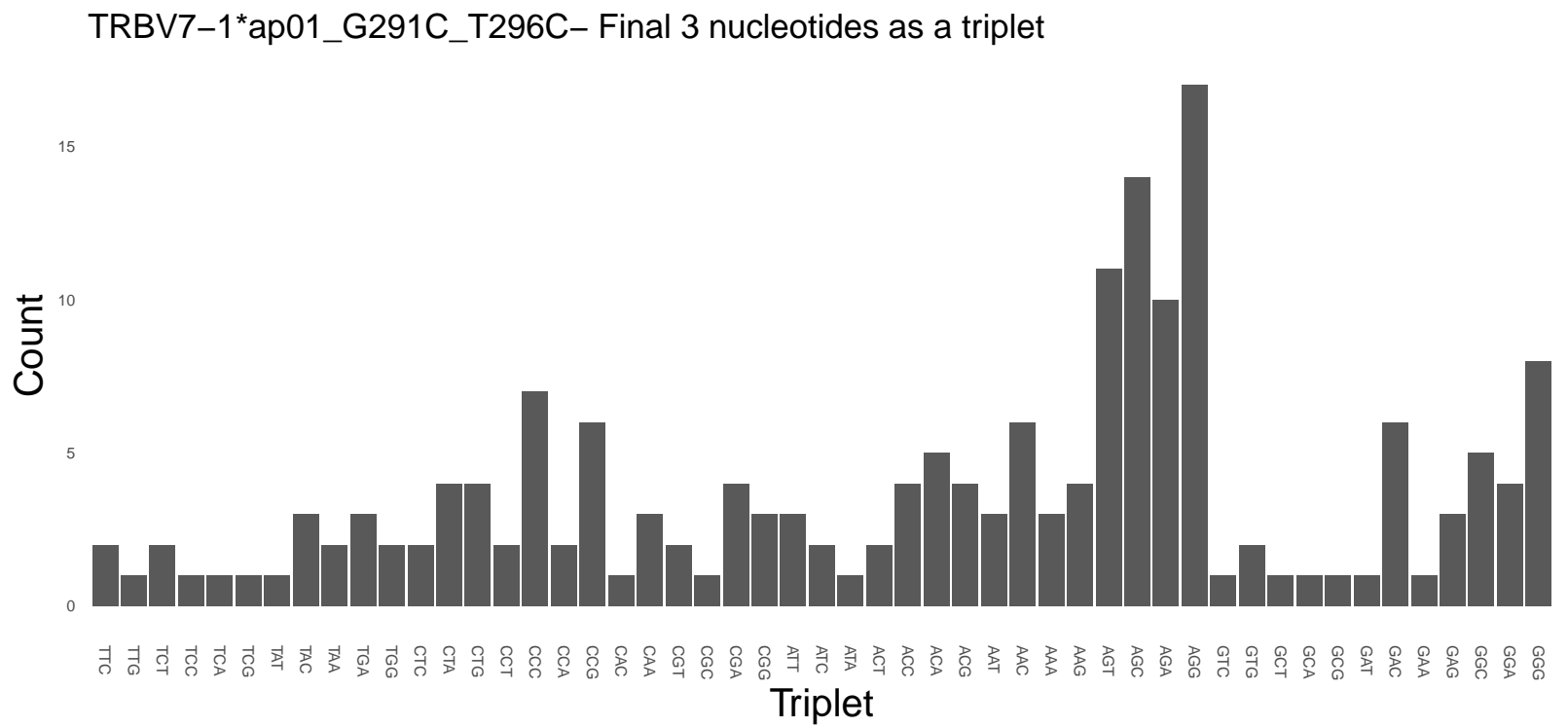
Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-1*ap01_G291C_T296C

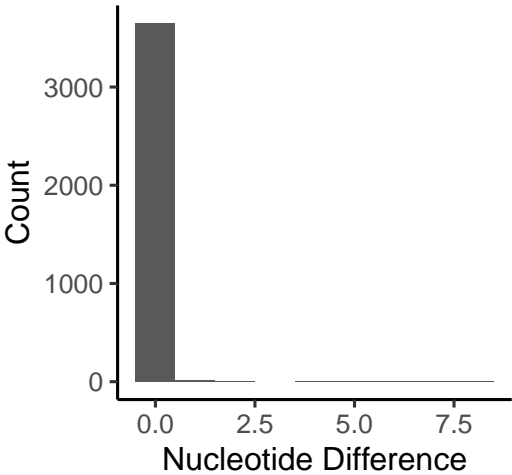


TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



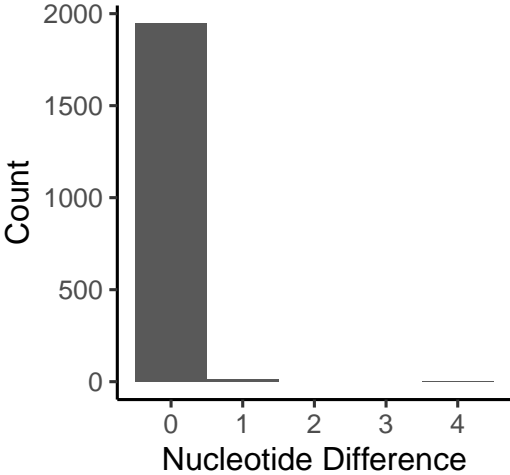
TRBV10-1*ap01

3676 sequences assigned
3648 (99.2%) exact matches, in which:
3573 unique CDR3
13 unique J



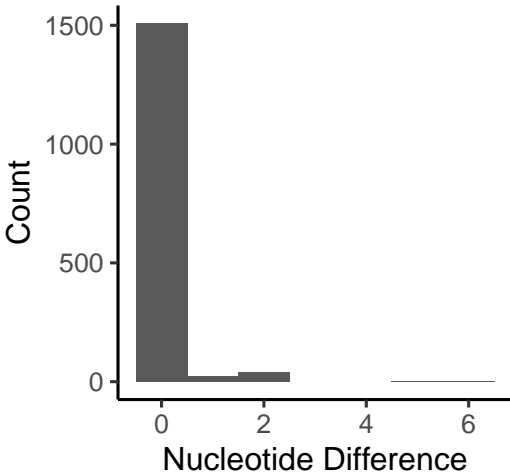
TRBV10-2*ap01

1962 sequences assigned
1947 (99.2%) exact matches, in which:
1911 unique CDR3
13 unique J



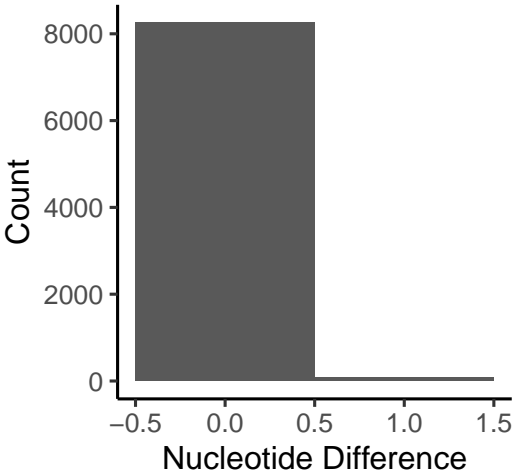
TRBV13*ap01

1572 sequences assigned
1508 (95.9%) exact matches, in which:
1469 unique CDR3
13 unique J



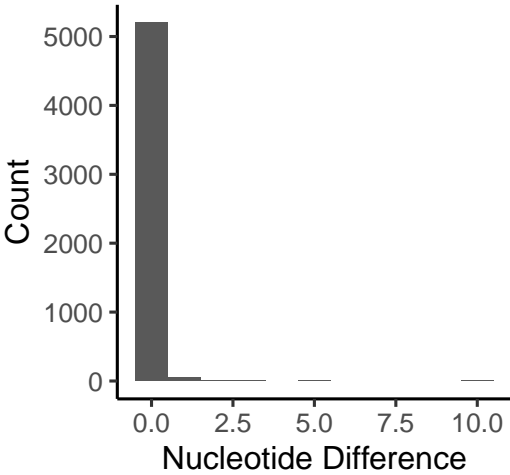
TRBV20-1*ap01

8340 sequences assigned
8255 (99%) exact matches, in which:
8132 unique CDR3
13 unique J



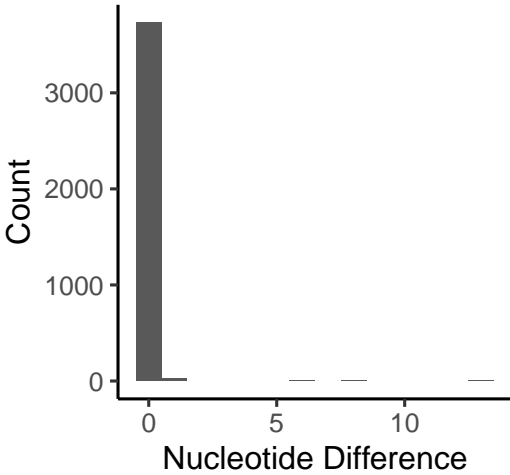
TRBV10-3*ap01

5254 sequences assigned
5200 (99%) exact matches, in which:
5096 unique CDR3
13 unique J



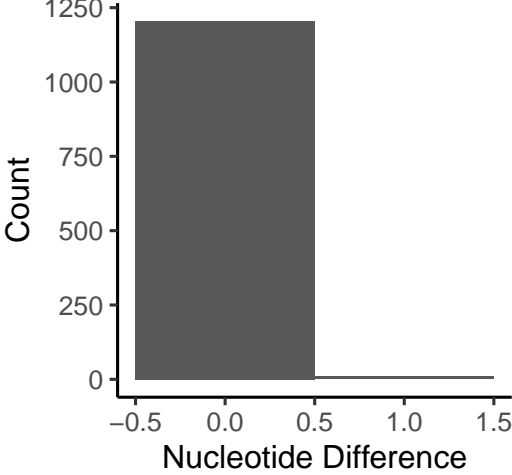
TRBV14*ap01

3757 sequences assigned
3730 (99.3%) exact matches, in which:
3672 unique CDR3
13 unique J



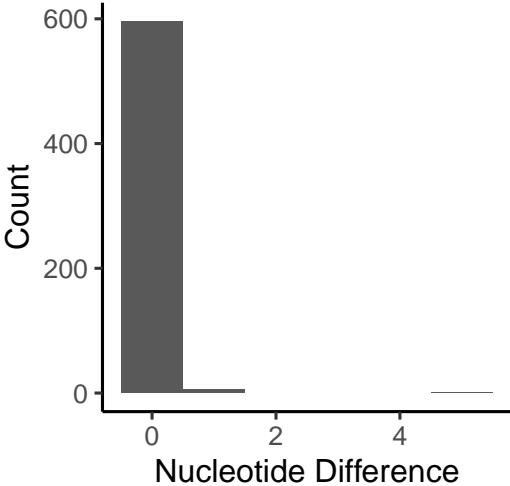
TRBV20-1*ap02

1214 sequences assigned
1205 (99.3%) exact matches, in which:
1191 unique CDR3
13 unique J



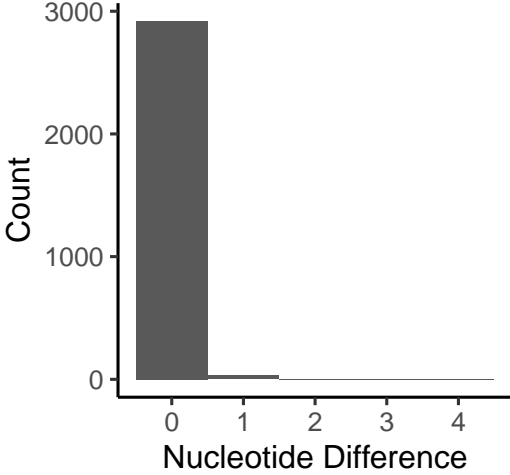
TRBV1*ap01

602 sequences assigned
596 (99%) exact matches, in which:
581 unique CDR3
13 unique J



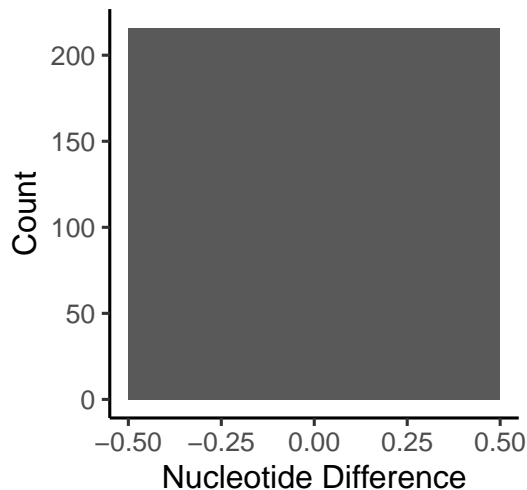
TRBV15*ap02

2955 sequences assigned
2920 (98.8%) exact matches, in which:
2876 unique CDR3
13 unique J



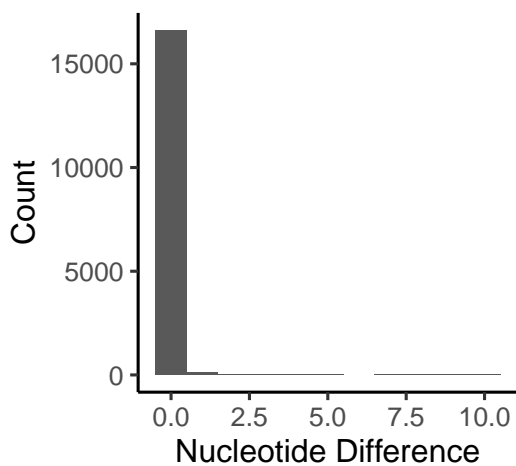
TRBV16*ap01

216 sequences assigned
216 (100%) exact matches, in which:
216 unique CDR3
13 unique J



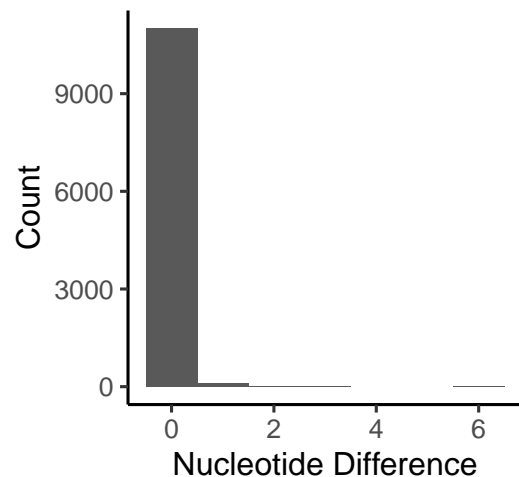
TRBV19*ap01

16779 sequences assigned
16623 (99.1%) exact matches, in which:
16455 unique CDR3
13 unique J



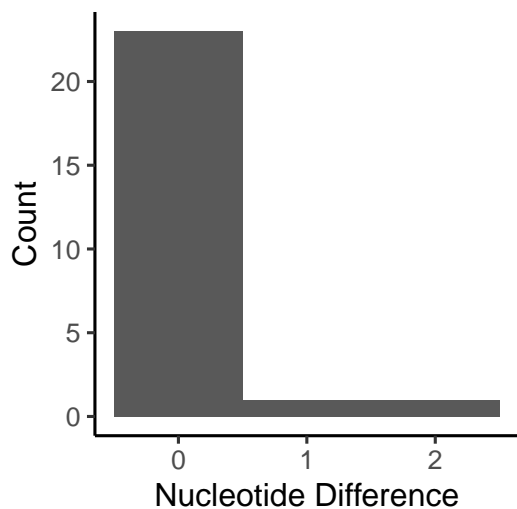
TRBV28*ap01

11106 sequences assigned
11004 (99.1%) exact matches, in which:
10842 unique CDR3
13 unique J



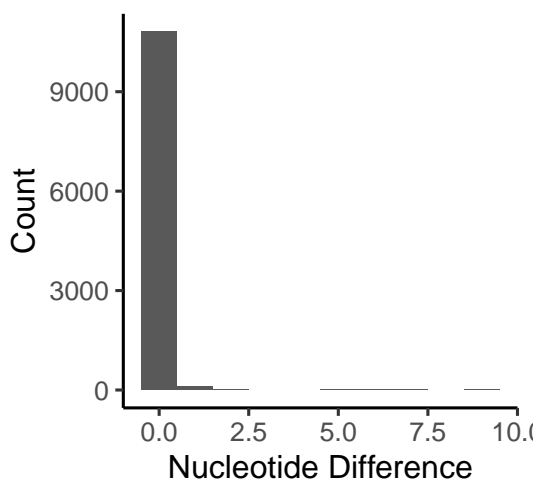
TRBV17*ap01

25 sequences assigned
23 (92%) exact matches, in which:
23 unique CDR3
10 unique J



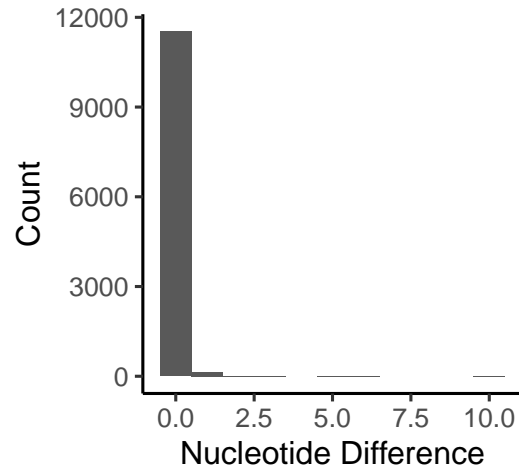
TRBV2*ap01

10916 sequences assigned
10810 (99%) exact matches, in which:
10627 unique CDR3
13 unique J



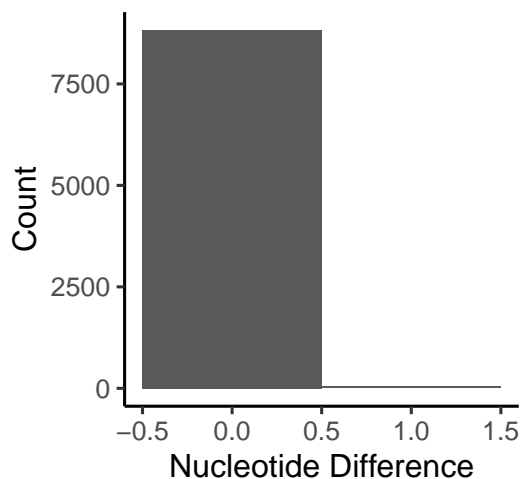
TRBV30*ap01

11677 sequences assigned
11527 (98.7%) exact matches, in which:
11274 unique CDR3
13 unique J



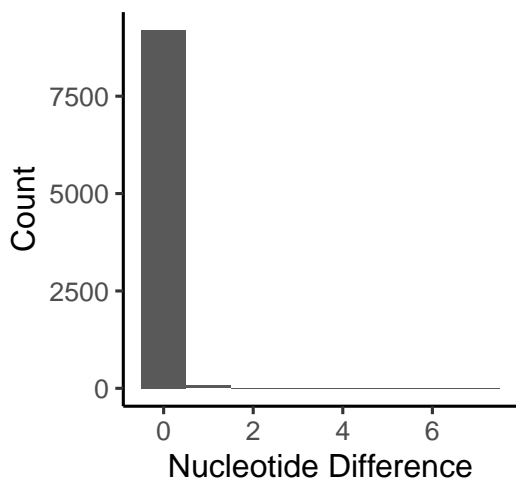
TRBV18*ap01

8876 sequences assigned
8827 (99.4%) exact matches, in which:
8724 unique CDR3
13 unique J



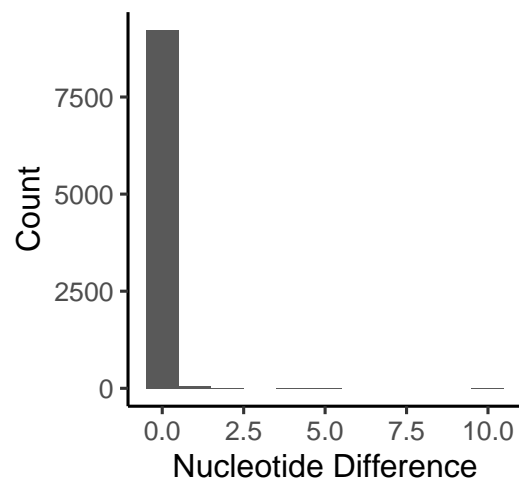
TRBV27*ap01

9285 sequences assigned
9199 (99.1%) exact matches, in which:
8991 unique CDR3
13 unique J



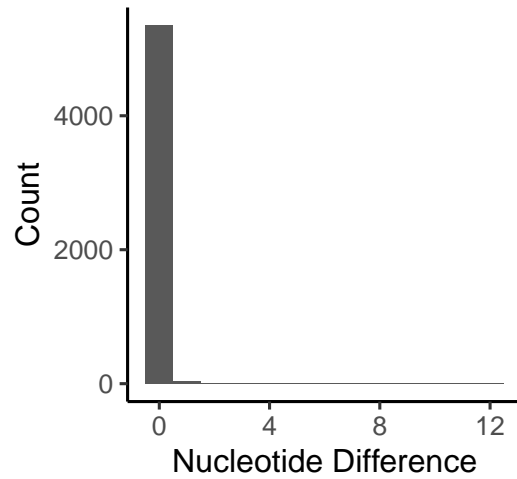
TRBV9*ap01

9285 sequences assigned
9224 (99.3%) exact matches, in which:
9090 unique CDR3
13 unique J



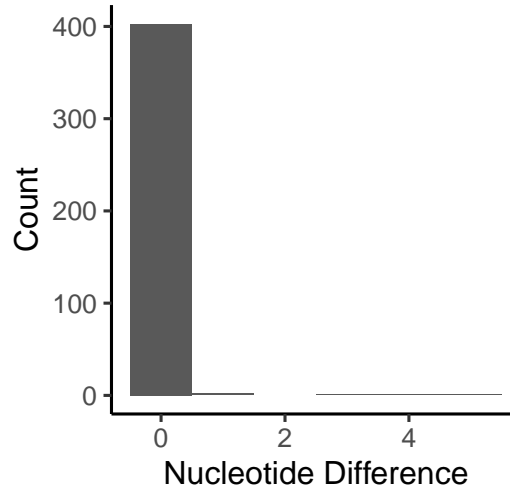
TRBV21-1*ap01

5414 sequences assigned
5349 (98.8%) exact matches, in which:
5277 unique CDR3
13 unique J



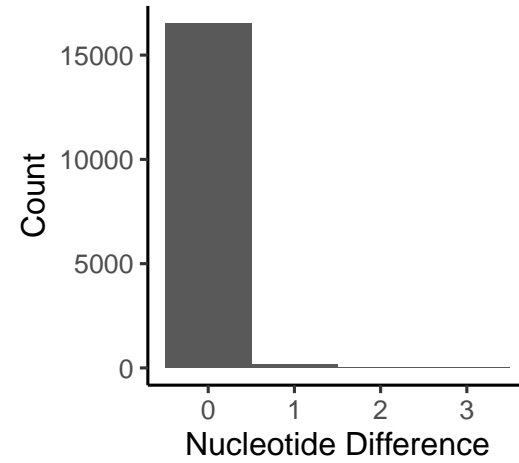
TRBV12-1*ap01

408 sequences assigned
403 (98.8%) exact matches, in which:
397 unique CDR3
13 unique J



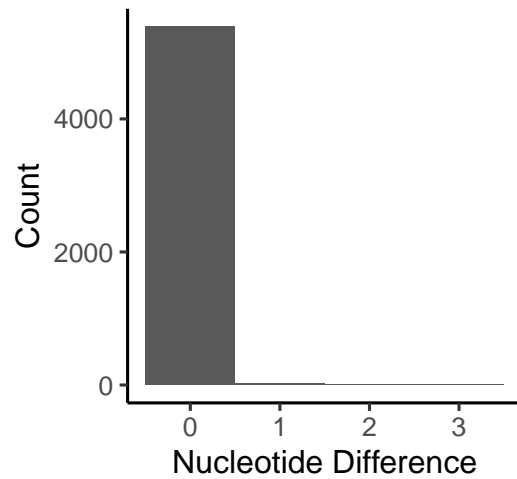
TRBV12-34*ap01

16700 sequences assigned
16532 (99%) exact matches, in which:
16243 unique CDR3
13 unique J



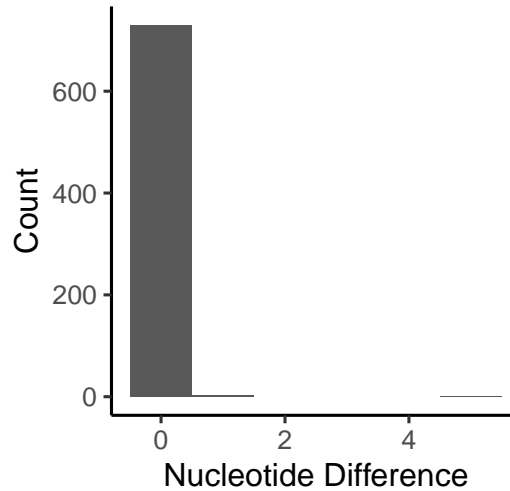
TRBV11-2*ap01

5410 sequences assigned
5386 (99.6%) exact matches, in which:
5349 unique CDR3
13 unique J



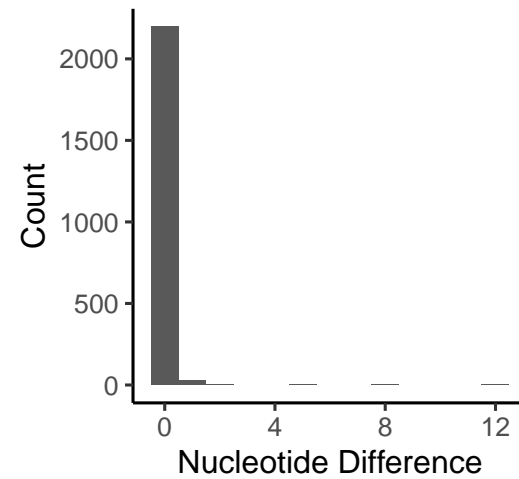
TRBV12-2*ap01

733 sequences assigned
730 (99.6%) exact matches, in which:
716 unique CDR3
13 unique J



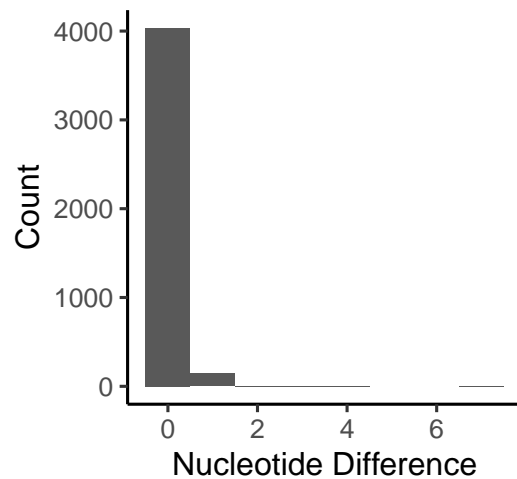
TRBV23-1*ap01

2226 sequences assigned
2197 (98.7%) exact matches, in which:
2169 unique CDR3
13 unique J



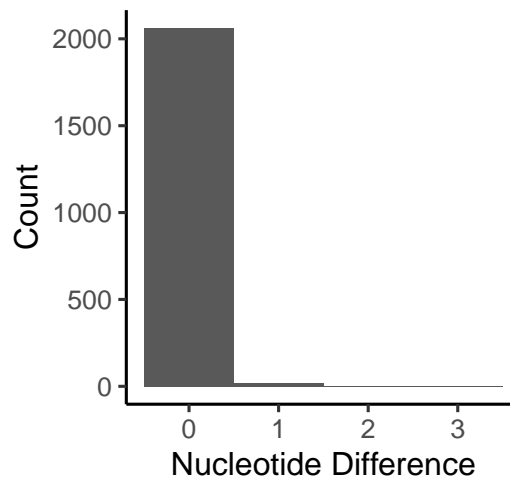
TRBV11-3*ap01

4186 sequences assigned
4034 (96.4%) exact matches, in which:
4003 unique CDR3
13 unique J



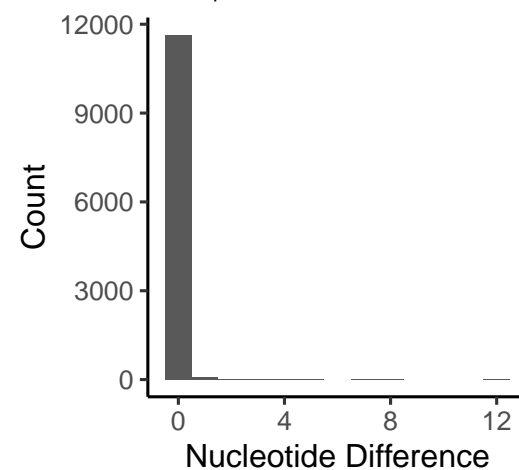
TRBV12-5*ap01

2085 sequences assigned
2062 (98.9%) exact matches, in which:
2029 unique CDR3
13 unique J



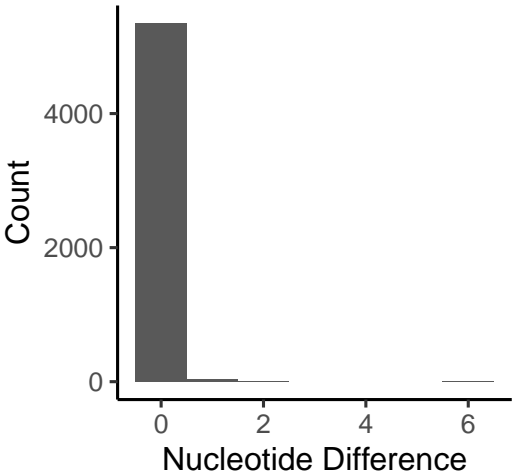
TRBV3-12*ap01

11754 sequences assigned
11644 (99.1%) exact matches, in which:
11508 unique CDR3
13 unique J



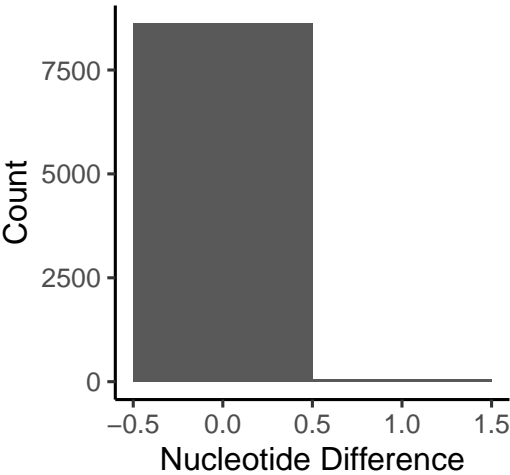
TRBV4-1*ap01

5387 sequences assigned
5345 (99.2%) exact matches, in which:
5231 unique CDR3
13 unique J



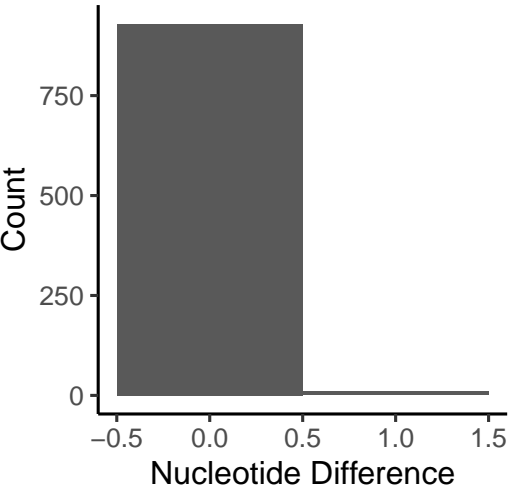
TRBV4-3*ap01

8691 sequences assigned
8621 (99.2%) exact matches, in which:
8420 unique CDR3
13 unique J



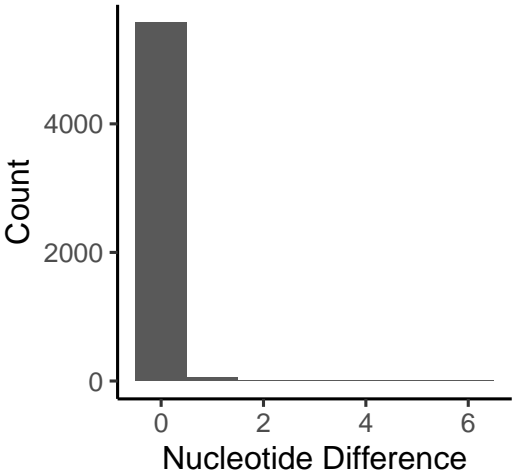
TRBV5-3*ap01

940 sequences assigned
930 (98.9%) exact matches, in which:
914 unique CDR3
13 unique J



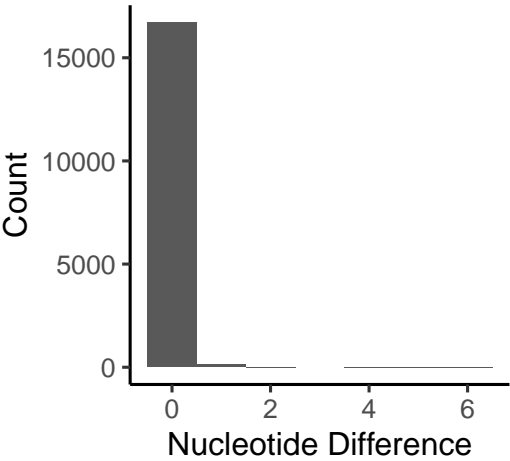
TRBV24-1*ap01

5642 sequences assigned
5573 (98.8%) exact matches, in which:
5460 unique CDR3
13 unique J



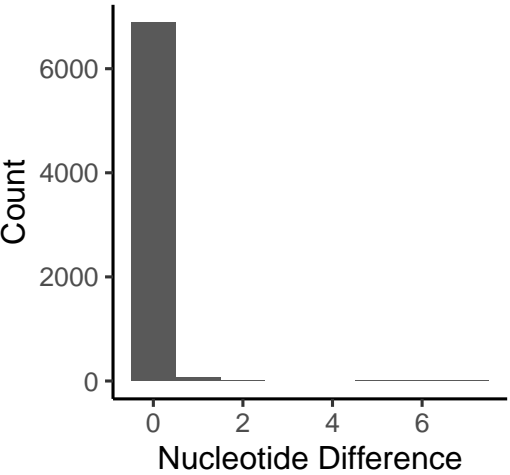
TRBV5-1*ap01

16857 sequences assigned
16710 (99.1%) exact matches, in which:
16342 unique CDR3
13 unique J



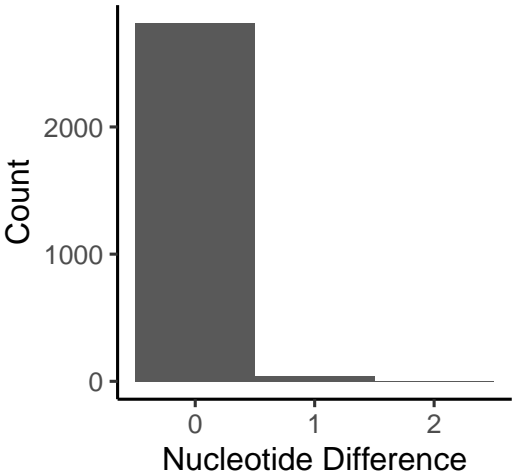
TRBV5-4*ap01

6964 sequences assigned
6883 (98.8%) exact matches, in which:
6733 unique CDR3
13 unique J



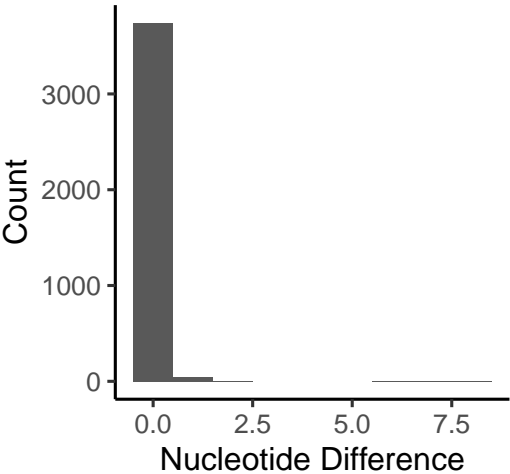
TRBV4-2*ap01

2862 sequences assigned
2817 (98.4%) exact matches, in which:
2747 unique CDR3
13 unique J



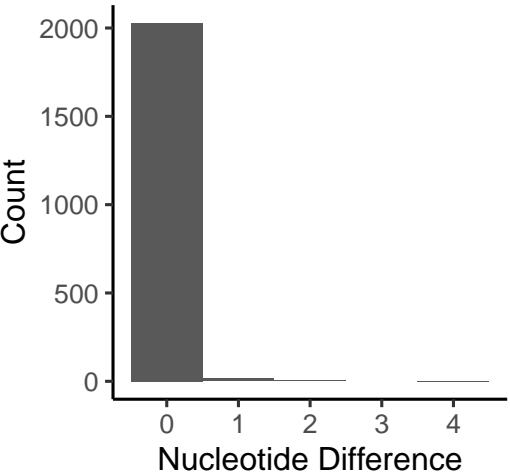
TRBV25-1*ap01

3786 sequences assigned
3740 (98.8%) exact matches, in which:
3635 unique CDR3
13 unique J



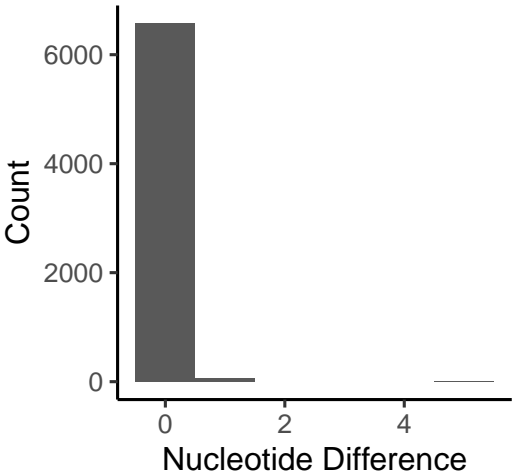
TRBV5-5*ap01

2049 sequences assigned
2028 (99%) exact matches, in which:
2012 unique CDR3
13 unique J



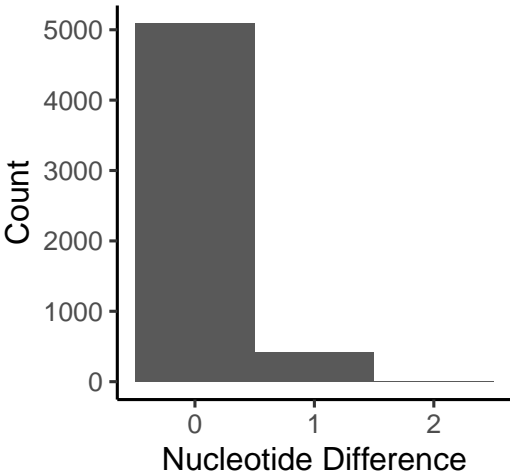
TRBV5-6*ap01

6632 sequences assigned
6574 (99.1%) exact matches, in which:
6381 unique CDR3
13 unique J



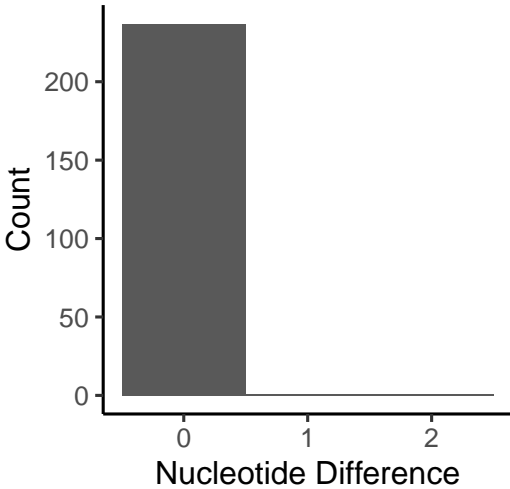
TRBV6-1*ap01

5505 sequences assigned
5090 (92.5%) exact matches, in which:
4976 unique CDR3
13 unique J



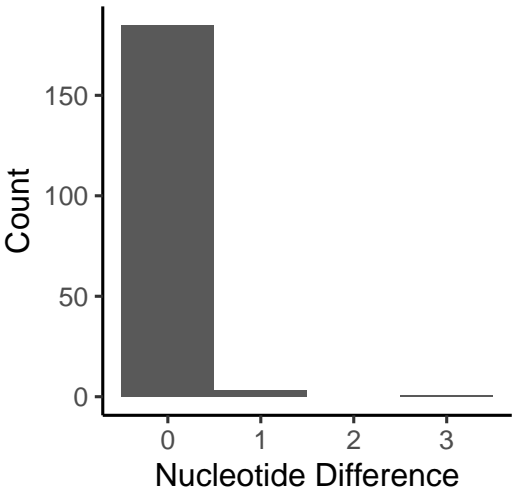
TRBV6-8*ap01

239 sequences assigned
237 (99.2%) exact matches, in which:
224 unique CDR3
13 unique J



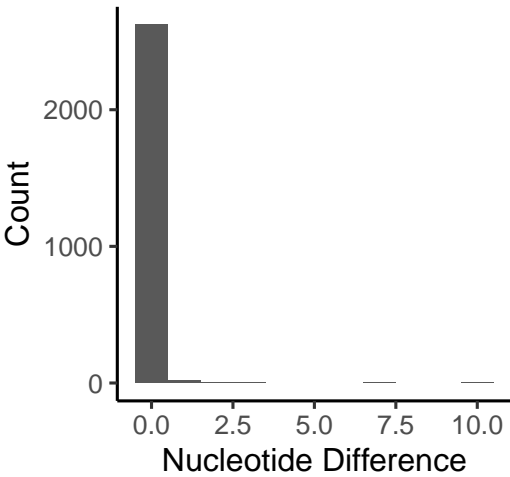
TRBV5-7*ap01

189 sequences assigned
185 (97.9%) exact matches, in which:
180 unique CDR3
13 unique J



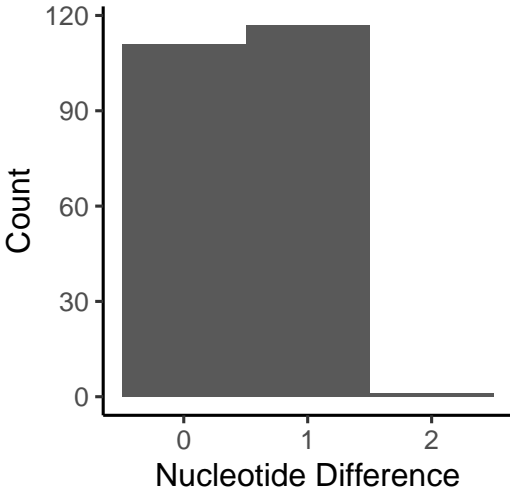
TRBV6-4*ap01

2645 sequences assigned
2622 (99.1%) exact matches, in which:
2558 unique CDR3
13 unique J



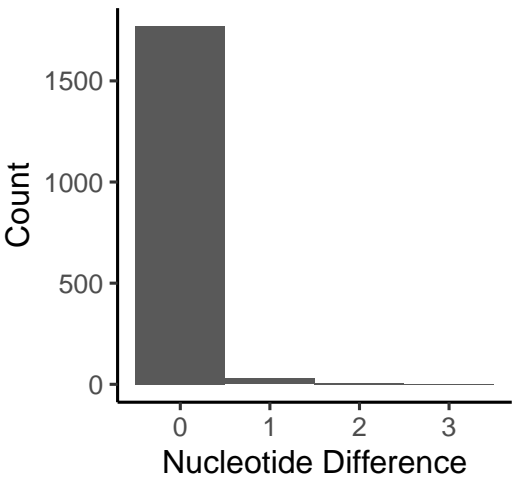
TRBV6-9*ap01

229 sequences assigned
111 (48.5%) exact matches, in which:
110 unique CDR3
13 unique J



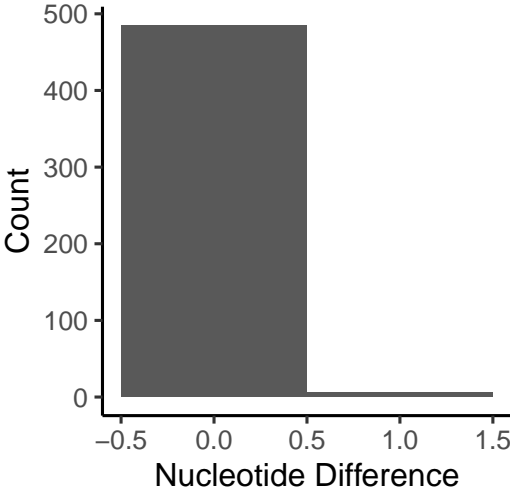
TRBV5-8*ap01

1807 sequences assigned
1771 (98%) exact matches, in which:
1747 unique CDR3
13 unique J



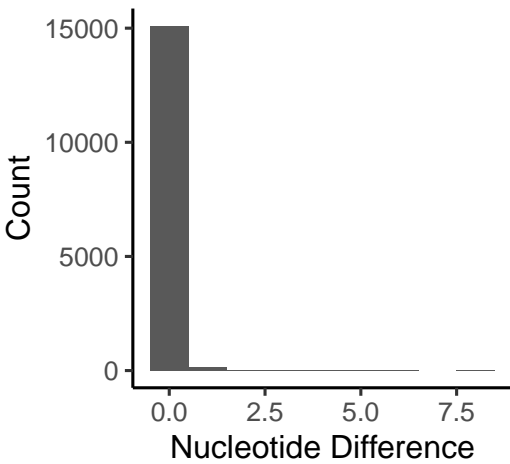
TRBV6-7*ap01

491 sequences assigned
485 (98.8%) exact matches, in which:
473 unique CDR3
13 unique J



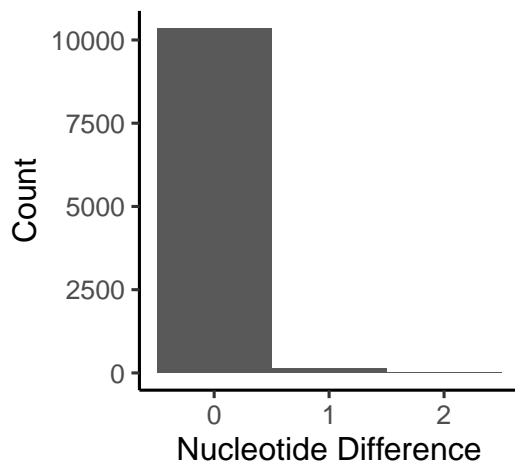
TRBV6-23*ap01

15276 sequences assigned
15104 (98.9%) exact matches, in which:
14683 unique CDR3
13 unique J



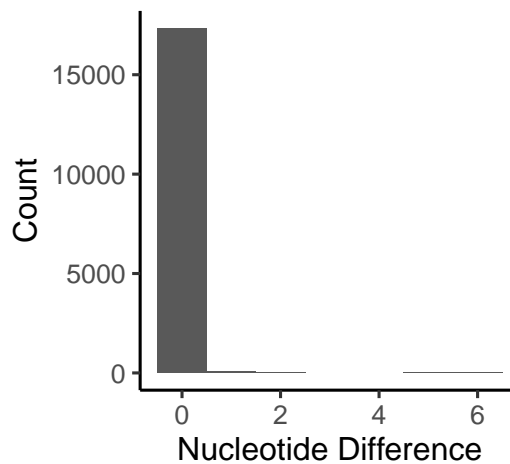
TRBV6-56*ap01

10479 sequences assigned
10355 (98.8%) exact matches, in which:
10091 unique CDR3
13 unique J



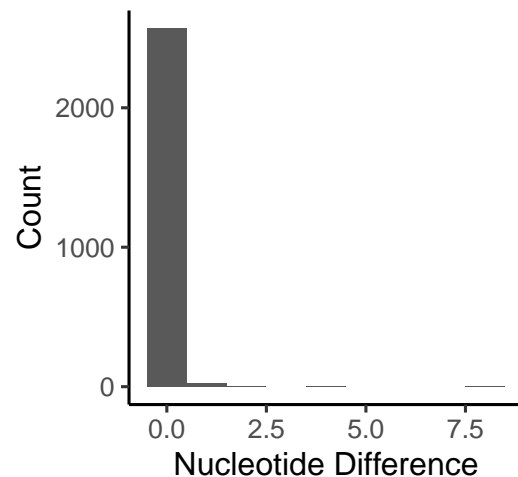
TRBV7-2*ap01

17444 sequences assigned
17342 (99.4%) exact matches, in which:
17110 unique CDR3
14 unique J



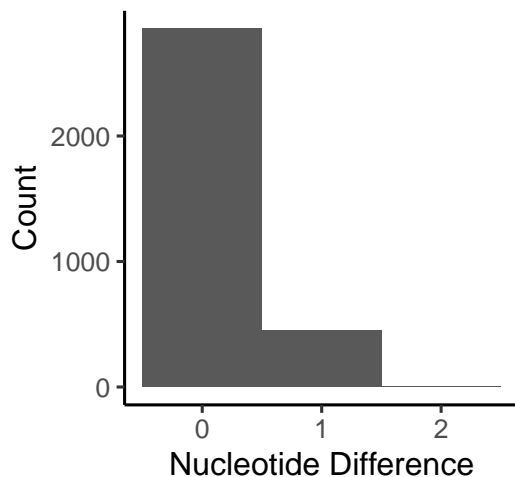
TRBV7-6*ap01

2596 sequences assigned
2569 (99%) exact matches, in which:
2530 unique CDR3
13 unique J



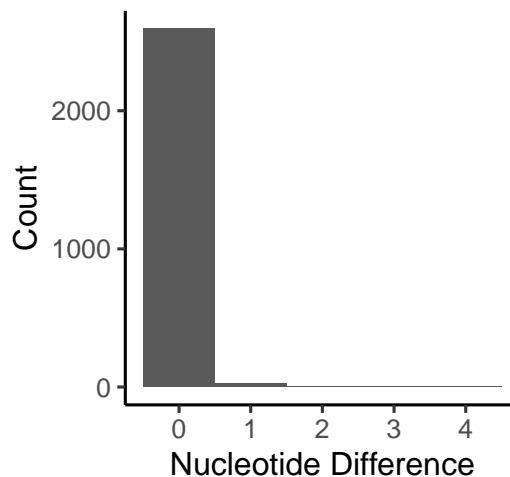
TRBV6-56*ap02

3307 sequences assigned
2855 (86.3%) exact matches, in which:
2786 unique CDR3
13 unique J



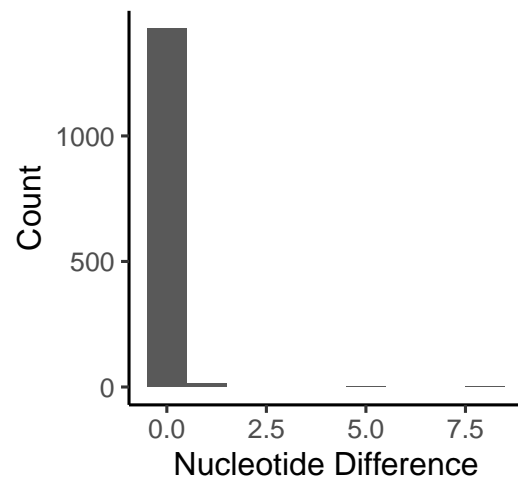
TRBV7-3*ap02

2624 sequences assigned
2594 (98.9%) exact matches, in which:
2555 unique CDR3
13 unique J



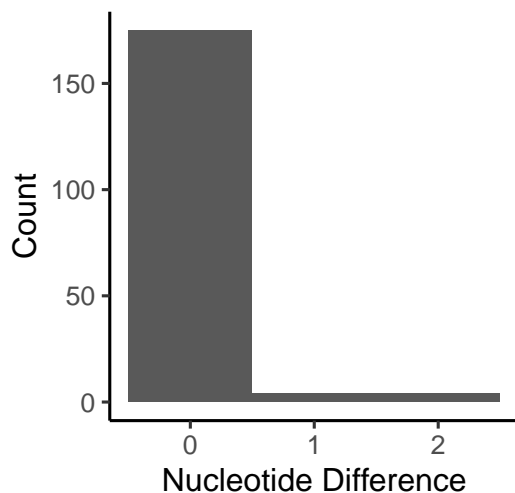
TRBV7-7*ap01

1442 sequences assigned
1427 (99%) exact matches, in which:
1406 unique CDR3
13 unique J



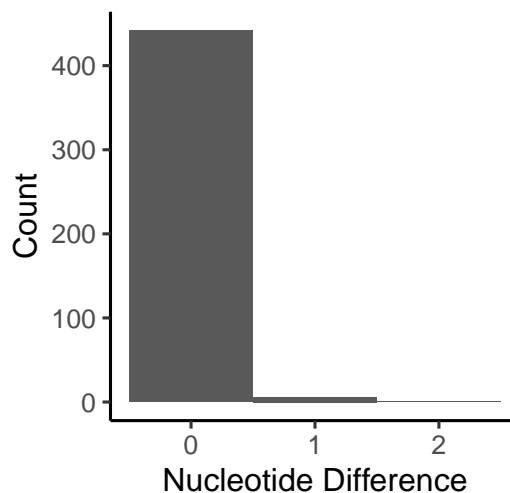
TRBV7-1*ap01_G291C_

183 sequences assigned
175 (95.6%) exact matches, in which:
174 unique CDR3
13 unique J



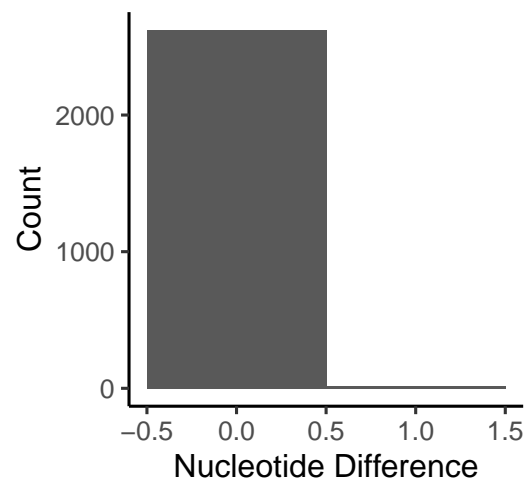
TRBV7-4*ap01

449 sequences assigned
442 (98.4%) exact matches, in which:
436 unique CDR3
13 unique J



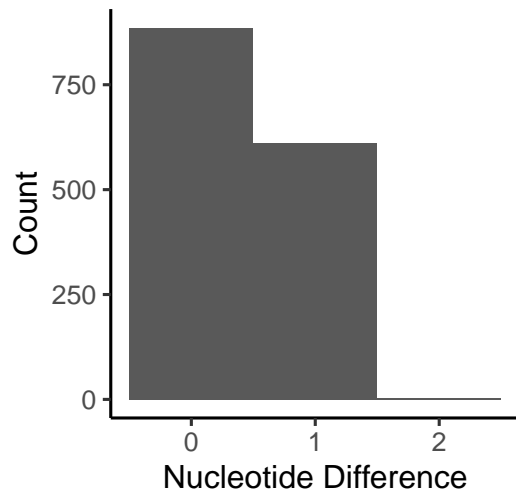
TRBV7-8*ap01

2638 sequences assigned
2622 (99.4%) exact matches, in which:
2580 unique CDR3
13 unique J



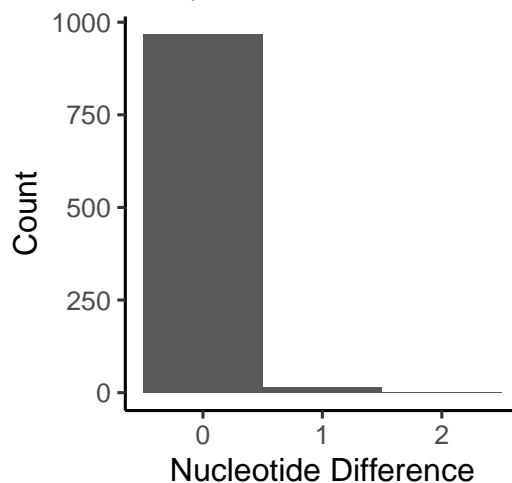
TRBV7-8*ap03

1502 sequences assigned
886 (59%) exact matches, in which:
872 unique CDR3
13 unique J



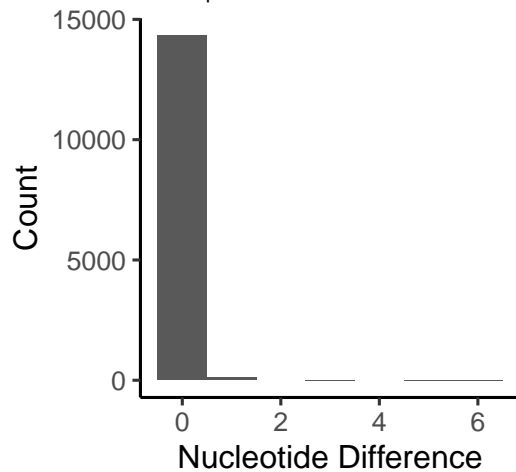
TRBV29-1*ap02

983 sequences assigned
967 (98.4%) exact matches, in which:
948 unique CDR3
13 unique J



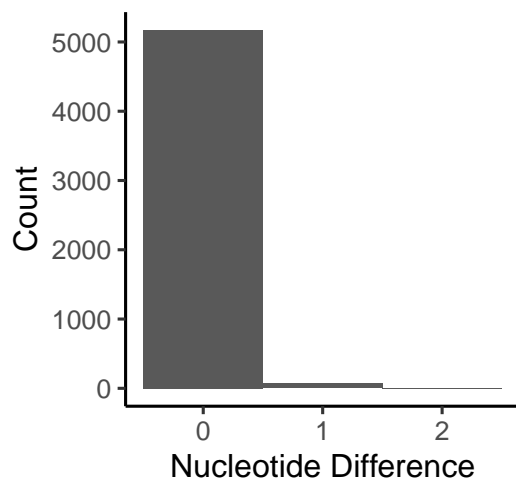
TRBV7-9*ap01

14458 sequences assigned
14331 (99.1%) exact matches, in which:
14094 unique CDR3
13 unique J

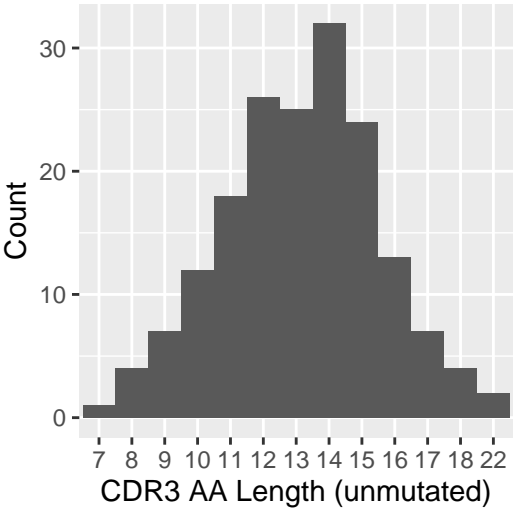


TRBV29-1*ap01

5242 sequences assigned
5172 (98.7%) exact matches, in which:
5033 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C





[illegible]