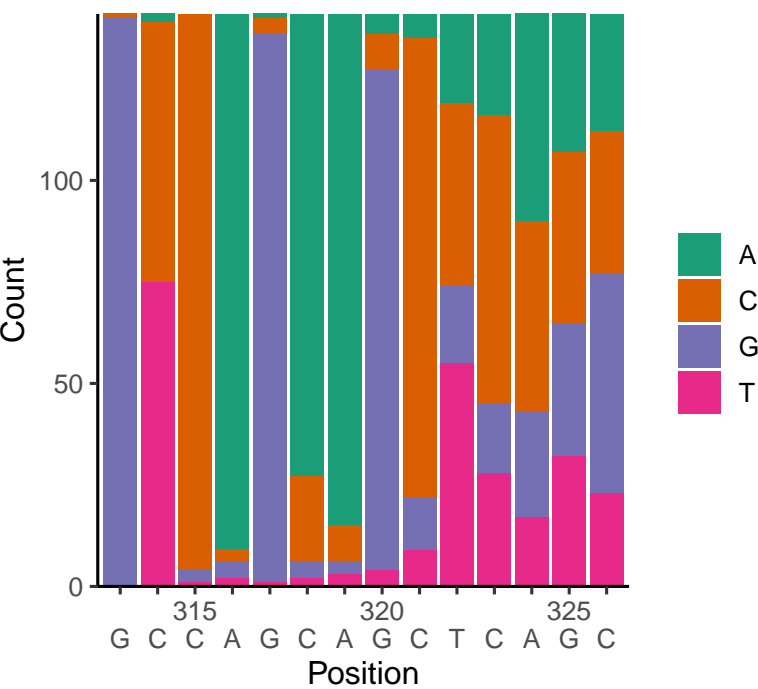
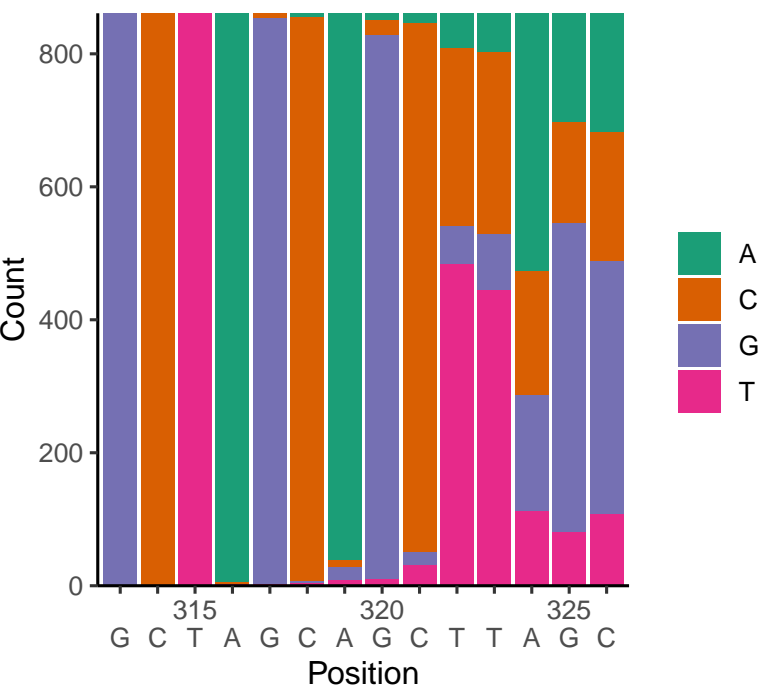


Gene TRBV7-1*ap01_T296C



Gene TRBV7-7*ap01_C315T



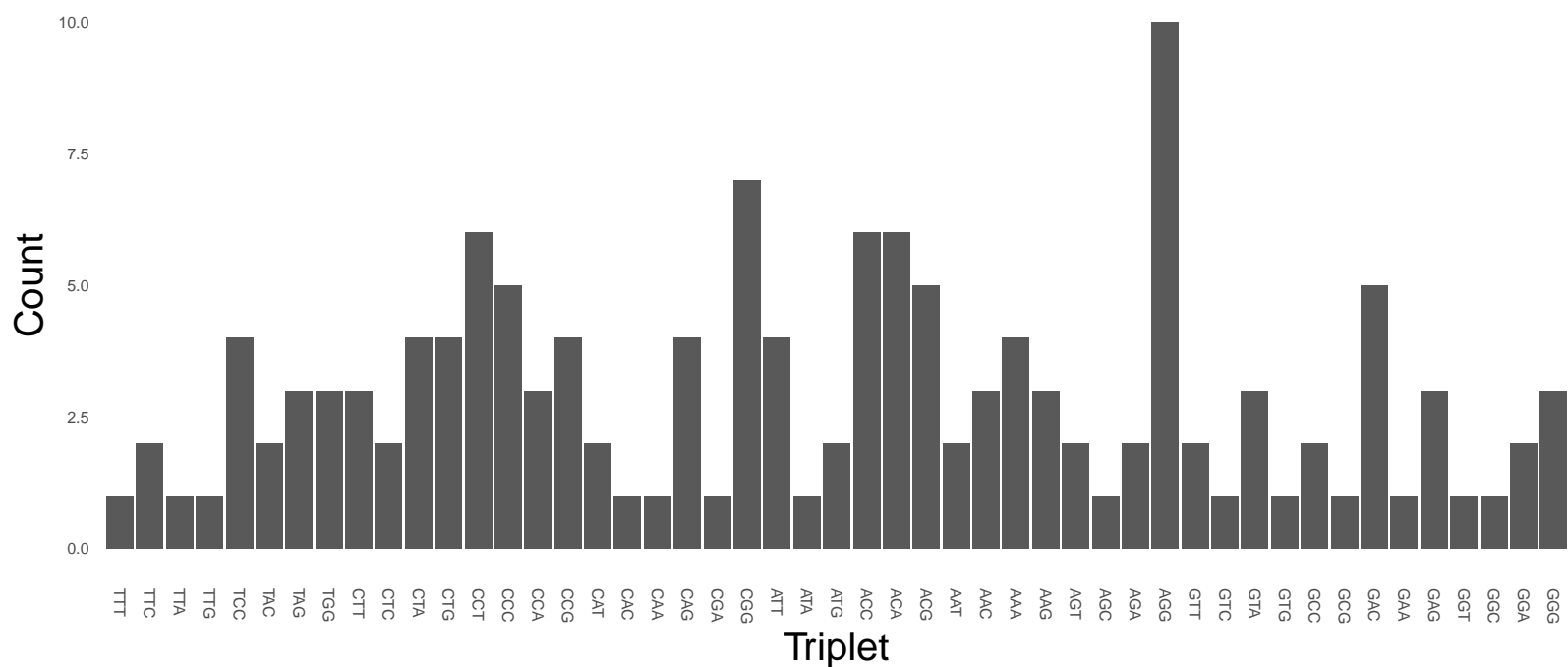
Gene TRBV7-1*ap01_T296C



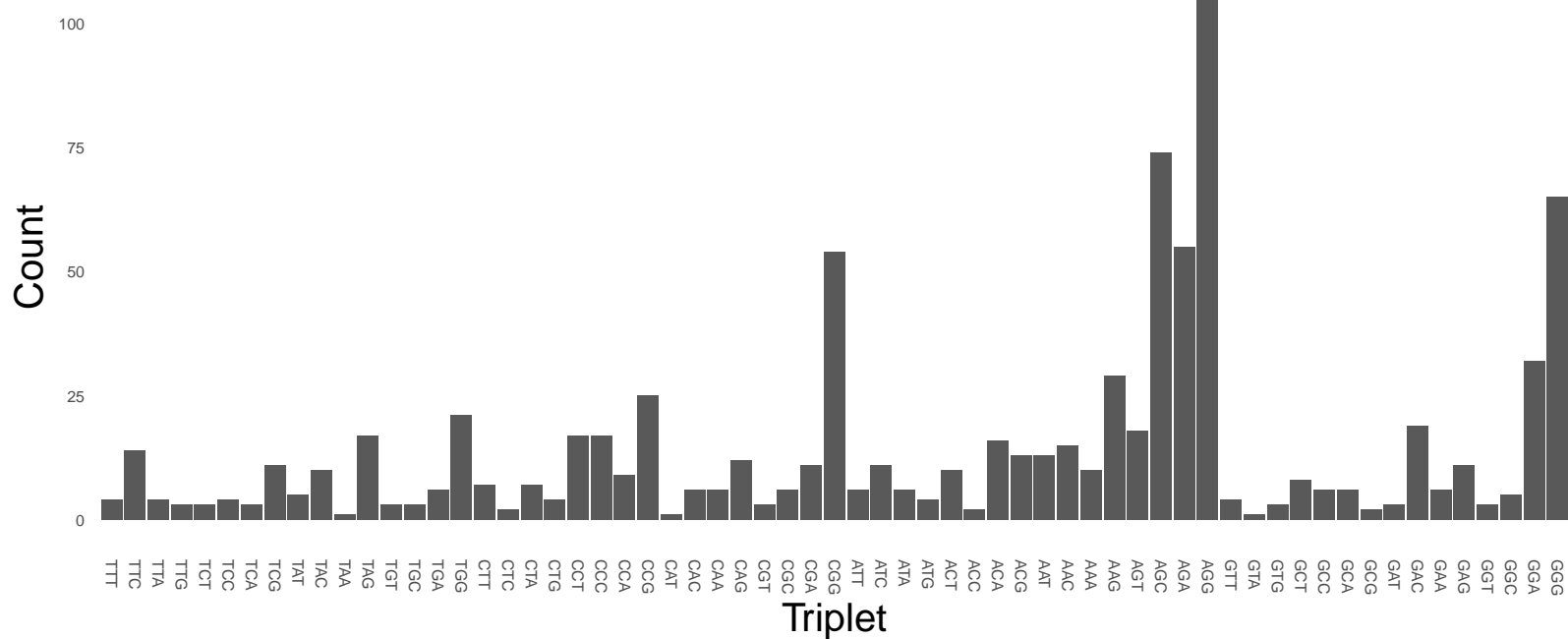
Gene TRBV7-7*ap01_C315T



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

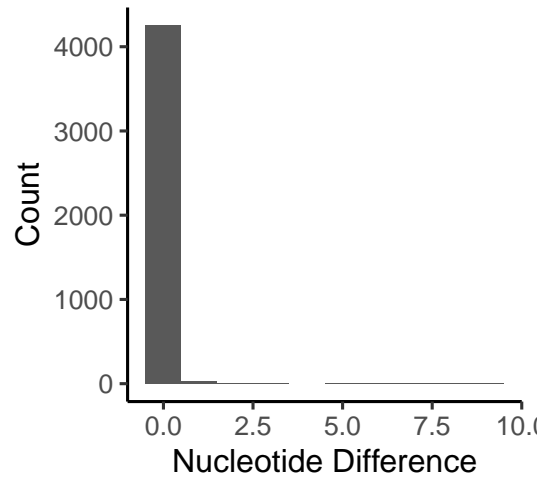


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



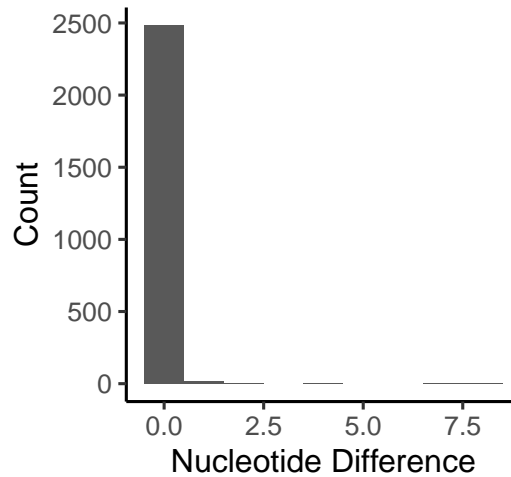
TRBV10-1*ap01

4290 sequences assigned
4253 (99.1%) exact matches, in which:
4206 unique CDR3
13 unique J



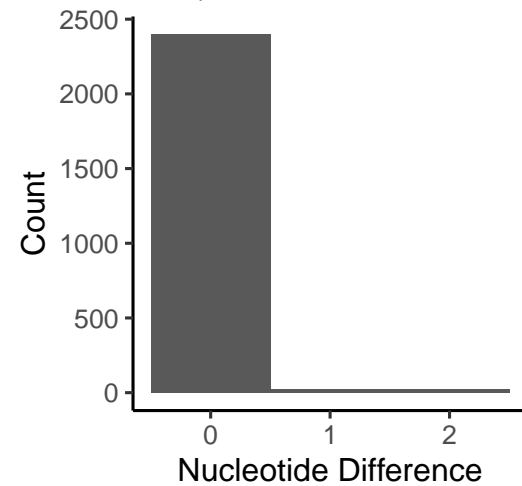
TRBV10-2*ap01

2505 sequences assigned
2483 (99.1%) exact matches, in which:
2468 unique CDR3
13 unique J



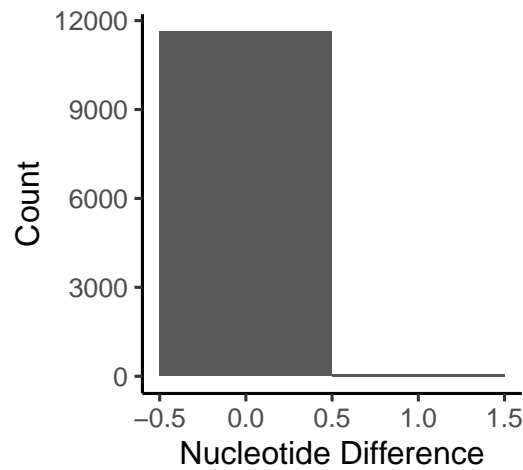
TRBV13*ap01

2446 sequences assigned
2398 (98%) exact matches, in which:
2373 unique CDR3
13 unique J



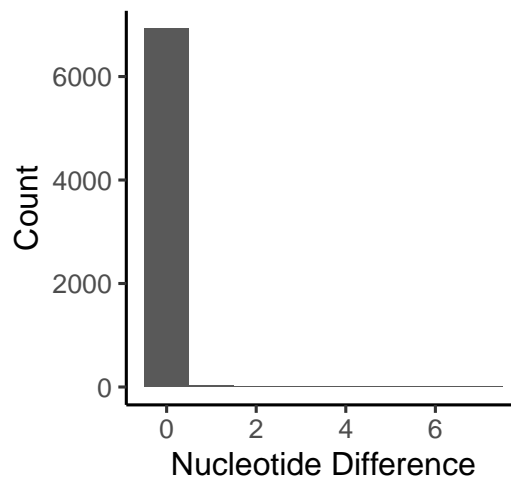
TRBV20-1*ap01

11711 sequences assigned
11634 (99.3%) exact matches, in which:
11558 unique CDR3
13 unique J



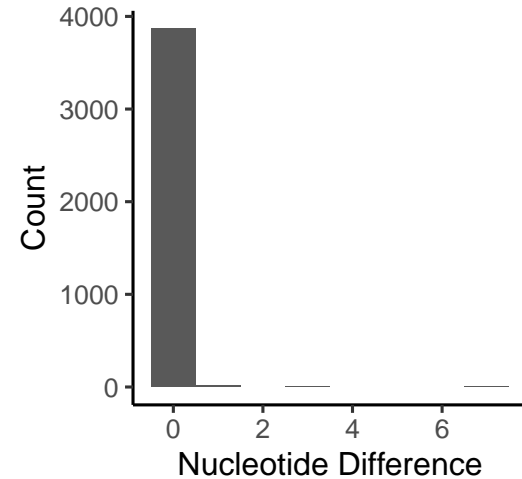
TRBV10-3*ap01

6969 sequences assigned
6924 (99.4%) exact matches, in which:
6871 unique CDR3
13 unique J



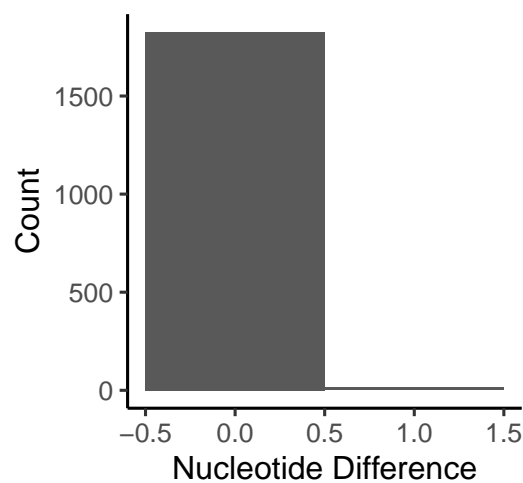
TRBV14*ap01

3885 sequences assigned
3867 (99.5%) exact matches, in which:
3848 unique CDR3
13 unique J



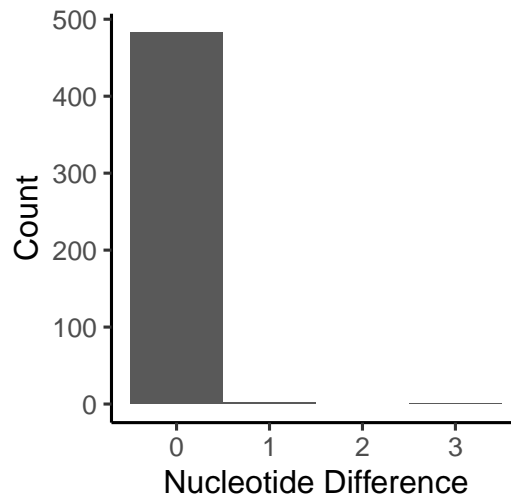
TRBV20-1*ap02

1840 sequences assigned
1826 (99.2%) exact matches, in which:
1817 unique CDR3
13 unique J



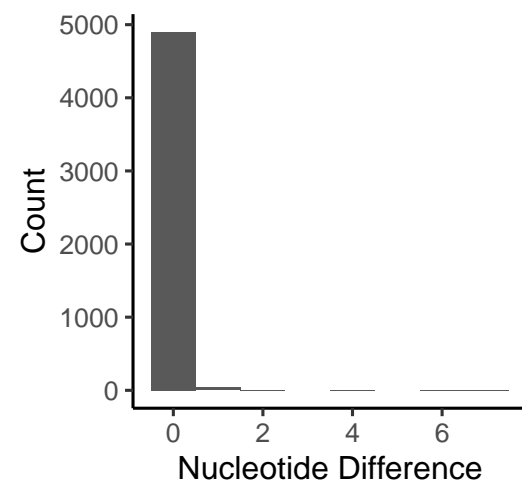
TRBV1*ap01

486 sequences assigned
483 (99.4%) exact matches, in which:
469 unique CDR3
13 unique J



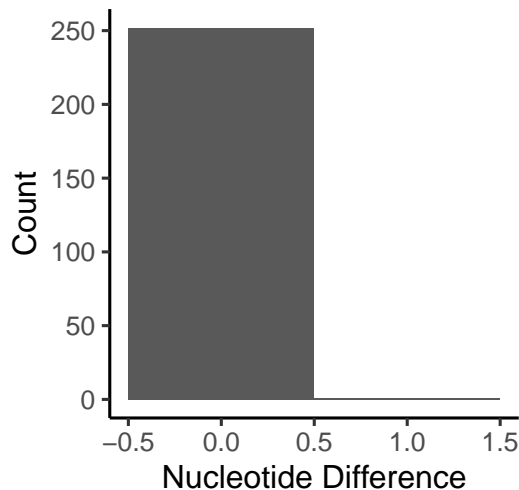
TRBV15*ap02

4943 sequences assigned
4899 (99.1%) exact matches, in which:
4852 unique CDR3
13 unique J



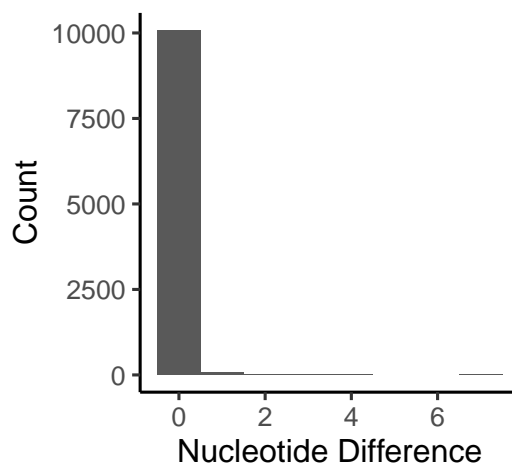
TRBV16*ap01

253 sequences assigned
252 (99.6%) exact matches, in which:
251 unique CDR3
13 unique J



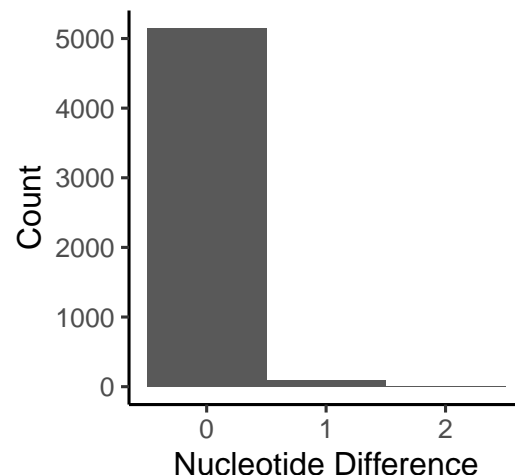
TRBV2*ap01

10172 sequences assigned
10082 (99.1%) exact matches, in which:
9983 unique CDR3
13 unique J



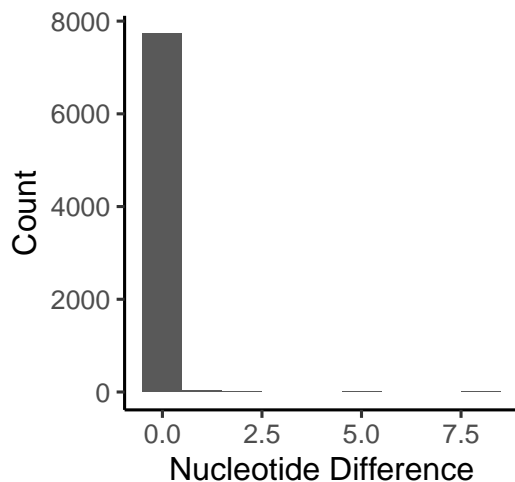
TRBV30*ap01

5233 sequences assigned
5145 (98.3%) exact matches, in which:
5049 unique CDR3
13 unique J



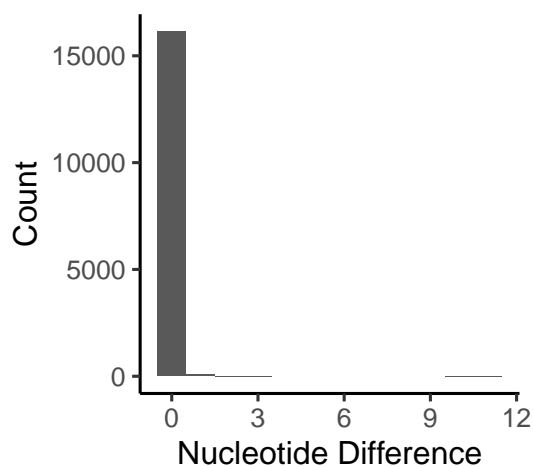
TRBV18*ap01

7763 sequences assigned
7728 (99.5%) exact matches, in which:
7705 unique CDR3
13 unique J



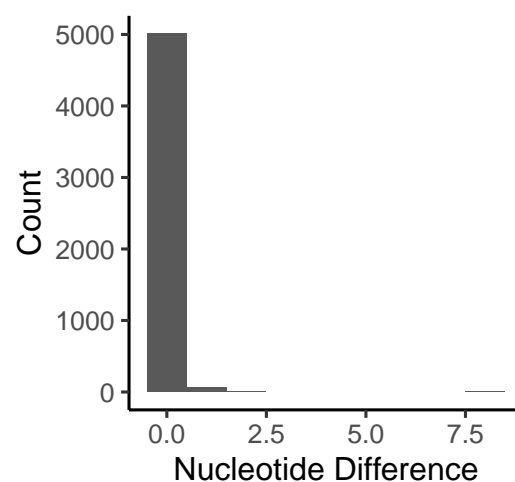
TRBV27*ap01

16236 sequences assigned
16139 (99.4%) exact matches, in which:
16033 unique CDR3
13 unique J



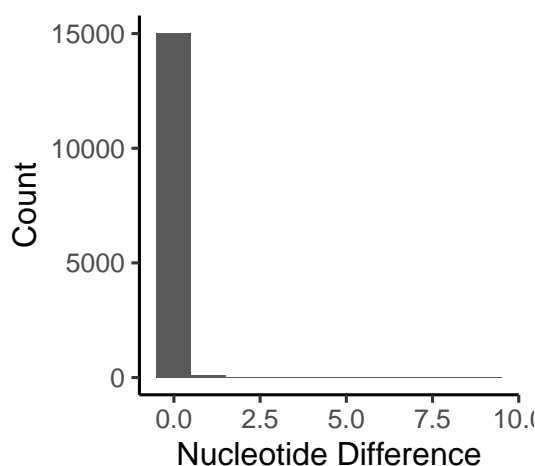
TRBV30*ap02

5076 sequences assigned
5010 (98.7%) exact matches, in which:
4915 unique CDR3
13 unique J



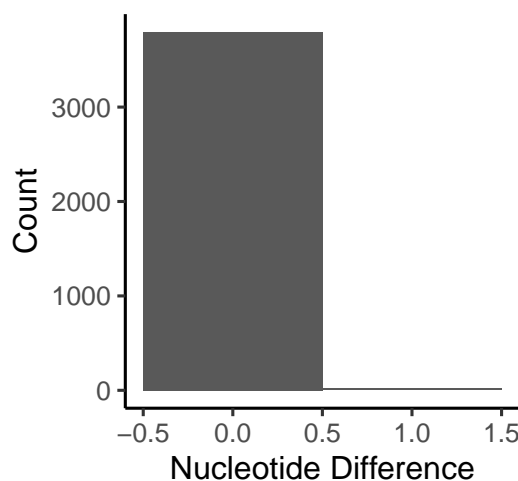
TRBV19*ap01

15149 sequences assigned
15035 (99.2%) exact matches, in which:
14979 unique CDR3
13 unique J



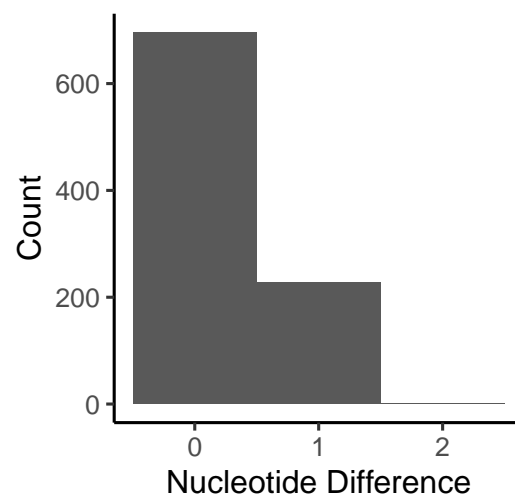
TRBV28*ap01

3814 sequences assigned
3795 (99.5%) exact matches, in which:
3775 unique CDR3
13 unique J



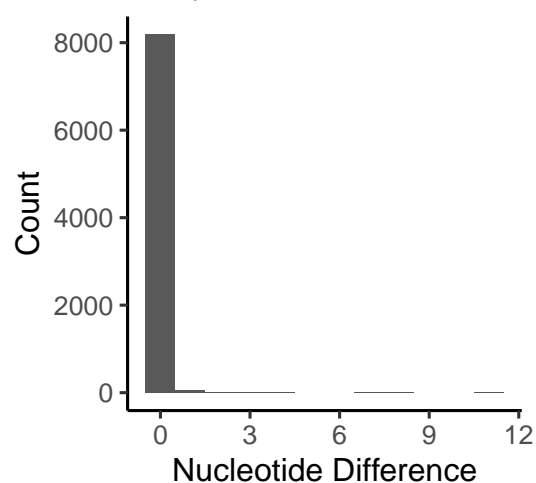
TRBV30*ap03

924 sequences assigned
696 (75.3%) exact matches, in which:
685 unique CDR3
13 unique J



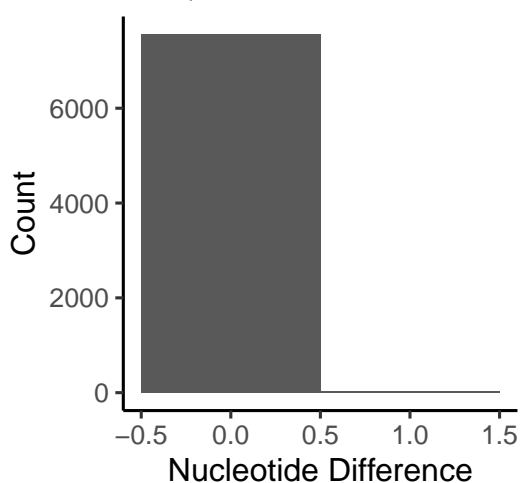
TRBV9*ap01

8250 sequences assigned
8189 (99.3%) exact matches, in which:
8154 unique CDR3
13 unique J



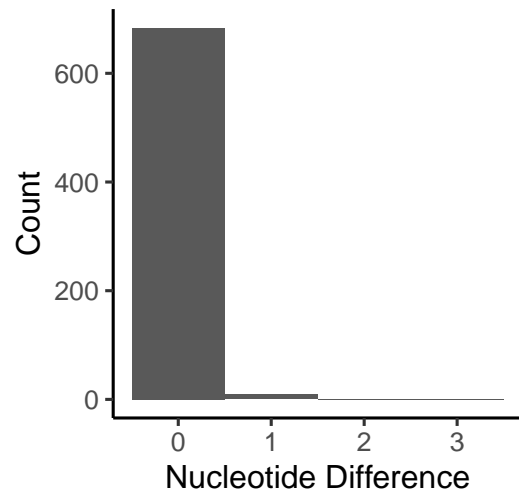
TRBV11-2*ap01

7589 sequences assigned
7557 (99.6%) exact matches, in which:
7508 unique CDR3
13 unique J



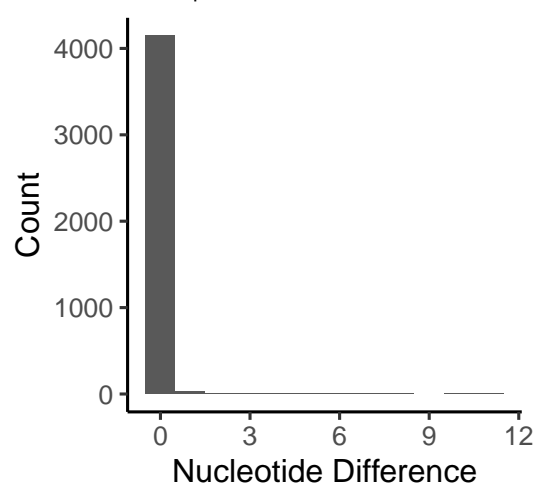
TRBV12-2*ap01

695 sequences assigned
684 (98.4%) exact matches, in which:
680 unique CDR3
13 unique J



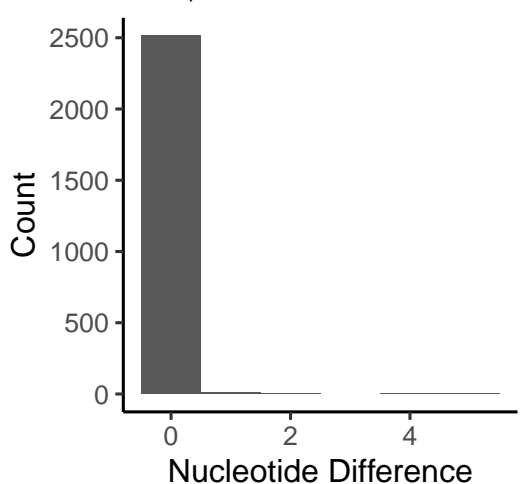
TRBV21-1*ap01

4205 sequences assigned
4147 (98.6%) exact matches, in which:
4139 unique CDR3
13 unique J



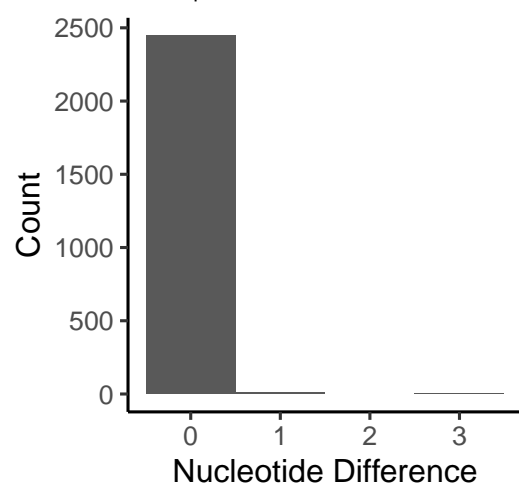
TRBV11-3*ap01

2529 sequences assigned
2514 (99.4%) exact matches, in which:
2501 unique CDR3
13 unique J



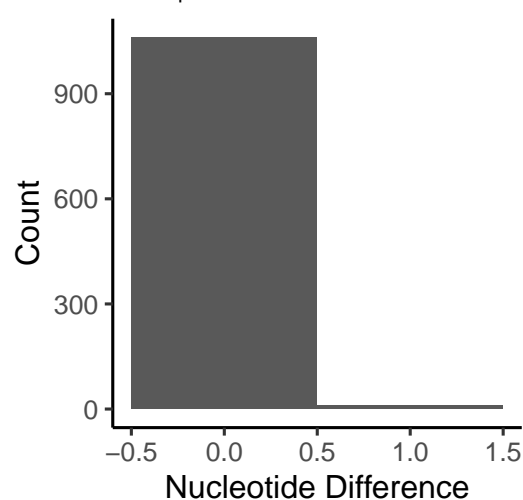
TRBV12-5*ap01

2457 sequences assigned
2446 (99.6%) exact matches, in which:
2427 unique CDR3
13 unique J



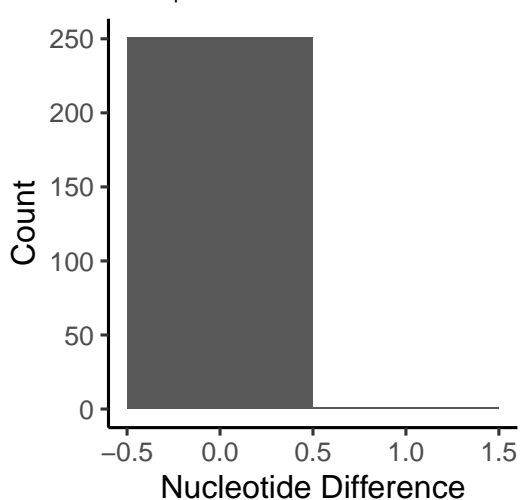
TRBV11-1*ap01

1072 sequences assigned
1061 (99%) exact matches, in which:
1053 unique CDR3
12 unique J



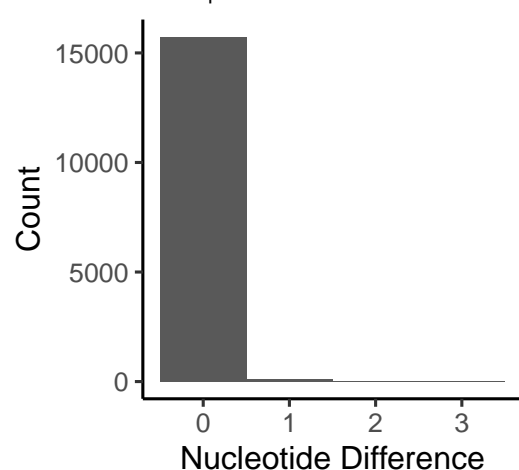
TRBV12-1*ap01

252 sequences assigned
251 (99.6%) exact matches, in which:
247 unique CDR3
12 unique J



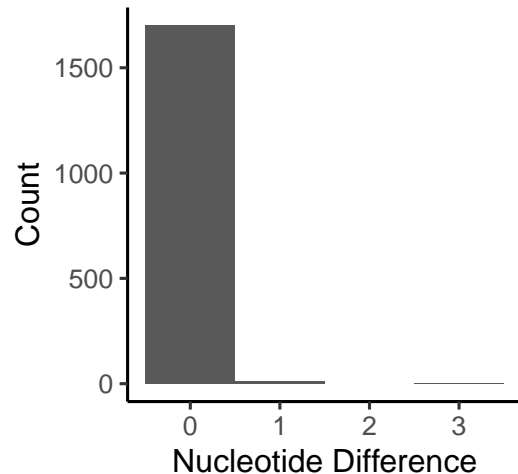
TRBV12-34*ap01

15841 sequences assigned
15737 (99.3%) exact matches, in which:
15623 unique CDR3
13 unique J



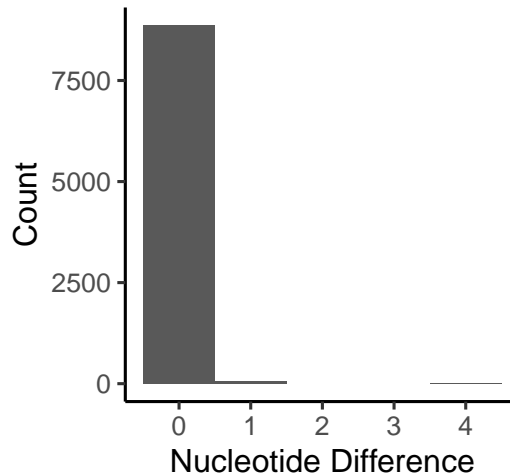
TRBV23-1*ap01

1713 sequences assigned
1701 (99.3%) exact matches, in which:
1695 unique CDR3
13 unique J



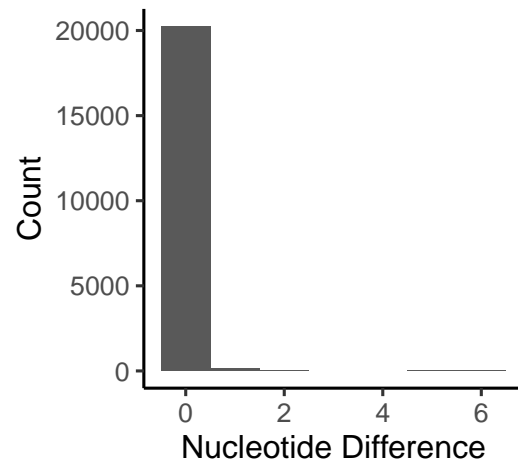
TRBV4-1*ap01

8926 sequences assigned
8863 (99.3%) exact matches, in which:
8756 unique CDR3
13 unique J



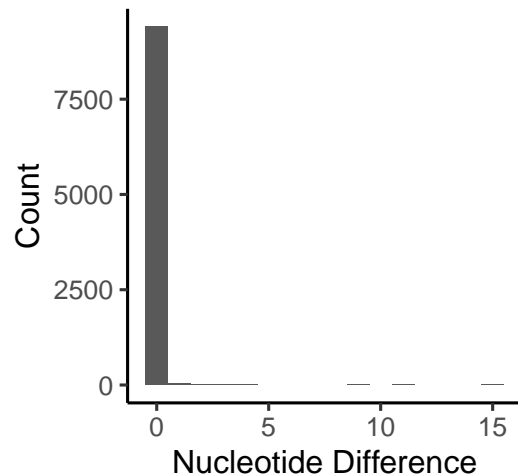
TRBV5-1*ap01

20428 sequences assigned
20256 (99.2%) exact matches, in which:
20038 unique CDR3
13 unique J



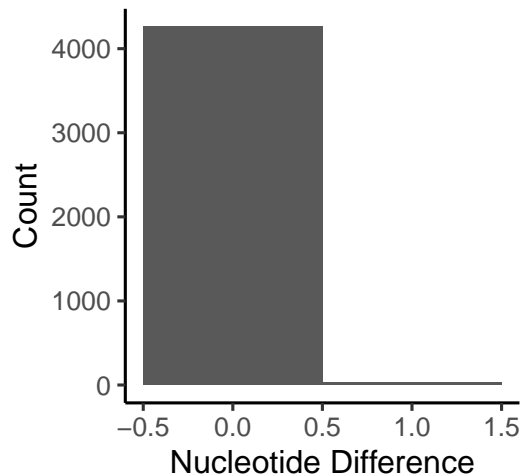
TRBV3-12*ap01

9453 sequences assigned
9401 (99.4%) exact matches, in which:
9361 unique CDR3
13 unique J



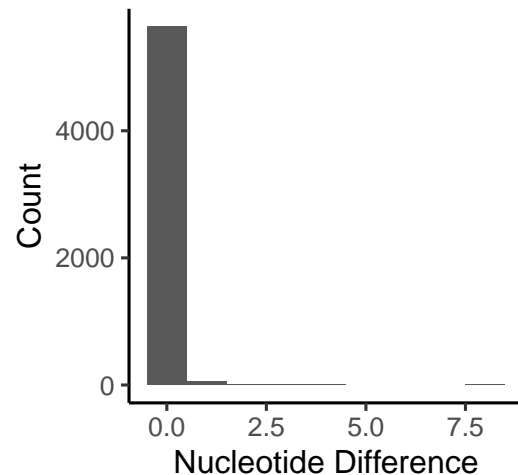
TRBV4-2*ap01

4296 sequences assigned
4261 (99.2%) exact matches, in which:
4229 unique CDR3
13 unique J



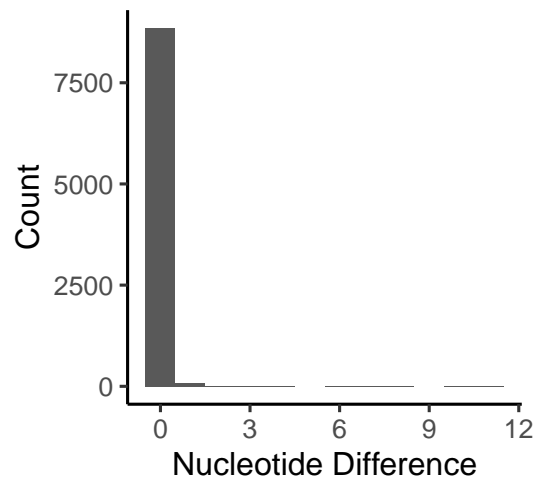
TRBV25-1*ap01

5703 sequences assigned
5637 (98.8%) exact matches, in which:
5545 unique CDR3
13 unique J



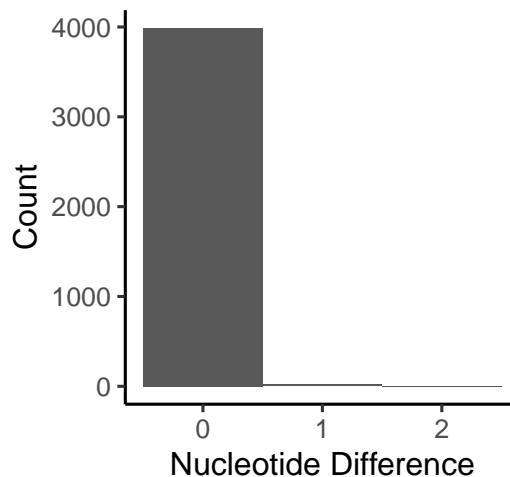
TRBV24-1*ap01

8951 sequences assigned
8852 (98.9%) exact matches, in which:
8763 unique CDR3
14 unique J



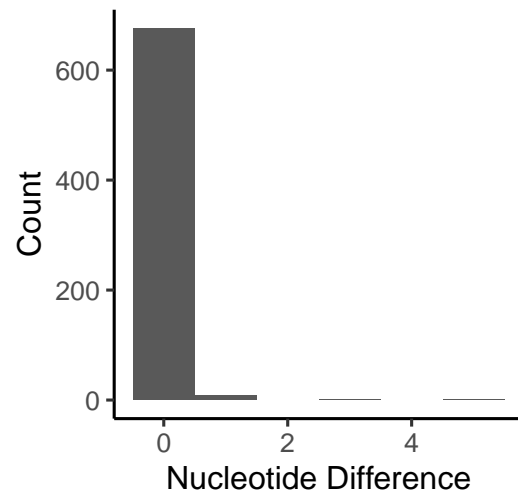
TRBV4-3*ap01

4010 sequences assigned
3988 (99.5%) exact matches, in which:
3947 unique CDR3
13 unique J



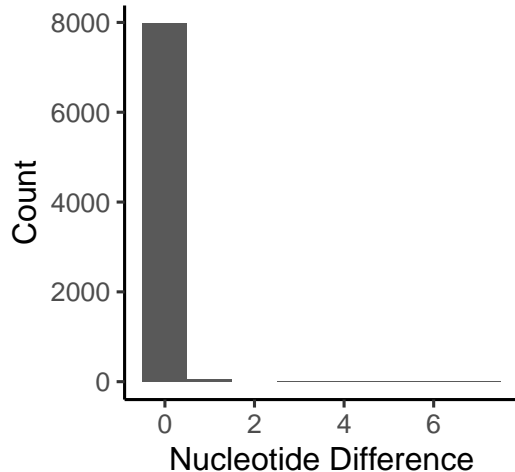
TRBV5-3*ap01

686 sequences assigned
676 (98.5%) exact matches, in which:
671 unique CDR3
13 unique J



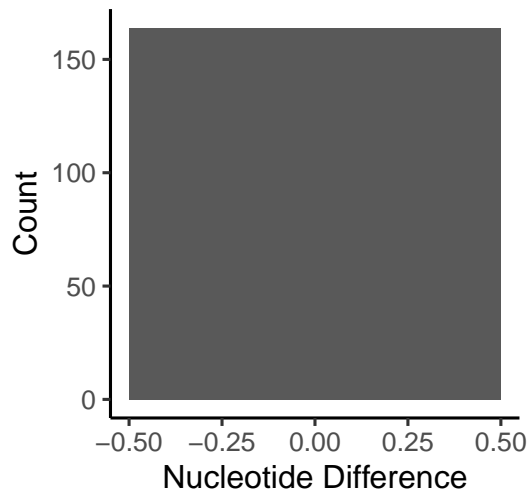
TRBV5-4*ap01

8037 sequences assigned
7978 (99.3%) exact matches, in which:
7897 unique CDR3
13 unique J



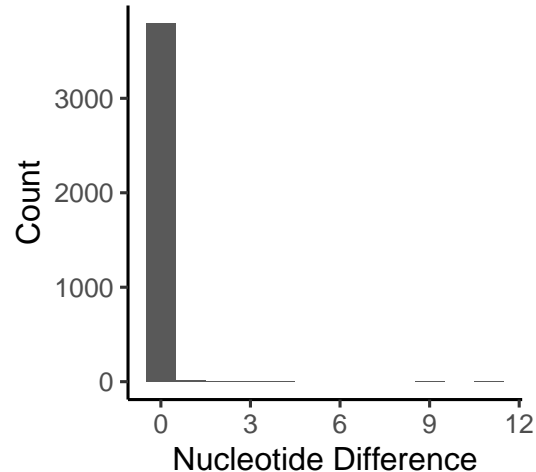
TRBV5-7*ap01

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



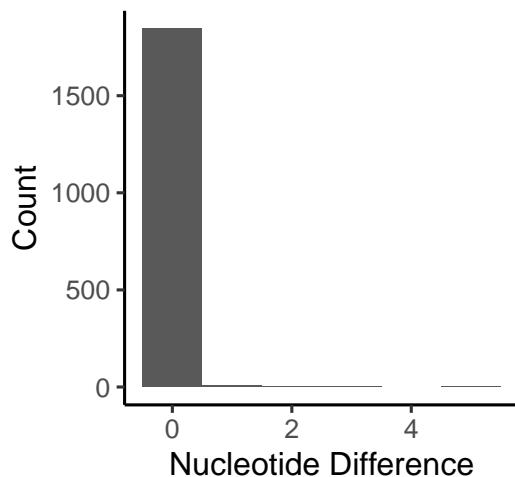
TRBV6-4*ap01

3828 sequences assigned
3793 (99.1%) exact matches, in which:
3773 unique CDR3
13 unique J



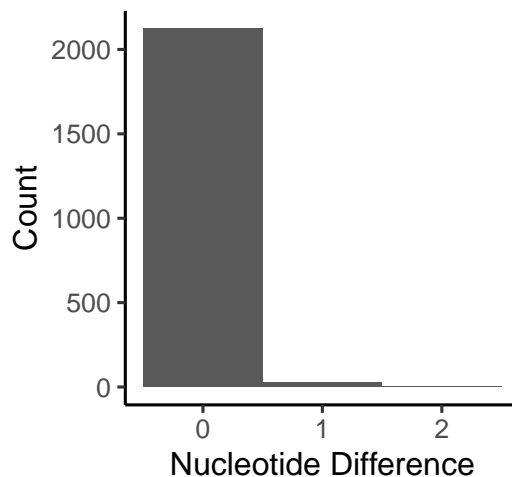
TRBV5-5*ap01

1854 sequences assigned
1845 (99.5%) exact matches, in which:
1842 unique CDR3
13 unique J



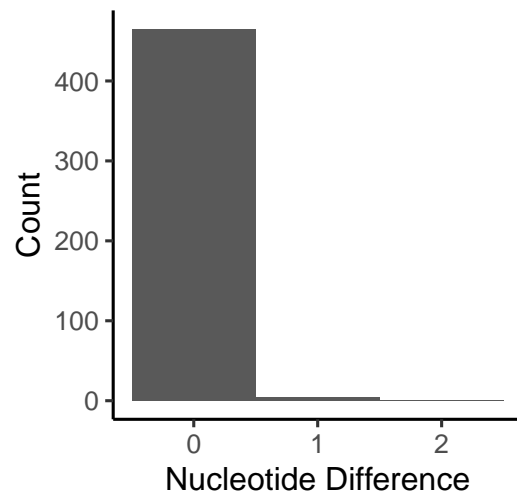
TRBV5-8*ap01

2151 sequences assigned
2123 (98.7%) exact matches, in which:
2108 unique CDR3
13 unique J



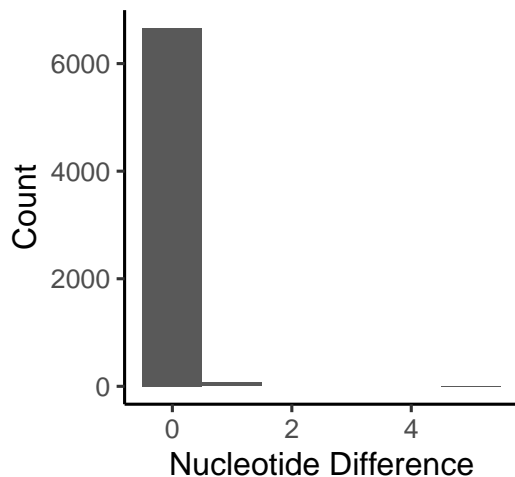
TRBV6-7*ap01

471 sequences assigned
465 (98.7%) exact matches, in which:
455 unique CDR3
13 unique J



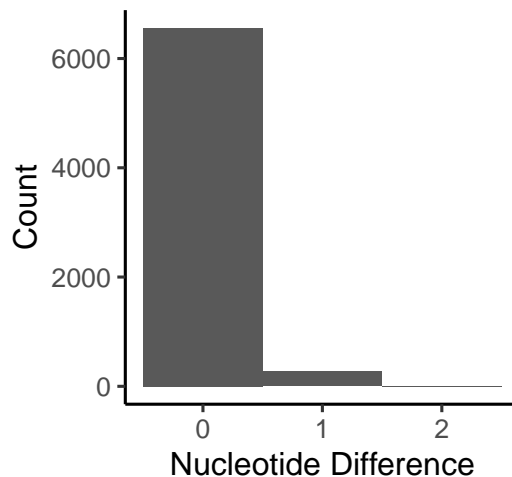
TRBV5-6*ap01

6737 sequences assigned
6661 (98.9%) exact matches, in which:
6542 unique CDR3
13 unique J



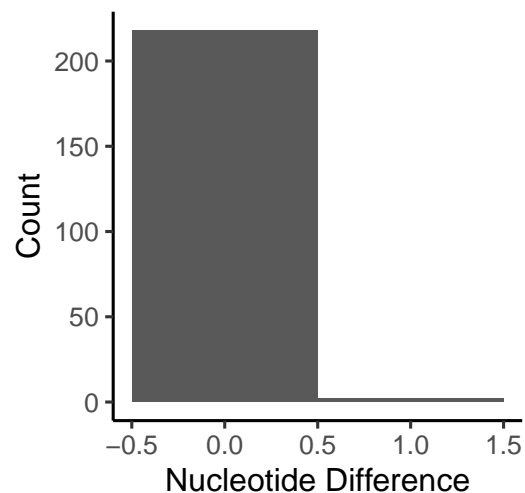
TRBV6-1*ap01

6835 sequences assigned
6558 (95.9%) exact matches, in which:
6460 unique CDR3
13 unique J



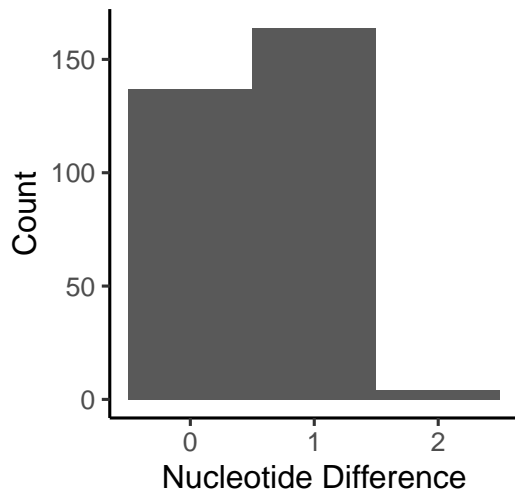
TRBV6-8*ap01

220 sequences assigned
218 (99.1%) exact matches, in which:
215 unique CDR3
13 unique J



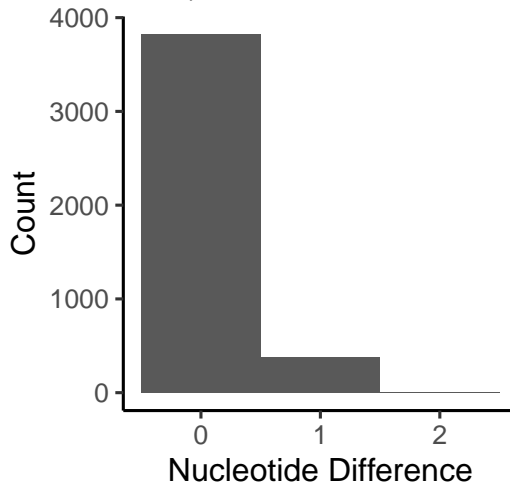
TRBV6-9*ap01

305 sequences assigned
137 (44.9%) exact matches, in which:
132 unique CDR3
12 unique J



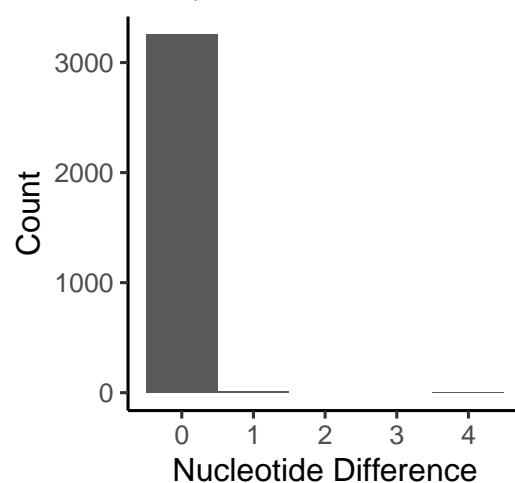
TRBV6-56*ap02

4206 sequences assigned
3821 (90.8%) exact matches, in which:
3751 unique CDR3
13 unique J



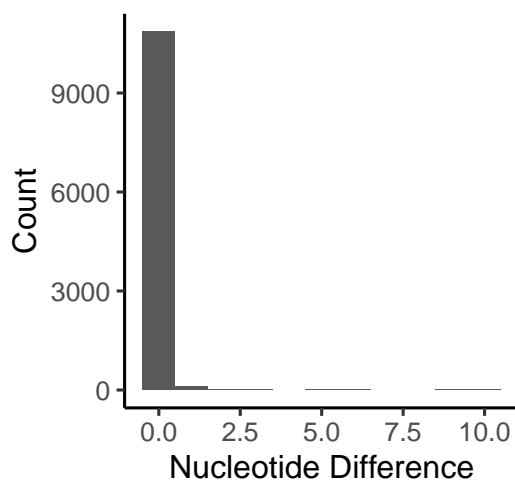
TRBV7-3*ap01

3276 sequences assigned
3256 (99.4%) exact matches, in which:
3245 unique CDR3
13 unique J



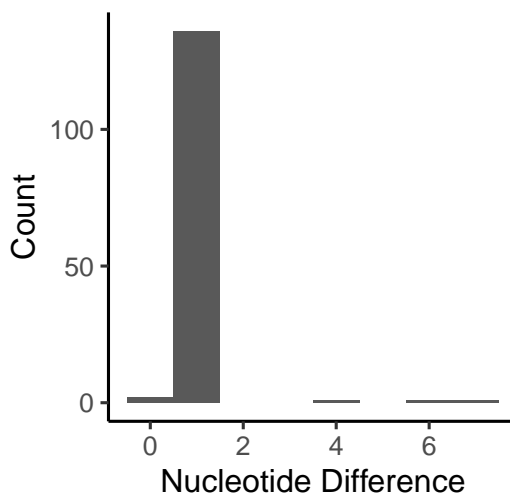
TRBV6-23*ap01

10978 sequences assigned
10857 (98.9%) exact matches, in which:
10659 unique CDR3
13 unique J



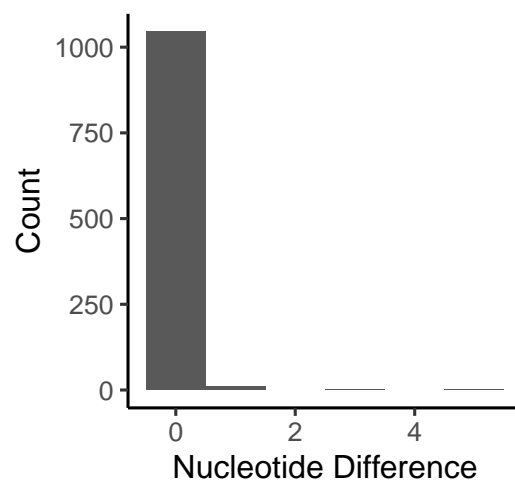
TRBV7-1*ap01_T296C

141 sequences assigned
2 (1.4%) exact matches, in which:
2 unique CDR3
1 unique J



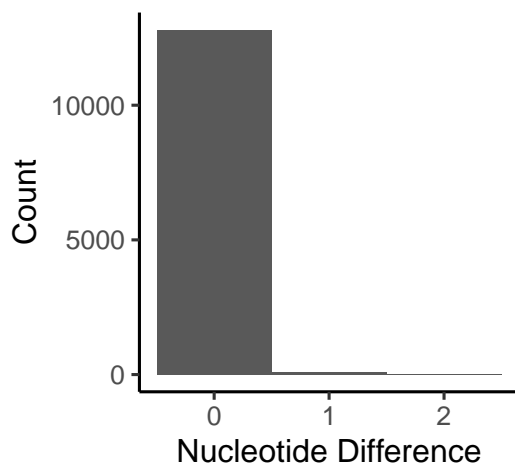
TRBV7-3*ap03

1057 sequences assigned
1045 (98.9%) exact matches, in which:
1038 unique CDR3
13 unique J



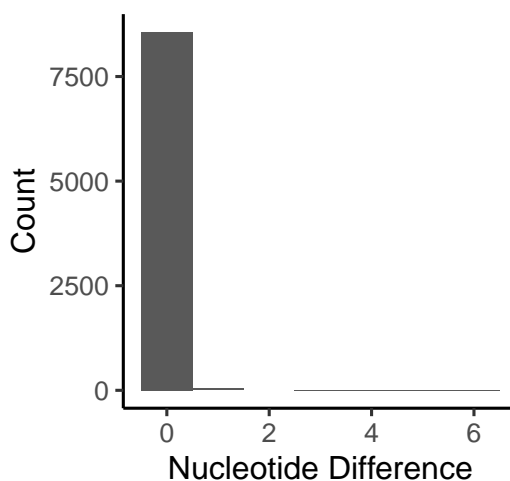
TRBV6-56*ap01

12908 sequences assigned
12800 (99.2%) exact matches, in which:
12554 unique CDR3
13 unique J



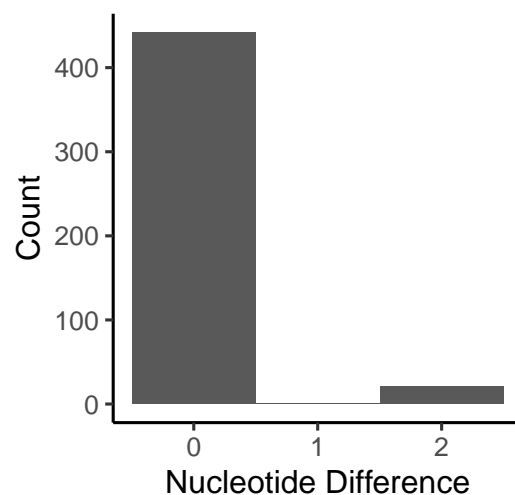
TRBV7-2*ap01

8608 sequences assigned
8563 (99.5%) exact matches, in which:
8505 unique CDR3
13 unique J



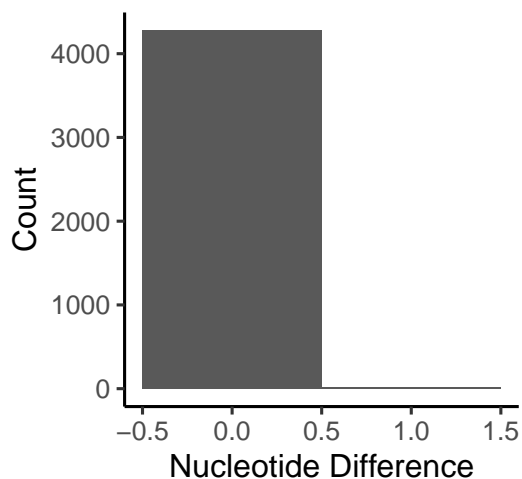
TRBV7-4*ap01

464 sequences assigned
442 (95.3%) exact matches, in which:
439 unique CDR3
13 unique J



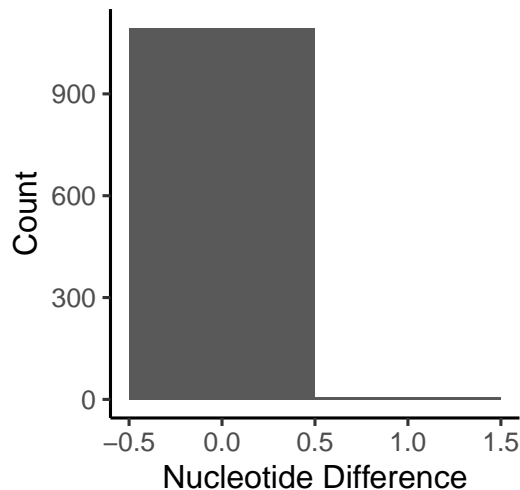
TRBV7-6*ap01

4297 sequences assigned
4278 (99.6%) exact matches, in which:
4241 unique CDR3
13 unique J



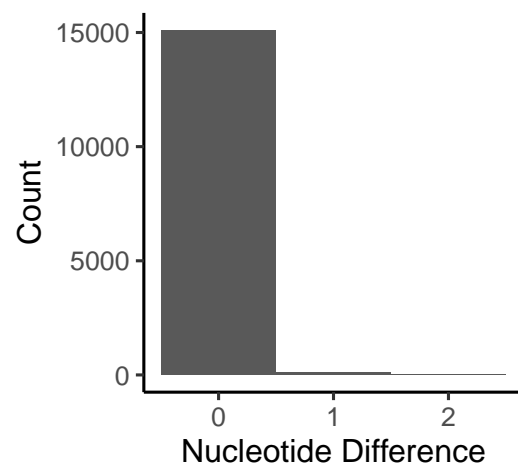
TRBV7-8*ap01

1103 sequences assigned
1095 (99.3%) exact matches, in which:
1089 unique CDR3
13 unique J



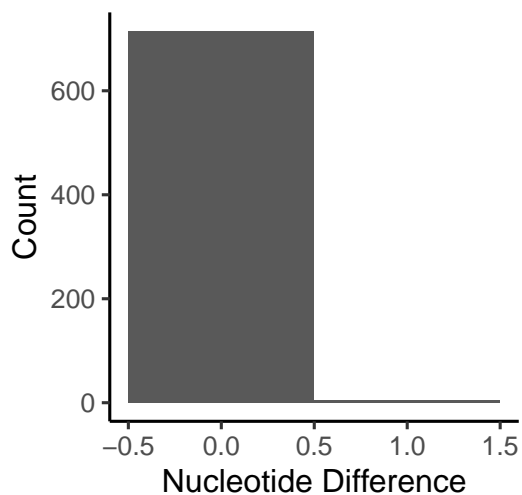
TRBV7-9*ap01

15201 sequences assigned
15103 (99.4%) exact matches, in which:
15002 unique CDR3
13 unique J



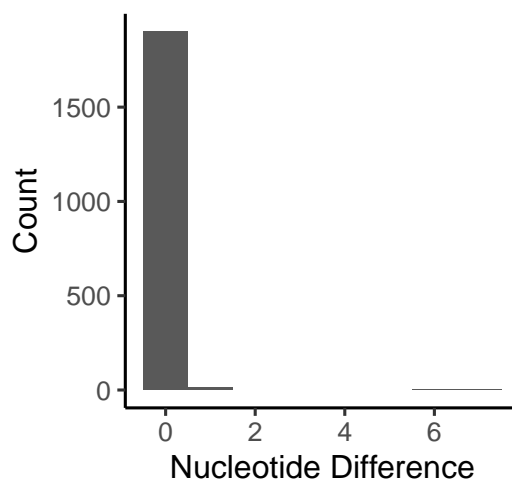
TRBV7-7*ap01

719 sequences assigned
715 (99.4%) exact matches, in which:
710 unique CDR3
13 unique J



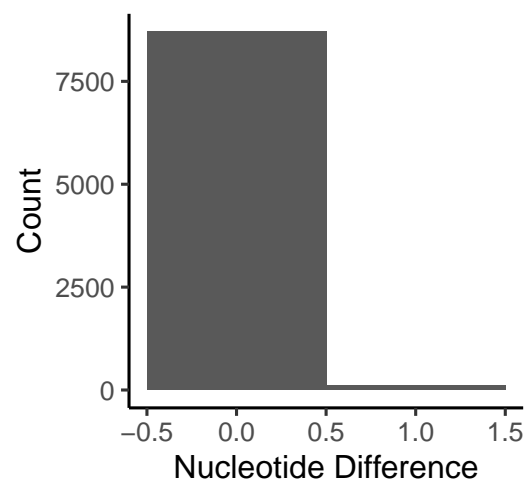
TRBV7-8*ap02

1913 sequences assigned
1900 (99.3%) exact matches, in which:
1885 unique CDR3
13 unique J



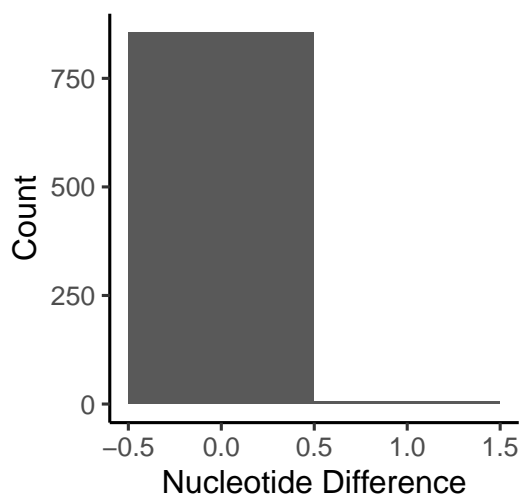
TRBV29-1*ap01

8813 sequences assigned
8706 (98.8%) exact matches, in which:
8526 unique CDR3
13 unique J



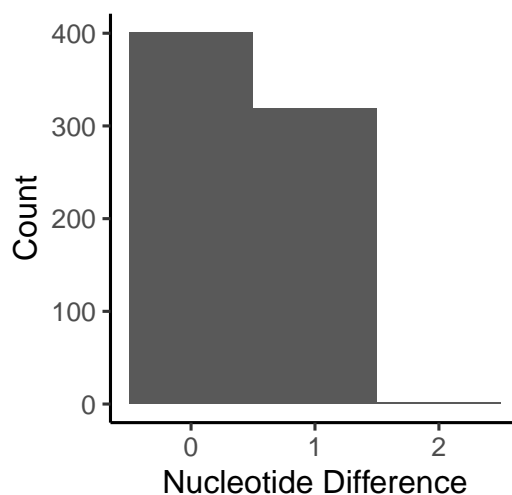
TRBV7-7*ap01_C315T

861 sequences assigned
856 (99.4%) exact matches, in which:
852 unique CDR3
13 unique J



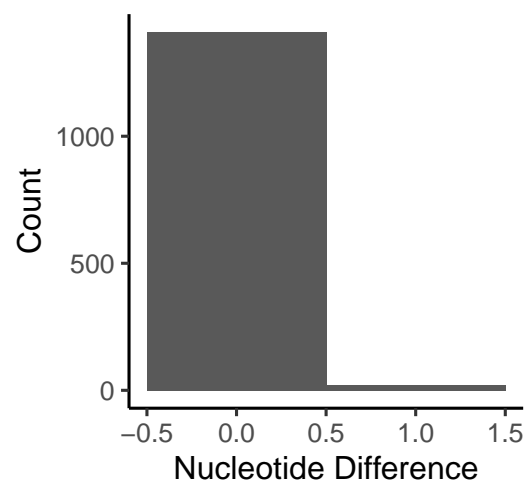
TRBV7-8*ap03

722 sequences assigned
401 (55.5%) exact matches, in which:
400 unique CDR3
13 unique J

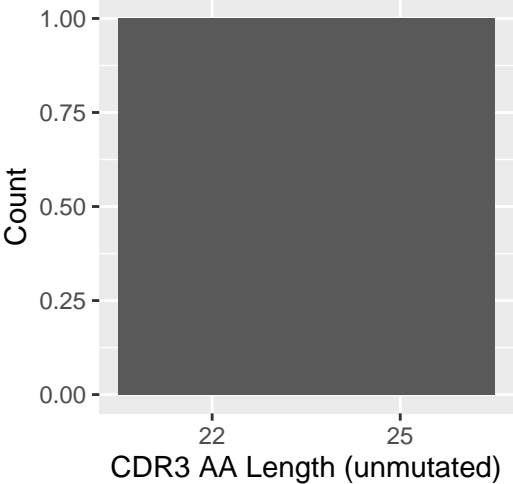


TRBV29-1*ap02

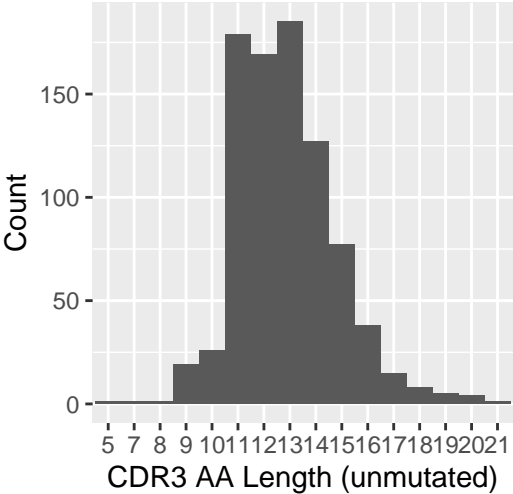
1432 sequences assigned
1410 (98.5%) exact matches, in which:
1383 unique CDR3
13 unique J



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T





[illegible]