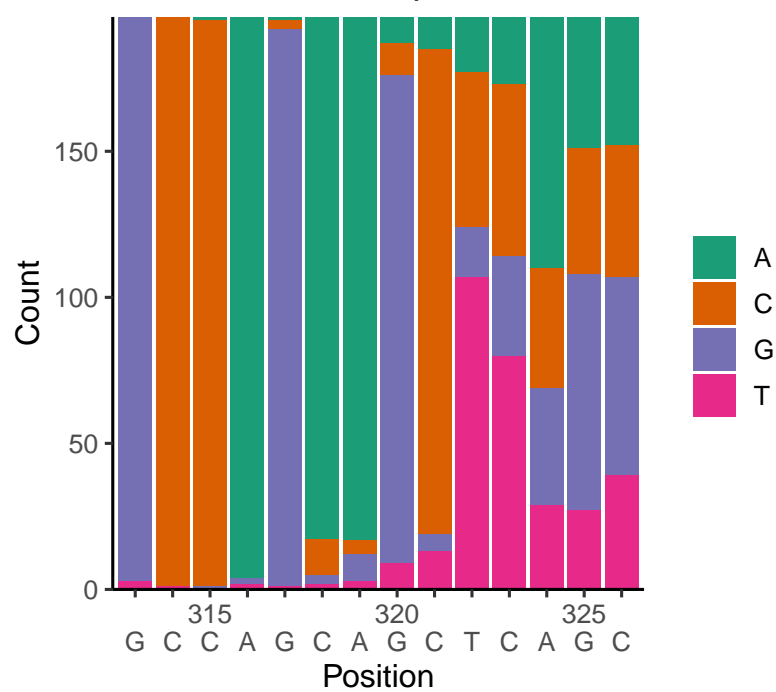
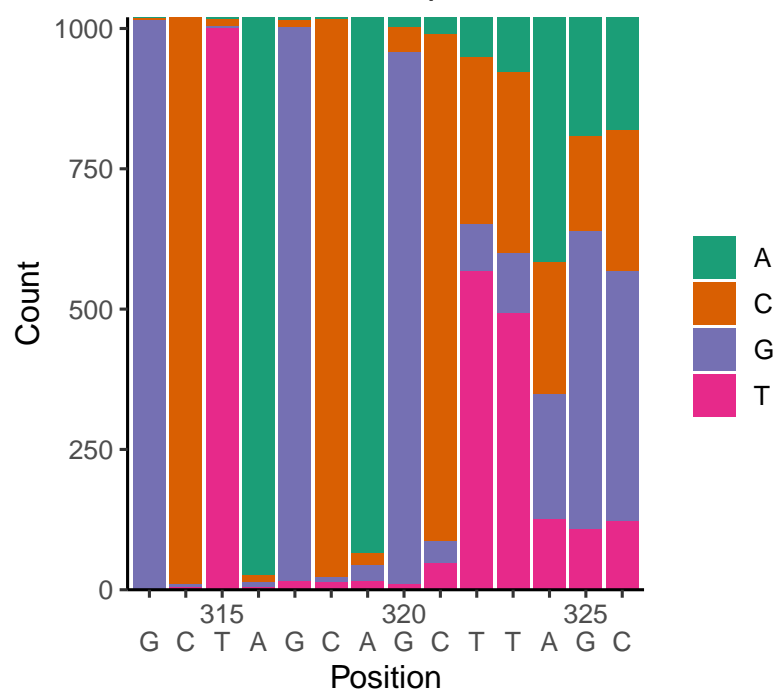


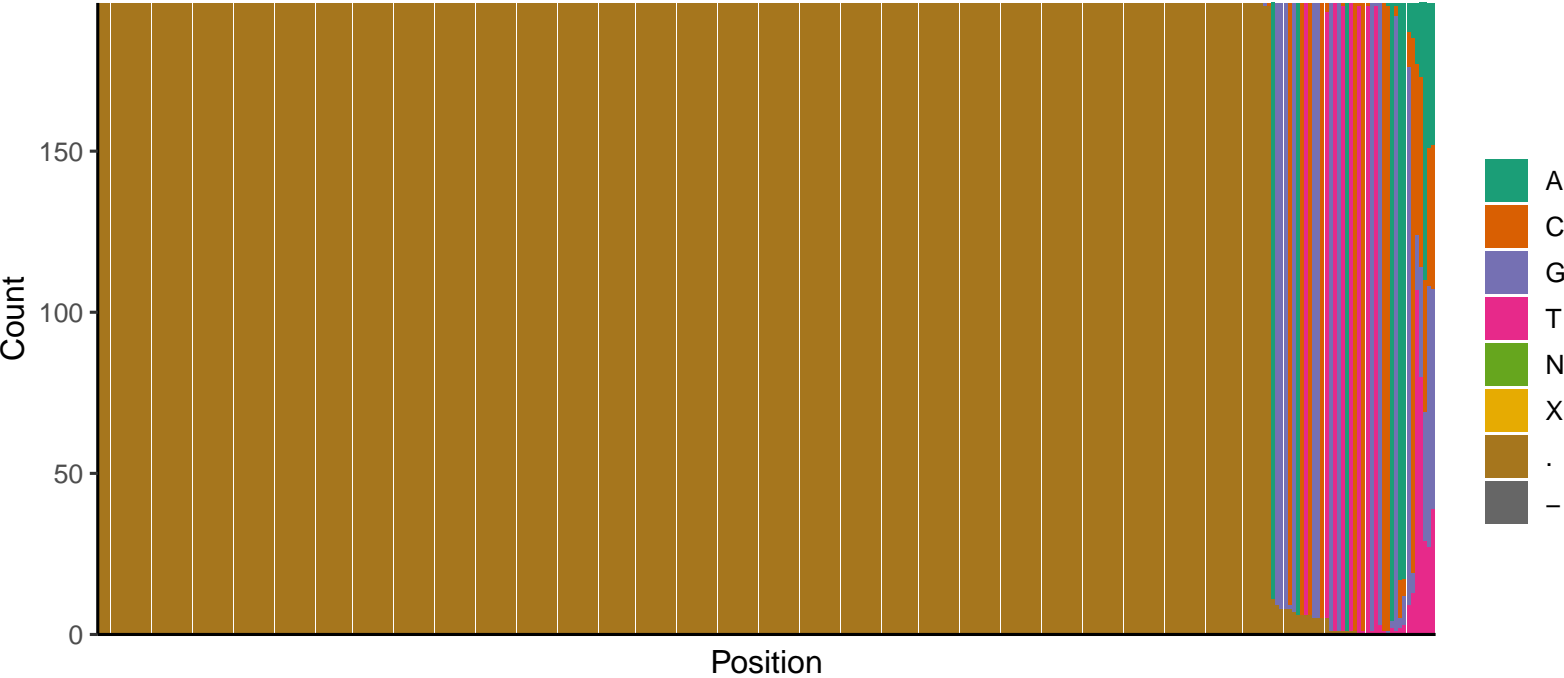
Gene TRBV7-1*ap01_G291C_T296C



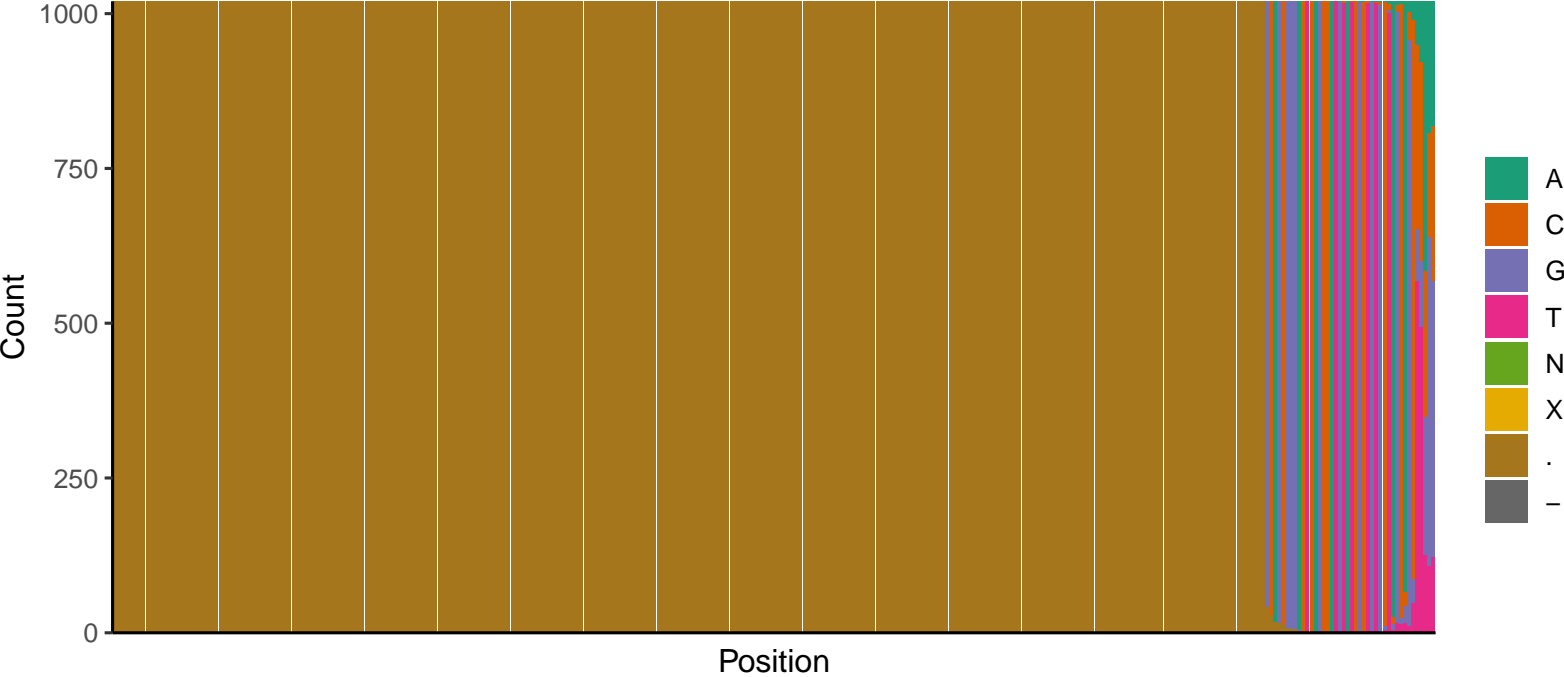
Gene TRBV7-7*ap01_C315T



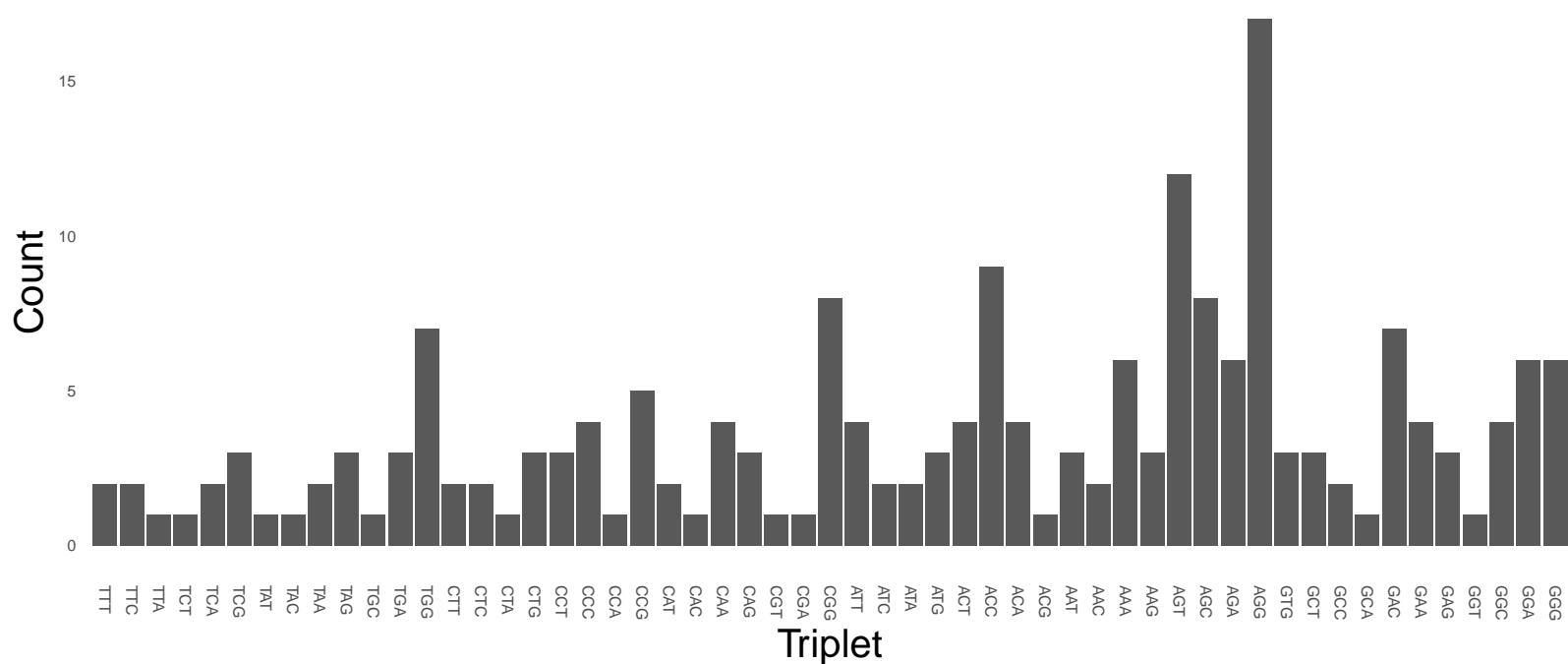
Gene TRBV7-1*ap01_G291C_T296C



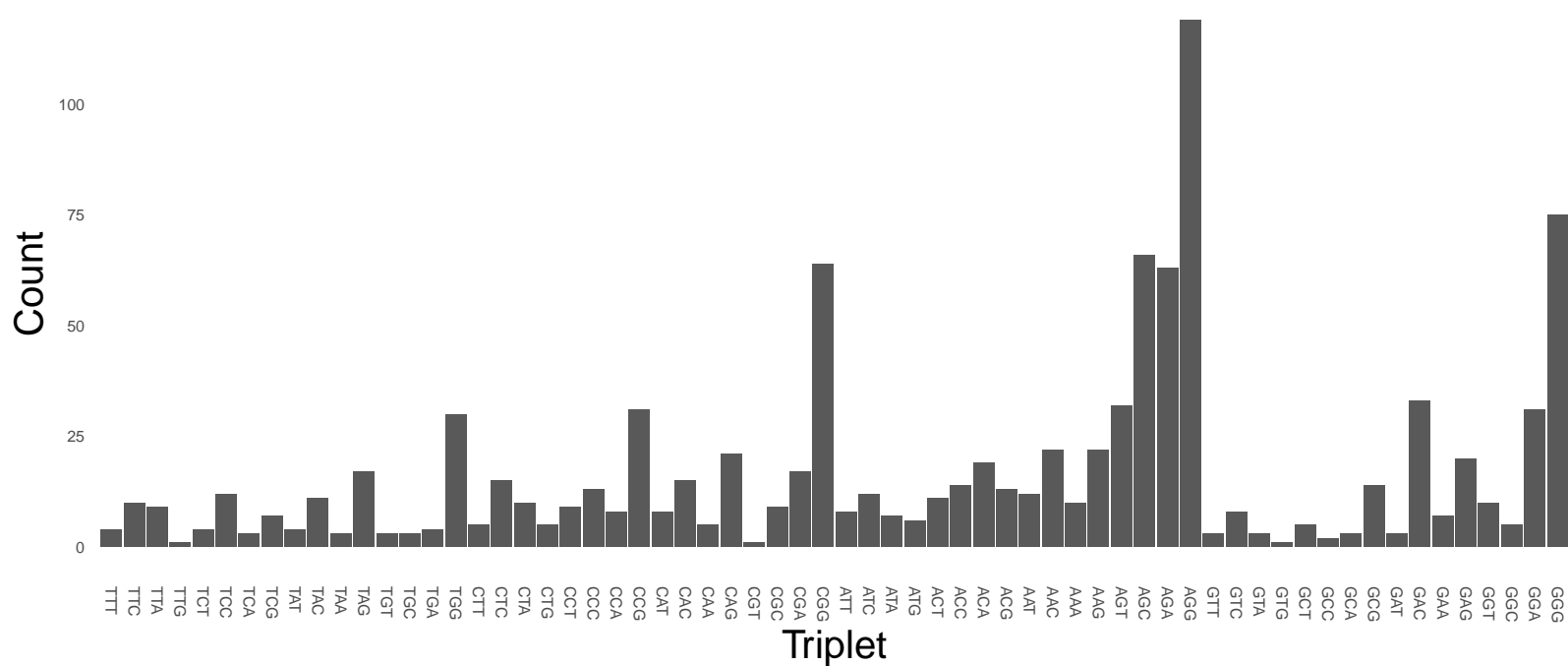
Gene TRBV7-7*ap01_C315T



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

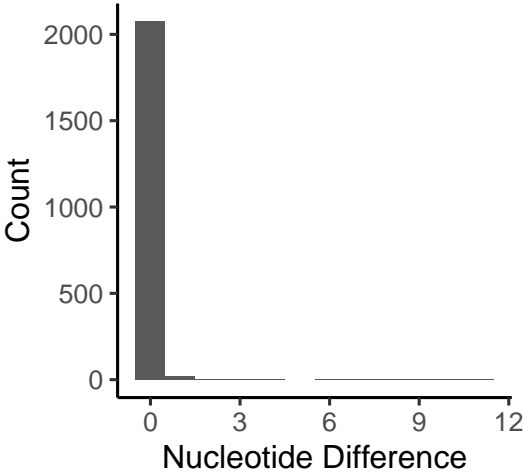


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



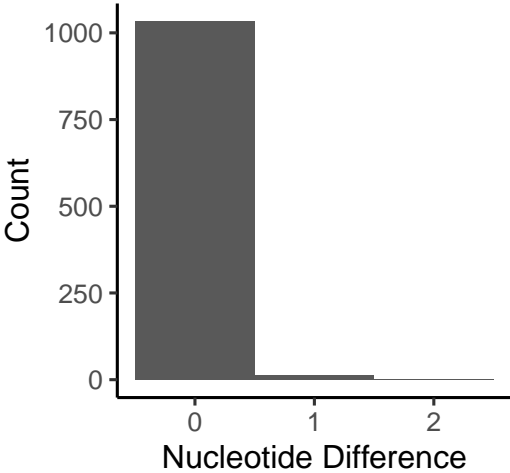
TRBV10-1*ap01

2109 sequences assigned
2075 (98.4%) exact matches, in which:
2031 unique CDR3
13 unique J



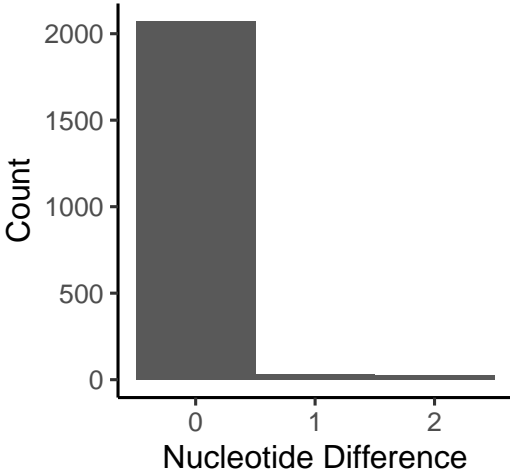
TRBV10-2*ap01

1049 sequences assigned
1033 (98.5%) exact matches, in which:
1010 unique CDR3
13 unique J



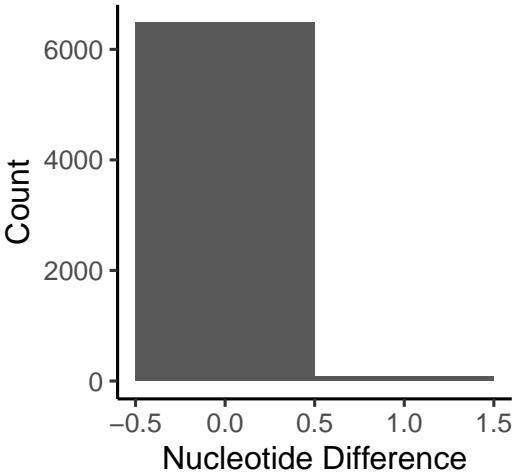
TRBV13*ap01

2129 sequences assigned
2071 (97.3%) exact matches, in which:
2003 unique CDR3
13 unique J



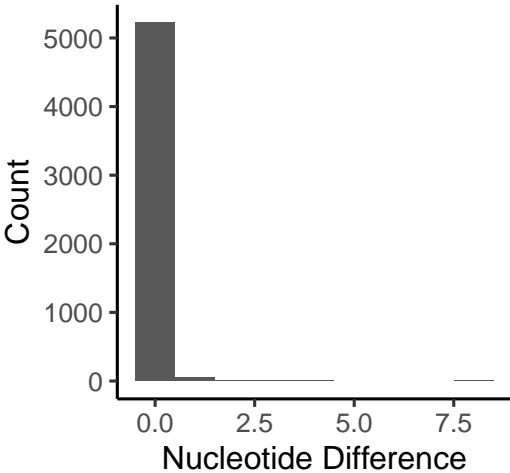
TRBV20-1*ap01

6559 sequences assigned
6482 (98.8%) exact matches, in which:
6375 unique CDR3
13 unique J



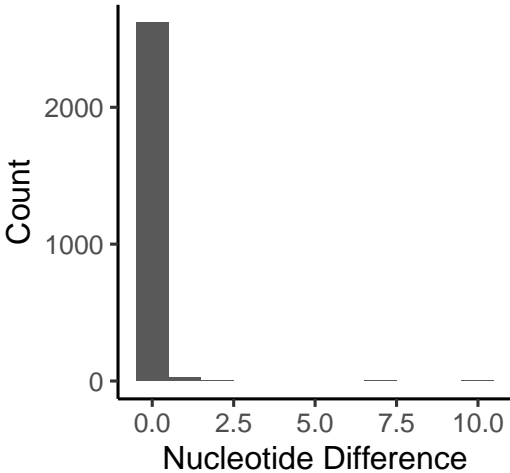
TRBV10-3*ap01

5283 sequences assigned
5222 (98.8%) exact matches, in which:
5094 unique CDR3
13 unique J



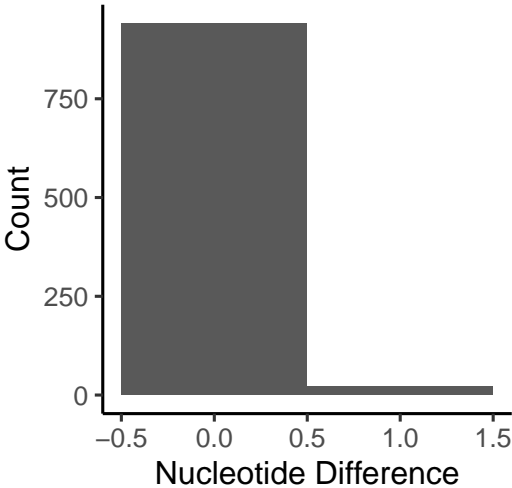
TRBV14*ap01

2648 sequences assigned
2618 (98.9%) exact matches, in which:
2562 unique CDR3
13 unique J



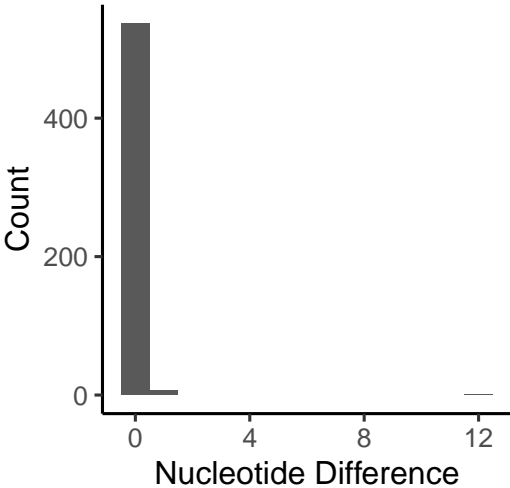
TRBV20-1*ap02

962 sequences assigned
941 (97.8%) exact matches, in which:
922 unique CDR3
13 unique J



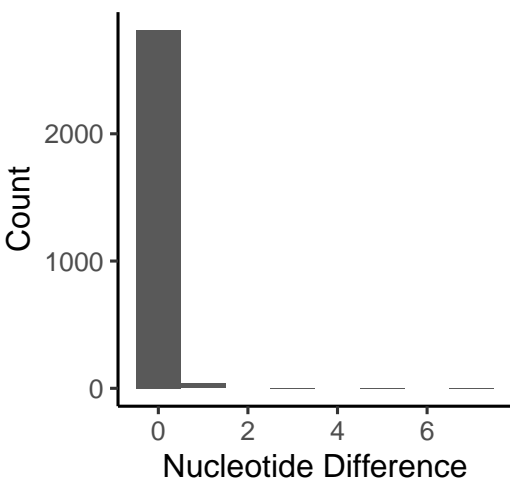
TRBV1*ap01

545 sequences assigned
537 (98.5%) exact matches, in which:
531 unique CDR3
13 unique J



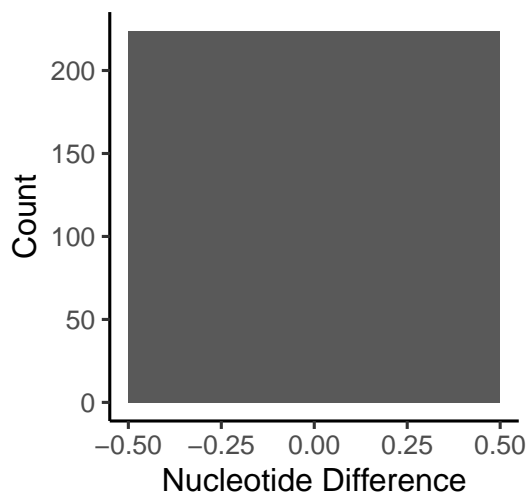
TRBV15*ap02

2856 sequences assigned
2815 (98.6%) exact matches, in which:
2757 unique CDR3
13 unique J



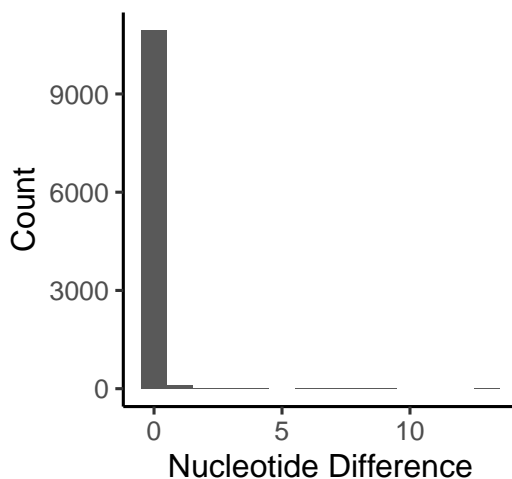
TRBV16*ap01

224 sequences assigned
224 (100%) exact matches, in which:
221 unique CDR3
13 unique J



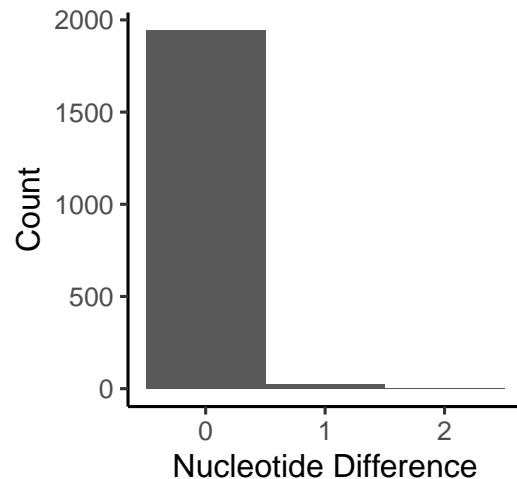
TRBV19*ap01

11058 sequences assigned
10941 (98.9%) exact matches, in which:
10821 unique CDR3
13 unique J



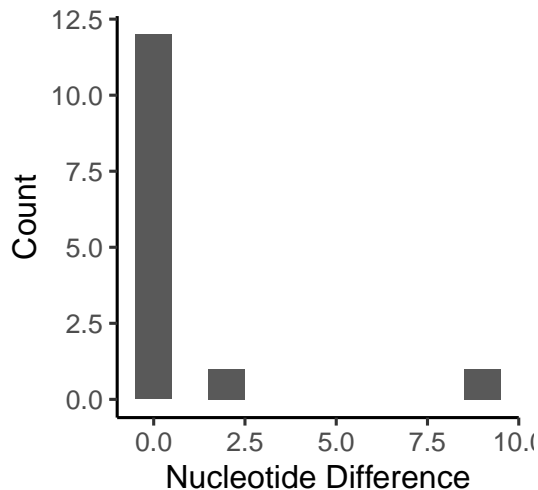
TRBV28*ap01

1967 sequences assigned
1943 (98.8%) exact matches, in which:
1908 unique CDR3
13 unique J



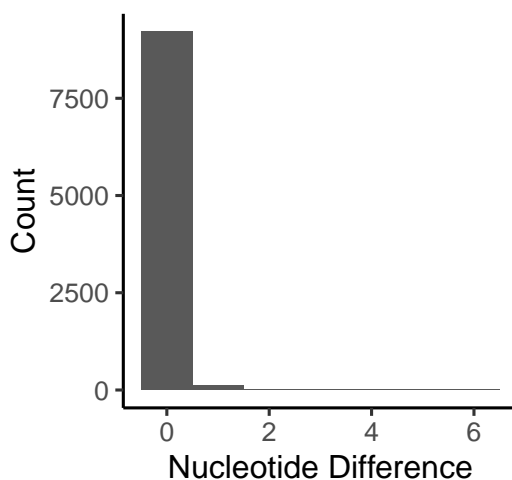
TRBV17*ap01

14 sequences assigned
12 (85.7%) exact matches, in which:
12 unique CDR3
8 unique J



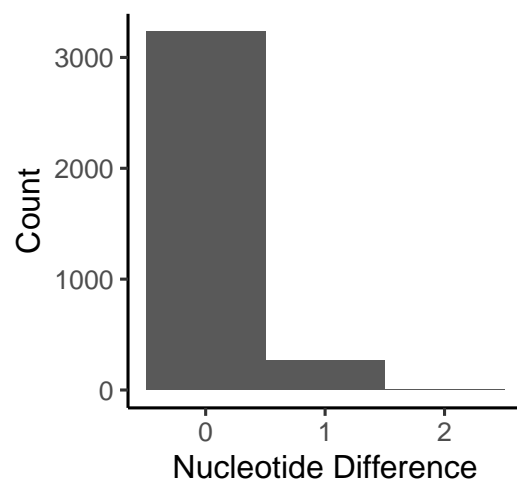
TRBV2*ap01

9349 sequences assigned
9211 (98.5%) exact matches, in which:
9022 unique CDR3
13 unique J



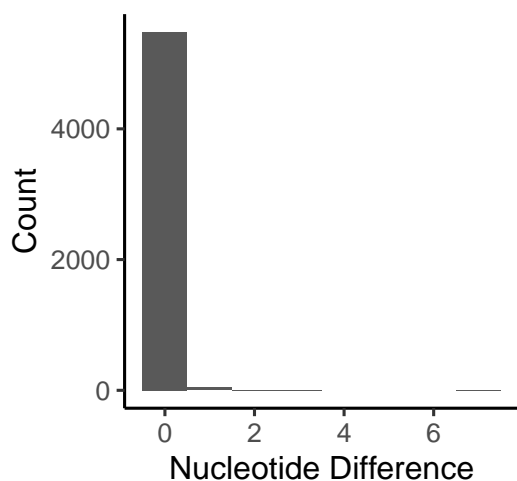
TRBV30*ap01

3498 sequences assigned
3232 (92.4%) exact matches, in which:
3172 unique CDR3
13 unique J



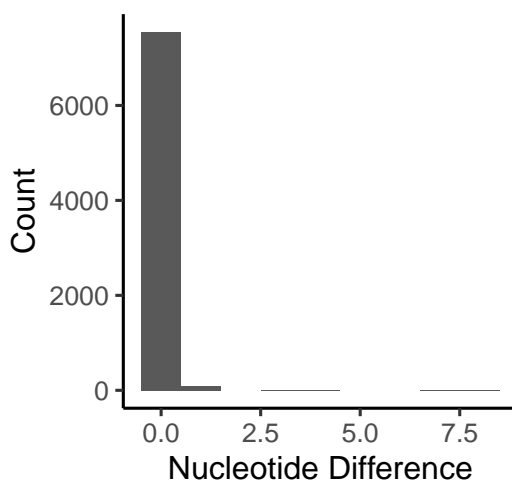
TRBV18*ap01

5529 sequences assigned
5481 (99.1%) exact matches, in which:
5420 unique CDR3
13 unique J



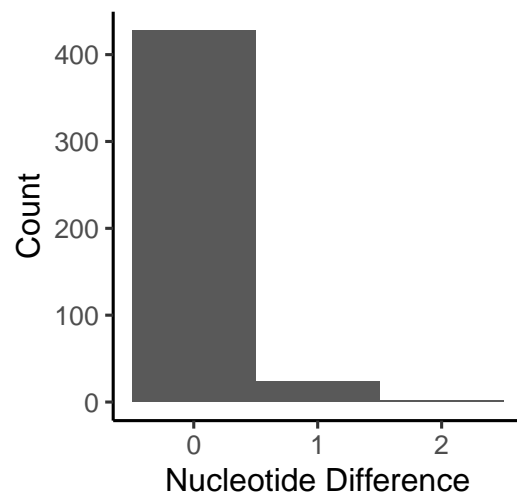
TRBV27*ap01

7653 sequences assigned
7546 (98.6%) exact matches, in which:
7371 unique CDR3
13 unique J



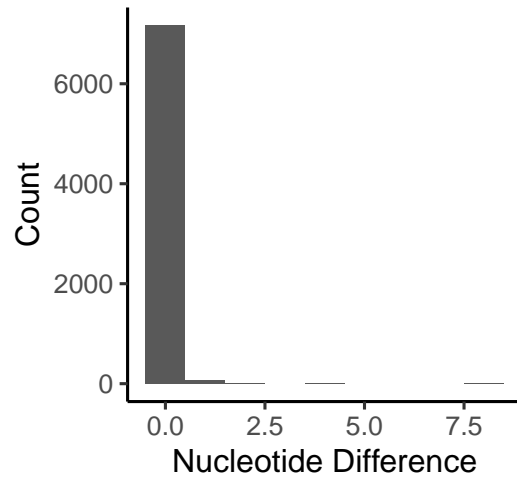
TRBV30*ap03

454 sequences assigned
428 (94.3%) exact matches, in which:
422 unique CDR3
13 unique J



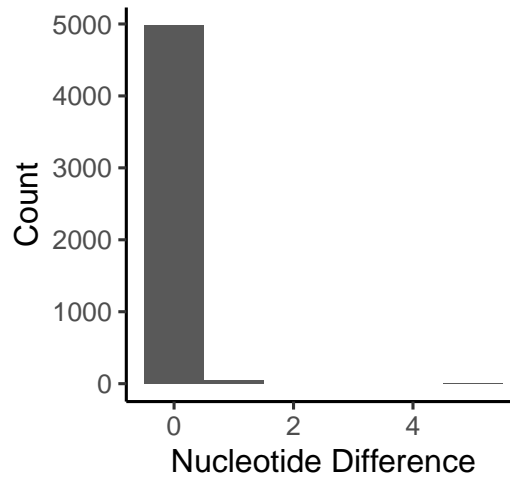
TRBV9*ap01

7251 sequences assigned
7167 (98.8%) exact matches, in which:
7027 unique CDR3
13 unique J



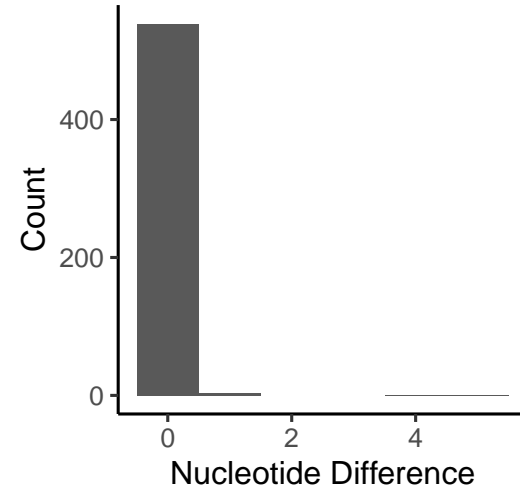
TRBV11-2*ap01

5036 sequences assigned
4980 (98.9%) exact matches, in which:
4877 unique CDR3
13 unique J



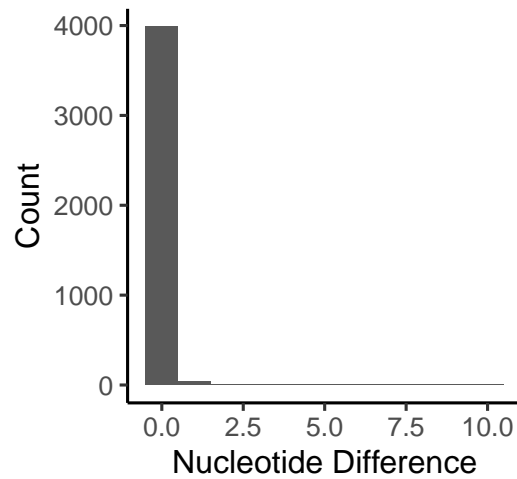
TRBV12-2*ap01

544 sequences assigned
539 (99.1%) exact matches, in which:
527 unique CDR3
13 unique J



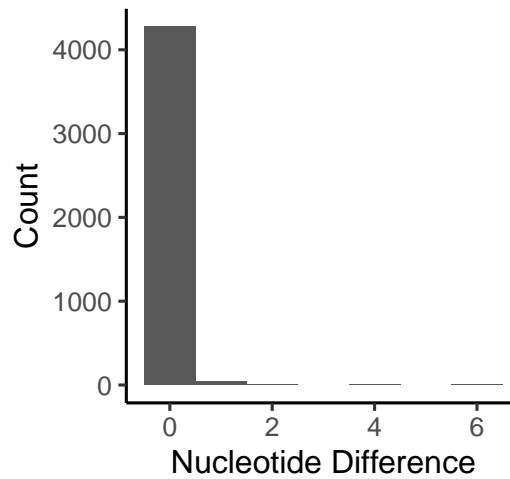
TRBV21-1*ap01

4056 sequences assigned
3987 (98.3%) exact matches, in which:
3915 unique CDR3
13 unique J



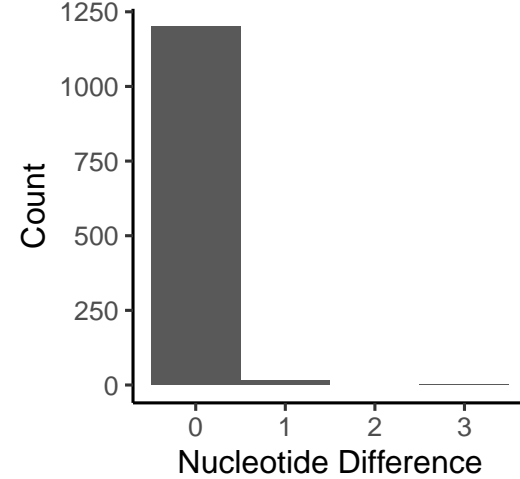
TRBV11-3*ap01

4324 sequences assigned
4275 (98.9%) exact matches, in which:
4186 unique CDR3
13 unique J



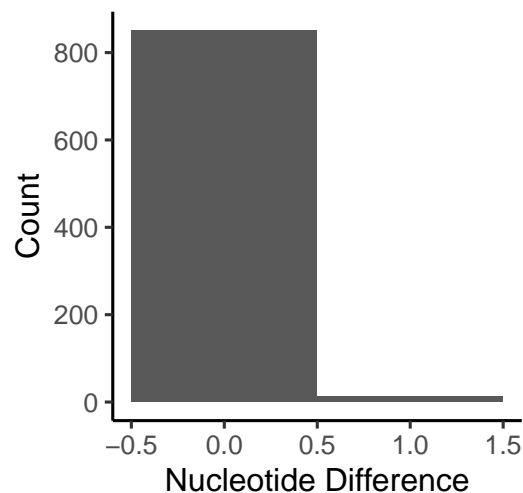
TRBV12-5*ap01

1216 sequences assigned
1200 (98.7%) exact matches, in which:
1187 unique CDR3
13 unique J



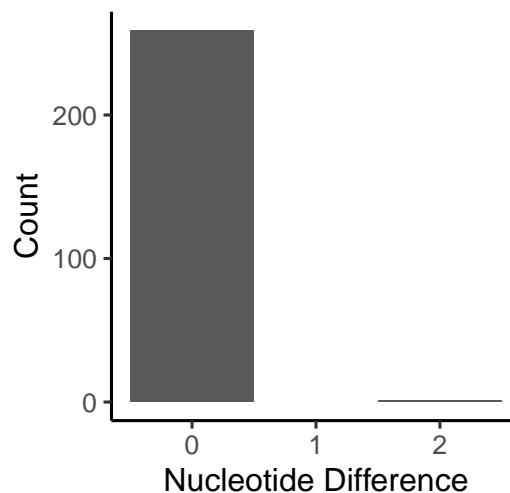
TRBV11-1*ap01

863 sequences assigned
851 (98.6%) exact matches, in which:
836 unique CDR3
13 unique J



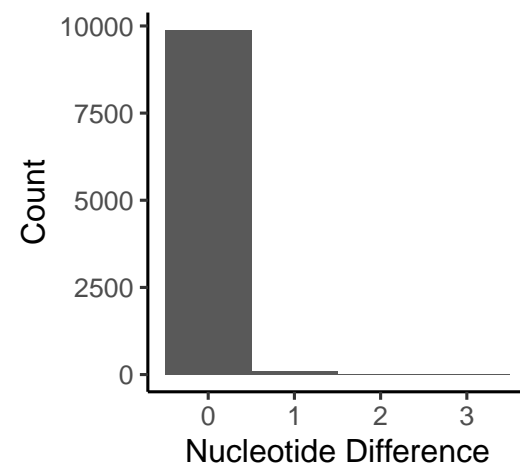
TRBV12-1*ap01

260 sequences assigned
259 (99.6%) exact matches, in which:
250 unique CDR3
13 unique J



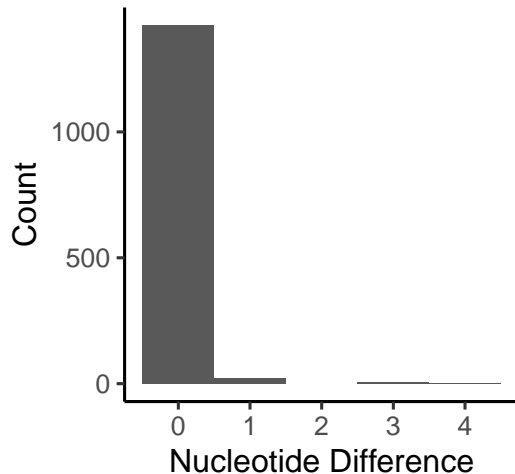
TRBV12-34*ap01

10009 sequences assigned
9890 (98.8%) exact matches, in which:
9692 unique CDR3
13 unique J



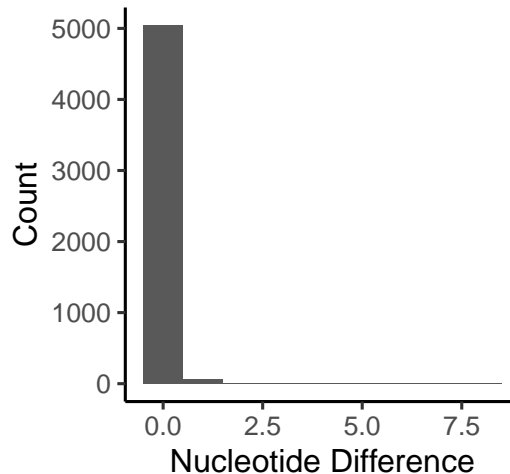
TRBV23-1*ap01

1448 sequences assigned
1423 (98.3%) exact matches, in which:
1401 unique CDR3
13 unique J



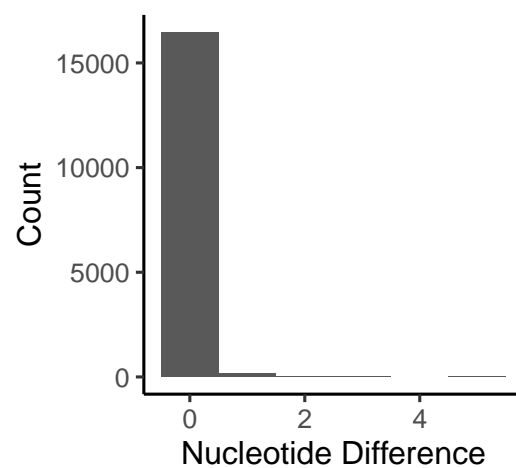
TRBV24-1*ap01

5112 sequences assigned
5042 (98.6%) exact matches, in which:
4959 unique CDR3
13 unique J



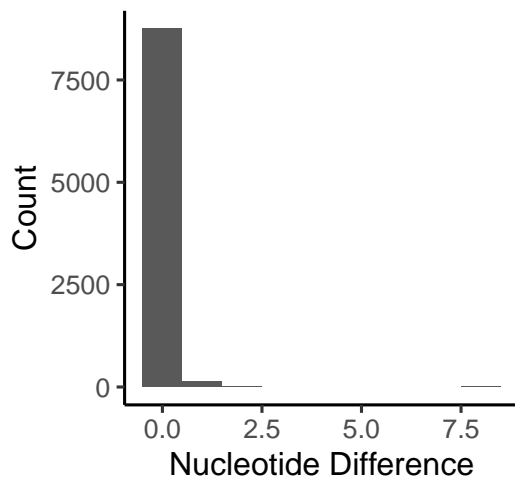
TRBV5-1*ap01

16661 sequences assigned
16470 (98.9%) exact matches, in which:
16064 unique CDR3
13 unique J



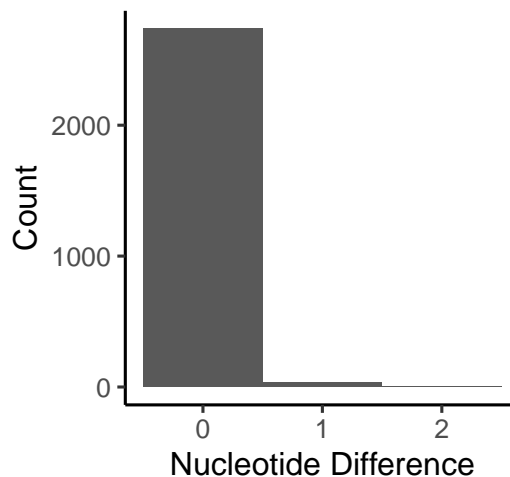
TRBV3-12*ap01

8891 sequences assigned
8751 (98.4%) exact matches, in which:
8601 unique CDR3
13 unique J



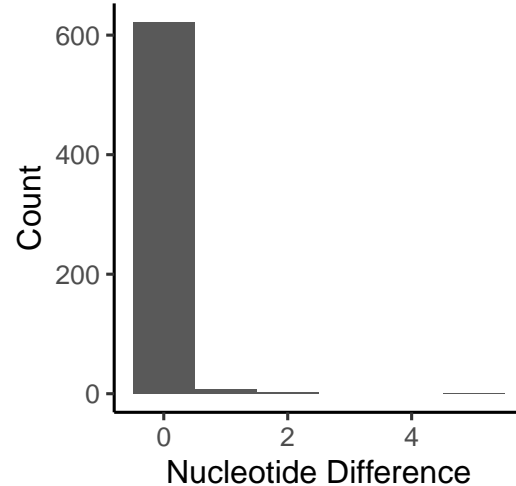
TRBV4-2*ap01

2774 sequences assigned
2737 (98.7%) exact matches, in which:
2690 unique CDR3
13 unique J



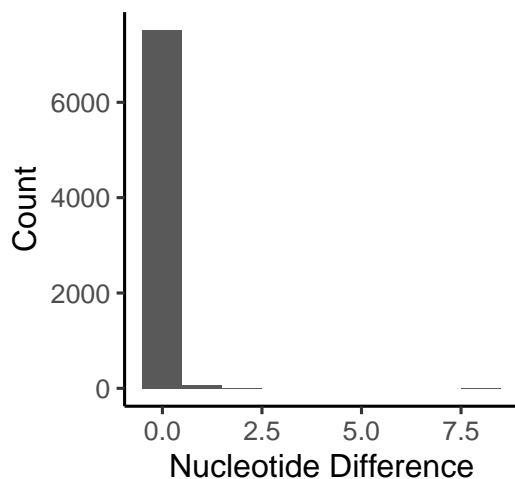
TRBV5-3*ap01

632 sequences assigned
622 (98.4%) exact matches, in which:
612 unique CDR3
13 unique J



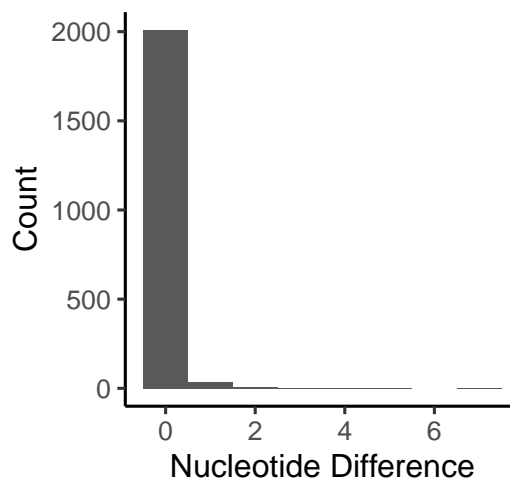
TRBV4-1*ap01

7590 sequences assigned
7516 (99%) exact matches, in which:
7370 unique CDR3
13 unique J



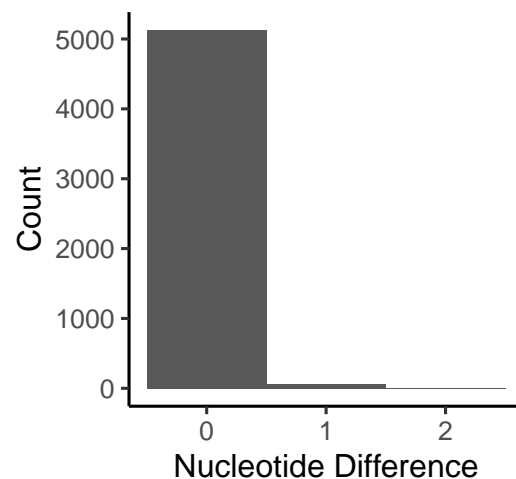
TRBV25-1*ap01

2056 sequences assigned
2009 (97.7%) exact matches, in which:
1985 unique CDR3
13 unique J



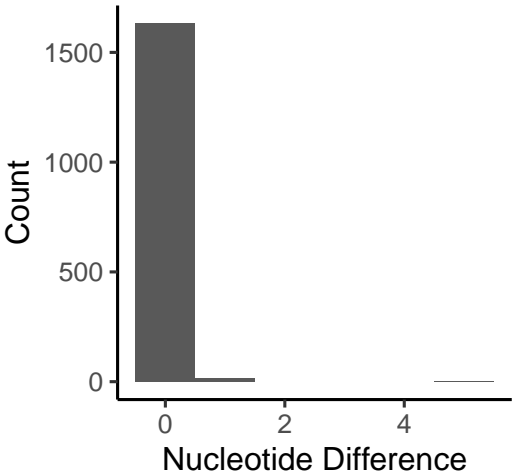
TRBV5-4*ap01

5191 sequences assigned
5128 (98.8%) exact matches, in which:
5011 unique CDR3
13 unique J



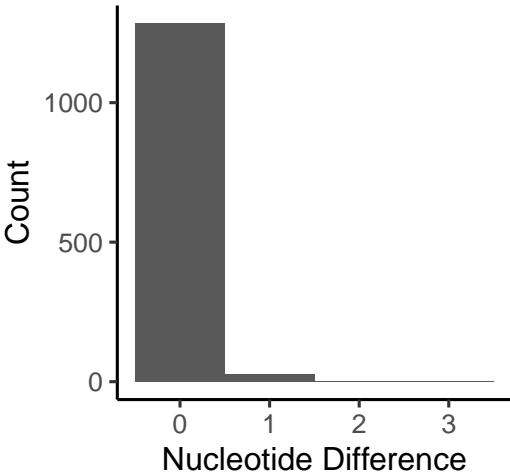
TRBV5-5*ap01

1648 sequences assigned
1632 (99%) exact matches, in which:
1615 unique CDR3
13 unique J



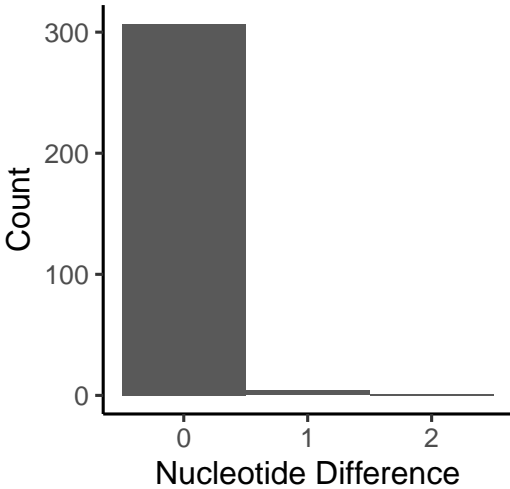
TRBV5-8*ap01

1315 sequences assigned
1284 (97.6%) exact matches, in which:
1257 unique CDR3
13 unique J



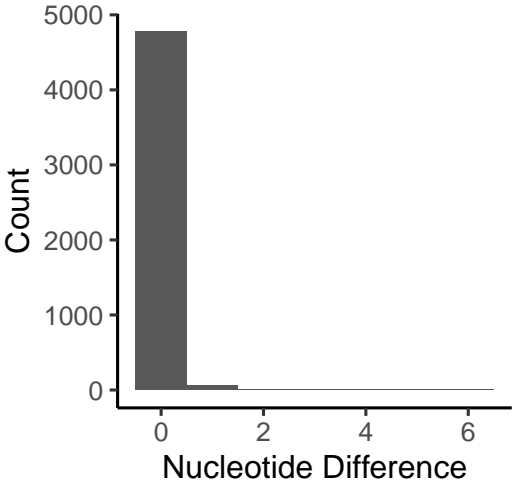
TRBV6-7*ap01

312 sequences assigned
307 (98.4%) exact matches, in which:
300 unique CDR3
13 unique J



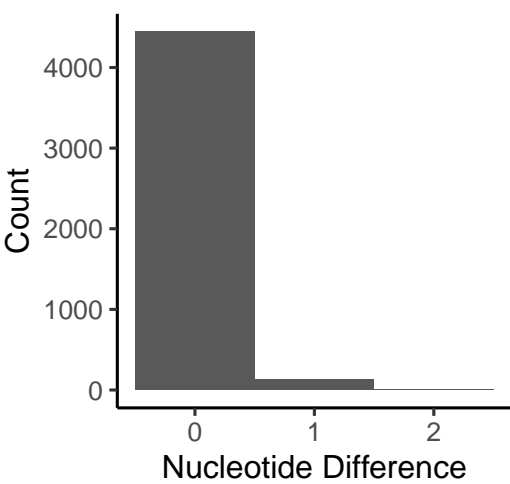
TRBV5-6*ap01

4838 sequences assigned
4775 (98.7%) exact matches, in which:
4651 unique CDR3
13 unique J



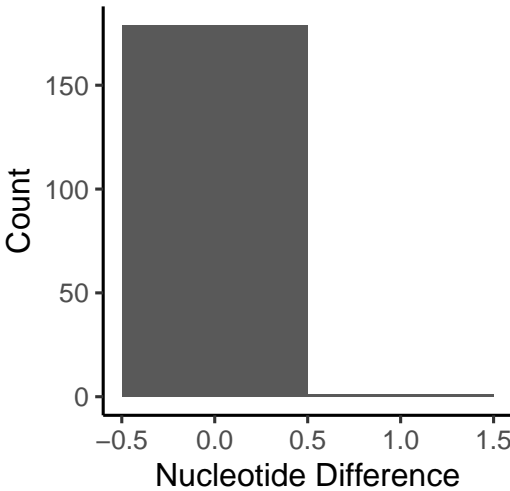
TRBV6-1*ap01

4573 sequences assigned
4444 (97.2%) exact matches, in which:
4350 unique CDR3
13 unique J



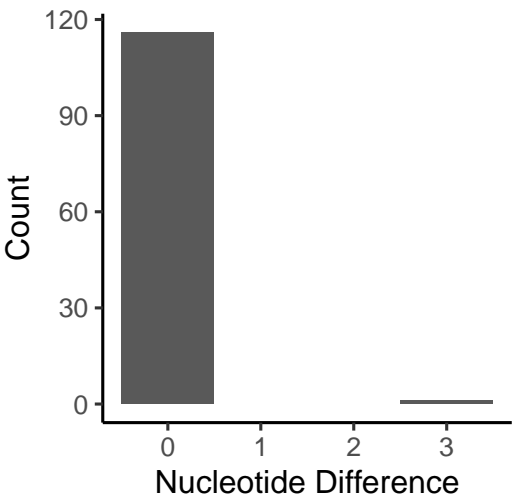
TRBV6-8*ap01

180 sequences assigned
179 (99.4%) exact matches, in which:
174 unique CDR3
13 unique J



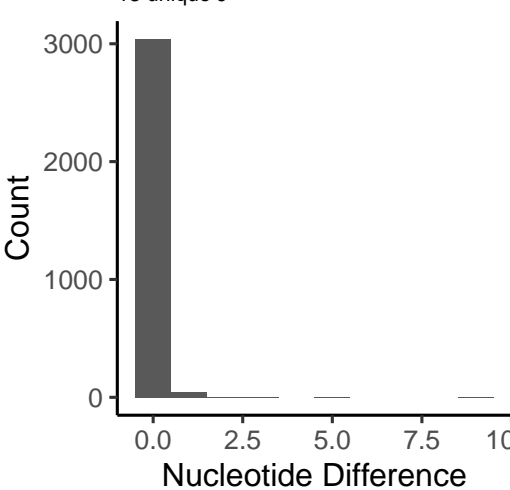
TRBV5-7*ap01

117 sequences assigned
116 (99.1%) exact matches, in which:
115 unique CDR3
13 unique J



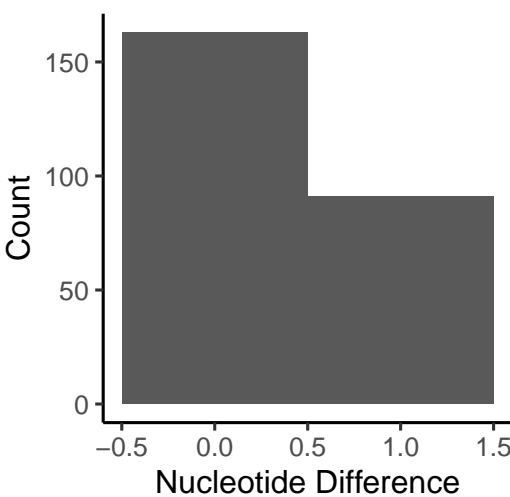
TRBV6-4*ap01

3092 sequences assigned
3040 (98.3%) exact matches, in which:
2979 unique CDR3
13 unique J



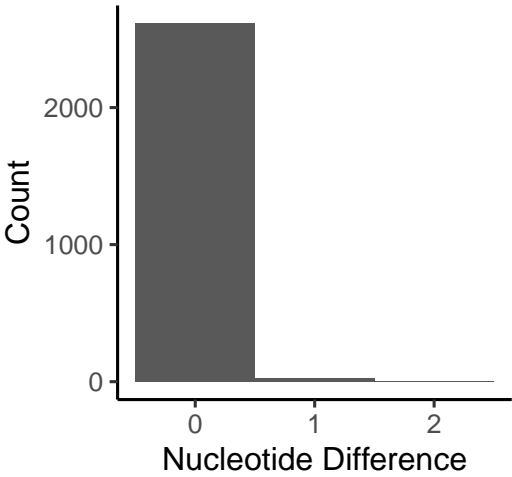
TRBV6-9*ap01

254 sequences assigned
163 (64.2%) exact matches, in which:
160 unique CDR3
13 unique J



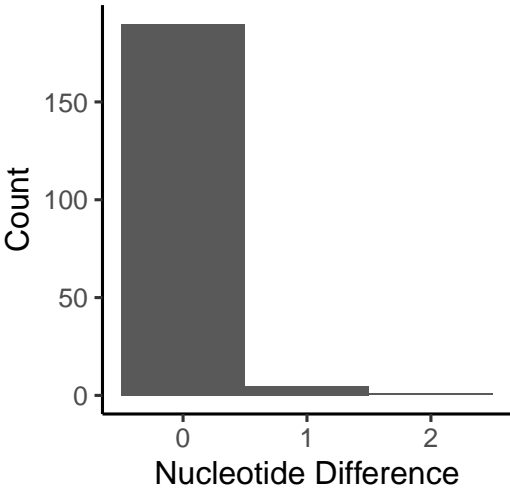
TRBV6-23*ap01

2638 sequences assigned
2614 (99.1%) exact matches, in which:
2555 unique CDR3
13 unique J



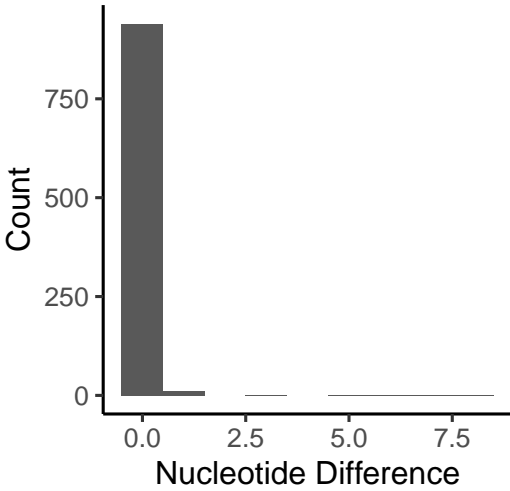
TRBV7-1*ap01_G291C_

196 sequences assigned
190 (96.9%) exact matches, in which:
186 unique CDR3
13 unique J



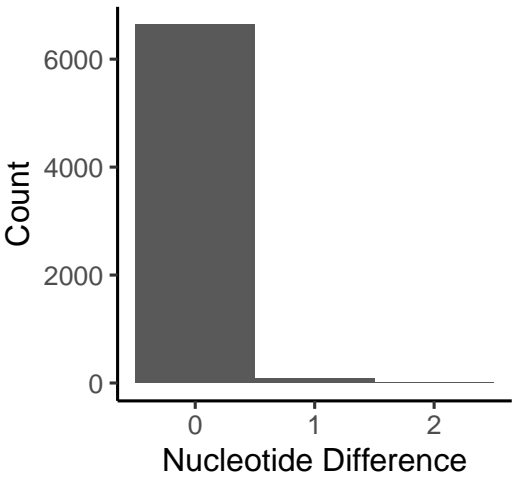
TRBV7-3*ap03

957 sequences assigned
940 (98.2%) exact matches, in which:
914 unique CDR3
13 unique J



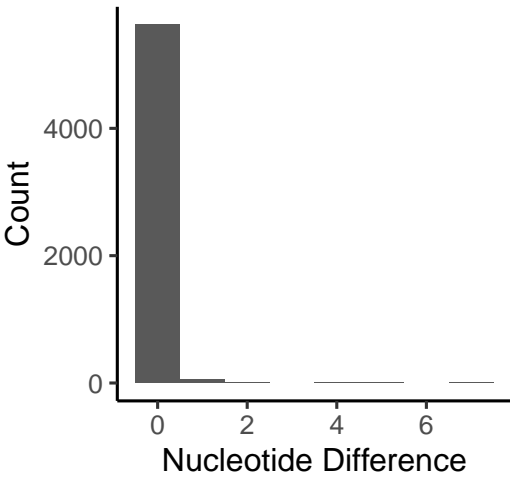
TRBV6-56*ap01

6726 sequences assigned
6638 (98.7%) exact matches, in which:
6473 unique CDR3
13 unique J



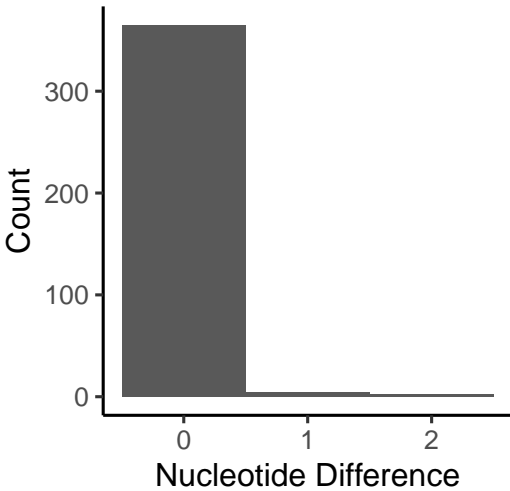
TRBV7-2*ap01

5683 sequences assigned
5628 (99%) exact matches, in which:
5535 unique CDR3
13 unique J



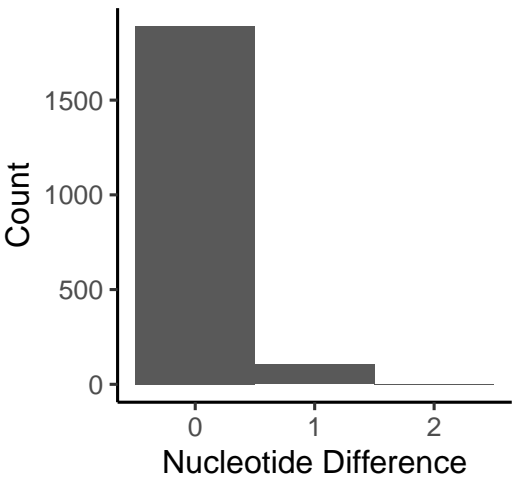
TRBV7-4*ap01

371 sequences assigned
365 (98.4%) exact matches, in which:
358 unique CDR3
13 unique J



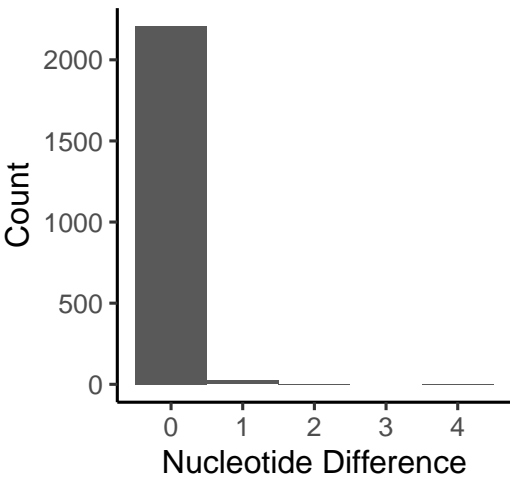
TRBV6-56*ap02

1996 sequences assigned
1891 (94.7%) exact matches, in which:
1844 unique CDR3
13 unique J



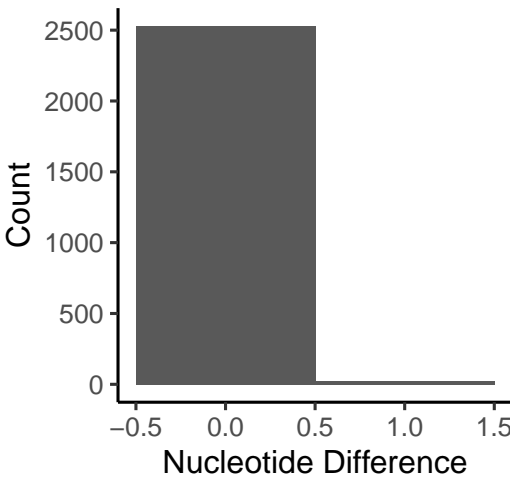
TRBV7-3*ap01

2236 sequences assigned
2208 (98.7%) exact matches, in which:
2168 unique CDR3
13 unique J



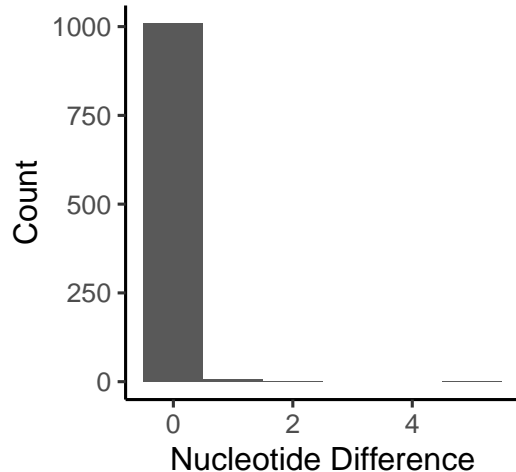
TRBV7-6*ap01

2551 sequences assigned
2529 (99.1%) exact matches, in which:
2468 unique CDR3
13 unique J



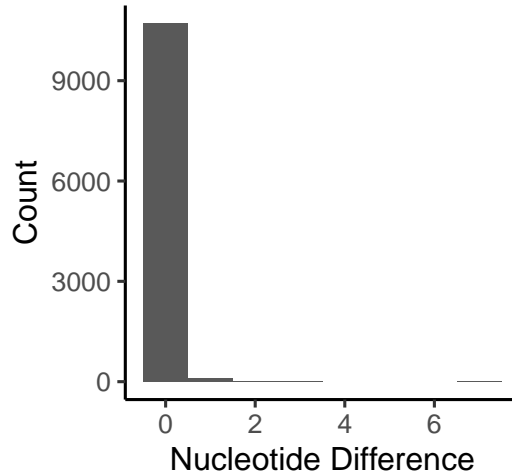
TRBV7-7*ap01_C315T

1020 sequences assigned
1009 (98.9%) exact matches, in which:
985 unique CDR3
13 unique J



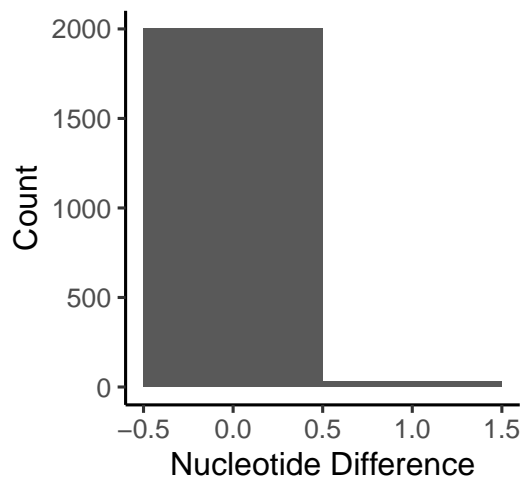
TRBV7-9*ap01

10807 sequences assigned
10713 (99.1%) exact matches, in which:
10509 unique CDR3
13 unique J



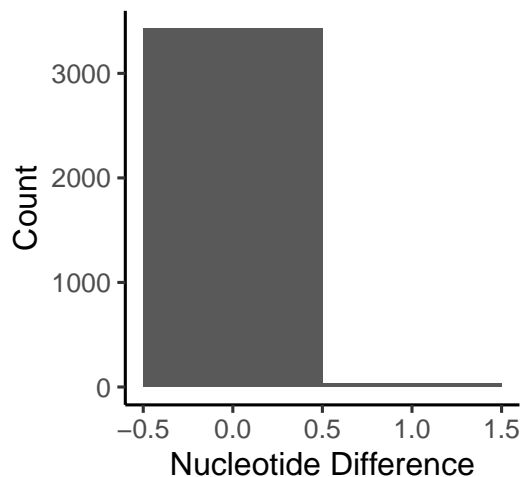
TRBV7-8*ap01

2032 sequences assigned
2001 (98.5%) exact matches, in which:
1967 unique CDR3
13 unique J



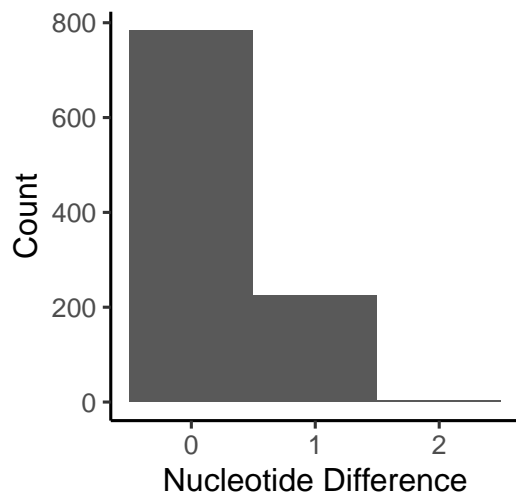
TRBV29-1*ap01

3463 sequences assigned
3427 (99%) exact matches, in which:
3361 unique CDR3
13 unique J



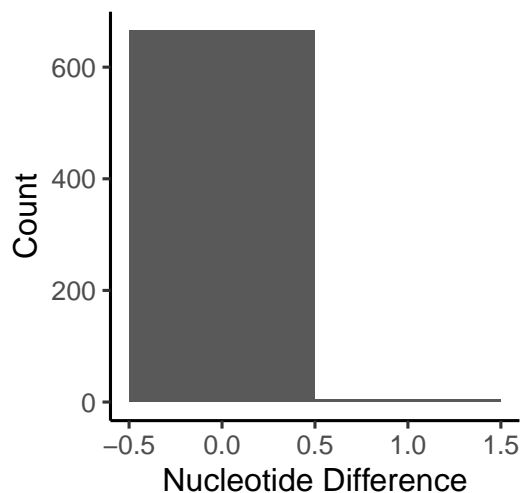
TRBV7-8*ap03

1011 sequences assigned
784 (77.5%) exact matches, in which:
762 unique CDR3
13 unique J

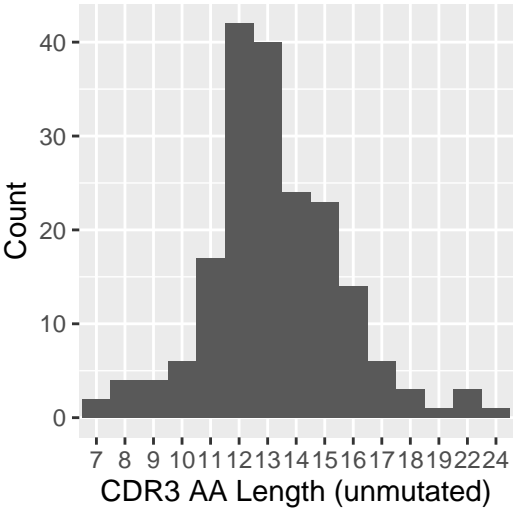


TRBV29-1*ap02

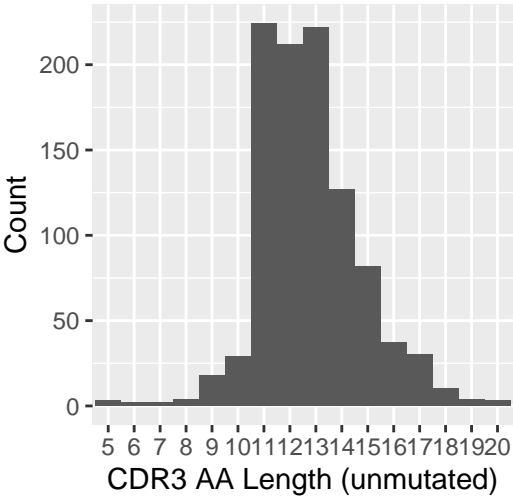
671 sequences assigned
666 (99.3%) exact matches, in which:
660 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]