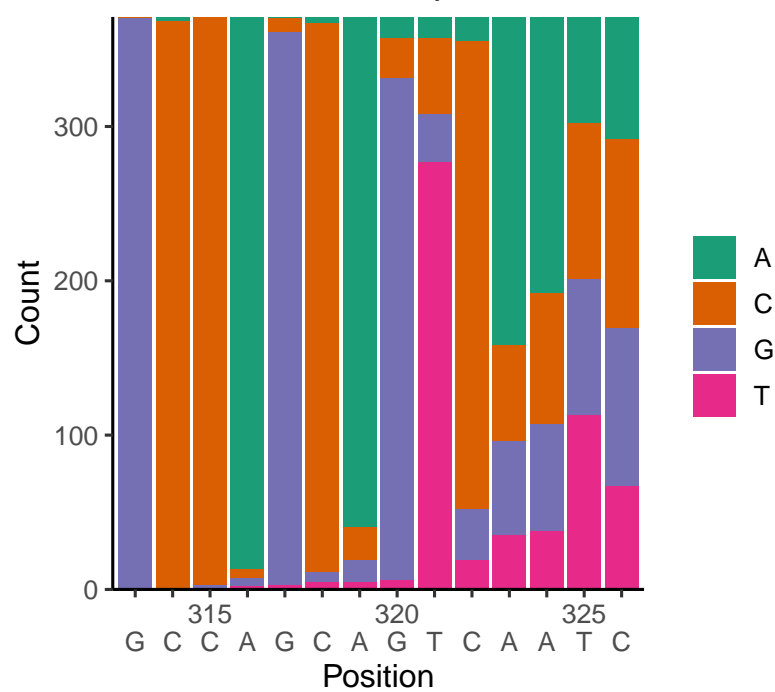
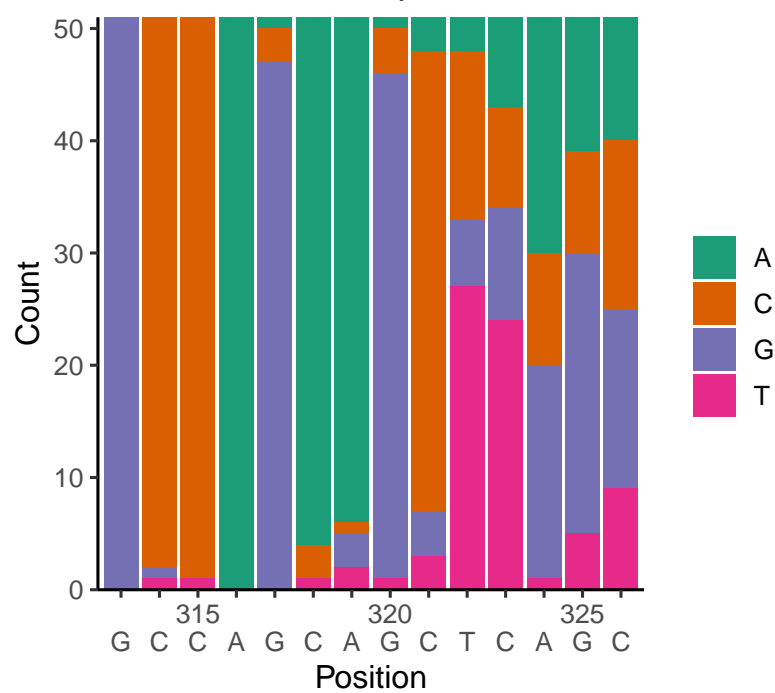


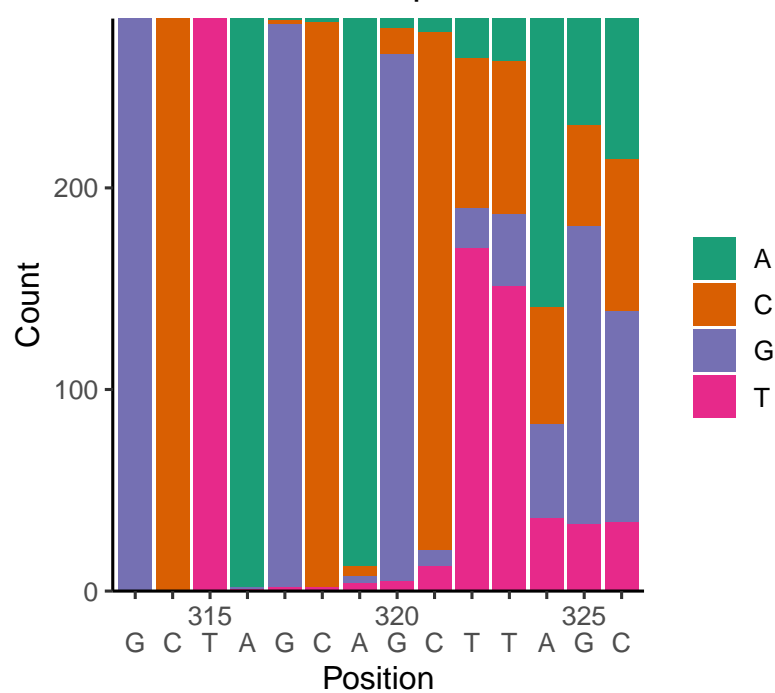
Gene TRBV23-1*ap01_T304C



Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-7*ap01_C315T



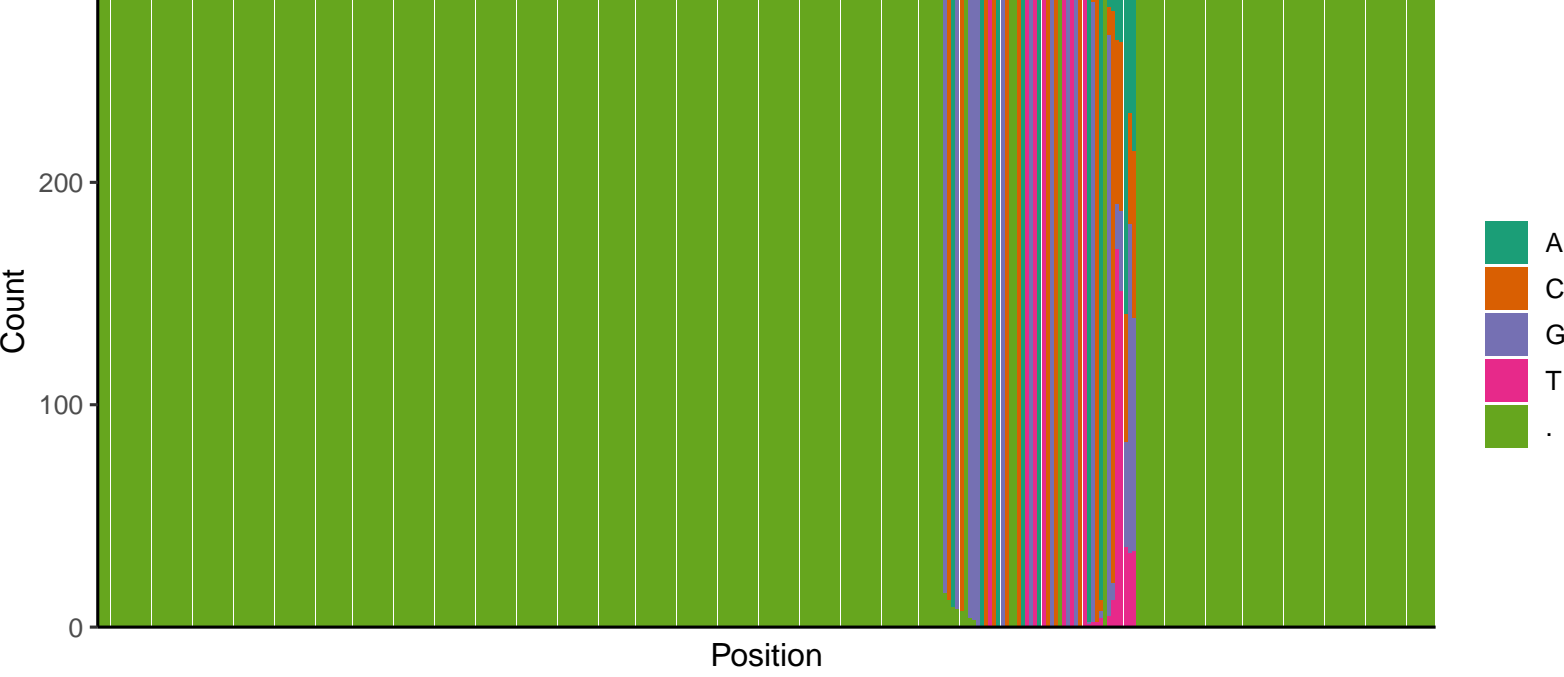
Gene TRBV23-1*ap01_T304C



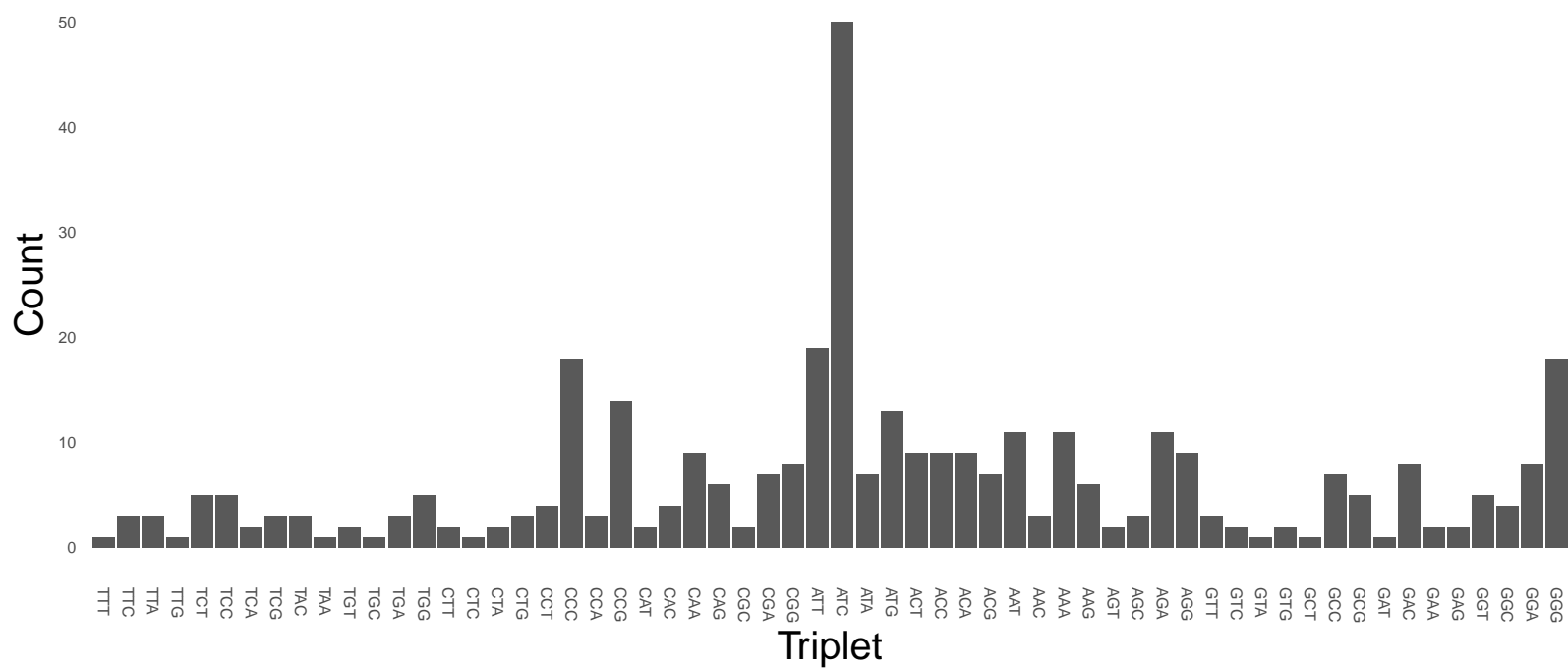
Gene TRBV7-1*ap01_G291C_T296C



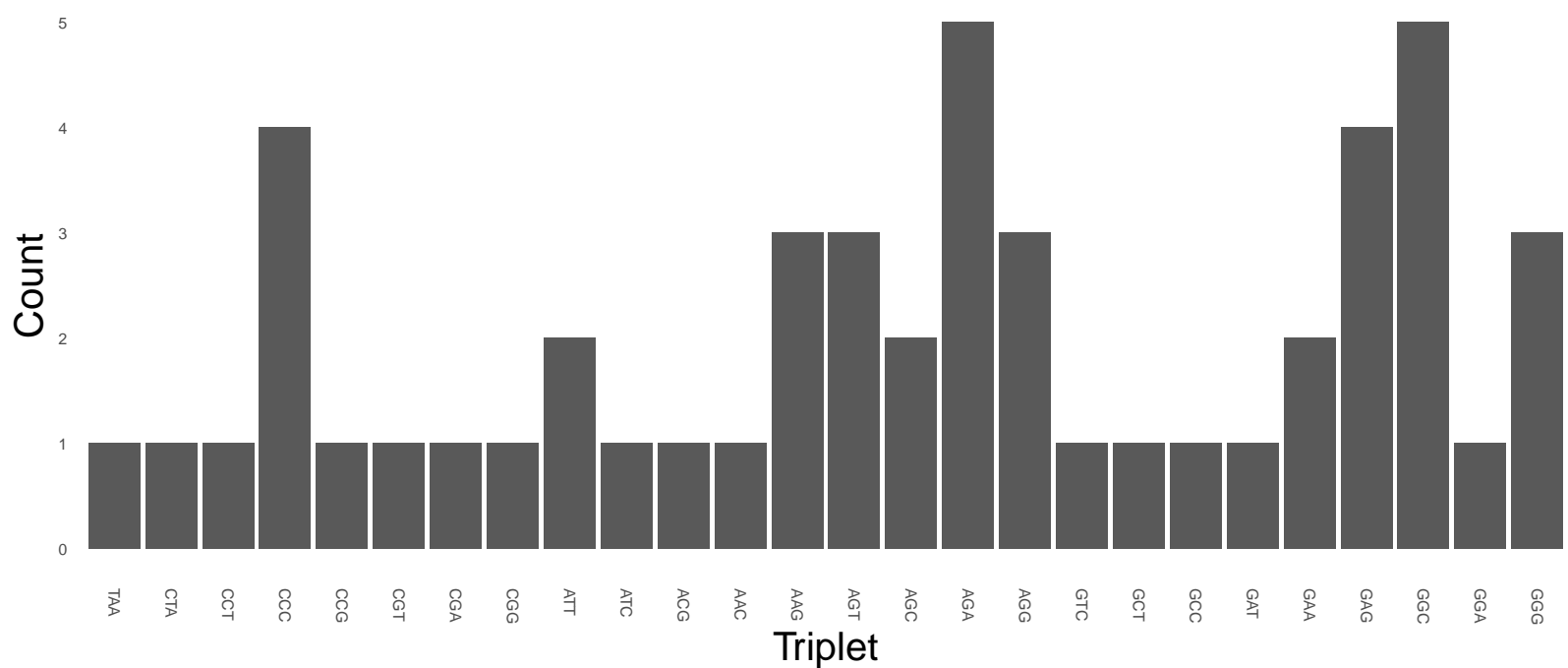
Gene TRBV7-7*ap01_C315T



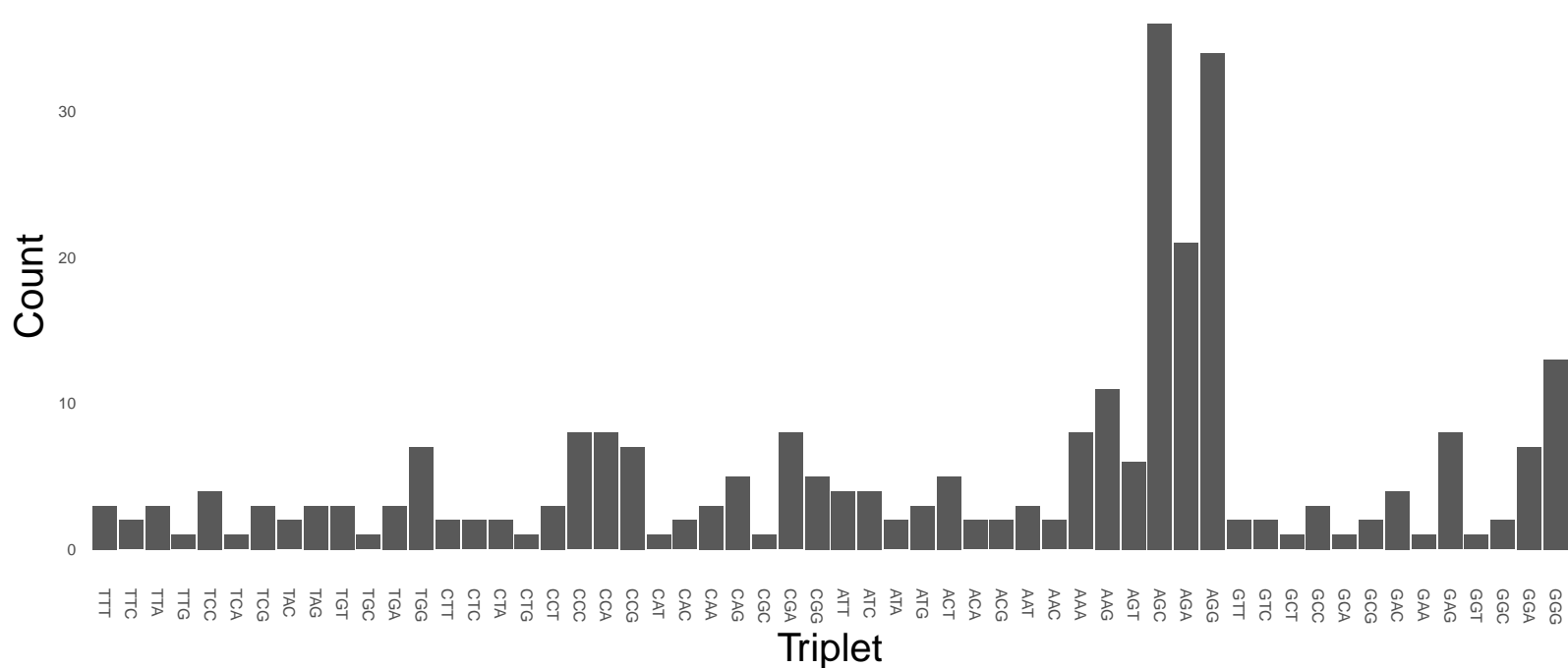
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



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

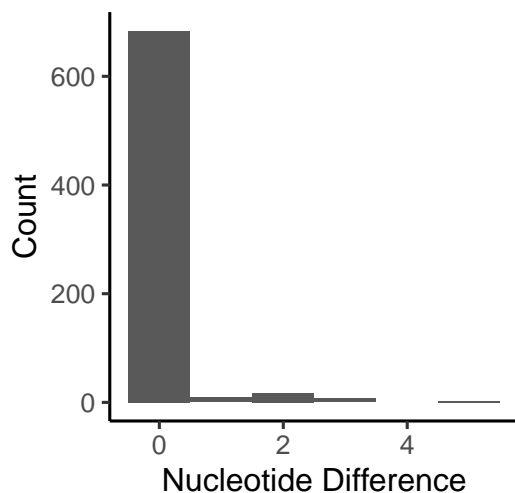


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



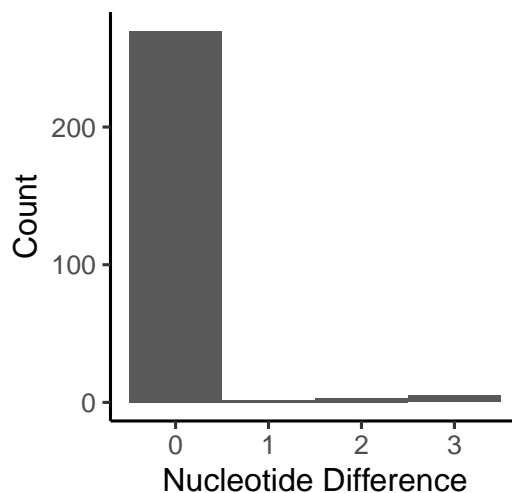
TRBV10–1*ap01

719 sequences assigned
684 (95.1%) exact matches, in which:
674 unique CDR3
13 unique J



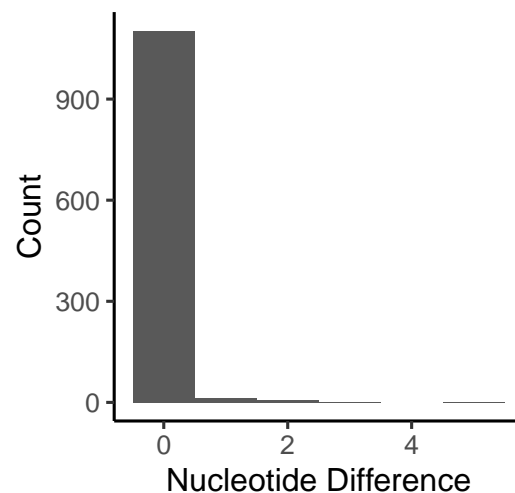
TRBV10–2*ap01

280 sequences assigned
270 (96.4%) exact matches, in which:
267 unique CDR3
13 unique J



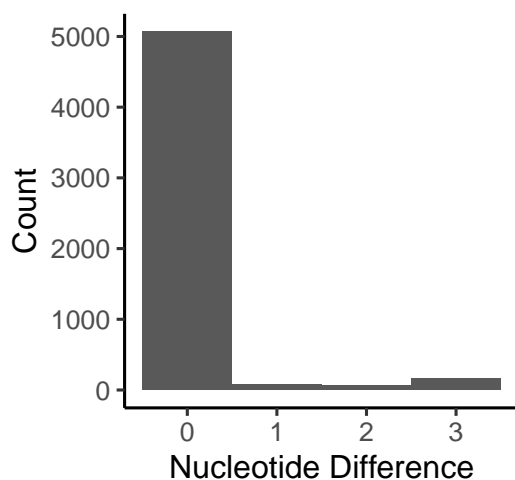
TRBV13*ap01

1128 sequences assigned
1103 (97.8%) exact matches, in which:
1079 unique CDR3
13 unique J



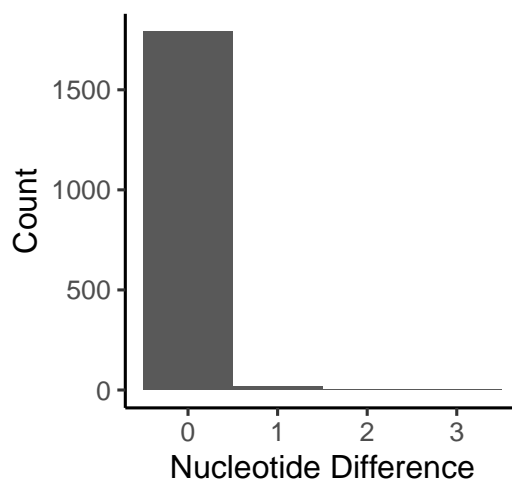
TRBV20–1*ap01

5375 sequences assigned
5067 (94.3%) exact matches, in which:
4962 unique CDR3
13 unique J



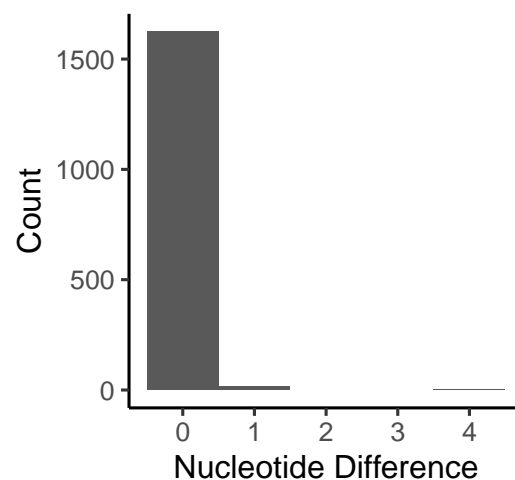
TRBV10–3*ap01

1811 sequences assigned
1790 (98.8%) exact matches, in which:
1765 unique CDR3
13 unique J



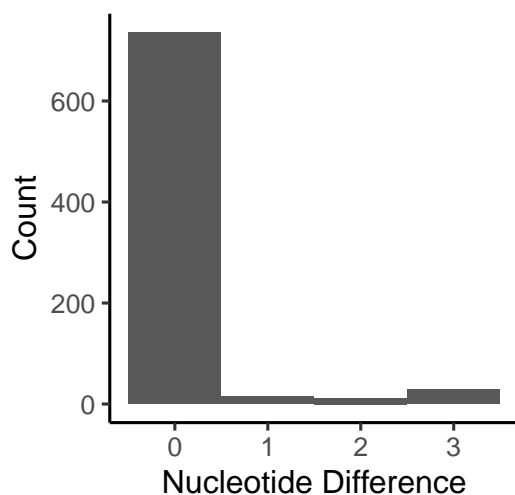
TRBV14*ap01

1640 sequences assigned
1624 (99%) exact matches, in which:
1599 unique CDR3
13 unique J



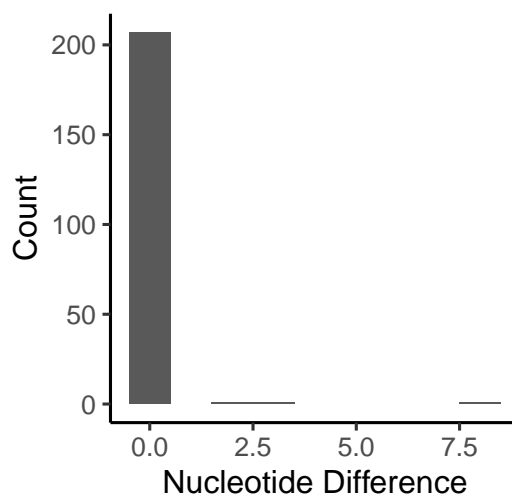
TRBV20–1*ap02

792 sequences assigned
736 (92.9%) exact matches, in which:
713 unique CDR3
13 unique J



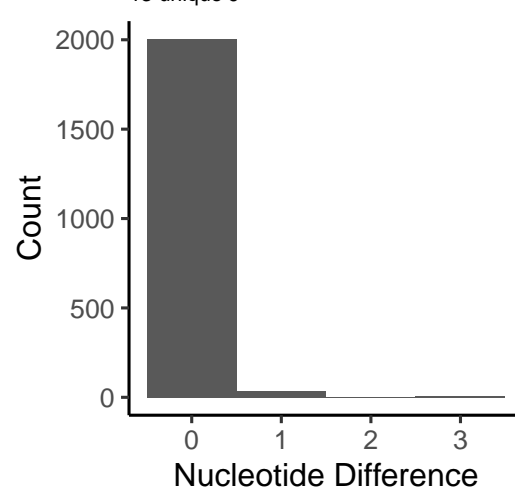
TRBV1*ap01

210 sequences assigned
207 (98.6%) exact matches, in which:
203 unique CDR3
12 unique J



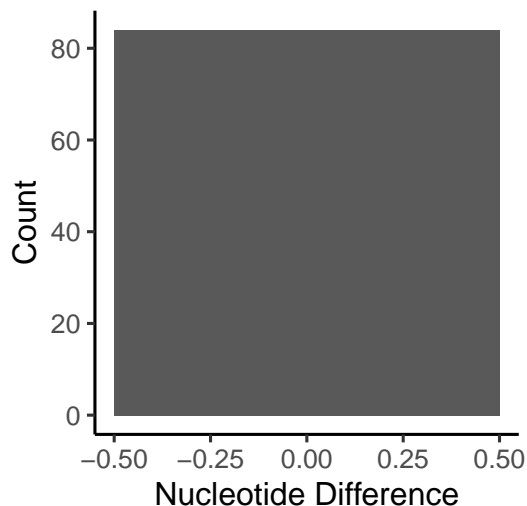
TRBV15*ap02

2048 sequences assigned
2004 (97.9%) exact matches, in which:
1969 unique CDR3
13 unique J



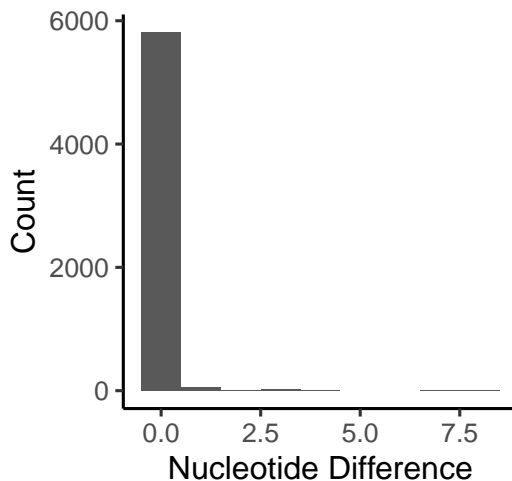
TRBV16*ap01

84 sequences assigned
84 (100%) exact matches, in which:
84 unique CDR3
10 unique J



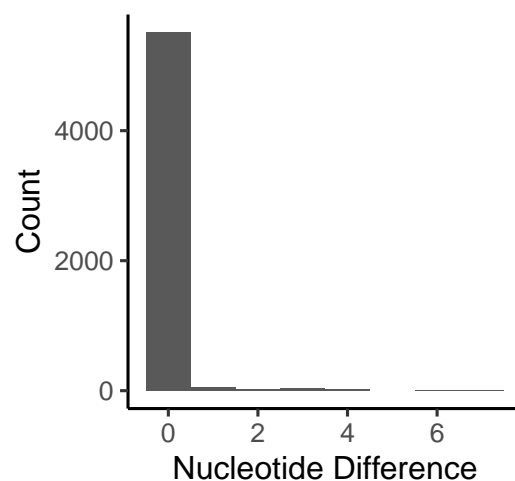
TRBV19*ap01

5913 sequences assigned
5811 (98.3%) exact matches, in which:
5742 unique CDR3
13 unique J



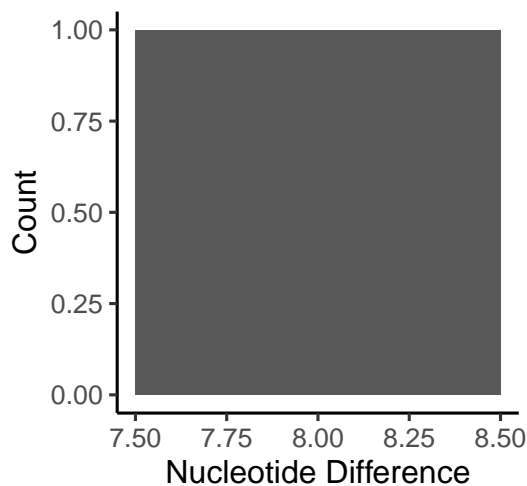
TRBV27*ap01

5660 sequences assigned
5512 (97.4%) exact matches, in which:
5430 unique CDR3
13 unique J



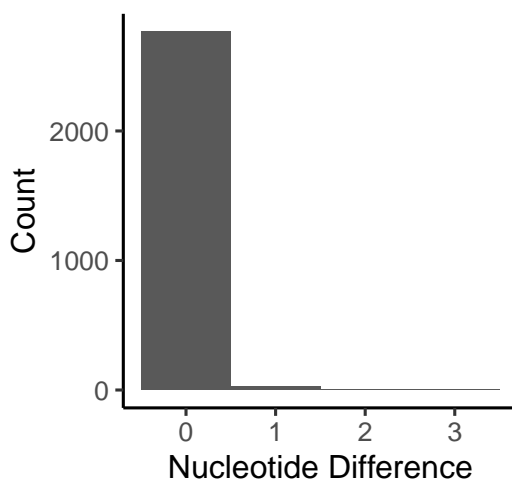
TRBV17*ap01

1 sequences assigned
No exact matches.



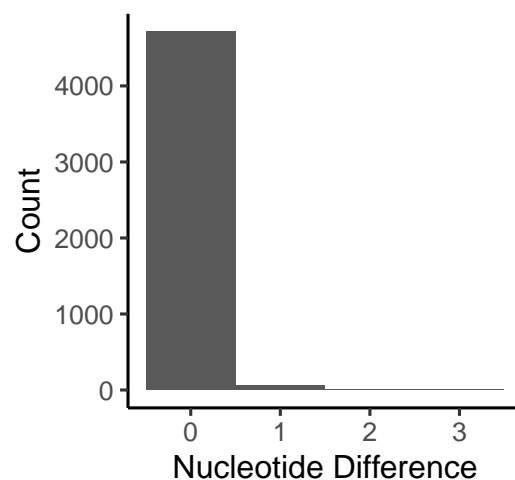
TRBV2*ap01

2801 sequences assigned
2766 (98.8%) exact matches, in which:
2719 unique CDR3
13 unique J



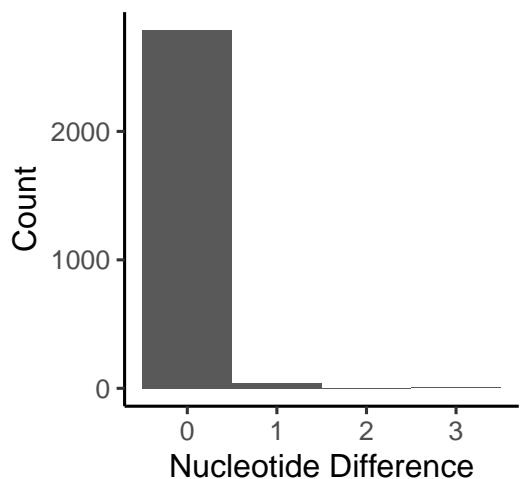
TRBV28*ap01

4784 sequences assigned
4713 (98.5%) exact matches, in which:
4630 unique CDR3
13 unique J



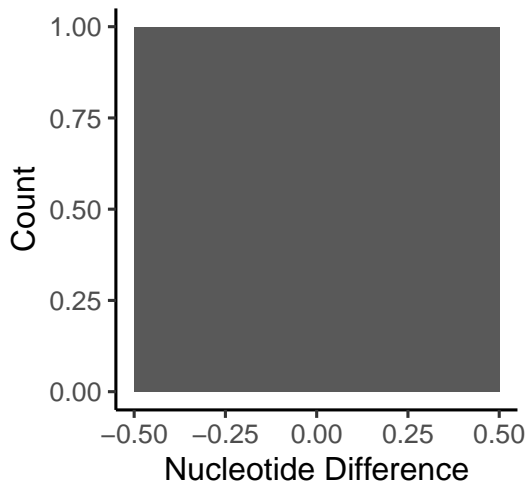
TRBV18*ap01

2838 sequences assigned
2789 (98.3%) exact matches, in which:
2735 unique CDR3
13 unique J



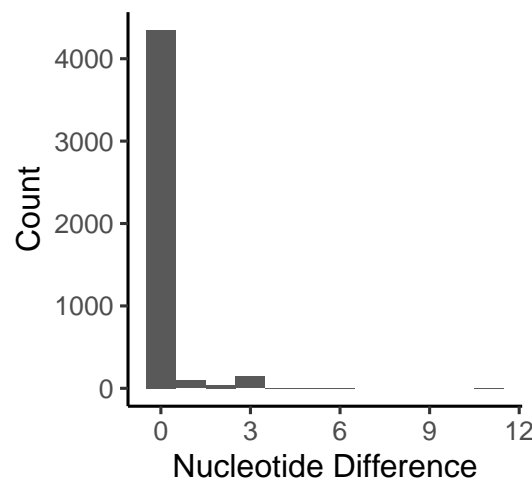
TRBV26*ap01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



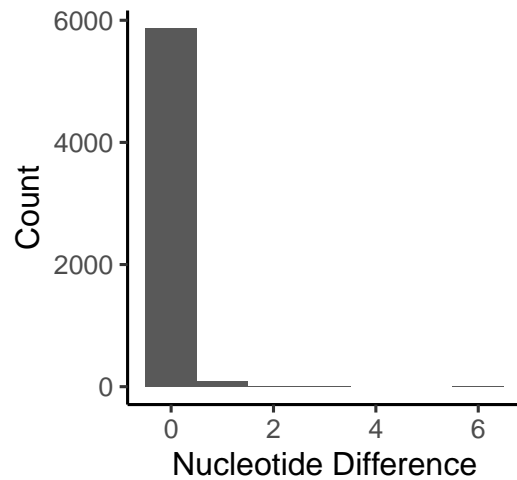
TRBV30*ap01

4632 sequences assigned
4348 (93.9%) exact matches, in which:
4255 unique CDR3
13 unique J



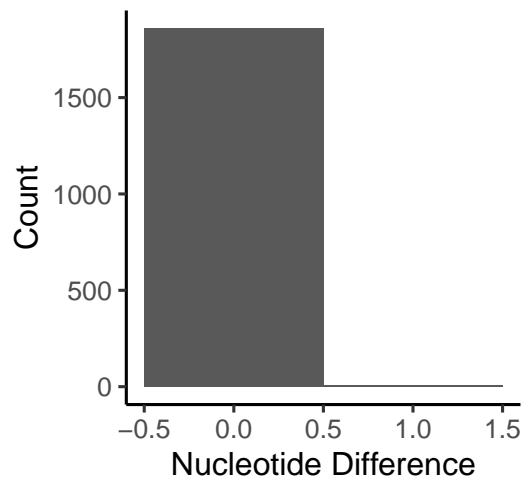
TRBV9*ap01

5958 sequences assigned
5867 (98.5%) exact matches, in which:
5743 unique CDR3
13 unique J



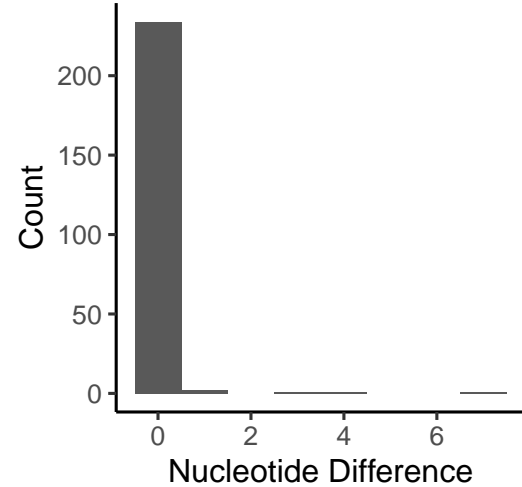
TRBV11-2*ap01

1866 sequences assigned
1859 (99.6%) exact matches, in which:
1835 unique CDR3
13 unique J



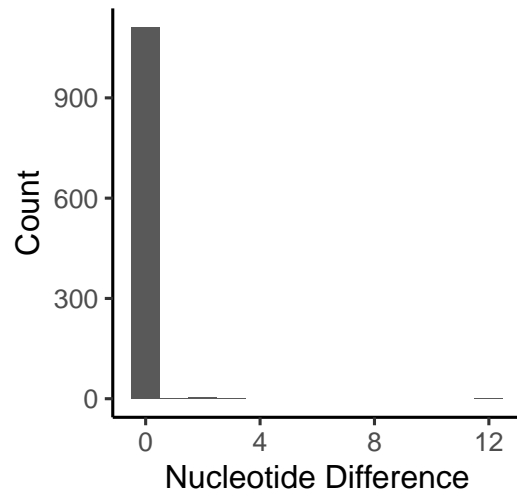
TRBV12-2*ap01

239 sequences assigned
234 (97.9%) exact matches, in which:
232 unique CDR3
13 unique J



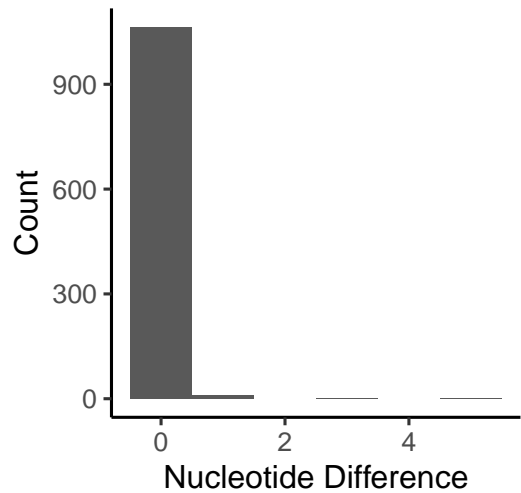
TRBV21-1*ap01

1119 sequences assigned
1112 (99.4%) exact matches, in which:
1109 unique CDR3
13 unique J



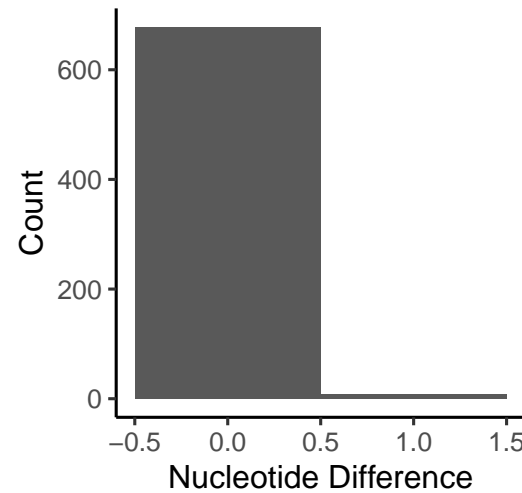
TRBV11-3*ap01

1077 sequences assigned
1064 (98.8%) exact matches, in which:
1052 unique CDR3
13 unique J



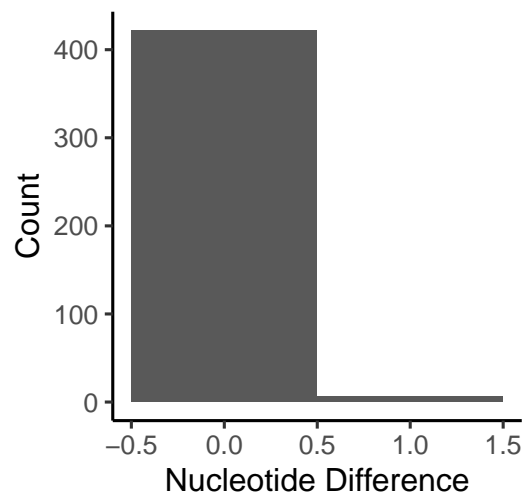
TRBV12-5*ap01

686 sequences assigned
678 (98.8%) exact matches, in which:
673 unique CDR3
13 unique J



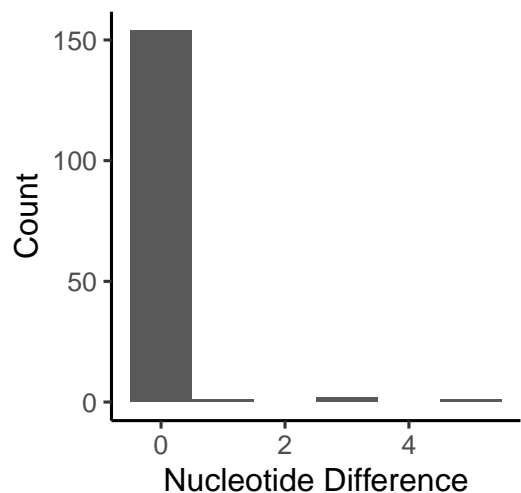
TRBV11-1*ap01

428 sequences assigned
422 (98.6%) exact matches, in which:
412 unique CDR3
13 unique J



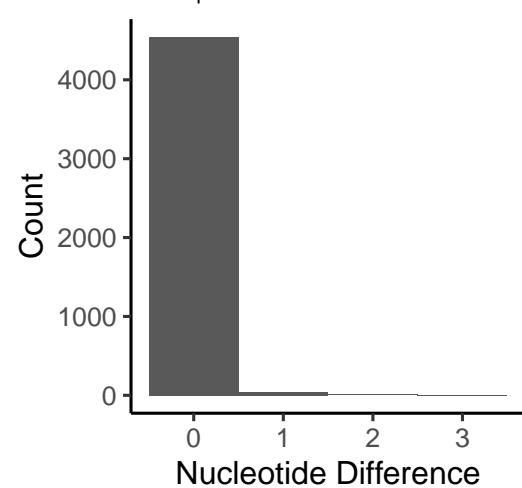
TRBV12-1*ap01

158 sequences assigned
154 (97.5%) exact matches, in which:
153 unique CDR3
12 unique J



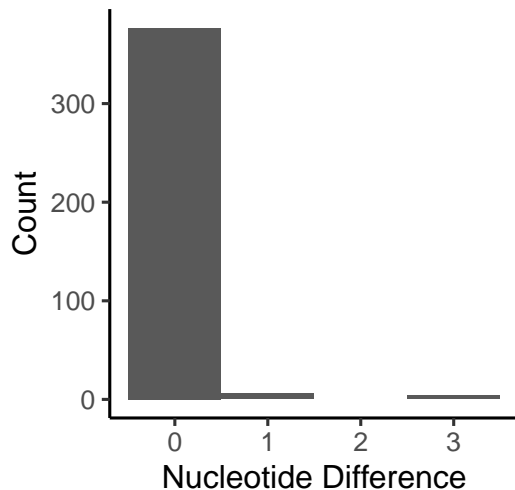
TRBV12-34*ap01

4597 sequences assigned
4542 (98.8%) exact matches, in which:
4467 unique CDR3
13 unique J



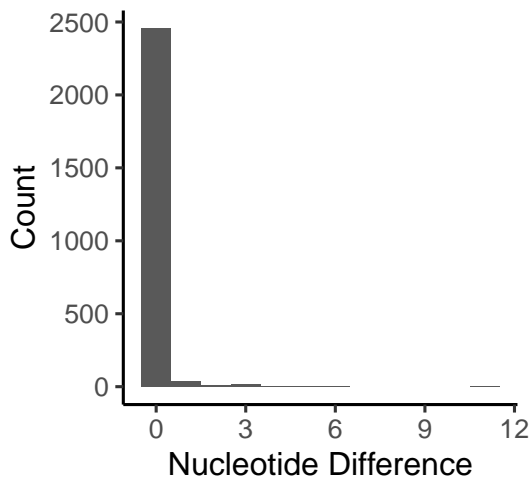
TRBV23–1*ap01

387 sequences assigned
377 (97.4%) exact matches, in which:
374 unique CDR3
13 unique J



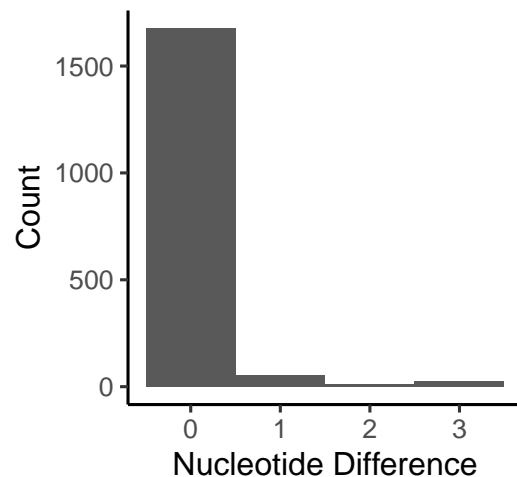
TRBV24–1*ap01

2520 sequences assigned
2456 (97.5%) exact matches, in which:
2405 unique CDR3
13 unique J



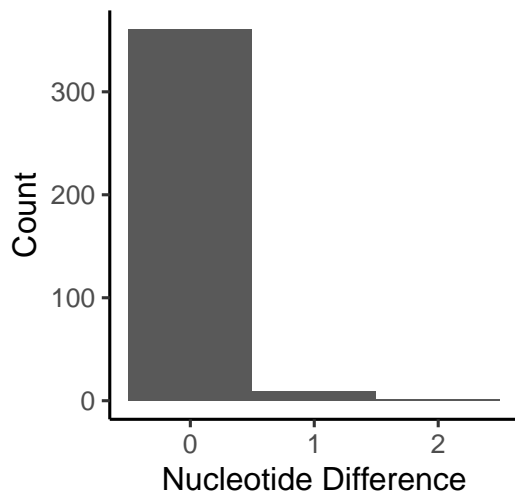
TRBV4–3*ap01

1768 sequences assigned
1676 (94.8%) exact matches, in which:
1617 unique CDR3
13 unique J



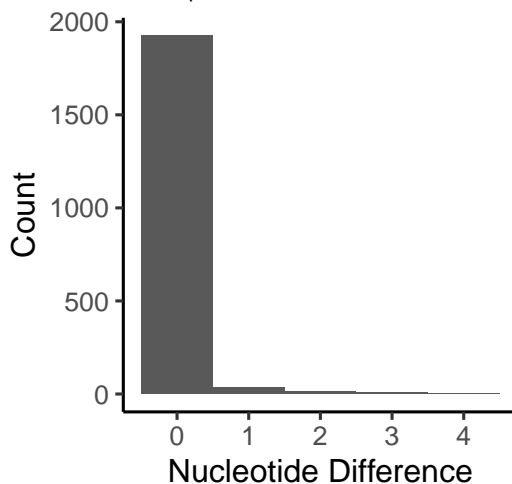
TRBV23–1*ap01_T304C

371 sequences assigned
361 (97.3%) exact matches, in which:
356 unique CDR3
13 unique J



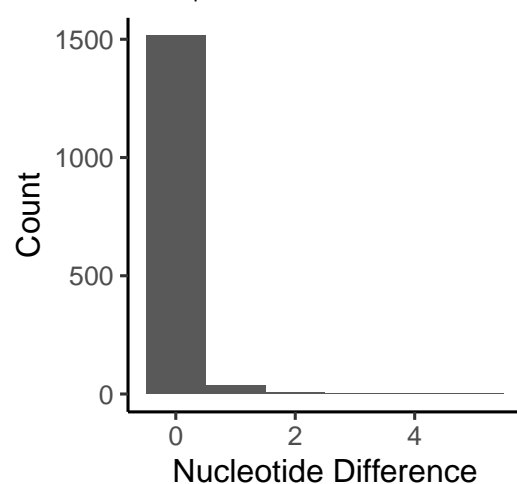
TRBV4–1*ap01

1979 sequences assigned
1925 (97.3%) exact matches, in which:
1881 unique CDR3
13 unique J



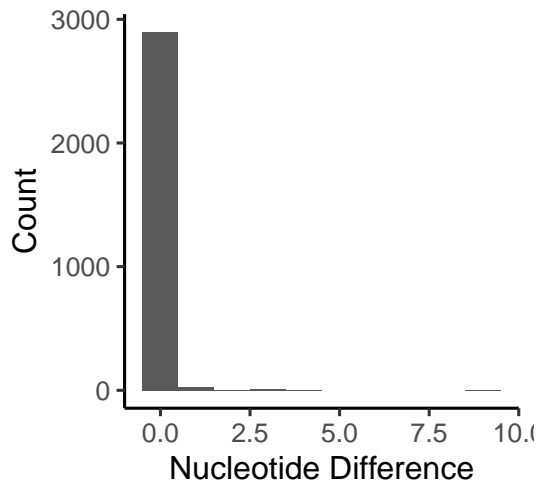
TRBV25–1*ap01

1563 sequences assigned
1515 (96.9%) exact matches, in which:
1479 unique CDR3
13 unique J



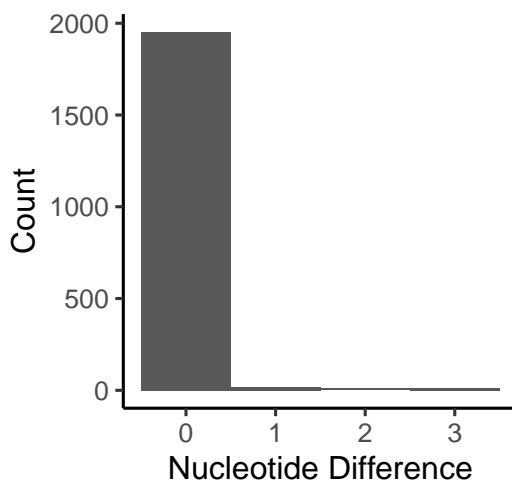
TRBV3–12*ap01

2943 sequences assigned
2897 (98.4%) exact matches, in which:
2875 unique CDR3
13 unique J



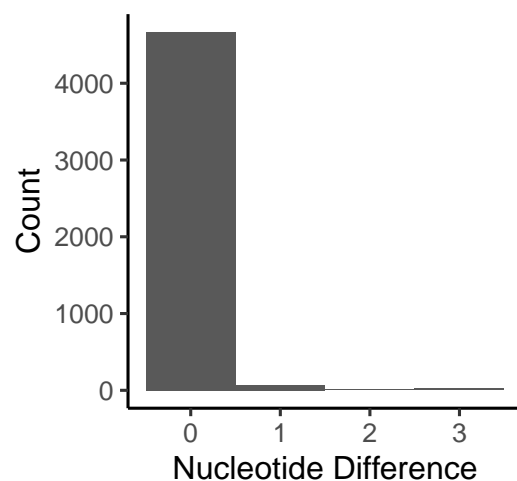
TRBV4–2*ap01

1991 sequences assigned
1952 (98%) exact matches, in which:
1910 unique CDR3
13 unique J



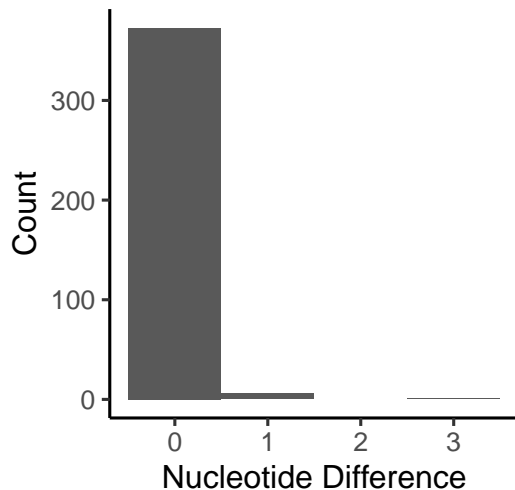
TRBV5–1*ap01

4766 sequences assigned
4667 (97.9%) exact matches, in which:
4571 unique CDR3
13 unique J



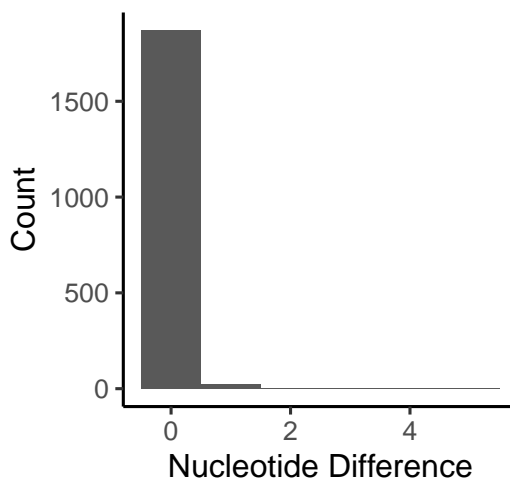
TRBV5-3*ap01

380 sequences assigned
373 (98.2%) exact matches, in which:
368 unique CDR3
13 unique J



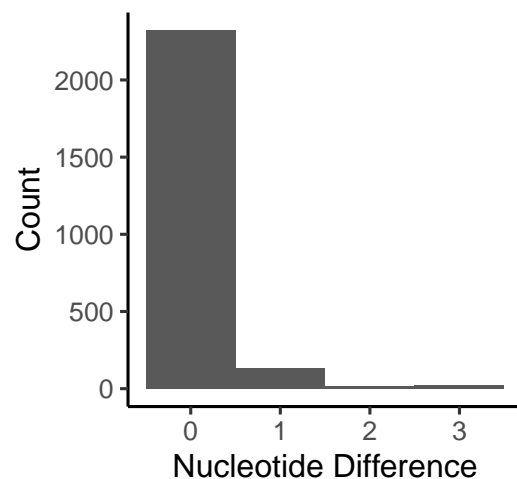
TRBV5-6*ap01

1903 sequences assigned
1870 (98.3%) exact matches, in which:
1820 unique CDR3
13 unique J



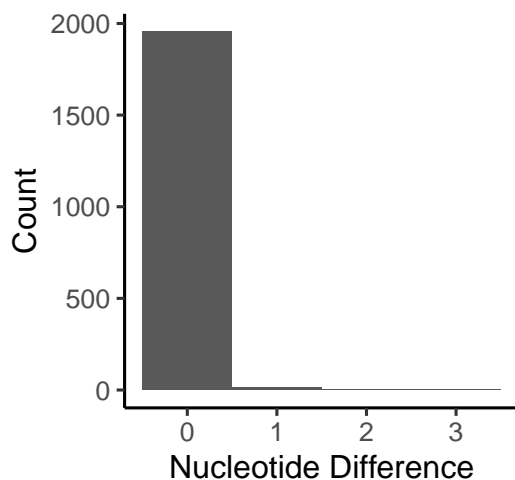
TRBV6-1*ap01

2495 sequences assigned
2321 (93%) exact matches, in which:
2263 unique CDR3
13 unique J



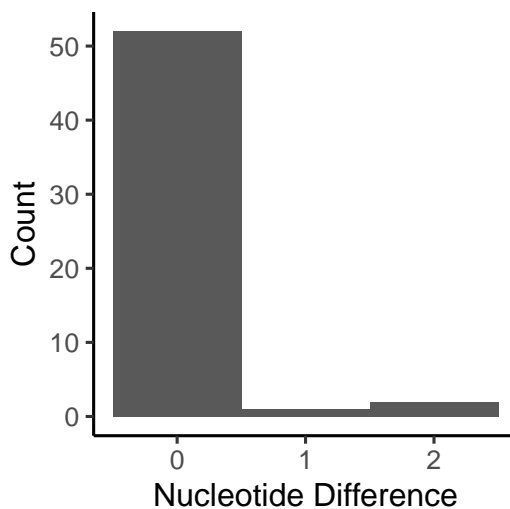
TRBV5-4*ap01

1976 sequences assigned
1955 (98.9%) exact matches, in which:
1928 unique CDR3
13 unique J



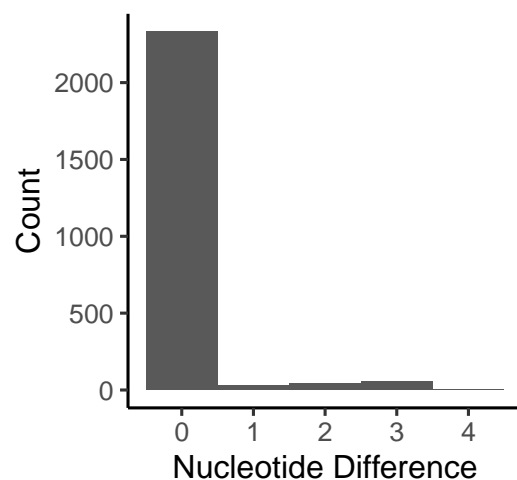
TRBV5-7*ap01

55 sequences assigned
52 (94.5%) exact matches, in which:
49 unique CDR3
11 unique J



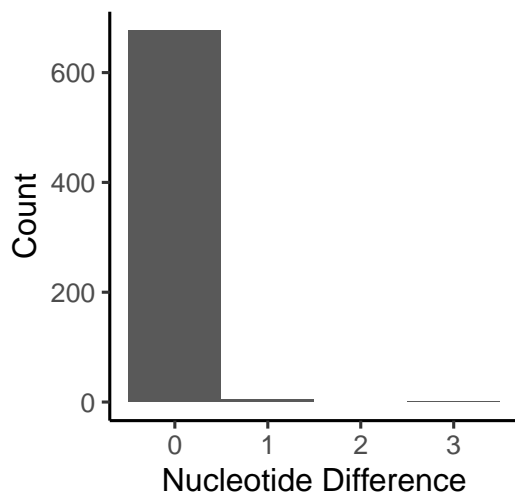
TRBV6-4*ap01

2461 sequences assigned
2331 (94.7%) exact matches, in which:
2304 unique CDR3
13 unique J



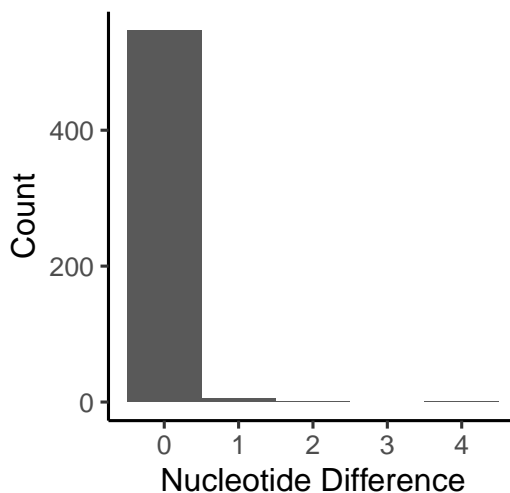
TRBV5-5*ap01

682 sequences assigned
677 (99.3%) exact matches, in which:
668 unique CDR3
13 unique J



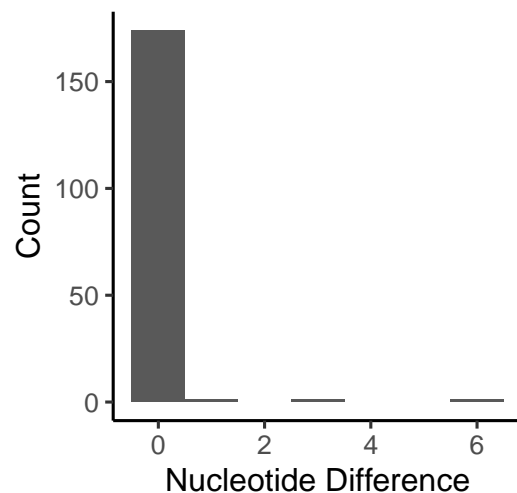
TRBV5-8*ap01

554 sequences assigned
547 (98.7%) exact matches, in which:
541 unique CDR3
13 unique J



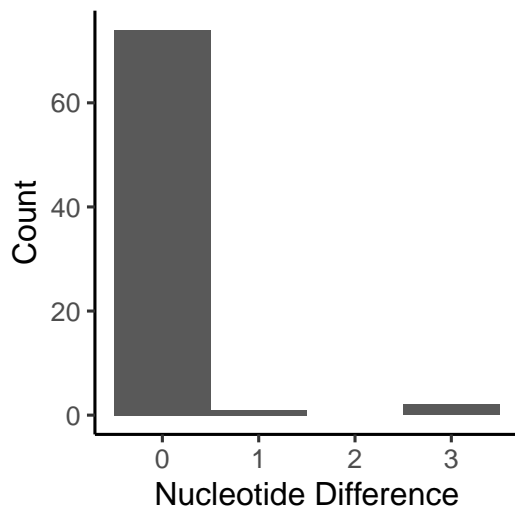
TRBV6-7*ap01

177 sequences assigned
174 (98.3%) exact matches, in which:
171 unique CDR3
13 unique J



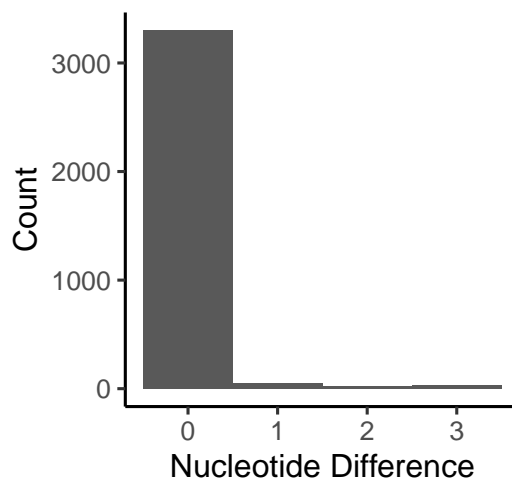
TRBV6–8*ap01

77 sequences assigned
74 (96.1%) exact matches, in which:
72 unique CDR3
13 unique J



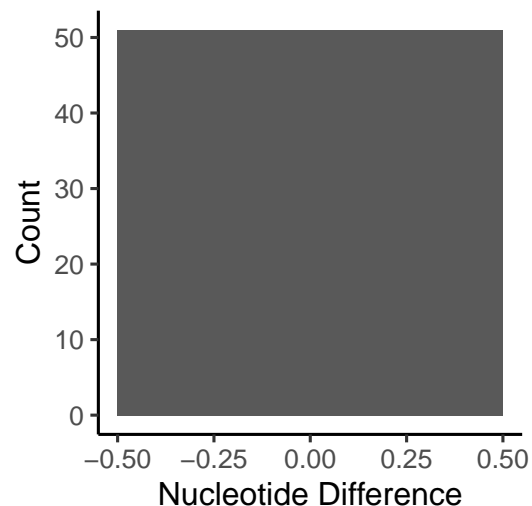
TRBV6–56*ap01

3408 sequences assigned
3300 (96.8%) exact matches, in which:
3230 unique CDR3
13 unique J



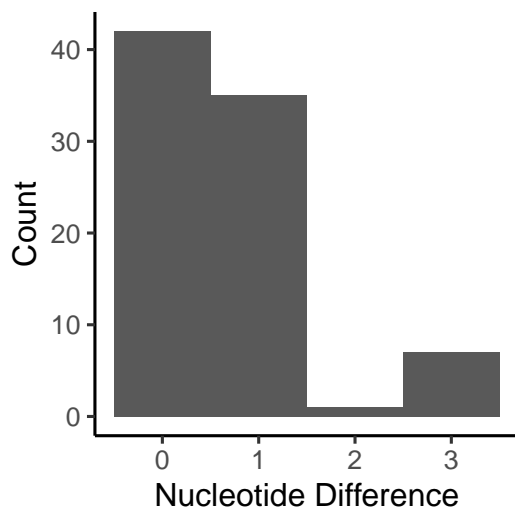
TRBV7–1*ap01_G291C_T

51 sequences assigned
51 (100%) exact matches, in which:
51 unique CDR3
11 unique J



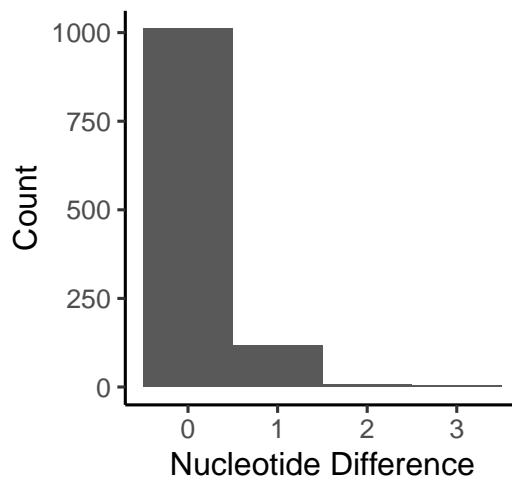
TRBV6–9*ap01

85 sequences assigned
42 (49.4%) exact matches, in which:
40 unique CDR3
11 unique J



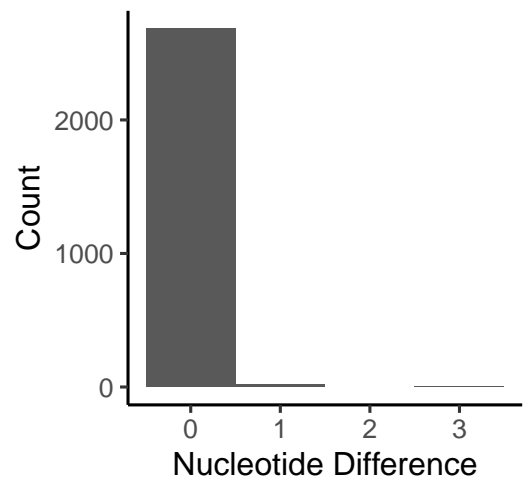
TRBV6–56*ap02

1138 sequences assigned
1011 (88.8%) exact matches, in which:
980 unique CDR3
13 unique J



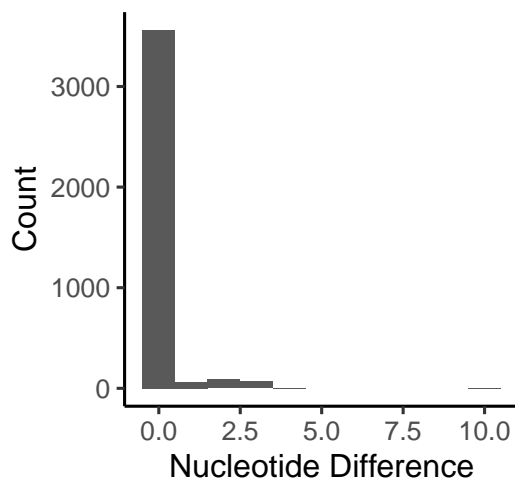
TRBV7–2*ap01

2700 sequences assigned
2683 (99.4%) exact matches, in which:
2647 unique CDR3
13 unique J



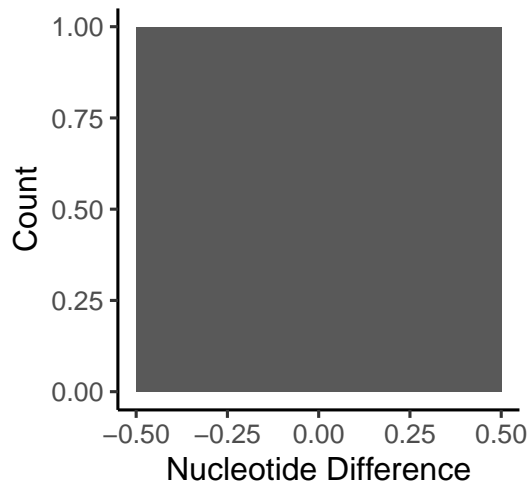
TRBV6–23*ap01

3783 sequences assigned
3561 (94.1%) exact matches, in which:
3475 unique CDR3
13 unique J



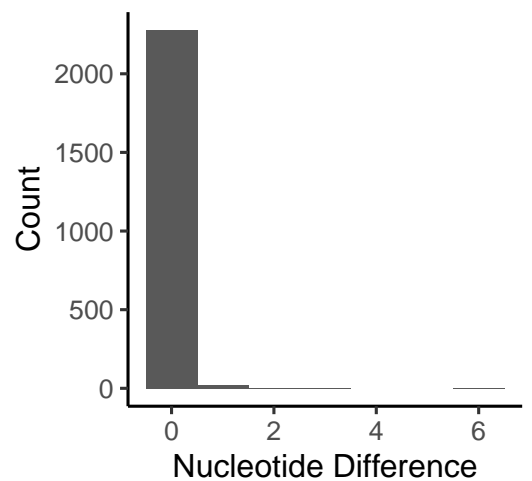
TRBV7–1*ap01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



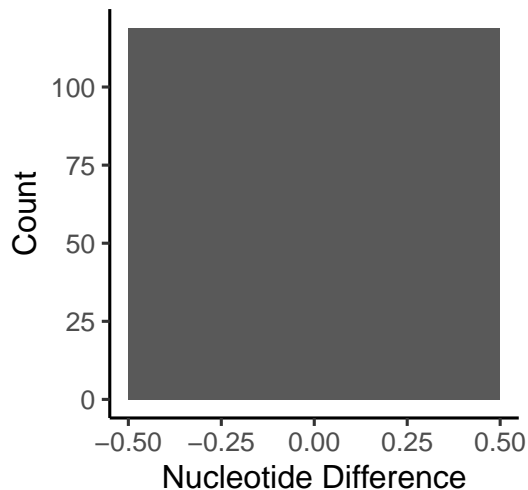
TRBV7–3*ap01

2303 sequences assigned
2278 (98.9%) exact matches, in which:
2247 unique CDR3
13 unique J



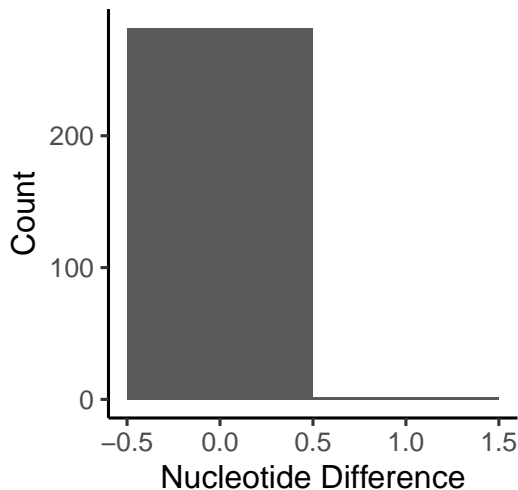
TRBV7-4*ap01

119 sequences assigned
119 (100%) exact matches, in which:
118 unique CDR3
13 unique J



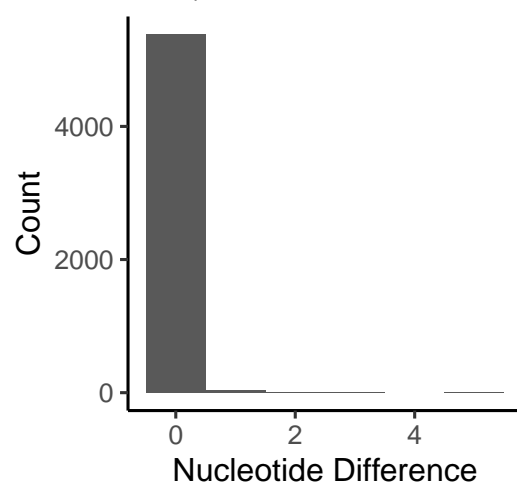
TRBV7-7*ap01_C315T

284 sequences assigned
282 (99.3%) exact matches, in which:
274 unique CDR3
13 unique J



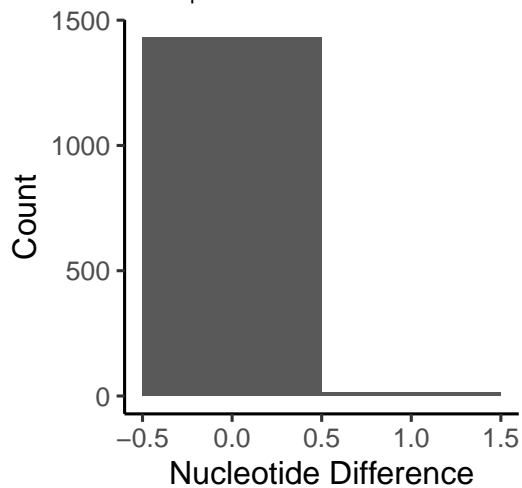
TRBV7-9*ap01

5430 sequences assigned
5382 (99.1%) exact matches, in which:
5279 unique CDR3
13 unique J



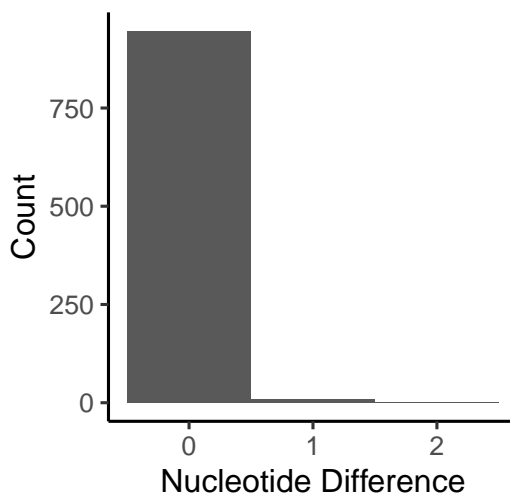
TRBV7-6*ap01

1443 sequences assigned
1430 (99.1%) exact matches, in which:
1411 unique CDR3
13 unique J



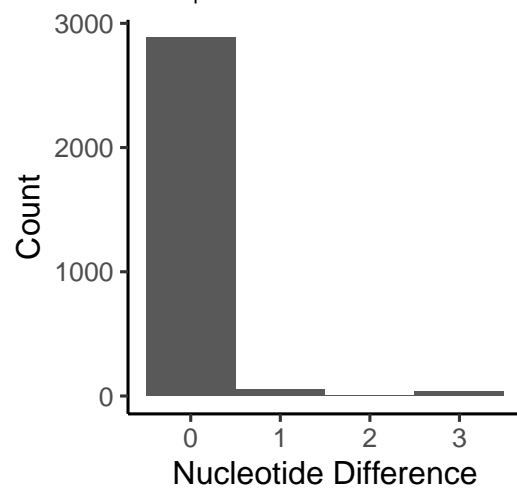
TRBV7-8*ap01

956 sequences assigned
946 (99%) exact matches, in which:
934 unique CDR3
13 unique J



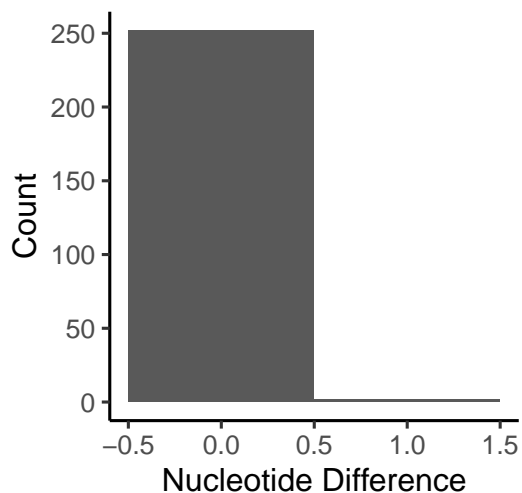
TRBV29-1*ap01

2971 sequences assigned
2884 (97.1%) exact matches, in which:
2812 unique CDR3
13 unique J



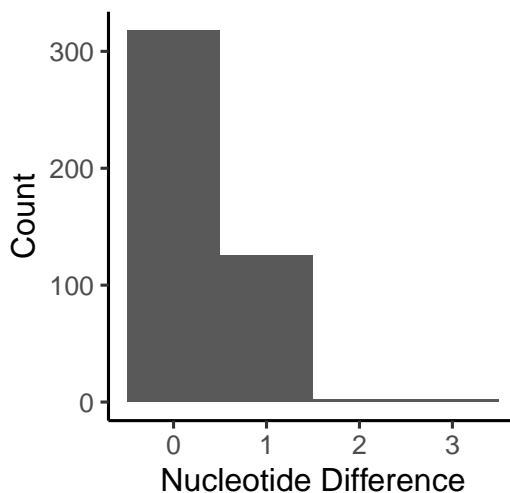
TRBV7-7*ap01

254 sequences assigned
252 (99.2%) exact matches, in which:
247 unique CDR3
12 unique J



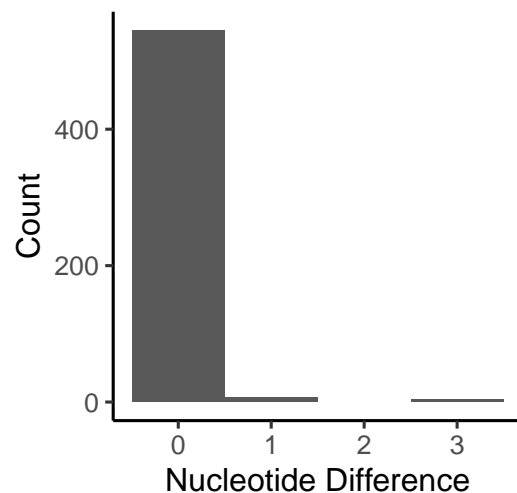
TRBV7-8*ap03

447 sequences assigned
318 (71.1%) exact matches, in which:
316 unique CDR3
13 unique J

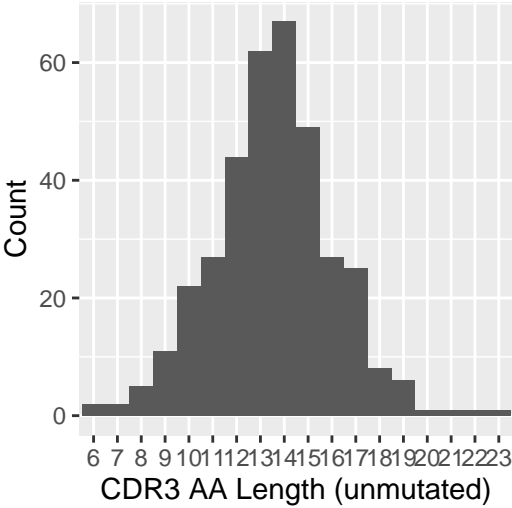


TRBV29-1*ap02

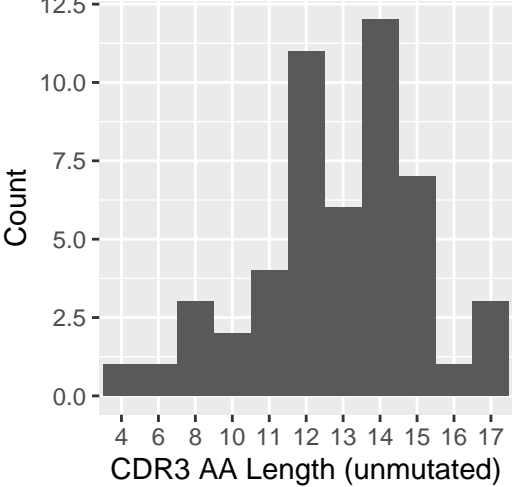
555 sequences assigned
545 (98.2%) exact matches, in which:
529 unique CDR3
13 unique J



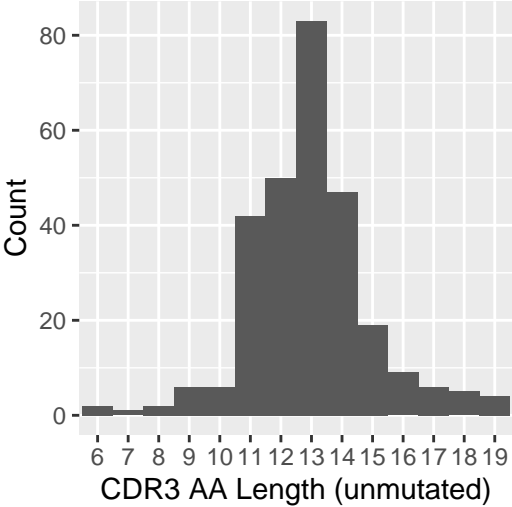
TRBV23-1*ap01_T304C



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]