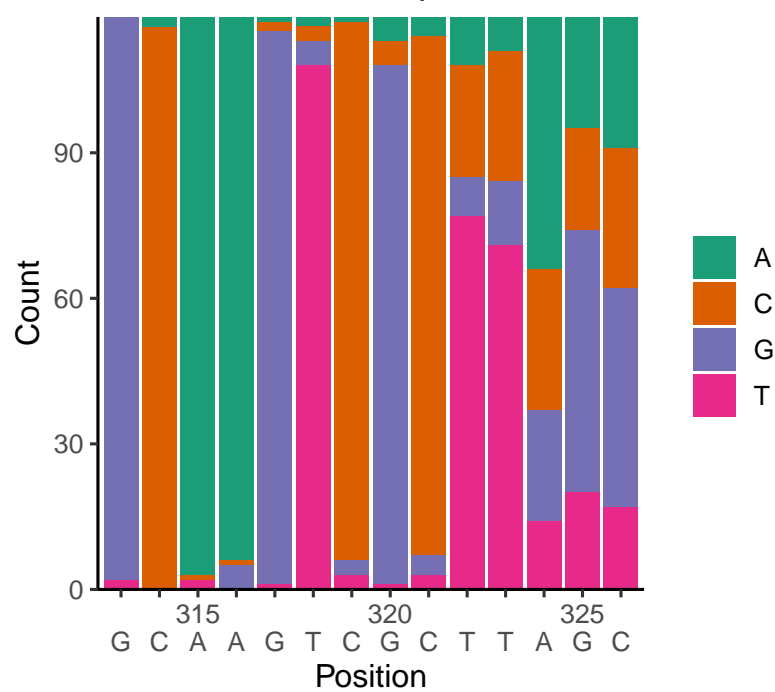
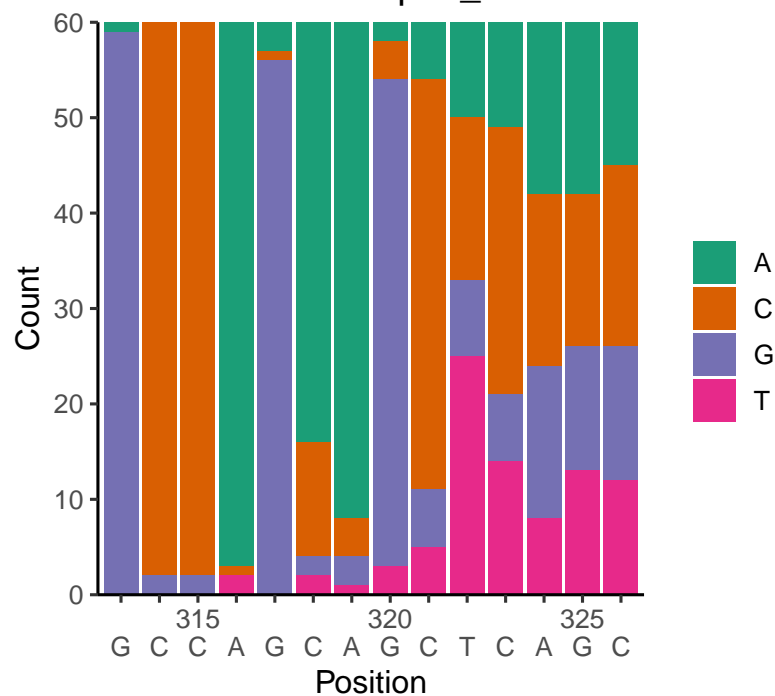


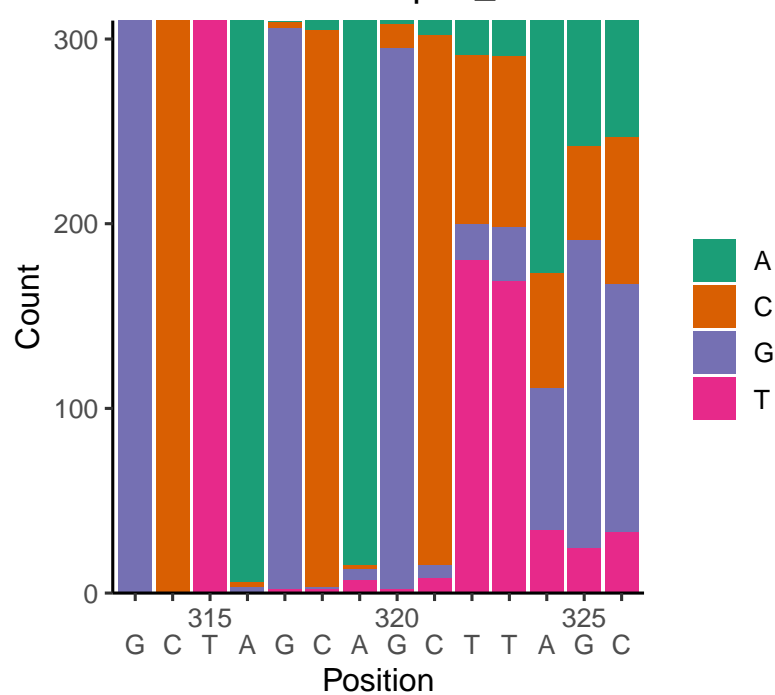
Gene TRBV12-2*ap01_G301A



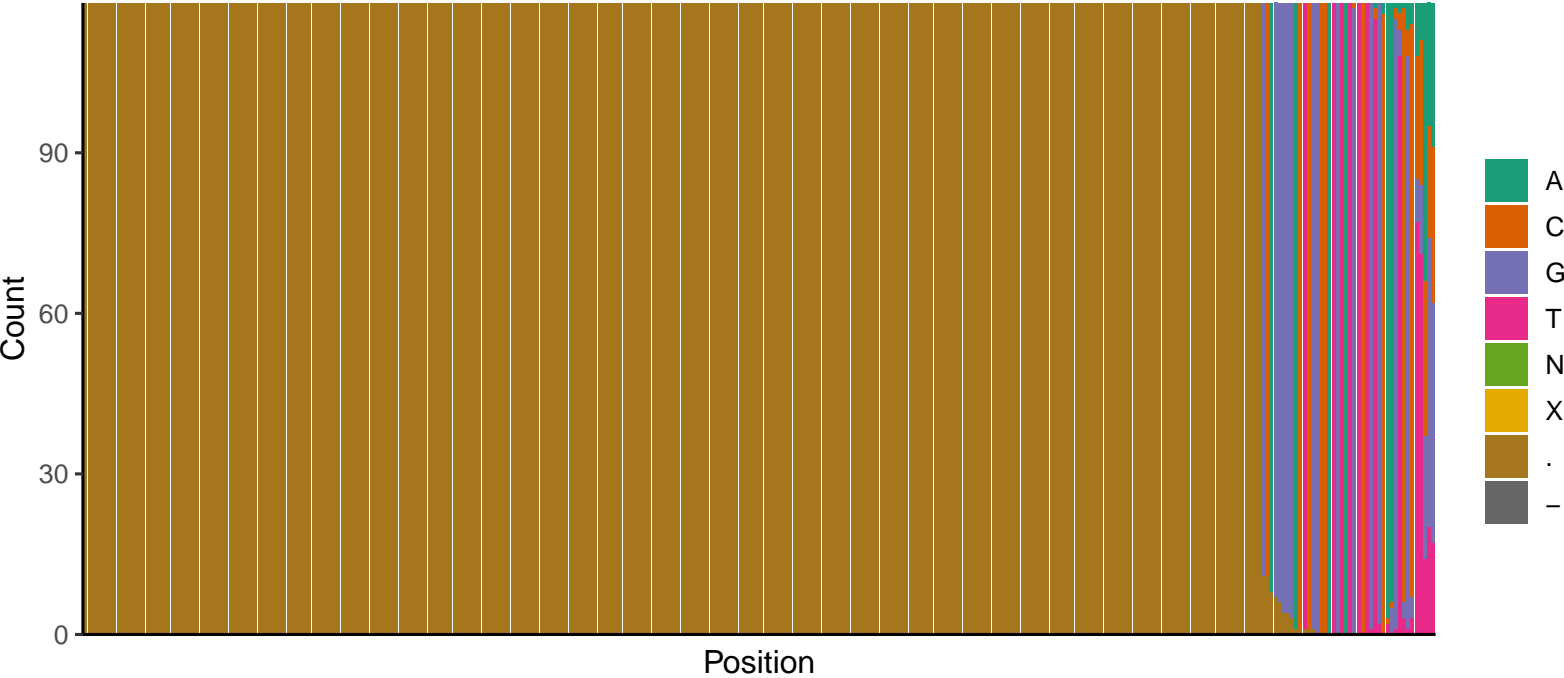
Gene TRBV7-1*ap01_T296C



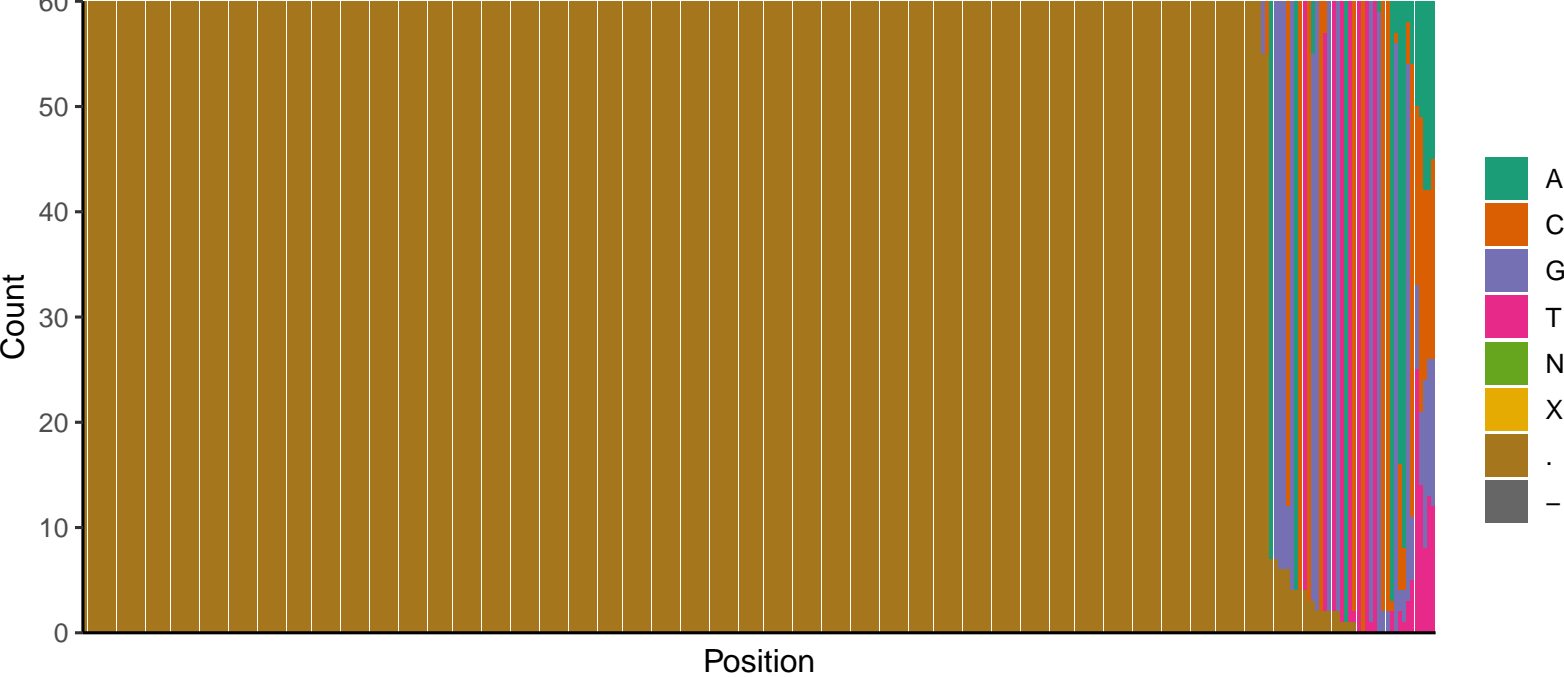
Gene TRBV7-7*ap01_C315T



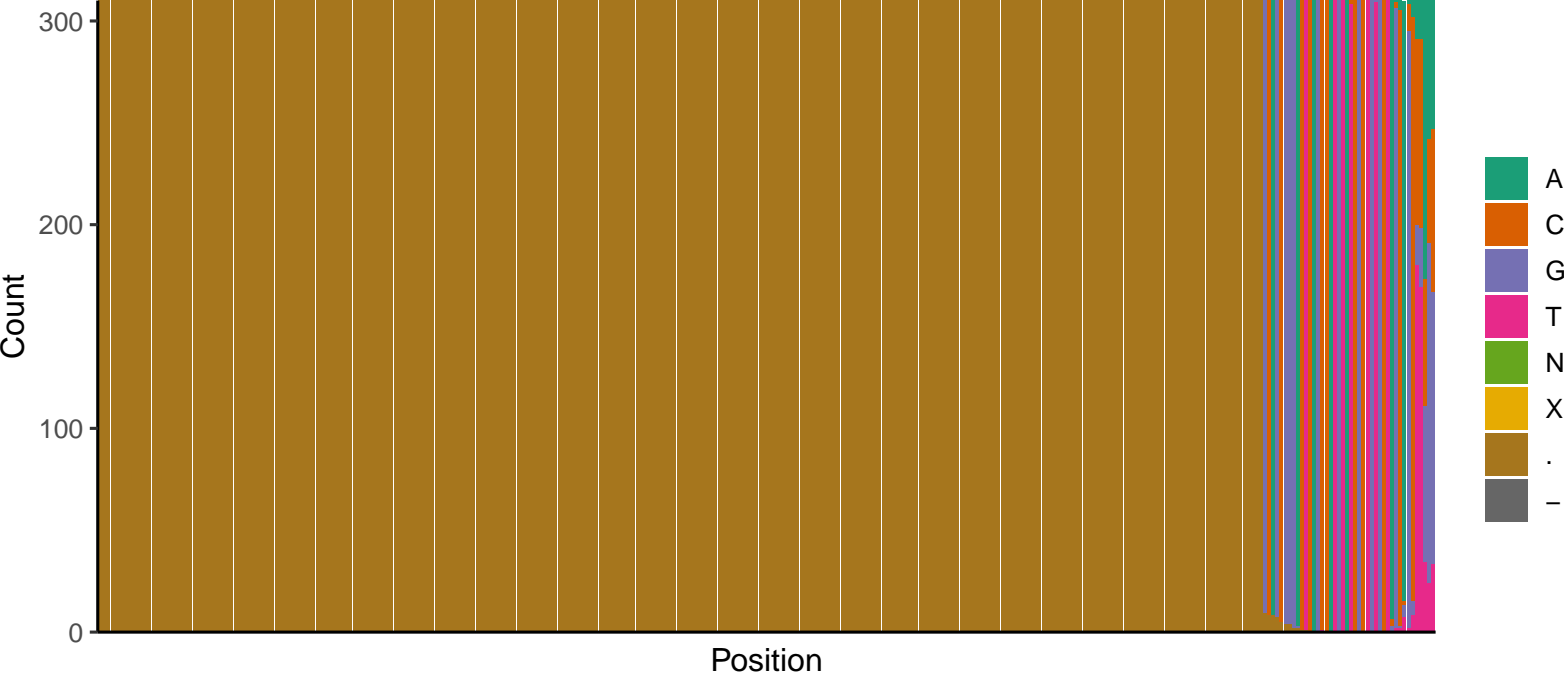
Gene TRBV12-2*ap01_G301A



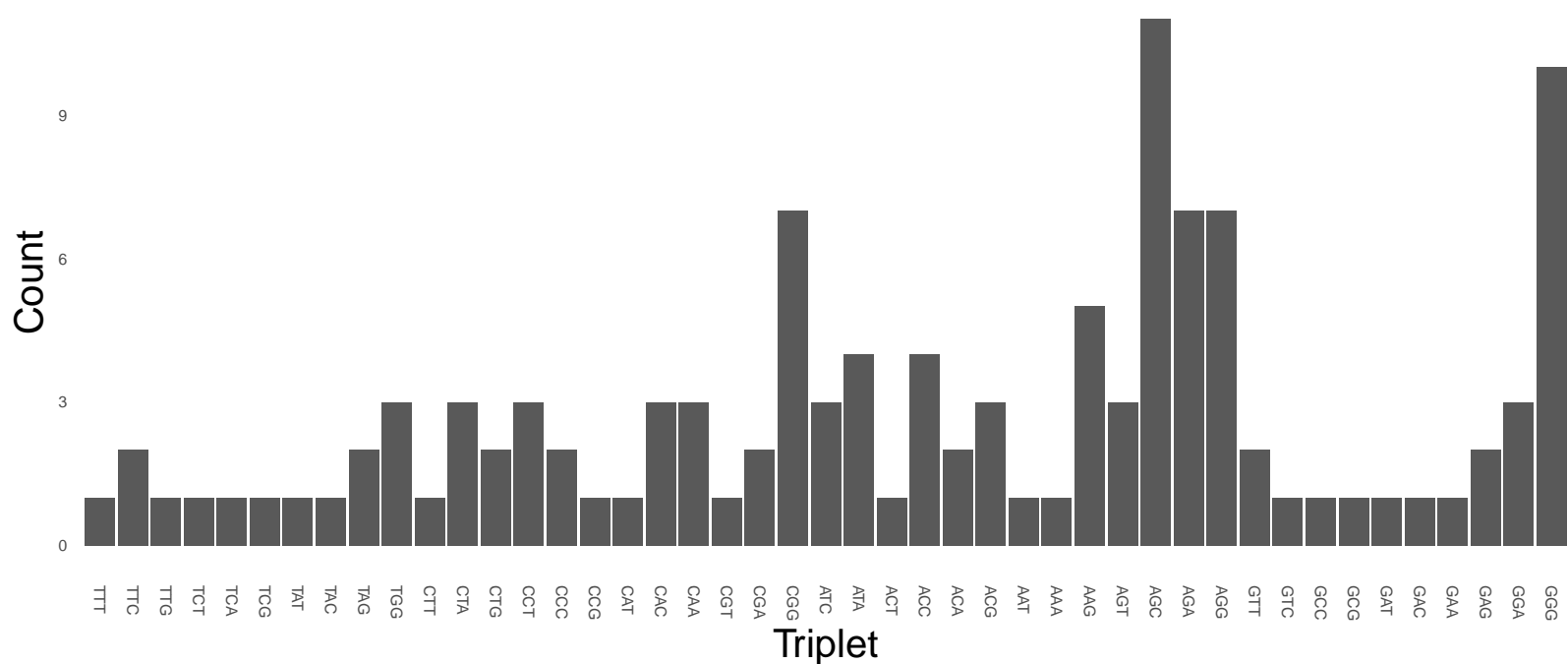
Gene TRBV7-1*ap01_T296C



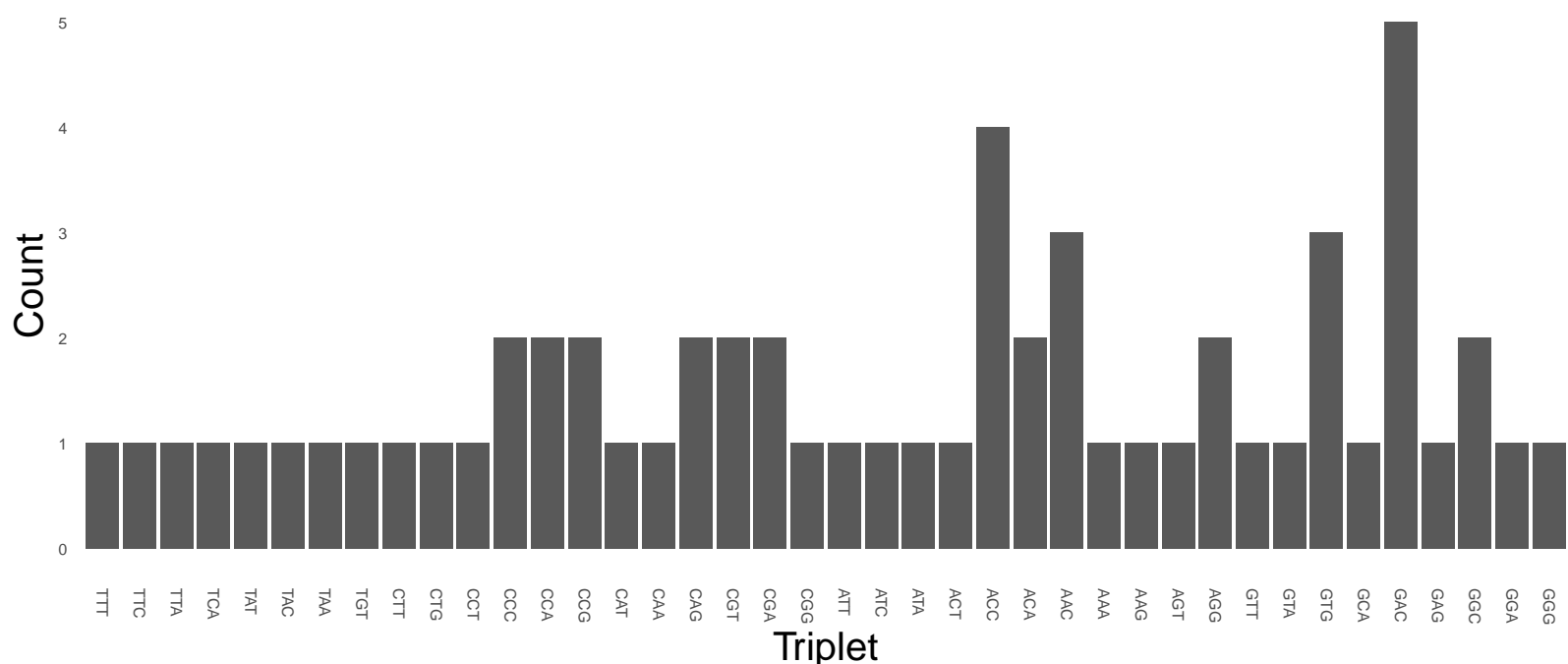
Gene TRBV7-7*ap01_C315T



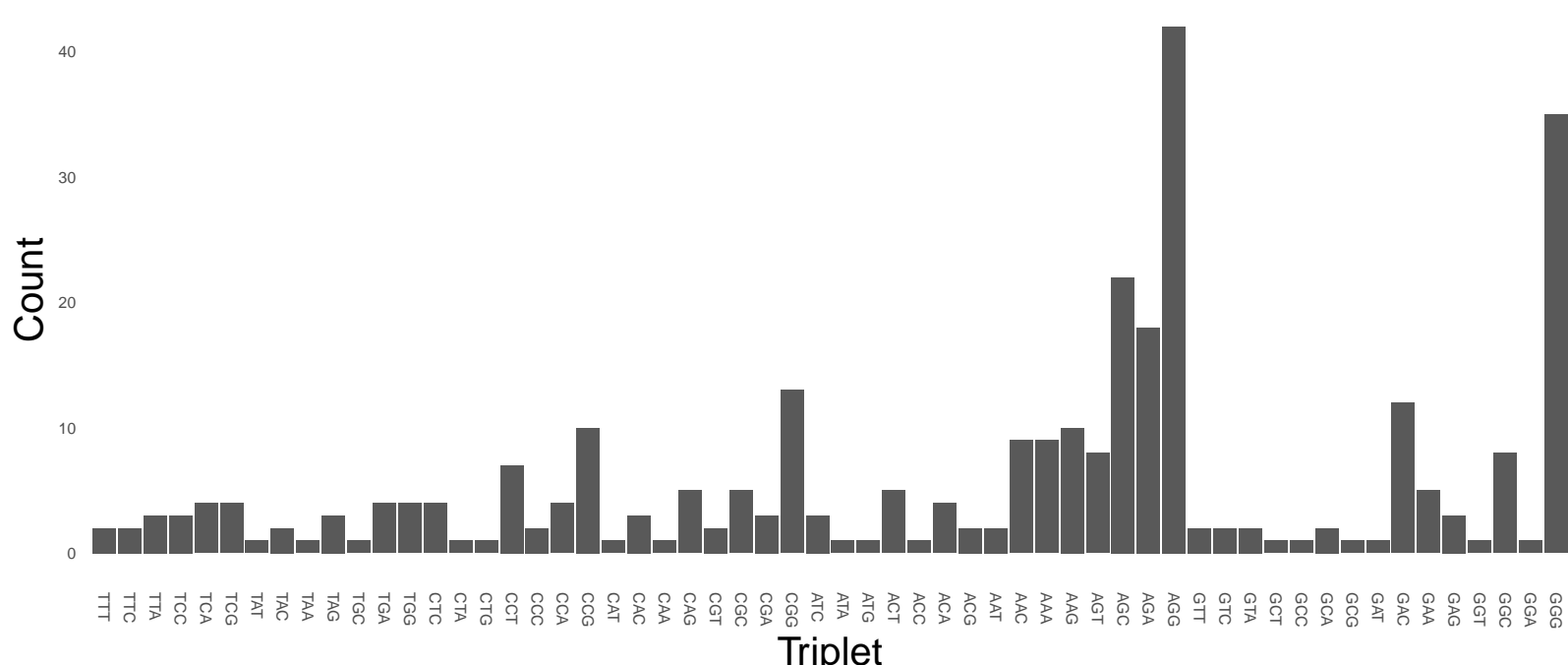
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



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

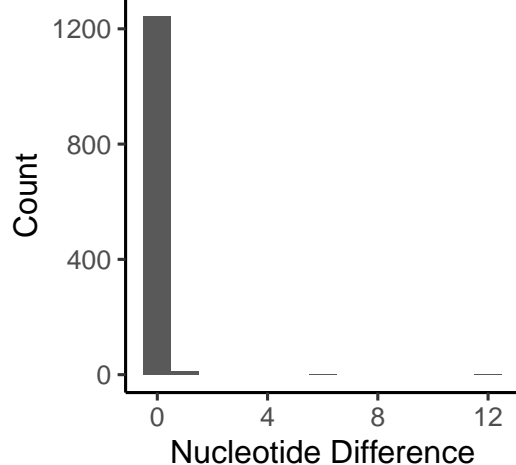


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



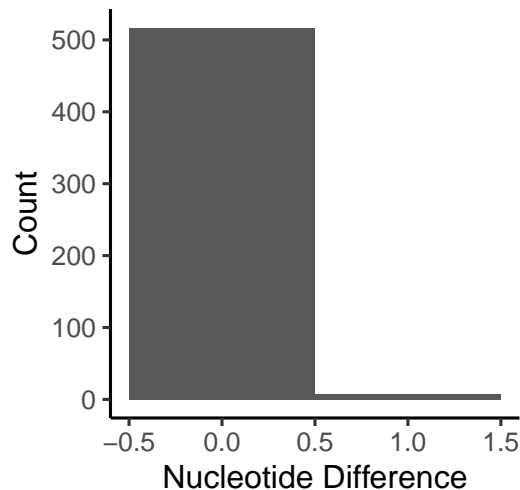
TRBV10-1*ap01

1257 sequences assigned
1243 (98.9%) exact matches, in which:
1200 unique CDR3
13 unique J



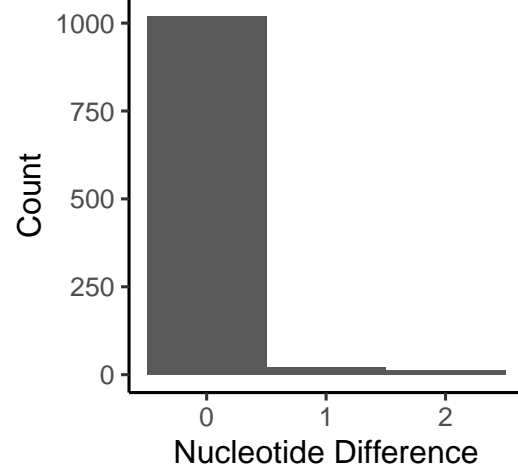
TRBV10-2*ap01

524 sequences assigned
517 (98.7%) exact matches, in which:
504 unique CDR3
13 unique J



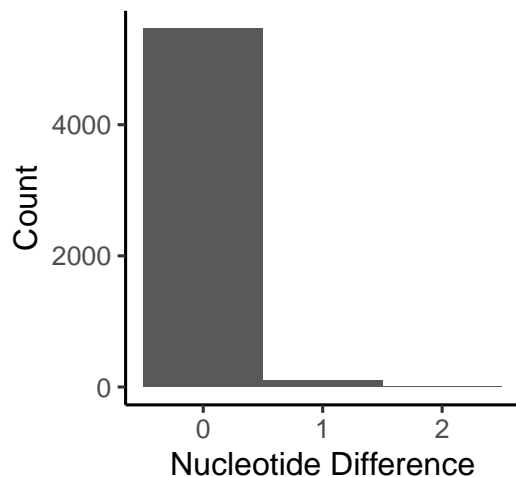
TRBV13*ap01

1053 sequences assigned
1019 (96.8%) exact matches, in which:
976 unique CDR3
13 unique J



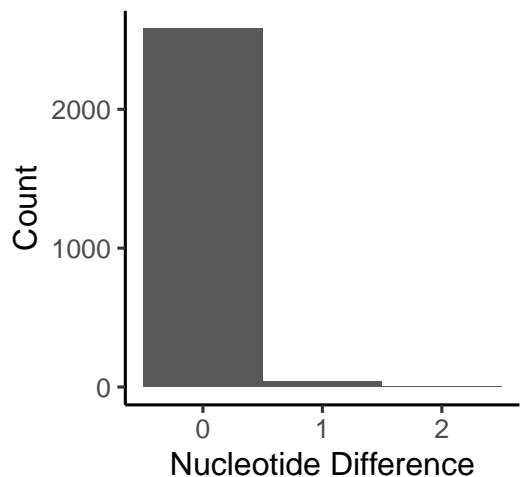
TRBV20-1*ap01

5572 sequences assigned
5464 (98.1%) exact matches, in which:
5299 unique CDR3
13 unique J



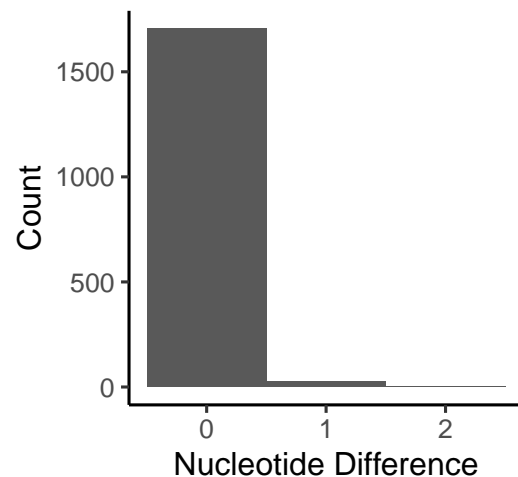
TRBV10-3*ap01

2622 sequences assigned
2580 (98.4%) exact matches, in which:
2510 unique CDR3
13 unique J



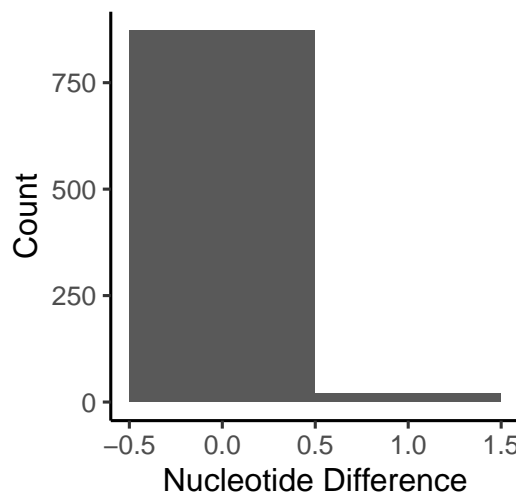
TRBV14*ap01

1734 sequences assigned
1705 (98.3%) exact matches, in which:
1657 unique CDR3
13 unique J



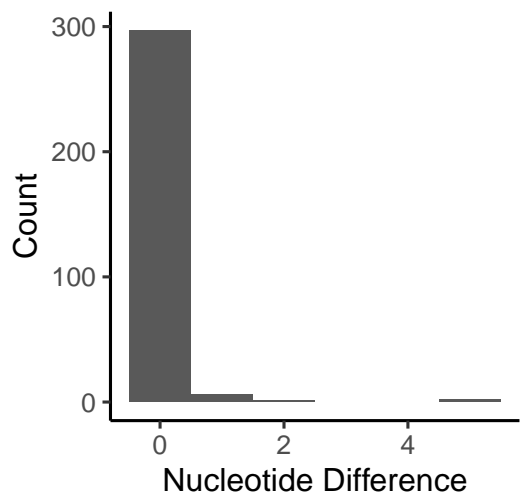
TRBV20-1*ap02

893 sequences assigned
873 (97.8%) exact matches, in which:
856 unique CDR3
13 unique J



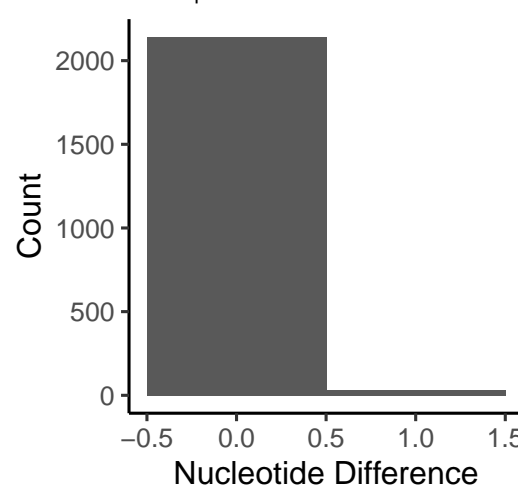
TRBV1*ap01

306 sequences assigned
297 (97.1%) exact matches, in which:
287 unique CDR3
13 unique J



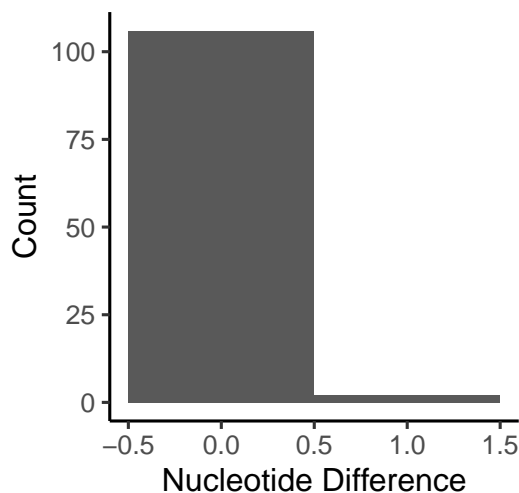
TRBV15*ap02

2171 sequences assigned
2141 (98.6%) exact matches, in which:
2059 unique CDR3
13 unique J



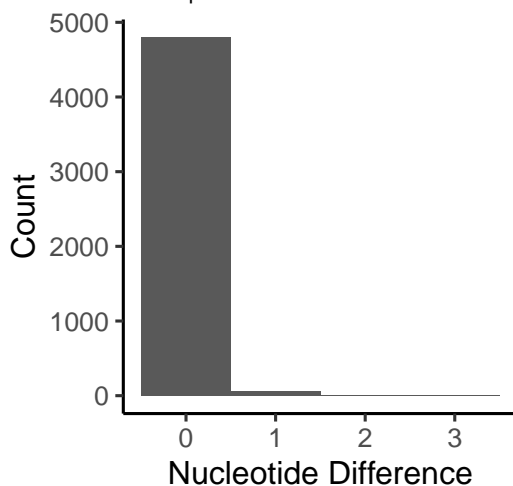
TRBV16*ap01

108 sequences assigned
106 (98.1%) exact matches, in which:
105 unique CDR3
13 unique J



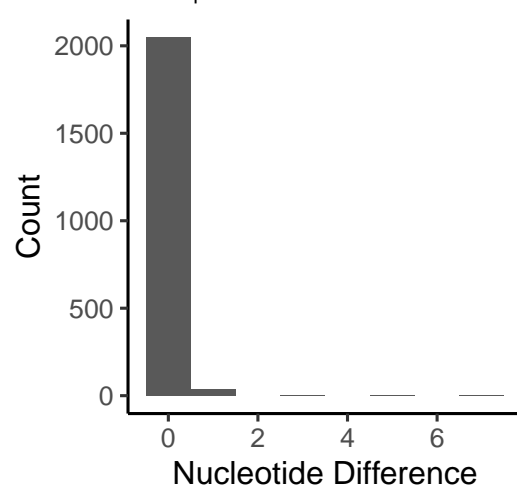
TRBV2*ap01

4867 sequences assigned
4798 (98.6%) exact matches, in which:
4675 unique CDR3
13 unique J



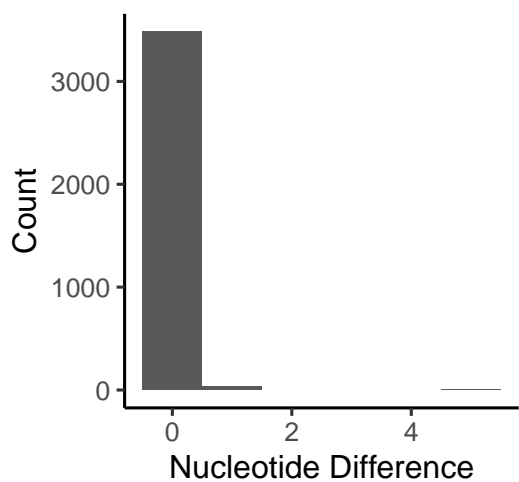
TRBV30*ap02

2091 sequences assigned
2048 (97.9%) exact matches, in which:
1980 unique CDR3
13 unique J



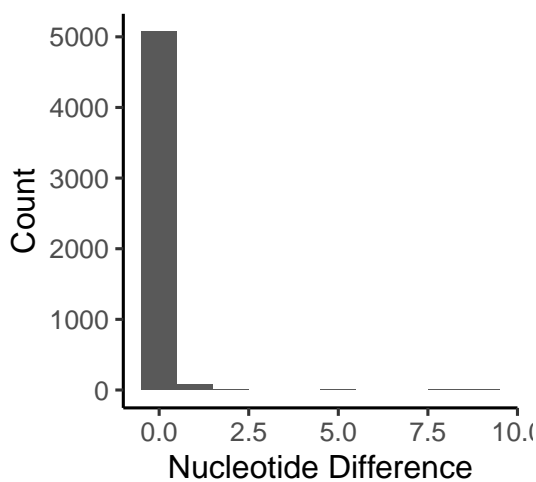
TRBV18*ap01

3515 sequences assigned
3483 (99.1%) exact matches, in which:
3419 unique CDR3
13 unique J



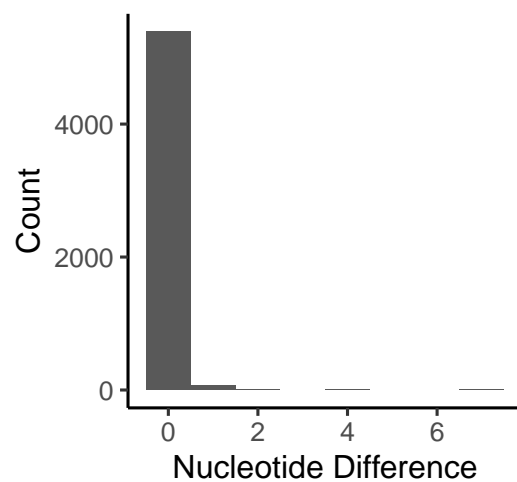
TRBV27*ap01

5164 sequences assigned
5072 (98.2%) exact matches, in which:
4947 unique CDR3
13 unique J



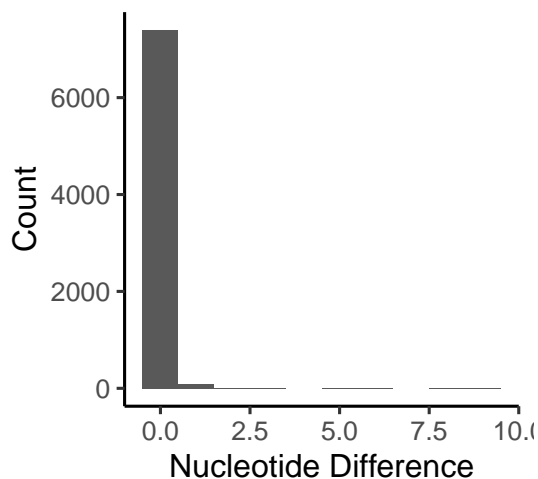
TRBV9*ap01

5456 sequences assigned
5389 (98.8%) exact matches, in which:
5258 unique CDR3
13 unique J



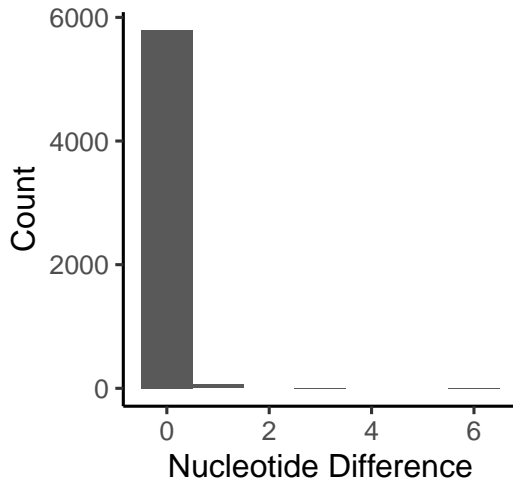
TRBV19*ap01

7496 sequences assigned
7395 (98.7%) exact matches, in which:
7273 unique CDR3
13 unique J



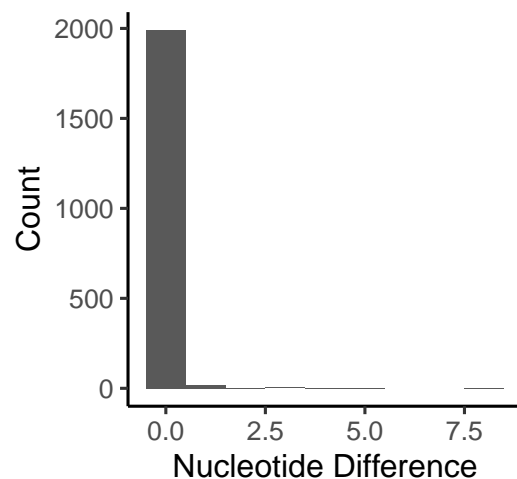
TRBV28*ap01

5862 sequences assigned
5795 (98.9%) exact matches, in which:
5668 unique CDR3
13 unique J



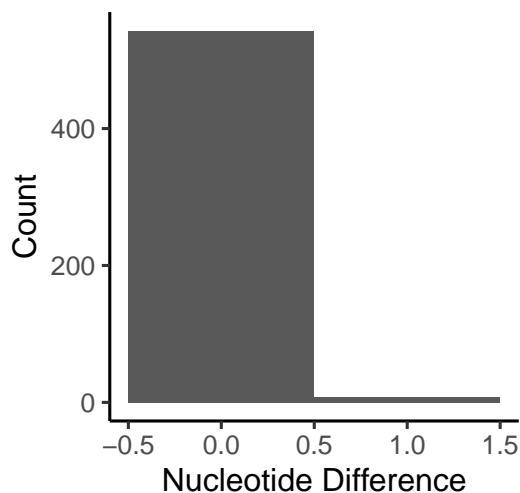
TRBV21-1*ap01

2024 sequences assigned
1991 (98.4%) exact matches, in which:
1964 unique CDR3
13 unique J



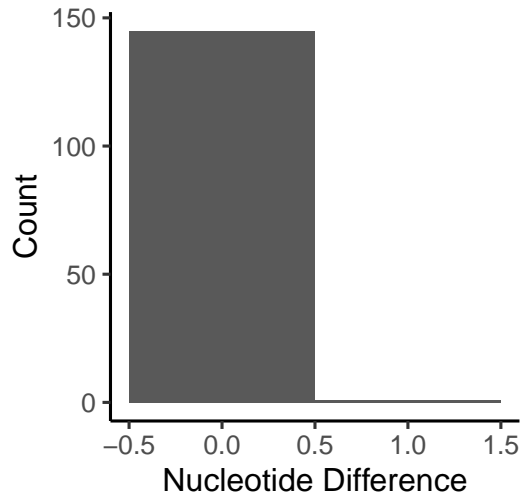
TRBV11-1*ap01

551 sequences assigned
543 (98.5%) exact matches, in which:
528 unique CDR3
13 unique J



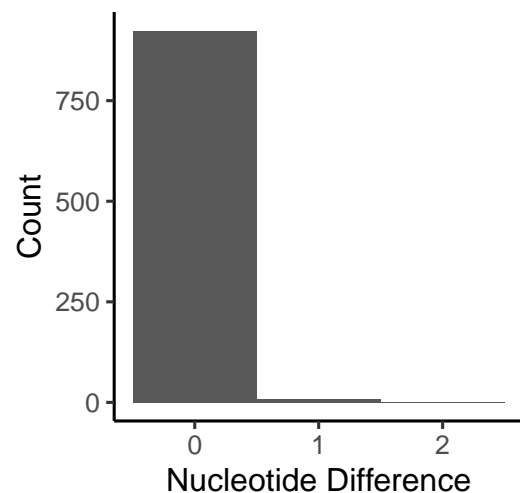
TRBV12-1*ap01

146 sequences assigned
145 (99.3%) exact matches, in which:
140 unique CDR3
13 unique J



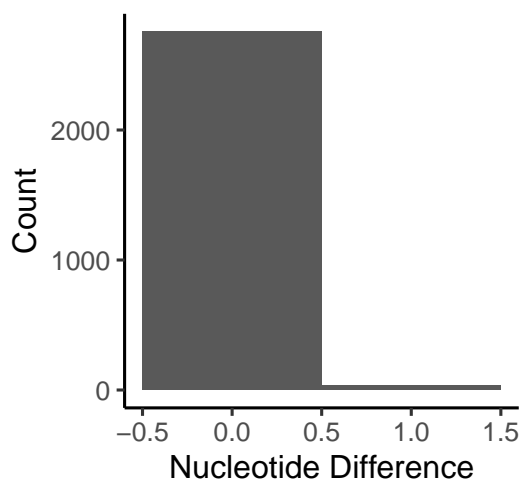
TRBV12-5*ap01

933 sequences assigned
924 (99%) exact matches, in which:
893 unique CDR3
13 unique J



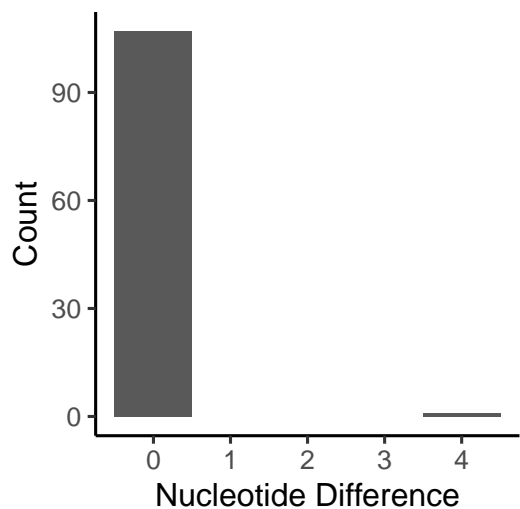
TRBV11-2*ap01

2793 sequences assigned
2756 (98.7%) exact matches, in which:
2669 unique CDR3
13 unique J



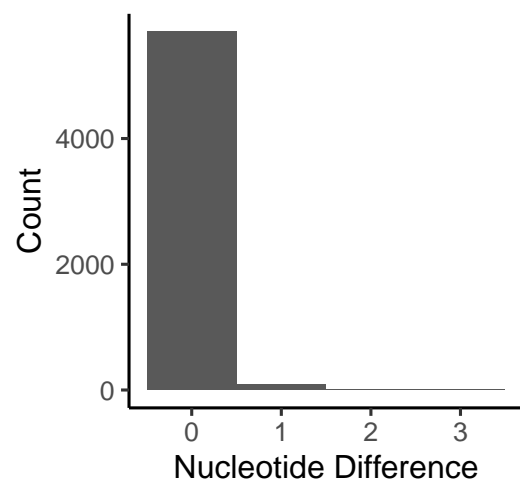
TRBV12-2*ap01

108 sequences assigned
107 (99.1%) exact matches, in which:
106 unique CDR3
13 unique J



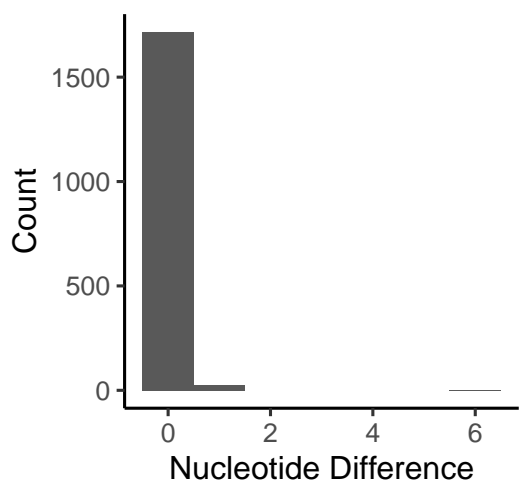
TRBV12-34*ap01

5800 sequences assigned
5699 (98.3%) exact matches, in which:
5562 unique CDR3
13 unique J



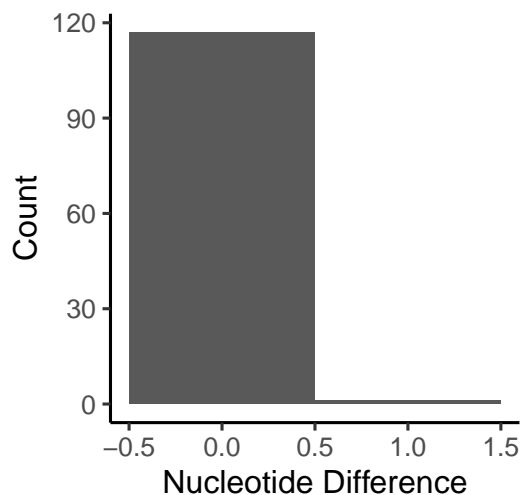
TRBV11-3*ap01

1741 sequences assigned
1716 (98.6%) exact matches, in which:
1677 unique CDR3
13 unique J



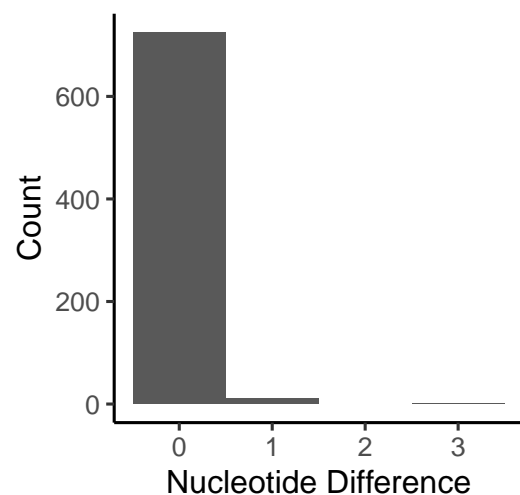
TRBV12-2*ap01_G301A

118 sequences assigned
117 (99.2%) exact matches, in which:
115 unique CDR3
13 unique J



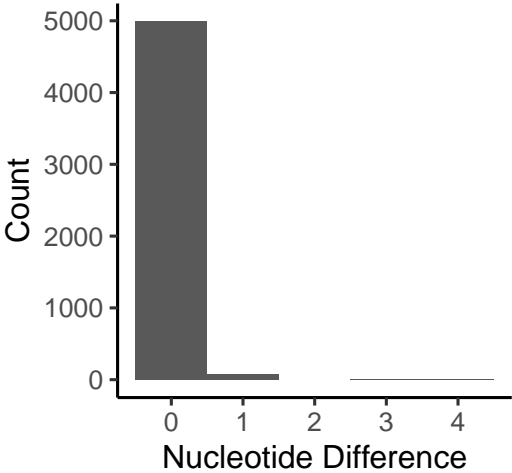
TRBV23-1*ap01

736 sequences assigned
725 (98.5%) exact matches, in which:
716 unique CDR3
13 unique J



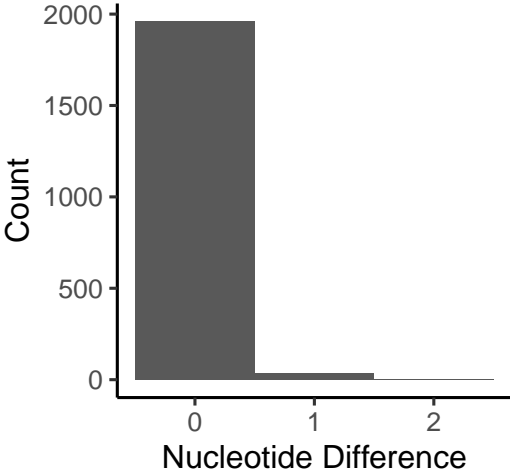
TRBV3–12*ap01

5073 sequences assigned
4991 (98.4%) exact matches, in which:
4833 unique CDR3
13 unique J



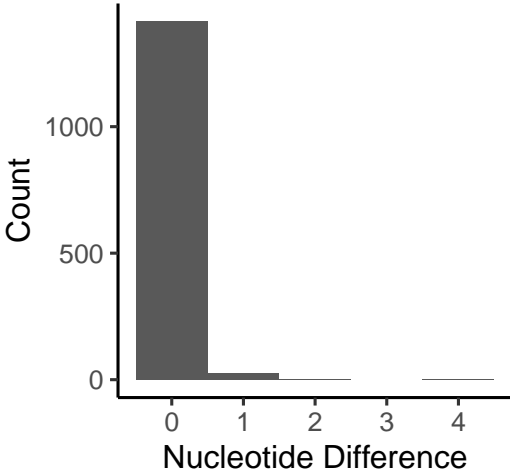
TRBV4–2*ap01

1997 sequences assigned
1960 (98.1%) exact matches, in which:
1907 unique CDR3
13 unique J



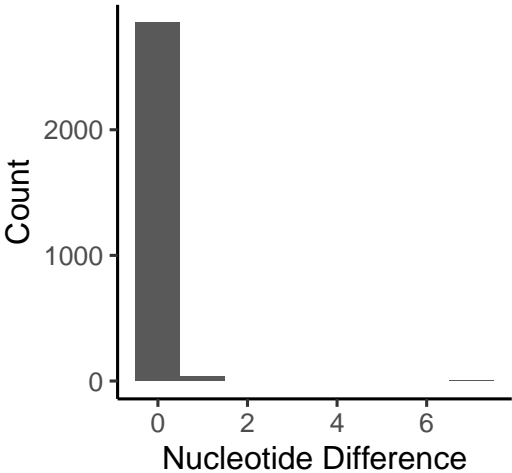
TRBV25–1*ap01

1442 sequences assigned
1416 (98.2%) exact matches, in which:
1363 unique CDR3
13 unique J



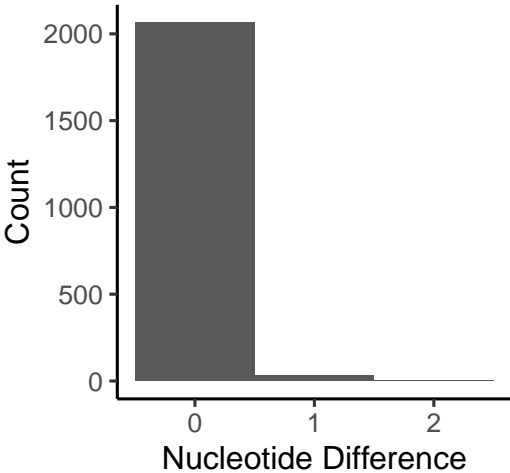
TRBV4–1*ap01

2886 sequences assigned
2852 (98.8%) exact matches, in which:
2764 unique CDR3
13 unique J



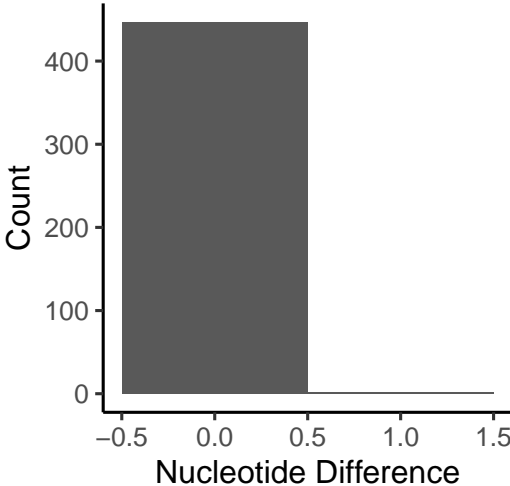
TRBV4–3*ap01

2098 sequences assigned
2064 (98.4%) exact matches, in which:
2007 unique CDR3
13 unique J



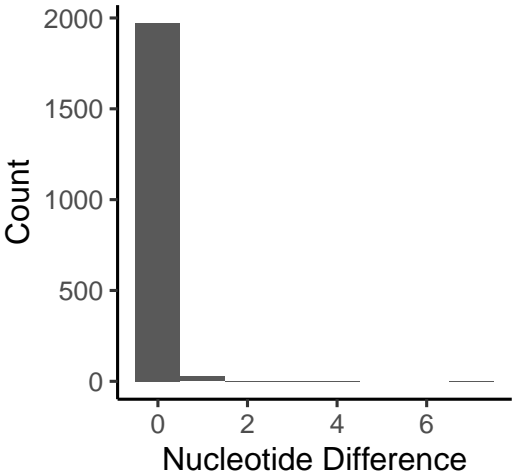
TRBV5–3*ap01

449 sequences assigned
447 (99.6%) exact matches, in which:
431 unique CDR3
13 unique J



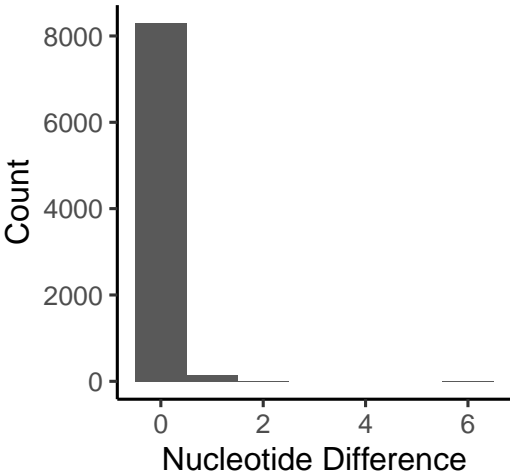
TRBV24–1*ap01

2005 sequences assigned
1972 (98.4%) exact matches, in which:
1922 unique CDR3
13 unique J



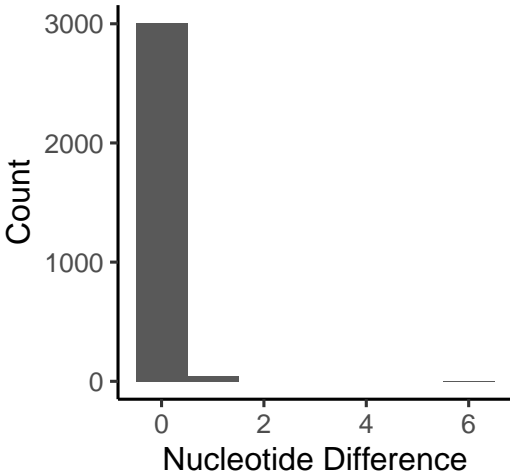
TRBV5–1*ap01

8459 sequences assigned
8299 (98.1%) exact matches, in which:
7983 unique CDR3
13 unique J



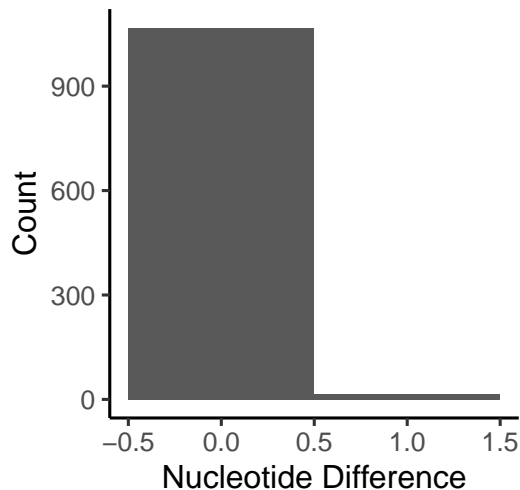
TRBV5–4*ap01

3051 sequences assigned
3006 (98.5%) exact matches, in which:
2906 unique CDR3
13 unique J



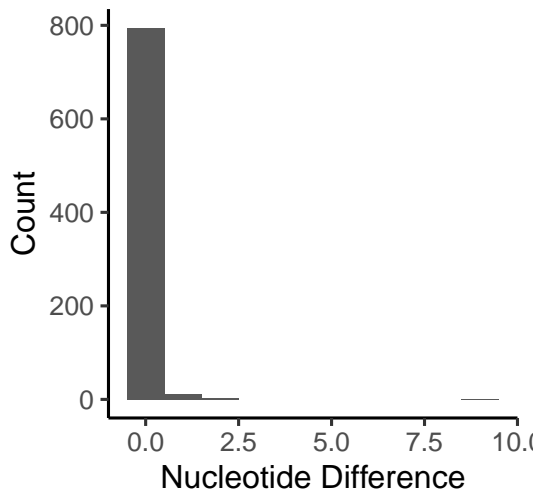
TRBV5-5*ap01

1083 sequences assigned
1068 (98.6%) exact matches, in which:
1052 unique CDR3
13 unique J



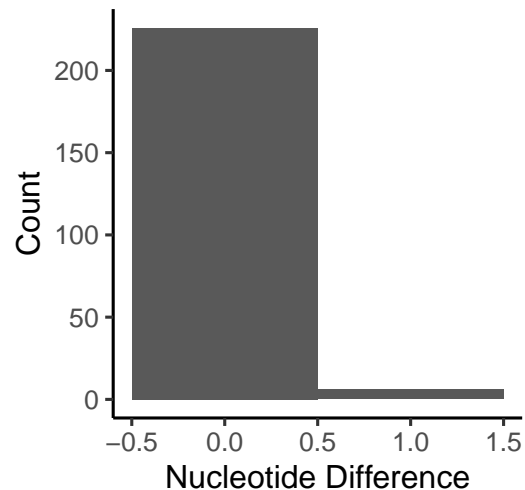
TRBV5-8*ap01

810 sequences assigned
795 (98.1%) exact matches, in which:
783 unique CDR3
13 unique J



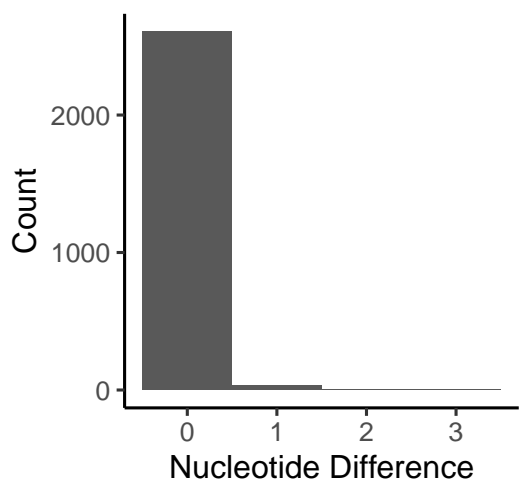
TRBV6-7*ap01

232 sequences assigned
226 (97.4%) exact matches, in which:
217 unique CDR3
13 unique J



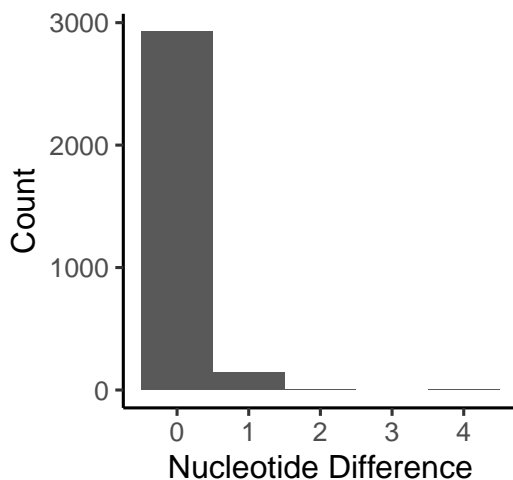
TRBV5-6*ap01

2645 sequences assigned
2606 (98.5%) exact matches, in which:
2515 unique CDR3
13 unique J



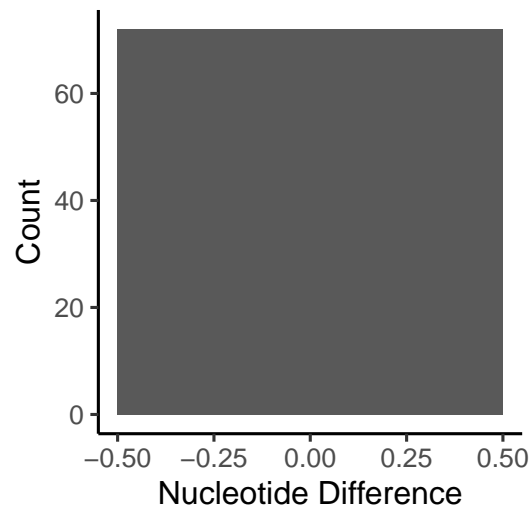
TRBV6-1*ap01

3071 sequences assigned
2926 (95.3%) exact matches, in which:
2824 unique CDR3
13 unique J



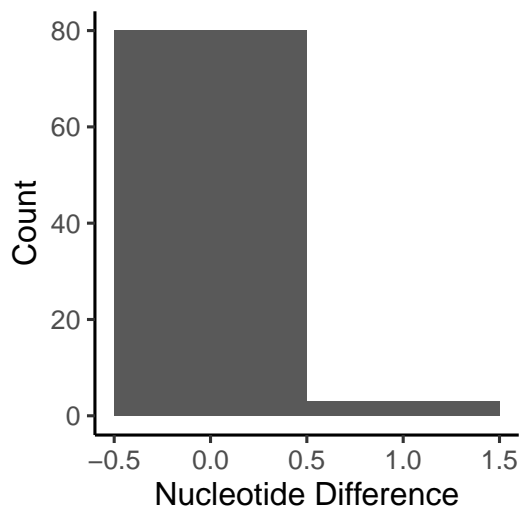
TRBV6-8*ap01

72 sequences assigned
72 (100%) exact matches, in which:
70 unique CDR3
12 unique J



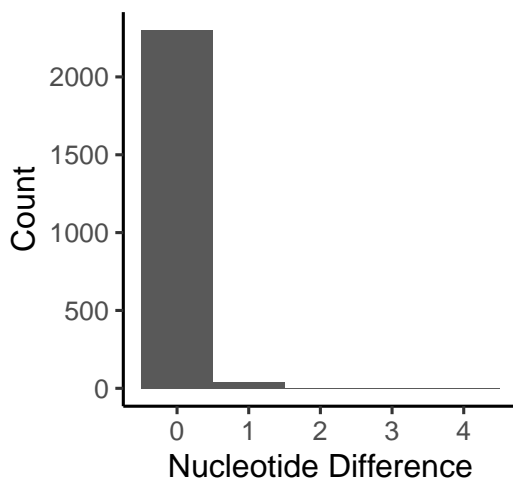
TRBV5-7*ap01

83 sequences assigned
80 (96.4%) exact matches, in which:
75 unique CDR3
12 unique J



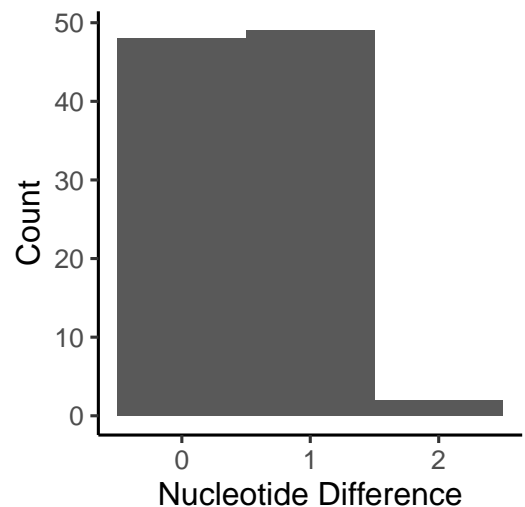
TRBV6-4*ap01

2347 sequences assigned
2301 (98%) exact matches, in which:
2258 unique CDR3
13 unique J



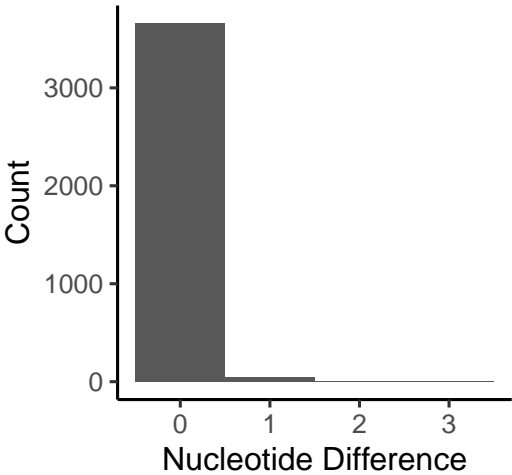
TRBV6-9*ap01

99 sequences assigned
48 (48.5%) exact matches, in which:
46 unique CDR3
12 unique J



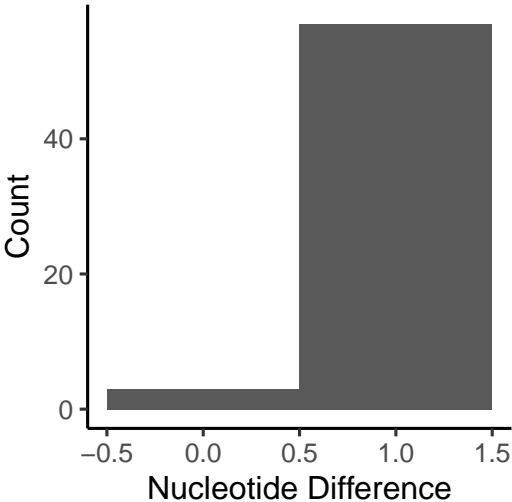
TRBV6-23*ap01

3705 sequences assigned
3658 (98.7%) exact matches, in which:
3533 unique CDR3
13 unique J



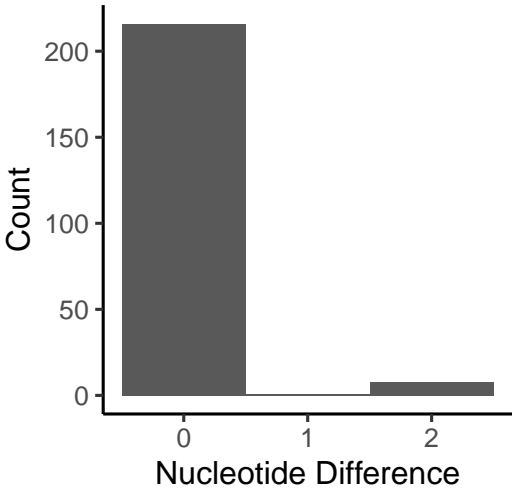
TRBV7-1*ap01_T296C

60 sequences assigned
3 (5%) exact matches, in which:
3 unique CDR3
3 unique J



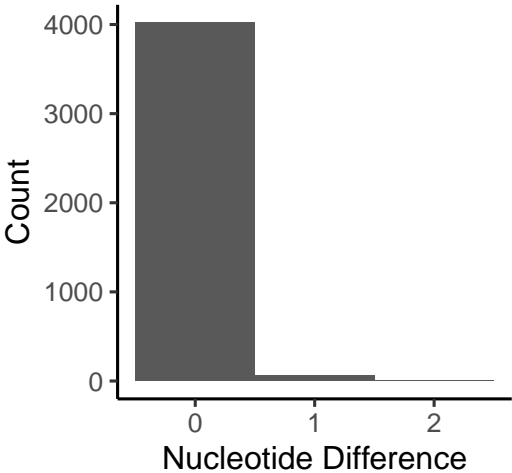
TRBV7-4*ap01

225 sequences assigned
216 (96%) exact matches, in which:
210 unique CDR3
13 unique J



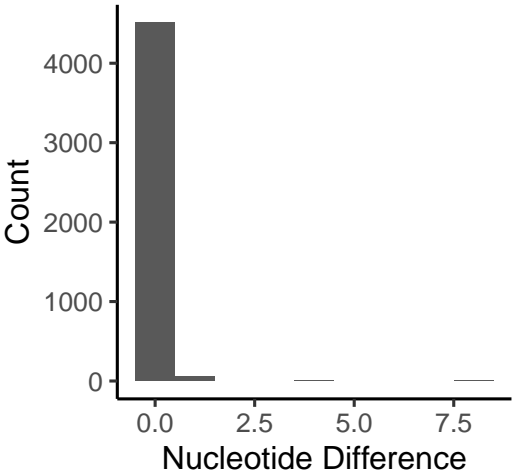
TRBV6-56*ap01

4083 sequences assigned
4020 (98.5%) exact matches, in which:
3869 unique CDR3
13 unique J



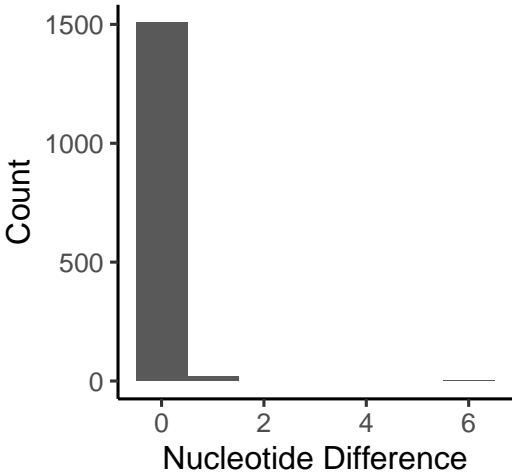
TRBV7-2*ap01

4572 sequences assigned
4510 (98.6%) exact matches, in which:
4406 unique CDR3
13 unique J



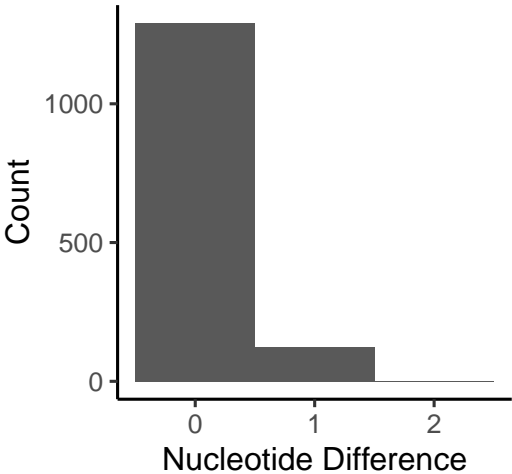
TRBV7-6*ap01

1529 sequences assigned
1507 (98.6%) exact matches, in which:
1451 unique CDR3
13 unique J



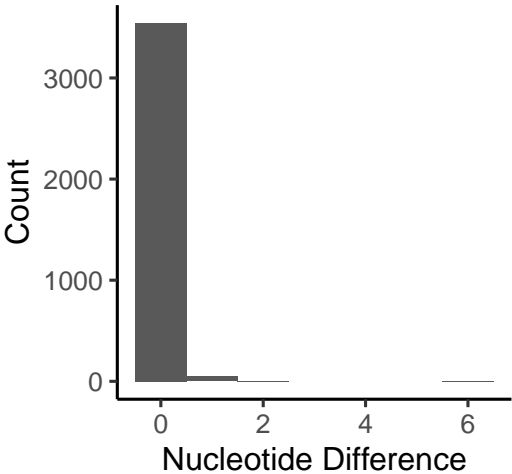
TRBV6-56*ap02

1416 sequences assigned
1291 (91.2%) exact matches, in which:
1241 unique CDR3
13 unique J



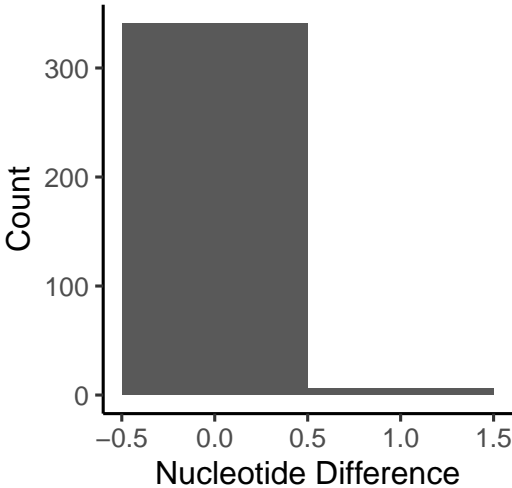
TRBV7-3*ap01

3593 sequences assigned
3543 (98.6%) exact matches, in which:
3448 unique CDR3
13 unique J



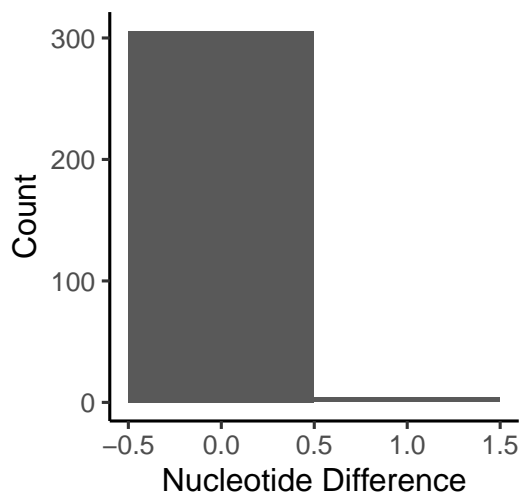
TRBV7-7*ap01

347 sequences assigned
341 (98.3%) exact matches, in which:
331 unique CDR3
13 unique J



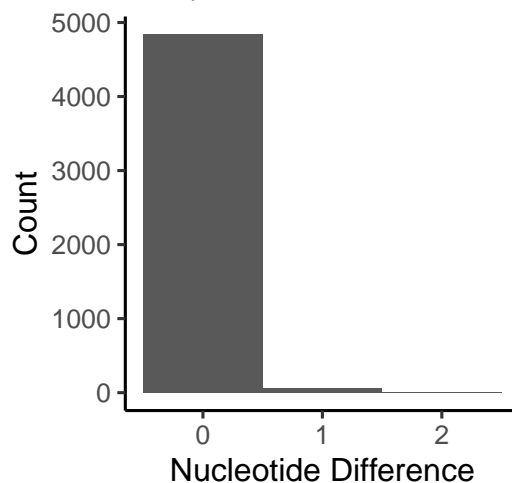
TRBV7-7*ap01_C315T

310 sequences assigned
306 (98.7%) exact matches, in which:
298 unique CDR3
13 unique J



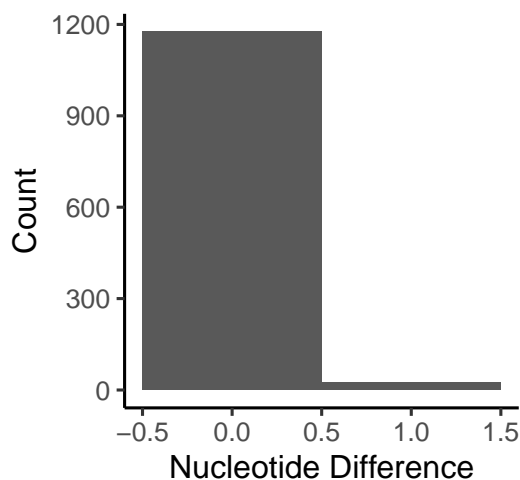
TRBV7-9*ap01

4900 sequences assigned
4839 (98.8%) exact matches, in which:
4692 unique CDR3
13 unique J



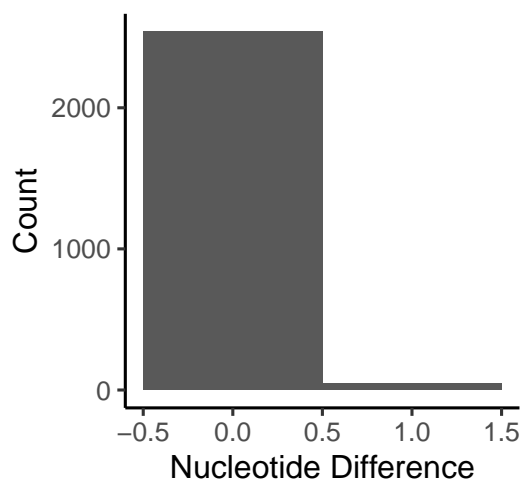
TRBV7-8*ap01

1199 sequences assigned
1176 (98.1%) exact matches, in which:
1141 unique CDR3
13 unique J



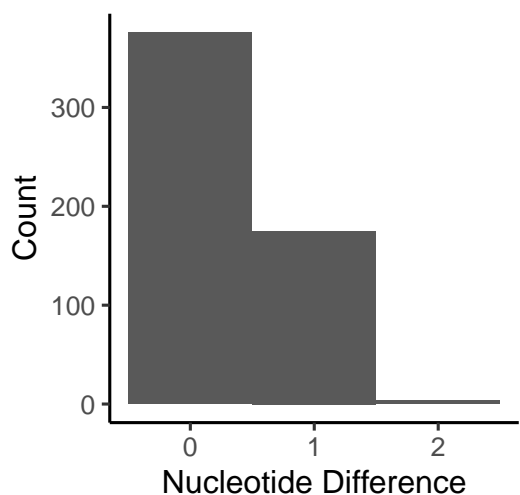
TRBV29-1*ap01

2582 sequences assigned
2539 (98.3%) exact matches, in which:
2456 unique CDR3
13 unique J



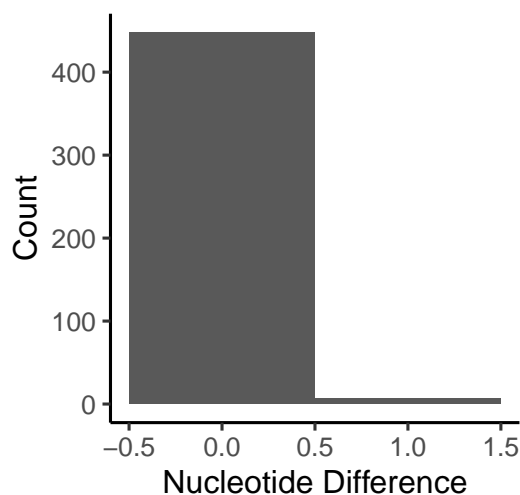
TRBV7-8*ap03

555 sequences assigned
376 (67.7%) exact matches, in which:
361 unique CDR3
13 unique J

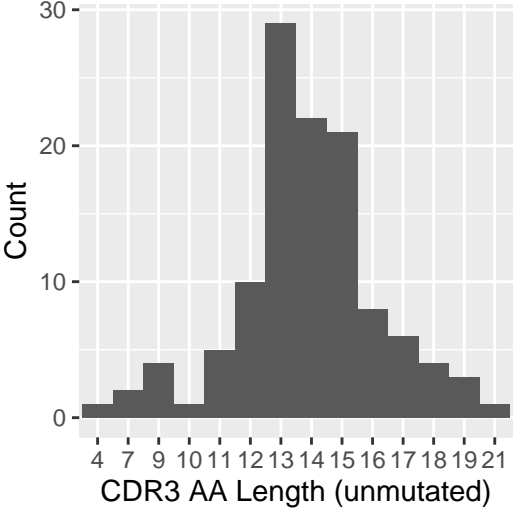


TRBV29-1*ap02

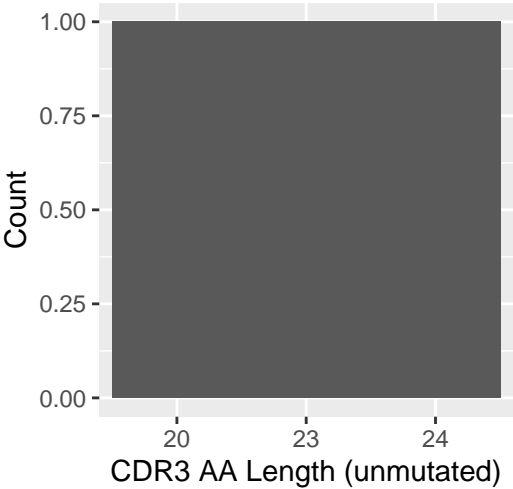
455 sequences assigned
448 (98.5%) exact matches, in which:
433 unique CDR3
13 unique J



TRBV12-2*ap01_G301A



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T

