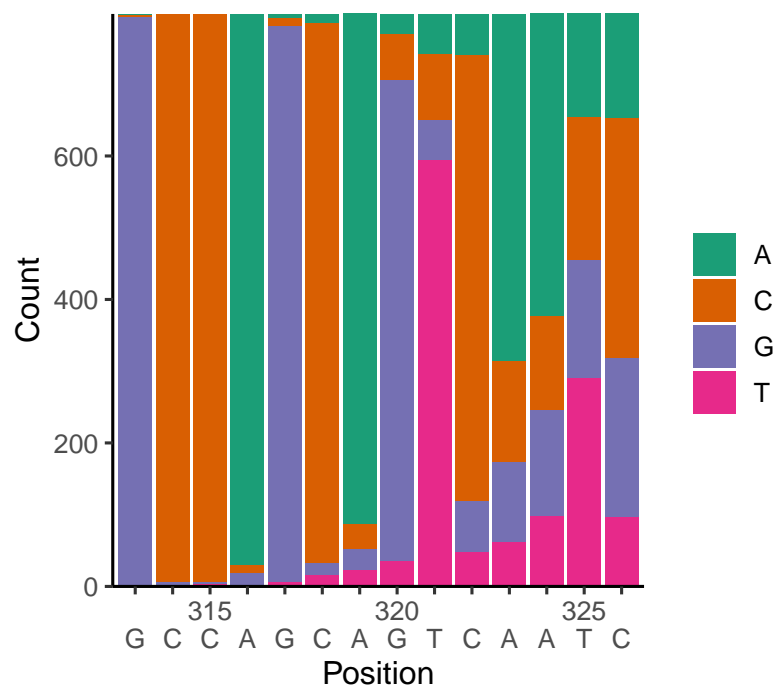
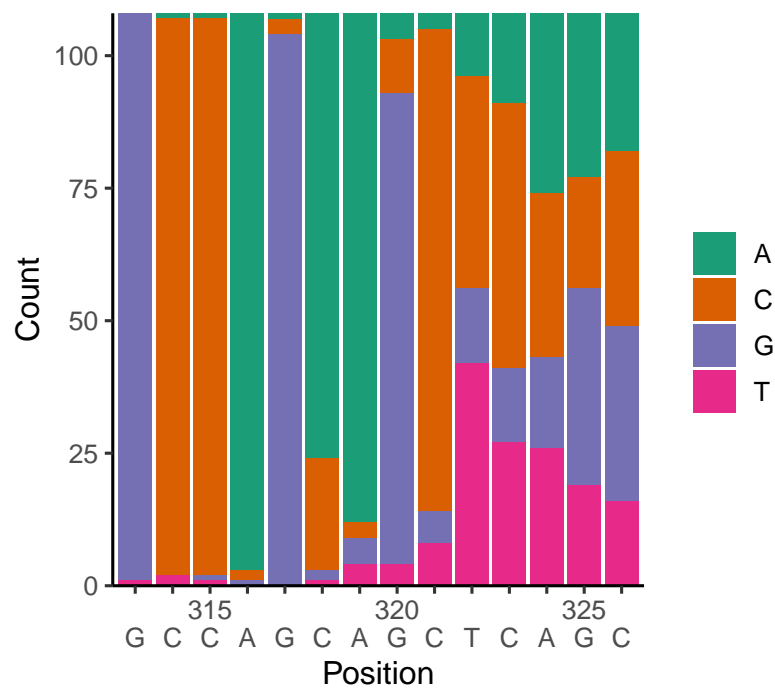


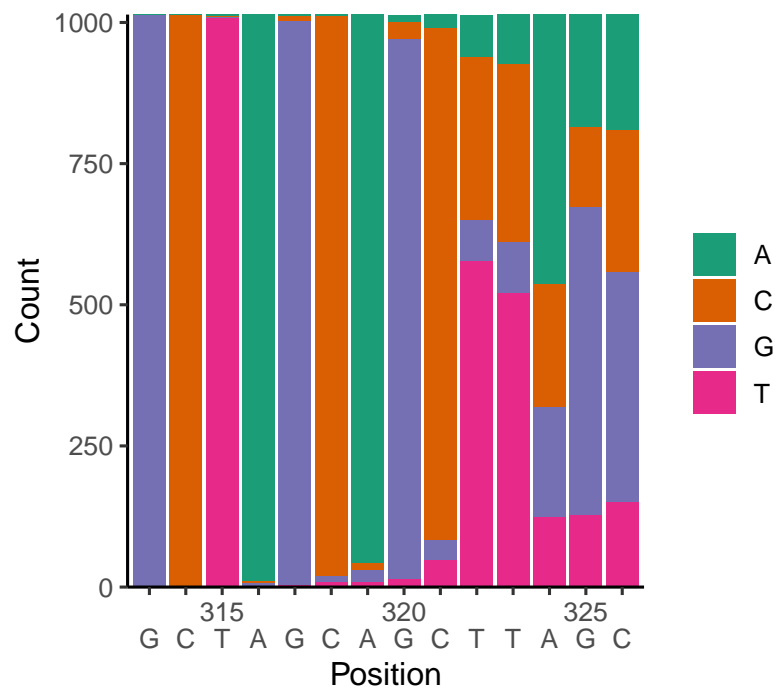
Gene TRBV23-1*ap01_T304C



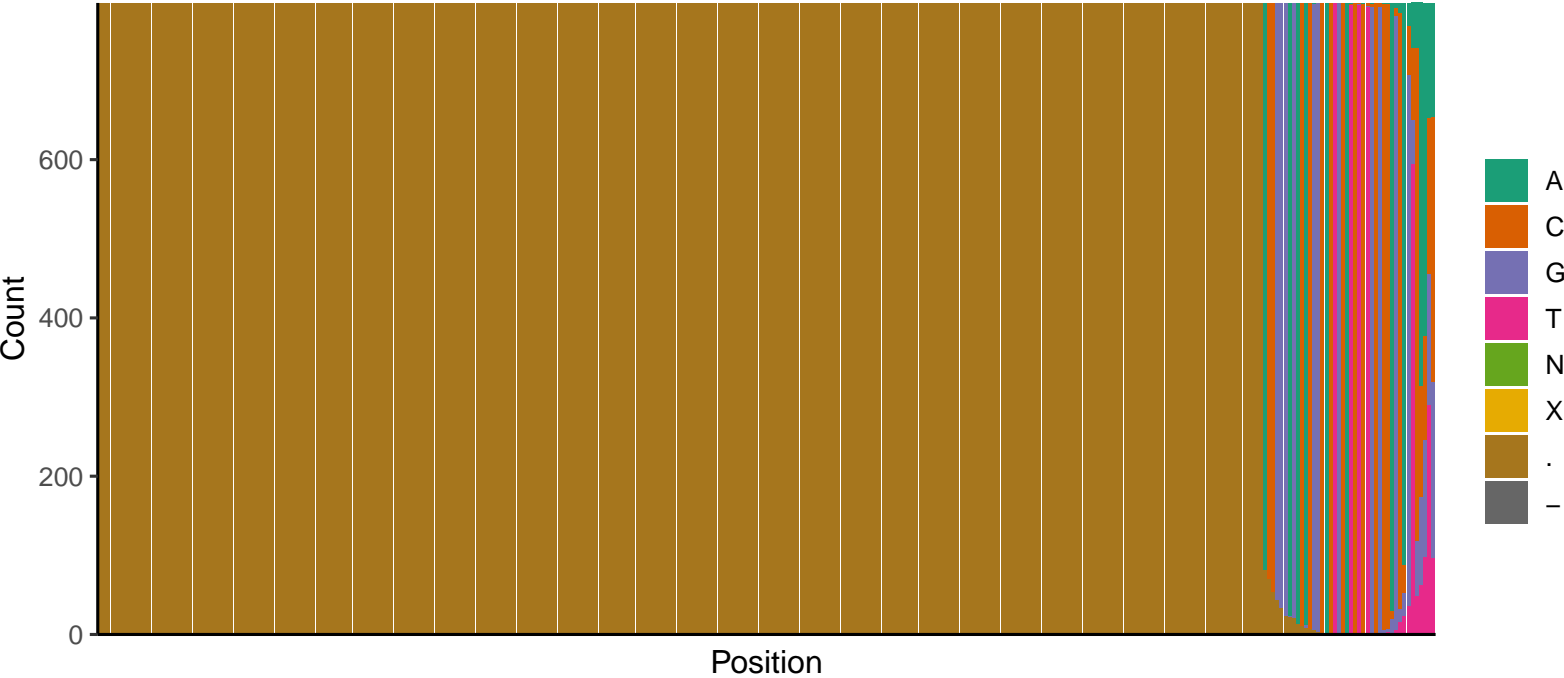
Gene TRBV7-1*ap01_T296C



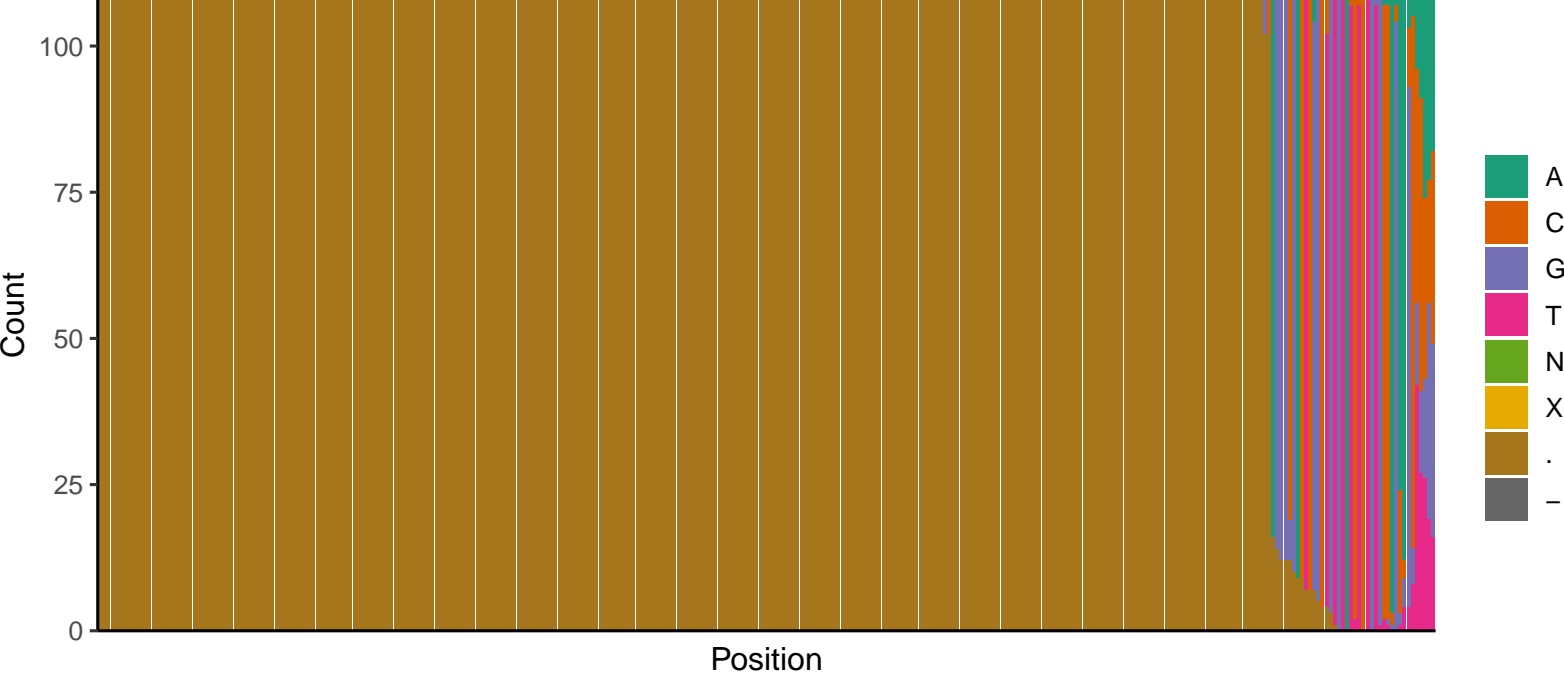
Gene TRBV7-7*ap01_C315T



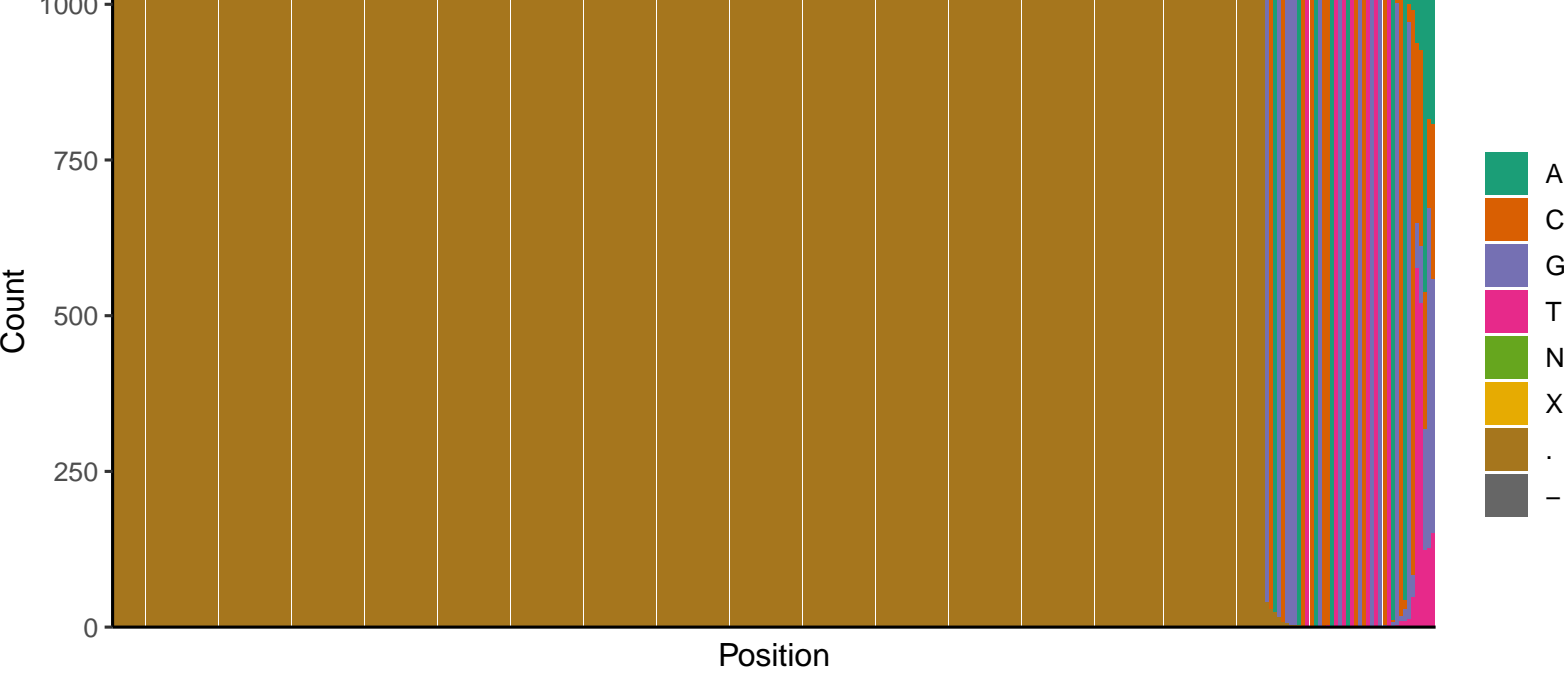
Gene TRBV23-1*ap01_T304C



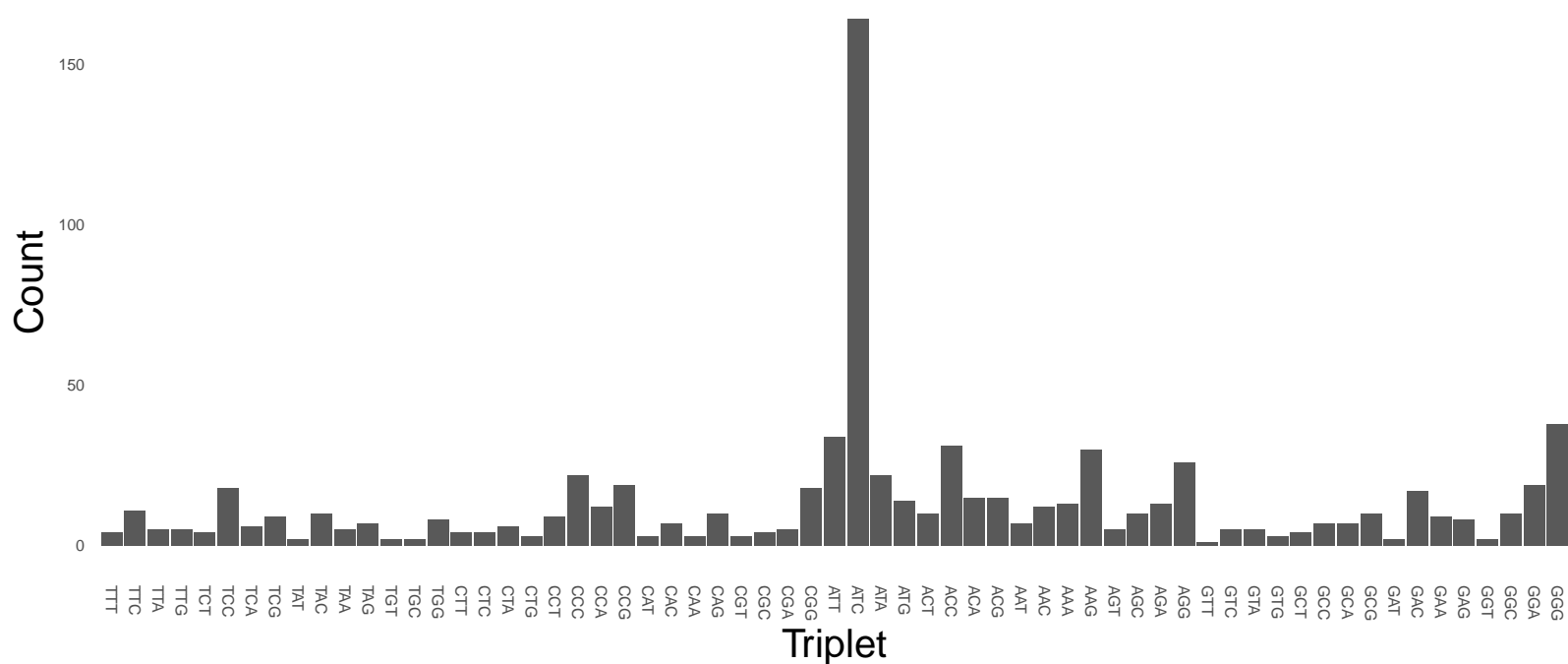
Gene TRBV7-1*ap01_T296C



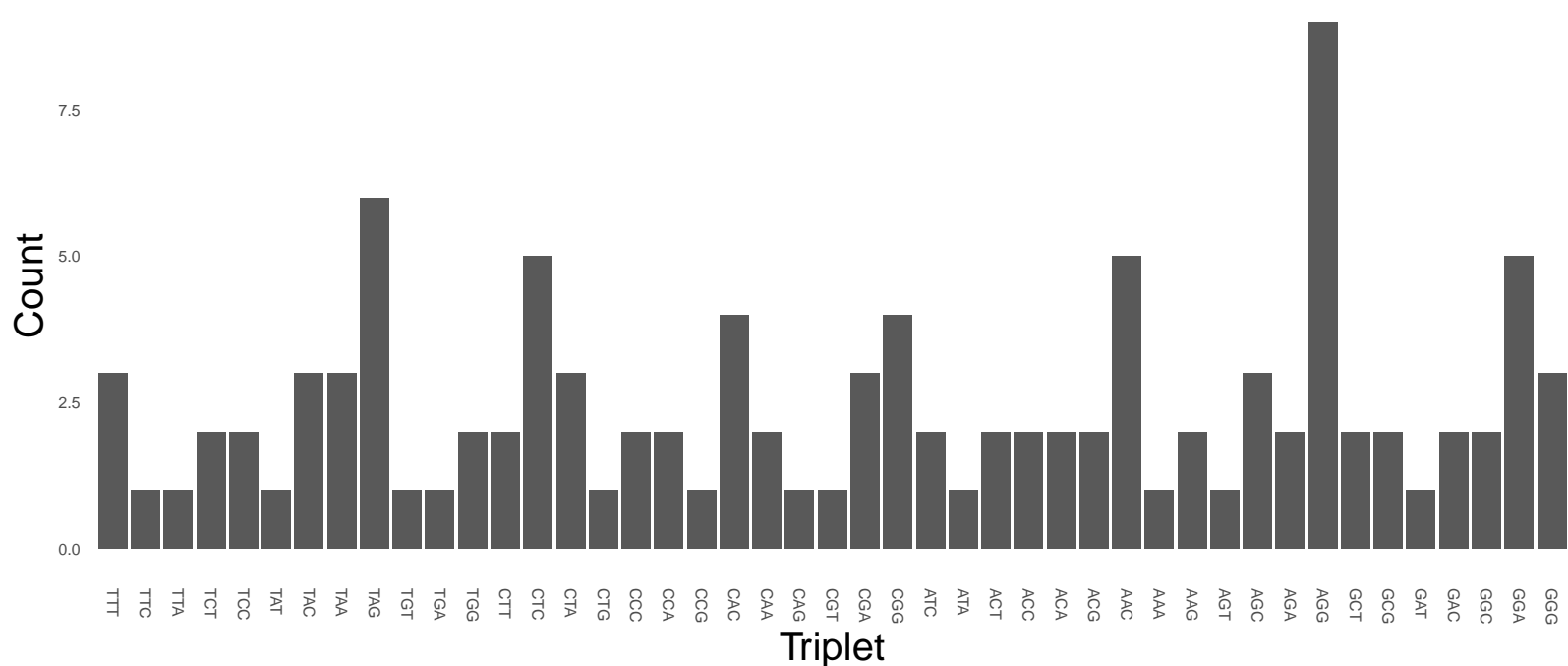
Gene TRBV7-7*ap01_C315T



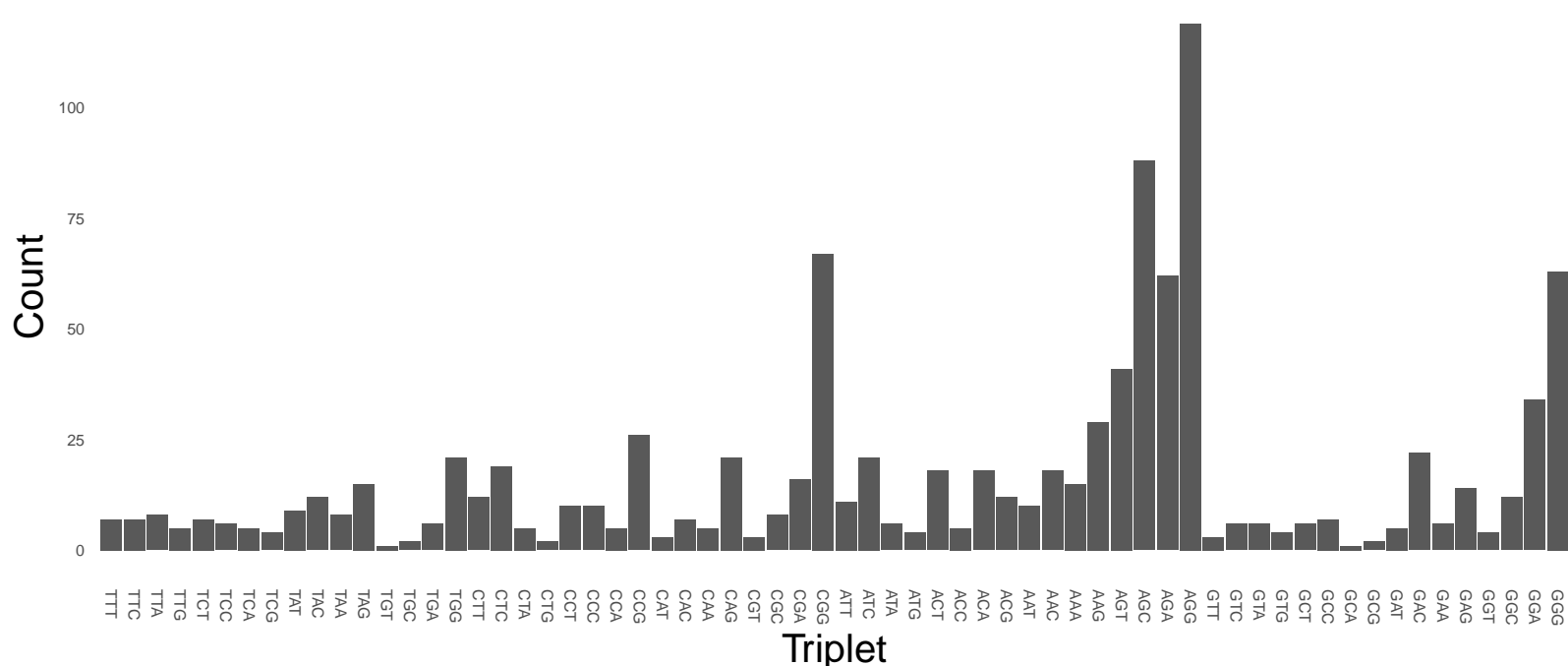
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



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

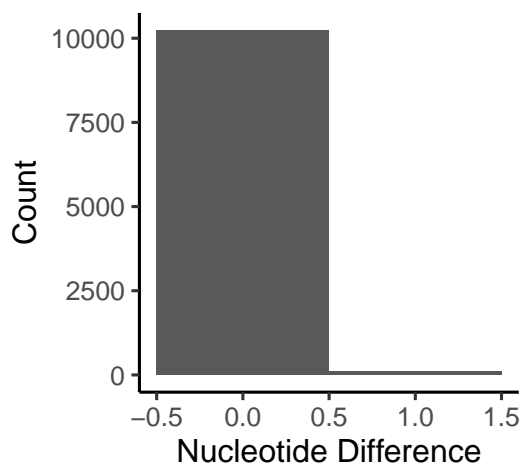


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



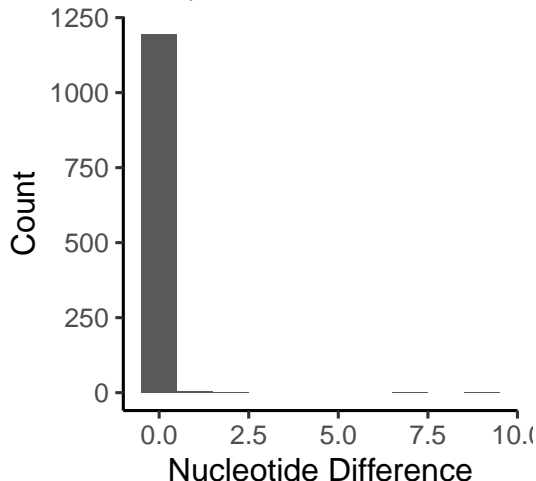
TRBV20-1*ap01

10351 sequences assigned
10240 (98.9%) exact matches, in which:
10020 unique CDR3
13 unique J



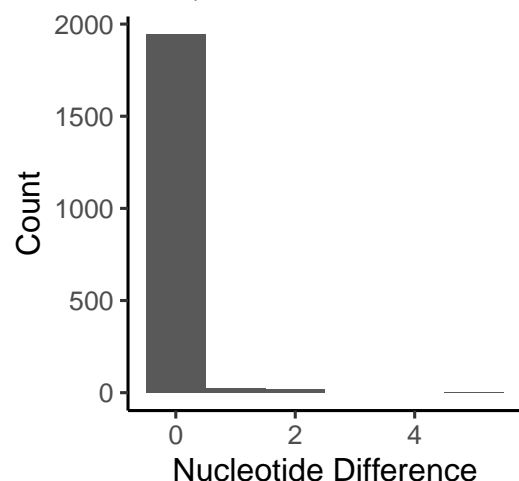
TRBV10-2*ap01

1203 sequences assigned
1194 (99.3%) exact matches, in which:
1160 unique CDR3
13 unique J



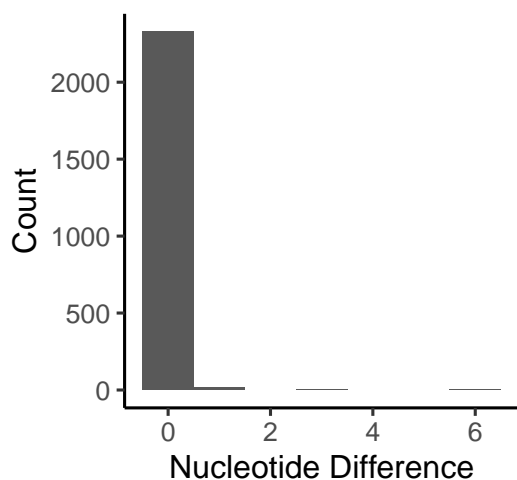
TRBV13*ap01

1988 sequences assigned
1944 (97.8%) exact matches, in which:
1881 unique CDR3
13 unique J



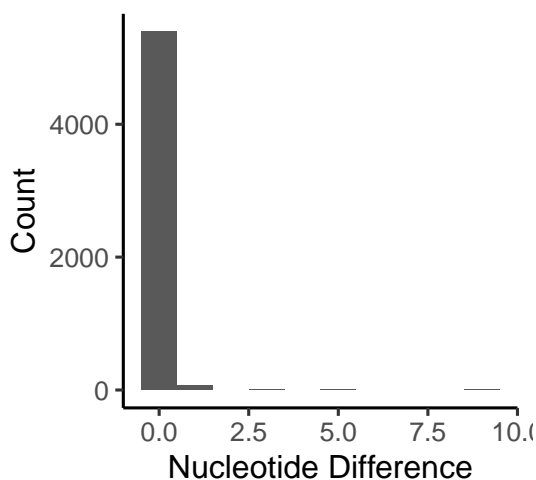
TRBV10-1*ap01

2347 sequences assigned
2328 (99.2%) exact matches, in which:
2258 unique CDR3
13 unique J



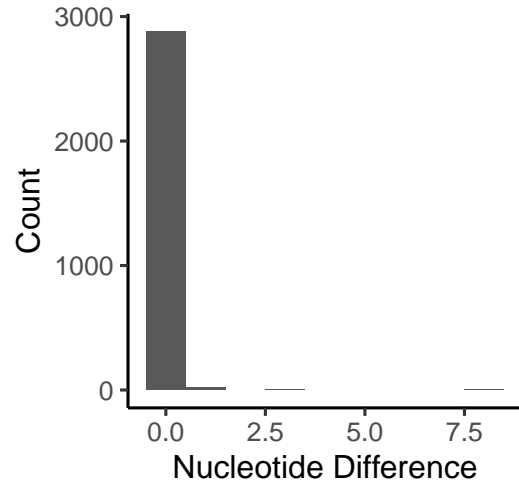
TRBV10-3*ap01

5459 sequences assigned
5393 (98.8%) exact matches, in which:
5255 unique CDR3
13 unique J



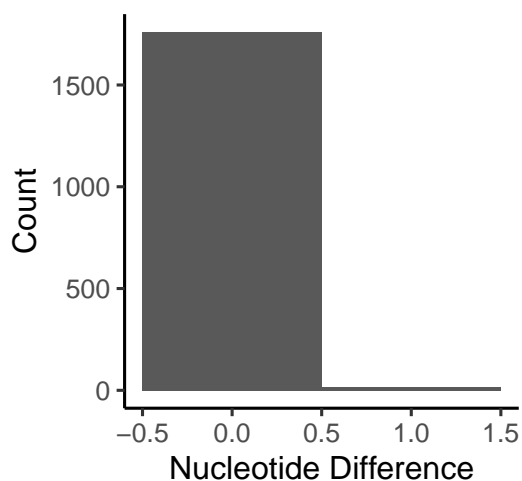
TRBV14*ap01

2899 sequences assigned
2878 (99.3%) exact matches, in which:
2821 unique CDR3
13 unique J



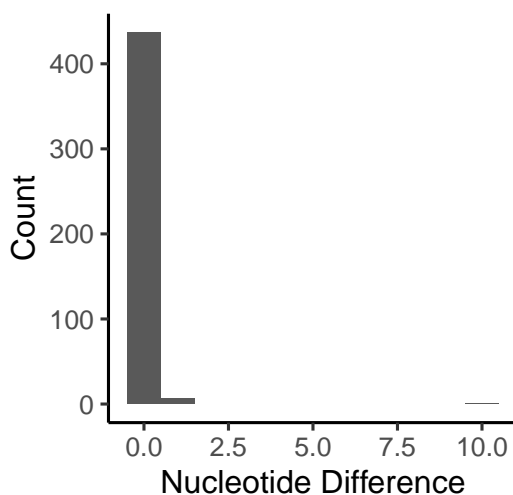
TRBV20-1*ap02

1776 sequences assigned
1760 (99.1%) exact matches, in which:
1736 unique CDR3
13 unique J



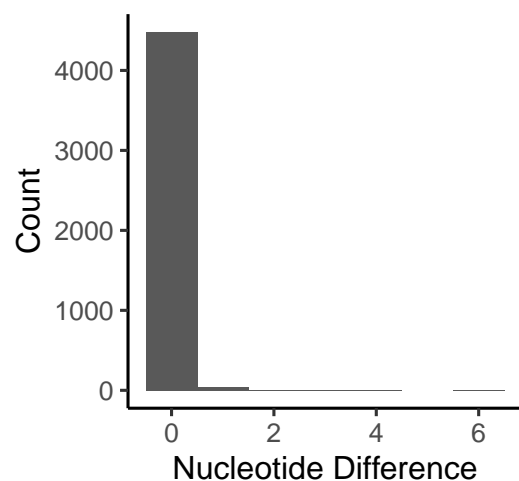
TRBV1*ap01

445 sequences assigned
437 (98.2%) exact matches, in which:
419 unique CDR3
13 unique J



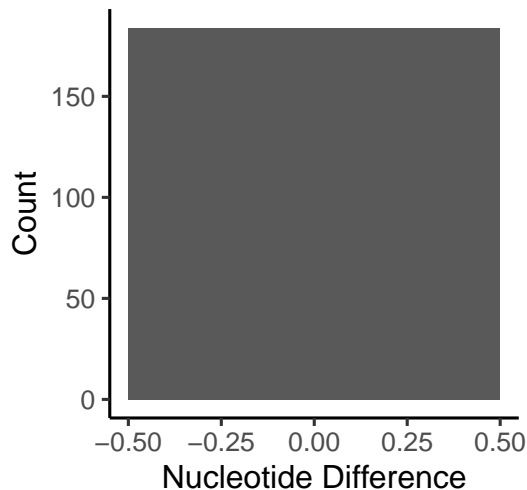
TRBV15*ap02

4529 sequences assigned
4480 (98.9%) exact matches, in which:
4373 unique CDR3
13 unique J



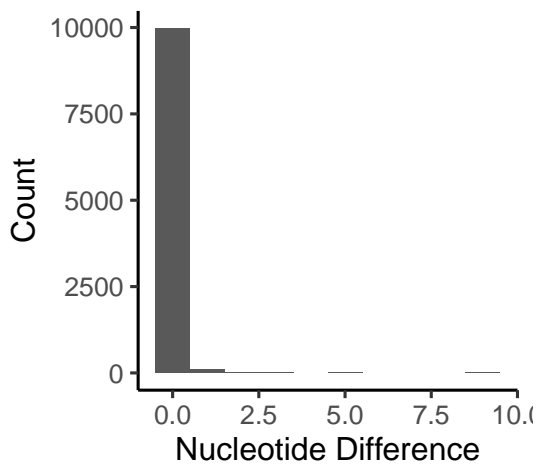
TRBV16*ap01

184 sequences assigned
184 (100%) exact matches, in which:
181 unique CDR3
13 unique J



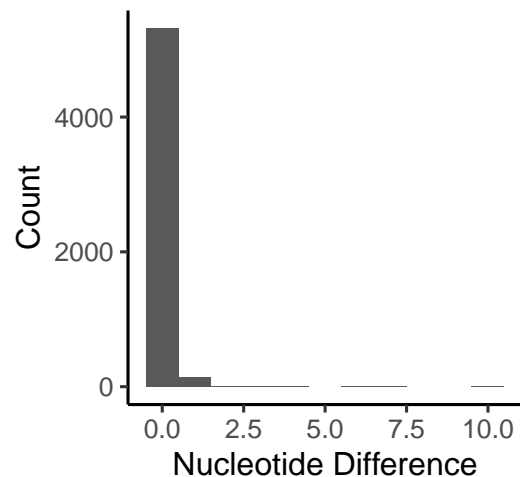
TRBV2*ap01

10097 sequences assigned
9982 (98.9%) exact matches, in which:
9723 unique CDR3
13 unique J



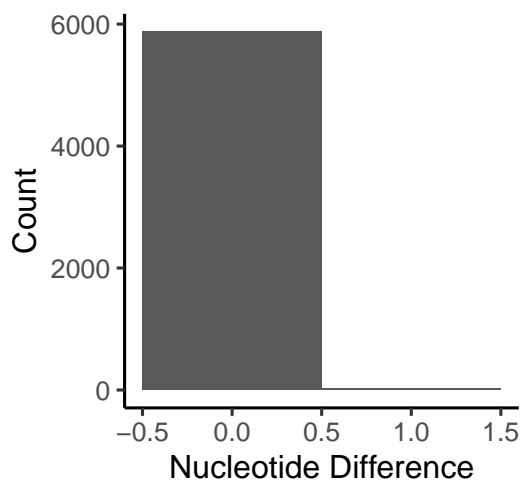
TRBV30*ap01

5471 sequences assigned
5315 (97.1%) exact matches, in which:
5203 unique CDR3
13 unique J



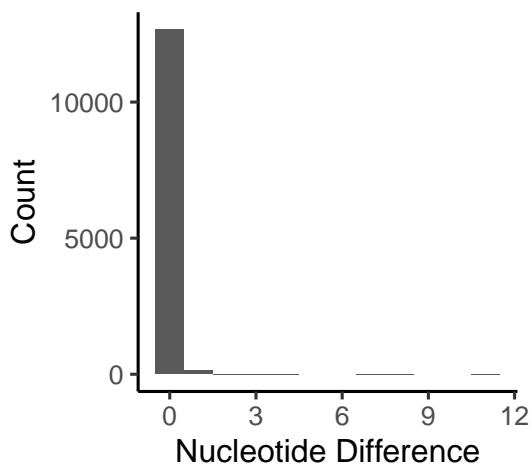
TRBV18*ap01

5902 sequences assigned
5875 (99.5%) exact matches, in which:
5812 unique CDR3
13 unique J



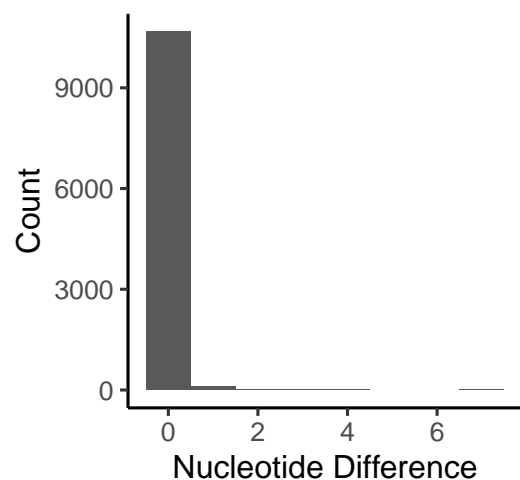
TRBV27*ap01

12824 sequences assigned
12667 (98.8%) exact matches, in which:
12308 unique CDR3
13 unique J



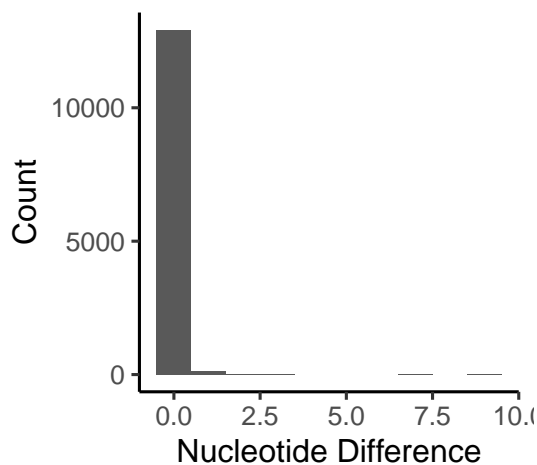
TRBV9*ap01

10792 sequences assigned
10670 (98.9%) exact matches, in which:
10470 unique CDR3
13 unique J



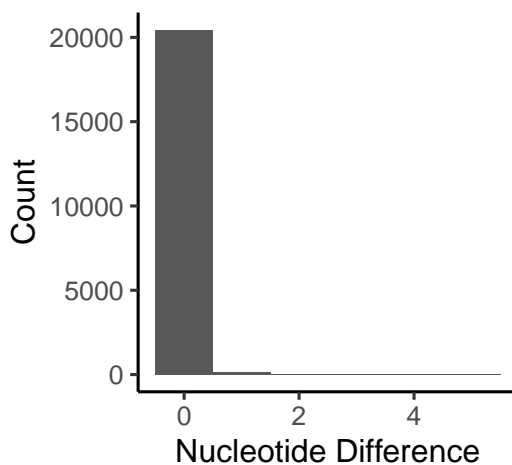
TRBV19*ap01

13050 sequences assigned
12923 (99%) exact matches, in which:
12770 unique CDR3
13 unique J



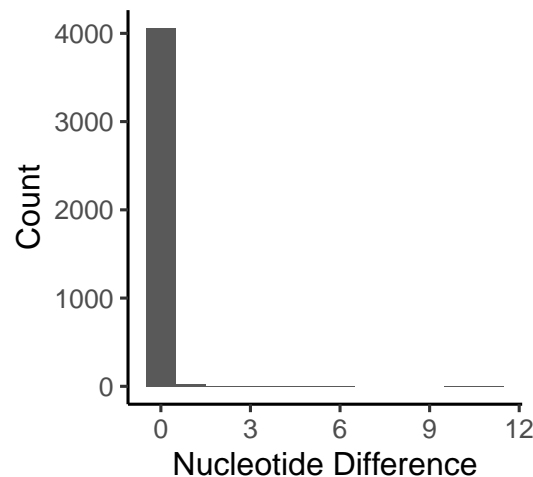
TRBV28*ap01

20605 sequences assigned
20450 (99.2%) exact matches, in which:
20093 unique CDR3
14 unique J



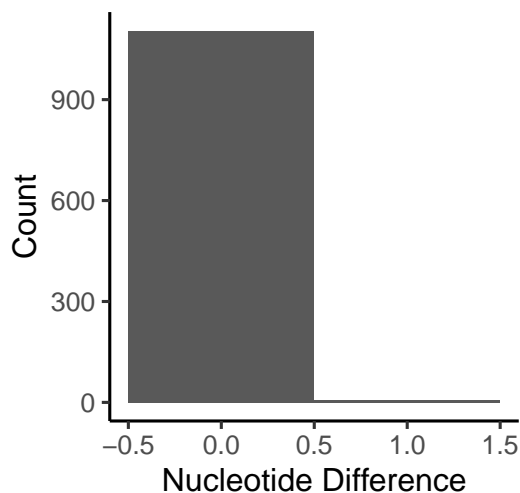
TRBV21-1*ap01

4110 sequences assigned
4060 (98.8%) exact matches, in which:
4002 unique CDR3
13 unique J



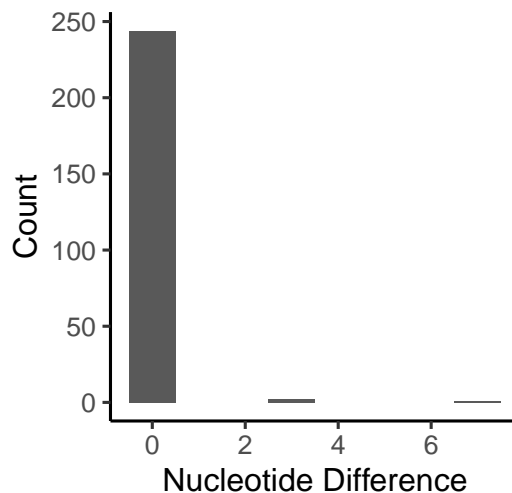
TRBV11-1*ap01

1113 sequences assigned
1105 (99.3%) exact matches, in which:
1094 unique CDR3
13 unique J



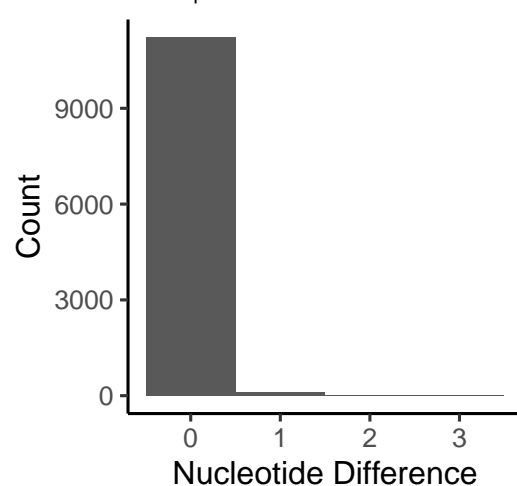
TRBV12-1*ap01

247 sequences assigned
244 (98.8%) exact matches, in which:
238 unique CDR3
13 unique J



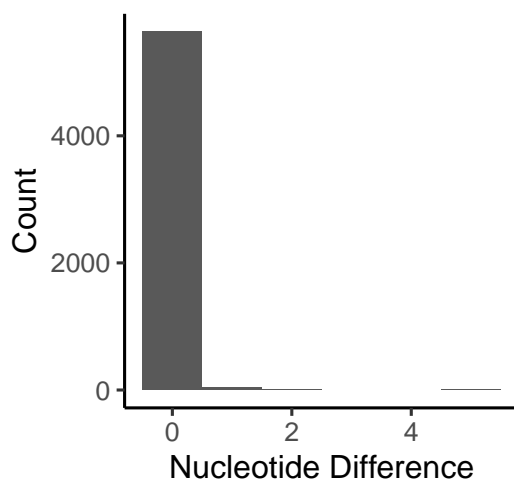
TRBV12-34*ap01

11327 sequences assigned
11221 (99.1%) exact matches, in which:
10961 unique CDR3
13 unique J



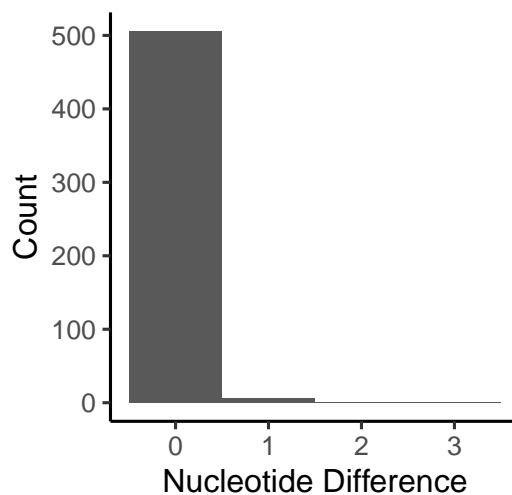
TRBV11-2*ap01

5687 sequences assigned
5638 (99.1%) exact matches, in which:
5526 unique CDR3
13 unique J



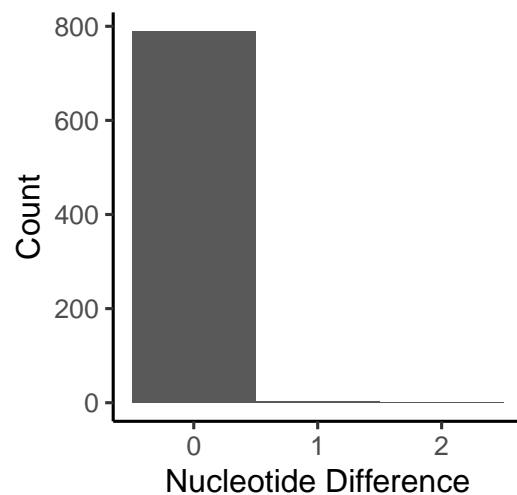
TRBV12-2*ap01

514 sequences assigned
506 (98.4%) exact matches, in which:
497 unique CDR3
13 unique J



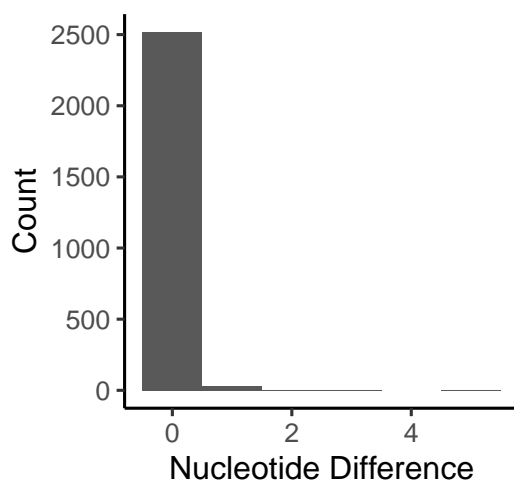
TRBV23-1*ap01

795 sequences assigned
790 (99.4%) exact matches, in which:
765 unique CDR3
13 unique J



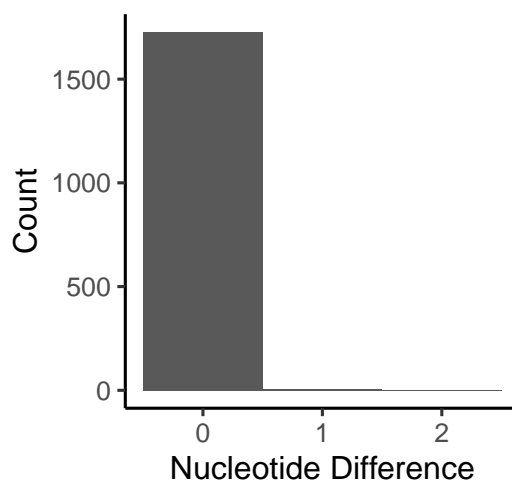
TRBV11-3*ap01

2551 sequences assigned
2518 (98.7%) exact matches, in which:
2477 unique CDR3
13 unique J



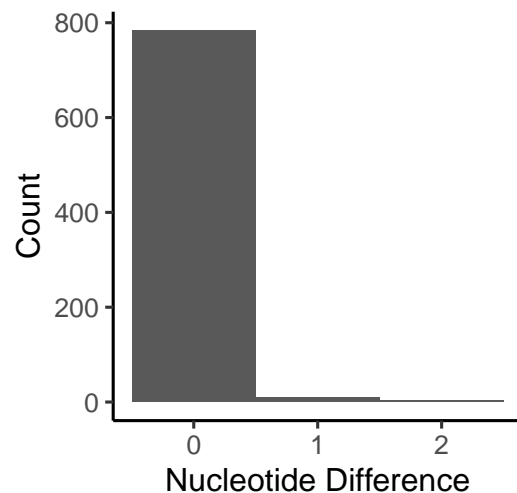
TRBV12-5*ap01

1736 sequences assigned
1727 (99.5%) exact matches, in which:
1701 unique CDR3
13 unique J



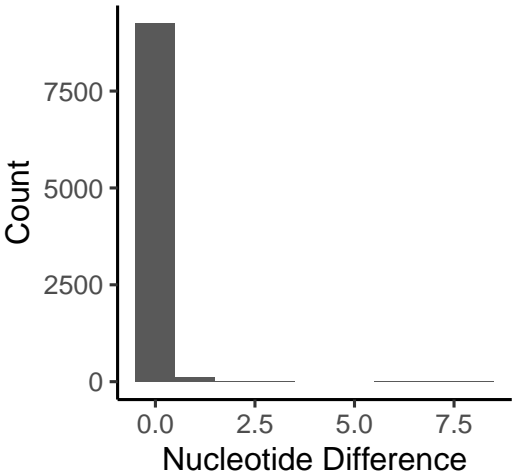
TRBV23-1*ap01_T304C

798 sequences assigned
784 (98.2%) exact matches, in which:
773 unique CDR3
13 unique J



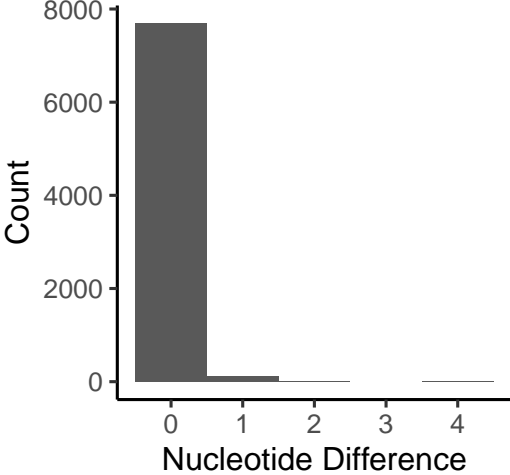
TRBV3-12*ap01

9370 sequences assigned
9246 (98.7%) exact matches, in which:
9014 unique CDR3
13 unique J



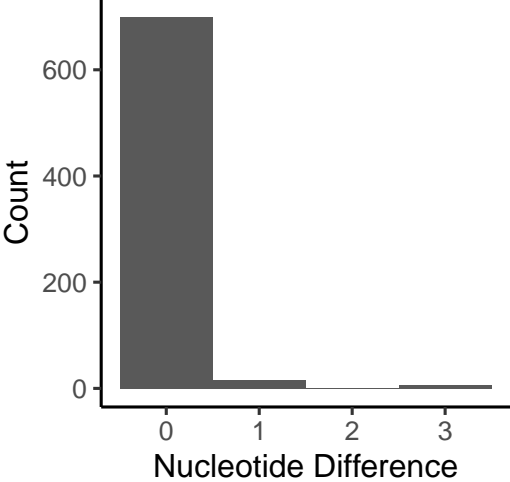
TRBV4-2*ap01

7814 sequences assigned
7691 (98.4%) exact matches, in which:
7472 unique CDR3
13 unique J



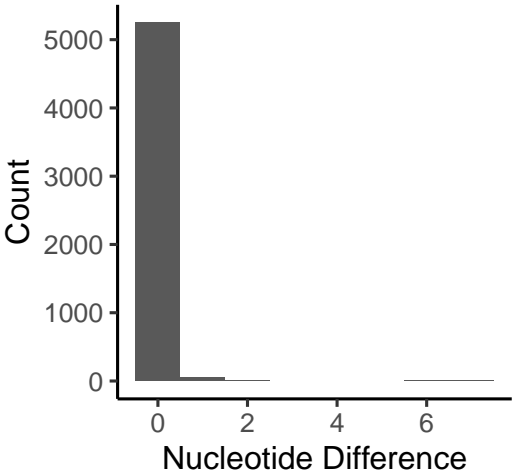
TRBV5-3*ap01

724 sequences assigned
700 (96.7%) exact matches, in which:
689 unique CDR3
13 unique J



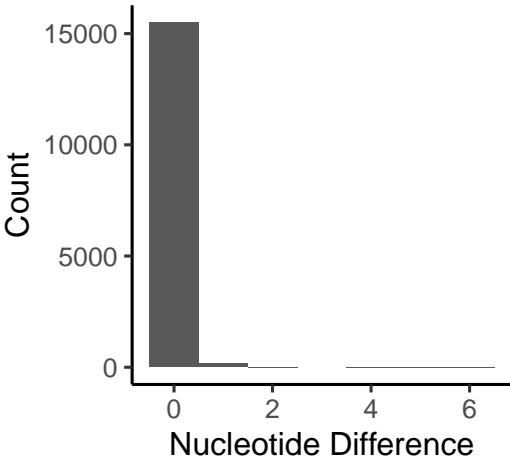
TRBV4-1*ap01

5308 sequences assigned
5248 (98.9%) exact matches, in which:
5108 unique CDR3
13 unique J



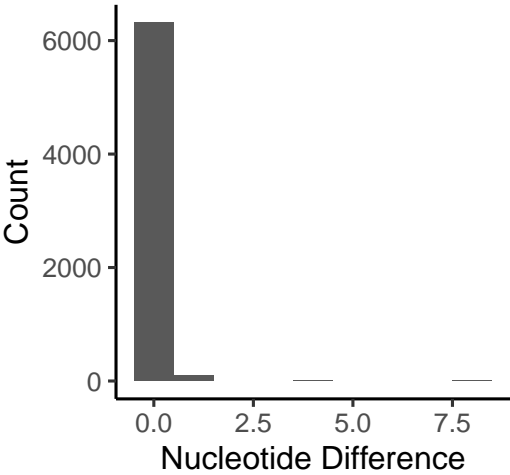
TRBV5-1*ap01

15683 sequences assigned
15501 (98.8%) exact matches, in which:
15043 unique CDR3
13 unique J



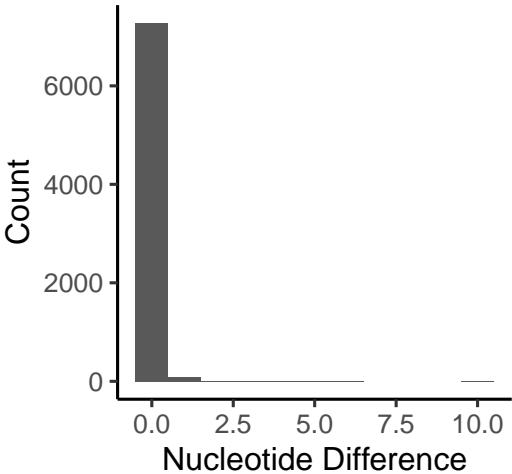
TRBV5-4*ap01

6410 sequences assigned
6315 (98.5%) exact matches, in which:
6151 unique CDR3
13 unique J



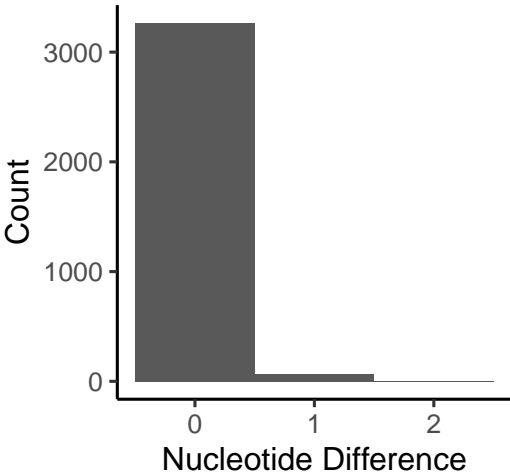
TRBV24-1*ap01

7371 sequences assigned
7275 (98.7%) exact matches, in which:
7092 unique CDR3
13 unique J



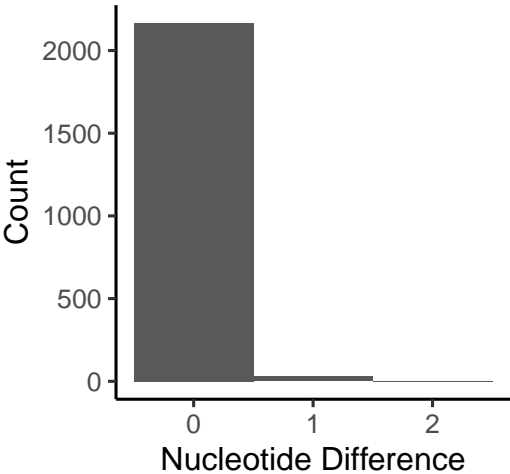
TRBV25-1*ap01

3334 sequences assigned
3265 (97.9%) exact matches, in which:
3172 unique CDR3
13 unique J



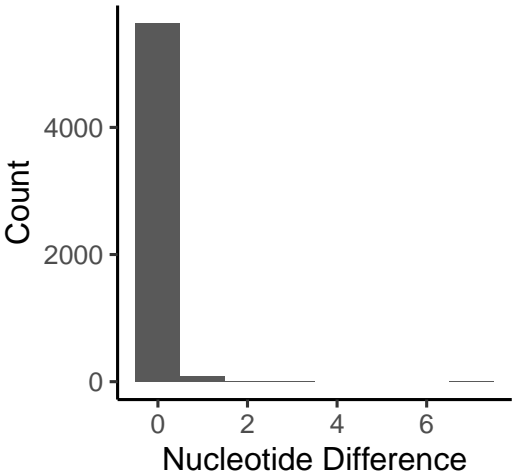
TRBV5-5*ap01

2195 sequences assigned
2166 (98.7%) exact matches, in which:
2142 unique CDR3
13 unique J



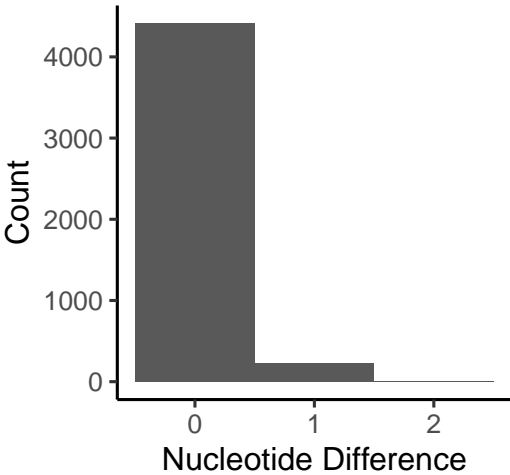
TRBV5-6*ap01

5725 sequences assigned
5636 (98.4%) exact matches, in which:
5443 unique CDR3
13 unique J



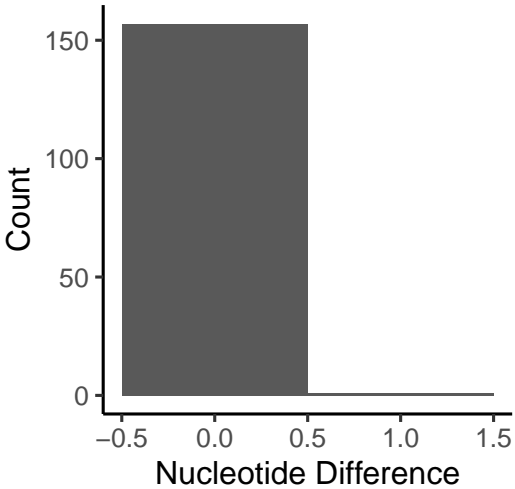
TRBV6-1*ap01

4638 sequences assigned
4412 (95.1%) exact matches, in which:
4286 unique CDR3
13 unique J



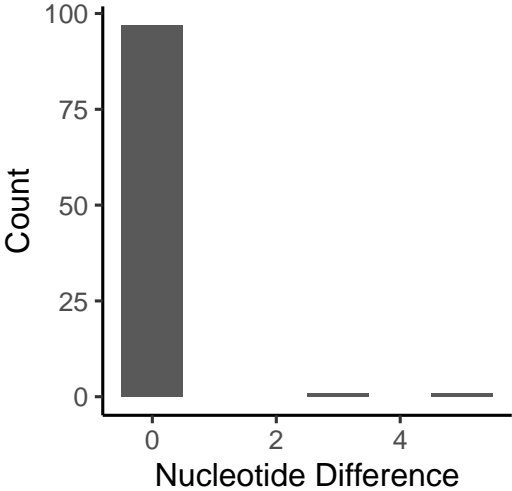
TRBV6-8*ap01

158 sequences assigned
157 (99.4%) exact matches, in which:
149 unique CDR3
12 unique J



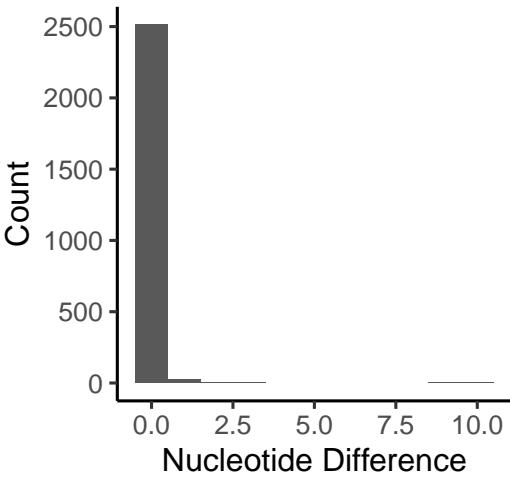
TRBV5-7*ap01

99 sequences assigned
97 (98%) exact matches, in which:
95 unique CDR3
13 unique J



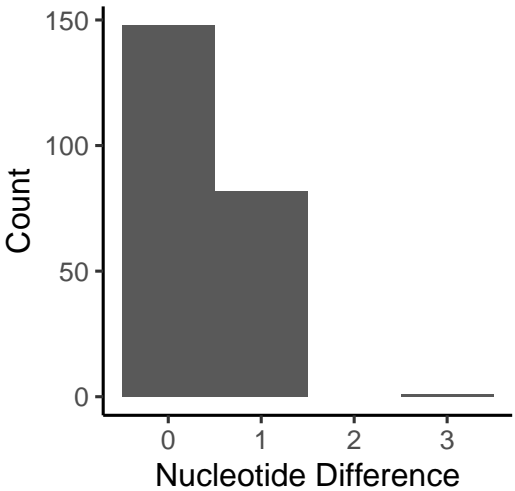
TRBV6-4*ap01

2543 sequences assigned
2513 (98.8%) exact matches, in which:
2471 unique CDR3
13 unique J



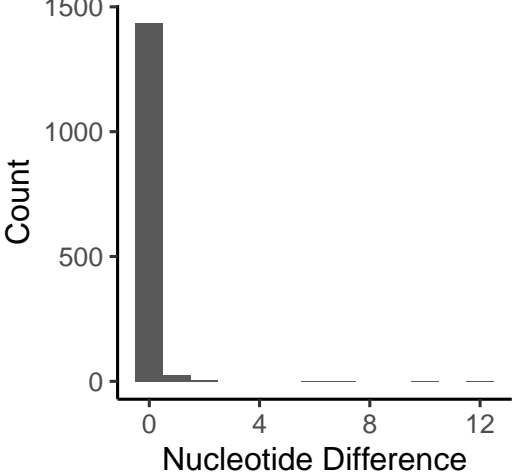
TRBV6-9*ap01

231 sequences assigned
148 (64.1%) exact matches, in which:
144 unique CDR3
13 unique J



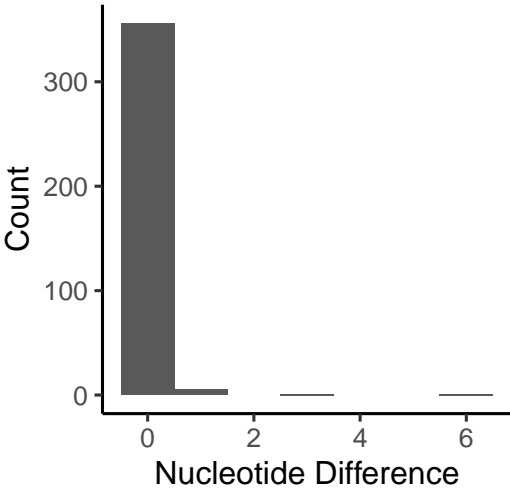
TRBV5-8*ap01

1469 sequences assigned
1435 (97.7%) exact matches, in which:
1410 unique CDR3
13 unique J



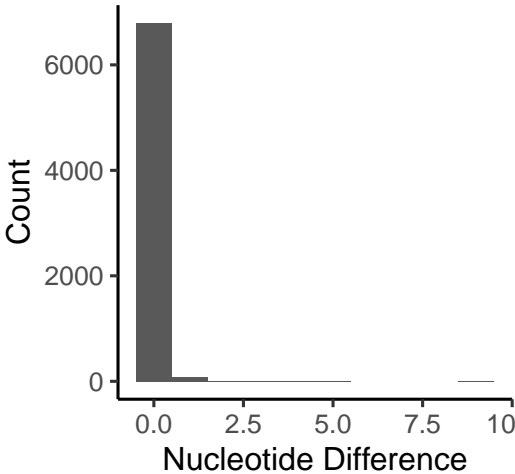
TRBV6-7*ap01

363 sequences assigned
356 (98.1%) exact matches, in which:
344 unique CDR3
13 unique J



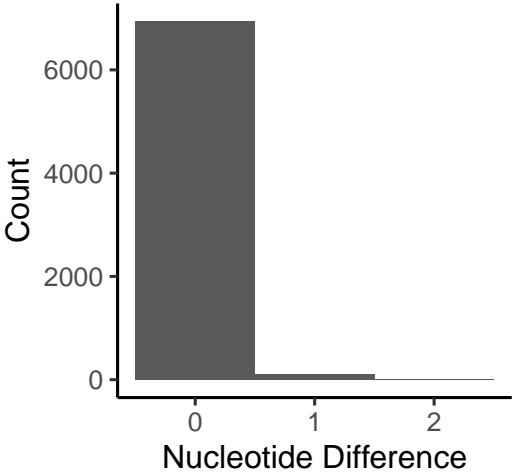
TRBV6-23*ap01

6882 sequences assigned
6793 (98.7%) exact matches, in which:
6567 unique CDR3
13 unique J



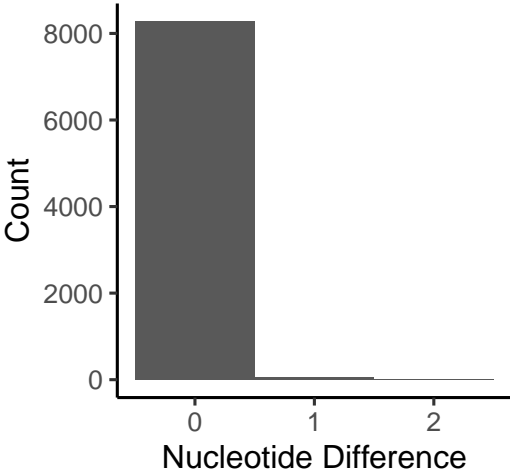
TRBV6-56*ap01

7037 sequences assigned
6939 (98.6%) exact matches, in which:
6730 unique CDR3
13 unique J



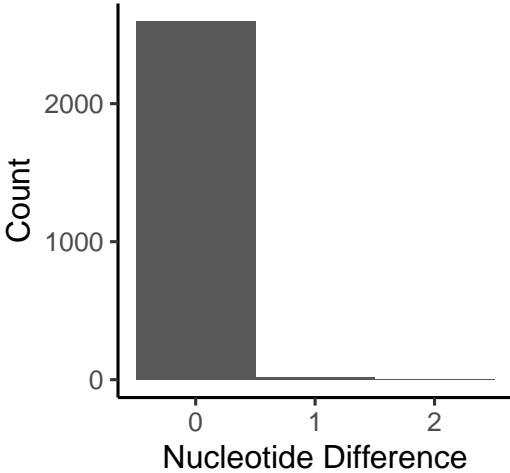
TRBV7-2*ap01

8336 sequences assigned
8278 (99.3%) exact matches, in which:
8118 unique CDR3
13 unique J



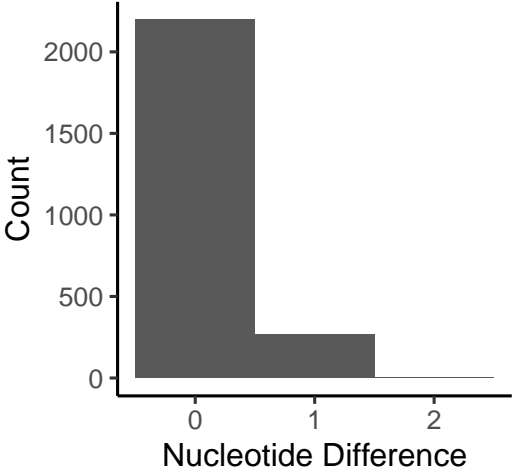
TRBV7-6*ap01

2615 sequences assigned
2596 (99.3%) exact matches, in which:
2522 unique CDR3
13 unique J



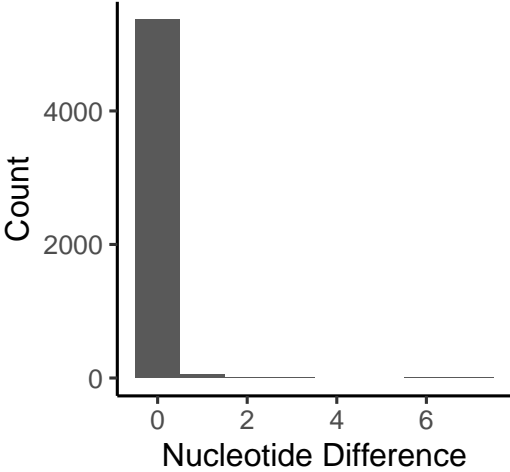
TRBV6-56*ap02

2467 sequences assigned
2197 (89.1%) exact matches, in which:
2133 unique CDR3
13 unique J



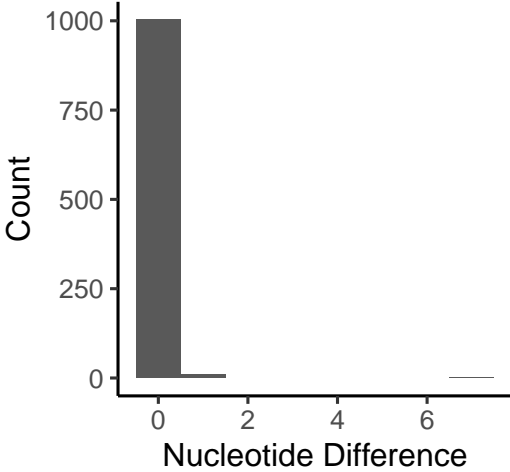
TRBV7-3*ap01

5428 sequences assigned
5366 (98.9%) exact matches, in which:
5305 unique CDR3
13 unique J



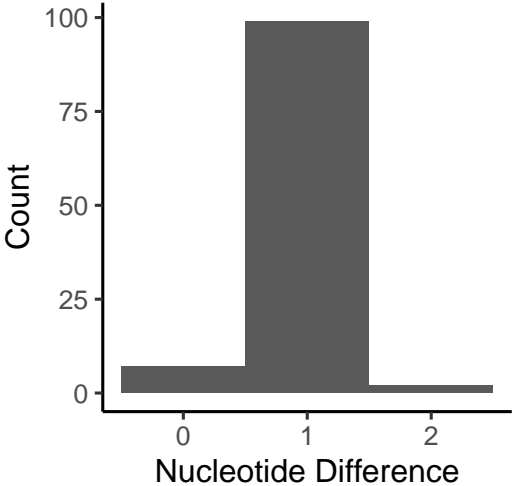
TRBV7-7*ap01_C315T

1014 sequences assigned
1003 (98.9%) exact matches, in which:
980 unique CDR3
13 unique J



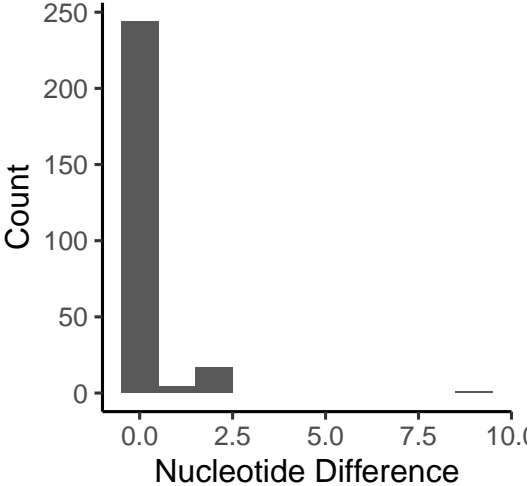
TRBV7-1*ap01_T296C

108 sequences assigned
7 (6.5%) exact matches, in which:
7 unique CDR3
5 unique J



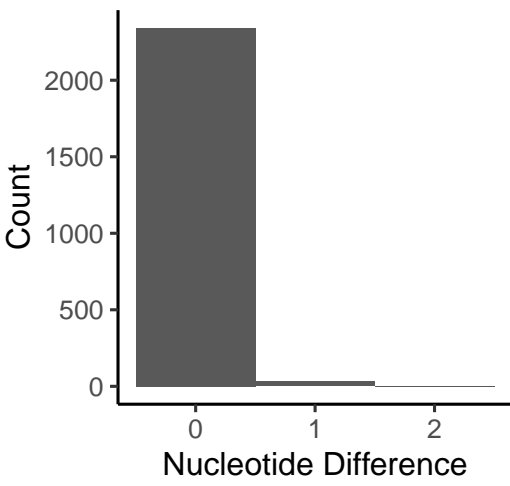
TRBV7-4*ap01

266 sequences assigned
244 (91.7%) exact matches, in which:
239 unique CDR3
13 unique J



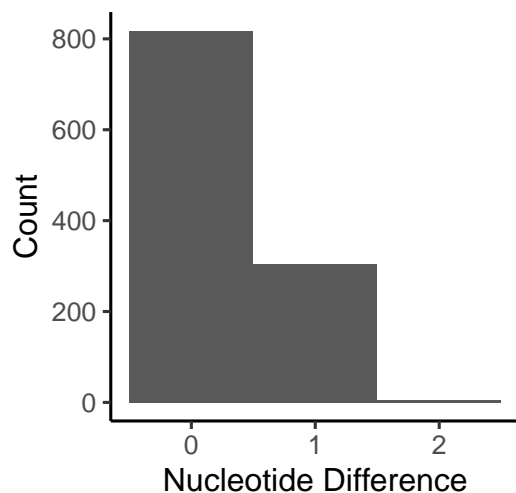
TRBV7-8*ap01

2373 sequences assigned
2341 (98.7%) exact matches, in which:
2287 unique CDR3
13 unique J



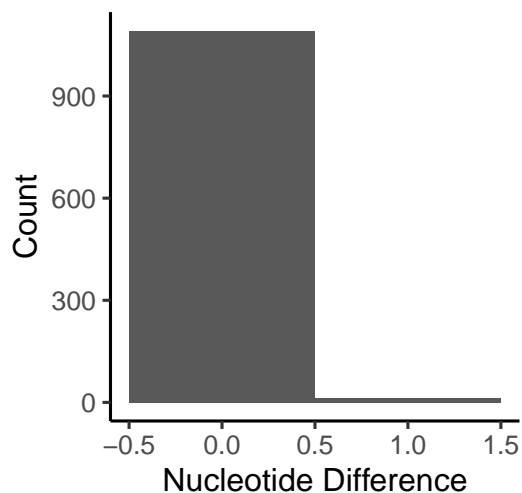
TRBV7–8*ap03

1128 sequences assigned
818 (72.5%) exact matches, in which:
797 unique CDR3
13 unique J



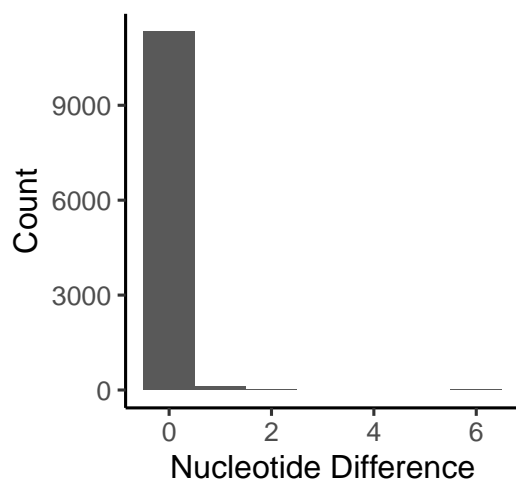
TRBV29–1*ap02

1105 sequences assigned
1092 (98.8%) exact matches, in which:
1063 unique CDR3
13 unique J



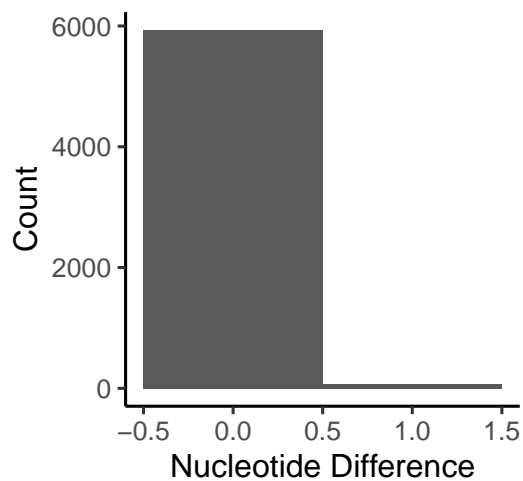
TRBV7–9*ap01

11424 sequences assigned
11325 (99.1%) exact matches, in which:
11127 unique CDR3
13 unique J

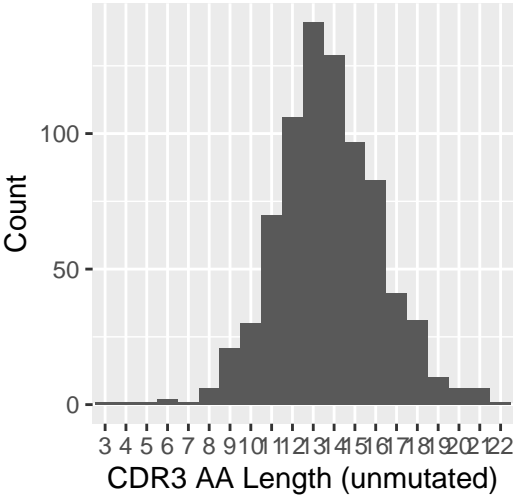


TRBV29–1*ap01

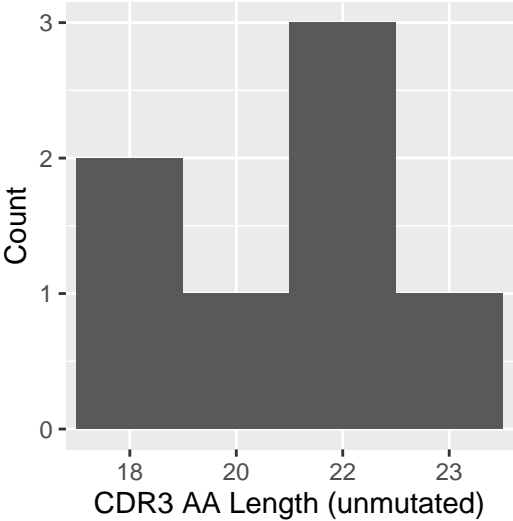
6008 sequences assigned
5933 (98.8%) exact matches, in which:
5762 unique CDR3
13 unique J



TRBV23-1*ap01_T304C



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T

