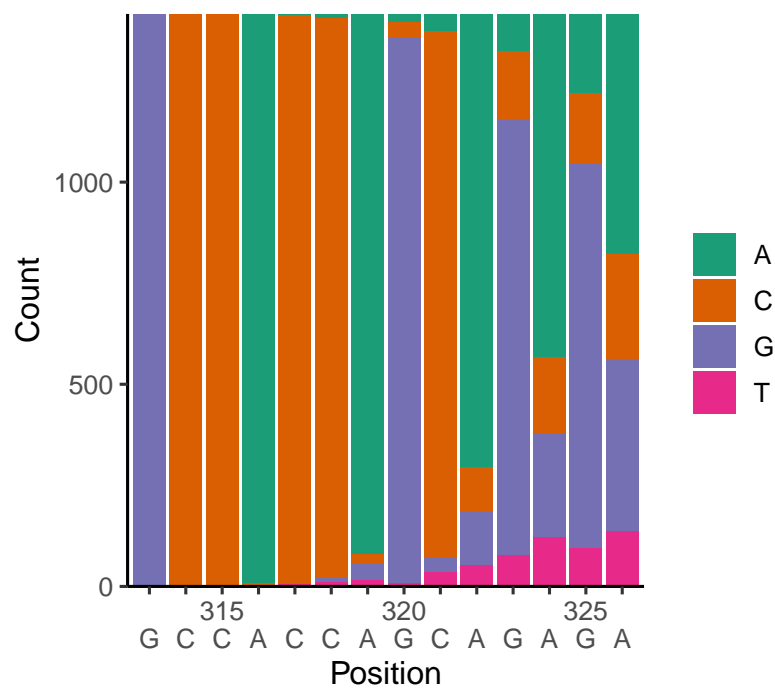
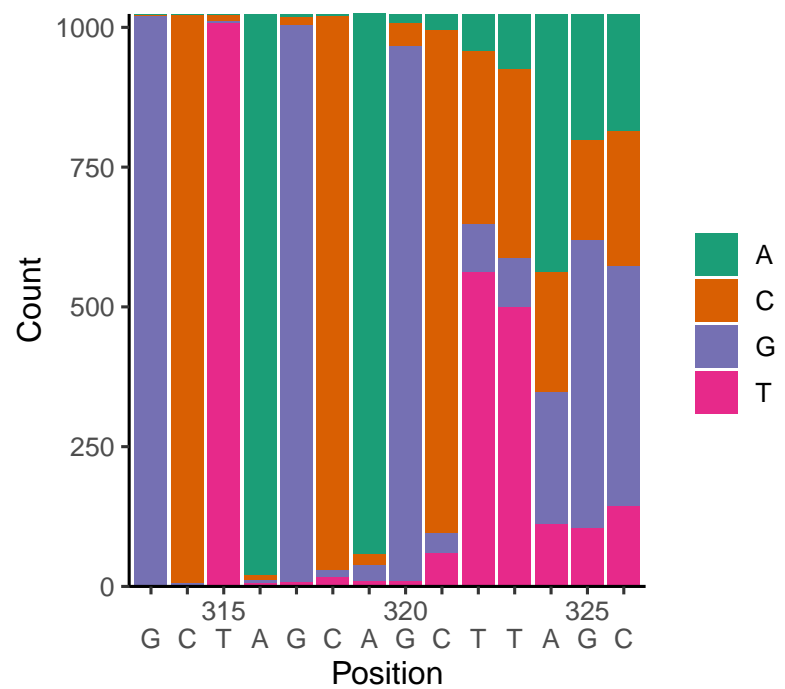


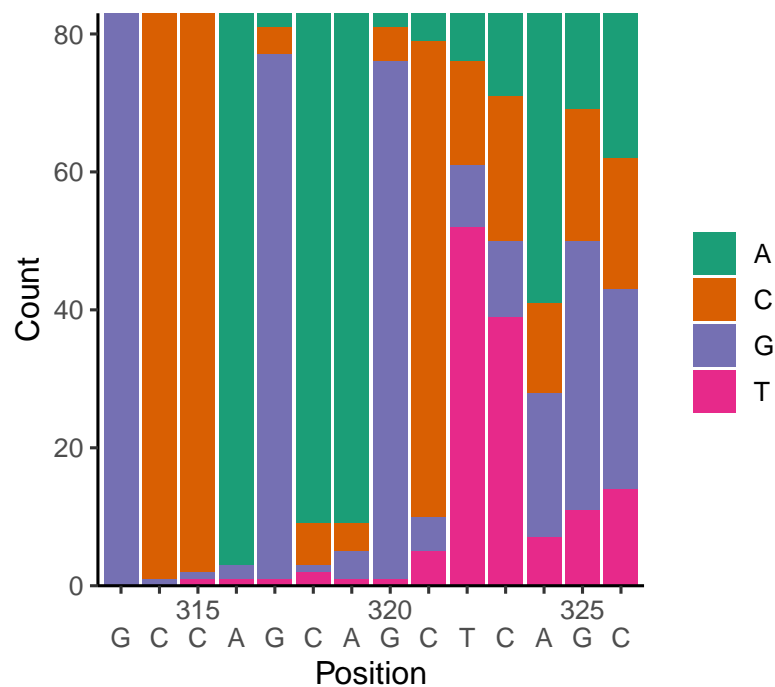
Gene TRBV15*ap02_C296T



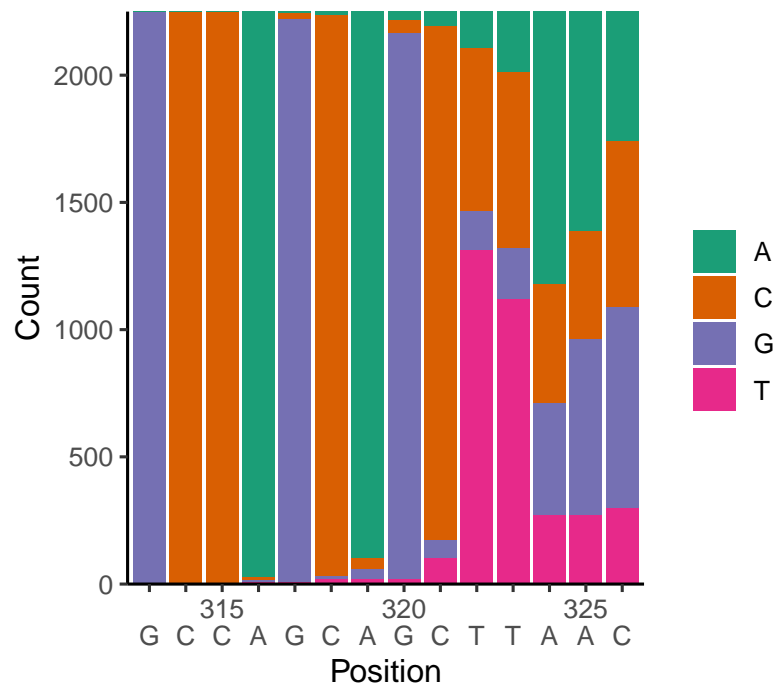
Gene TRBV7-7*ap01_C315T



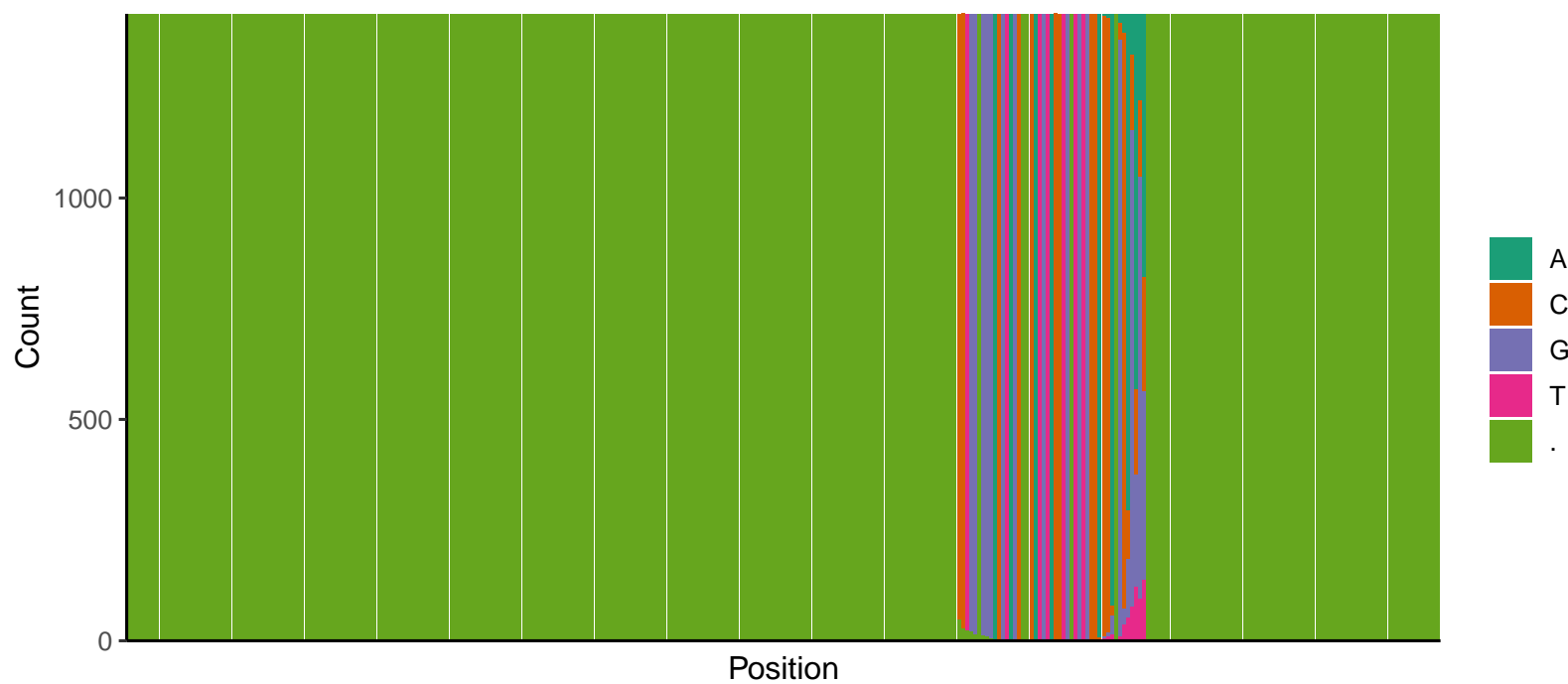
Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-3*ap01_G301A



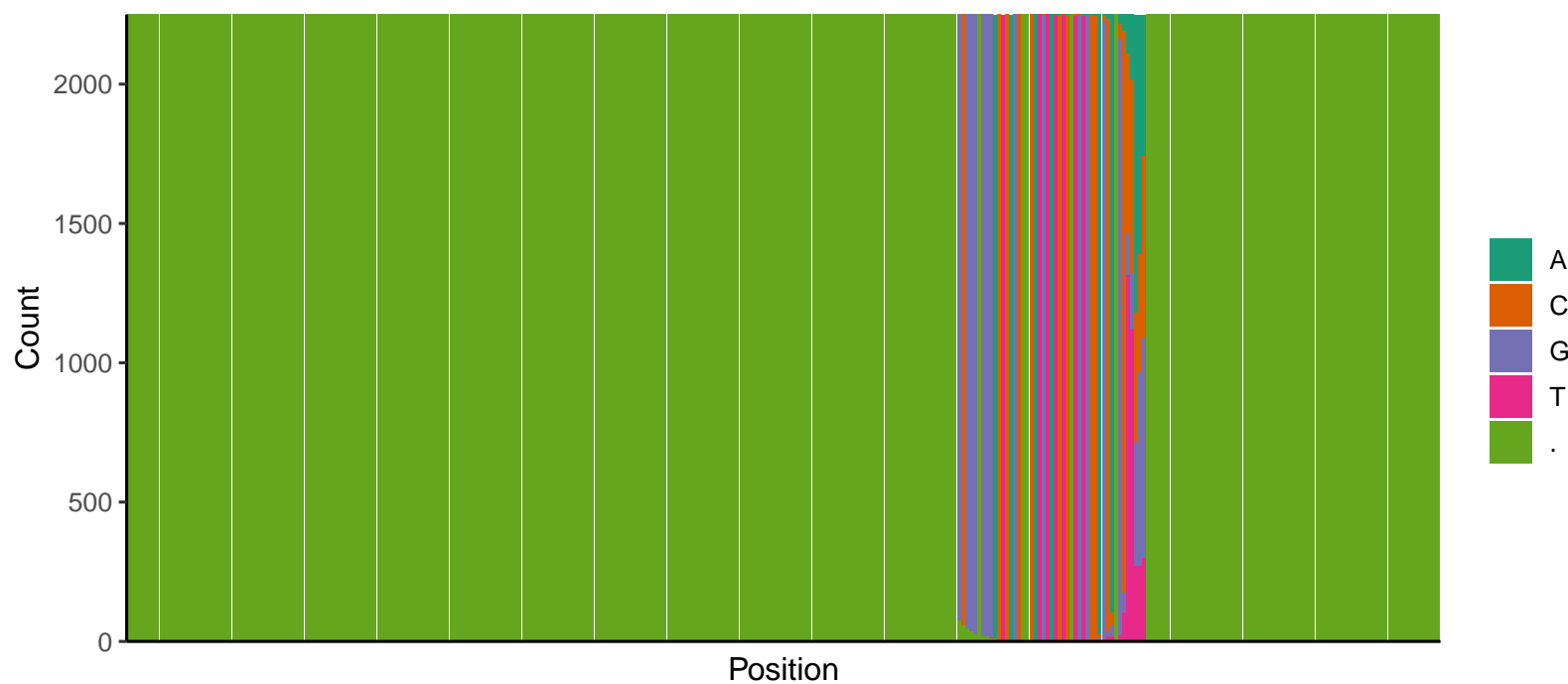
Gene TRBV15*ap02_C296T



Gene TRBV7-1*ap01_G291C_T296C



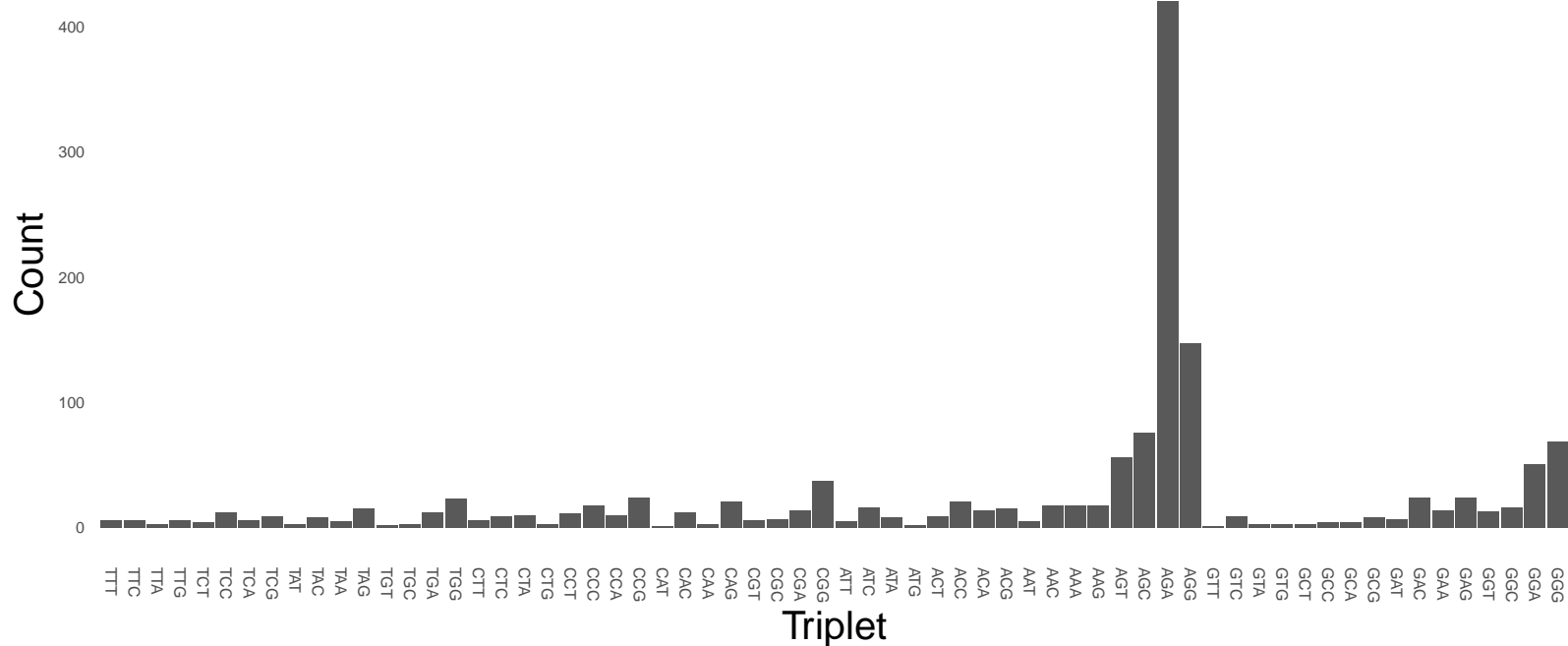
Gene TRBV7-3*ap01_G301A



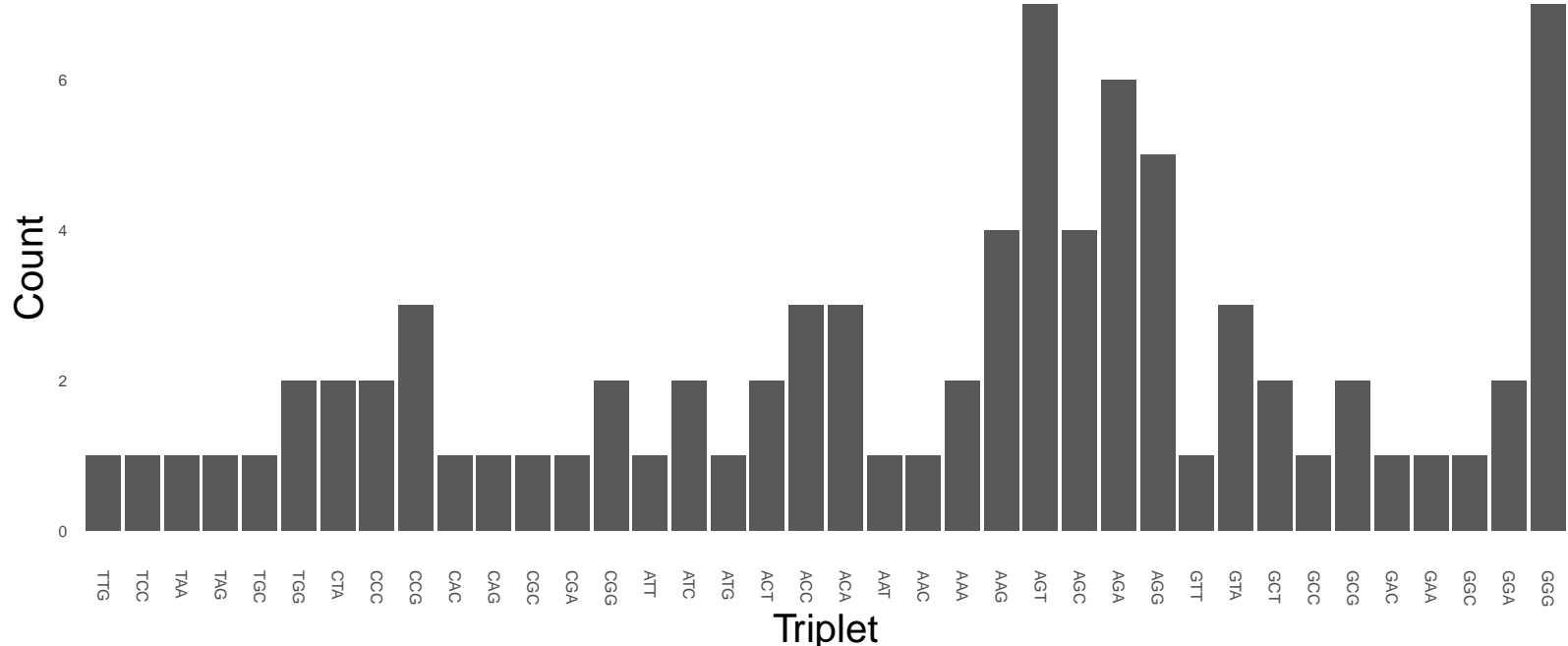
Gene TRBV7-7*ap01_C315T



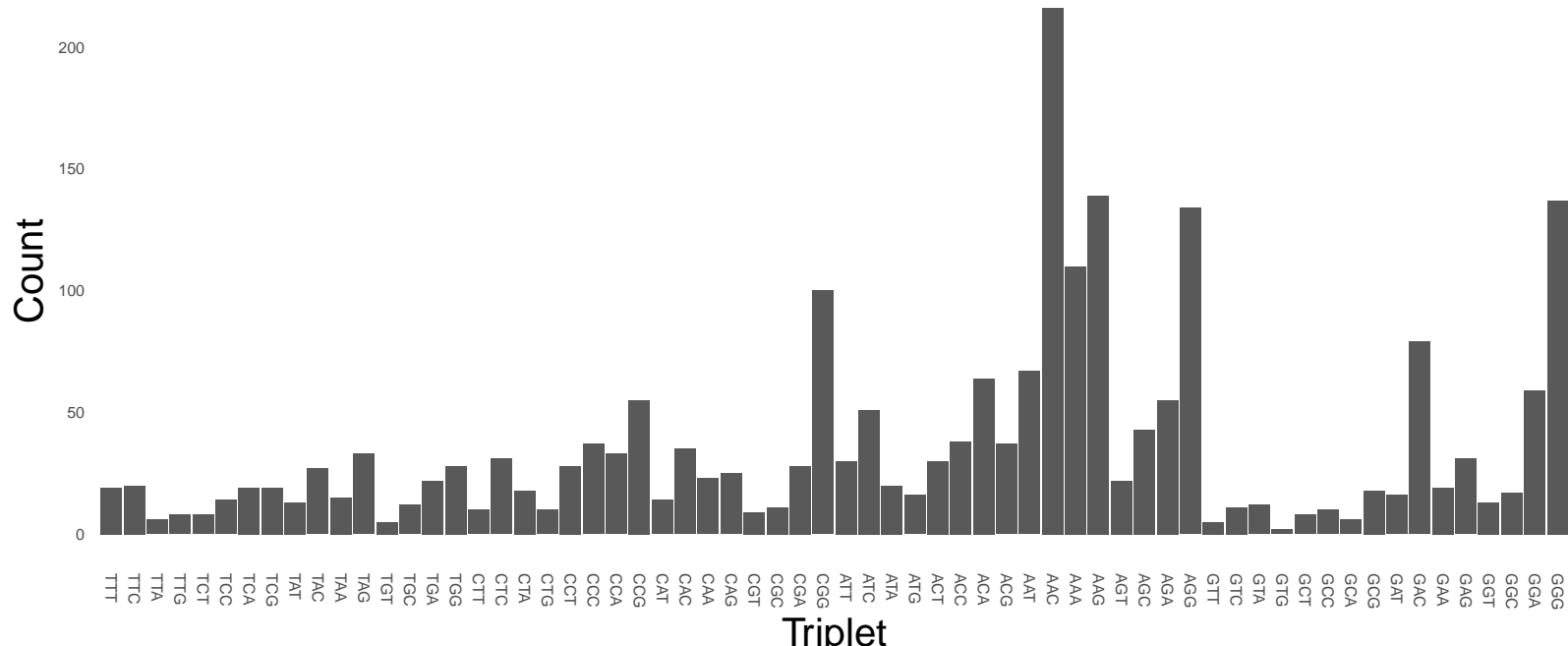
TRBV15*ap02_C296T– Final 3 nucleotides as a triplet



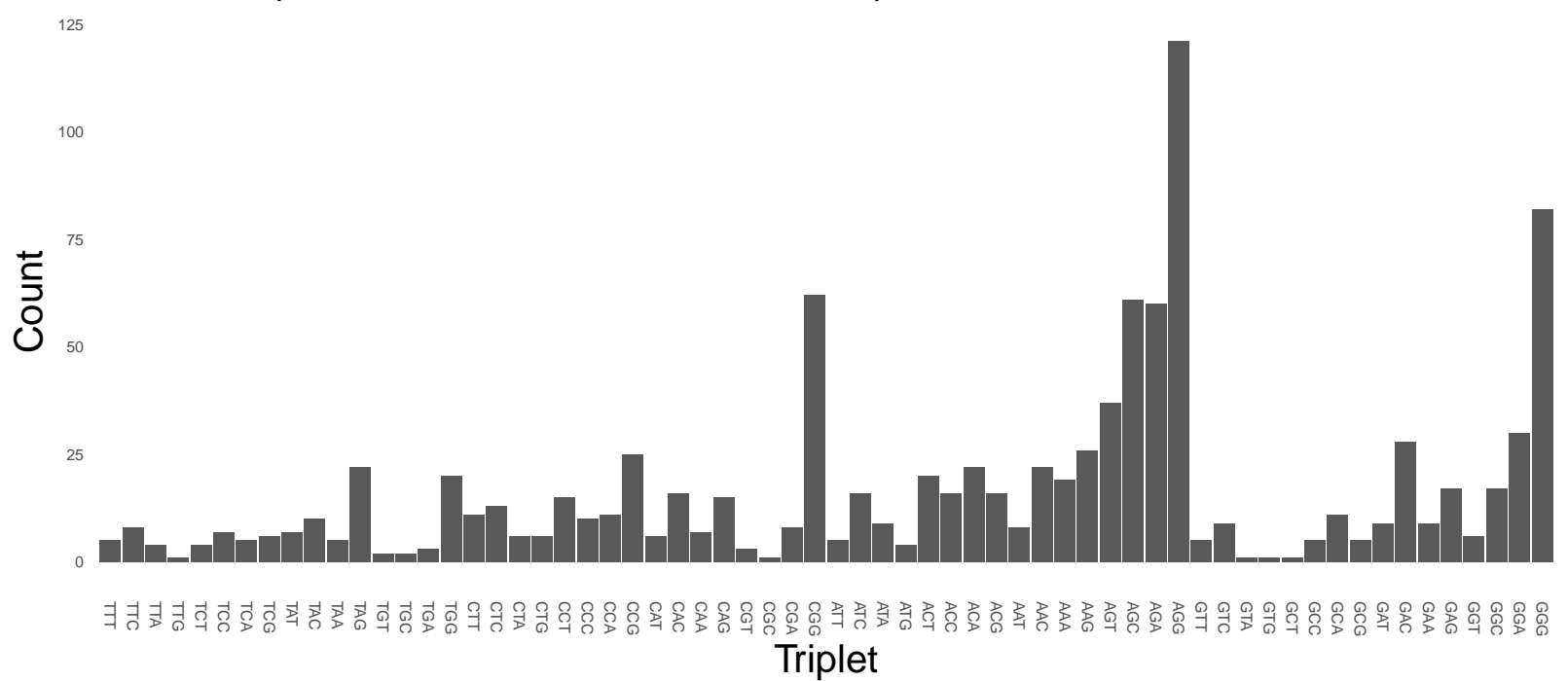
TRBV7–1*ap01_G291C_T296C– Final 3 nucleotides as a triplet



TRBV7–3*ap01_G301A– Final 3 nucleotides as a triplet

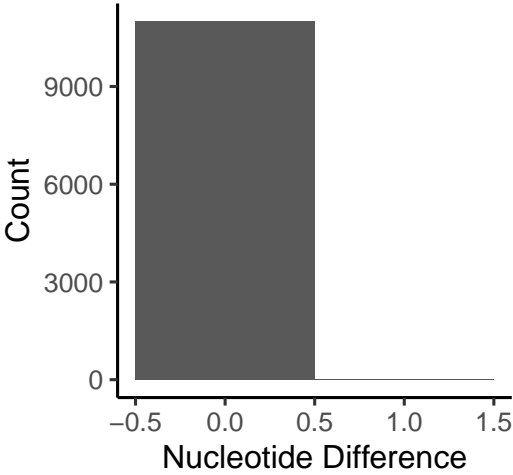


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



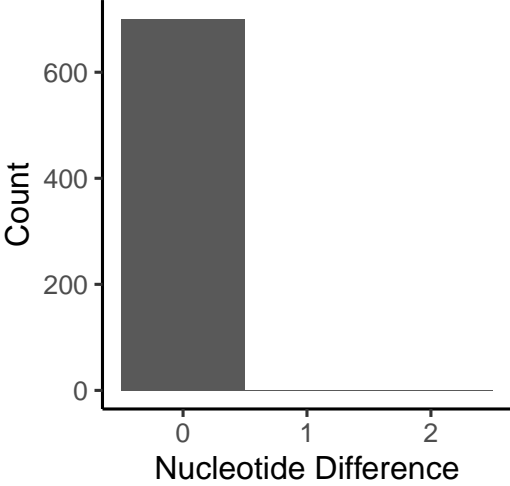
TRBV20-1*ap01

11009 sequences assigned
10997 (99.9%) exact matches, in which:
10993 unique CDR3
12 unique J



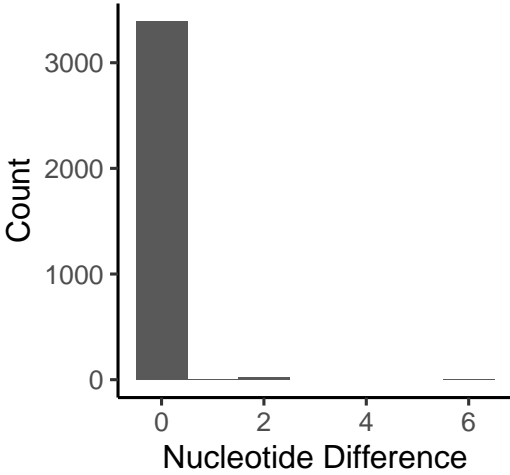
TRBV10-2*ap01

703 sequences assigned
701 (99.7%) exact matches, in which:
700 unique CDR3
12 unique J



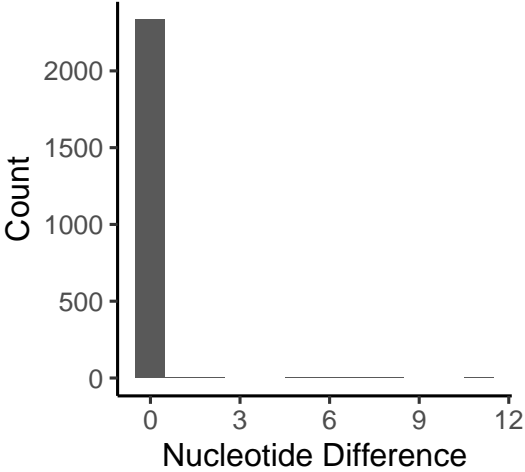
TRBV13*ap01

3422 sequences assigned
3391 (99.1%) exact matches, in which:
3391 unique CDR3
13 unique J



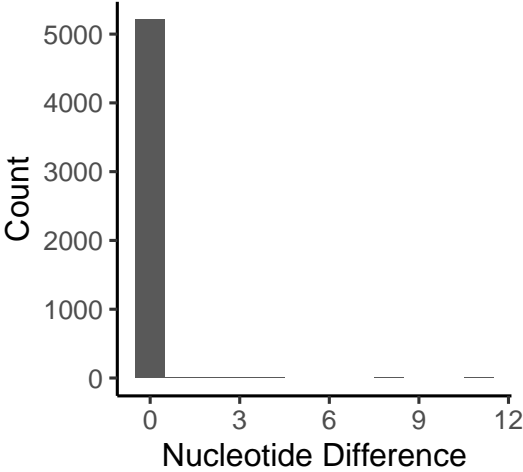
TRBV10-1*ap01

2346 sequences assigned
2333 (99.4%) exact matches, in which:
2331 unique CDR3
12 unique J



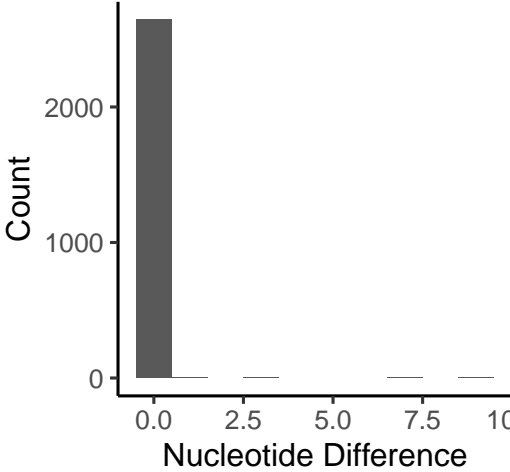
TRBV10-3*ap01

5223 sequences assigned
5209 (99.7%) exact matches, in which:
5209 unique CDR3
13 unique J



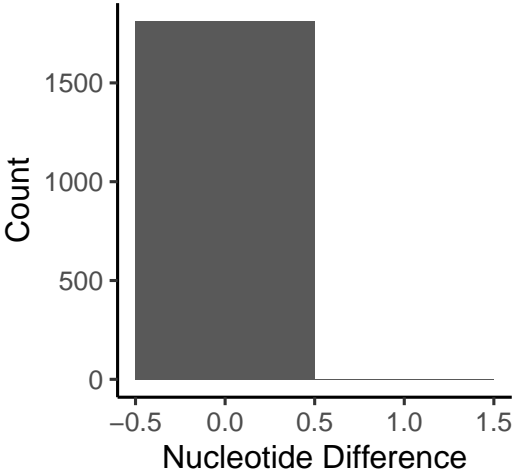
TRBV14*ap01

2653 sequences assigned
2644 (99.7%) exact matches, in which:
2644 unique CDR3
12 unique J



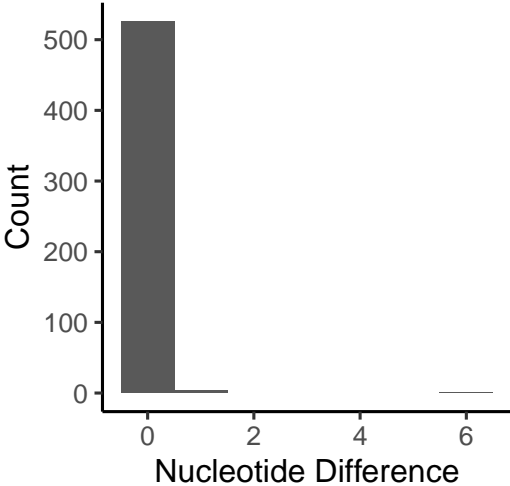
TRBV20-1*ap02

1814 sequences assigned
1813 (99.9%) exact matches, in which:
1812 unique CDR3
12 unique J



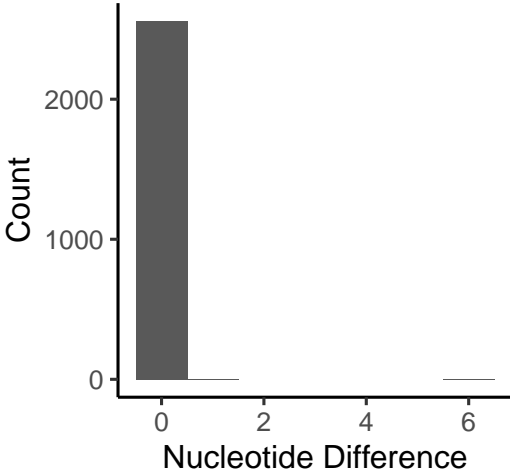
TRBV1*ap01

531 sequences assigned
526 (99.1%) exact matches, in which:
526 unique CDR3
12 unique J



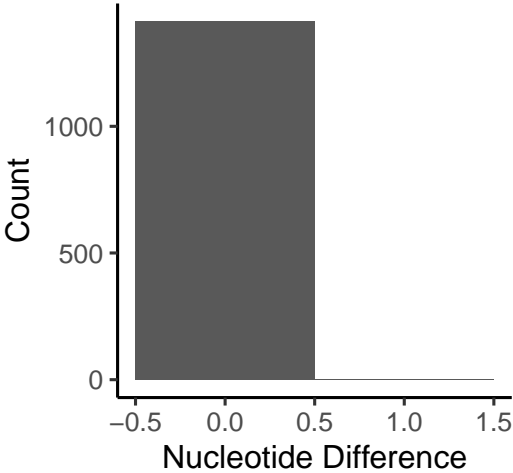
TRBV15*ap02

2562 sequences assigned
2558 (99.8%) exact matches, in which:
2558 unique CDR3
12 unique J



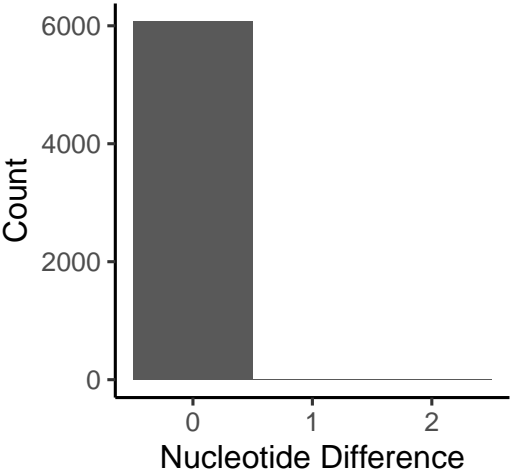
TRBV15*ap02_C296T

1416 sequences assigned
1414 (99.9%) exact matches, in which:
1414 unique CDR3
12 unique J



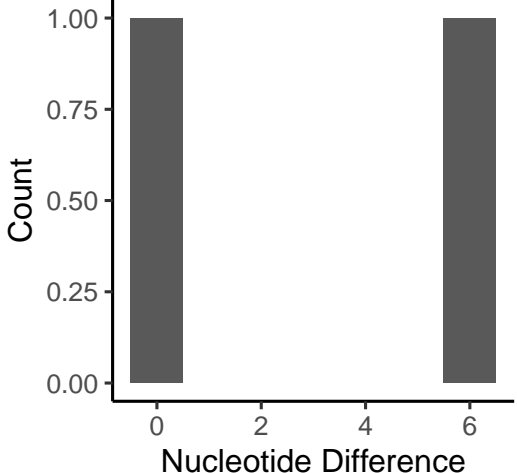
TRBV18*ap01

6078 sequences assigned
6074 (99.9%) exact matches, in which:
6073 unique CDR3
13 unique J



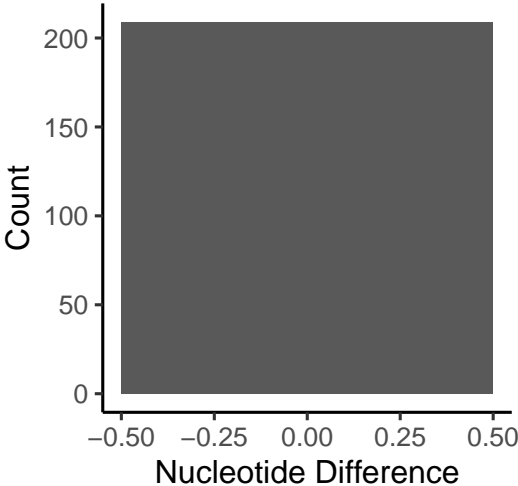
TRBV26*ap01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



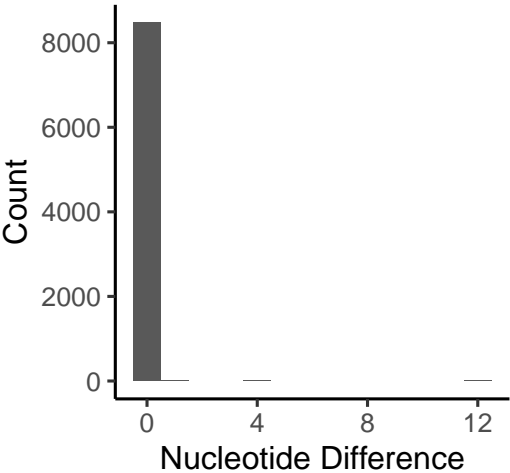
TRBV16*ap01

209 sequences assigned
209 (100%) exact matches, in which:
209 unique CDR3
11 unique J



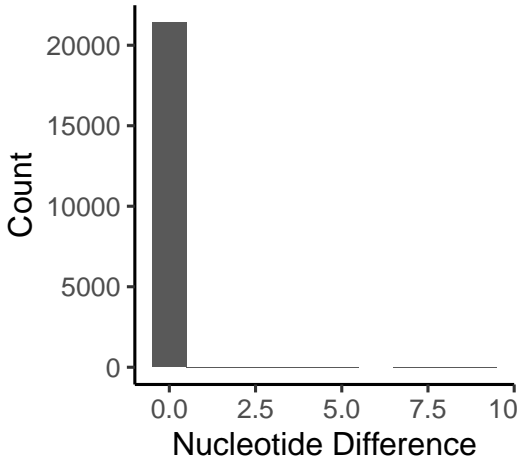
TRBV19*ap01

8496 sequences assigned
8473 (99.7%) exact matches, in which:
8472 unique CDR3
12 unique J



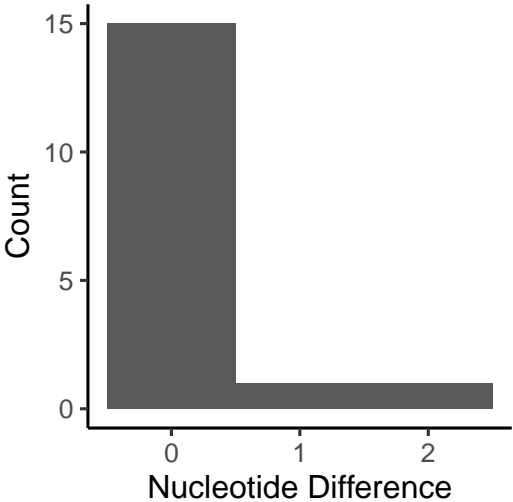
TRBV27*ap01

21459 sequences assigned
21414 (99.8%) exact matches, in which:
21399 unique CDR3
13 unique J



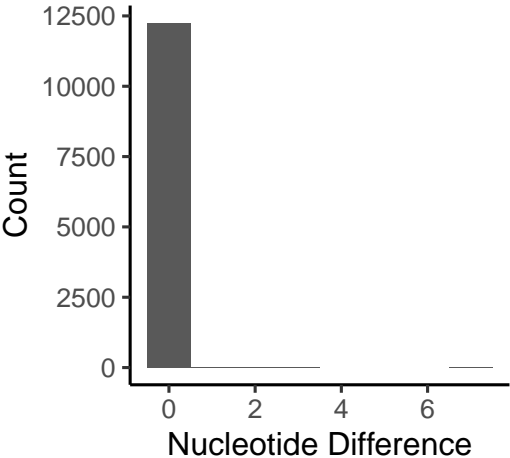
TRBV17*ap01

17 sequences assigned
15 (88.2%) exact matches, in which:
15 unique CDR3
8 unique J



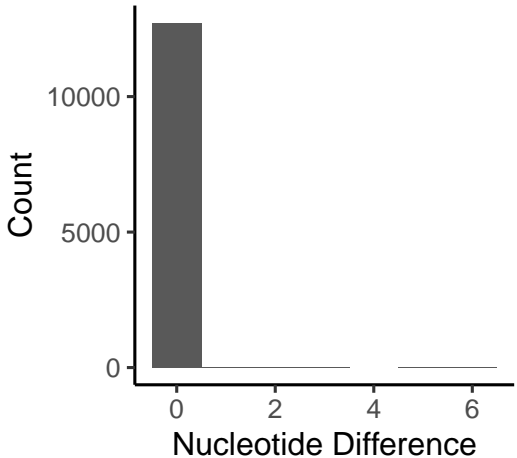
TRBV2*ap01

12287 sequences assigned
12256 (99.7%) exact matches, in which:
12249 unique CDR3
12 unique J



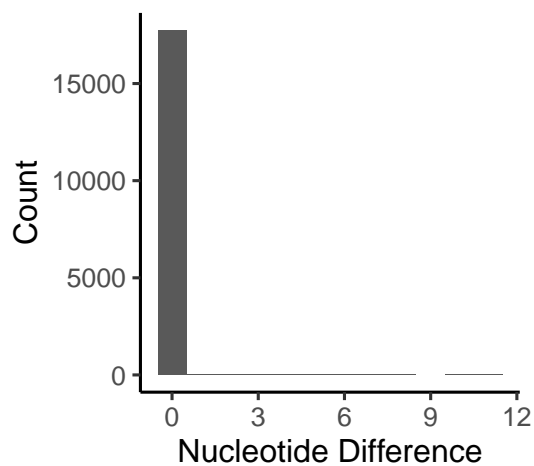
TRBV28*ap01

12748 sequences assigned
12723 (99.8%) exact matches, in which:
12721 unique CDR3
12 unique J



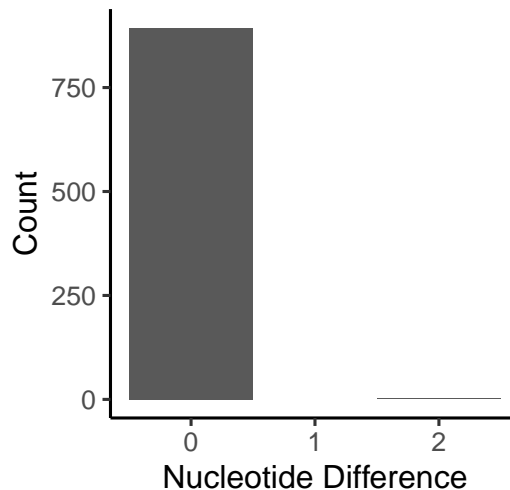
TRBV30*ap01

17822 sequences assigned
17749 (99.6%) exact matches, in which:
17729 unique CDR3
13 unique J



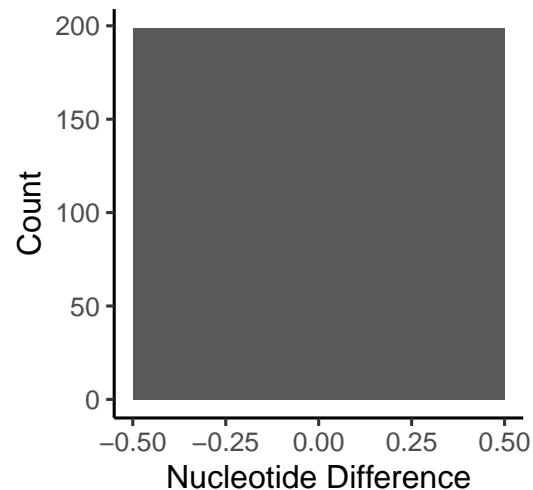
TRBV11-1*ap01

896 sequences assigned
894 (99.8%) exact matches, in which:
894 unique CDR3
12 unique J



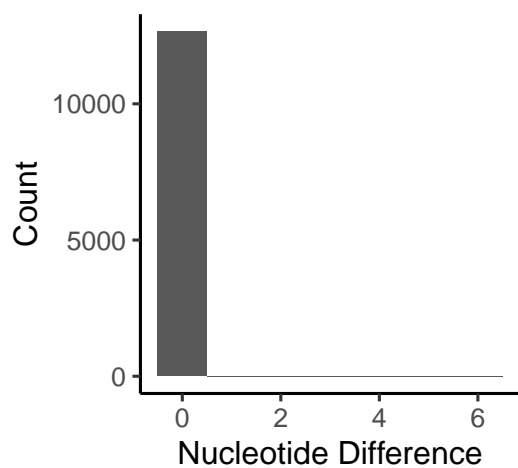
TRBV12-1*ap01

199 sequences assigned
199 (100%) exact matches, in which:
199 unique CDR3
12 unique J



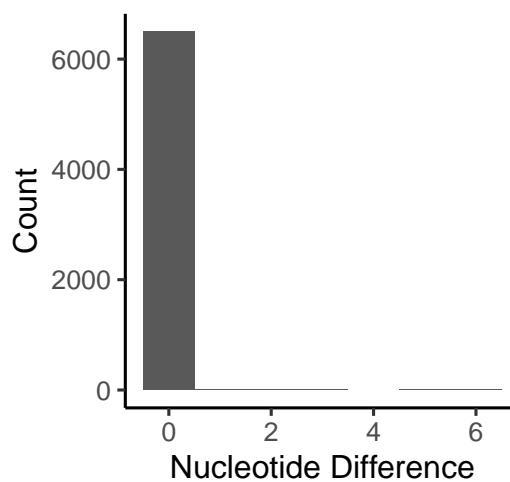
TRBV9*ap01

12680 sequences assigned
12656 (99.8%) exact matches, in which:
12646 unique CDR3
13 unique J



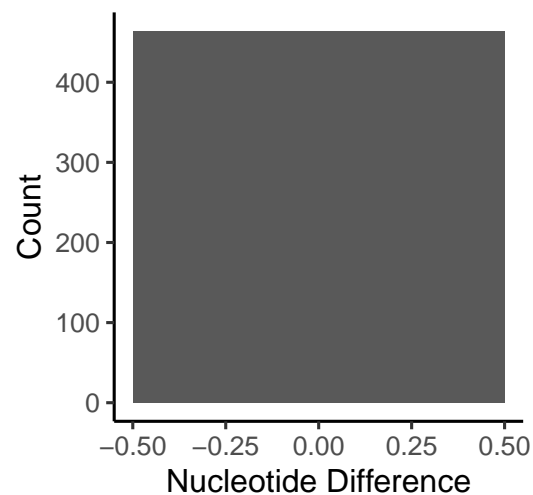
TRBV11-2*ap01

6506 sequences assigned
6496 (99.8%) exact matches, in which:
6495 unique CDR3
12 unique J



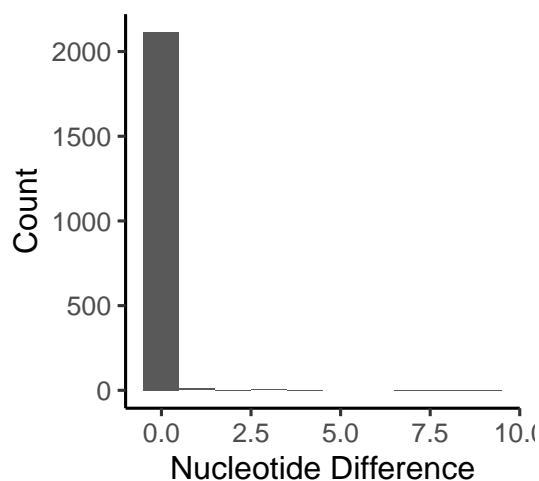
TRBV12-2*ap01

464 sequences assigned
464 (100%) exact matches, in which:
463 unique CDR3
12 unique J



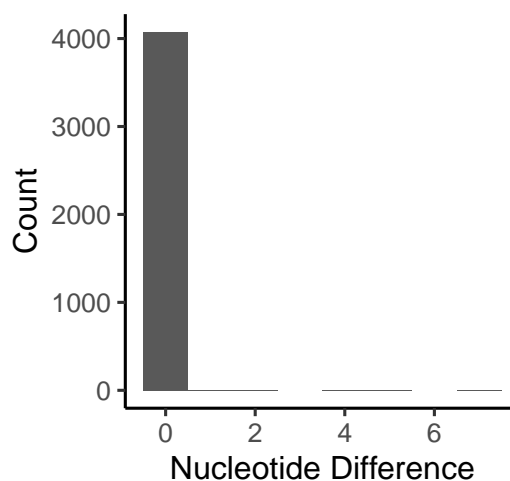
TRBV21-1*ap01

2137 sequences assigned
2115 (99%) exact matches, in which:
2115 unique CDR3
12 unique J



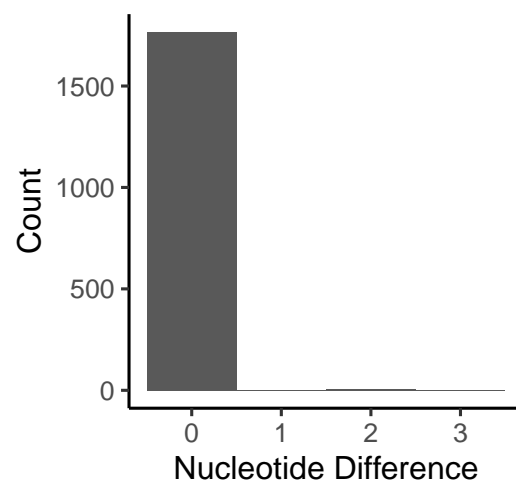
TRBV11-3*ap01

4089 sequences assigned
4074 (99.6%) exact matches, in which:
4072 unique CDR3
12 unique J



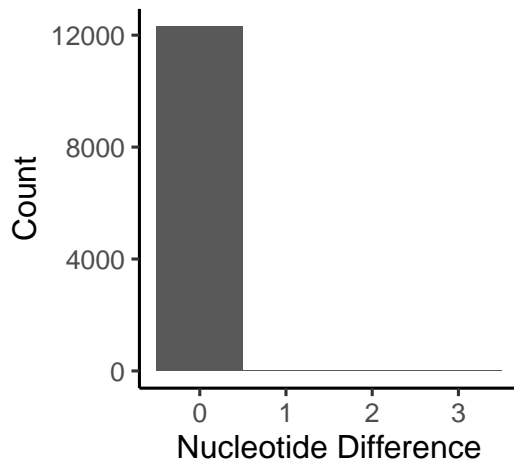
TRBV12-5*ap01

1776 sequences assigned
1766 (99.4%) exact matches, in which:
1765 unique CDR3
12 unique J



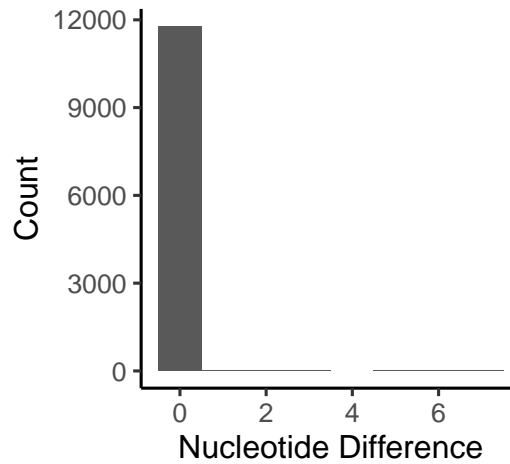
TRBV12-34*ap01

12346 sequences assigned
12322 (99.8%) exact matches, in which:
12321 unique CDR3
12 unique J



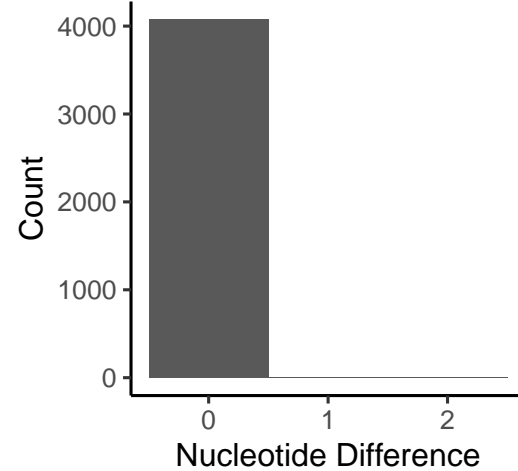
TRBV24-1*ap01

11828 sequences assigned
11784 (99.6%) exact matches, in which:
11776 unique CDR3
13 unique J



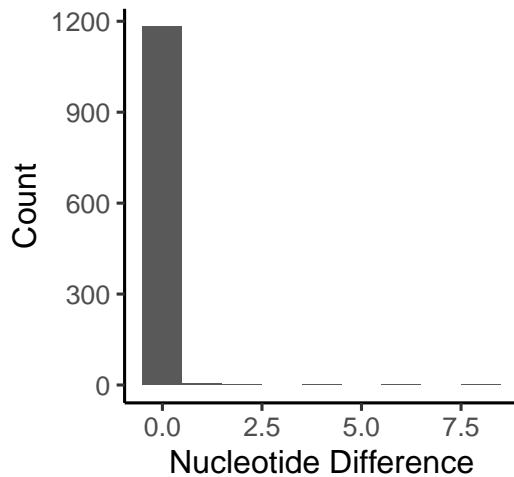
TRBV4-3*ap01

4085 sequences assigned
4076 (99.8%) exact matches, in which:
4076 unique CDR3
12 unique J



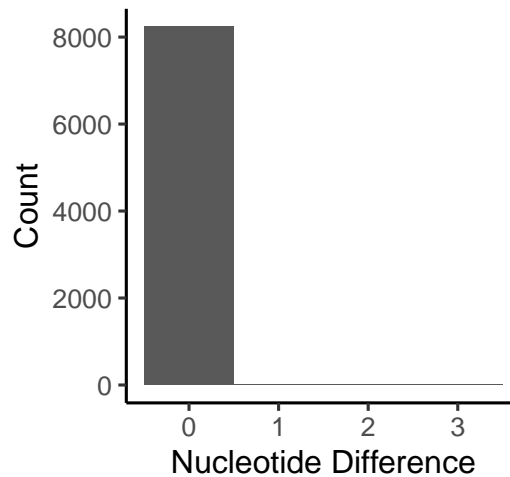
TRBV23-1*ap01

1190 sequences assigned
1182 (99.3%) exact matches, in which:
1182 unique CDR3
12 unique J



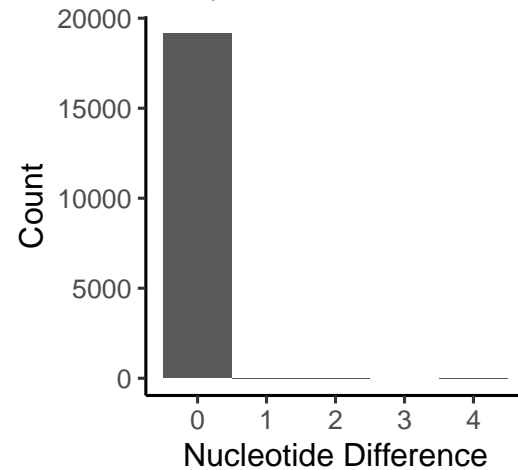
TRBV4-1*ap01

8249 sequences assigned
8238 (99.9%) exact matches, in which:
8238 unique CDR3
12 unique J



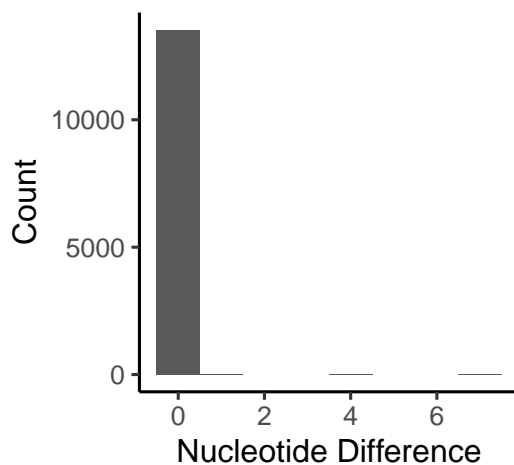
TRBV5-1*ap01

19181 sequences assigned
19152 (99.8%) exact matches, in which:
19139 unique CDR3
13 unique J



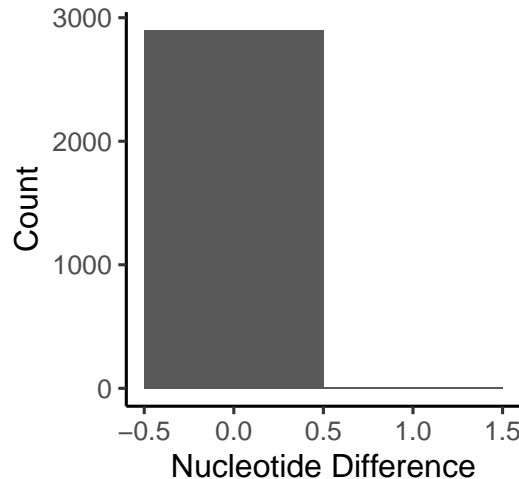
TRBV3-12*ap01

13570 sequences assigned
13532 (99.7%) exact matches, in which:
13526 unique CDR3
13 unique J



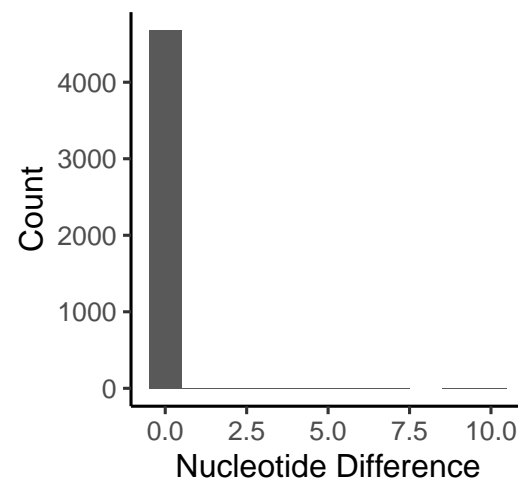
TRBV4-2*ap01

2913 sequences assigned
2900 (99.6%) exact matches, in which:
2900 unique CDR3
12 unique J



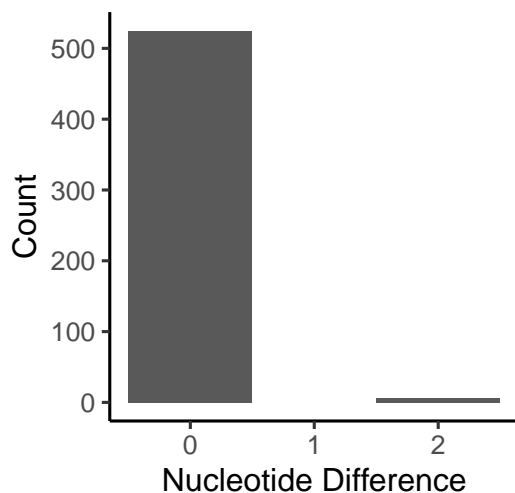
TRBV25-1*ap01

4702 sequences assigned
4682 (99.6%) exact matches, in which:
4681 unique CDR3
13 unique J



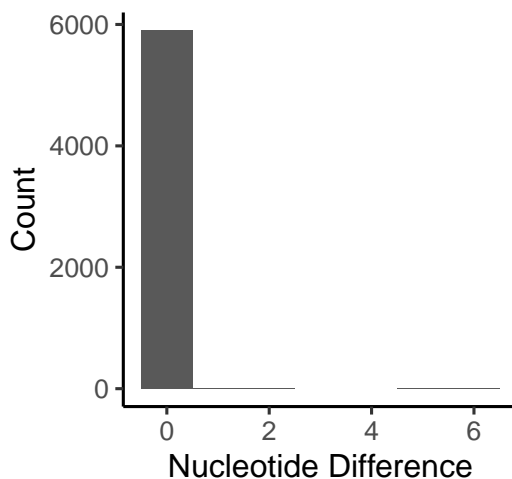
TRBV5-3*ap01

531 sequences assigned
525 (98.9%) exact matches, in which:
525 unique CDR3
12 unique J



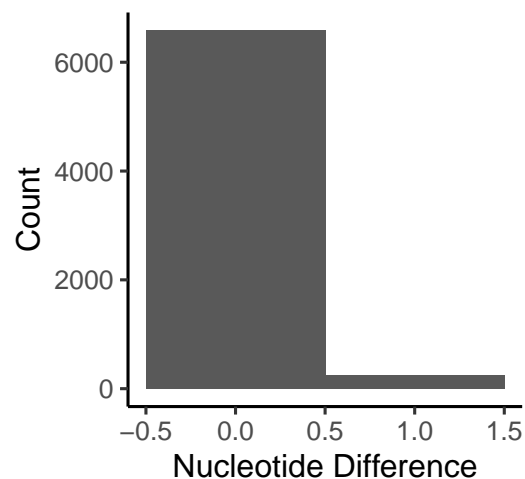
TRBV5-6*ap01

5910 sequences assigned
5902 (99.9%) exact matches, in which:
5895 unique CDR3
12 unique J



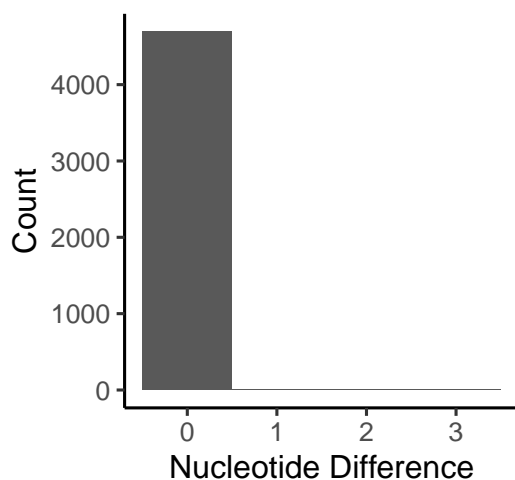
TRBV6-1*ap01

6832 sequences assigned
6585 (96.4%) exact matches, in which:
6581 unique CDR3
12 unique J



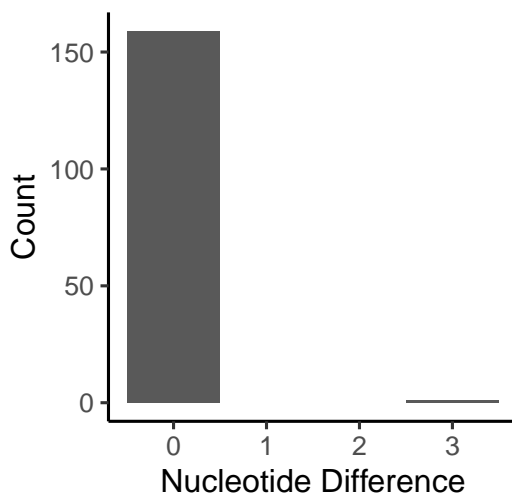
TRBV5-4*ap01

4703 sequences assigned
4693 (99.8%) exact matches, in which:
4691 unique CDR3
12 unique J



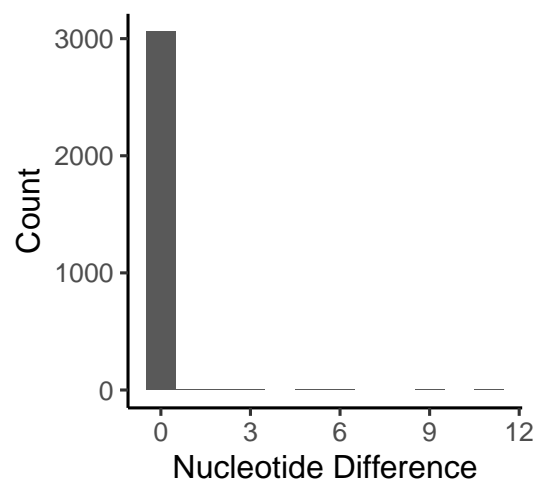
TRBV5-7*ap01

160 sequences assigned
159 (99.4%) exact matches, in which:
159 unique CDR3
12 unique J



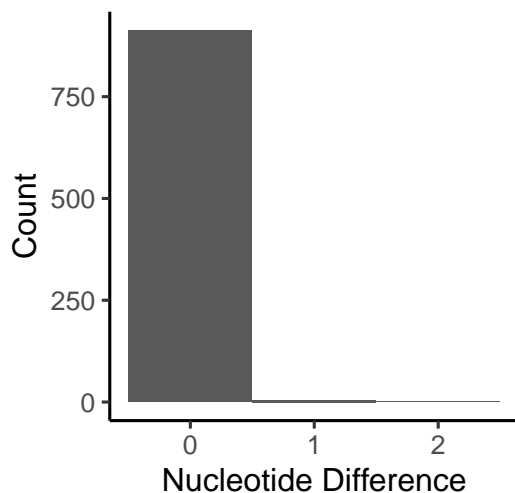
TRBV6-4*ap01

3073 sequences assigned
3059 (99.5%) exact matches, in which:
3057 unique CDR3
12 unique J



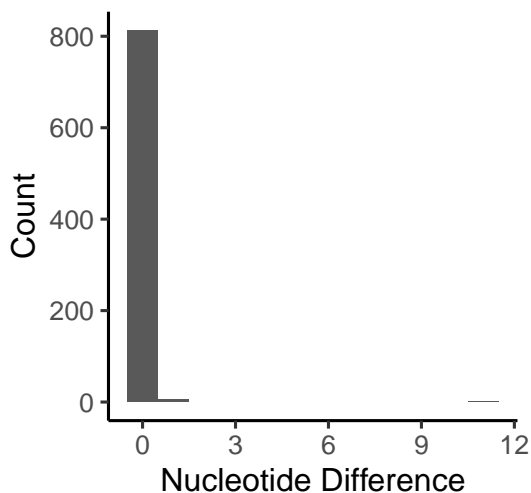
TRBV5-5*ap01

920 sequences assigned
913 (99.2%) exact matches, in which:
911 unique CDR3
13 unique J



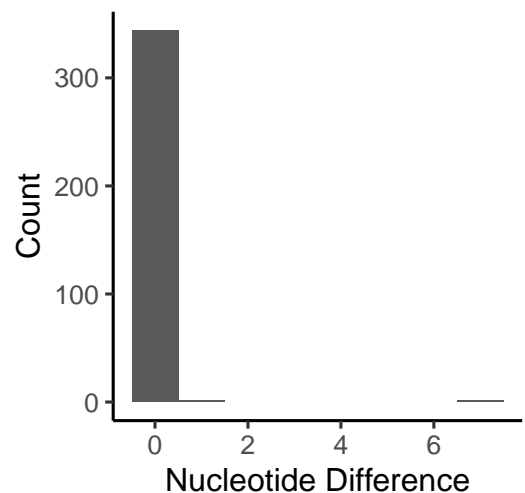
TRBV5-8*ap01

820 sequences assigned
813 (99.1%) exact matches, in which:
813 unique CDR3
12 unique J



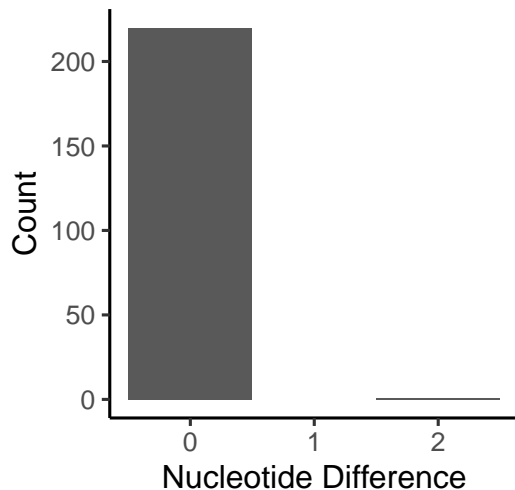
TRBV6-7*ap01

346 sequences assigned
344 (99.4%) exact matches, in which:
344 unique CDR3
12 unique J



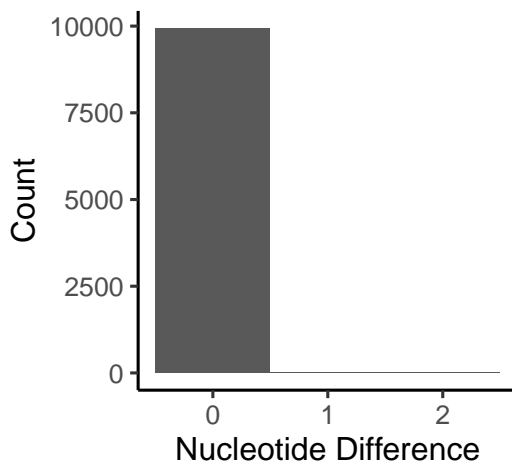
TRBV6-8*ap01

221 sequences assigned
220 (99.5%) exact matches, in which:
220 unique CDR3
12 unique J



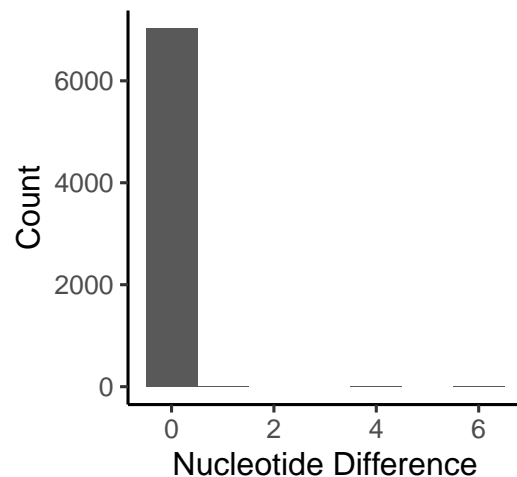
TRBV6-56*ap01

9952 sequences assigned
9941 (99.9%) exact matches, in which:
9939 unique CDR3
13 unique J



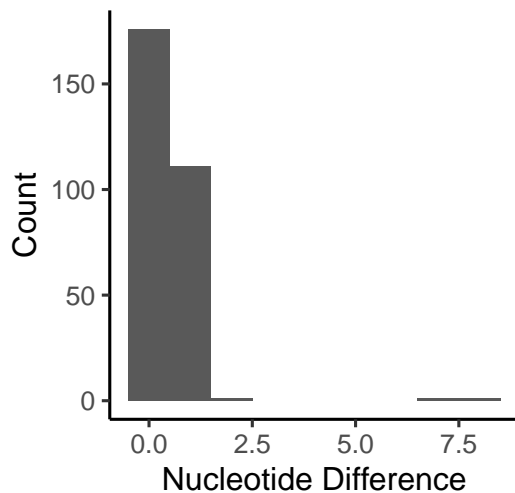
TRBV7-2*ap01

7038 sequences assigned
7028 (99.9%) exact matches, in which:
7026 unique CDR3
12 unique J



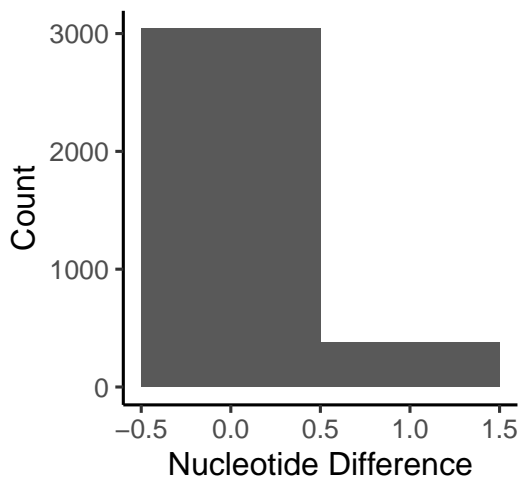
TRBV6-9*ap01

290 sequences assigned
176 (60.7%) exact matches, in which:
176 unique CDR3
12 unique J



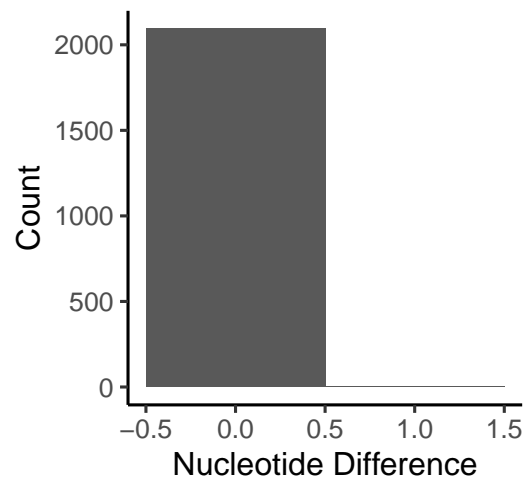
TRBV6-56*ap02

3419 sequences assigned
3041 (88.9%) exact matches, in which:
3040 unique CDR3
13 unique J



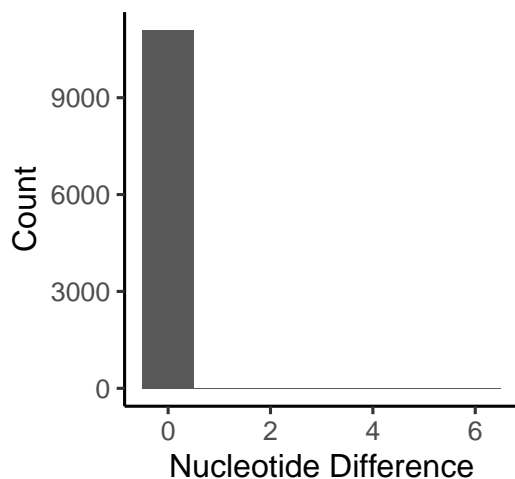
TRBV7-3*ap01

2099 sequences assigned
2094 (99.8%) exact matches, in which:
2094 unique CDR3
12 unique J



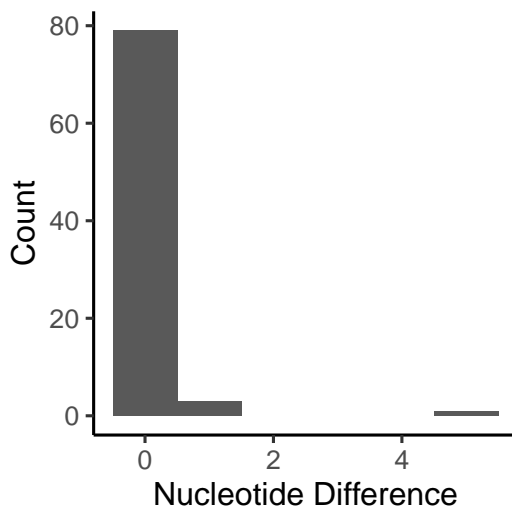
TRBV6-23*ap01

11123 sequences assigned
11095 (99.7%) exact matches, in which:
11092 unique CDR3
12 unique J



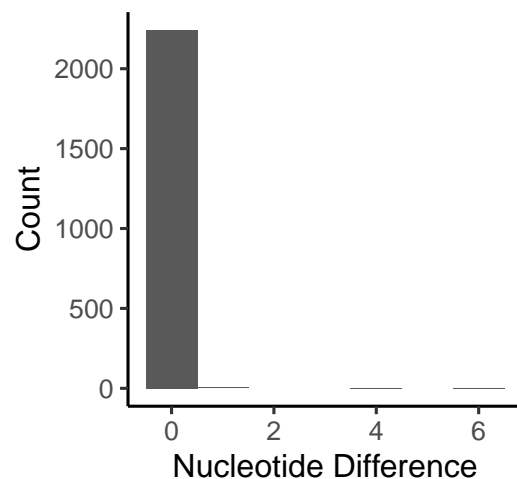
TRBV7-1*ap01_G291C_T

83 sequences assigned
79 (95.2%) exact matches, in which:
79 unique CDR3
12 unique J



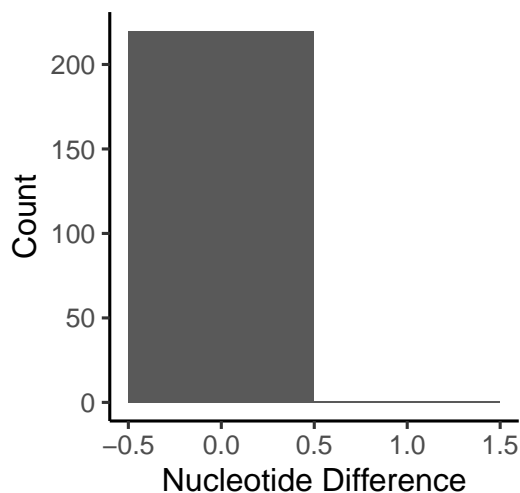
TRBV7-3*ap01_G301A

2250 sequences assigned
2242 (99.6%) exact matches, in which:
2241 unique CDR3
12 unique J



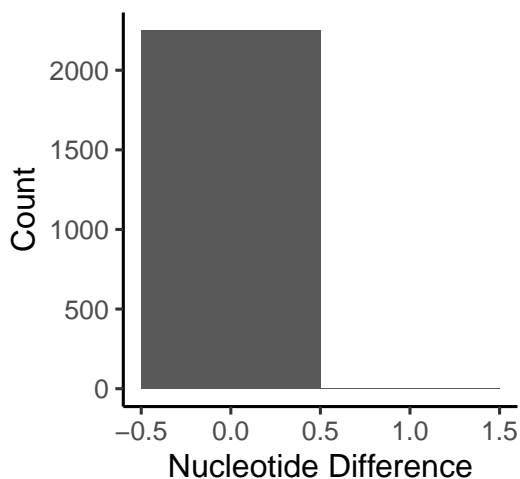
TRBV7-4*ap01

221 sequences assigned
220 (99.5%) exact matches, in which:
220 unique CDR3
12 unique J



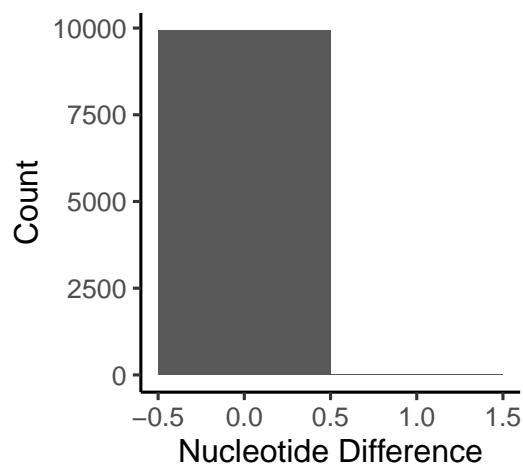
TRBV7-8*ap01

2252 sequences assigned
2250 (99.9%) exact matches, in which:
2250 unique CDR3
12 unique J



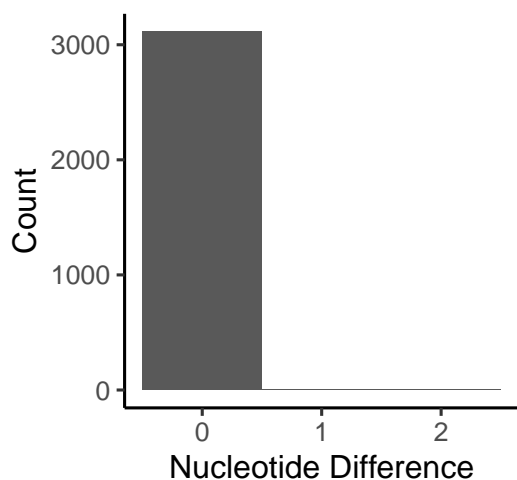
TRBV29-1*ap01

9962 sequences assigned
9940 (99.8%) exact matches, in which:
9914 unique CDR3
13 unique J



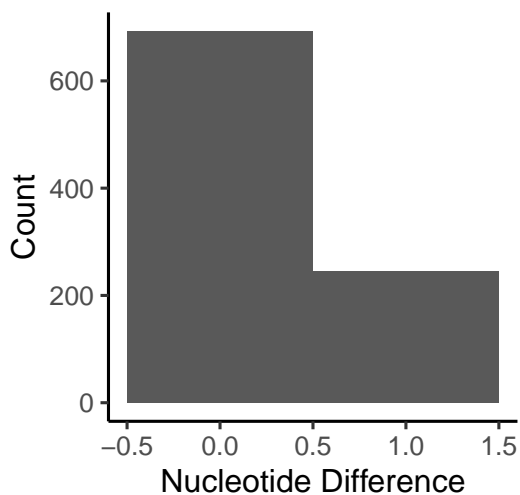
TRBV7-6*ap01

3116 sequences assigned
3113 (99.9%) exact matches, in which:
3113 unique CDR3
12 unique J



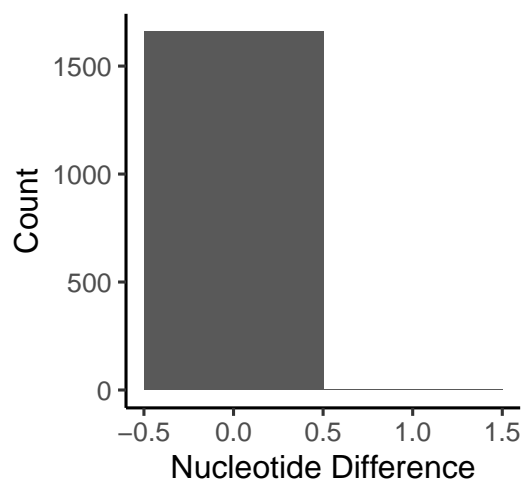
TRBV7-8*ap03

938 sequences assigned
693 (73.9%) exact matches, in which:
693 unique CDR3
12 unique J



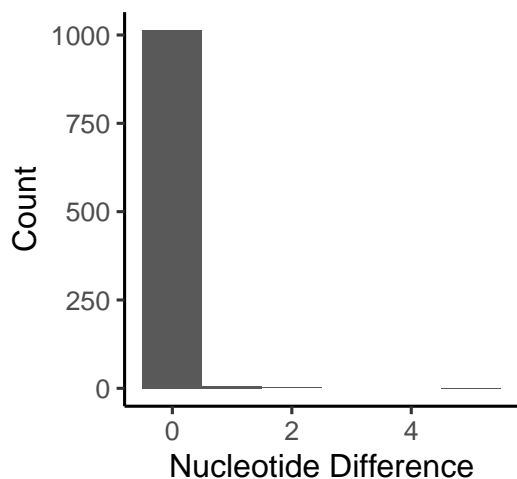
TRBV29-1*ap02

1660 sequences assigned
1659 (99.9%) exact matches, in which:
1657 unique CDR3
12 unique J



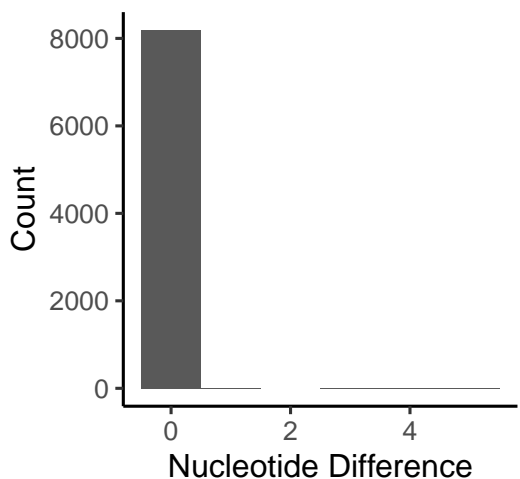
TRBV7-7*ap01_C315T

1024 sequences assigned
1014 (99%) exact matches, in which:
1014 unique CDR3
12 unique J

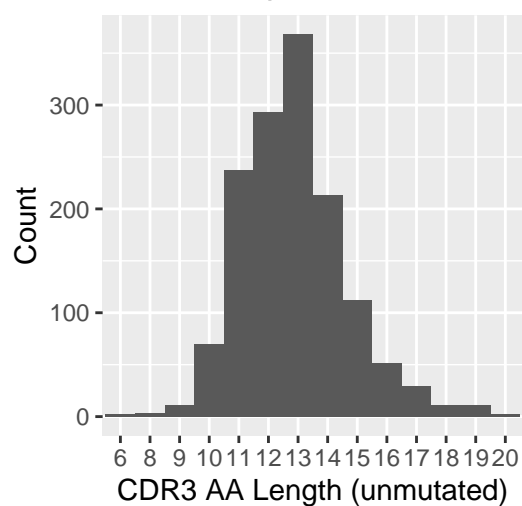


TRBV7-9*ap01

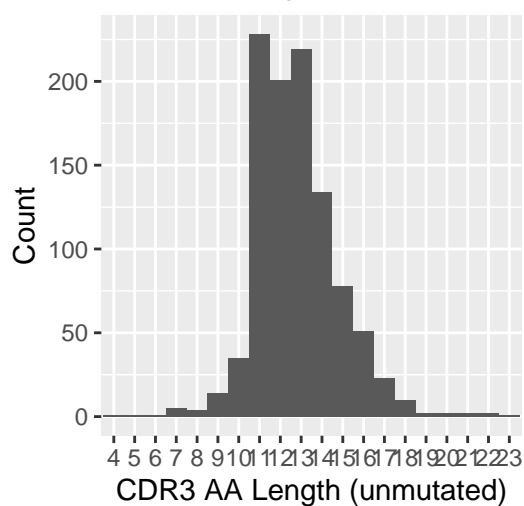
8200 sequences assigned
8191 (99.9%) exact matches, in which:
8190 unique CDR3
12 unique J



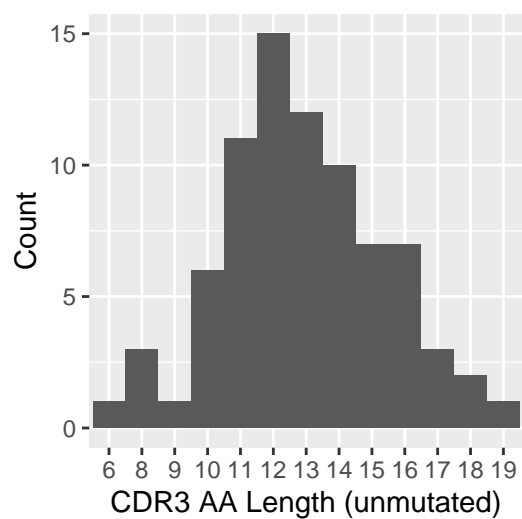
TRBV15*ap02_C296T



TRBV7-7*ap01_C315T



TRBV7-1*ap01_G291C_T296C



TRBV7-3*ap01_G301A

