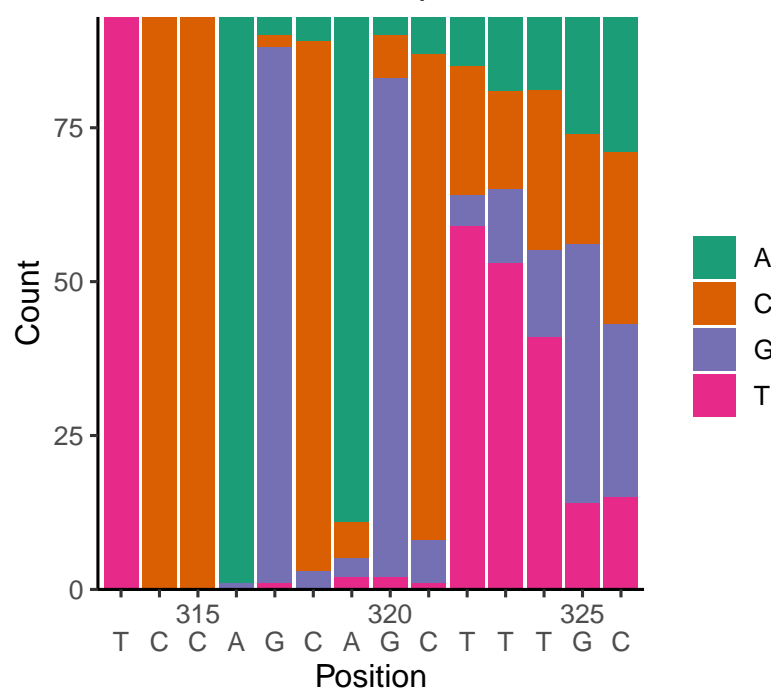
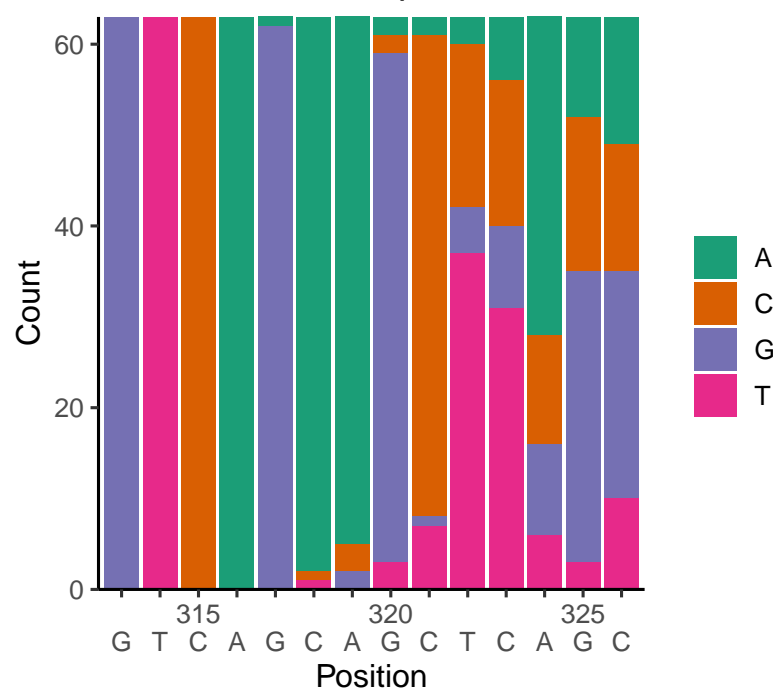


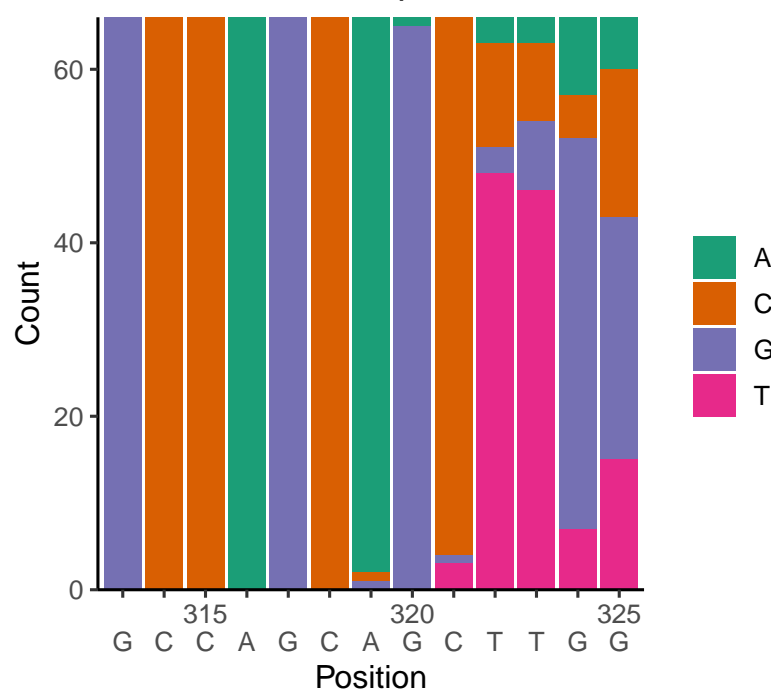
Gene TRBV12-1*ap01_G313T



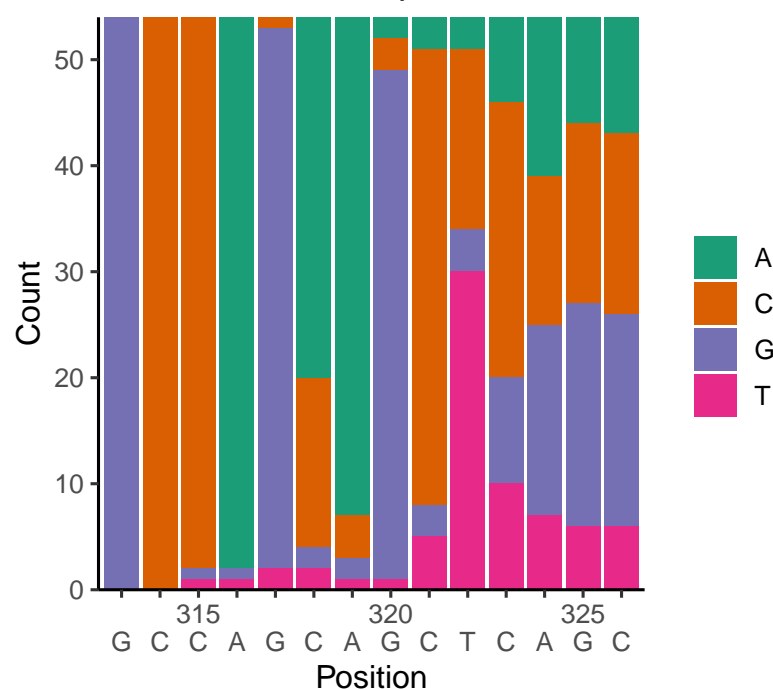
Gene TRBV7-1*ap01_T296C_C314T



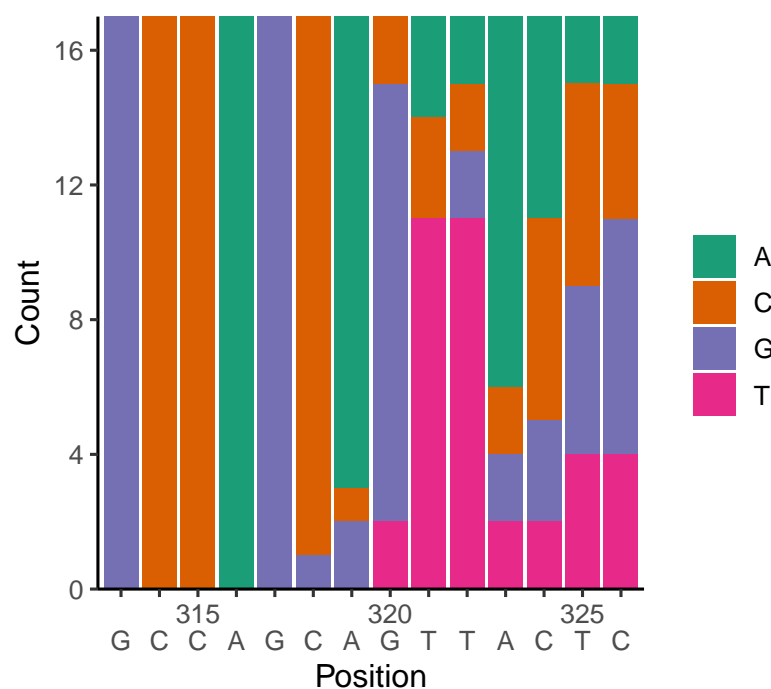
Gene TRBV5-7*ap01_G290A



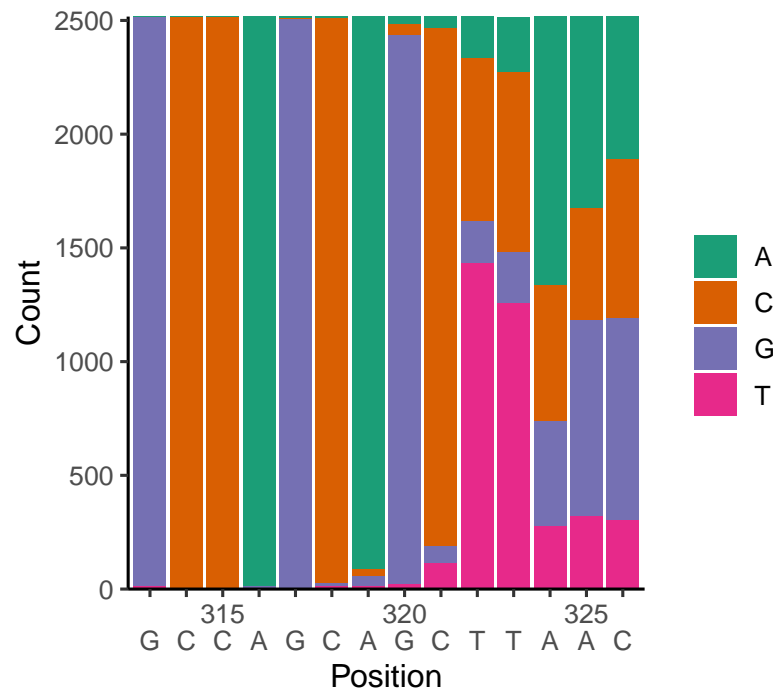
Gene TRBV7-1*ap01_T296C



Gene TRBV6-8*ap01_A293G



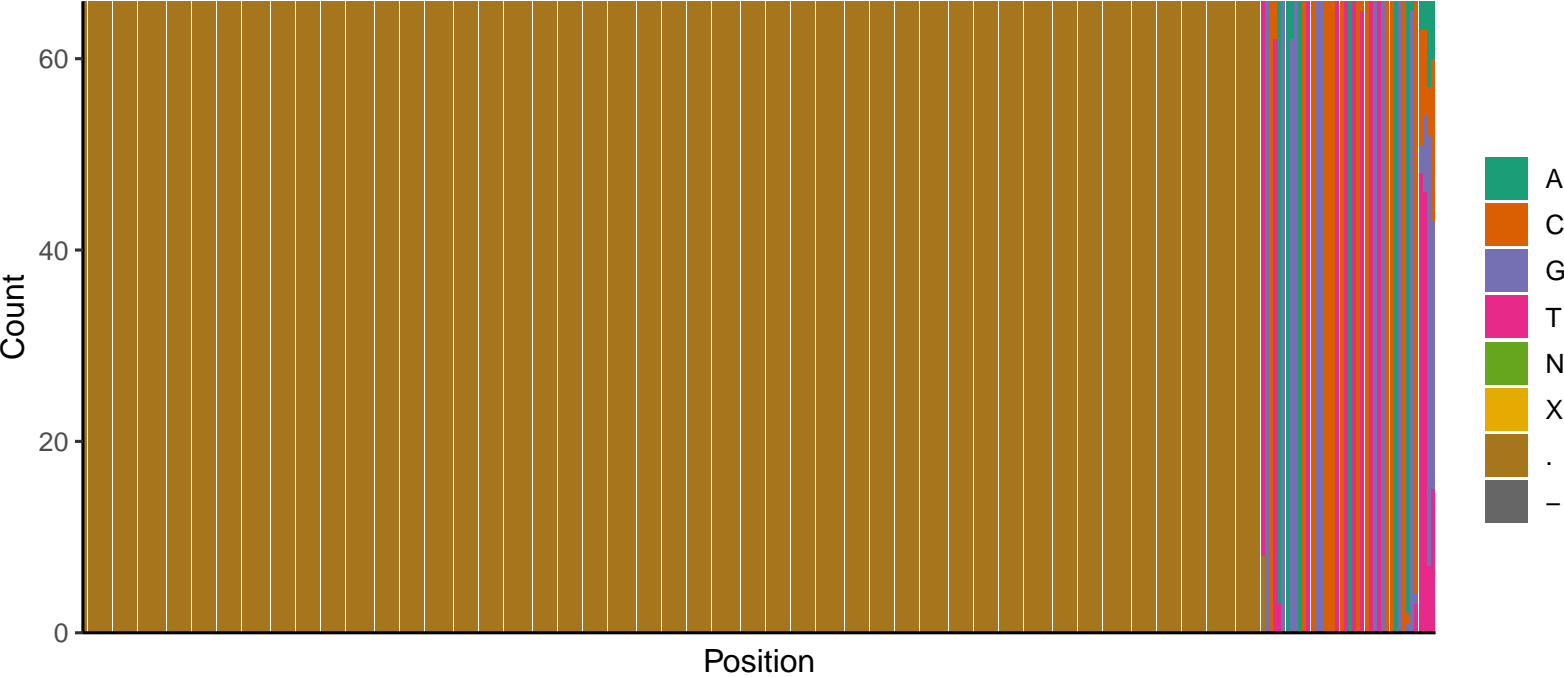
Gene TRBV7-3*ap01_G301A



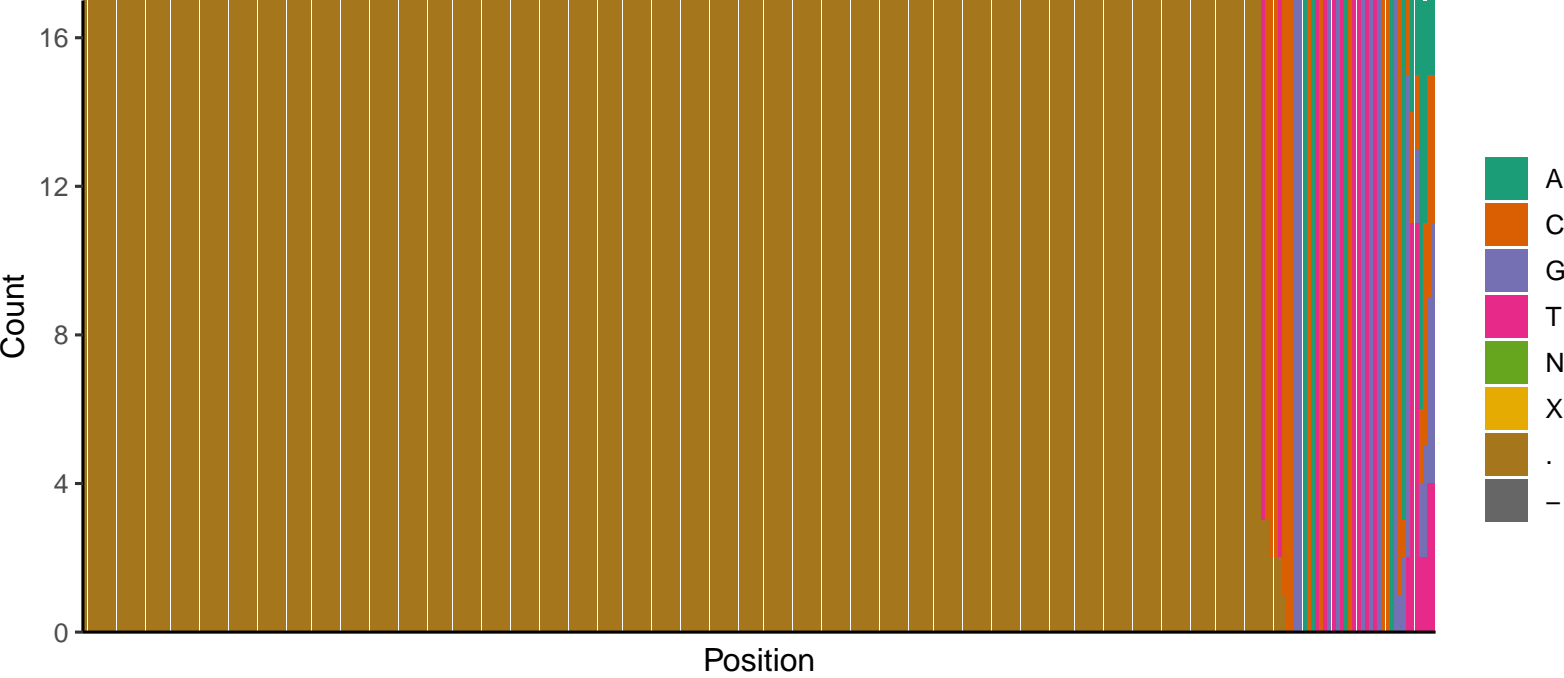
Gene TRBV12-1*ap01_G313T



Gene TRBV5-7*ap01_G290A



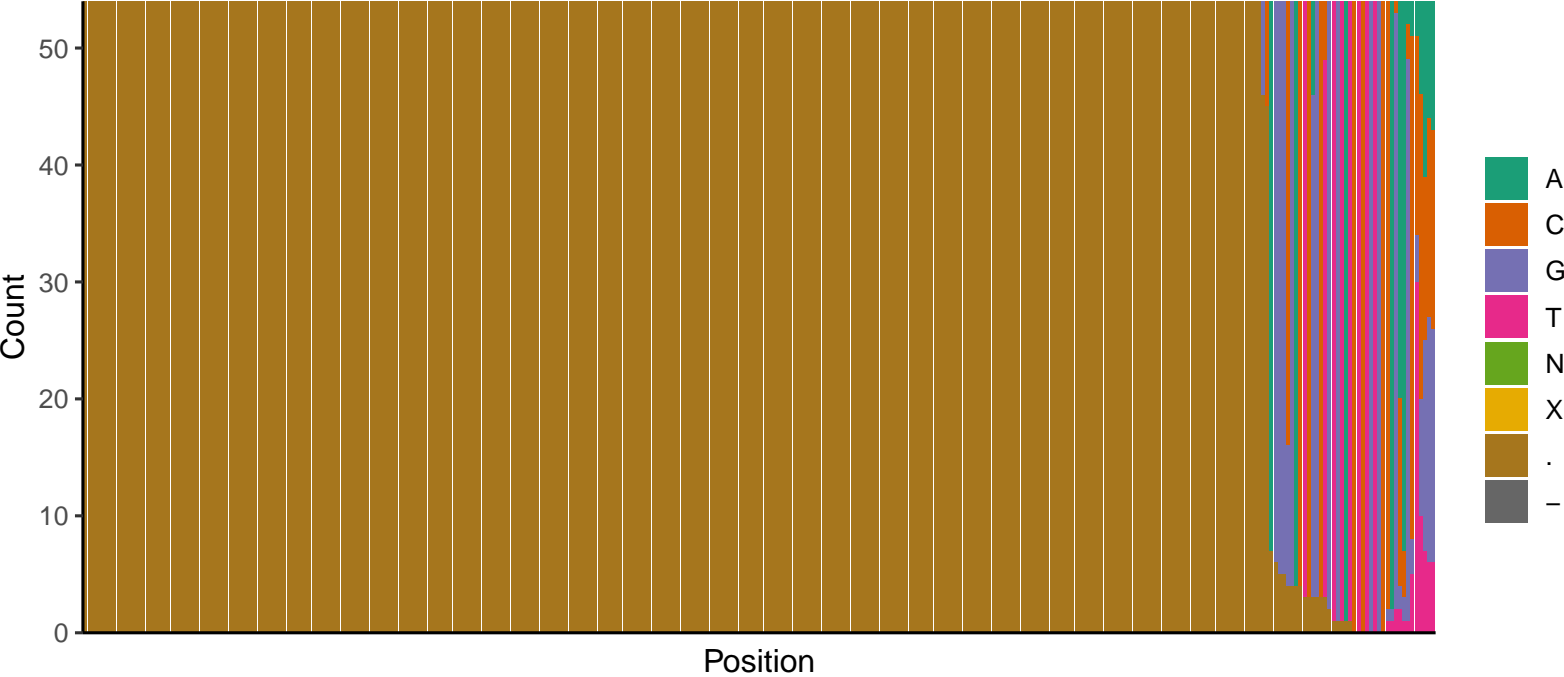
Gene TRBV6-8*ap01_A293G



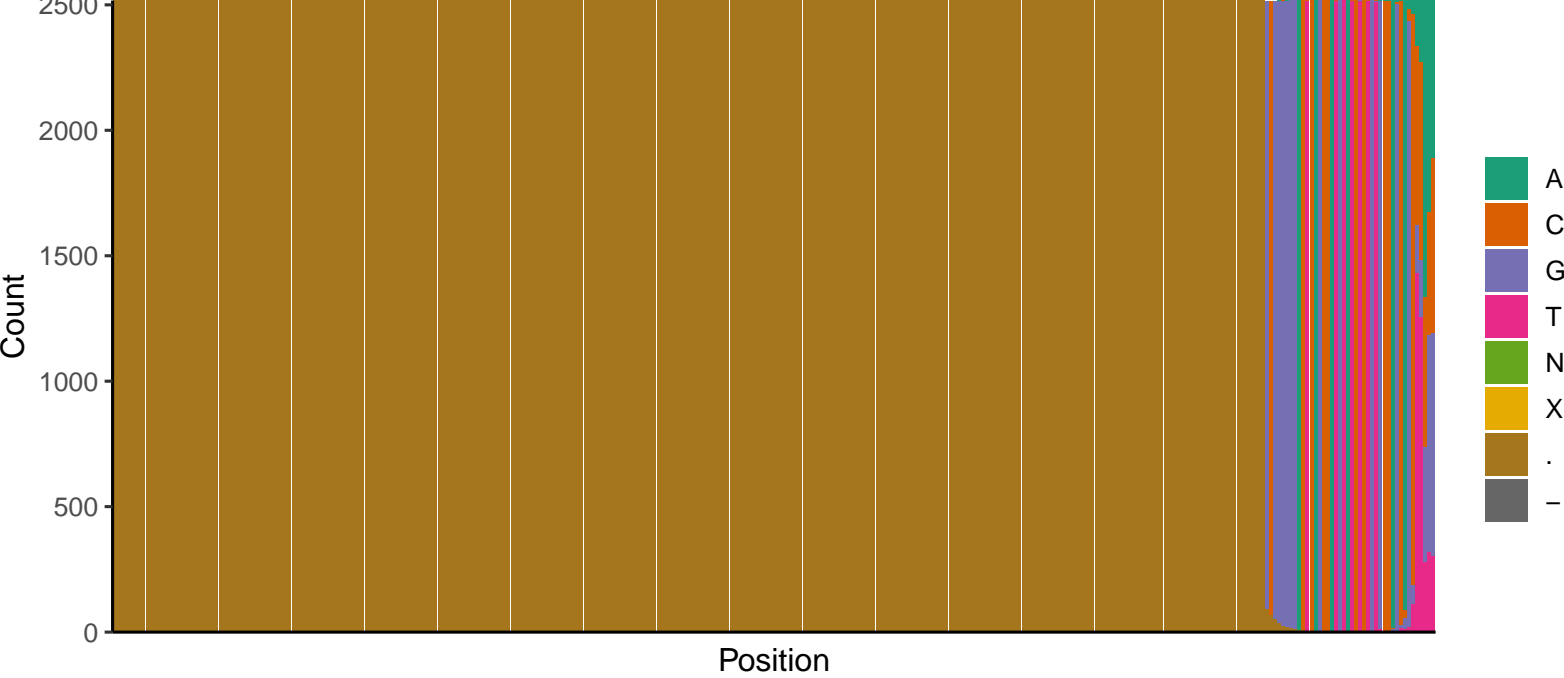
Gene TRBV7-1*ap01_T296C_C314T



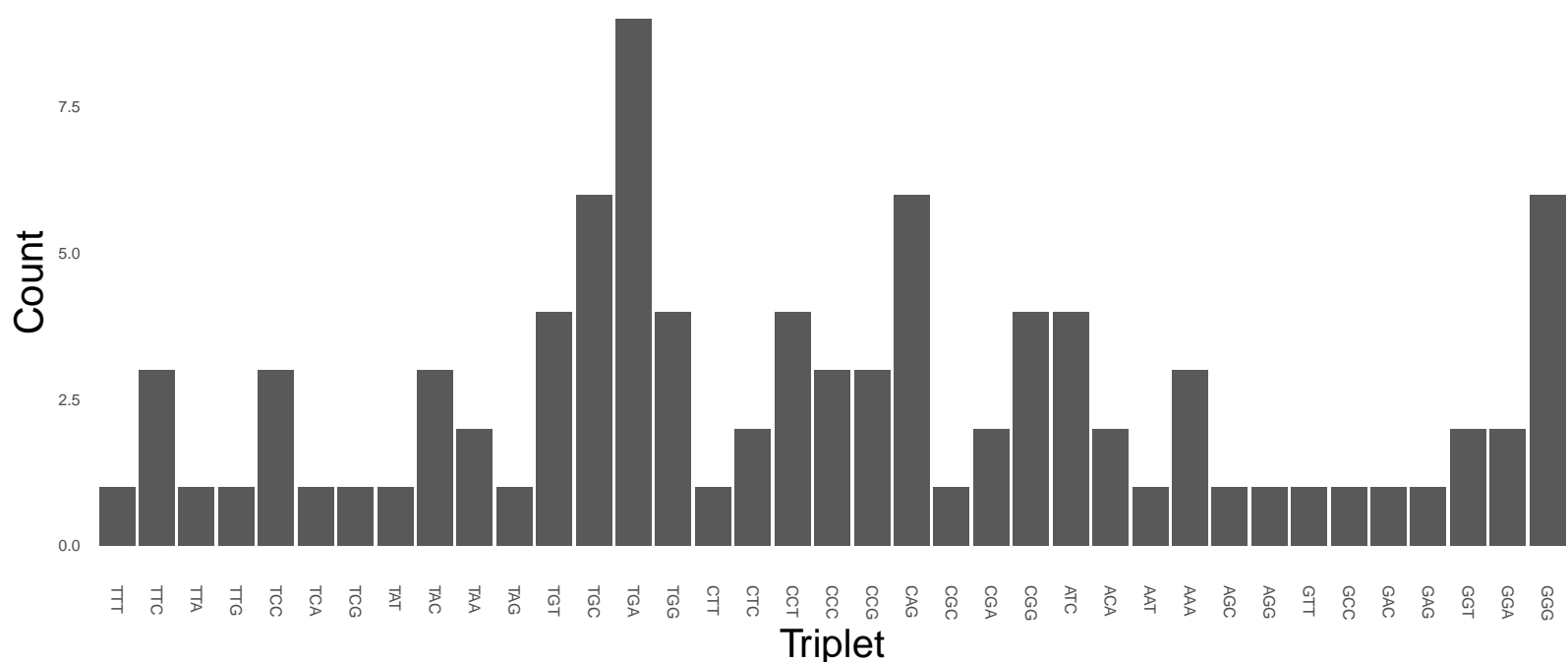
Gene TRBV7-1*ap01_T296C



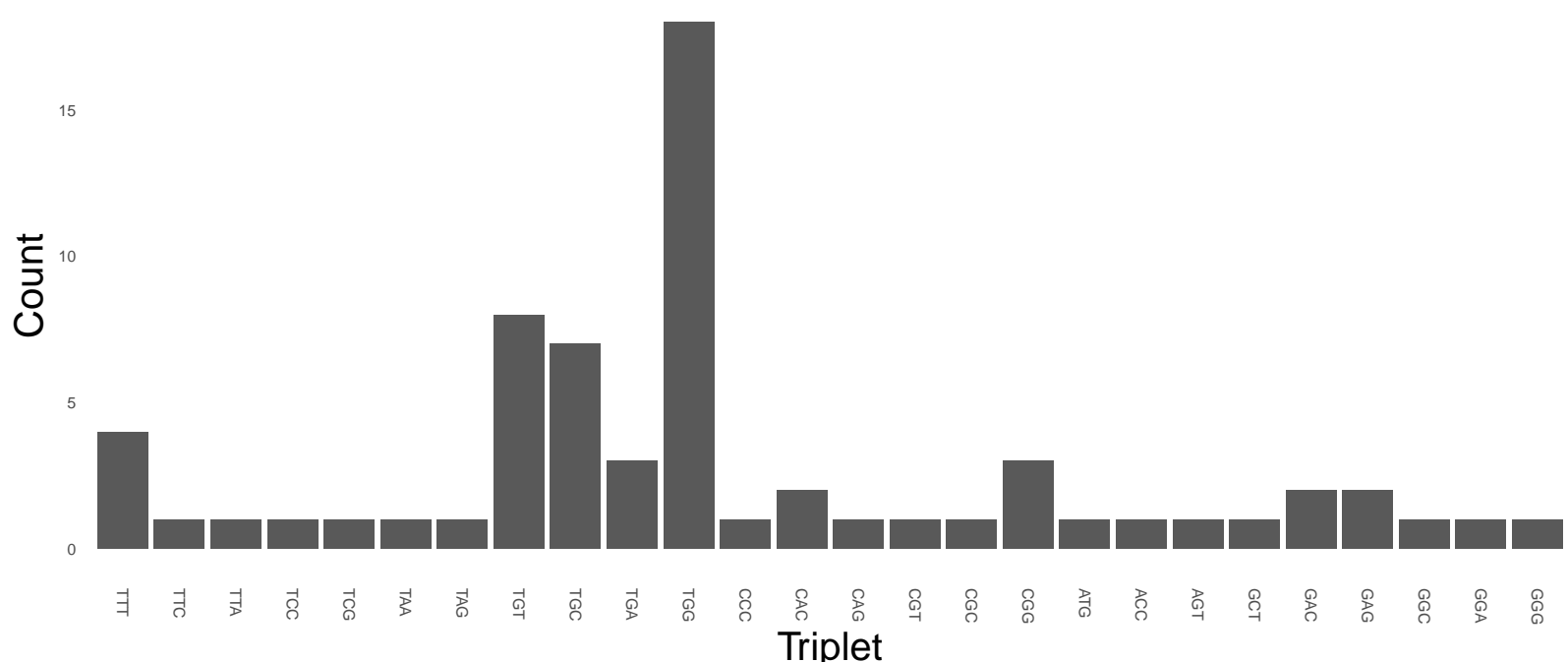
Gene TRBV7-3*ap01_G301A



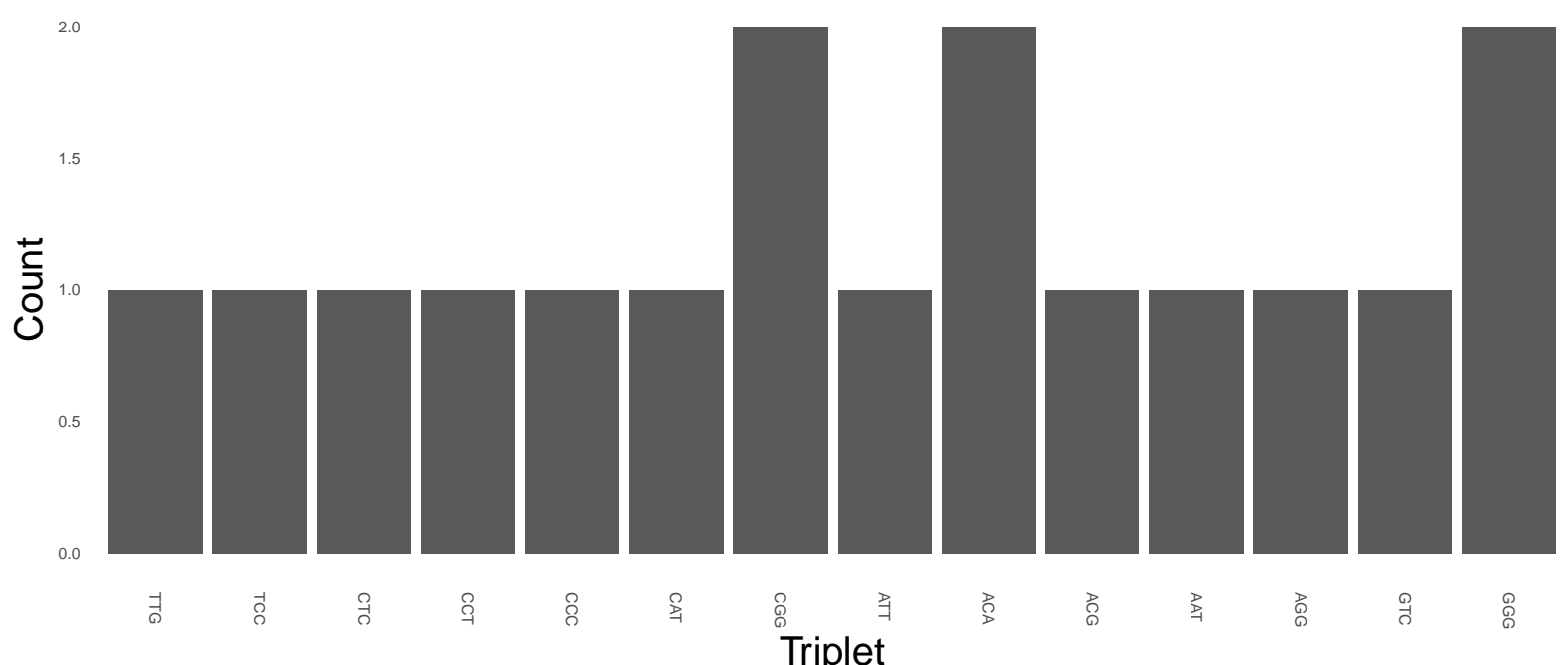
TRBV12-1*ap01_G313T- Final 3 nucleotides as a triplet



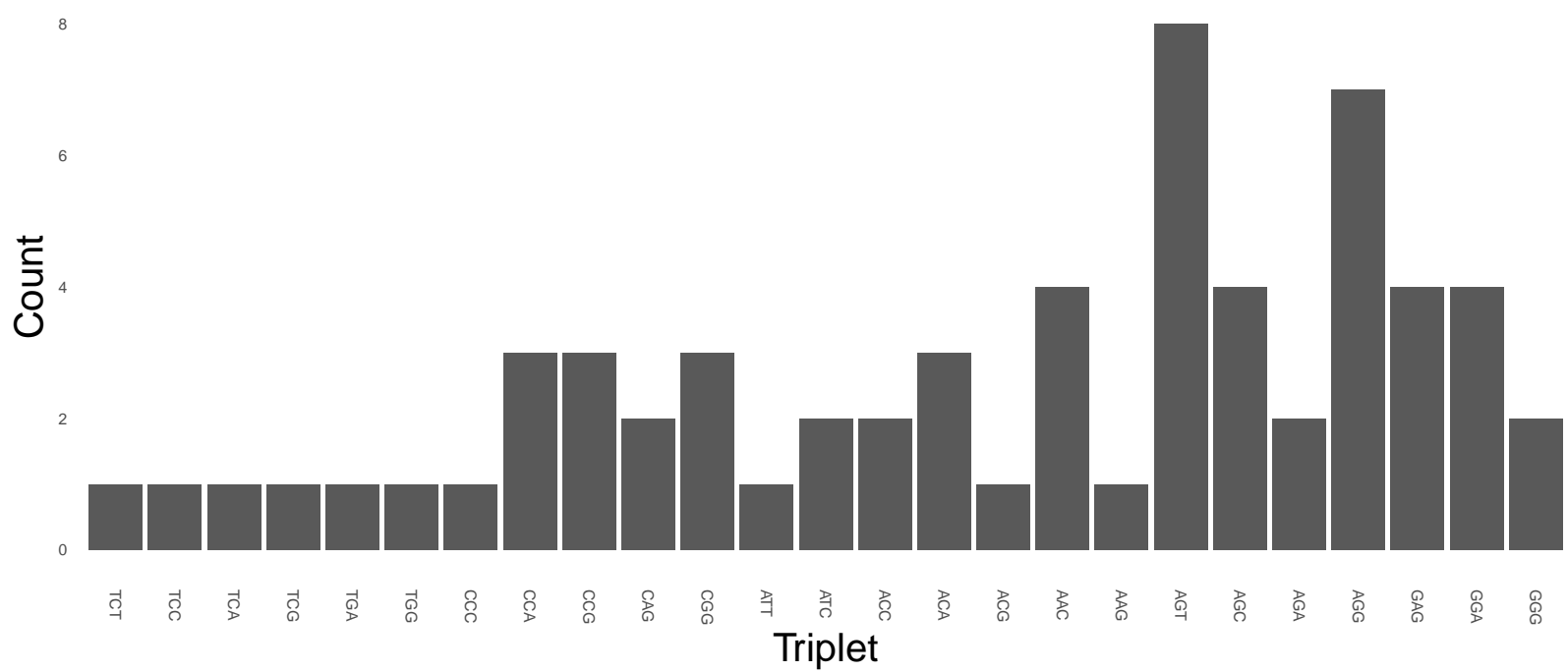
TRBV5-7*ap01_G290A- Final 3 nucleotides as a triplet



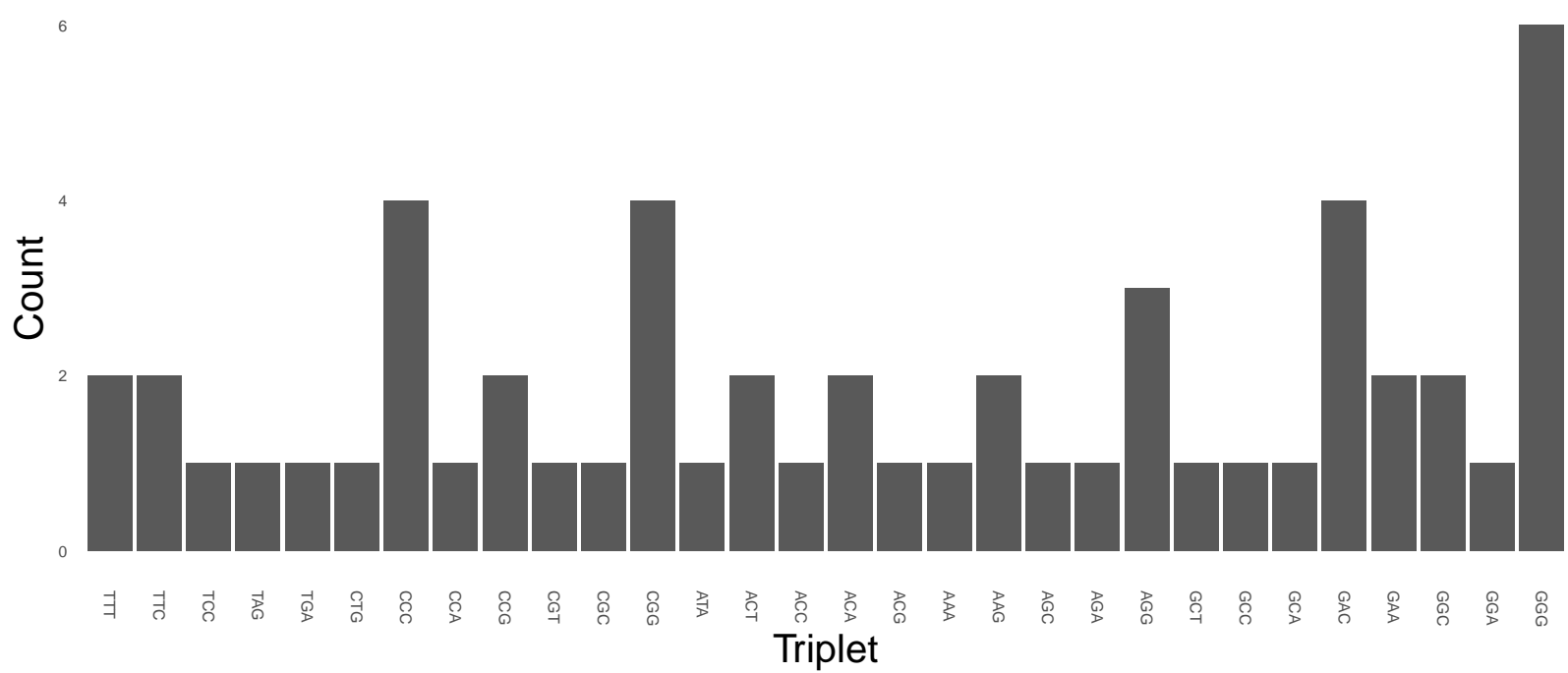
TRBV6-8*ap01_A293G- Final 3 nucleotides as a triplet



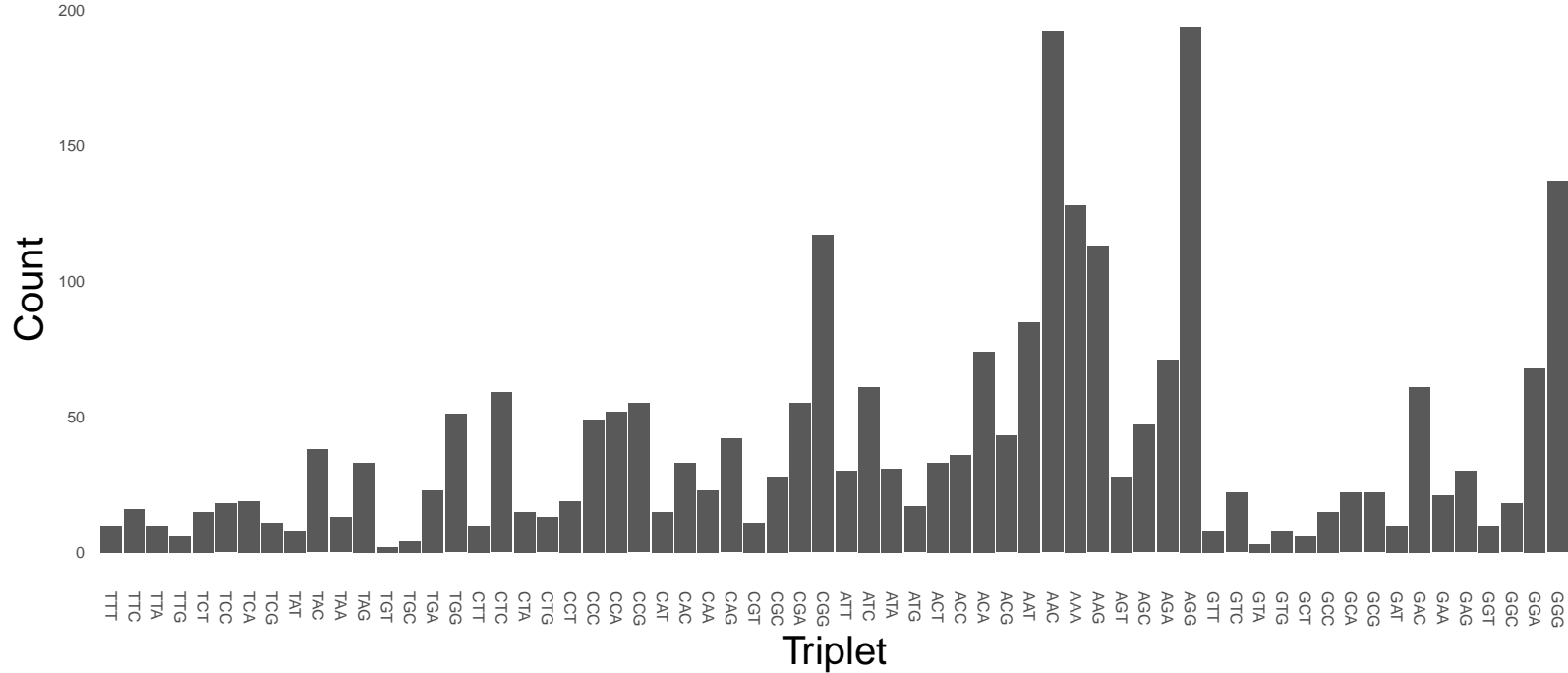
TRBV7-1*ap01_T296C_C314T- Final 3 nucleotides as a triplet



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

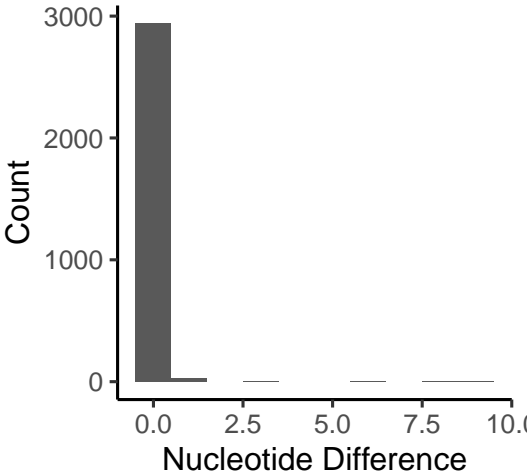


TRBV7-3*ap01_G301A- Final 3 nucleotides as a triplet



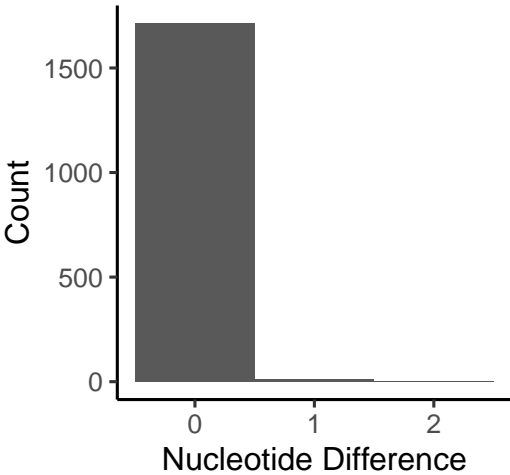
TRBV10-1*ap01

2972 sequences assigned
2940 (98.9%) exact matches, in which:
2875 unique CDR3
13 unique J



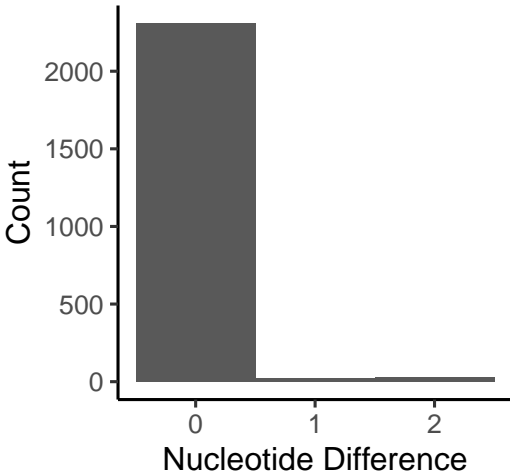
TRBV10-2*ap01

1728 sequences assigned
1713 (99.1%) exact matches, in which:
1671 unique CDR3
13 unique J



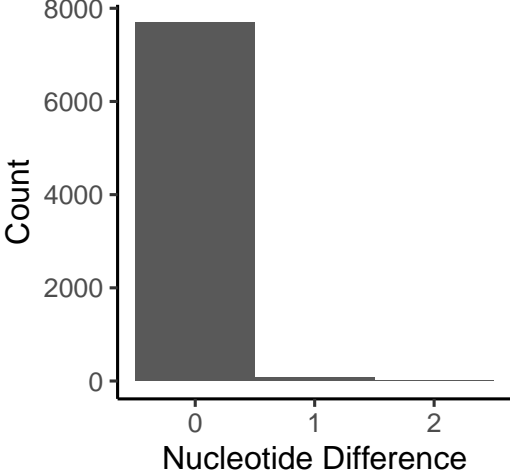
TRBV13*ap01

2359 sequences assigned
2308 (97.8%) exact matches, in which:
2259 unique CDR3
13 unique J



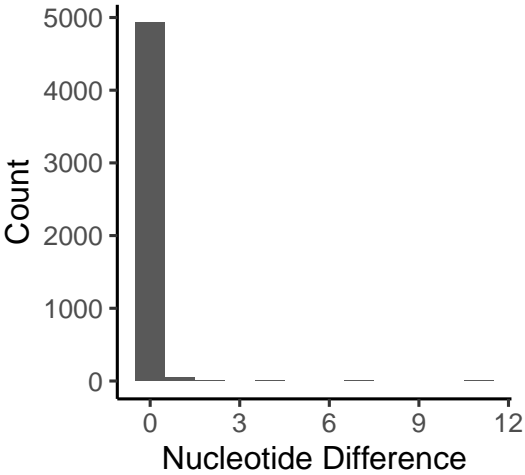
TRBV20-1*ap01

7776 sequences assigned
7690 (98.9%) exact matches, in which:
7558 unique CDR3
13 unique J



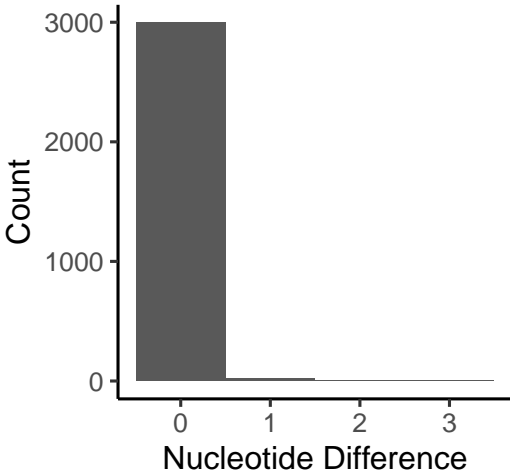
TRBV10-3*ap01

4981 sequences assigned
4928 (98.9%) exact matches, in which:
4823 unique CDR3
13 unique J



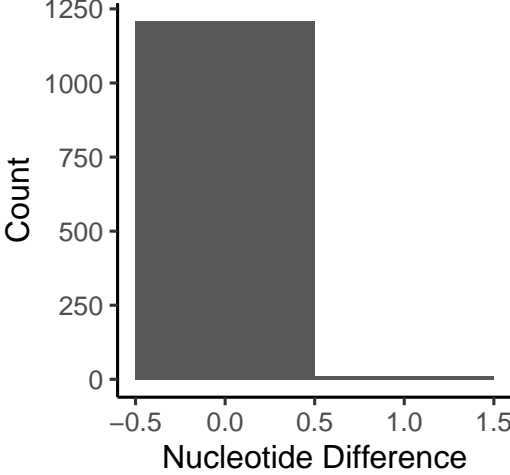
TRBV14*ap01

3023 sequences assigned
2996 (99.1%) exact matches, in which:
2940 unique CDR3
13 unique J



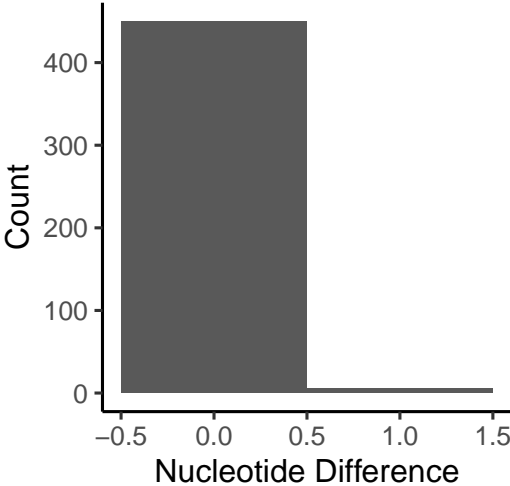
TRBV20-1*ap02

1220 sequences assigned
1209 (99.1%) exact matches, in which:
1193 unique CDR3
13 unique J



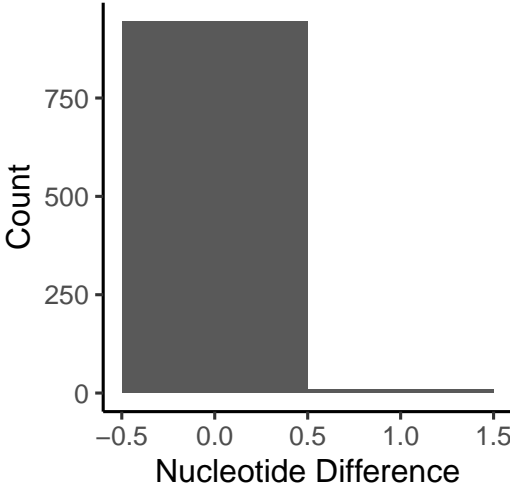
TRBV1*ap01

455 sequences assigned
450 (98.9%) exact matches, in which:
443 unique CDR3
13 unique J



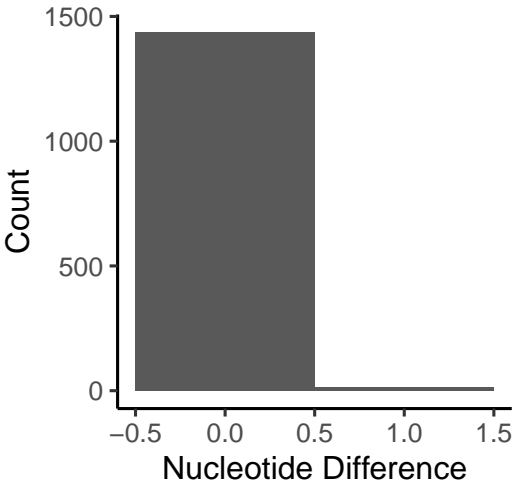
TRBV15*ap01

955 sequences assigned
945 (99%) exact matches, in which:
924 unique CDR3
13 unique J



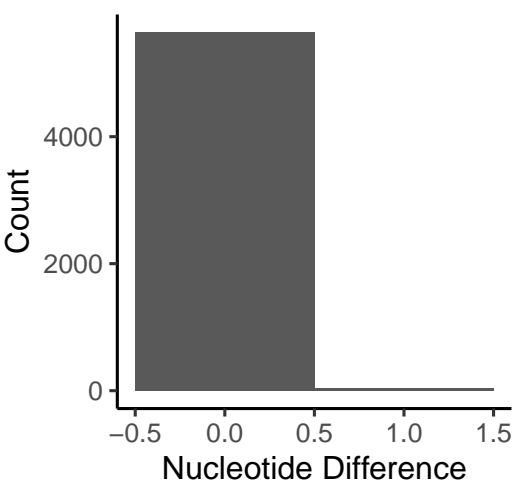
TRBV15*ap02

1452 sequences assigned
1436 (98.9%) exact matches, in which:
1407 unique CDR3
13 unique J



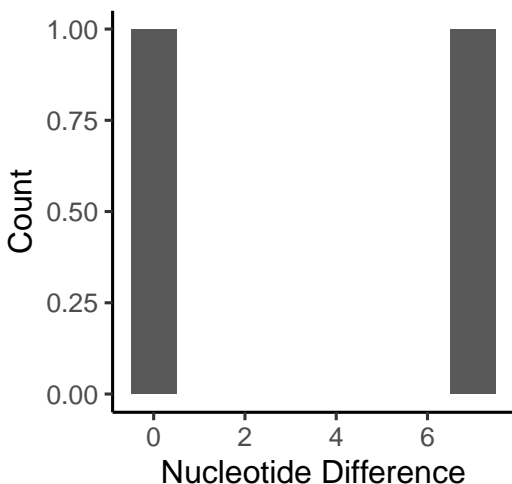
TRBV18*ap01

5683 sequences assigned
5642 (99.3%) exact matches, in which:
5573 unique CDR3
13 unique J



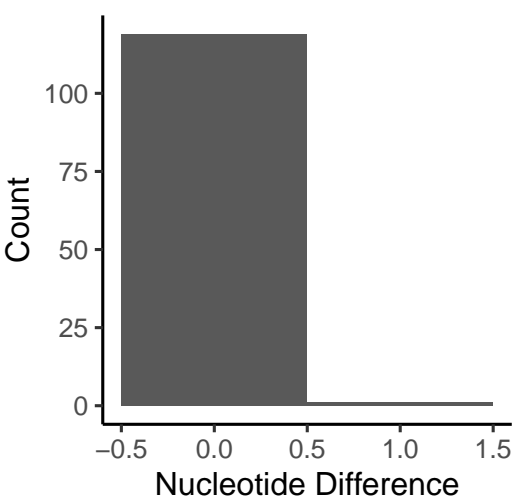
TRBV26*ap01

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



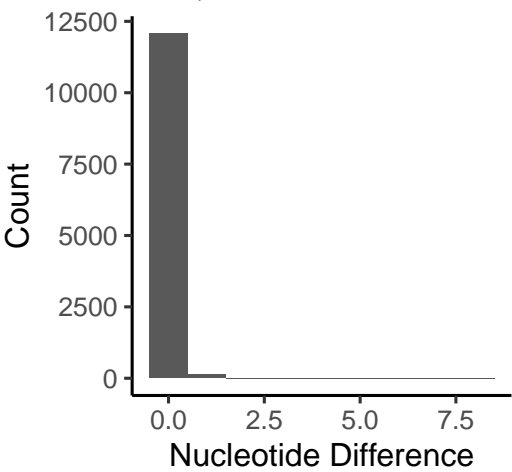
TRBV16*ap01

120 sequences assigned
119 (99.2%) exact matches, in which:
116 unique CDR3
12 unique J



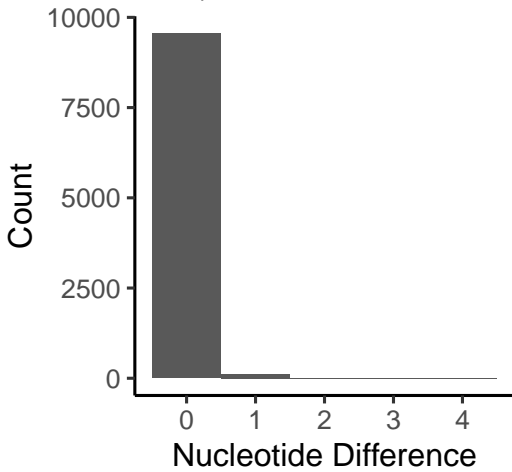
TRBV19*ap01

12221 sequences assigned
12075 (98.8%) exact matches, in which:
11924 unique CDR3
13 unique J



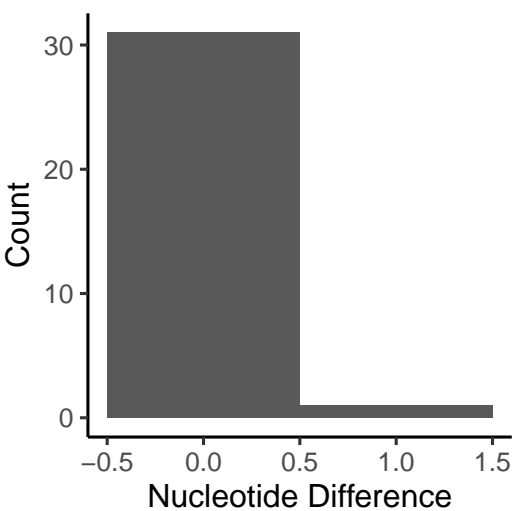
TRBV27*ap01

9673 sequences assigned
9554 (98.8%) exact matches, in which:
9361 unique CDR3
13 unique J



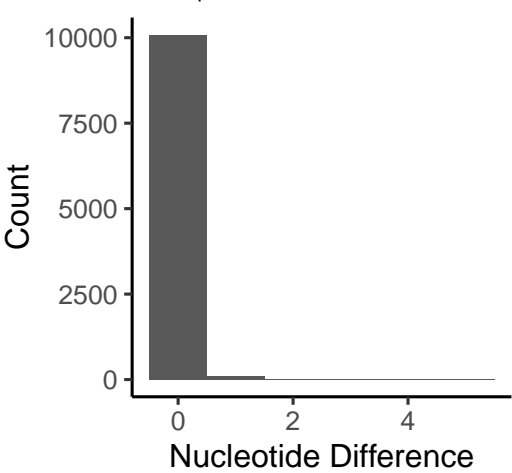
TRBV17*ap01

32 sequences assigned
31 (96.9%) exact matches, in which:
31 unique CDR3
12 unique J



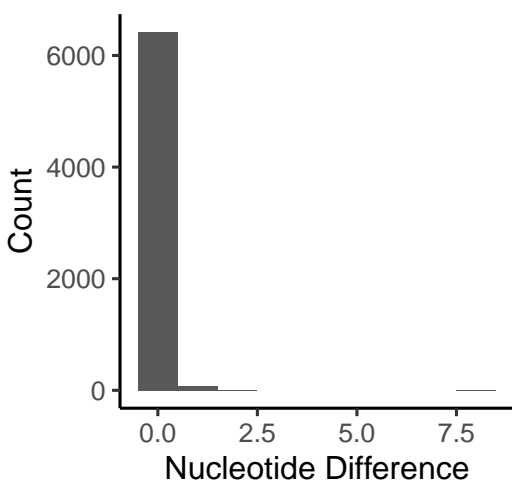
TRBV2*ap01

10193 sequences assigned
10085 (98.9%) exact matches, in which:
9933 unique CDR3
13 unique J



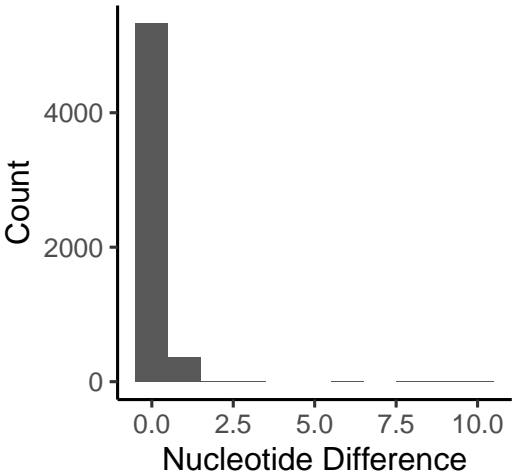
TRBV28*ap01

6502 sequences assigned
6420 (98.7%) exact matches, in which:
6311 unique CDR3
13 unique J



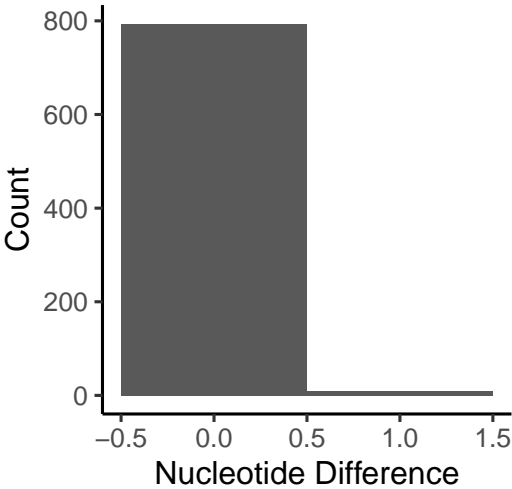
TRBV30*ap01

5702 sequences assigned
5328 (93.4%) exact matches, in which:
5257 unique CDR3
13 unique J



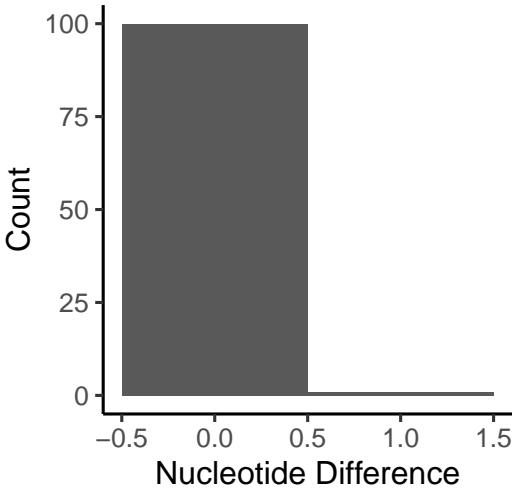
TRBV11-1*ap01

804 sequences assigned
794 (98.8%) exact matches, in which:
781 unique CDR3
13 unique J



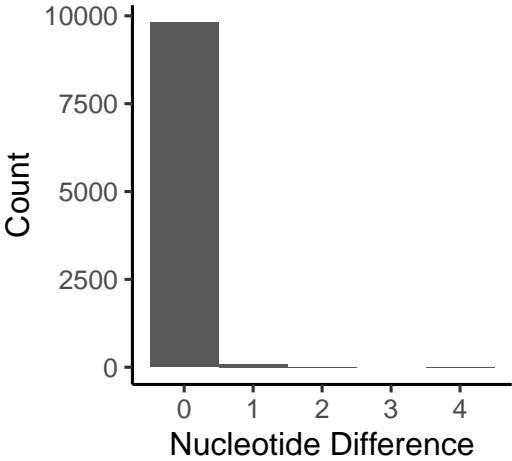
TRBV12-1*ap01

101 sequences assigned
100 (99%) exact matches, in which:
98 unique CDR3
13 unique J



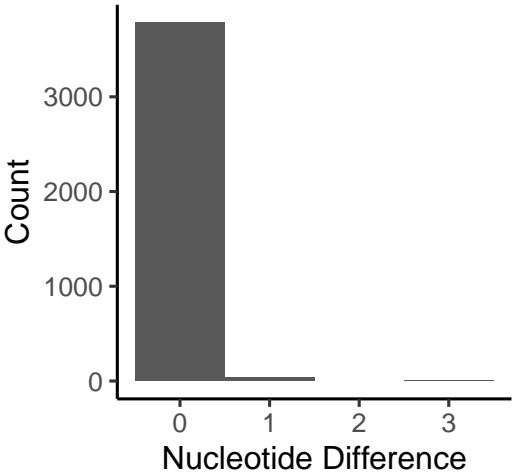
TRBV9*ap01

9909 sequences assigned
9811 (99%) exact matches, in which:
9655 unique CDR3
13 unique J



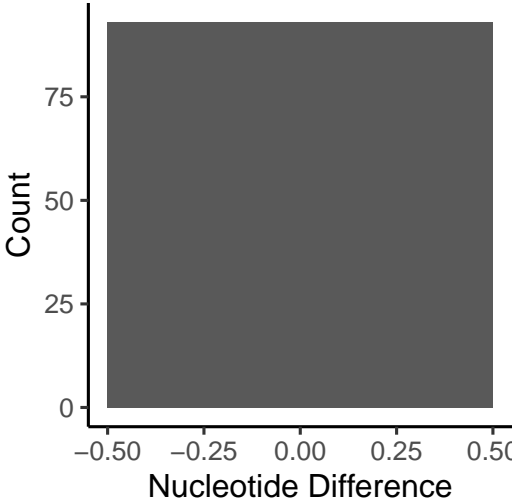
TRBV11-2*ap01

3823 sequences assigned
3782 (98.9%) exact matches, in which:
3683 unique CDR3
13 unique J



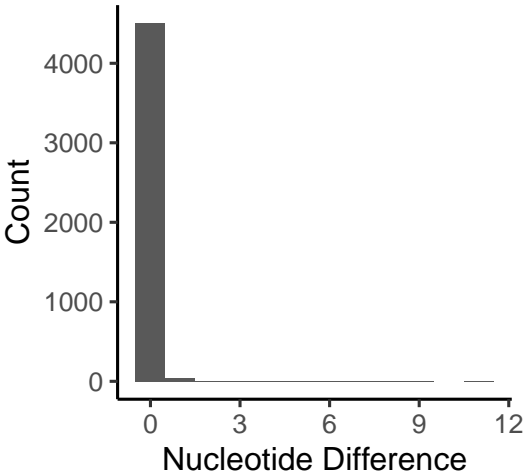
TRBV12-1*ap01_G313T

93 sequences assigned
93 (100%) exact matches, in which:
93 unique CDR3
13 unique J



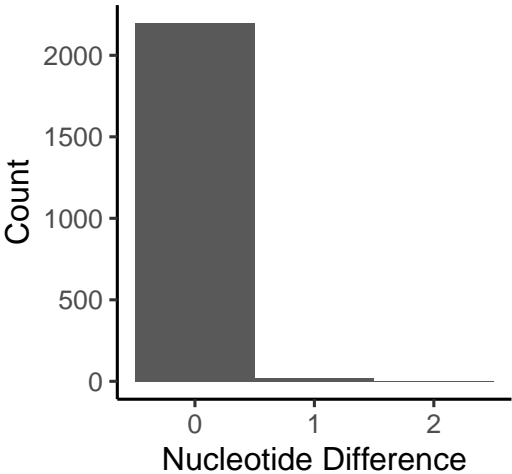
TRBV21-1*ap01

4568 sequences assigned
4506 (98.6%) exact matches, in which:
4435 unique CDR3
14 unique J



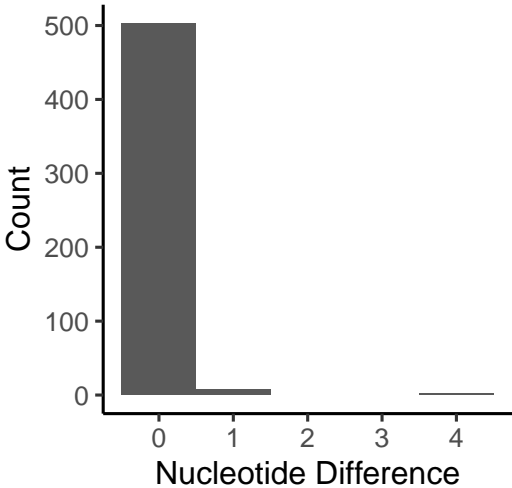
TRBV11-3*ap01

2221 sequences assigned
2198 (99%) exact matches, in which:
2147 unique CDR3
13 unique J



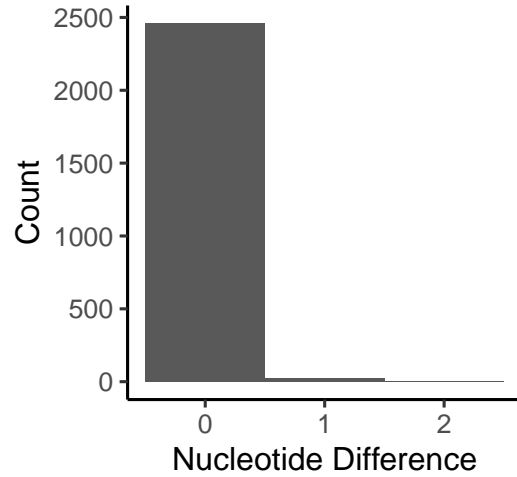
TRBV12-2*ap01

513 sequences assigned
503 (98.1%) exact matches, in which:
490 unique CDR3
13 unique J



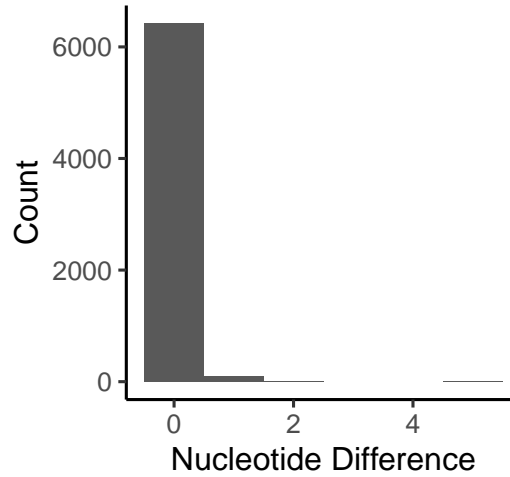
TRBV12-5*ap01

2483 sequences assigned
2459 (99%) exact matches, in which:
2420 unique CDR3
13 unique J



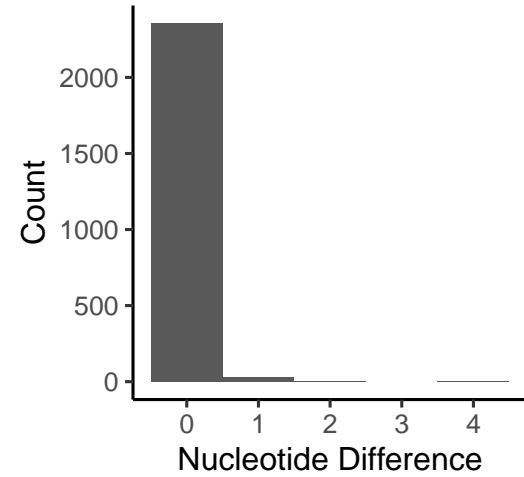
TRBV3-12*ap01

6517 sequences assigned
6421 (98.5%) exact matches, in which:
6305 unique CDR3
13 unique J



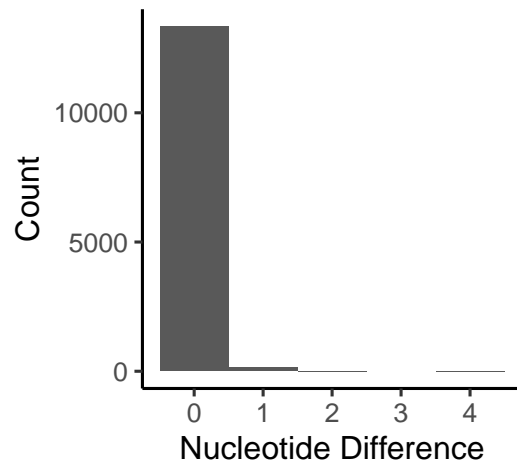
TRBV4-2*ap01

2387 sequences assigned
2355 (98.7%) exact matches, in which:
2317 unique CDR3
13 unique J



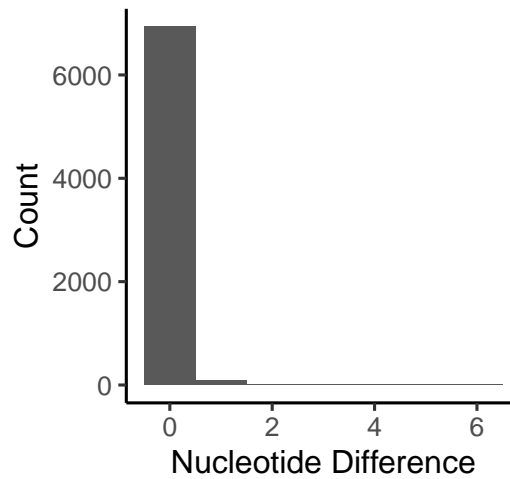
TRBV12-34*ap01

13490 sequences assigned
13340 (98.9%) exact matches, in which:
13132 unique CDR3
13 unique J



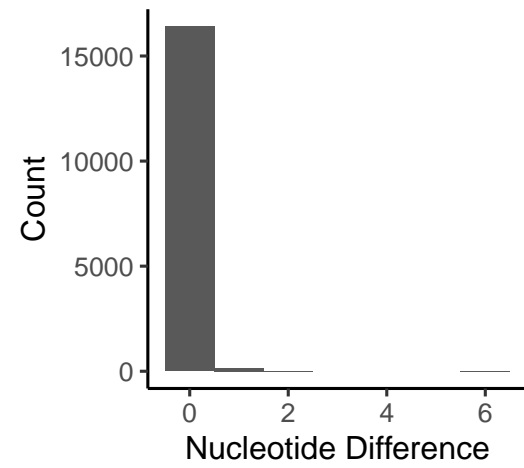
TRBV24-1*ap01

7021 sequences assigned
6933 (98.7%) exact matches, in which:
6828 unique CDR3
13 unique J



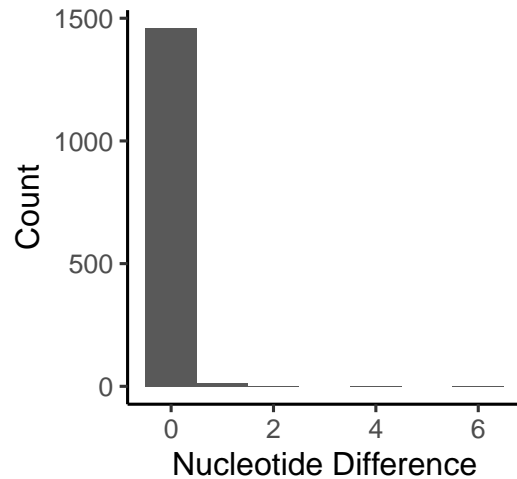
TRBV5-1*ap01

16575 sequences assigned
16405 (99%) exact matches, in which:
16015 unique CDR3
13 unique J



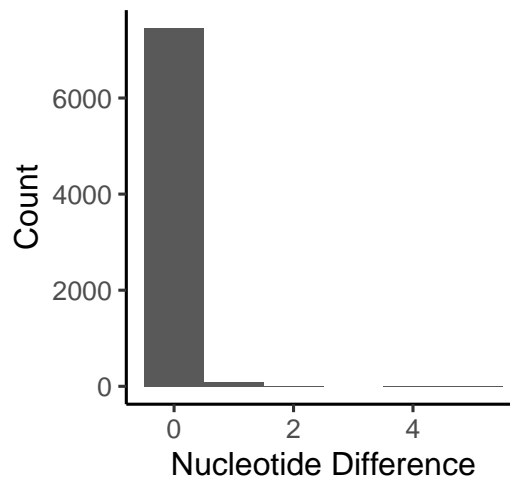
TRBV23-1*ap01

1477 sequences assigned
1460 (98.8%) exact matches, in which:
1437 unique CDR3
13 unique J



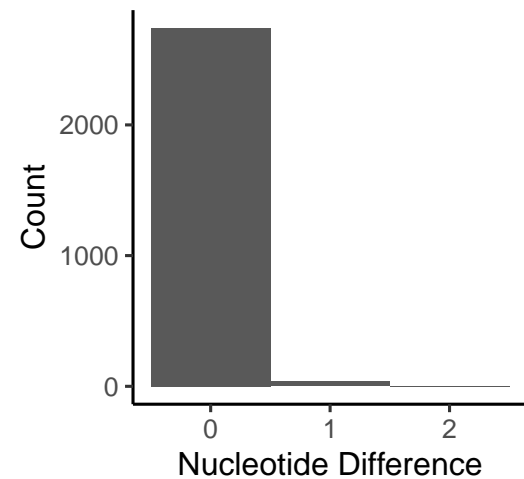
TRBV4-1*ap01

7549 sequences assigned
7456 (98.8%) exact matches, in which:
7330 unique CDR3
13 unique J



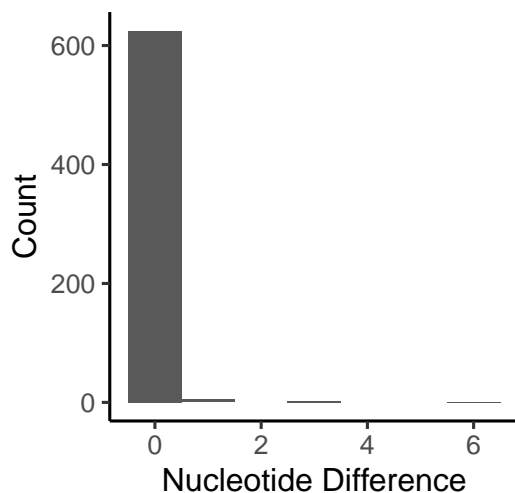
TRBV25-1*ap01

2781 sequences assigned
2741 (98.6%) exact matches, in which:
2695 unique CDR3
13 unique J



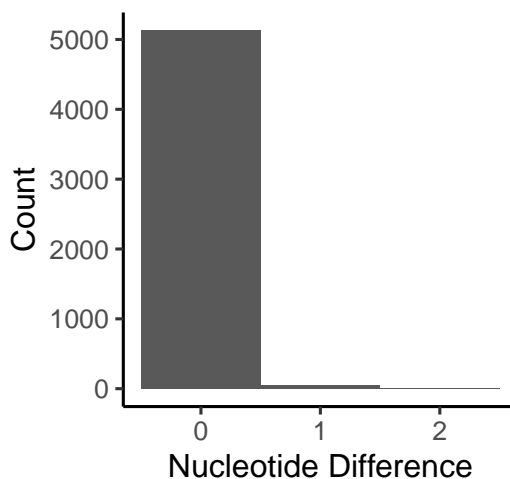
TRBV5-3*ap01

633 sequences assigned
625 (98.7%) exact matches, in which:
613 unique CDR3
13 unique J



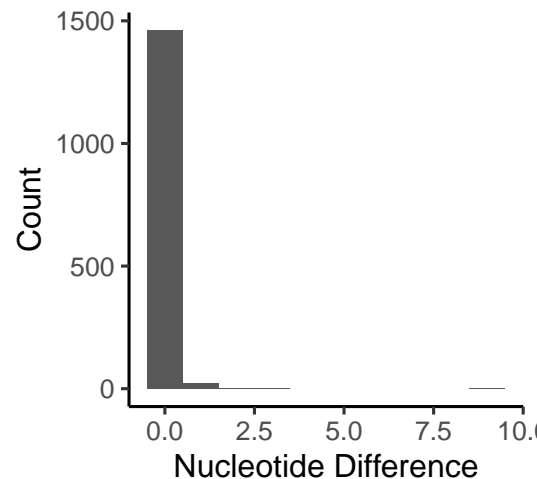
TRBV5-6*ap01

5185 sequences assigned
5130 (98.9%) exact matches, in which:
5015 unique CDR3
14 unique J



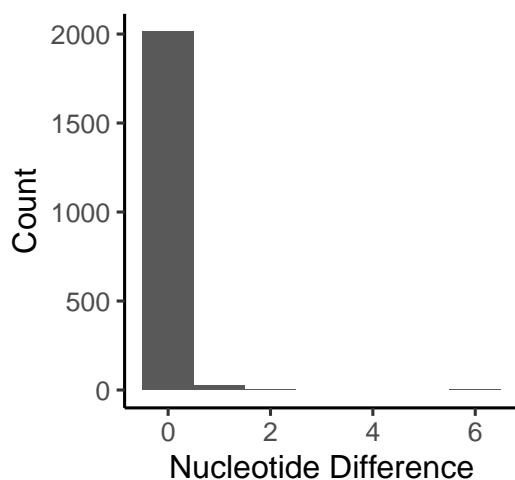
TRBV5-8*ap01

1492 sequences assigned
1461 (97.9%) exact matches, in which:
1426 unique CDR3
13 unique J



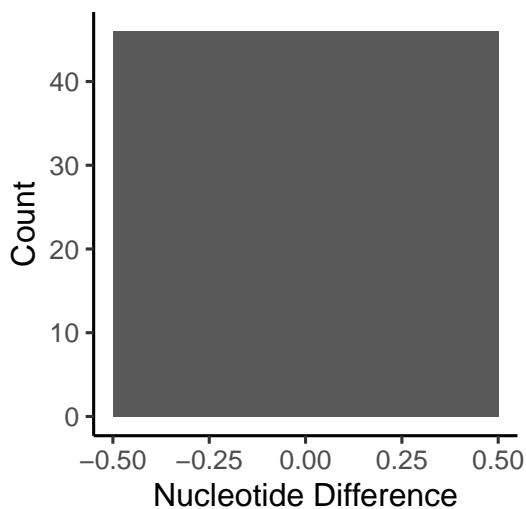
TRBV5-4*ap01

2038 sequences assigned
2013 (98.8%) exact matches, in which:
1969 unique CDR3
13 unique J



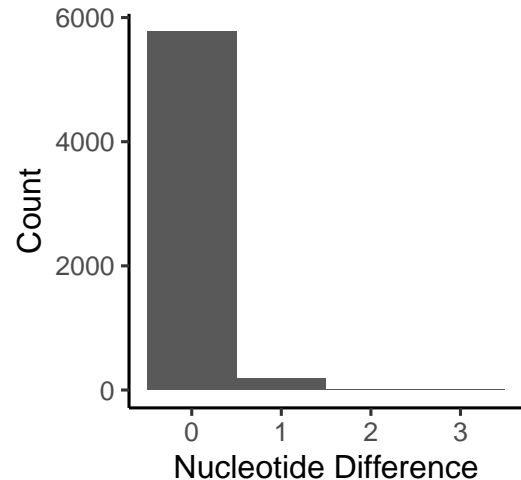
TRBV5-7*ap01

46 sequences assigned
46 (100%) exact matches, in which:
46 unique CDR3
11 unique J



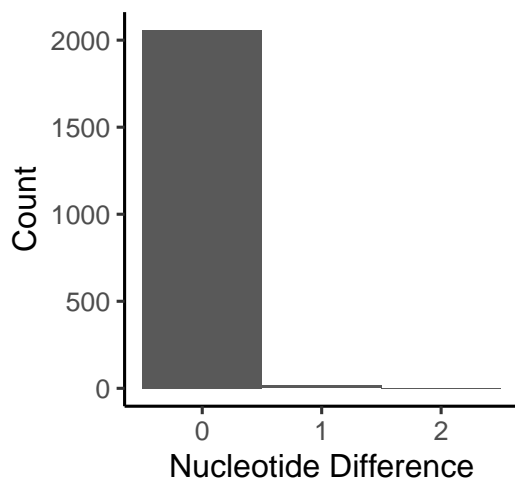
TRBV6-1*ap01

5965 sequences assigned
5772 (96.8%) exact matches, in which:
5641 unique CDR3
13 unique J



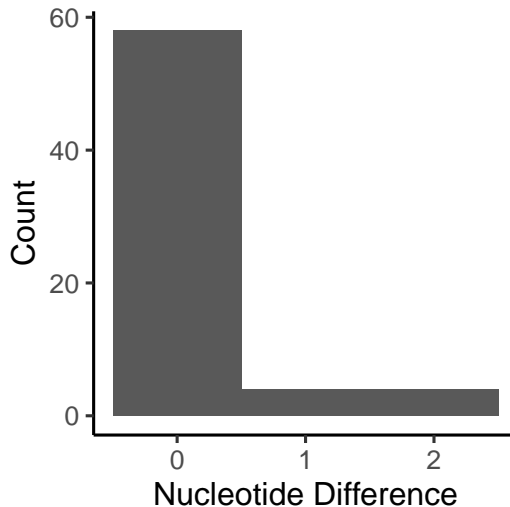
TRBV5-5*ap01

2076 sequences assigned
2058 (99.1%) exact matches, in which:
2035 unique CDR3
13 unique J



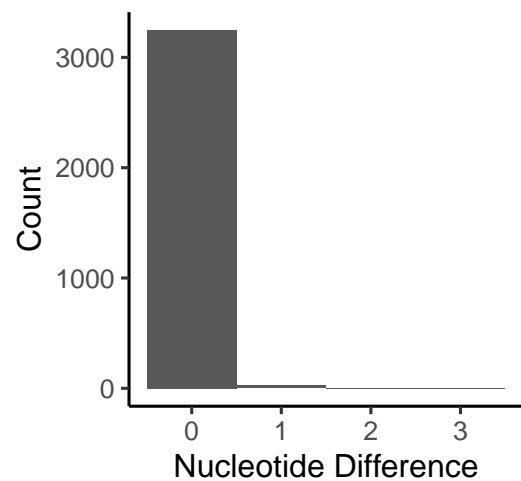
TRBV5-7*ap01_G290A

66 sequences assigned
58 (87.9%) exact matches, in which:
58 unique CDR3
12 unique J



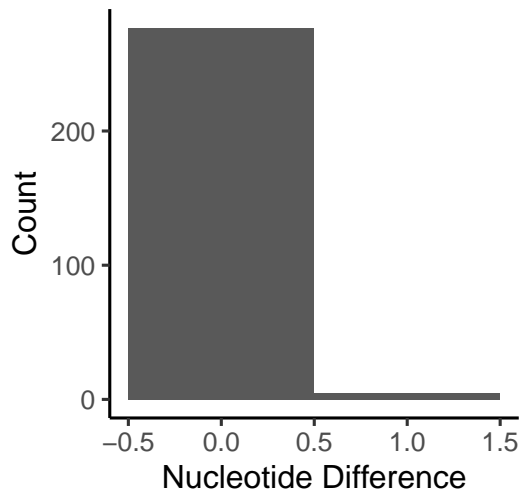
TRBV6-4*ap01

3278 sequences assigned
3248 (99.1%) exact matches, in which:
3191 unique CDR3
13 unique J



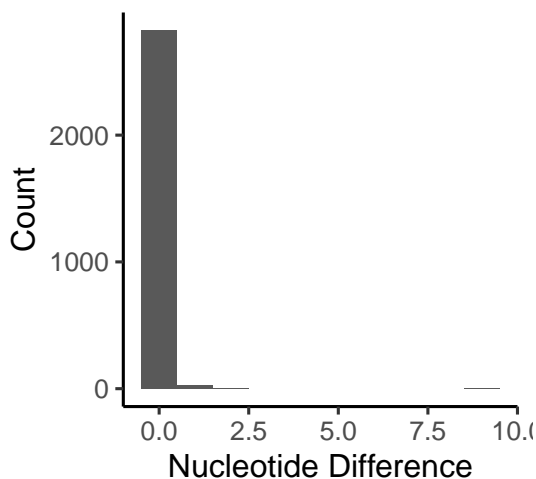
TRBV6-7*ap01

282 sequences assigned
277 (98.2%) exact matches, in which:
273 unique CDR3
13 unique J



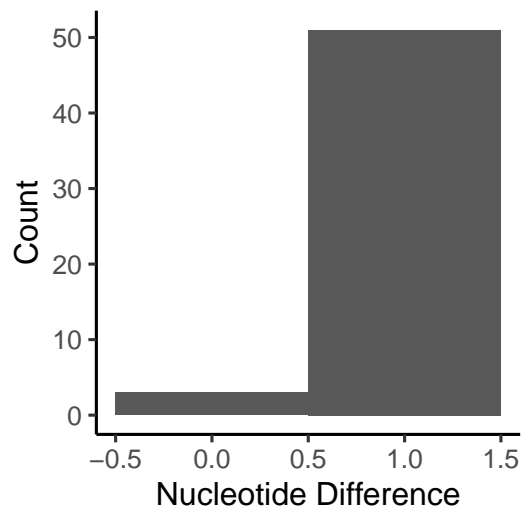
TRBV6-23*ap01

2854 sequences assigned
2826 (99%) exact matches, in which:
2781 unique CDR3
13 unique J



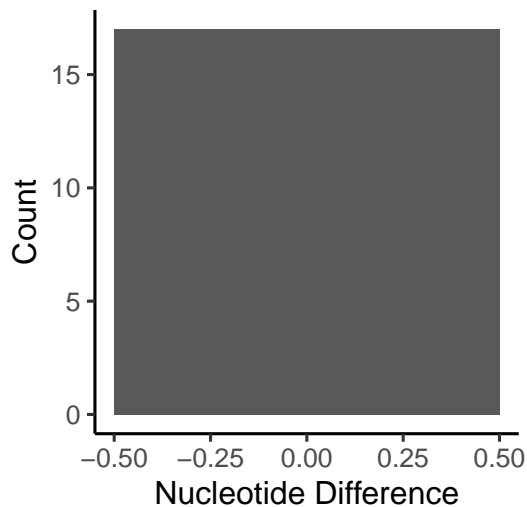
TRBV7-1*ap01_T296C

54 sequences assigned
3 (5.6%) exact matches, in which:
3 unique CDR3
3 unique J



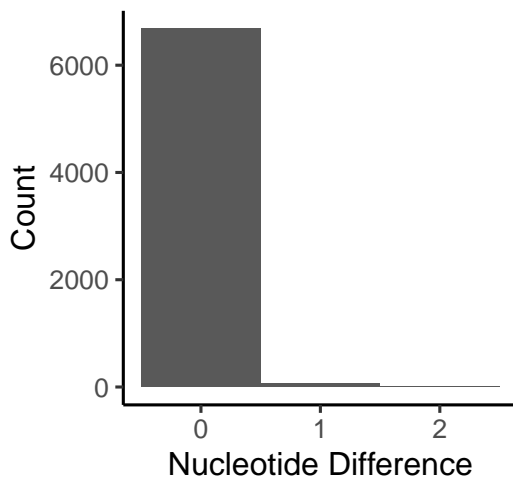
TRBV6-8*ap01_A293G

17 sequences assigned
17 (100%) exact matches, in which:
17 unique CDR3
8 unique J



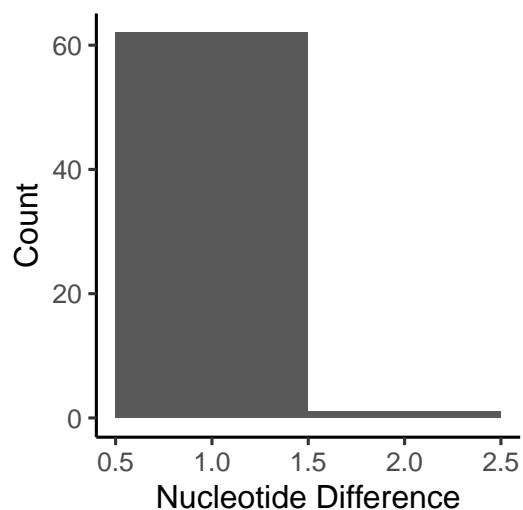
TRBV6-56*ap01

6755 sequences assigned
6680 (98.9%) exact matches, in which:
6551 unique CDR3
13 unique J



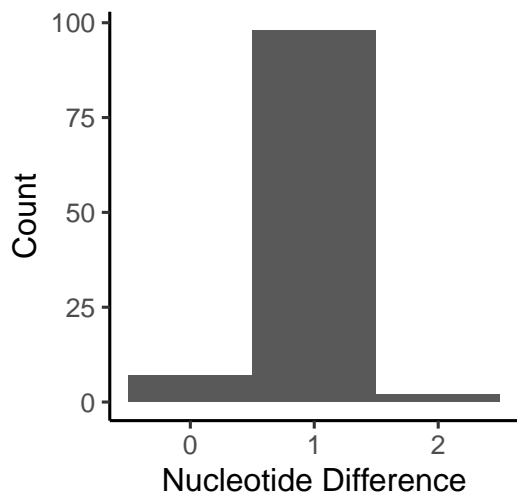
TRBV7-1*ap01_T296C_C

63 sequences assigned
No exact matches.



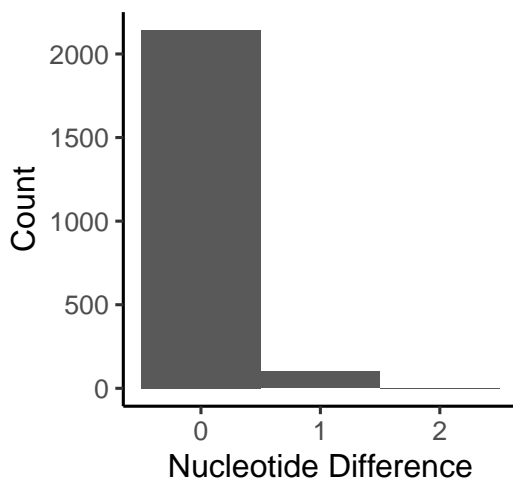
TRBV6-9*ap01

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



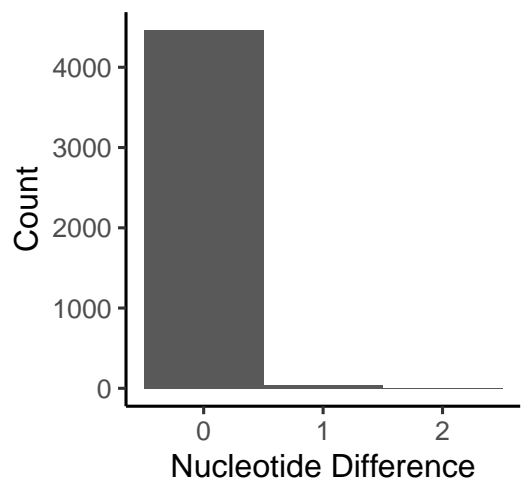
TRBV6-56*ap02

2245 sequences assigned
2143 (95.5%) exact matches, in which:
2098 unique CDR3
13 unique J



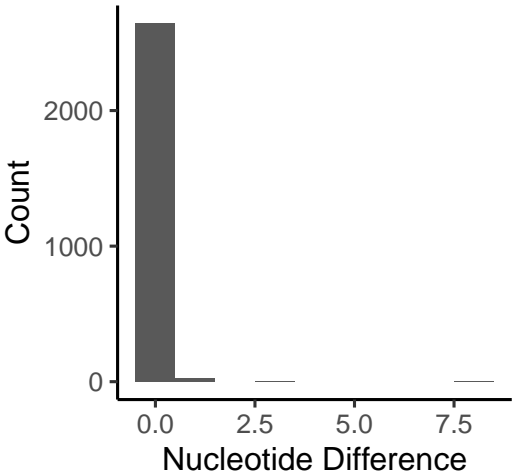
TRBV7-2*ap01

4509 sequences assigned
4464 (99%) exact matches, in which:
4387 unique CDR3
13 unique J



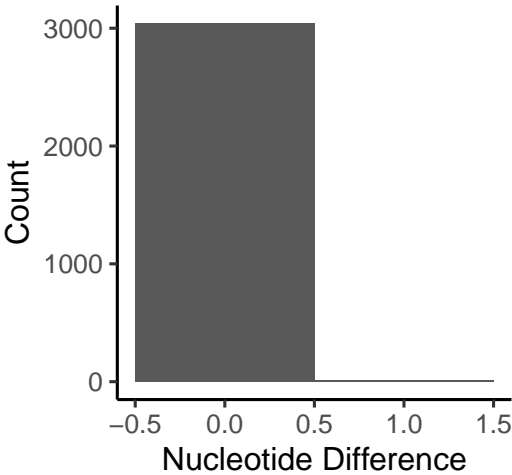
TRBV7-3*ap01

2674 sequences assigned
2643 (98.8%) exact matches, in which:
2606 unique CDR3
13 unique J



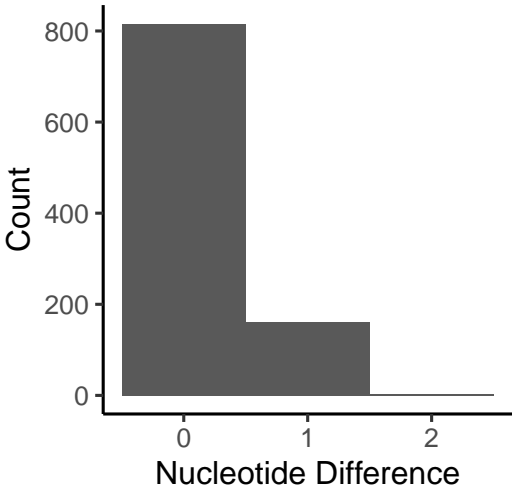
TRBV7-6*ap01

3058 sequences assigned
3041 (99.4%) exact matches, in which:
2964 unique CDR3
13 unique J



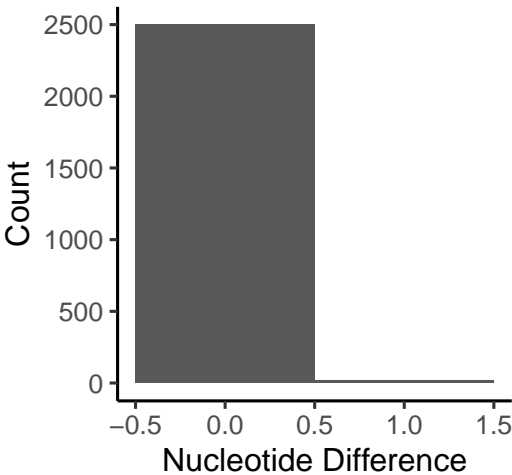
TRBV7-8*ap03

980 sequences assigned
816 (83.3%) exact matches, in which:
797 unique CDR3
13 unique J



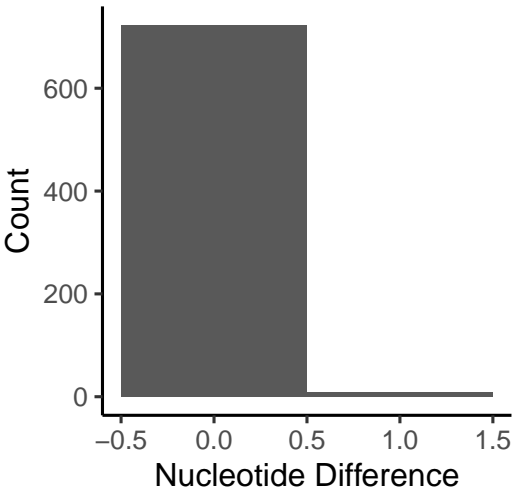
TRBV7-3*ap01_G301A

2517 sequences assigned
2499 (99.3%) exact matches, in which:
2455 unique CDR3
13 unique J



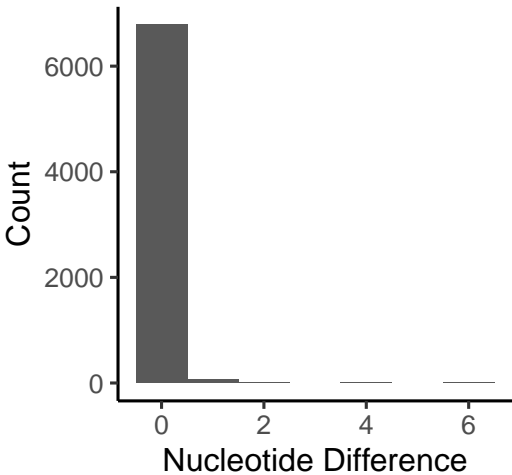
TRBV7-7*ap01

732 sequences assigned
723 (98.8%) exact matches, in which:
704 unique CDR3
13 unique J



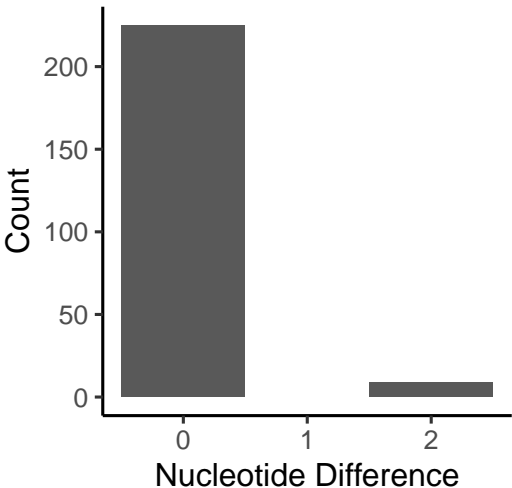
TRBV7-9*ap01

6850 sequences assigned
6784 (99%) exact matches, in which:
6695 unique CDR3
13 unique J



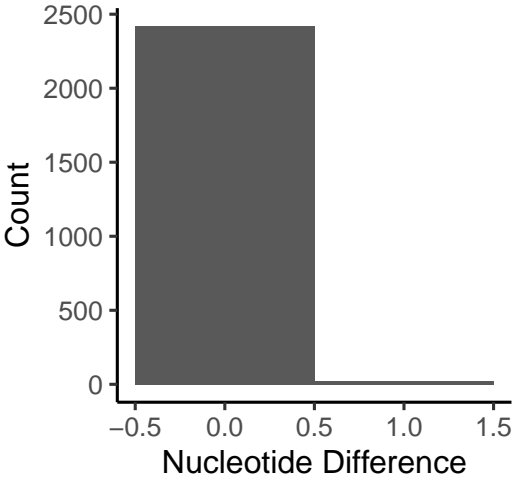
TRBV7-4*ap01

234 sequences assigned
225 (96.2%) exact matches, in which:
220 unique CDR3
13 unique J



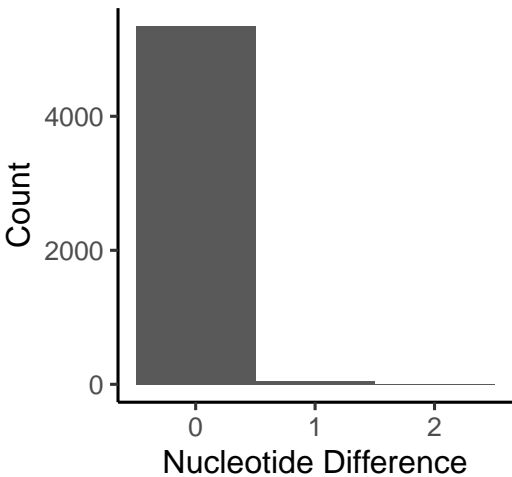
TRBV7-8*ap01

2441 sequences assigned
2420 (99.1%) exact matches, in which:
2376 unique CDR3
13 unique J



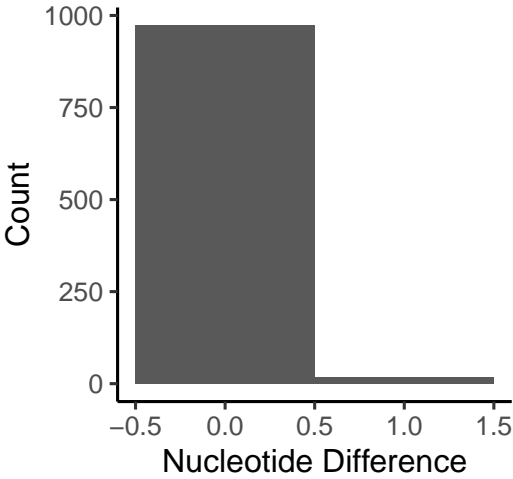
TRBV29-1*ap01

5402 sequences assigned
5347 (99%) exact matches, in which:
5270 unique CDR3
13 unique J

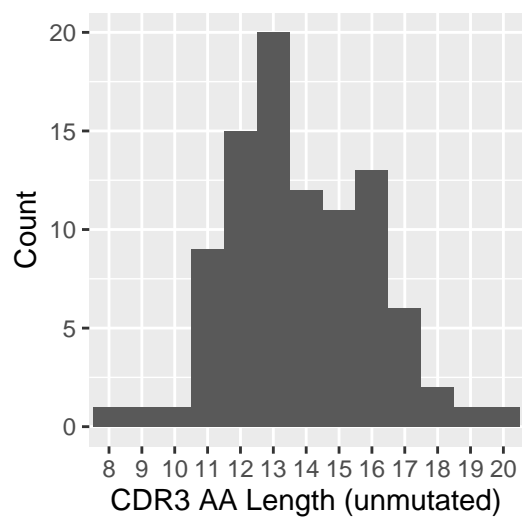


TRBV29-1*ap02

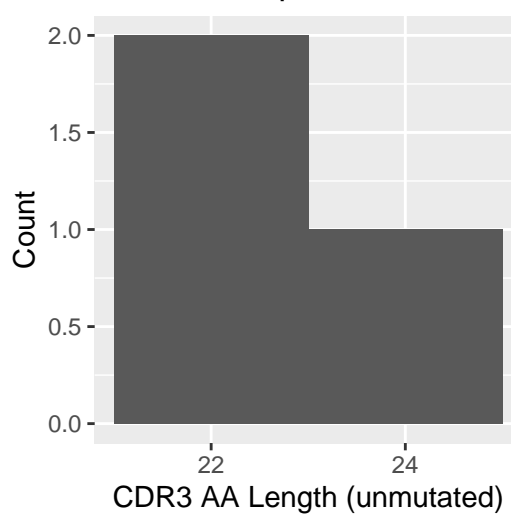
990 sequences assigned
973 (98.3%) exact matches, in which:
959 unique CDR3
13 unique J



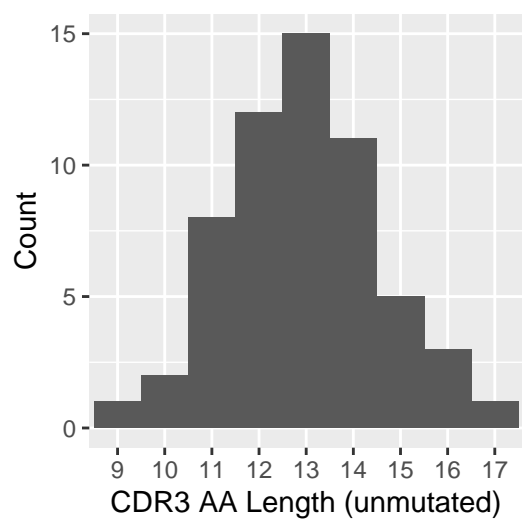
TRBV12-1*ap01_G313T



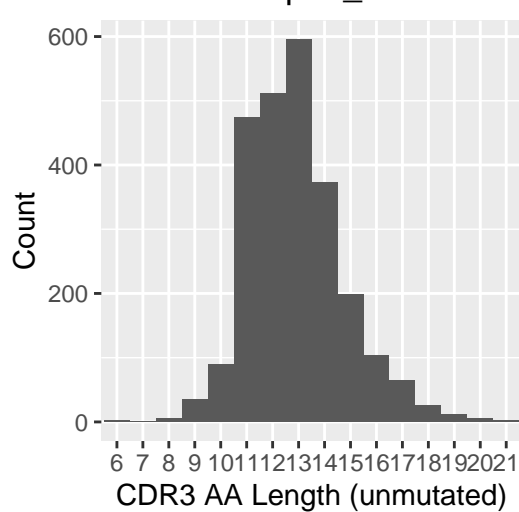
TRBV7-1*ap01_T296C



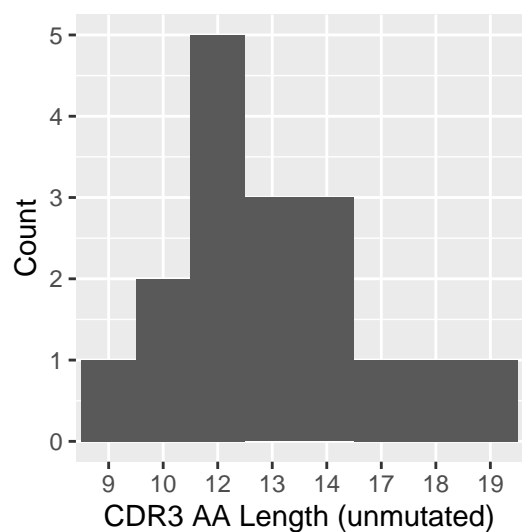
TRBV5-7*ap01_G290A

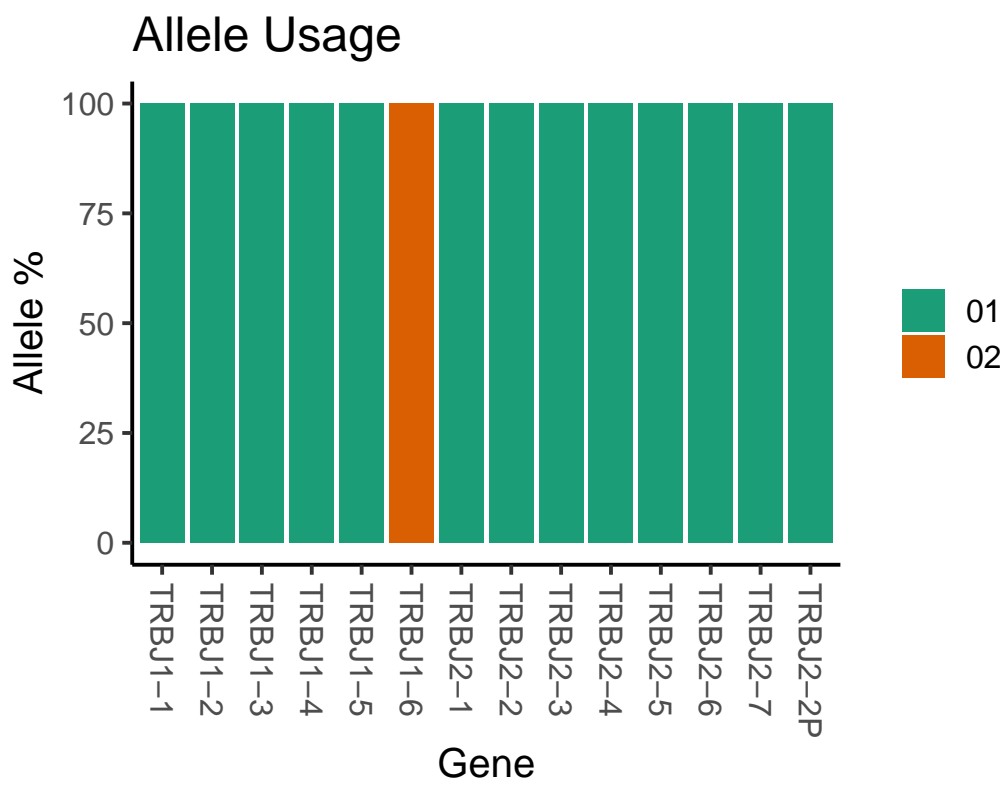


TRBV7-3*ap01_G301A



TRBV6-8*ap01_A293G





[illegible]