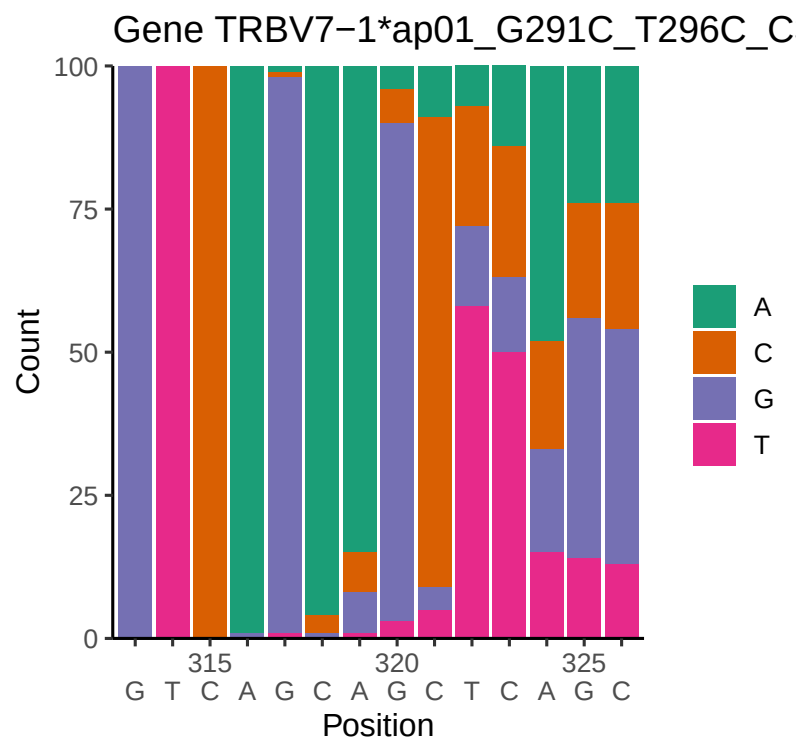
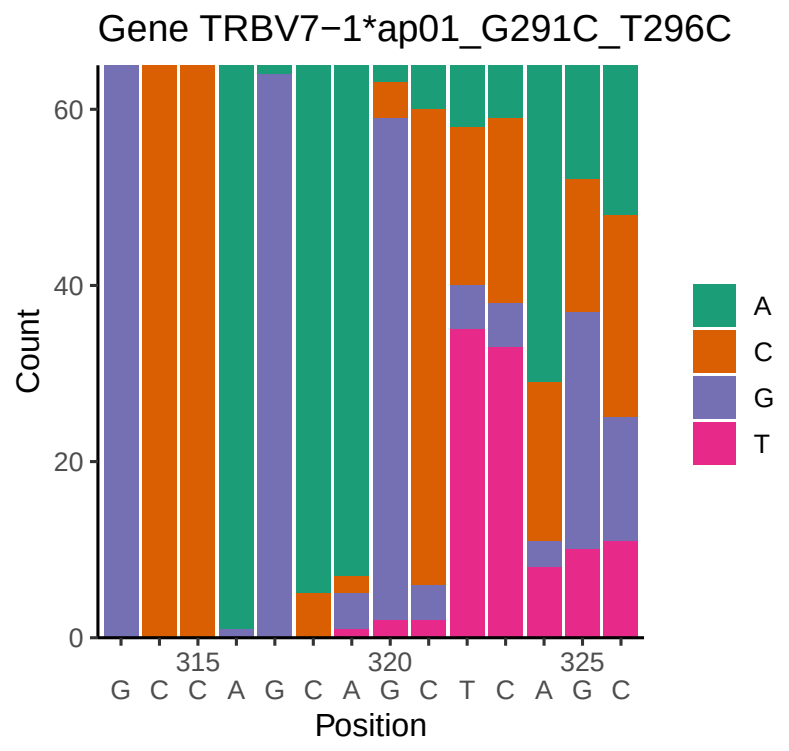
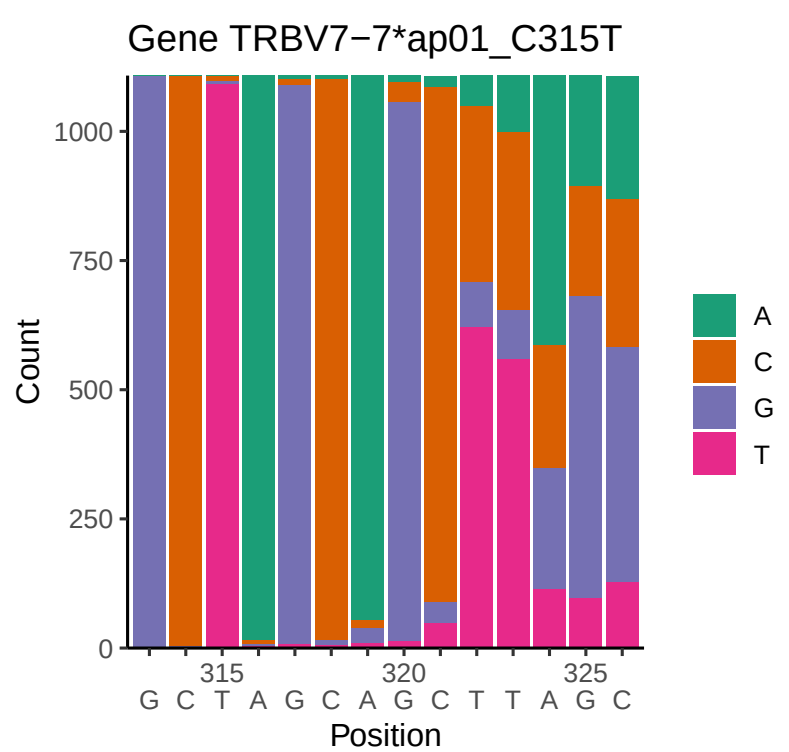
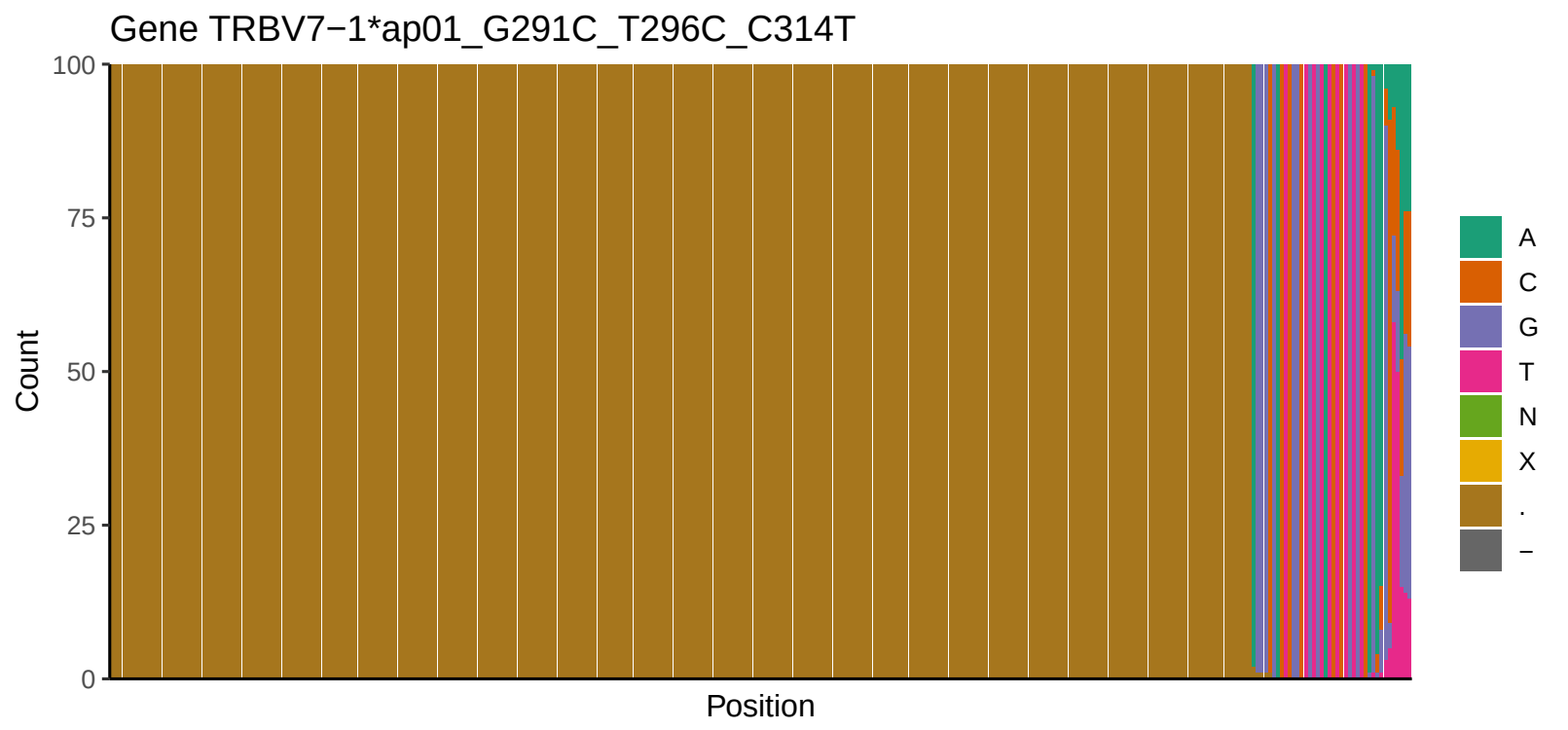
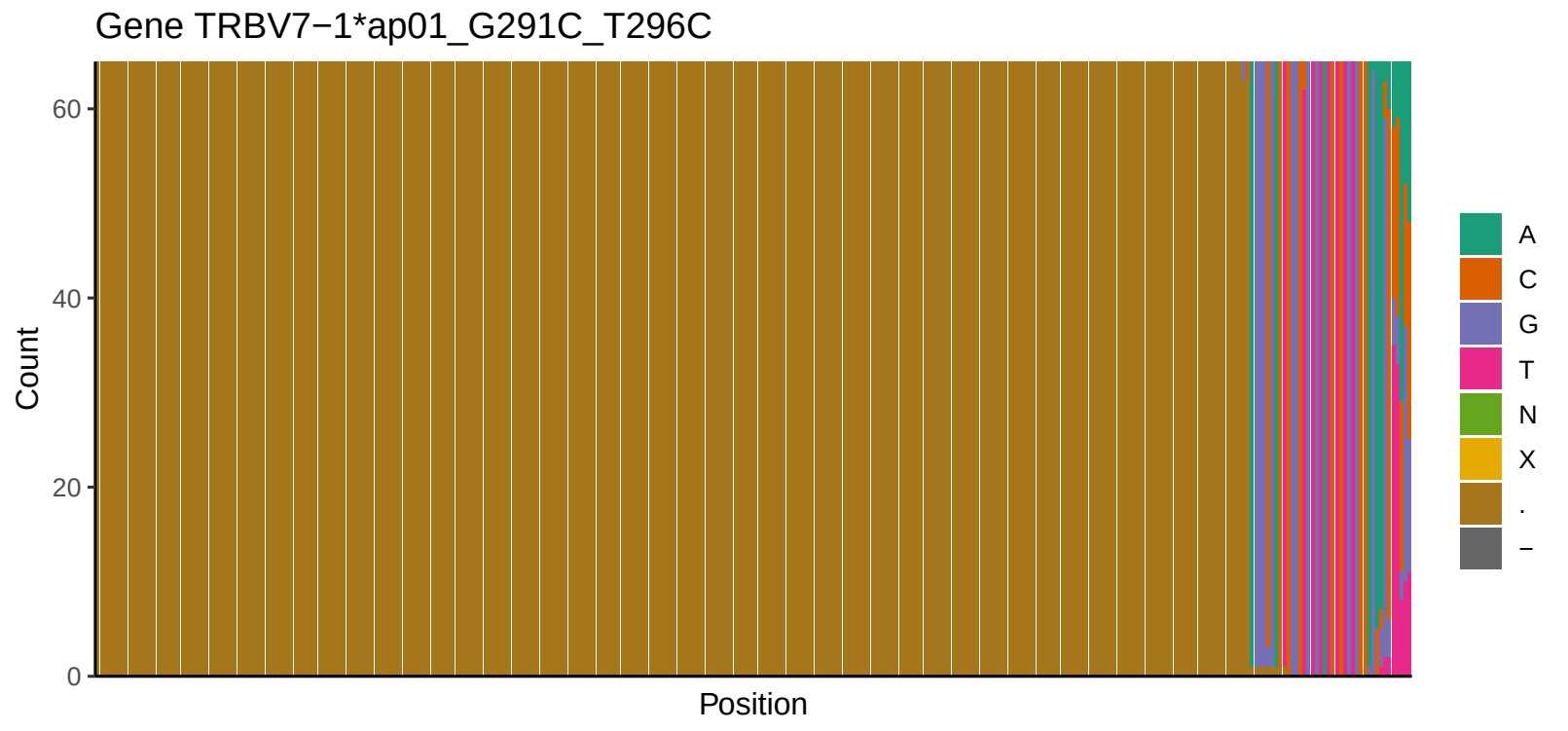
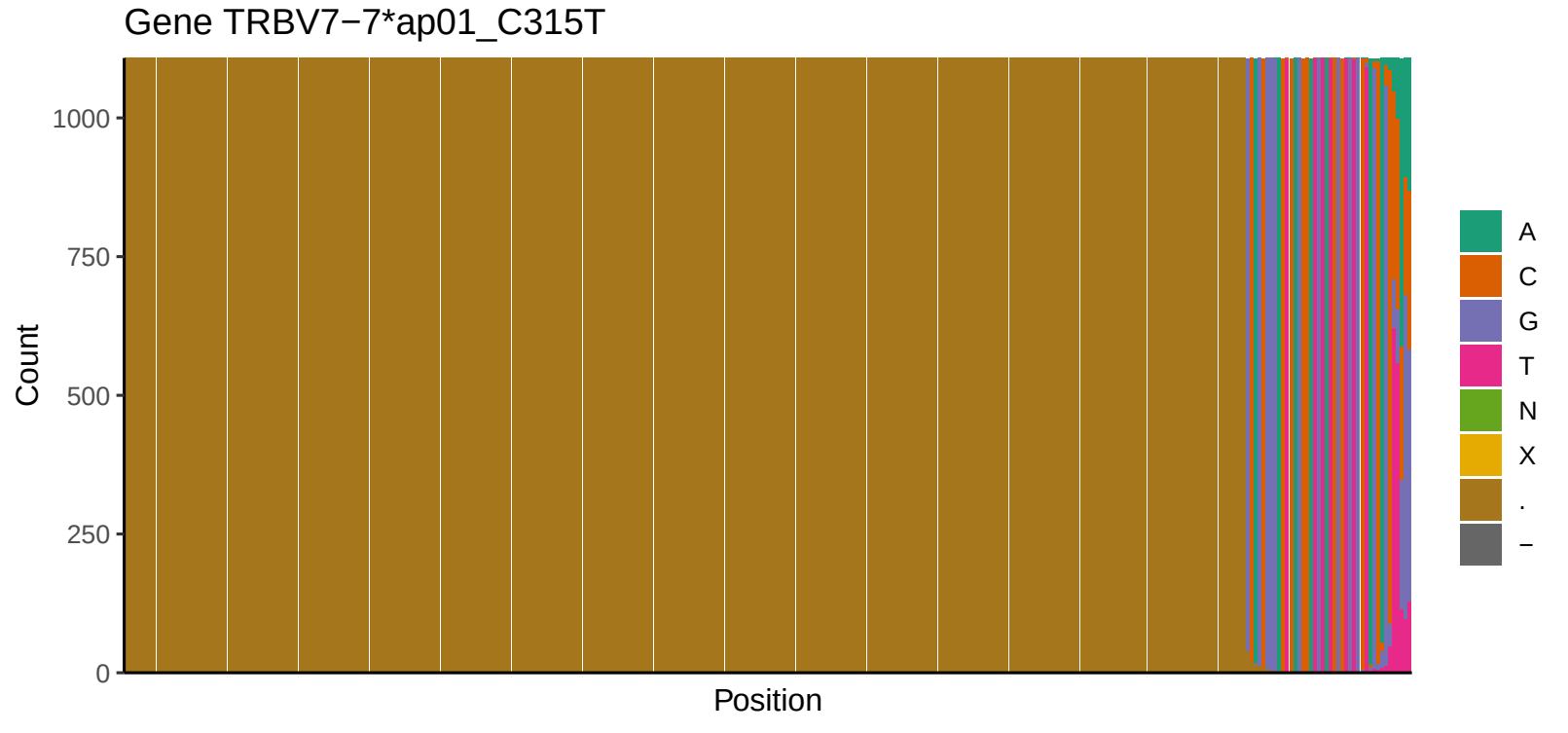

Gene TRBV7−1*ap01_G291C_T296C_C314T
Count
100
75
50
25
0
315
320
325
G T C A G C A G C T C A G C
Position
A
C
G
T

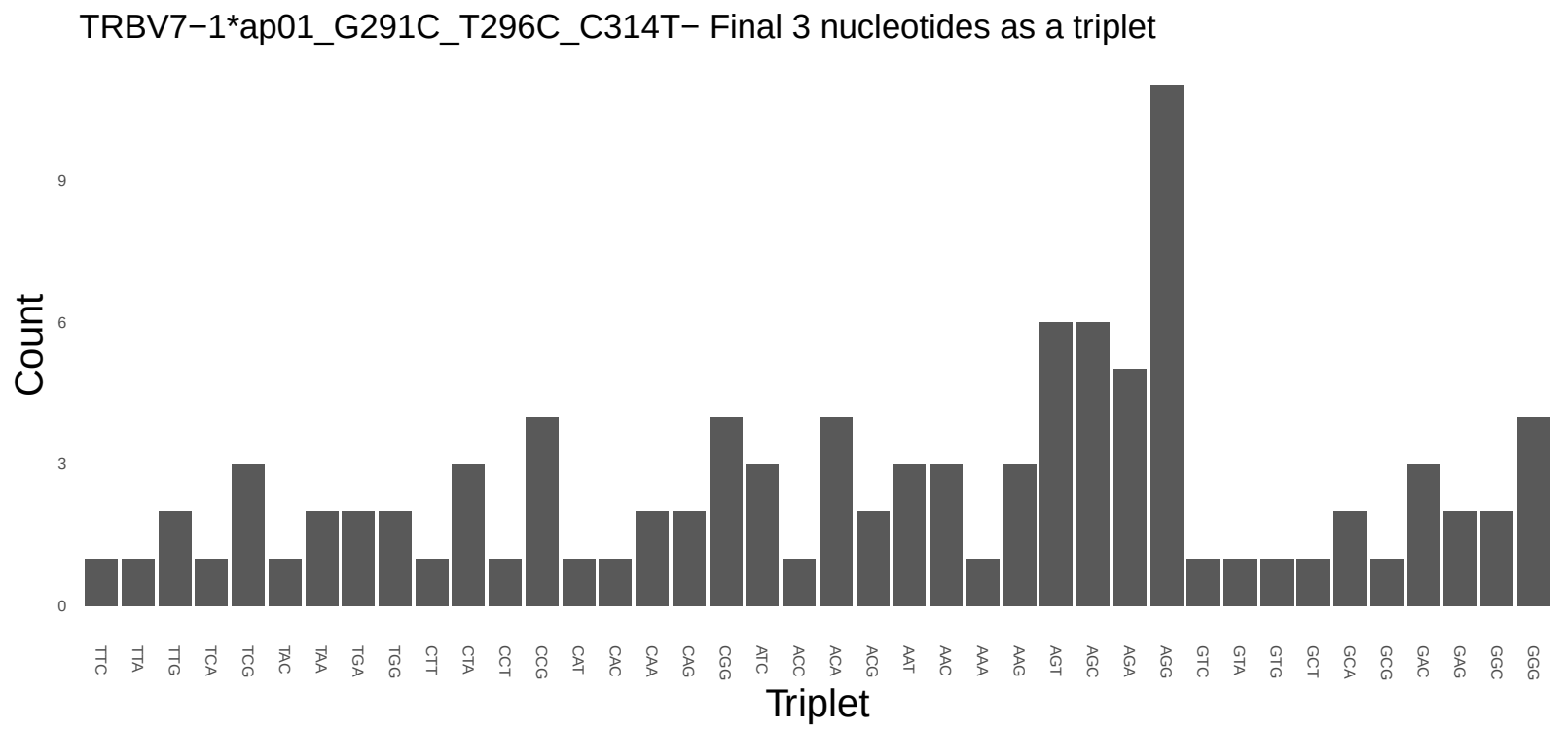

Gene TRBV7−1*ap01_G291C_T296C
Count
60
40
20
0
315
320
325
G C C A G C A G C T C A G C
Position
A
C
G
T

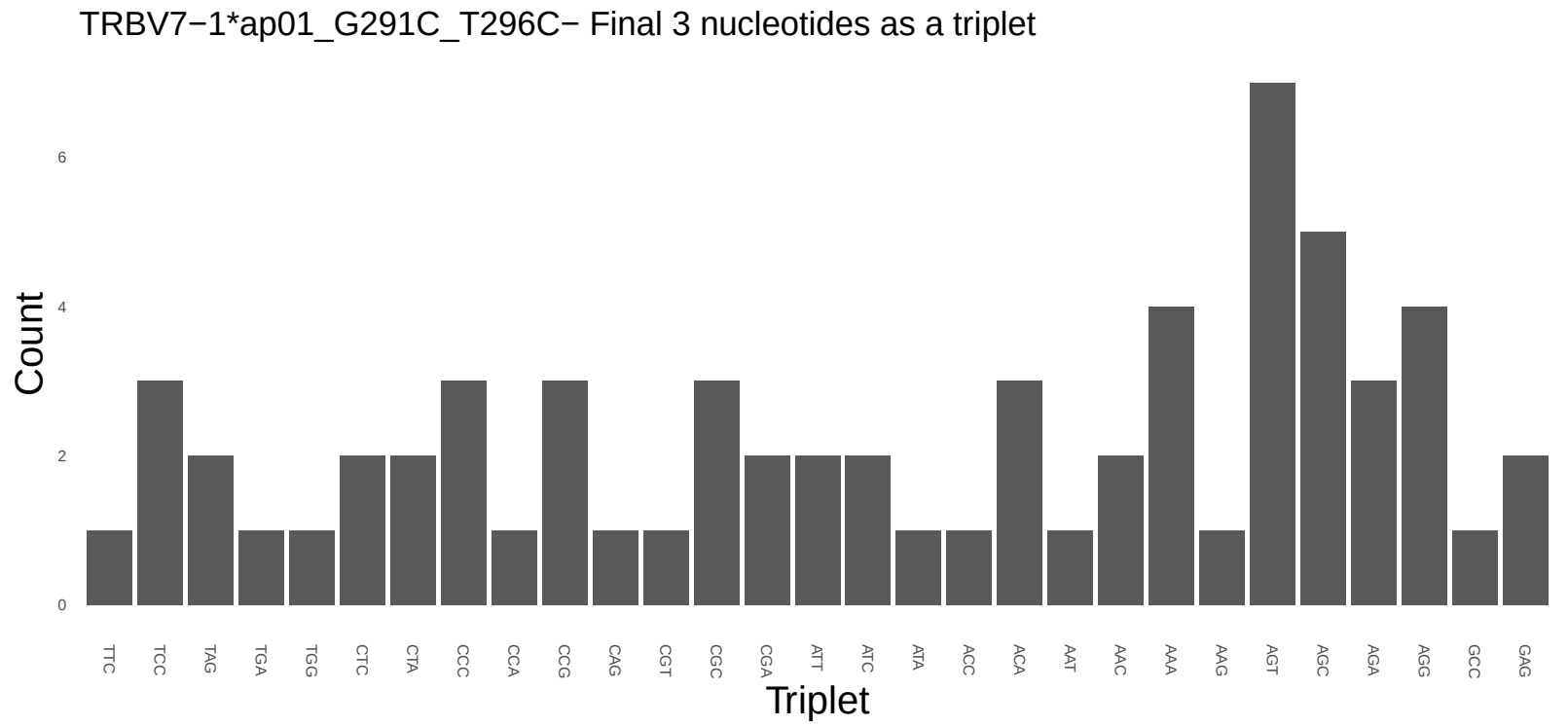

Gene TRBV7−7*ap01_C315T
Count
1000
750
500
250
0
315
320
325
G C T A G C A G C T T A G C
Position
A
C
G
T

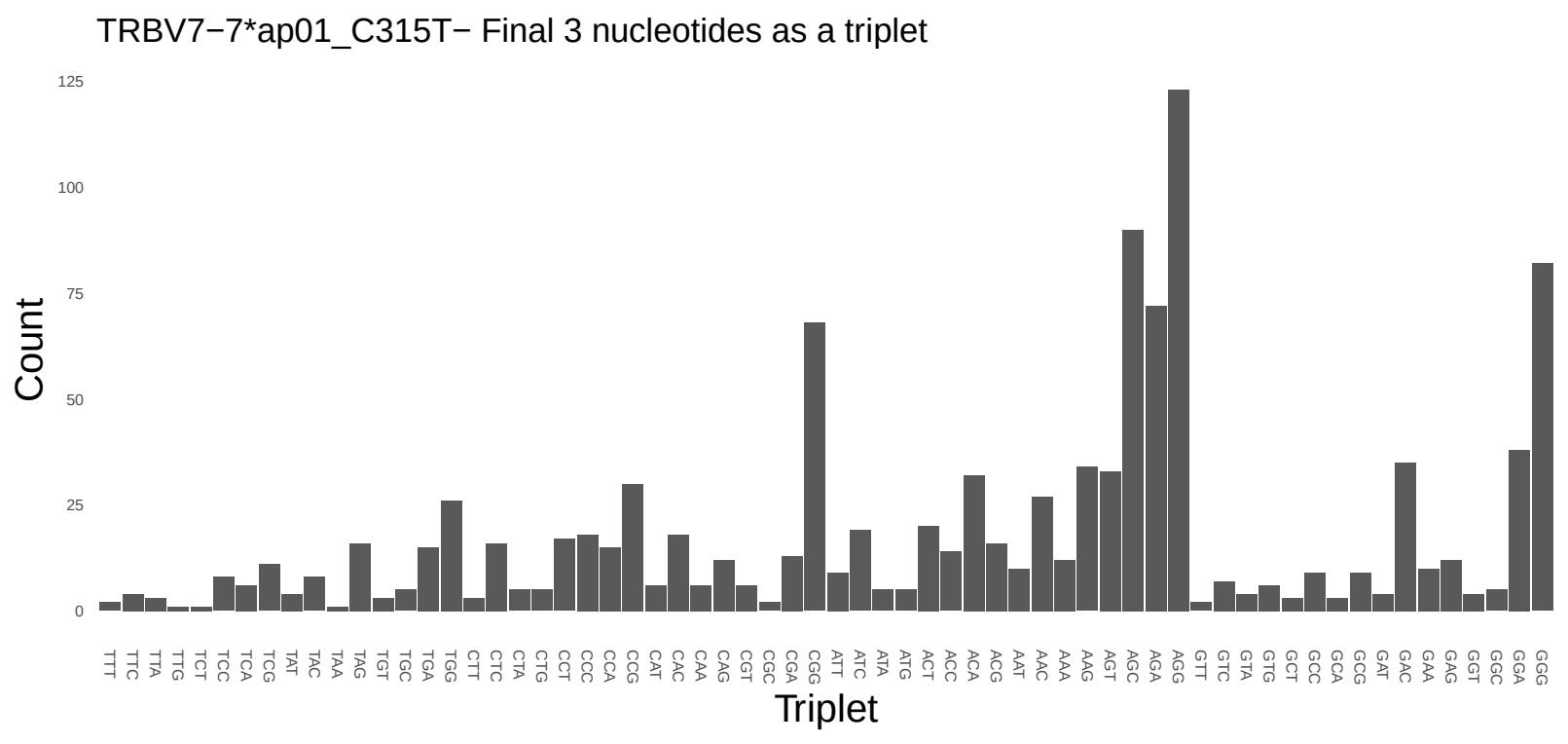

Gene TRBV7−1*ap01_G291C_T296C_C314T
Count
100
75
50
25
0
Position
A
C
G
T
N
X
.
–


Gene TRBV7−1*ap01_G291C_T296C
Count
60
40
20
0
Position
A
C
G
T
N
X
.
–


Gene TRBV7−7*ap01_C315T
Count
1000
750
500
250
0
Position
A
C
G
T
N
X
.
–

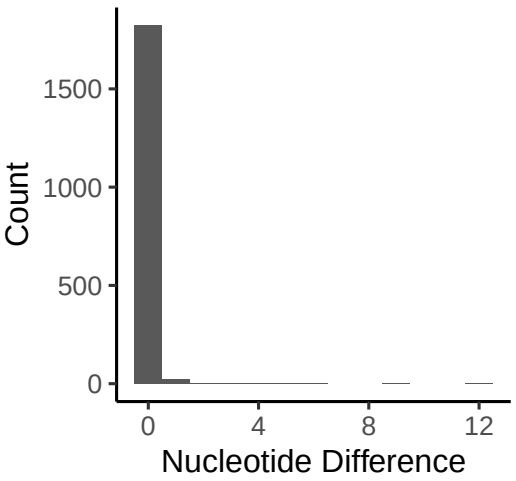

TRBV7−1*ap01_G291C_T296C_C314T− Final 3 nucleotides as a triplet
Count
0
3
6
9
TTC TTA TTG TCA TCG TAC TAA TGA TGG CTT CTA CCT CCG CAT CAC CAA CAG CGG ATC ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTC GTA GTG GCT GCA GCG GAC GAG GGC GGG
Triplet


TRBV7−1*ap01_G291C_T296C− Final 3 nucleotides as a triplet
Count
0
2
4
6
TTC TCC TAG TGA TGG CTC CTA CCC CCA CCG CAG CGT CGC CGA ATT ATC ATA ACC ACA AAT AAC AAA AAG AGT AGC AGA AGG GCC GAG
Triplet


TRBV7−7*ap01_C315T− Final 3 nucleotides as a triplet
Count
0
25
50
75
100
125
TTT TTC TTA TTG TCT TCC TCA TCG TAT TAC TAA TAG TGT TGC TGA TGG CTT CTC CTA CTG CCT CCC CCA CCG CAT CAC CAA CAG CGT CGC CGA CGG ATT ATC ATA ATG ACT ACC ACA ACG AAT AAC AAA AAG AGT AGC AGA AGG GTT GTC GTA GTG GCT GCC GCA GCG GAT GAC GAA GAG GGT GGC GGA GGG
Triplet

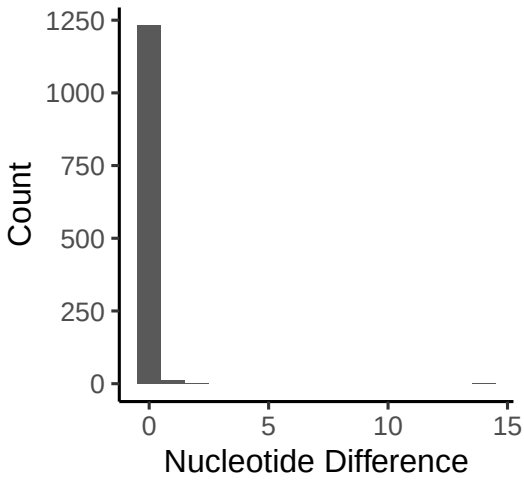
TRBV10−1*ap01

1858 sequences assigned
1823 (98.1%) exact matches, in which:
1777 unique CDR3
14 unique J



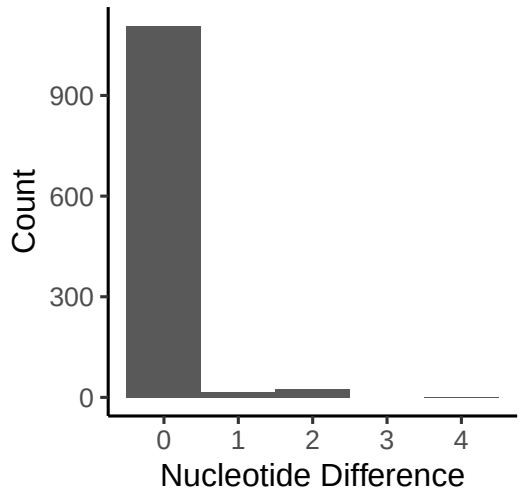
TRBV10−2*ap01

1247 sequences assigned
1232 (98.8%) exact matches, in which:
1209 unique CDR3
14 unique J



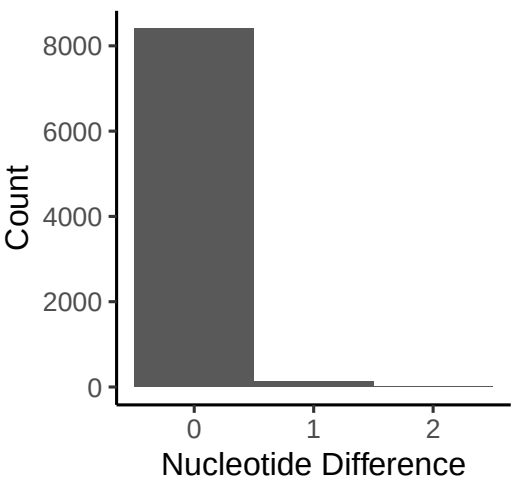
TRBV13*ap01

1149 sequences assigned
1108 (96.4%) exact matches, in which:
1089 unique CDR3
14 unique J



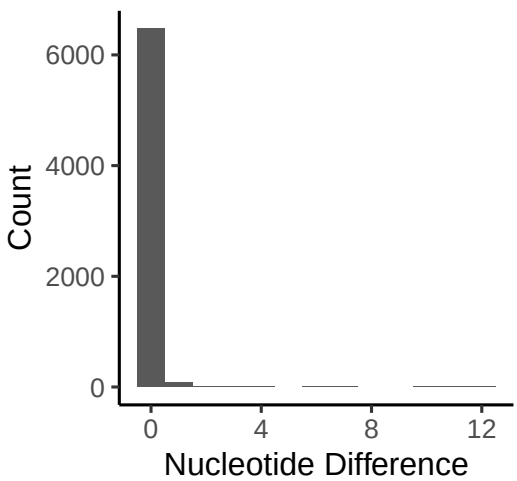
TRBV20−1*ap01

8526 sequences assigned
8401 (98.5%) exact matches, in which:
8310 unique CDR3
14 unique J



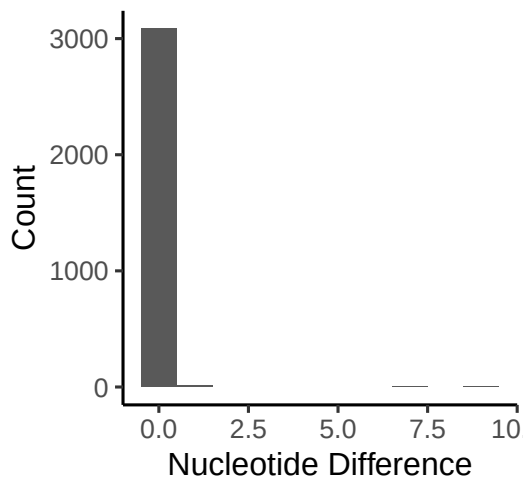
TRBV10−3*ap01

6562 sequences assigned
6473 (98.6%) exact matches, in which:
6364 unique CDR3
14 unique J



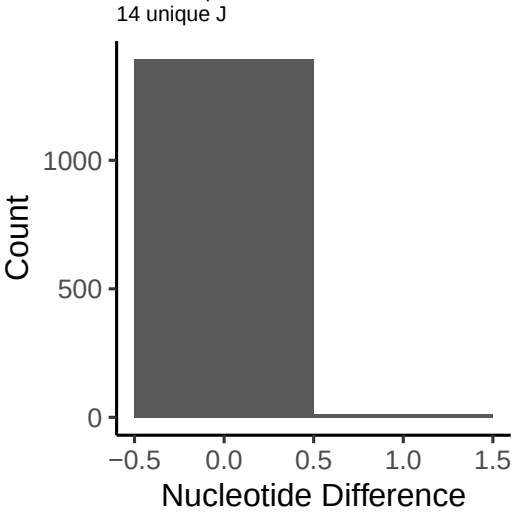
TRBV14*ap01

3104 sequences assigned
3085 (99.4%) exact matches, in which:
3058 unique CDR3
14 unique J



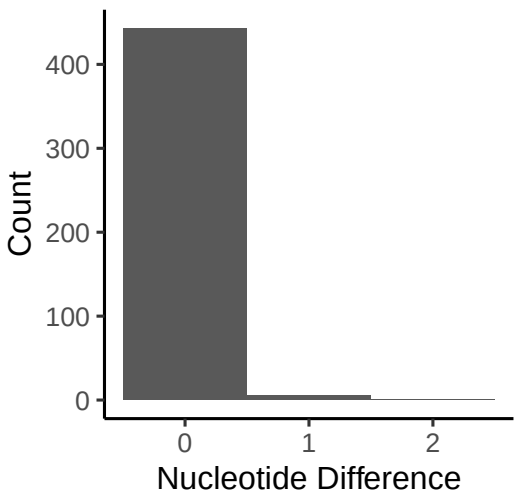
TRBV20−1*ap02

1407 sequences assigned
1394 (99.1%) exact matches, in which:
1379 unique CDR3
14 unique J



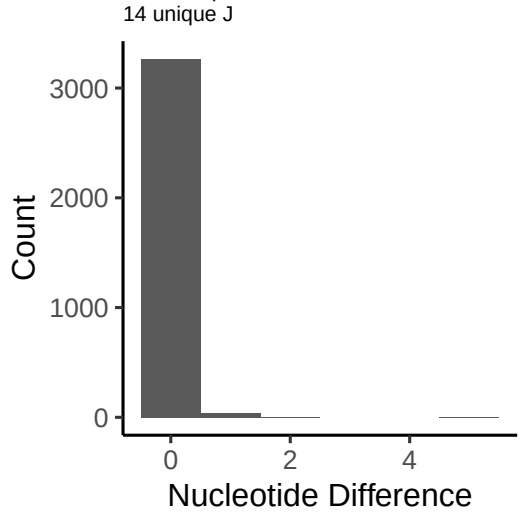
TRBV1*ap01

449 sequences assigned
443 (98.7%) exact matches, in which:
422 unique CDR3
14 unique J



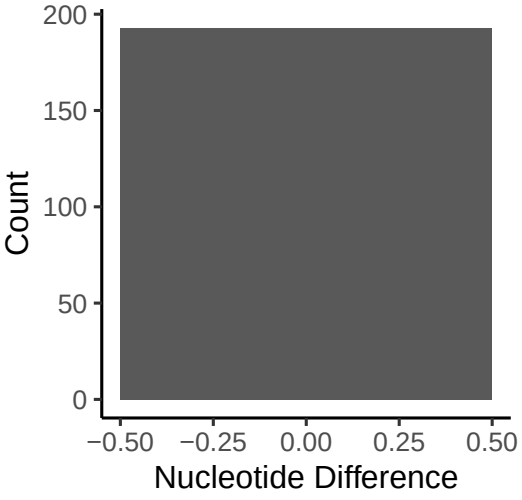
TRBV15*ap02

3303 sequences assigned
3264 (98.8%) exact matches, in which:
3195 unique CDR3
14 unique J



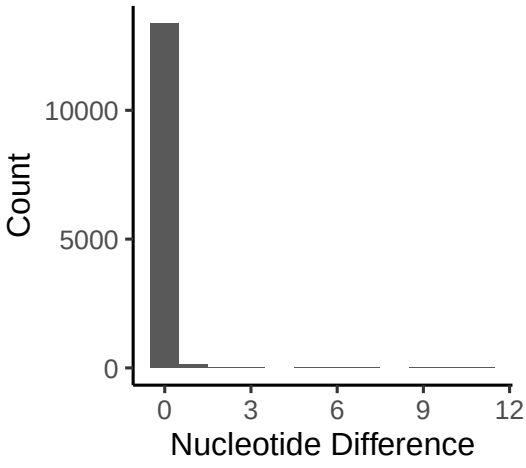
TRBV16*ap01

193 sequences assigned
193 (100%) exact matches, in which:
193 unique CDR3
13 unique J



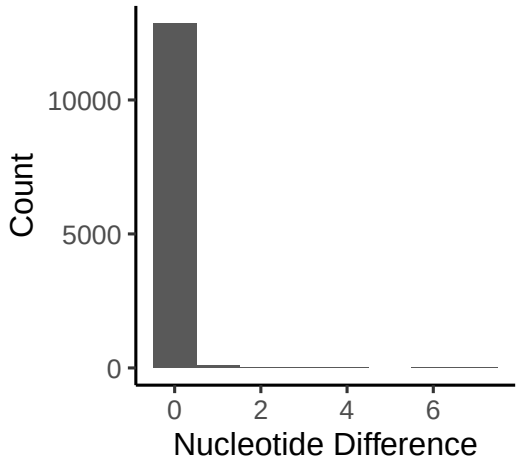
TRBV19*ap01

13522 sequences assigned
13383 (99%) exact matches, in which:
13282 unique CDR3
14 unique J



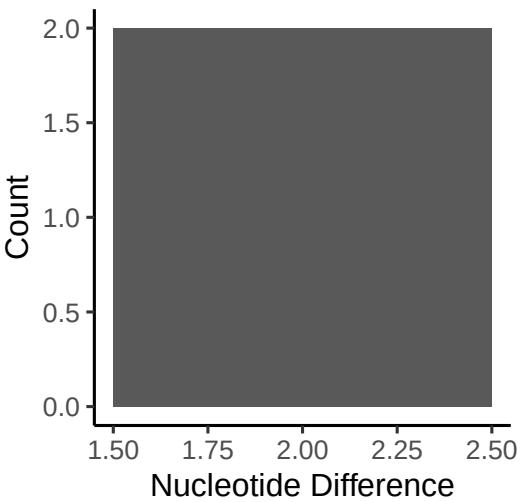
TRBV28*ap01

12968 sequences assigned
12866 (99.2%) exact matches, in which:
12771 unique CDR3
14 unique J



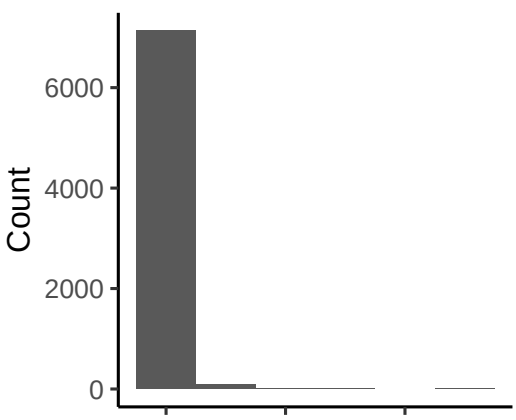
TRBV17*ap01

2 sequences assigned
No exact matches.



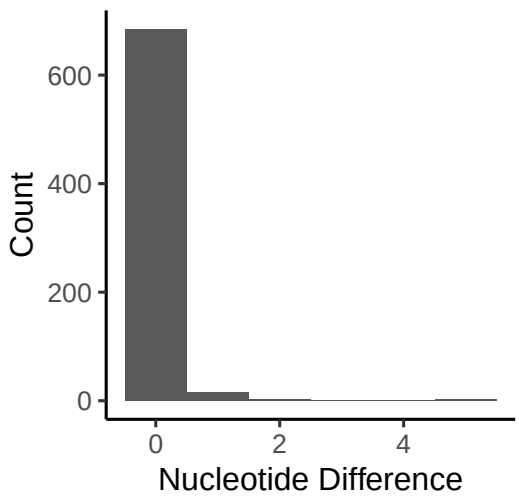
TRBV2*ap01

7225 sequences assigned
7133 (98.7%) exact matches, in which:
7020 unique CDR3
14 unique J



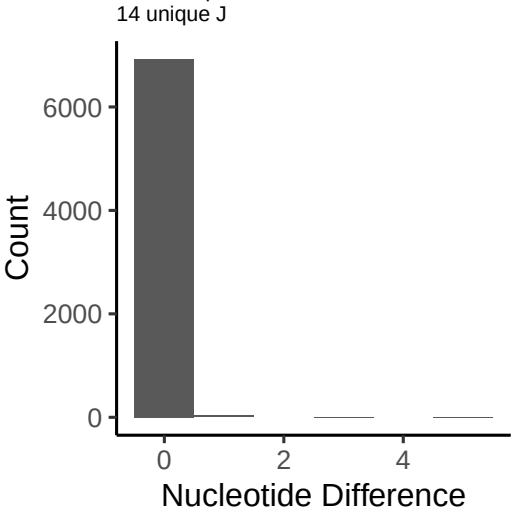
TRBV30*ap02

706 sequences assigned
685 (97%) exact matches, in which:
664 unique CDR3
14 unique J



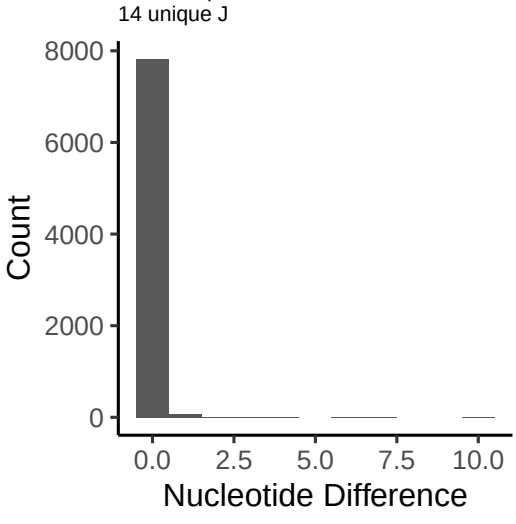
TRBV18*ap01

6962 sequences assigned
6926 (99.5%) exact matches, in which:
6876 unique CDR3
14 unique J



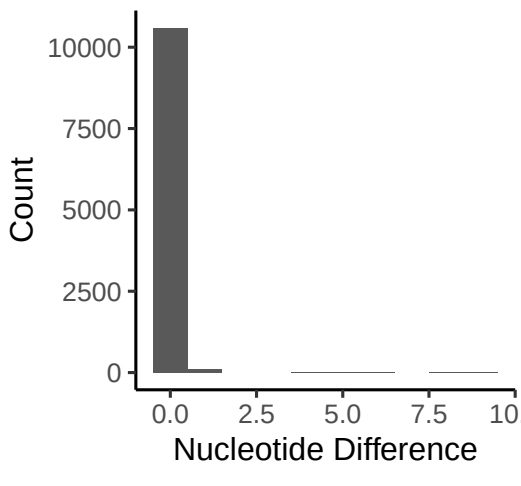
TRBV27*ap01

7906 sequences assigned
7820 (98.9%) exact matches, in which:
7749 unique CDR3
14 unique J



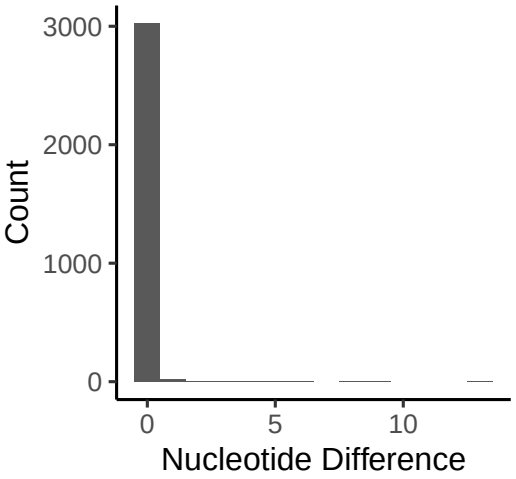
TRBV9*ap01

10719 sequences assigned
10597 (98.9%) exact matches, in which:
10492 unique CDR3
14 unique J



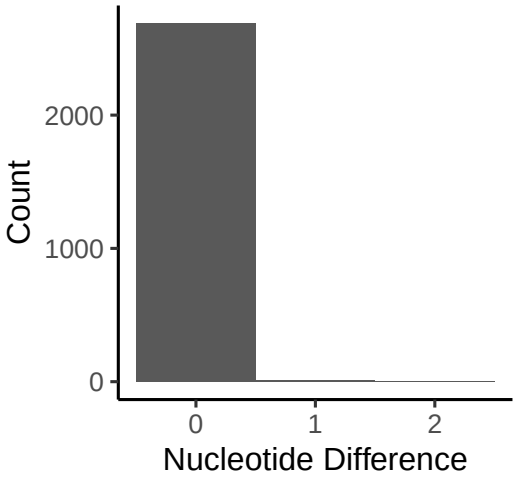
TRBV21−1*ap01

3069 sequences assigned
3024 (98.5%) exact matches, in which:
3003 unique CDR3
14 unique J



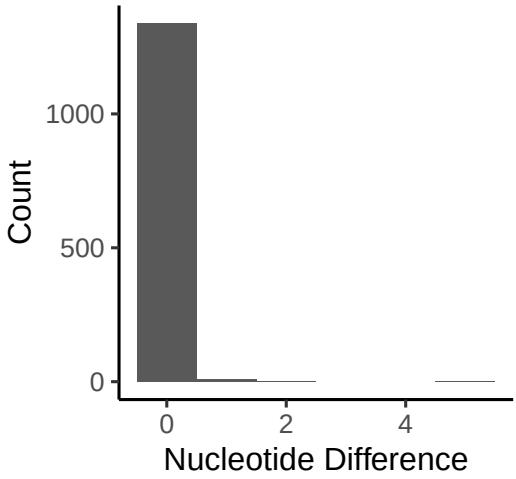
TRBV11−3*ap01

2703 sequences assigned
2688 (99.4%) exact matches, in which:
2650 unique CDR3
14 unique J



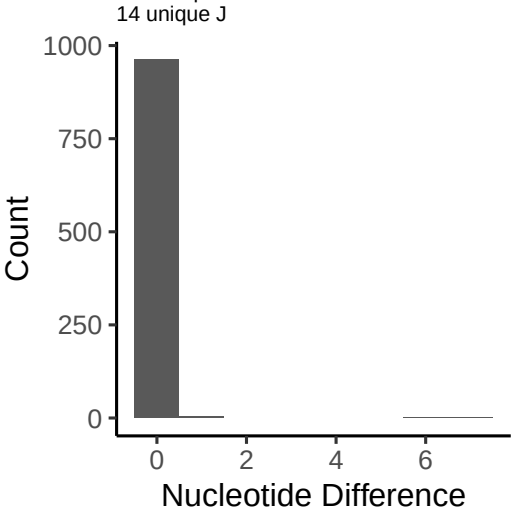
TRBV12−5*ap01

1351 sequences assigned
1338 (99%) exact matches, in which:
1314 unique CDR3
14 unique J



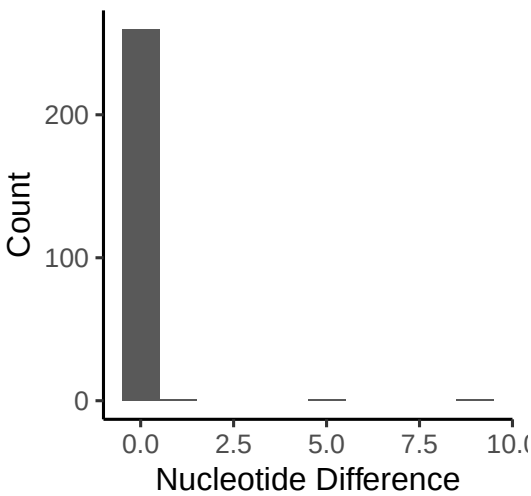
TRBV11−1*ap01

967 sequences assigned
962 (99.5%) exact matches, in which:
948 unique CDR3
14 unique J



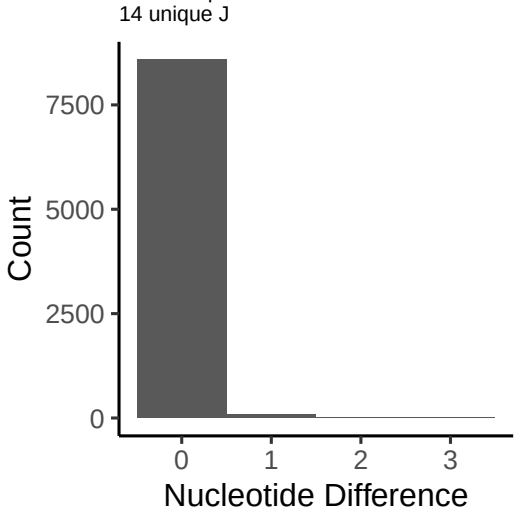
TRBV12−1*ap01

263 sequences assigned
260 (98.9%) exact matches, in which:
257 unique CDR3
14 unique J



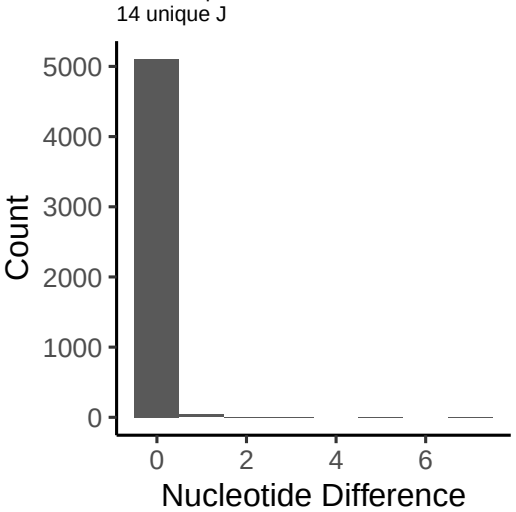
TRBV12−34*ap01

8672 sequences assigned
8582 (99%) exact matches, in which:
8465 unique CDR3
14 unique J



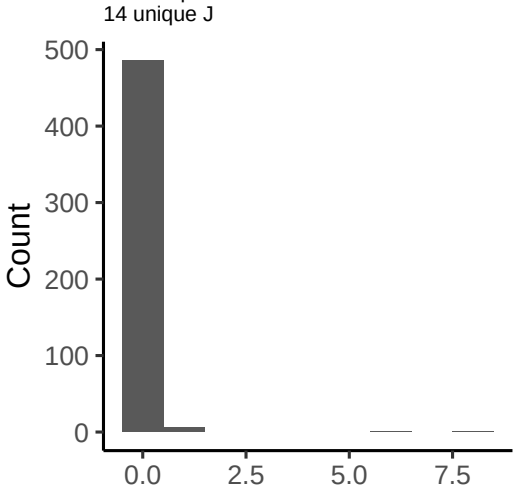
TRBV11−2*ap01

5149 sequences assigned
5105 (99.1%) exact matches, in which:
5036 unique CDR3
14 unique J



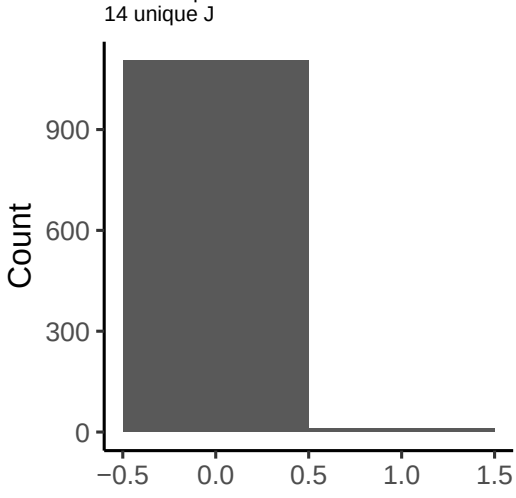
TRBV12−2*ap01

494 sequences assigned
486 (98.4%) exact matches, in which:
476 unique CDR3
14 unique J



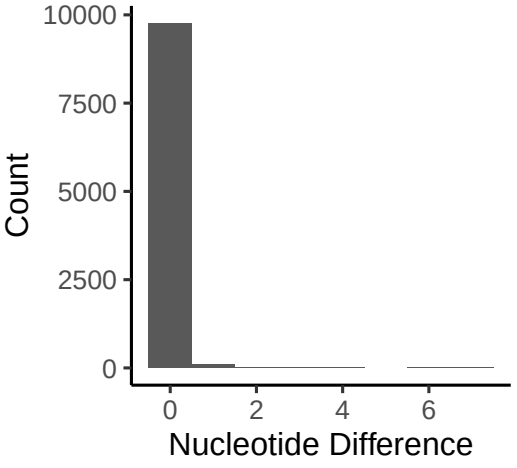
TRBV23−1*ap01

1117 sequences assigned
1106 (99%) exact matches, in which:
1096 unique CDR3
14 unique J



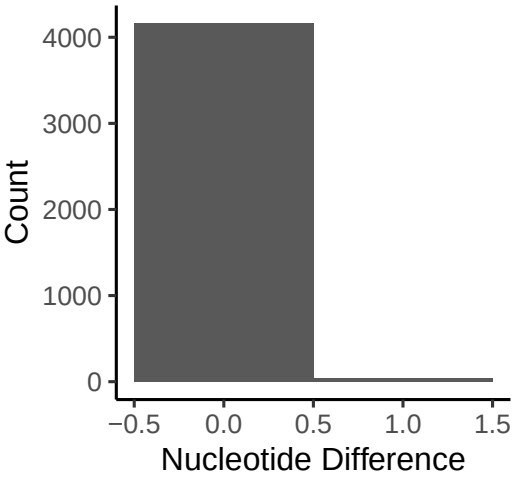
TRBV3−12*ap01

9879 sequences assigned
9765 (98.8%) exact matches, in which:
9644 unique CDR3
14 unique J



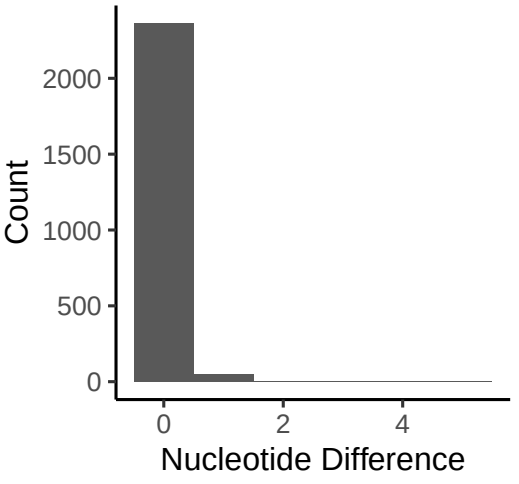
TRBV4−2*ap01

4203 sequences assigned
4161 (99%) exact matches, in which:
4110 unique CDR3
14 unique J



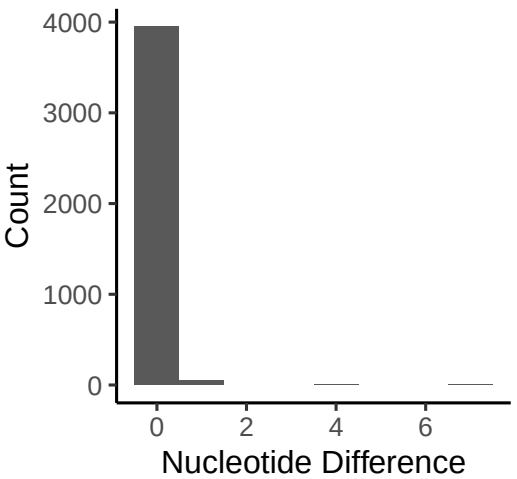
TRBV25−1*ap01

2418 sequences assigned
2362 (97.7%) exact matches, in which:
2321 unique CDR3
14 unique J



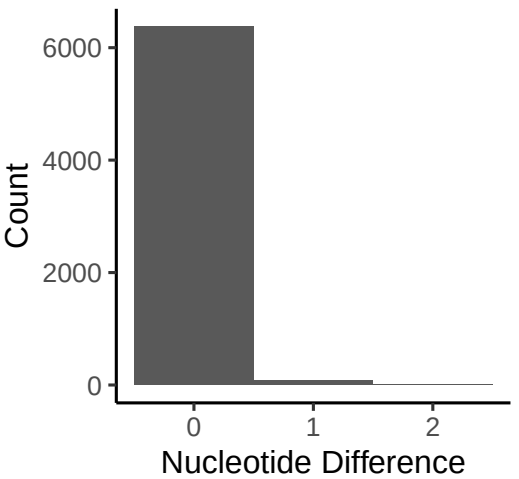
TRBV4−1*ap01

3996 sequences assigned
3949 (98.8%) exact matches, in which:
3903 unique CDR3
14 unique J



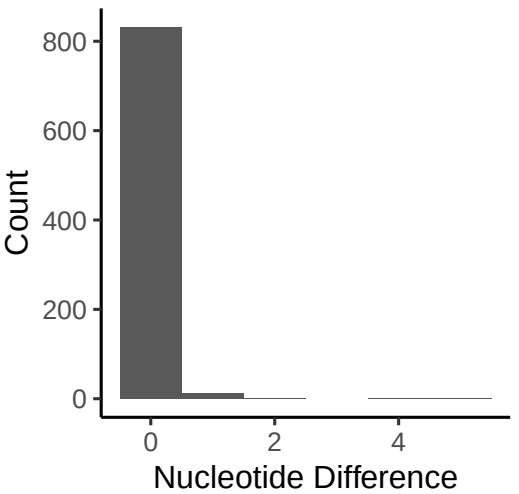
TRBV4−3*ap01

6457 sequences assigned
6373 (98.7%) exact matches, in which:
6288 unique CDR3
14 unique J



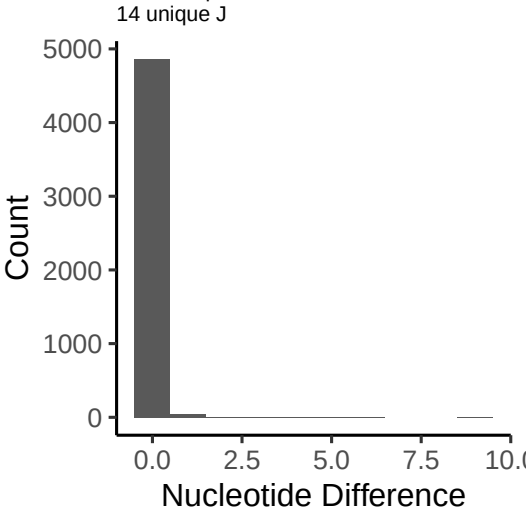
TRBV5−3*ap01

848 sequences assigned
832 (98.1%) exact matches, in which:
816 unique CDR3
14 unique J



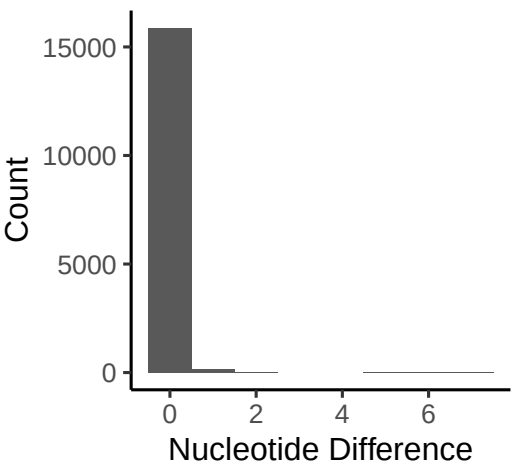
TRBV24−1*ap01

4920 sequences assigned
4862 (98.8%) exact matches, in which:
4799 unique CDR3
14 unique J



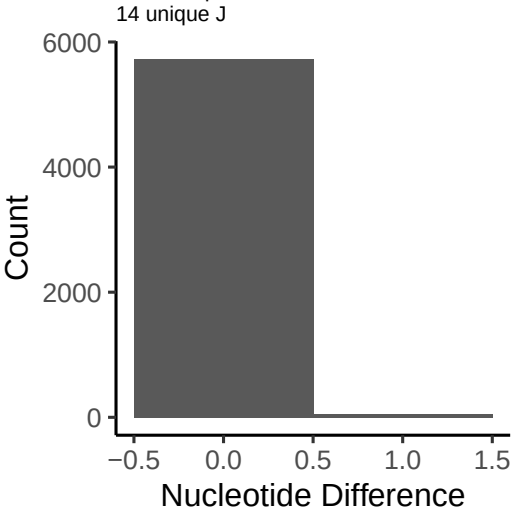
TRBV5−1*ap01

16060 sequences assigned
15882 (98.9%) exact matches, in which:
15573 unique CDR3
14 unique J



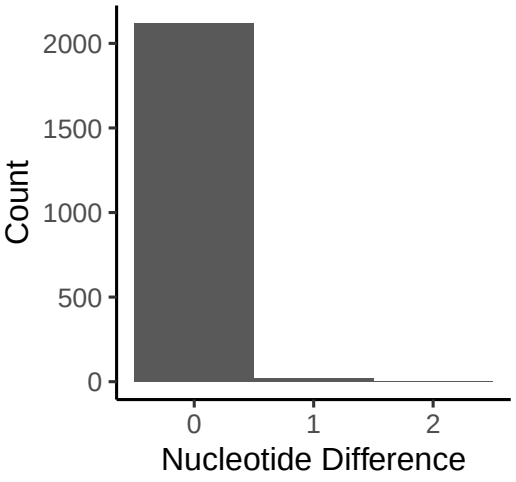
TRBV5−4*ap01

5780 sequences assigned
5727 (99.1%) exact matches, in which:
5652 unique CDR3
14 unique J



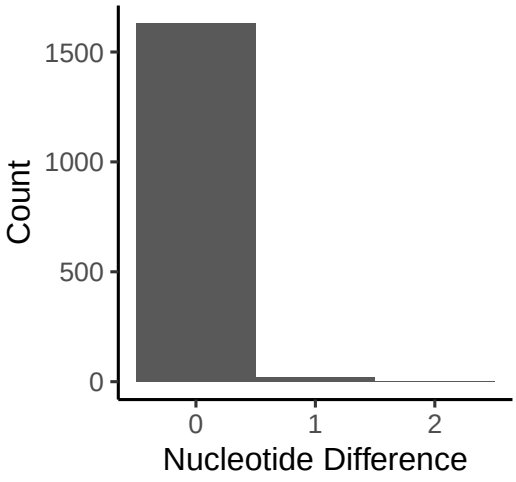
TRBV5−5*ap01

2138 sequences assigned
2118 (99.1%) exact matches, in which:
2101 unique CDR3
14 unique J



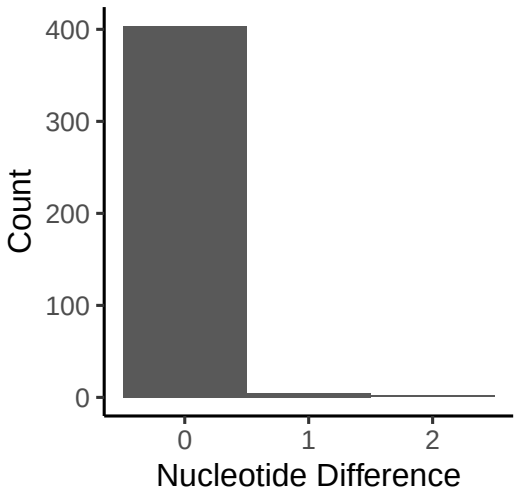
TRBV5−8*ap01

1650 sequences assigned
1630 (98.8%) exact matches, in which:
1612 unique CDR3
14 unique J



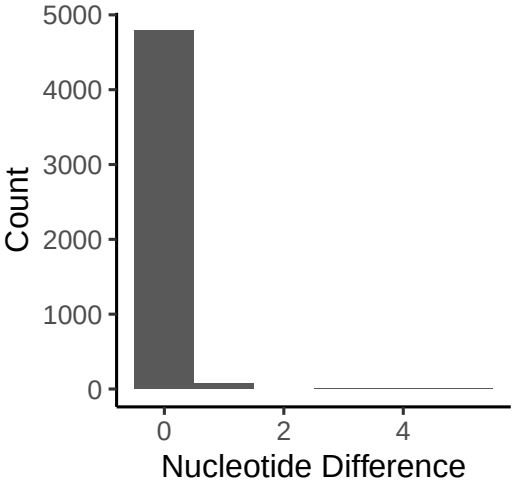
TRBV6−7*ap01

411 sequences assigned
404 (98.3%) exact matches, in which:
395 unique CDR3
14 unique J



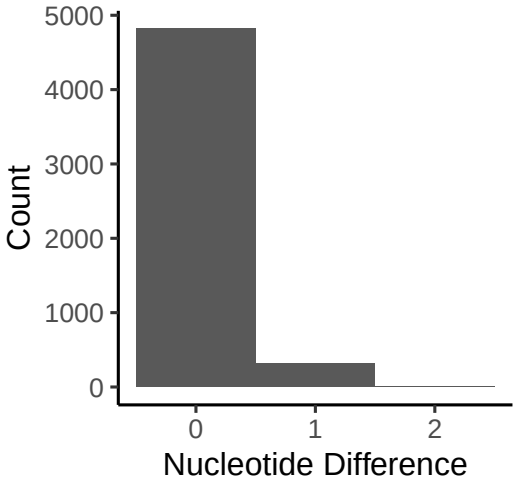
TRBV5−6*ap01

4862 sequences assigned
4788 (98.5%) exact matches, in which:
4653 unique CDR3
14 unique J



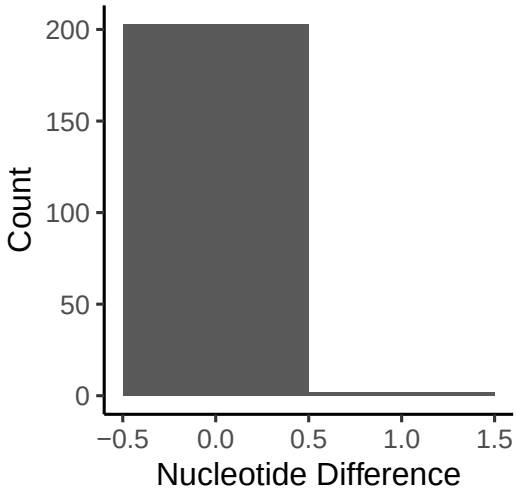
TRBV6−1*ap01

5133 sequences assigned
4819 (93.9%) exact matches, in which:
4717 unique CDR3
14 unique J



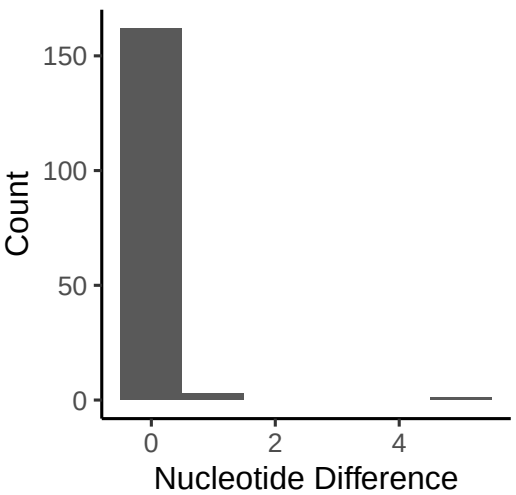
TRBV6−8*ap01

205 sequences assigned
203 (99%) exact matches, in which:
197 unique CDR3
14 unique J



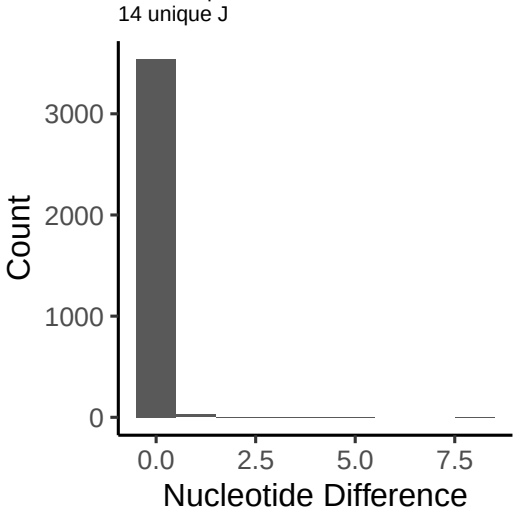
TRBV5−7*ap01

166 sequences assigned
162 (97.6%) exact matches, in which:
156 unique CDR3
14 unique J



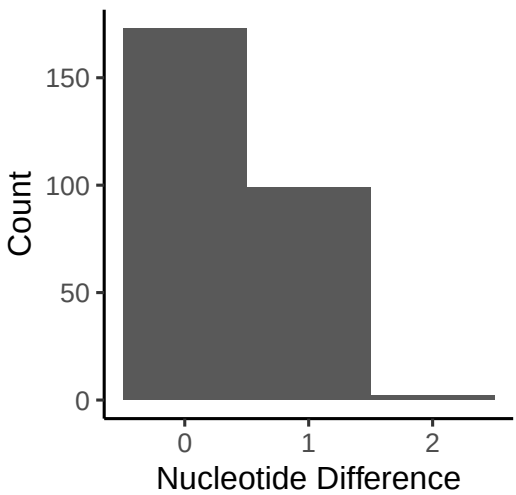
TRBV6−4*ap01

3581 sequences assigned
3541 (98.9%) exact matches, in which:
3501 unique CDR3
14 unique J



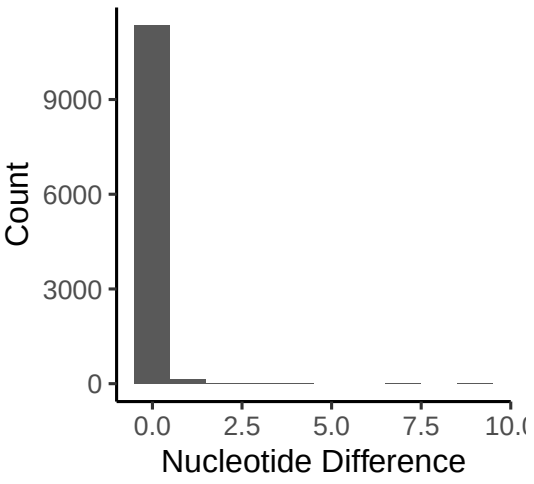
TRBV6−9*ap01

274 sequences assigned
173 (63.1%) exact matches, in which:
167 unique CDR3
14 unique J



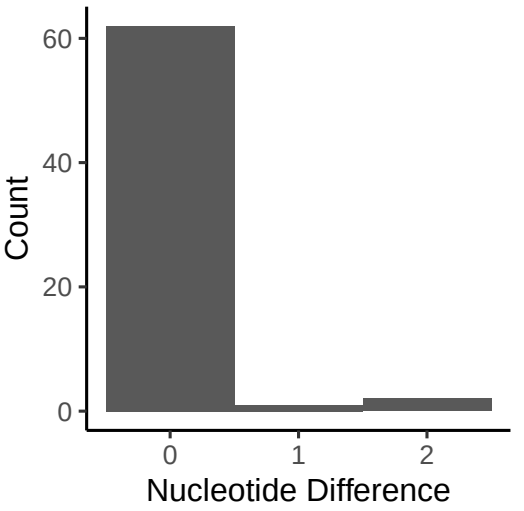
TRBV6−23*ap01

11510 sequences assigned
11347 (98.6%) exact matches, in which:
10993 unique CDR3
15 unique J



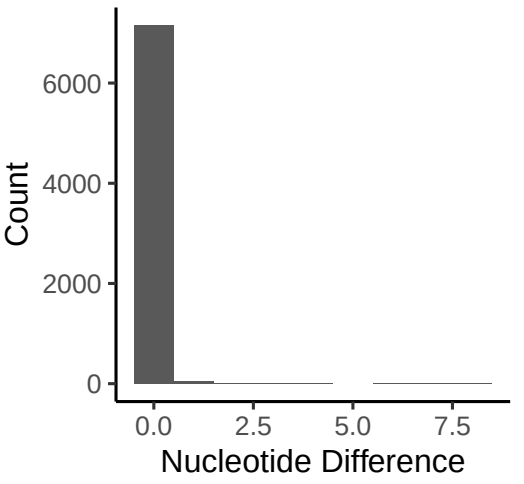
TRBV7−1*ap01_G291C_T

65 sequences assigned
62 (95.4%) exact matches, in which:
62 unique CDR3
13 unique J



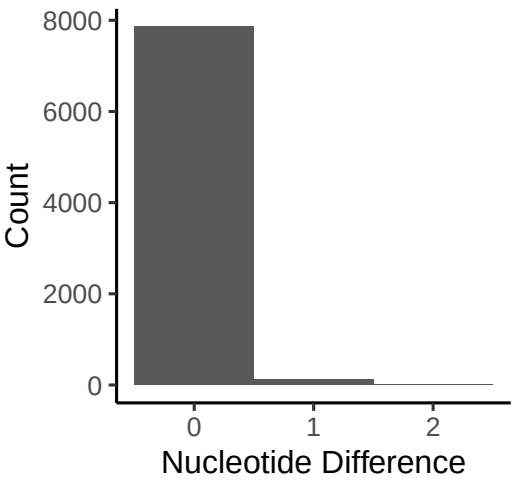
TRBV7−3*ap01

7218 sequences assigned
7151 (99.1%) exact matches, in which:
7076 unique CDR3
15 unique J



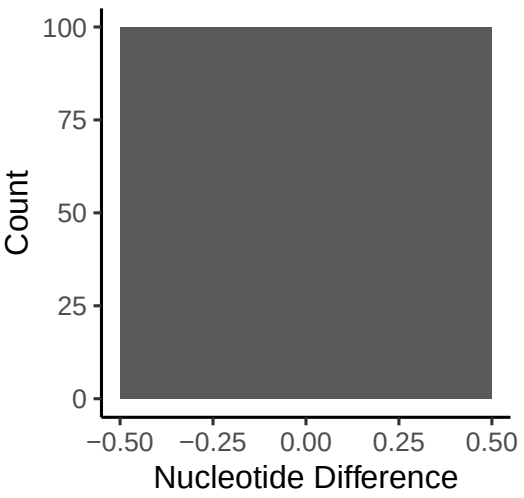
TRBV6−56*ap01

7975 sequences assigned
7859 (98.5%) exact matches, in which:
7704 unique CDR3
14 unique J



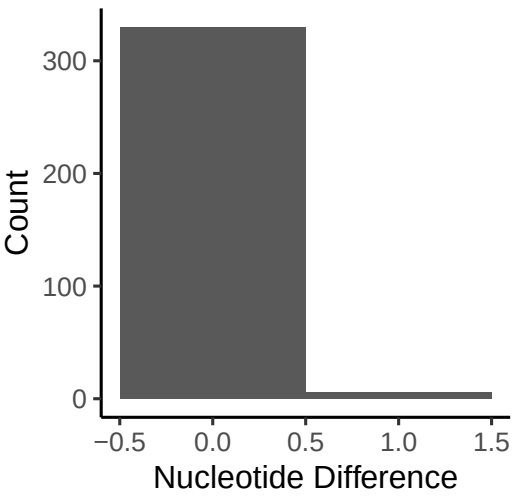
TRBV7−1*ap01_G291C_

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



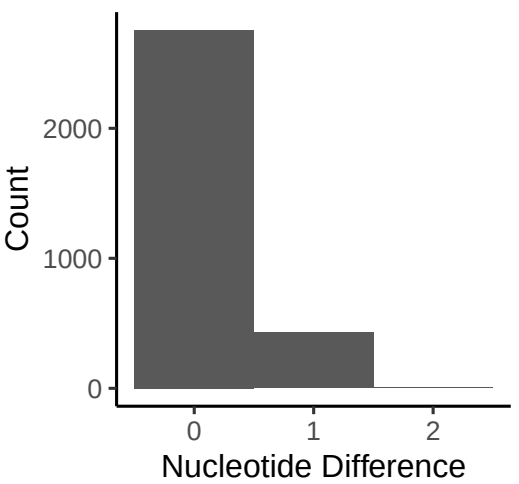
TRBV7−4*ap01

336 sequences assigned
330 (98.2%) exact matches, in which:
320 unique CDR3
14 unique J



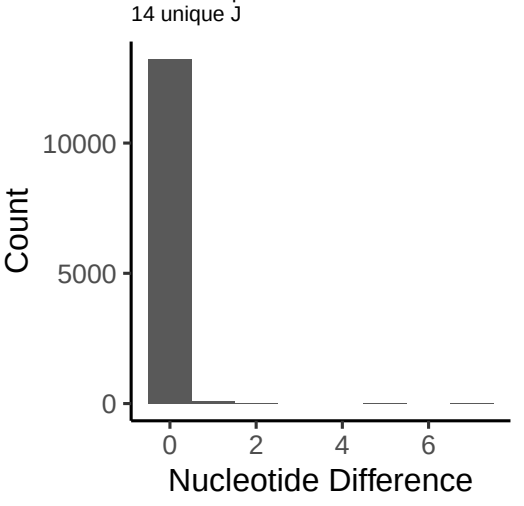
TRBV6−56*ap02

3191 sequences assigned
2756 (86.4%) exact matches, in which:
2688 unique CDR3
14 unique J



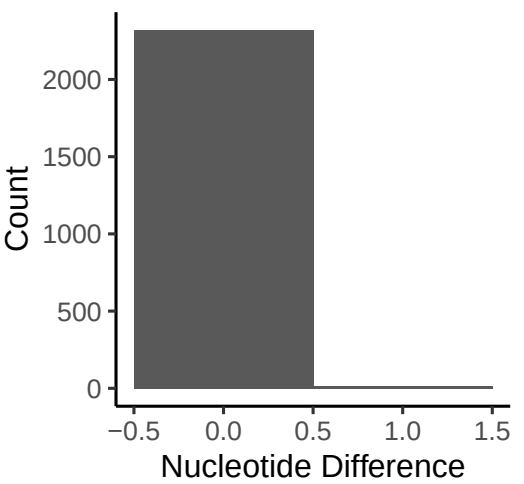
TRBV7−2*ap01

13319 sequences assigned
13235 (99.4%) exact matches, in which:
13115 unique CDR3
14 unique J



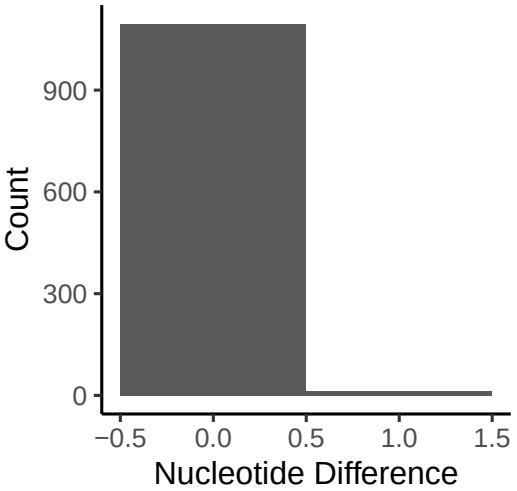
TRBV7−6*ap01

2337 sequences assigned
2320 (99.3%) exact matches, in which:
2303 unique CDR3
14 unique J



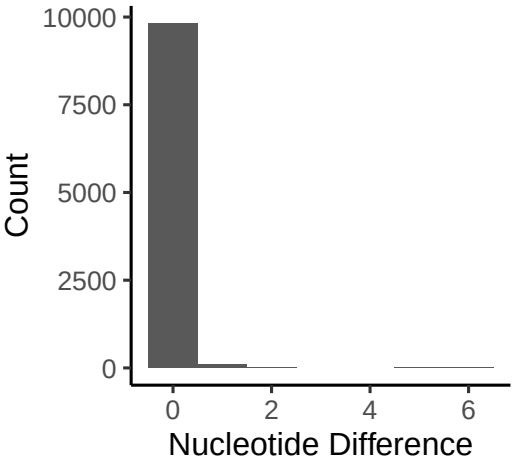
TRBV7−7*ap01_C315T

1108 sequences assigned
1096 (98.9%) exact matches, in which:
1082 unique CDR3
14 unique J



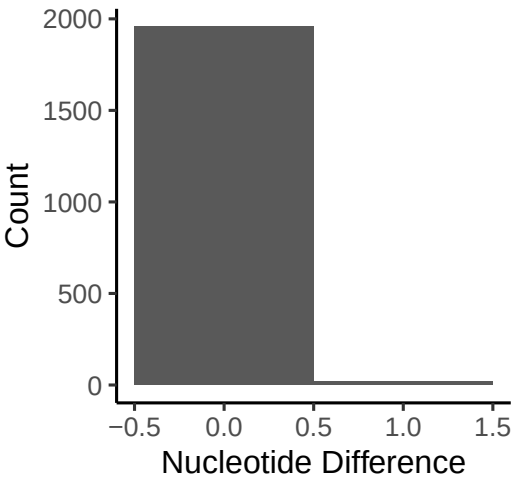
TRBV7−9*ap01

9936 sequences assigned
9826 (98.9%) exact matches, in which:
9700 unique CDR3
14 unique J



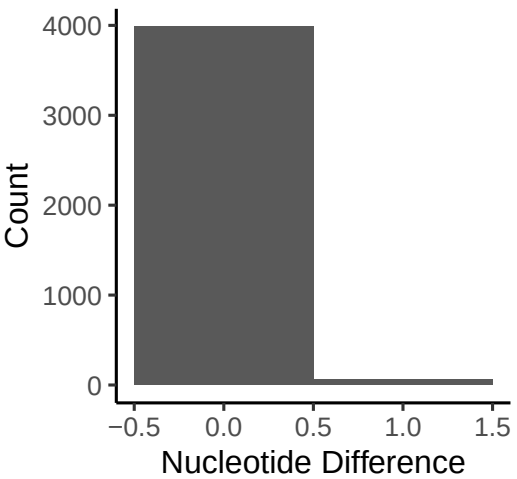
TRBV7−8*ap01

1975 sequences assigned
1957 (99.1%) exact matches, in which:
1924 unique CDR3
14 unique J



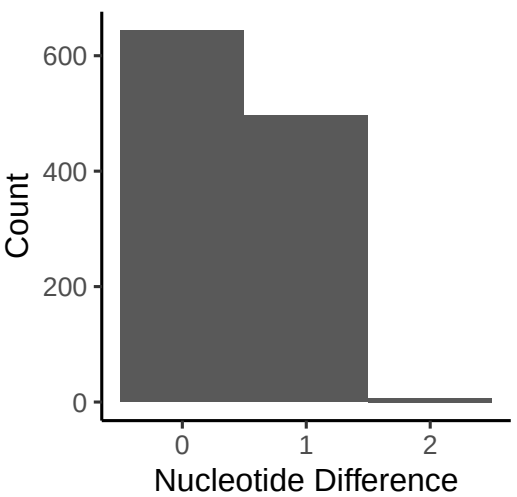
TRBV29−1*ap01

4047 sequences assigned
3985 (98.5%) exact matches, in which:
3903 unique CDR3
14 unique J



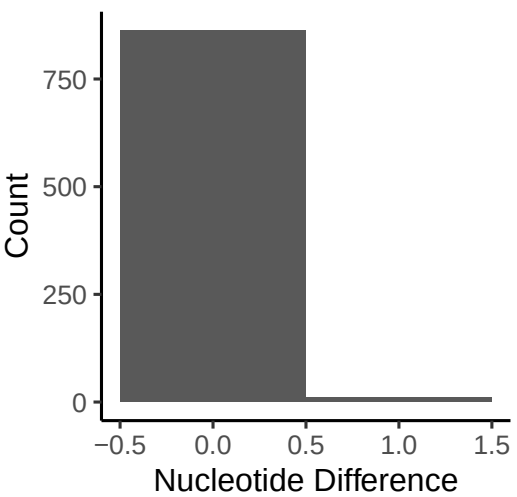
TRBV7−8*ap03

1147 sequences assigned
644 (56.1%) exact matches, in which:
636 unique CDR3
14 unique J

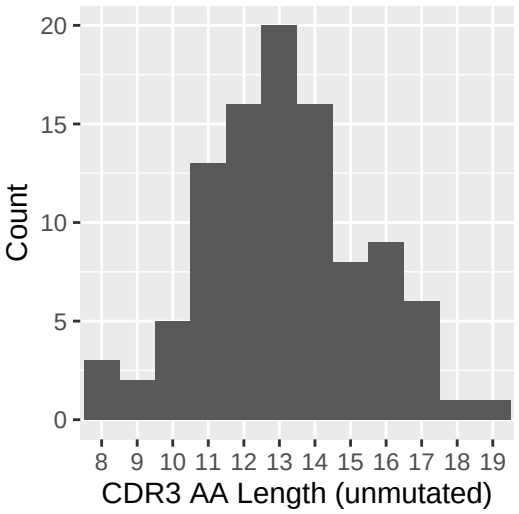


TRBV29−1*ap02

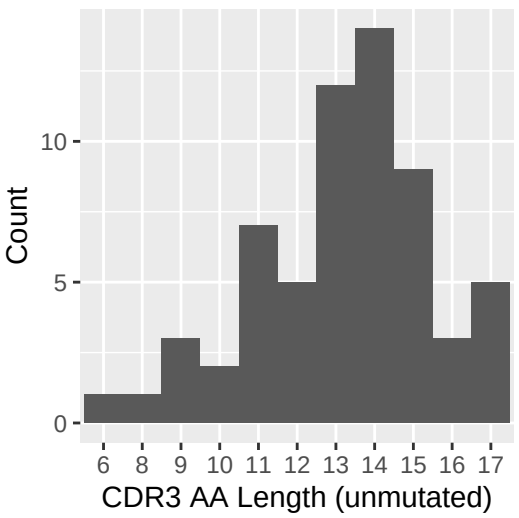
873 sequences assigned
863 (98.9%) exact matches, in which:
847 unique CDR3
14 unique J



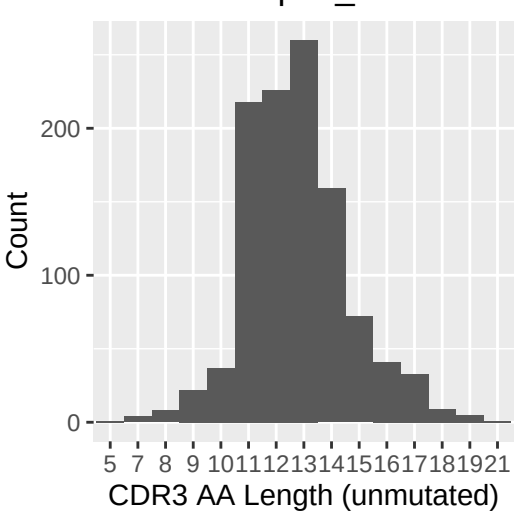
TRBV7−1*ap01_G291C_T296C_C314T

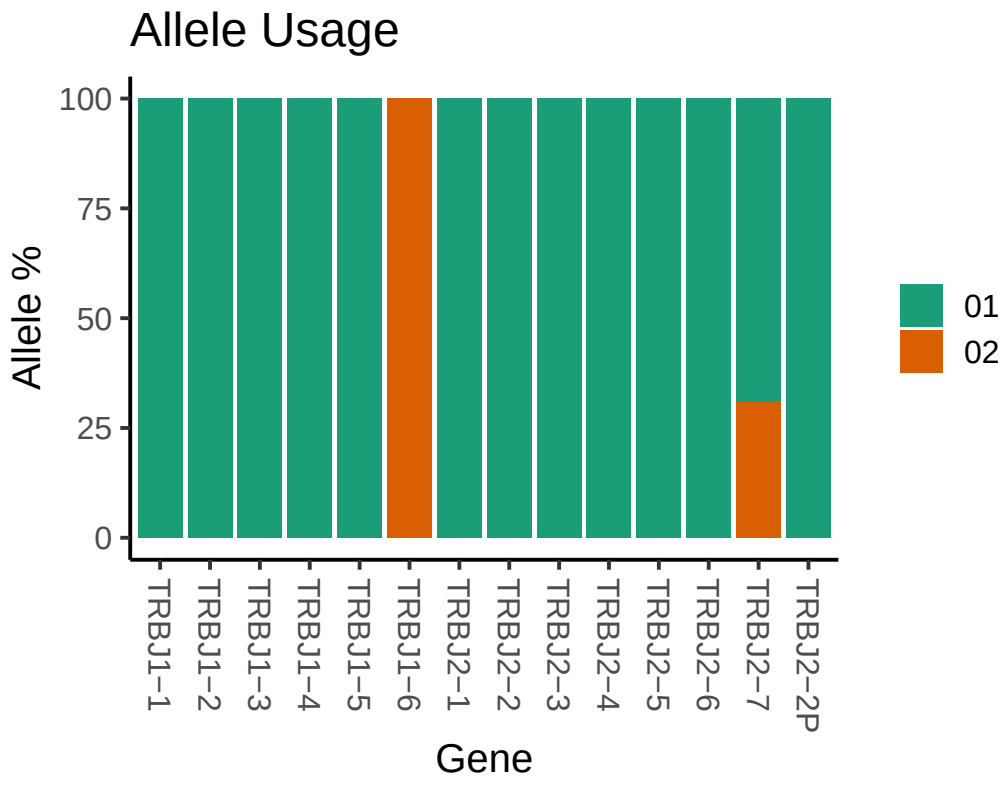


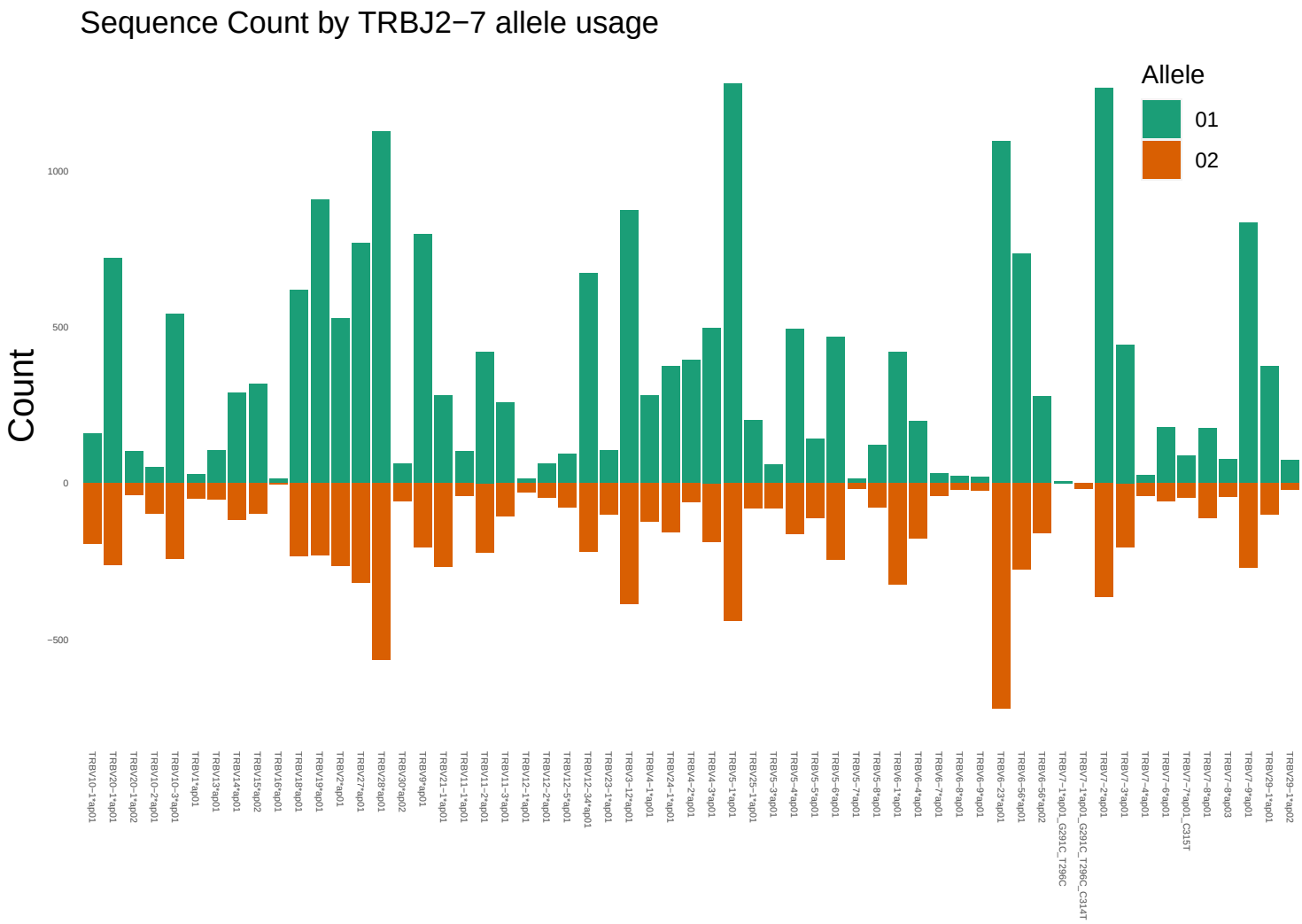
TRBV7−1*ap01_G291C_T296C



TRBV7−7*ap01_C315T




Allele Usage
Allele %
100
75
50
25
0
TRBJ1−1
TRBJ1−2
TRBJ1−3
TRBJ1−4
TRBJ1−5
TRBJ1−6
TRBJ2−1
TRBJ2−2
TRBJ2−3
TRBJ2−4
TRBJ2−5
TRBJ2−6
TRBJ2−7
TRBJ2−2P
Gene
01
02


Sequence Count by TRBJ2−7 allele usage
Allele
01
02
Count
1000
500
0
−500
TRBV10-1*ap01
TRBV20-1*ap01
TRBV20-1*ap02
TRBV10-2*ap01
TRBV10-3*ap01
TRBV1*ap01
TRBV13*ap01
TRBV14*ap01
TRBV15*ap02
TRBV16*ap01
TRBV18*ap01
TRBV19*ap01
TRBV2*ap01
TRBV27*ap01
TRBV28*ap01
TRBV30*ap02
TRBV9*ap01
TRBV21-1*ap01
TRBV11-1*ap01
TRBV11-2*ap01
TRBV11-3*ap01
TRBV12-1*ap01
TRBV12-2*ap01
TRBV12-5*ap01
TRBV12-3/4*ap01
TRBV23-1*ap01
TRBV3-1/2*ap01
TRBV4-1*ap01
TRBV24-1*ap01
TRBV4-2*ap01
TRBV4-3*ap01
TRBV5-1*ap01
TRBV25-1*ap01
TRBV5-3*ap01
TRBV5-4*ap01
TRBV5-5*ap01
TRBV5-6*ap01
TRBV5-7*ap01
TRBV5-8*ap01
TRBV6-1*ap01
TRBV6-4*ap01
TRBV6-7*ap01
TRBV6-8*ap01
TRBV6-9*ap01
TRBV6-2/3*ap01
TRBV6-5/6*ap01
TRBV6-5/6*ap02
TRBV7-1*ap01_G291C_T298C_C314T
TRBV7-1*ap01_G291C_T298C
TRBV7-2*ap01
TRBV7-3*ap01
TRBV7-4*ap01
TRBV7-6*ap01
TRBV7-7*ap01_C315T
TRBV7-8*ap01
TRBV7-8*ap03
TRBV7-9*ap01
TRBV29-1*ap01
TRBV29-1*ap02

Warning − no inferred sequences found.

Warning − no inferred sequences found.

Warning − no inferred sequences found.