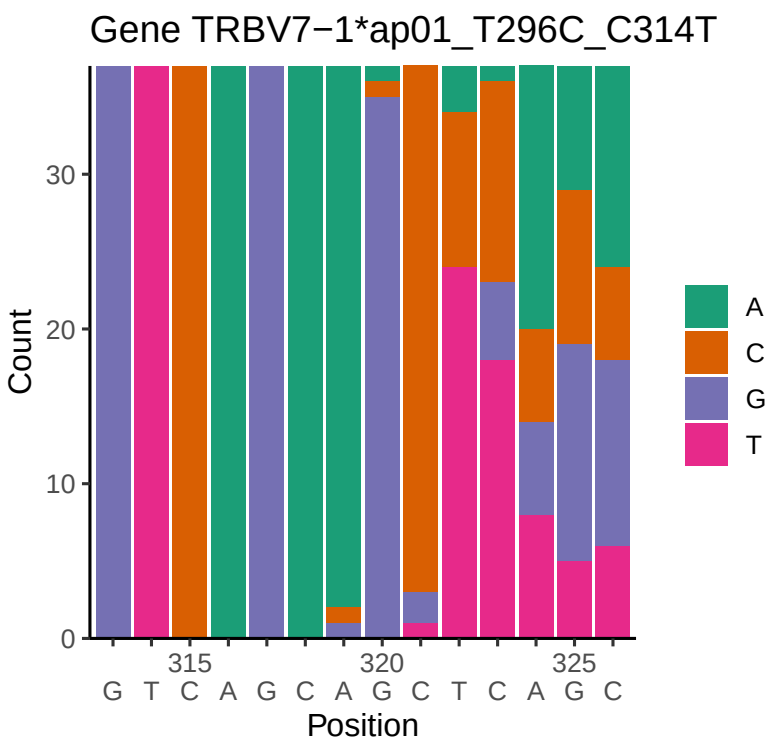
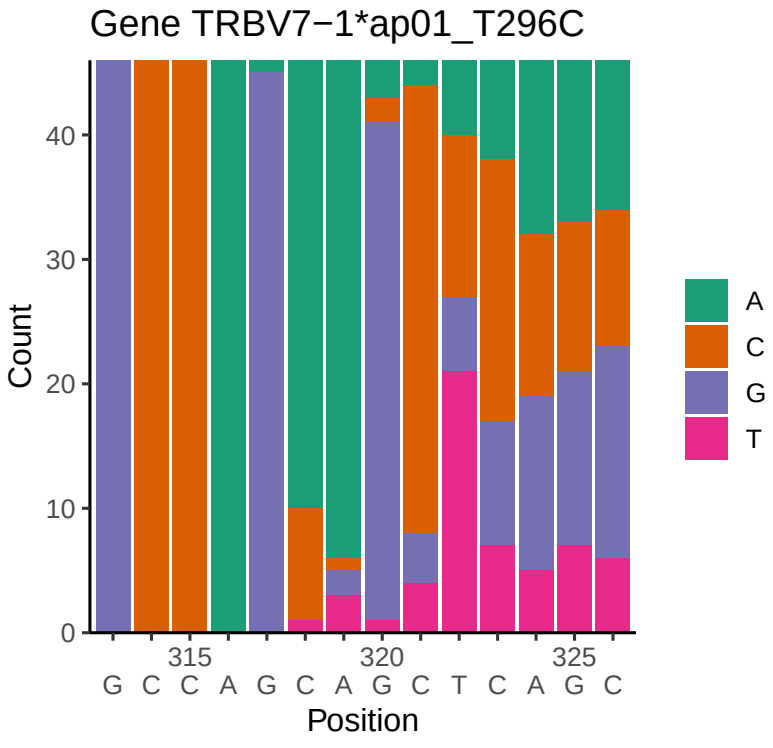
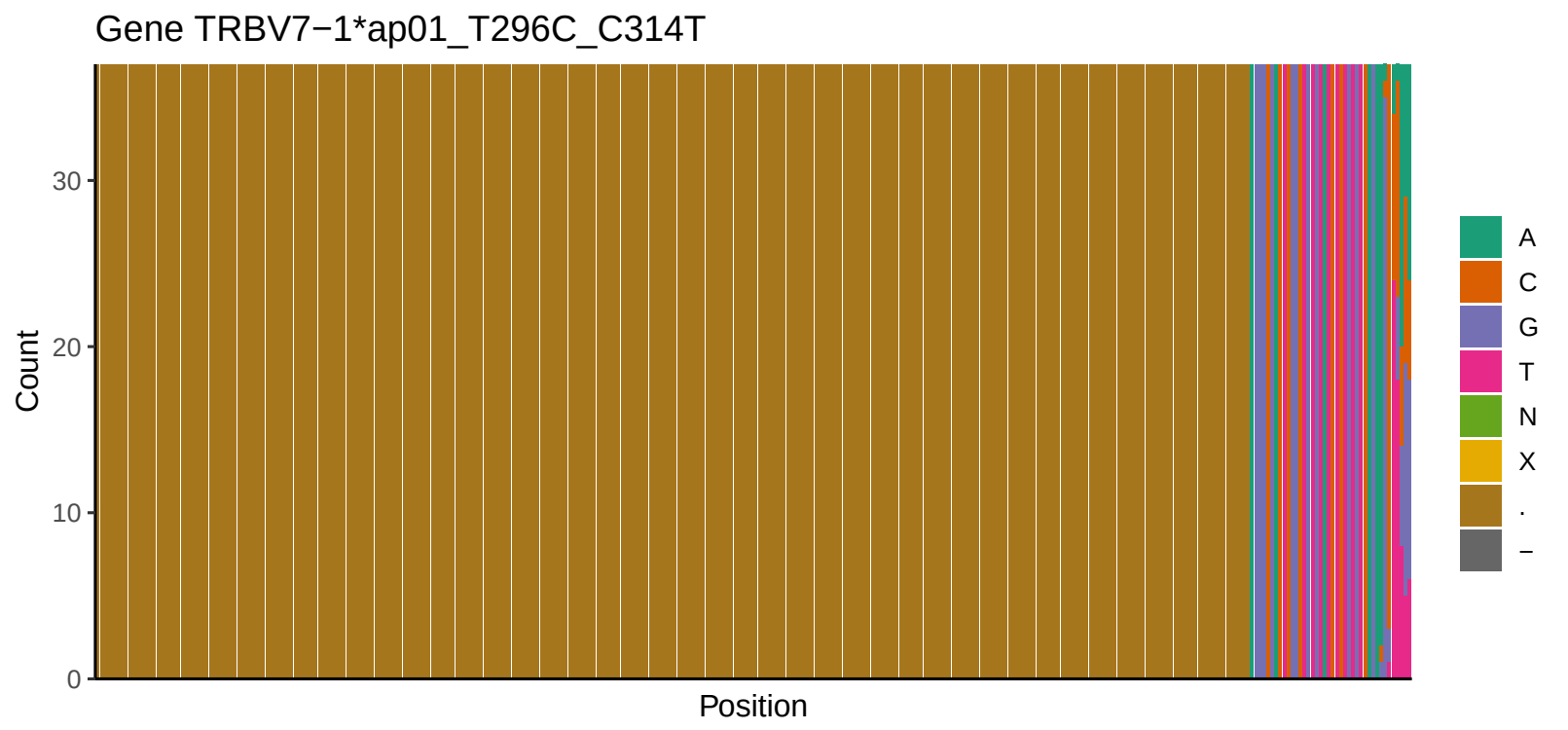
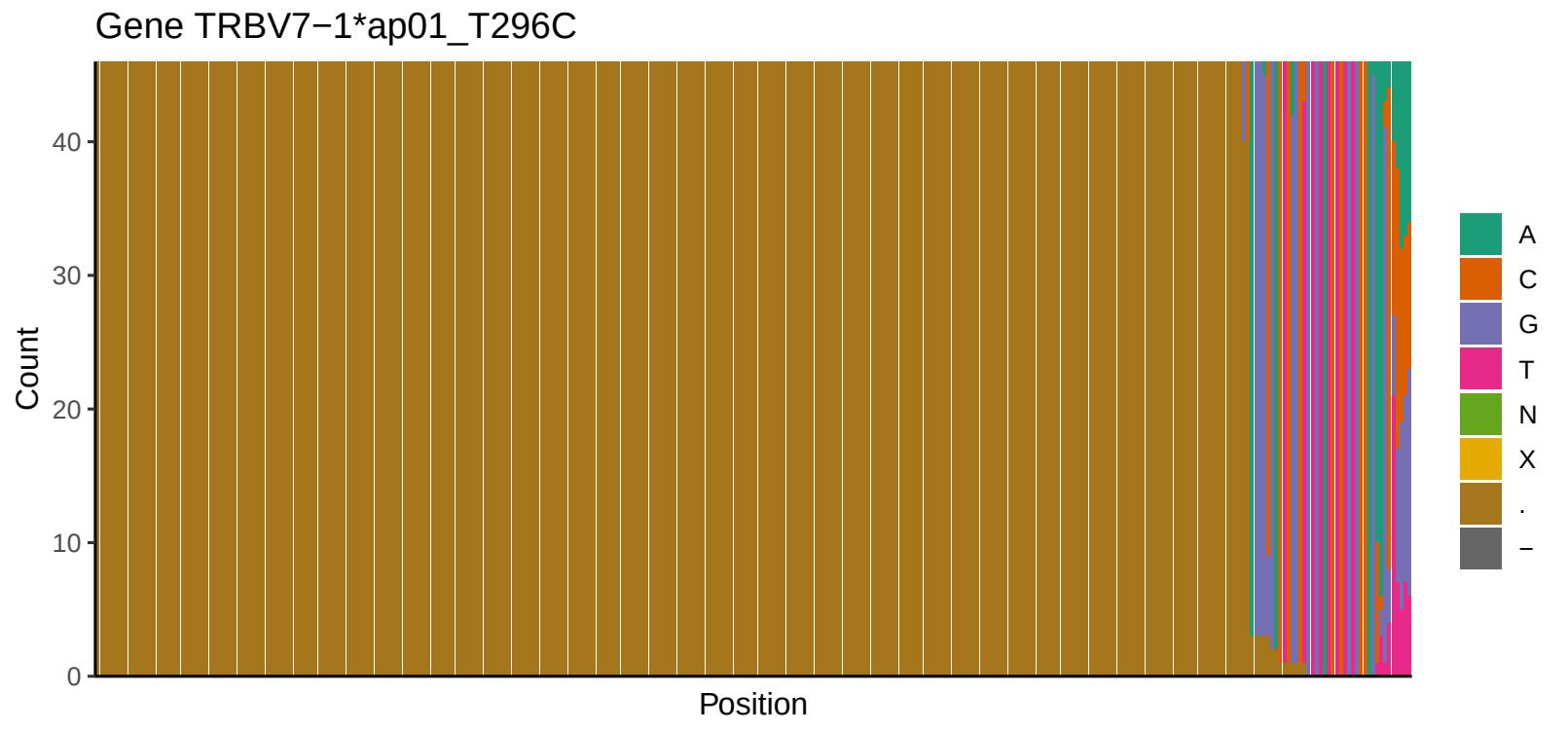
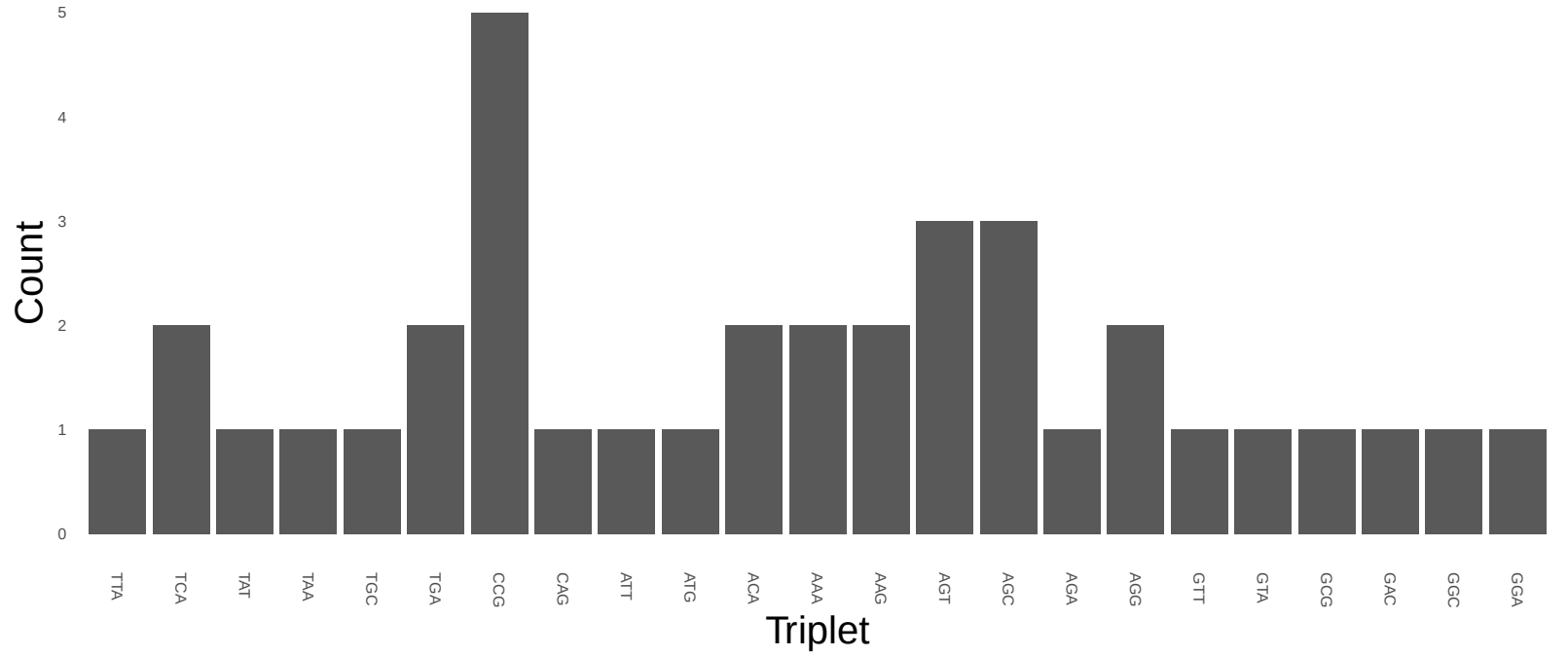

Gene TRBV7−1*ap01_T296C_C314T
Count
0
10
20
30
315
320
325
G T C A G C A G C T C A G C
Position
A
C
G
T


Gene TRBV7−1*ap01_T296C
Count
0
10
20
30
40
315
320
325
G C C A G C A G C T C A G C
Position
A
C
G
T

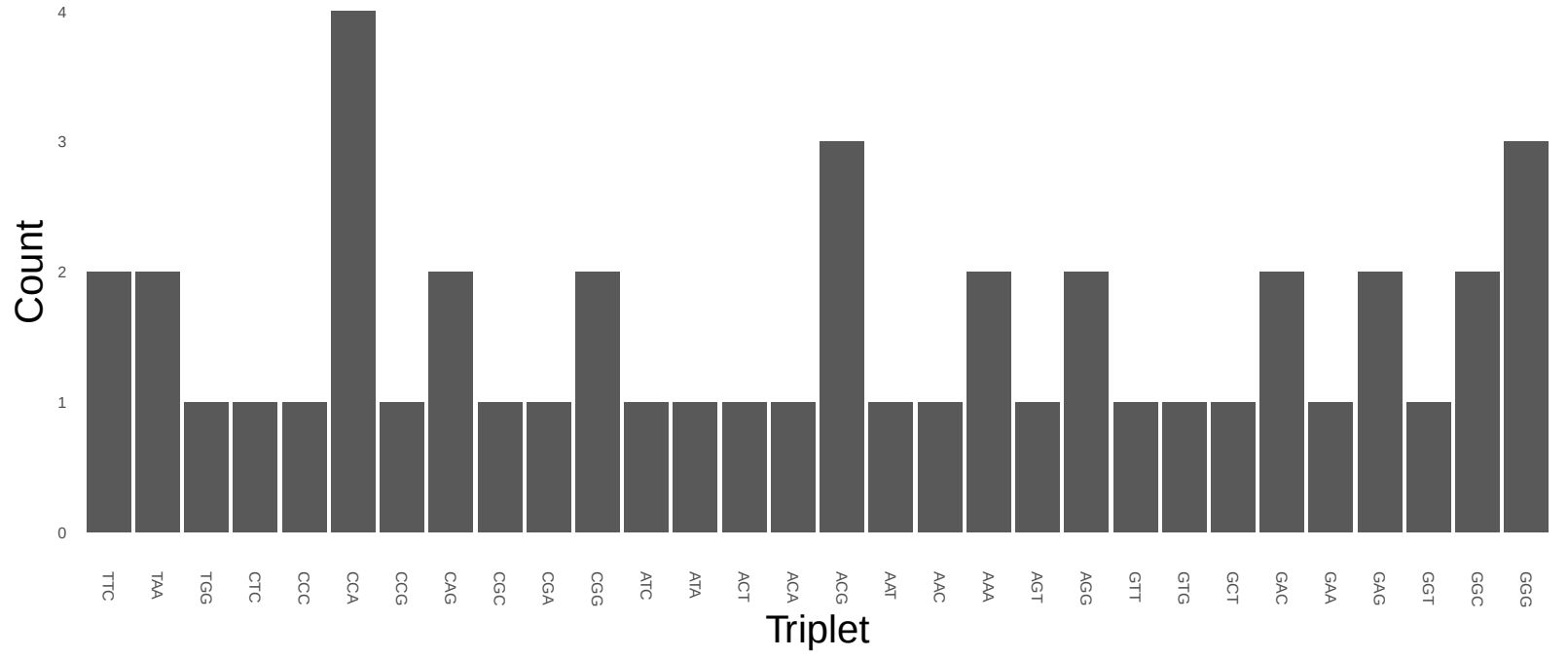

Gene TRBV7−1*ap01_T296C_C314T
Count
0
10
20
30
Position
A
C
G
T
N
X
.
–

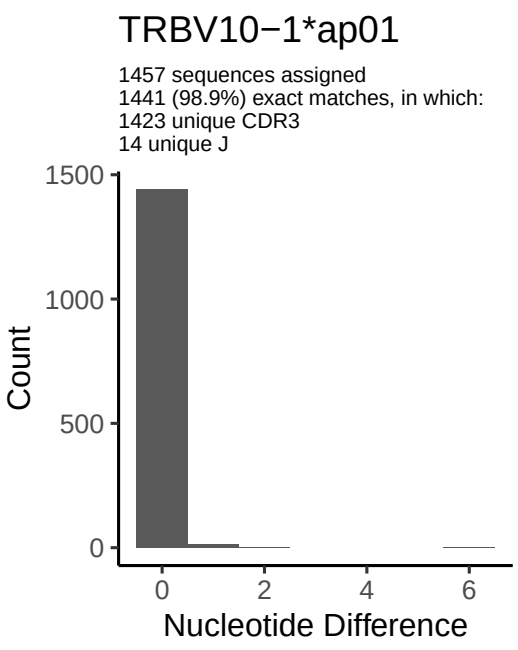

Gene TRBV7−1*ap01_T296C
Count
0
10
20
30
40
Position
A
C
G
T
N
X
.
–

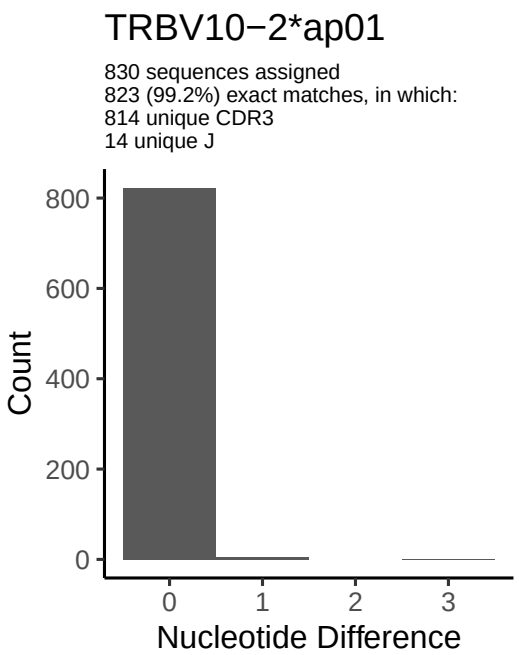
TRBV7−1*ap01_T296C_C314T− Final 3 nucleotides as a triplet

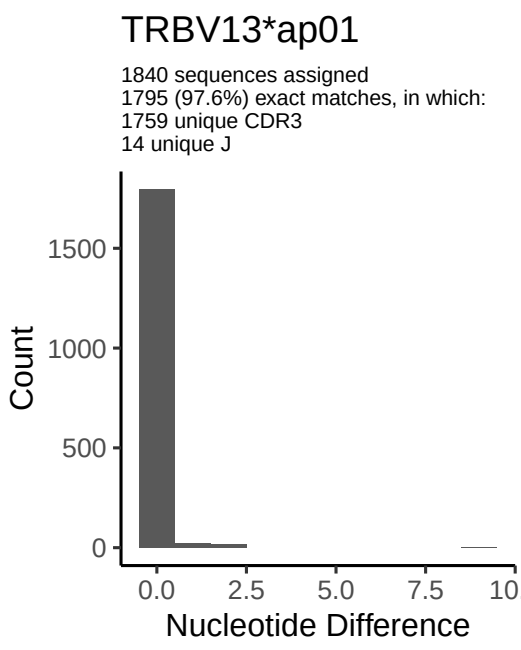


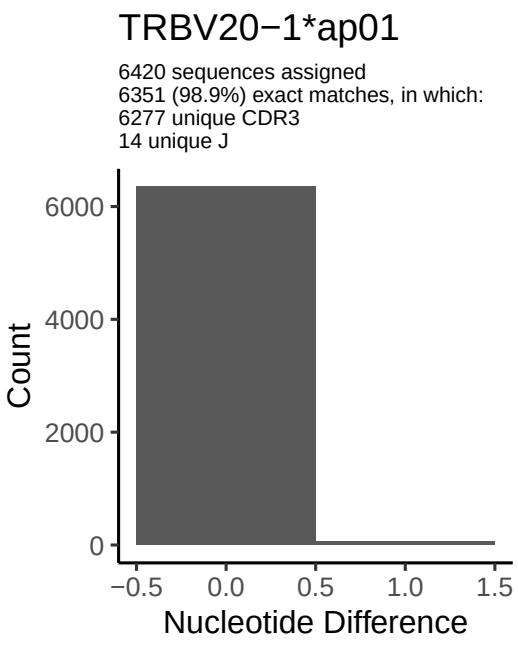
TRBV7−1*ap01_T296C− Final 3 nucleotides as a triplet

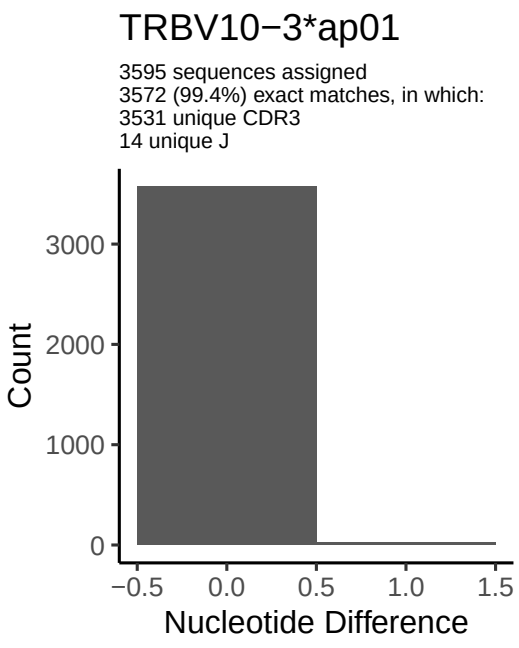


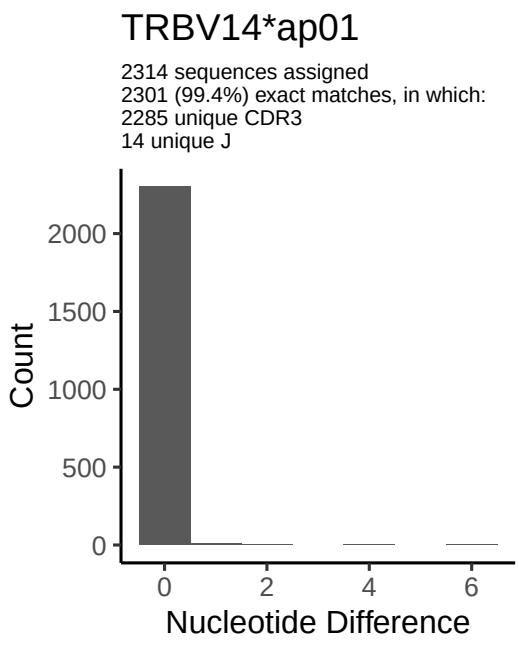

TRBV10−1*ap01
1457 sequences assigned
1441 (98.9%) exact matches, in which:
1423 unique CDR3
14 unique J
Count
Nucleotide Difference

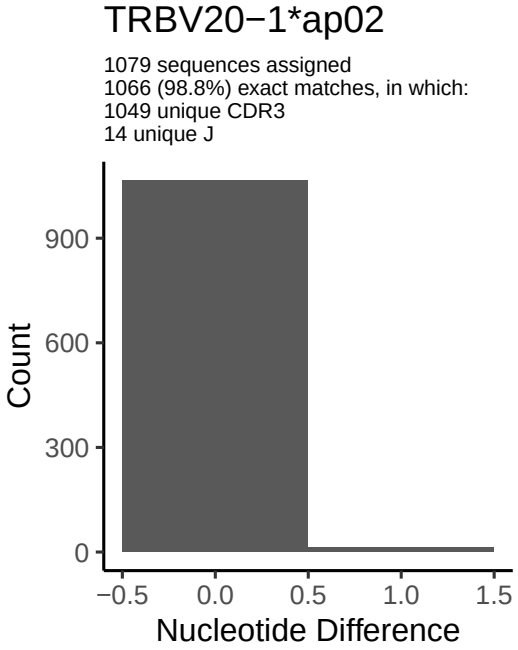

TRBV10−2*ap01
830 sequences assigned
823 (99.2%) exact matches, in which:
814 unique CDR3
14 unique J
Count
Nucleotide Difference

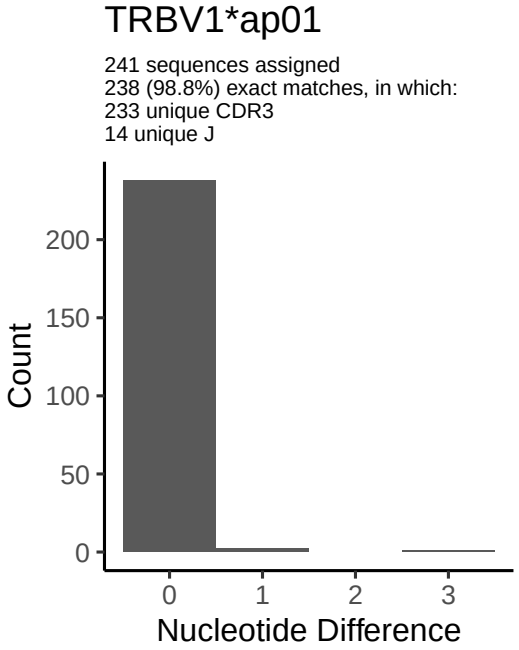

TRBV13*ap01
1840 sequences assigned
1795 (97.6%) exact matches, in which:
1759 unique CDR3
14 unique J
Count
Nucleotide Difference

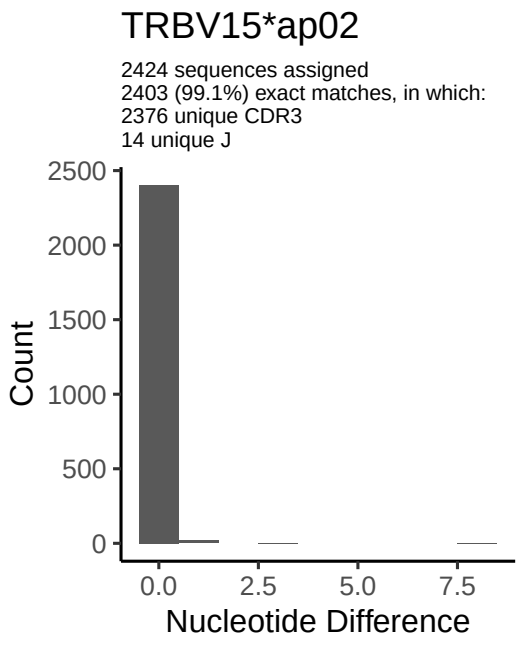

TRBV20−1*ap01
6420 sequences assigned
6351 (98.9%) exact matches, in which:
6277 unique CDR3
14 unique J
Count
Nucleotide Difference


TRBV10−3*ap01
3595 sequences assigned
3572 (99.4%) exact matches, in which:
3531 unique CDR3
14 unique J
Count
Nucleotide Difference


TRBV14*ap01
2314 sequences assigned
2301 (99.4%) exact matches, in which:
2285 unique CDR3
14 unique J
Count
Nucleotide Difference

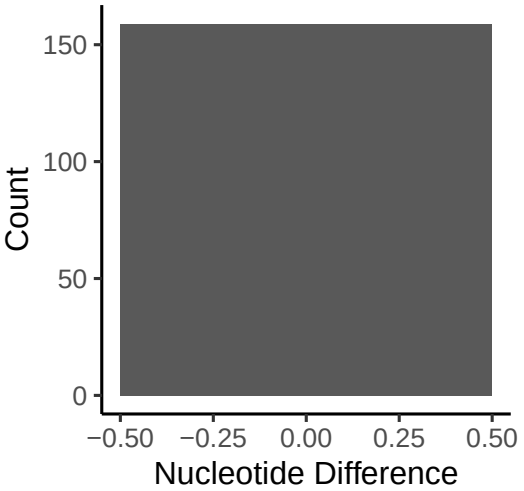

TRBV20−1*ap02
1079 sequences assigned
1066 (98.8%) exact matches, in which:
1049 unique CDR3
14 unique J
Count
Nucleotide Difference


TRBV1*ap01
241 sequences assigned
238 (98.8%) exact matches, in which:
233 unique CDR3
14 unique J
Count
Nucleotide Difference


TRBV15*ap02
2424 sequences assigned
2403 (99.1%) exact matches, in which:
2376 unique CDR3
14 unique J
Count
Nucleotide Difference

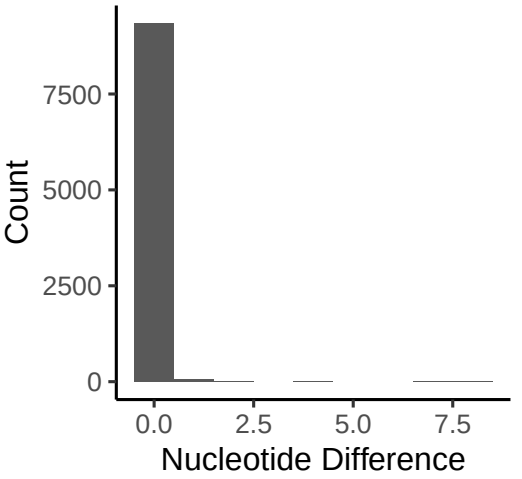
TRBV16*ap01

159 sequences assigned
159 (100%) exact matches, in which:
158 unique CDR3
14 unique J



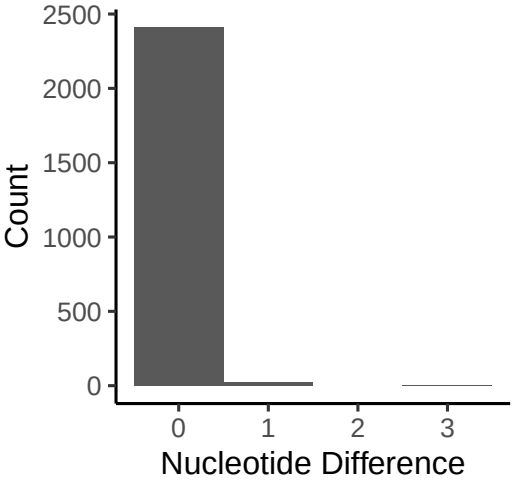
TRBV19*ap01

9401 sequences assigned
9340 (99.4%) exact matches, in which:
9309 unique CDR3
14 unique J



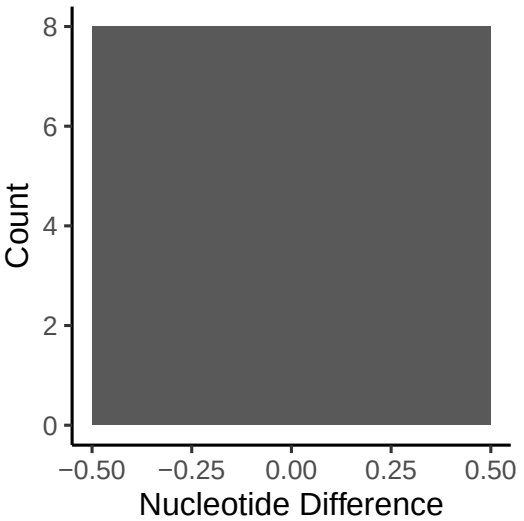
TRBV28*ap01

2433 sequences assigned
2410 (99.1%) exact matches, in which:
2391 unique CDR3
14 unique J



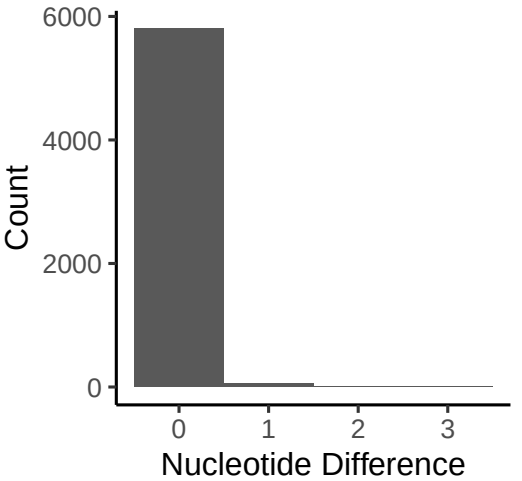
TRBV17*ap01

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



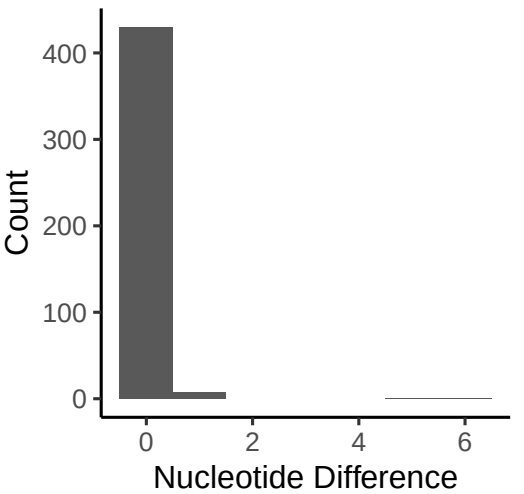
TRBV2*ap01

5869 sequences assigned
5801 (98.8%) exact matches, in which:
5733 unique CDR3
14 unique J



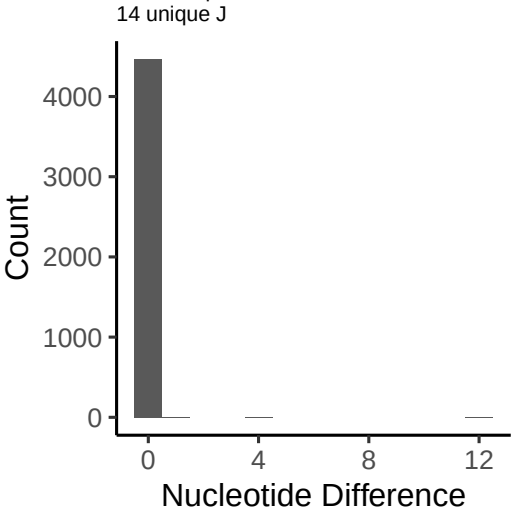
TRBV30*ap02

440 sequences assigned
430 (97.7%) exact matches, in which:
422 unique CDR3
14 unique J



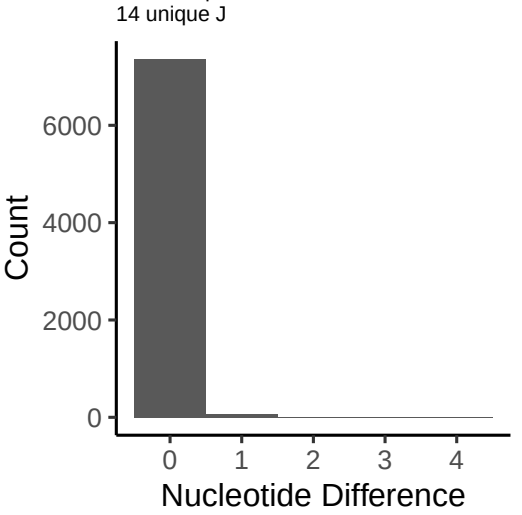
TRBV18*ap01

4473 sequences assigned
4467 (99.9%) exact matches, in which:
4450 unique CDR3
14 unique J



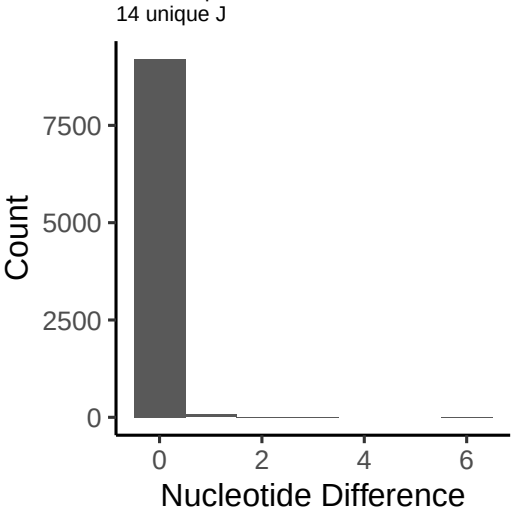
TRBV27*ap01

7441 sequences assigned
7362 (98.9%) exact matches, in which:
7254 unique CDR3
14 unique J



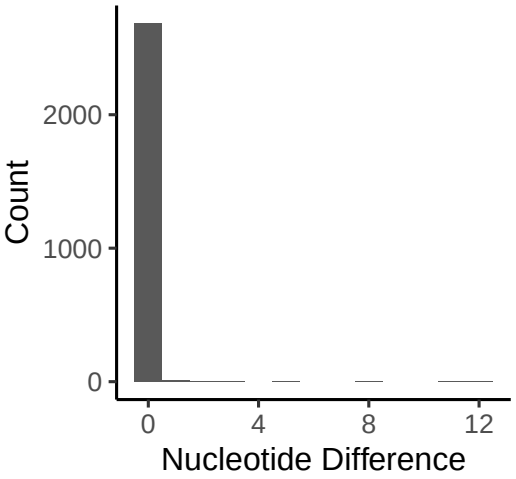
TRBV9*ap01

9276 sequences assigned
9204 (99.2%) exact matches, in which:
9107 unique CDR3
14 unique J



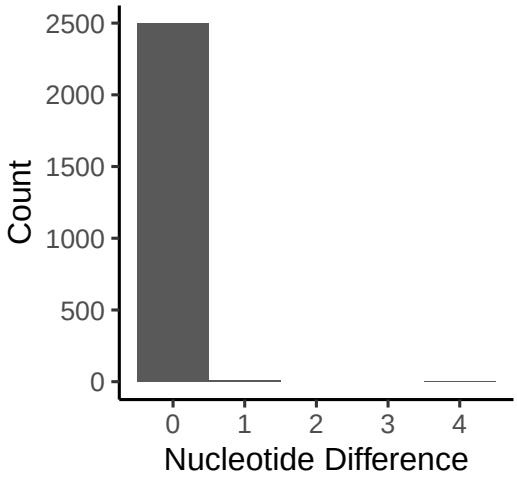
TRBV21−1*ap01

2711 sequences assigned
2684 (99%) exact matches, in which:
2666 unique CDR3
14 unique J



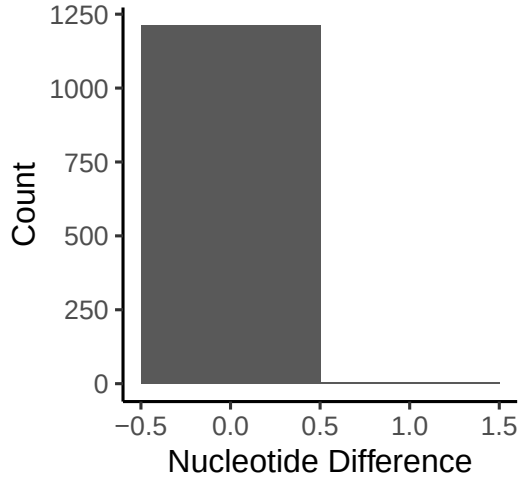
TRBV11−3*ap01

2514 sequences assigned
2498 (99.4%) exact matches, in which:
2486 unique CDR3
14 unique J



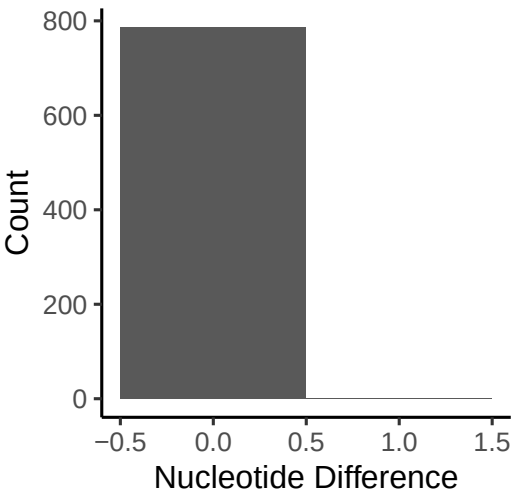
TRBV12−5*ap01

1218 sequences assigned
1212 (99.5%) exact matches, in which:
1207 unique CDR3
14 unique J



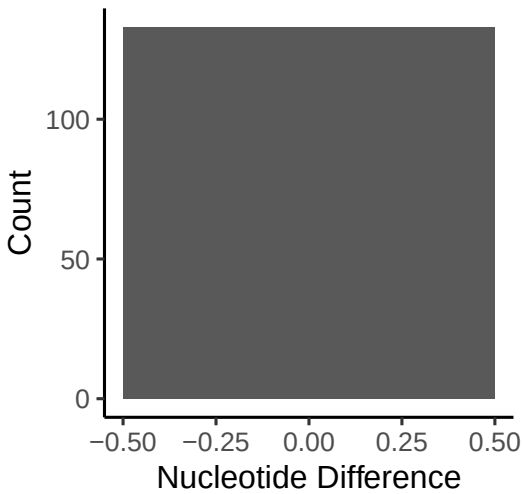
TRBV11−1*ap01

789 sequences assigned
787 (99.7%) exact matches, in which:
783 unique CDR3
14 unique J



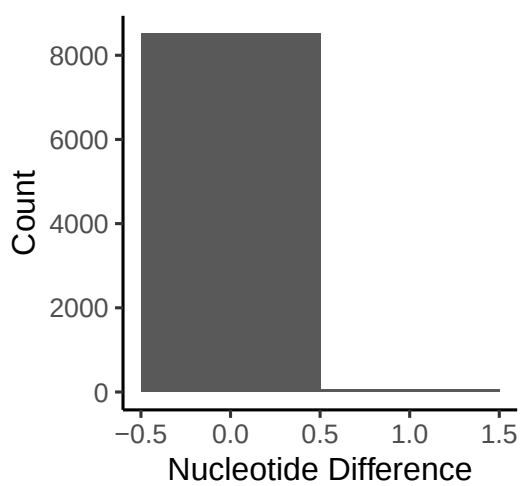
TRBV12−1*ap01

133 sequences assigned
133 (100%) exact matches, in which:
131 unique CDR3
14 unique J



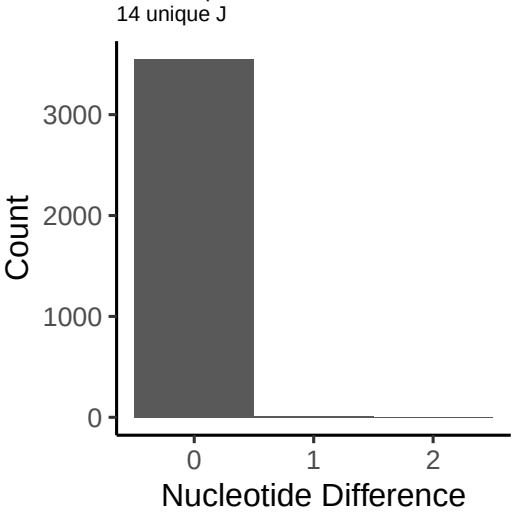
TRBV12−34*ap01

8579 sequences assigned
8512 (99.2%) exact matches, in which:
8423 unique CDR3
14 unique J



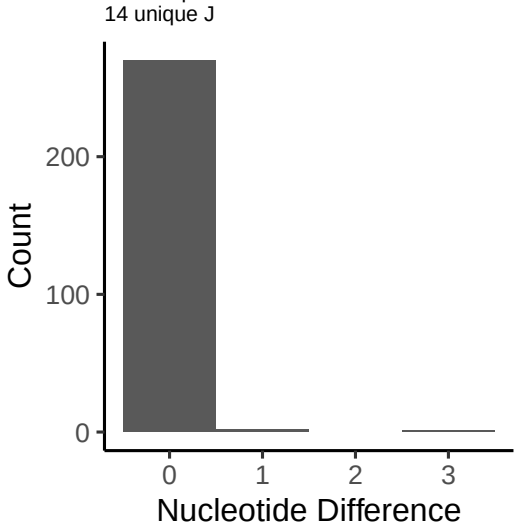
TRBV11−2*ap01

3564 sequences assigned
3551 (99.6%) exact matches, in which:
3526 unique CDR3
14 unique J



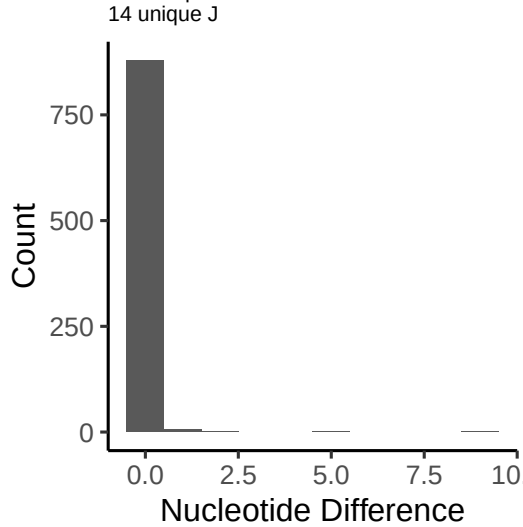
TRBV12−2*ap01

273 sequences assigned
270 (98.9%) exact matches, in which:
268 unique CDR3
14 unique J



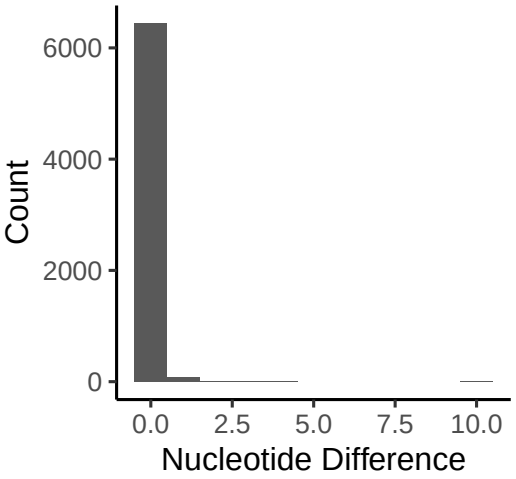
TRBV23−1*ap01

888 sequences assigned
879 (99%) exact matches, in which:
872 unique CDR3
14 unique J



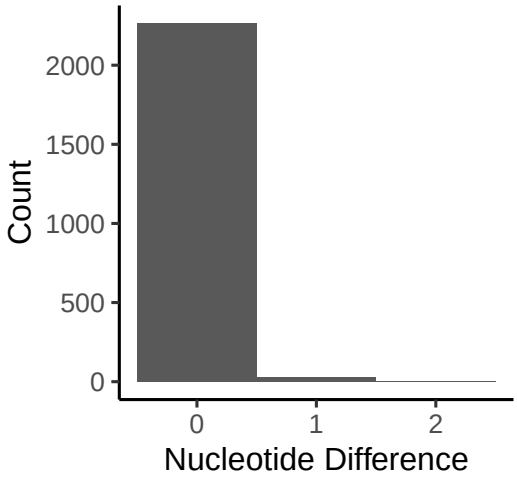
TRBV3−12*ap01

6520 sequences assigned
6440 (98.8%) exact matches, in which:
6370 unique CDR3
14 unique J



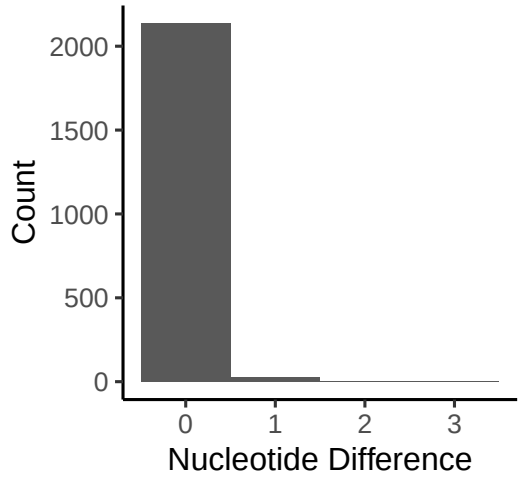
TRBV4−2*ap01

2294 sequences assigned
2264 (98.7%) exact matches, in which:
2235 unique CDR3
14 unique J



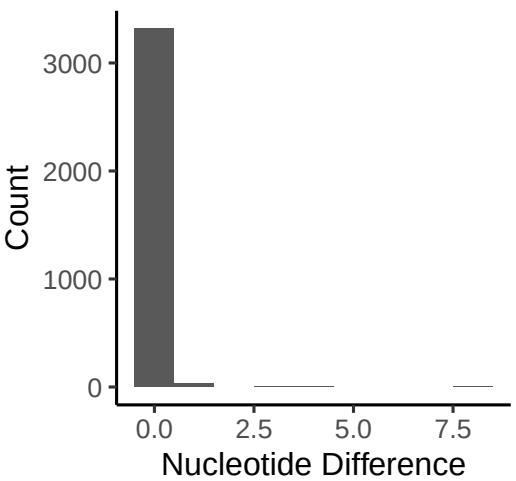
TRBV25−1*ap01

2168 sequences assigned
2136 (98.5%) exact matches, in which:
2113 unique CDR3
14 unique J



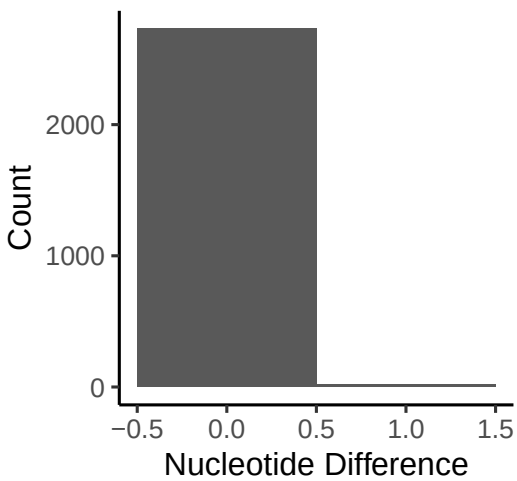
TRBV4−1*ap01

3351 sequences assigned
3317 (99%) exact matches, in which:
3279 unique CDR3
14 unique J



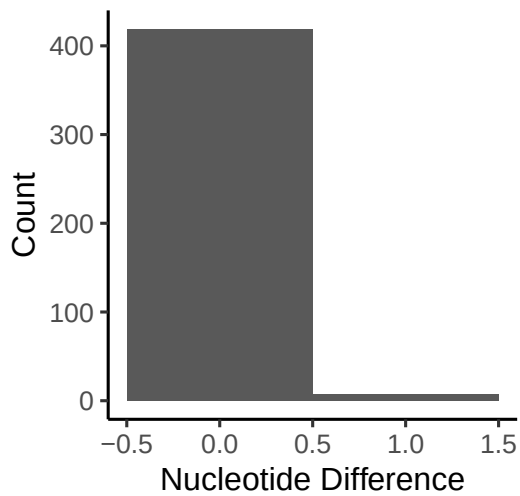
TRBV4−3*ap01

2752 sequences assigned
2731 (99.2%) exact matches, in which:
2686 unique CDR3
15 unique J



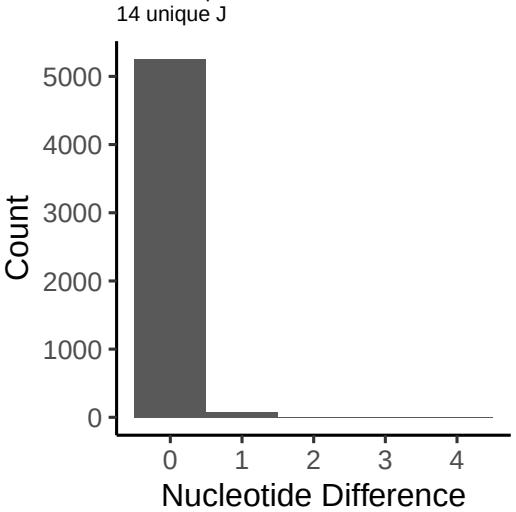
TRBV5−3*ap01

426 sequences assigned
419 (98.4%) exact matches, in which:
415 unique CDR3
14 unique J



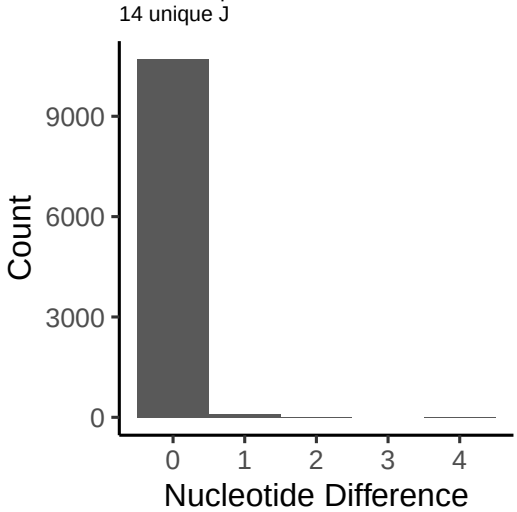
TRBV24−1*ap01

5336 sequences assigned
5254 (98.5%) exact matches, in which:
5199 unique CDR3
14 unique J



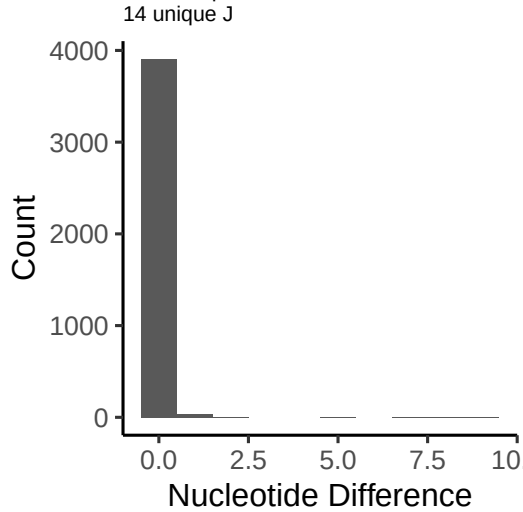
TRBV5−1*ap01

10812 sequences assigned
10711 (99.1%) exact matches, in which:
10545 unique CDR3
14 unique J



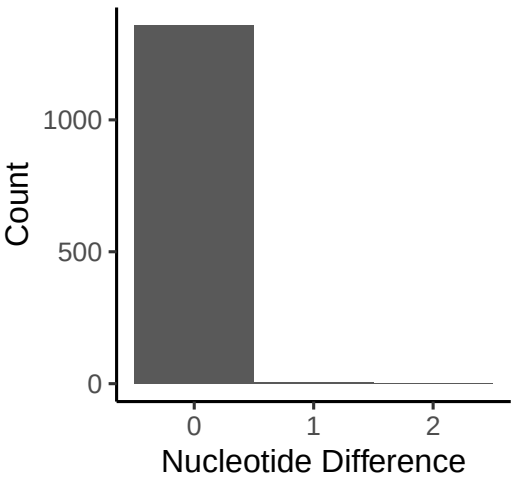
TRBV5−4*ap01

3949 sequences assigned
3906 (98.9%) exact matches, in which:
3852 unique CDR3
14 unique J



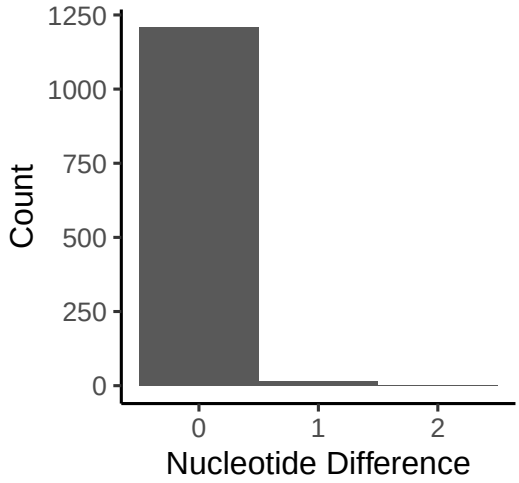
TRBV5−5*ap01

1367 sequences assigned
1358 (99.3%) exact matches, in which:
1349 unique CDR3
14 unique J



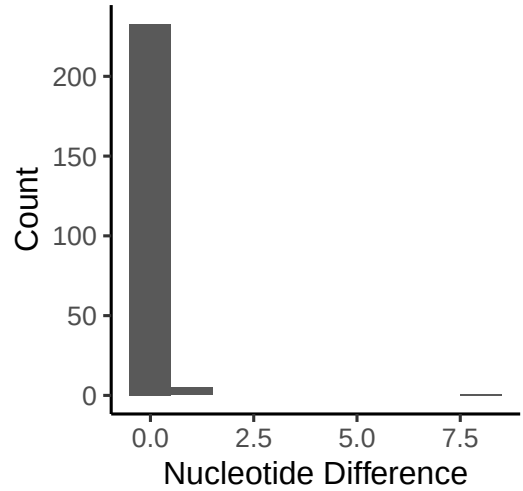
TRBV5−8*ap01

1223 sequences assigned
1208 (98.8%) exact matches, in which:
1195 unique CDR3
14 unique J



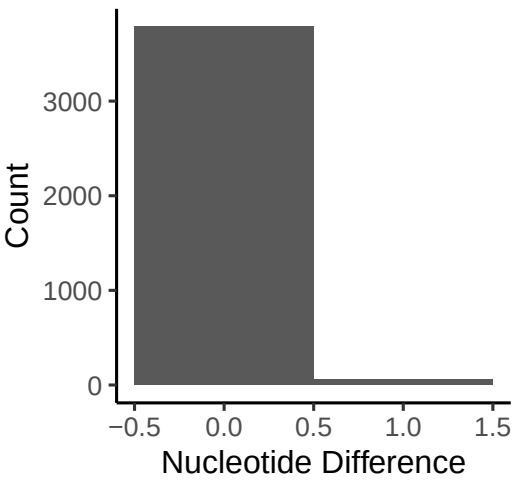
TRBV6−7*ap01

239 sequences assigned
233 (97.5%) exact matches, in which:
231 unique CDR3
14 unique J



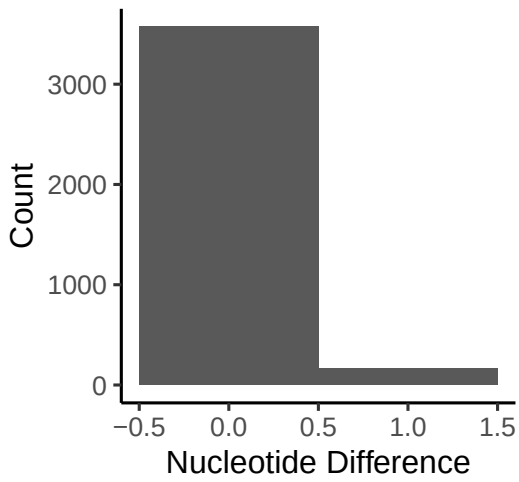
TRBV5−6*ap01

3841 sequences assigned
3786 (98.6%) exact matches, in which:
3689 unique CDR3
14 unique J



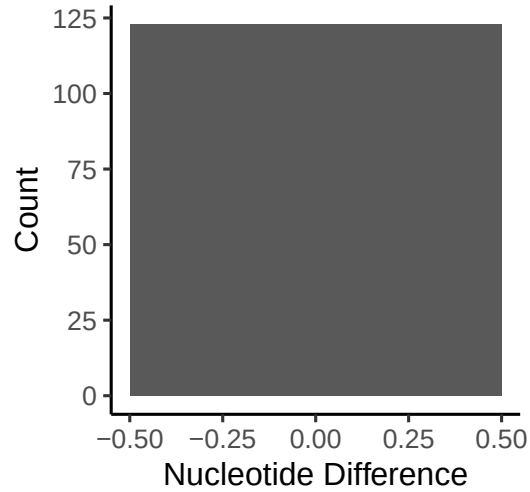
TRBV6−1*ap01

3734 sequences assigned
3573 (95.7%) exact matches, in which:
3517 unique CDR3
14 unique J



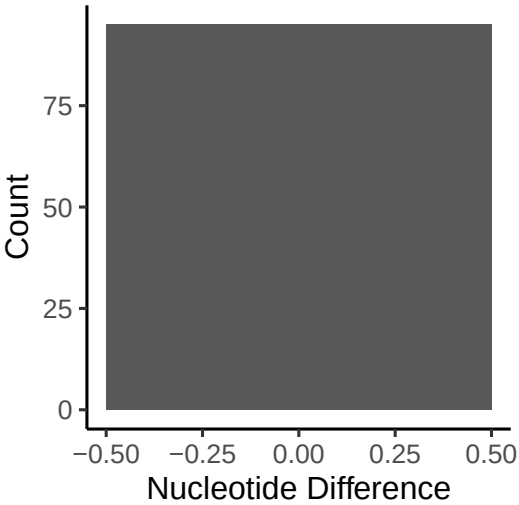
TRBV6−8*ap01

123 sequences assigned
123 (100%) exact matches, in which:
119 unique CDR3
12 unique J



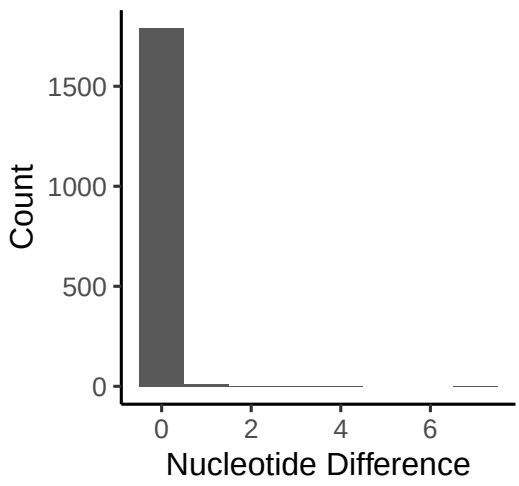
TRBV5−7*ap01

95 sequences assigned
95 (100%) exact matches, in which:
93 unique CDR3
14 unique J



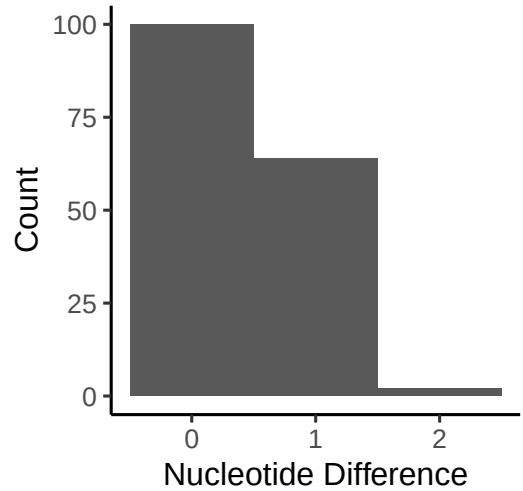
TRBV6−4*ap01

1810 sequences assigned
1791 (99%) exact matches, in which:
1776 unique CDR3
14 unique J



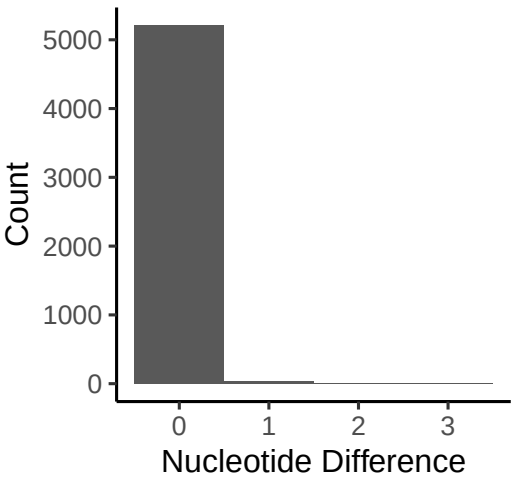
TRBV6−9*ap01

166 sequences assigned
100 (60.2%) exact matches, in which:
99 unique CDR3
12 unique J



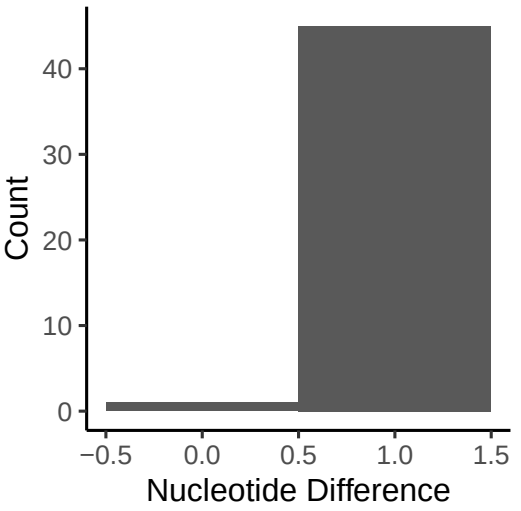
TRBV6−23*ap01

5251 sequences assigned
5209 (99.2%) exact matches, in which:
5099 unique CDR3
14 unique J



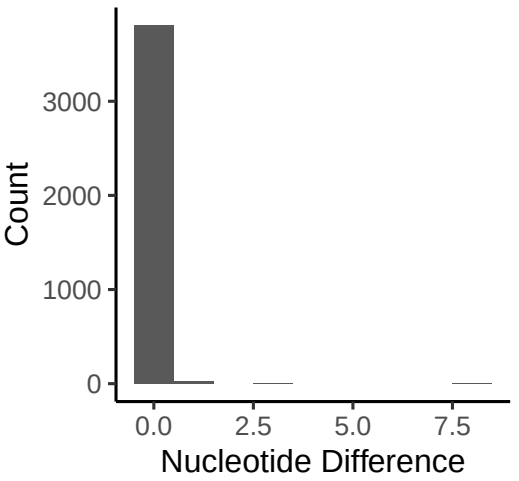
TRBV7−1*ap01_T296C

46 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



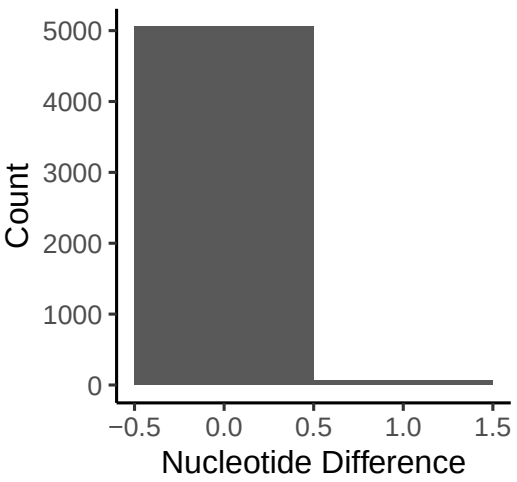
TRBV7−3*ap01

3831 sequences assigned
3806 (99.3%) exact matches, in which:
3774 unique CDR3
14 unique J



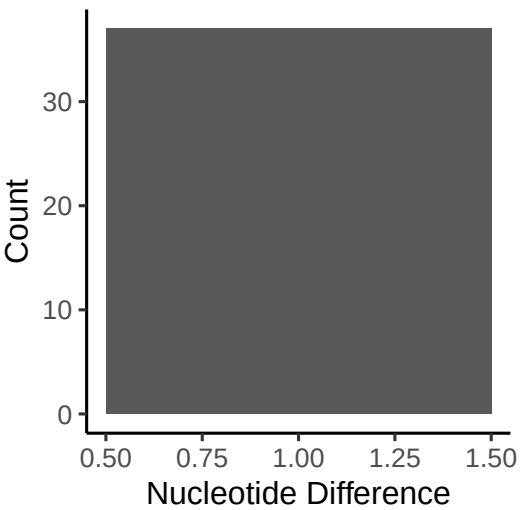
TRBV6−56*ap01

5114 sequences assigned
5055 (98.8%) exact matches, in which:
4987 unique CDR3
14 unique J



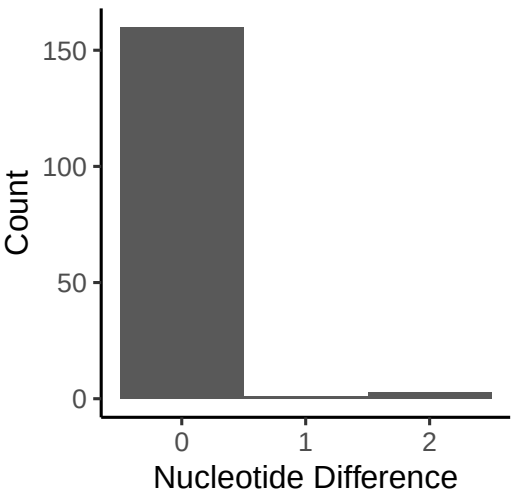
TRBV7−1*ap01_T296C_C

37 sequences assigned
No exact matches.



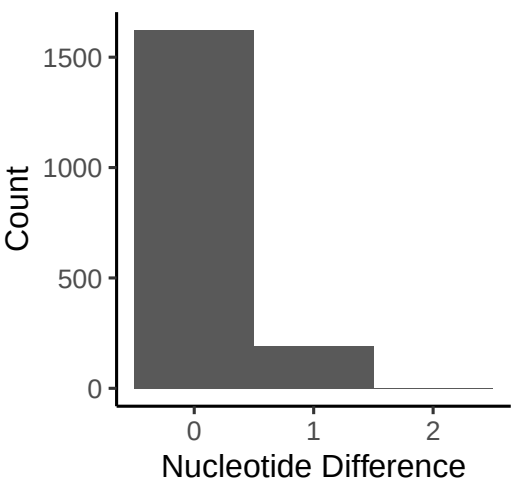
TRBV7−4*ap01

164 sequences assigned
160 (97.6%) exact matches, in which:
158 unique CDR3
14 unique J



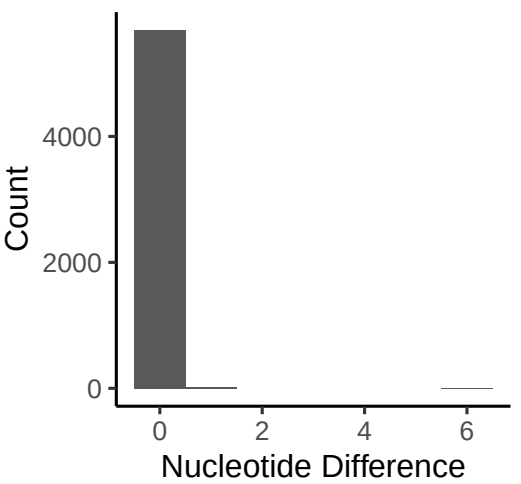
TRBV6−56*ap02

1817 sequences assigned
1623 (89.3%) exact matches, in which:
1604 unique CDR3
14 unique J



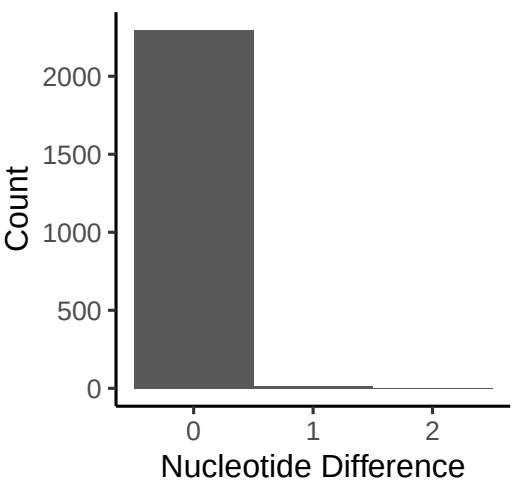
TRBV7−2*ap01

5711 sequences assigned
5689 (99.6%) exact matches, in which:
5643 unique CDR3
14 unique J



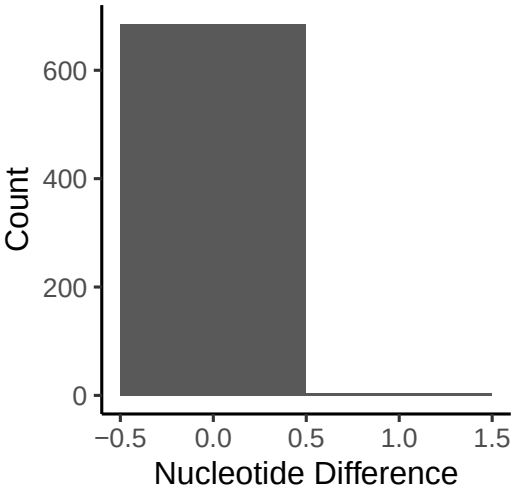
TRBV7−6*ap01

2314 sequences assigned
2296 (99.2%) exact matches, in which:
2274 unique CDR3
14 unique J



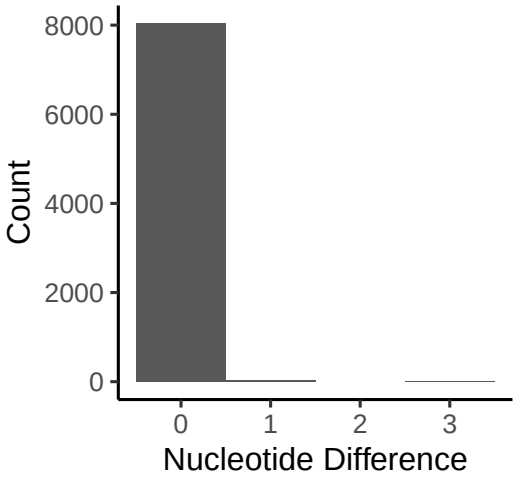
TRBV7−7*ap01

690 sequences assigned
686 (99.4%) exact matches, in which:
681 unique CDR3
14 unique J



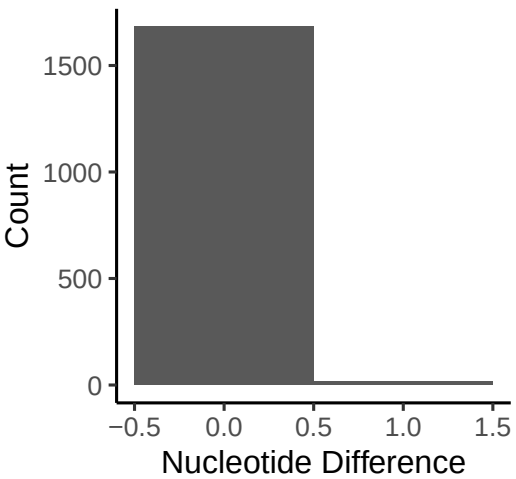
TRBV7−9*ap01

8084 sequences assigned
8039 (99.4%) exact matches, in which:
7984 unique CDR3
14 unique J



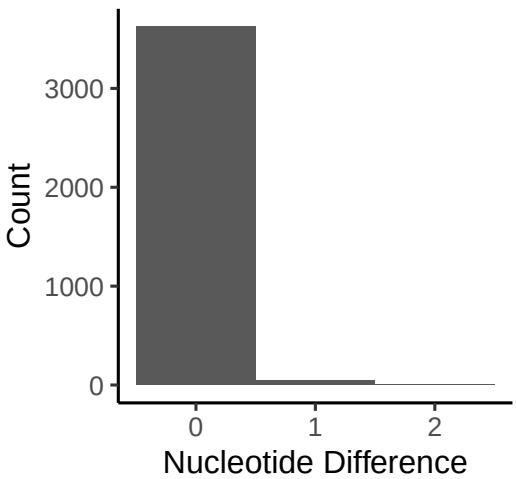
TRBV7−8*ap01

1697 sequences assigned
1682 (99.1%) exact matches, in which:
1667 unique CDR3
14 unique J



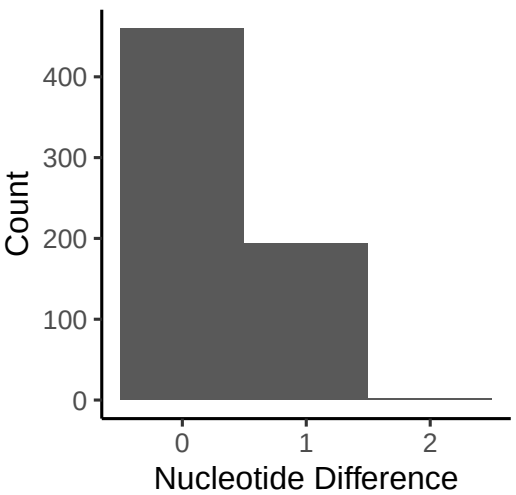
TRBV29−1*ap01

3670 sequences assigned
3624 (98.7%) exact matches, in which:
3584 unique CDR3
14 unique J



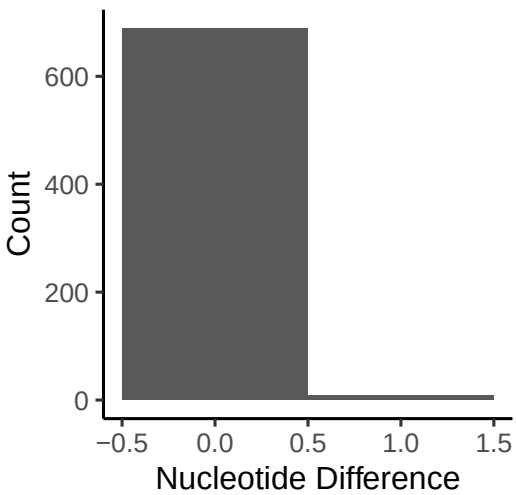
TRBV7−8*ap03

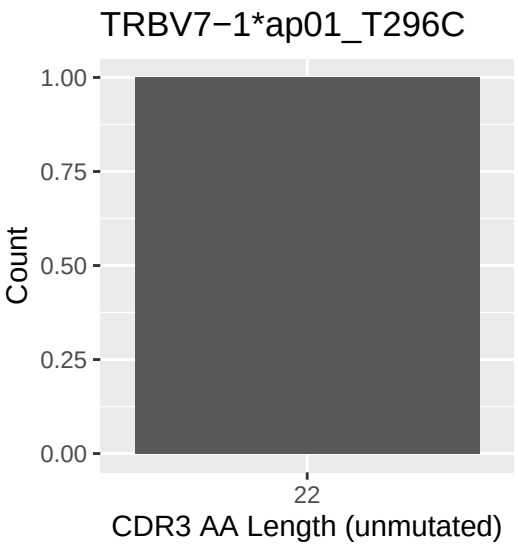
656 sequences assigned
460 (70.1%) exact matches, in which:
455 unique CDR3
14 unique J

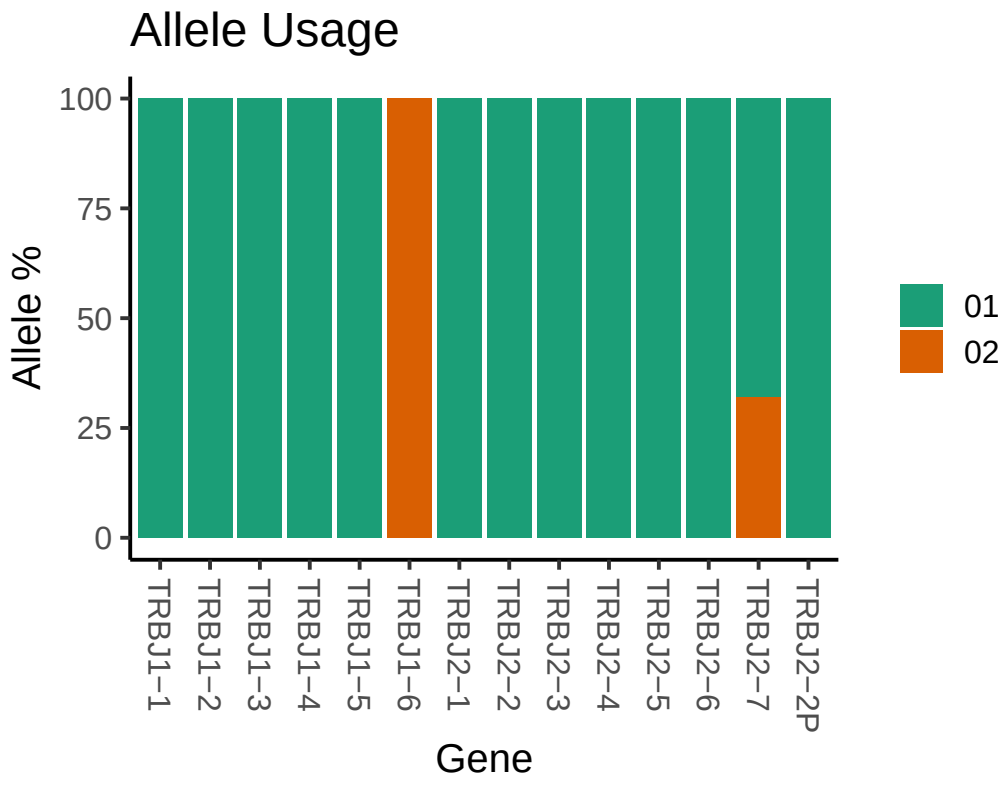


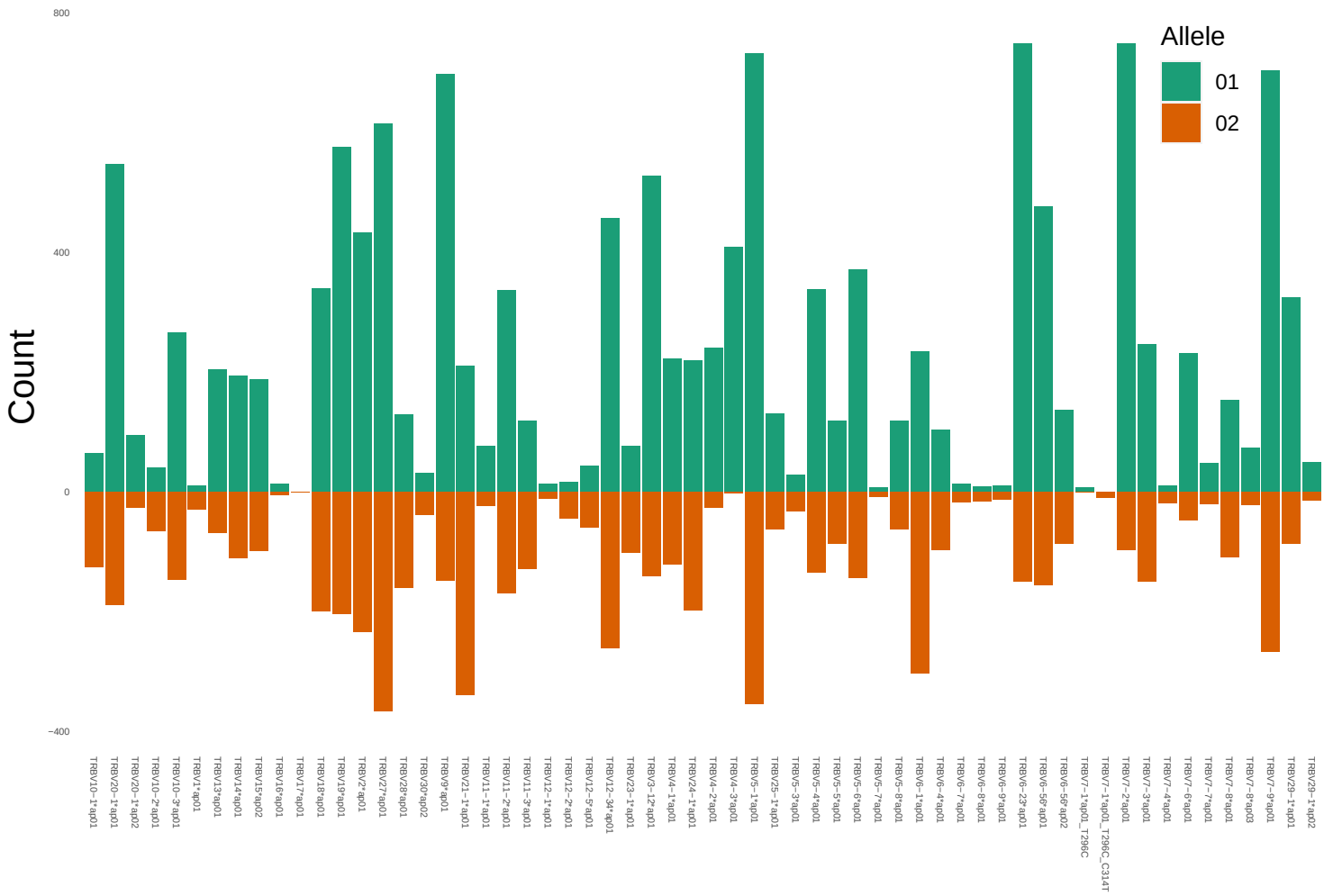
TRBV29−1*ap02

698 sequences assigned
689 (98.7%) exact matches, in which:
685 unique CDR3
14 unique J




TRBV7−1*ap01_T296C
1.00
0.75
0.50
0.25
0.00
Count
22
CDR3 AA Length (unmutated)


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
Count
800
400
0
−400
Allele
01
02
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
TRBV17*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
TRBV12-34*ap01
TRBV23-1*ap01
TRBV3-12*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
TRBV6-23*ap01
TRBV6-56*ap01
TRBV6-56*ap02
TRBV7-1*ap01_T296C
TRBV7-1*ap01_T296C_C314T
TRBV7-2*ap01
TRBV7-3*ap01
TRBV7-4*ap01
TRBV7-6*ap01
TRBV7-7*ap01
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.