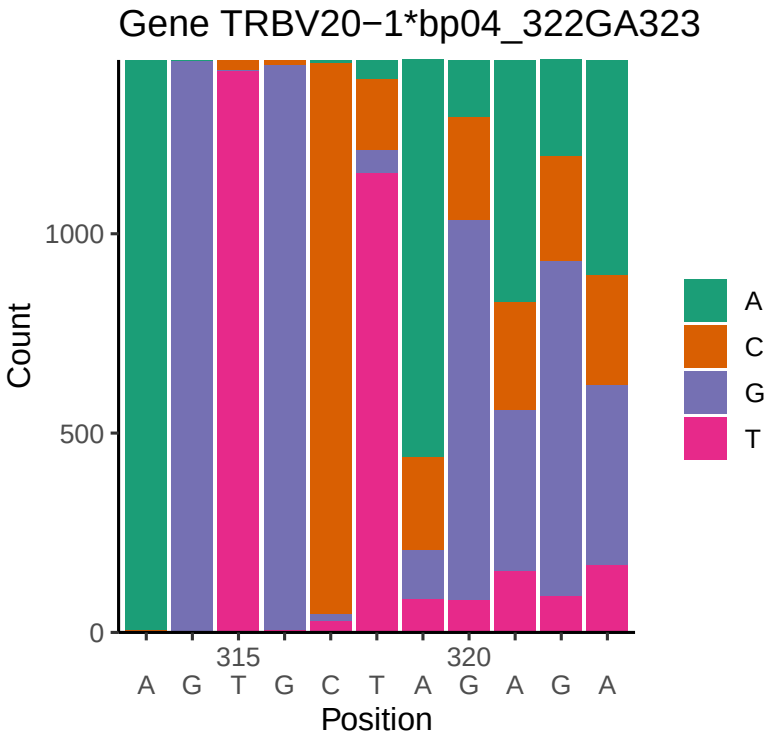
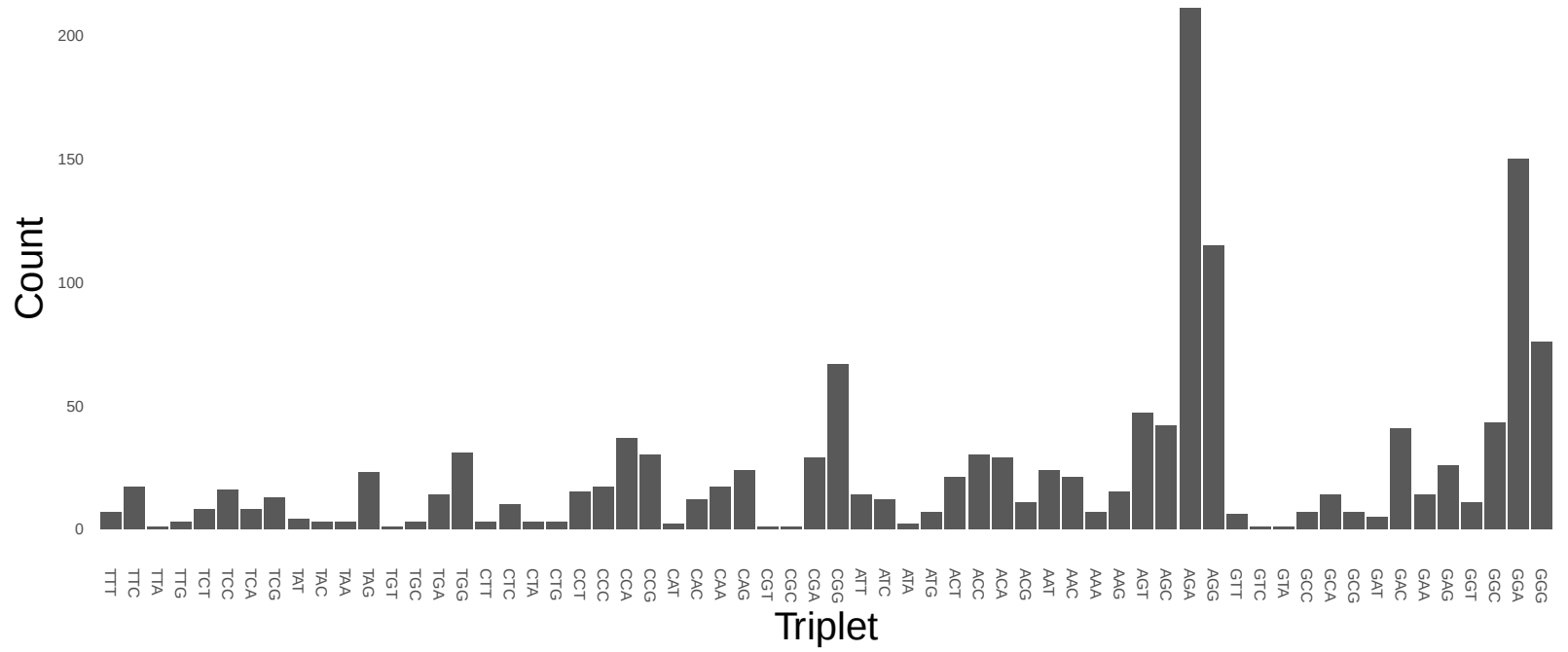

Gene TRBV20−1*bp04_322GA323
Count
1000
500
0
315
320
A G T G C T A G A G A
Position
A
C
G
T

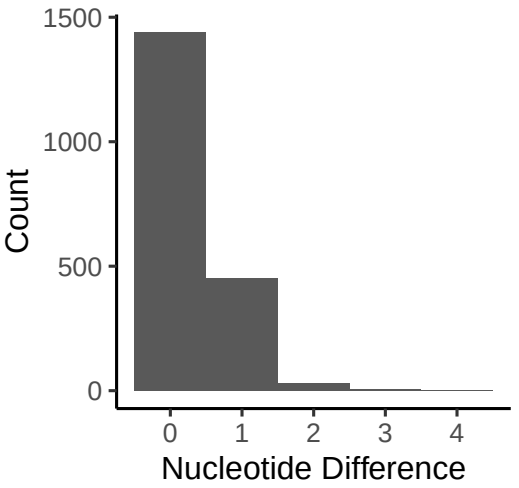
Gene TRBV20−1*bp04_322GA323
Count
1000
500
0
Position
A
C
G
T
.
–

TRBV20−1*bp04_322GA323− Final 3 nucleotides as a triplet



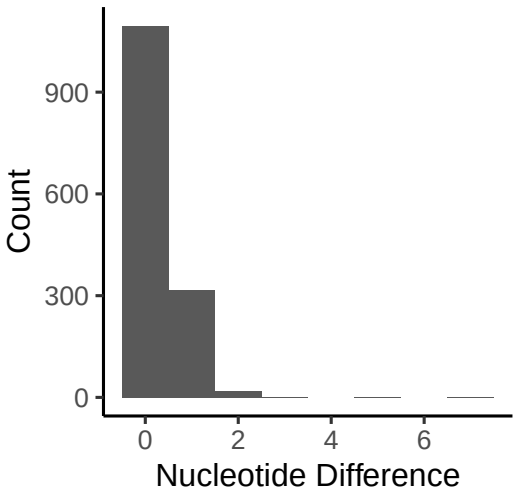
TRBV20−1*bp01

1927 sequences assigned
1439 (74.7%) exact matches, in which:
757 unique CDR3
15 unique J



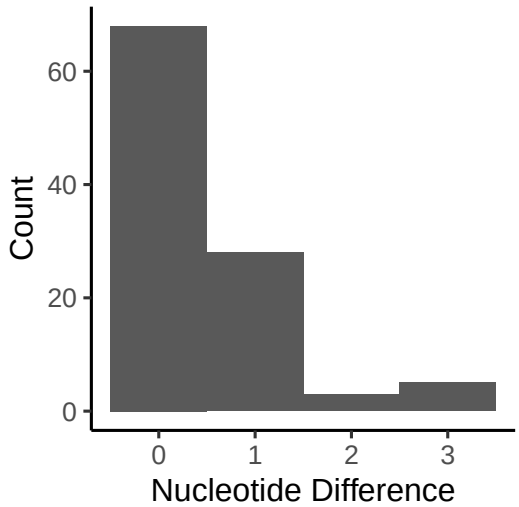
TRBV20−1*bp04_322GA

1436 sequences assigned
1096 (76.3%) exact matches, in which:
619 unique CDR3
15 unique J



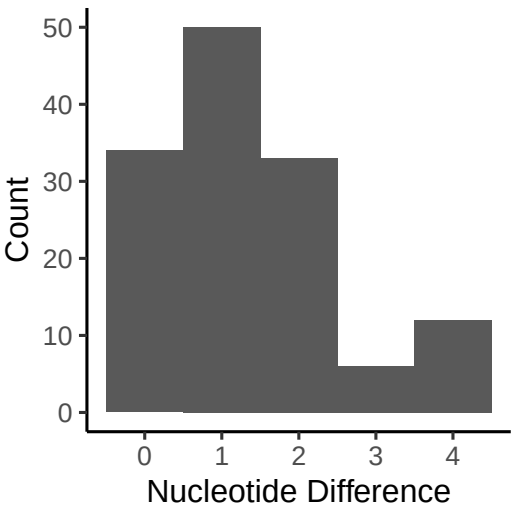
TRBV13*bp01

104 sequences assigned
68 (65.4%) exact matches, in which:
61 unique CDR3
13 unique J



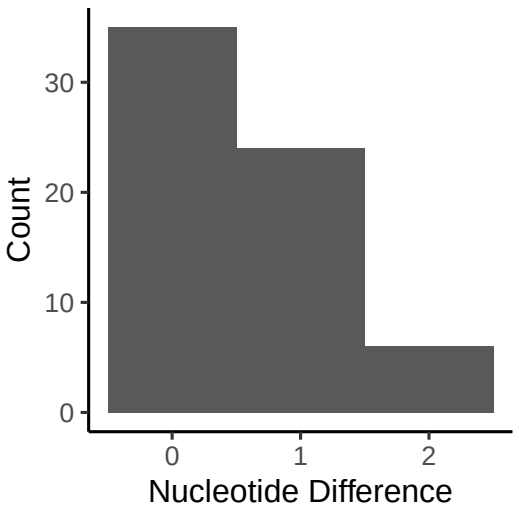
TRBV10−1*bp01

135 sequences assigned
34 (25.2%) exact matches, in which:
29 unique CDR3
10 unique J



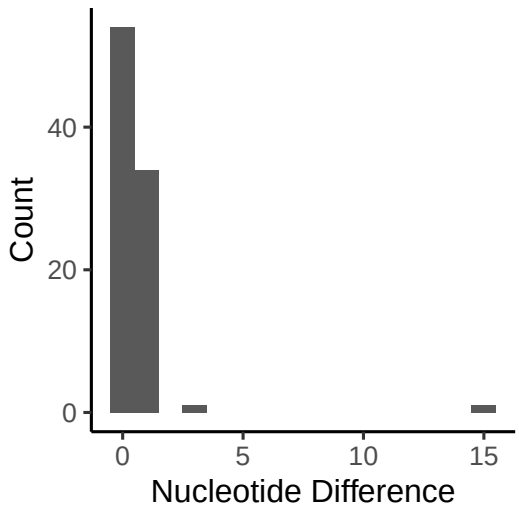
TRBV10−2*bp01

65 sequences assigned
35 (53.8%) exact matches, in which:
30 unique CDR3
12 unique J



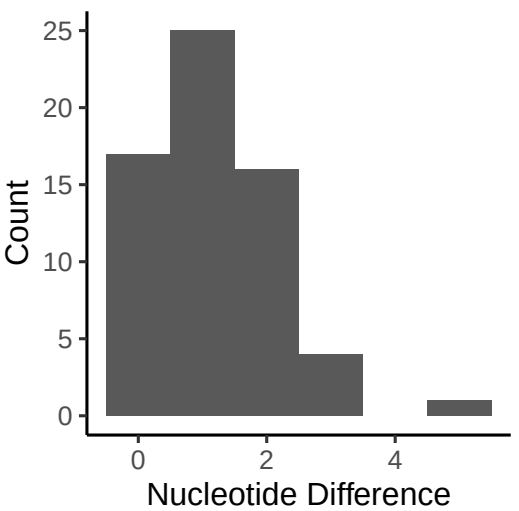
TRBV14*bp01

90 sequences assigned
54 (60%) exact matches, in which:
42 unique CDR3
10 unique J



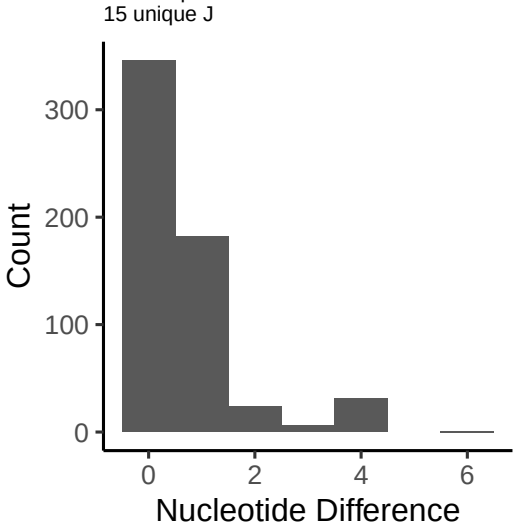
TRBV10−1*bp02

63 sequences assigned
17 (27%) exact matches, in which:
16 unique CDR3
8 unique J



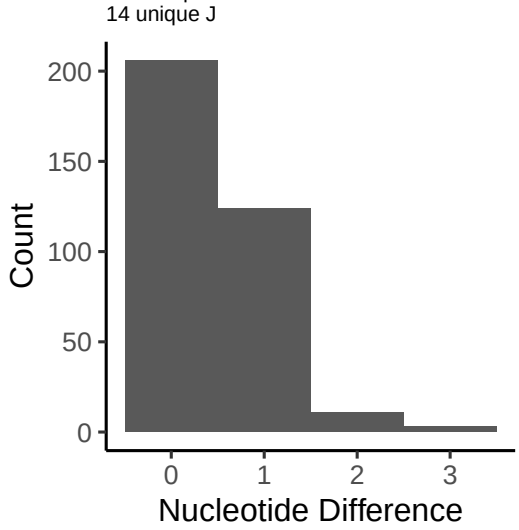
TRBV10−3*bp01

590 sequences assigned
346 (58.6%) exact matches, in which:
279 unique CDR3
15 unique J



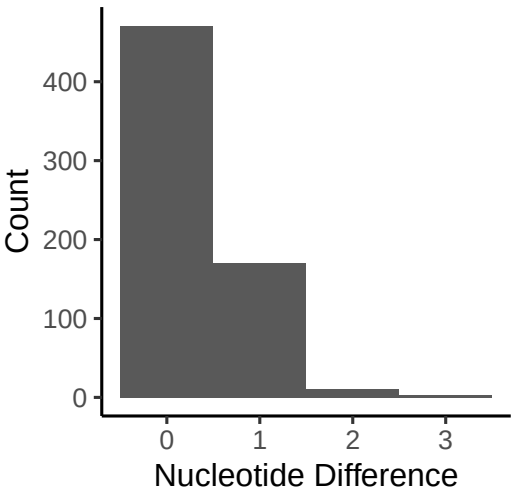
TRBV15*bp02

344 sequences assigned
206 (59.9%) exact matches, in which:
125 unique CDR3
14 unique J



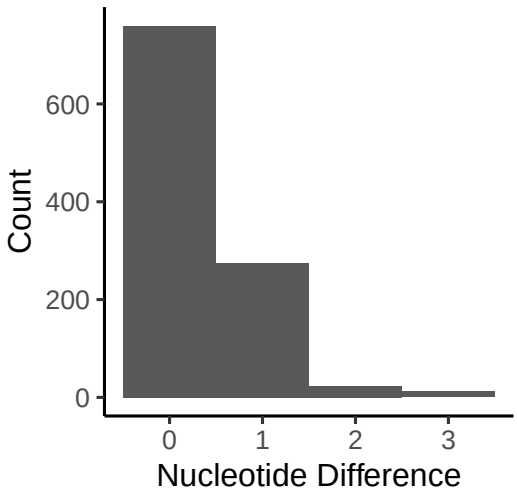
TRBV18*bp01

655 sequences assigned
471 (71.9%) exact matches, in which:
261 unique CDR3
14 unique J



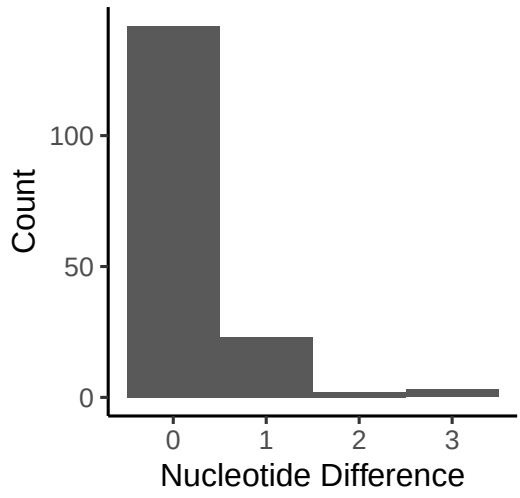
TRBV27*bp01

1069 sequences assigned
760 (71.1%) exact matches, in which:
631 unique CDR3
15 unique J



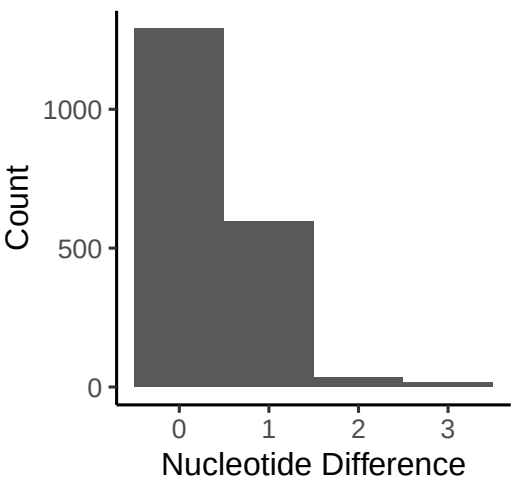
TRBV9*bp01

170 sequences assigned
142 (83.5%) exact matches, in which:
113 unique CDR3
15 unique J



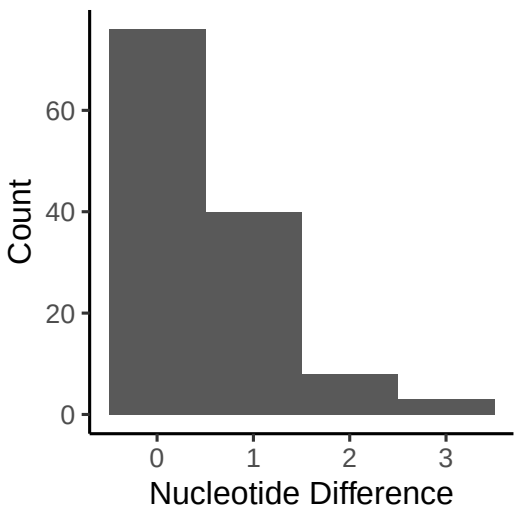
TRBV19*bp01

1936 sequences assigned
1290 (66.6%) exact matches, in which:
842 unique CDR3
15 unique J



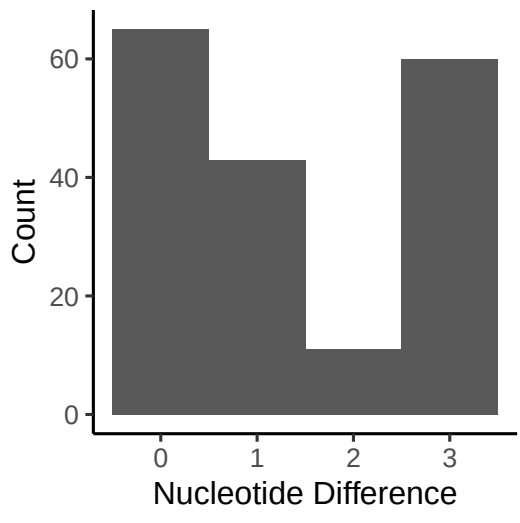
TRBV28*bp01

127 sequences assigned
76 (59.8%) exact matches, in which:
65 unique CDR3
13 unique J



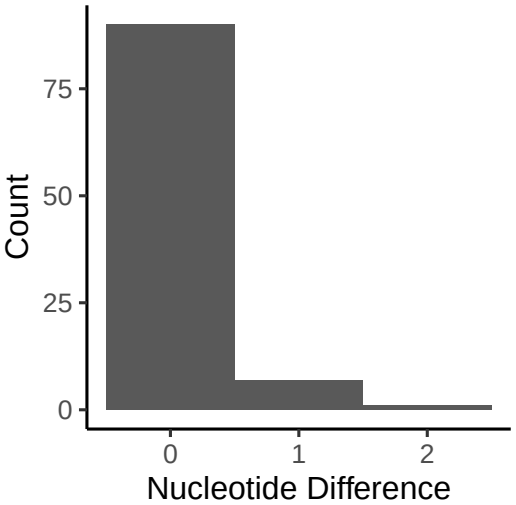
TRBV11−1*bp01

179 sequences assigned
65 (36.3%) exact matches, in which:
55 unique CDR3
11 unique J



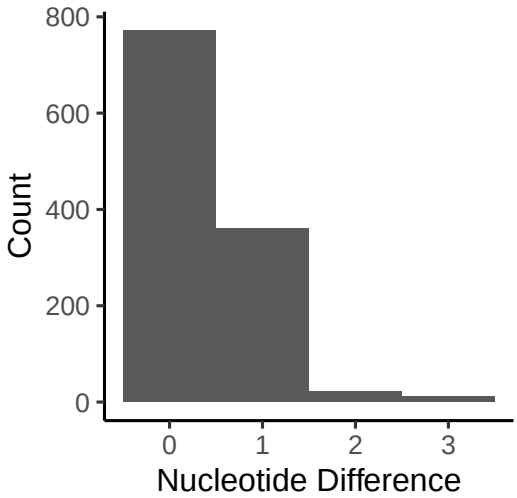
TRBV2*bp01

98 sequences assigned
90 (91.8%) exact matches, in which:
83 unique CDR3
13 unique J



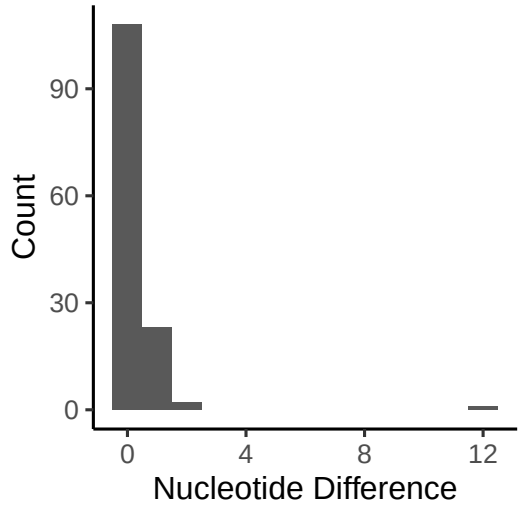
TRBV30*bp02

1165 sequences assigned
772 (66.3%) exact matches, in which:
366 unique CDR3
15 unique J



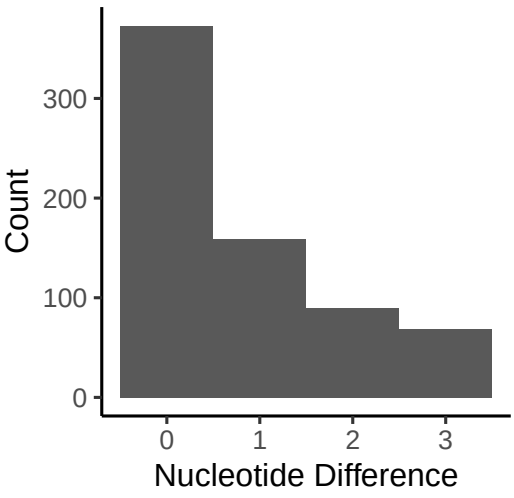
TRBV21−1*bp01

134 sequences assigned
108 (80.6%) exact matches, in which:
89 unique CDR3
12 unique J



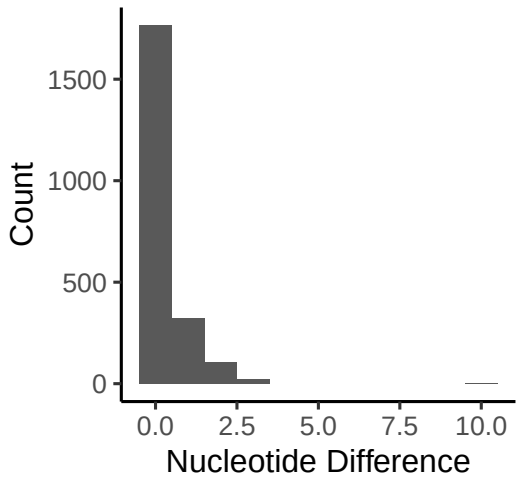
TRBV11−2*bp01

691 sequences assigned
373 (54%) exact matches, in which:
289 unique CDR3
15 unique J



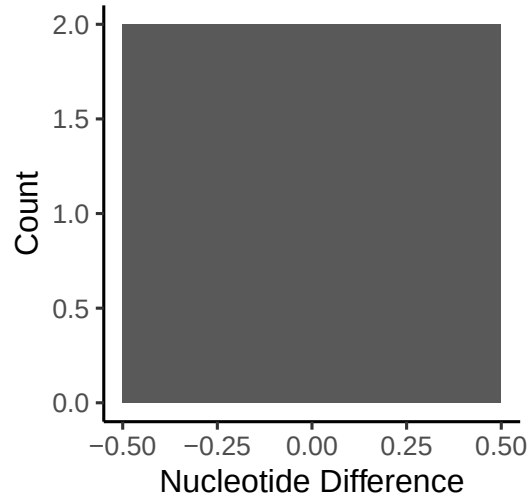
TRBV12−34*bp01

2217 sequences assigned
1765 (79.6%) exact matches, in which:
1053 unique CDR3
15 unique J



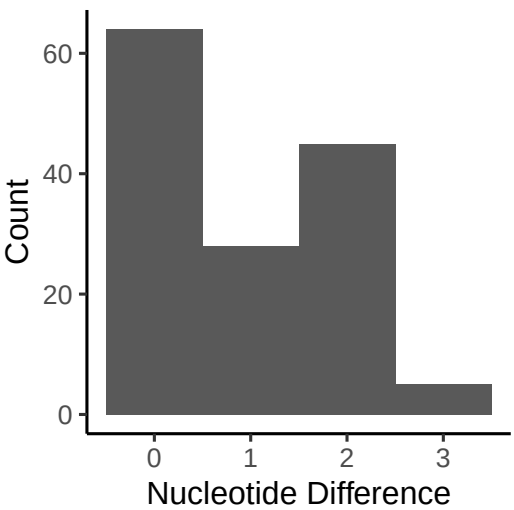
TRBV3−2*bp02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



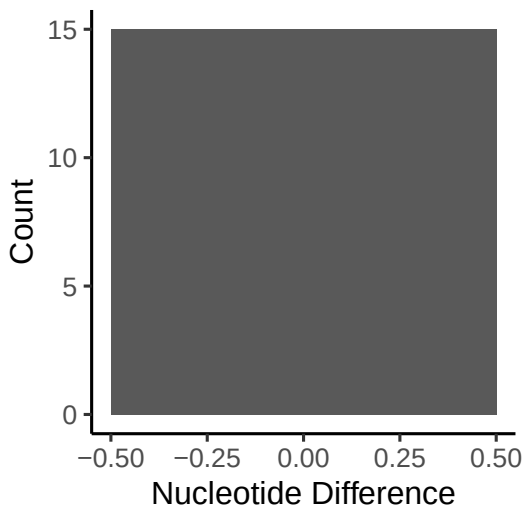
TRBV11−3*bp01

142 sequences assigned
64 (45.1%) exact matches, in which:
53 unique CDR3
10 unique J



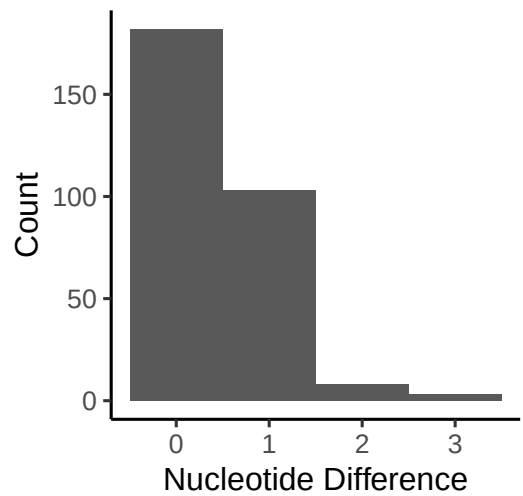
TRBV3−1*bp01

15 sequences assigned
15 (100%) exact matches, in which:
15 unique CDR3
7 unique J



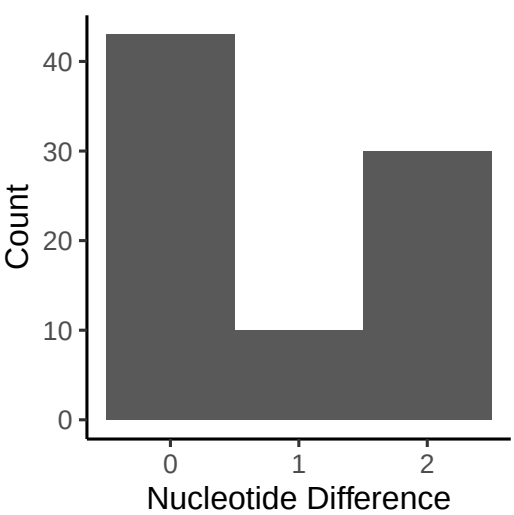
TRBV24−1*bp01

296 sequences assigned
182 (61.5%) exact matches, in which:
153 unique CDR3
14 unique J



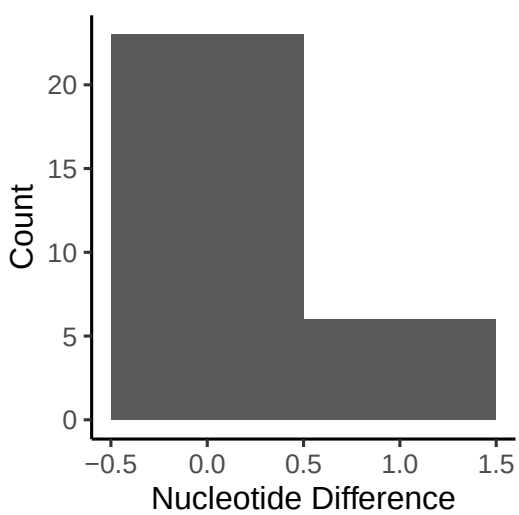
TRBV12−5*bp01

83 sequences assigned
43 (51.8%) exact matches, in which:
31 unique CDR3
14 unique J



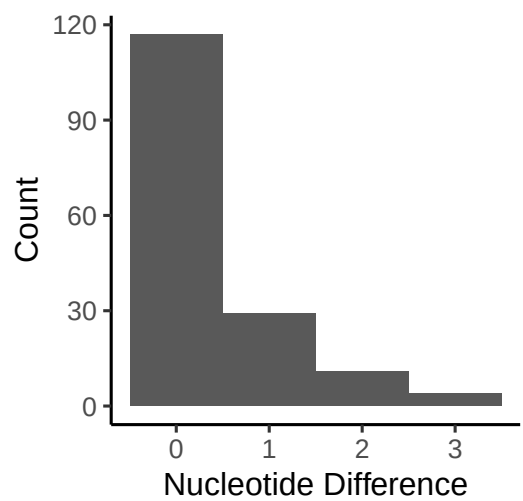
TRBV23−1*bp01

29 sequences assigned
23 (79.3%) exact matches, in which:
19 unique CDR3
9 unique J



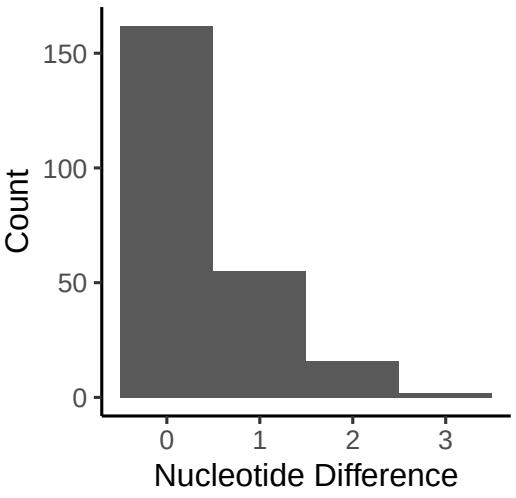
TRBV4−1*bp01

161 sequences assigned
117 (72.7%) exact matches, in which:
91 unique CDR3
13 unique J



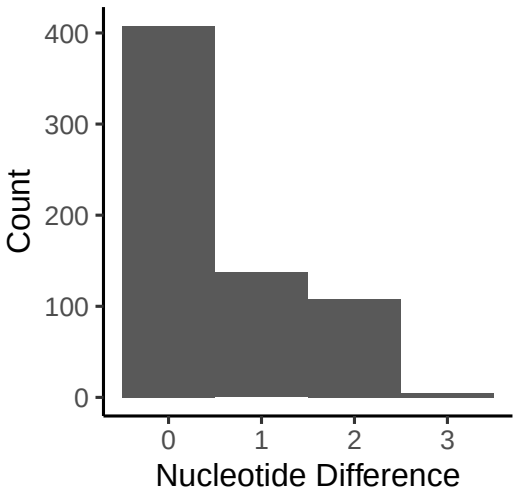
TRBV4−2*bp01

235 sequences assigned
162 (68.9%) exact matches, in which:
126 unique CDR3
15 unique J



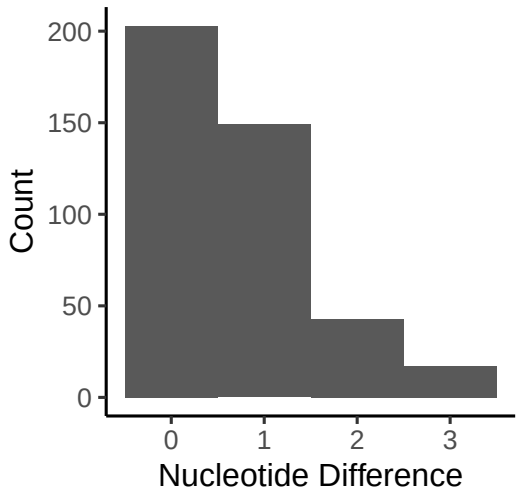
TRBV5−1*bp01

658 sequences assigned
408 (62%) exact matches, in which:
297 unique CDR3
15 unique J



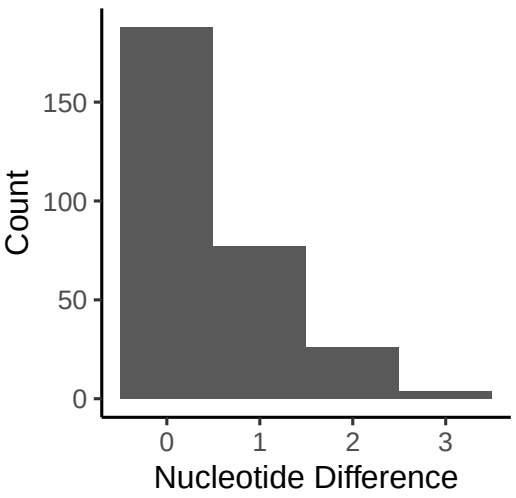
TRBV5−5*bp01

412 sequences assigned
203 (49.3%) exact matches, in which:
137 unique CDR3
14 unique J



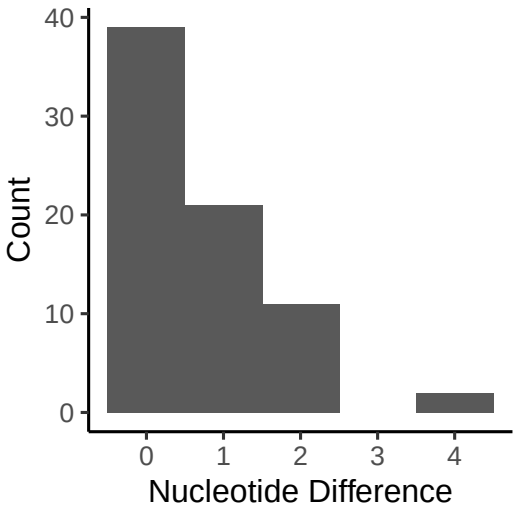
TRBV4−3*bp01

295 sequences assigned
188 (63.7%) exact matches, in which:
142 unique CDR3
15 unique J



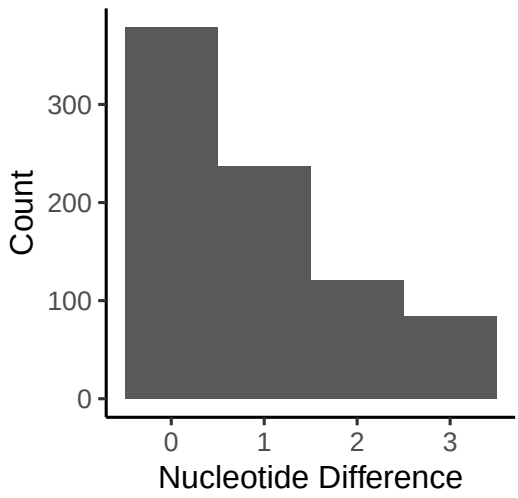
TRBV5−3*bp01

73 sequences assigned
39 (53.4%) exact matches, in which:
28 unique CDR3
11 unique J



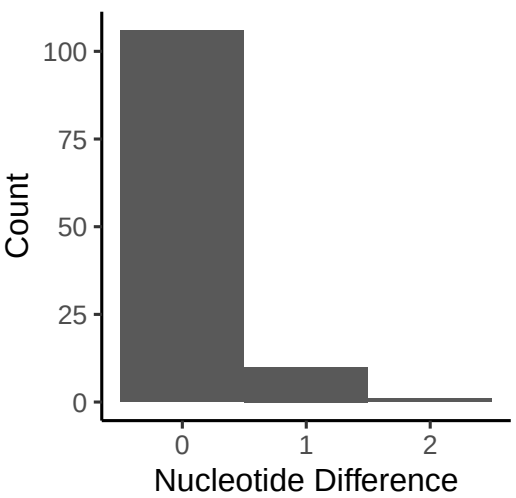
TRBV5−6*bp01

821 sequences assigned
379 (46.2%) exact matches, in which:
272 unique CDR3
15 unique J



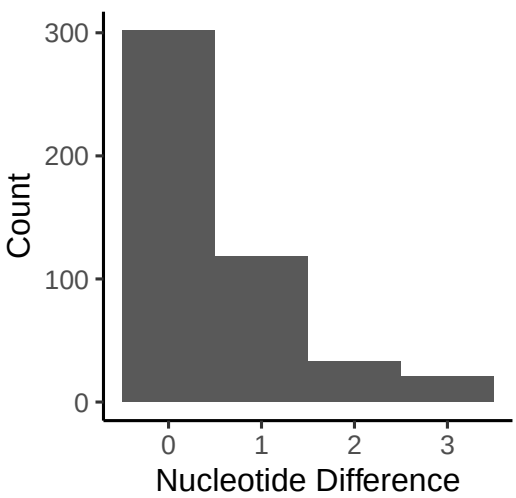
TRBV25−1*bp01

118 sequences assigned
106 (89.8%) exact matches, in which:
59 unique CDR3
14 unique J



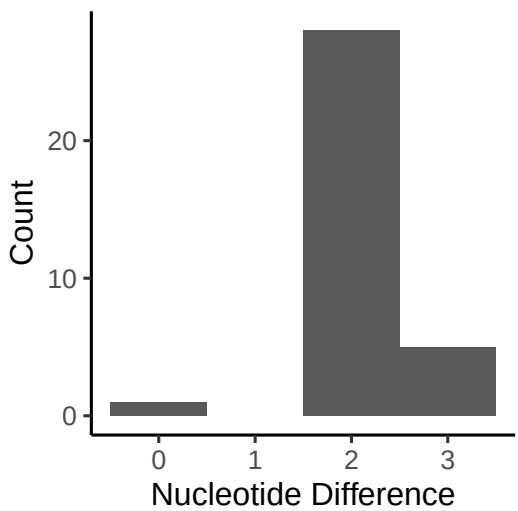
TRBV5−4*bp01

474 sequences assigned
302 (63.7%) exact matches, in which:
218 unique CDR3
15 unique J



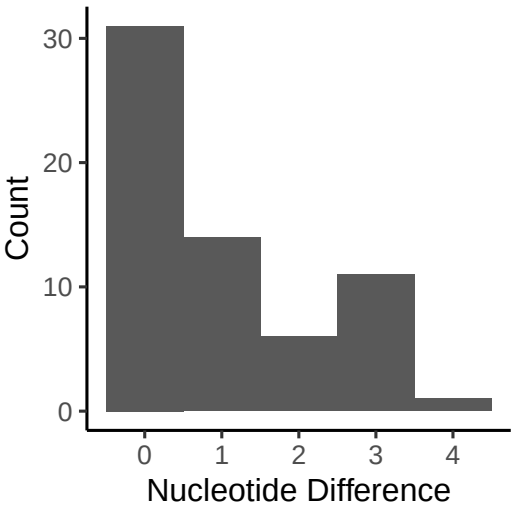
TRBV5−7*bp01

34 sequences assigned
1 (2.9%) exact matches, in which:
1 unique CDR3
1 unique J



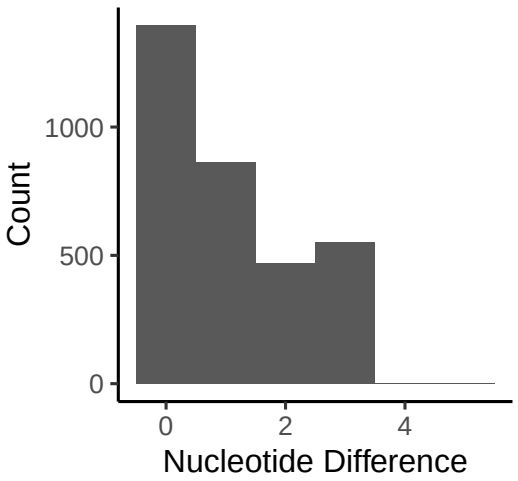
TRBV5−8*bp01

63 sequences assigned
31 (49.2%) exact matches, in which:
24 unique CDR3
11 unique J



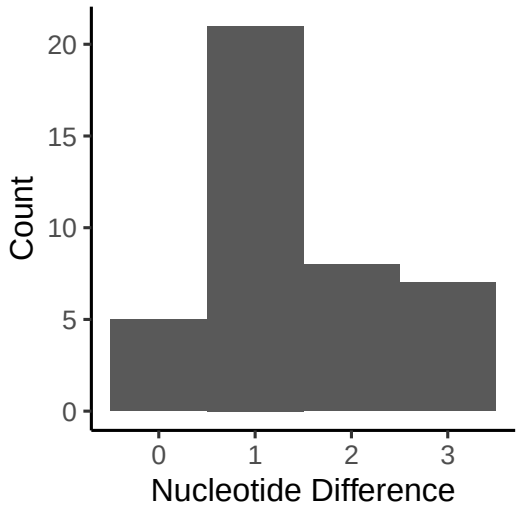
TRBV6−5*bp01

3287 sequences assigned
1396 (42.5%) exact matches, in which:
1098 unique CDR3
15 unique J



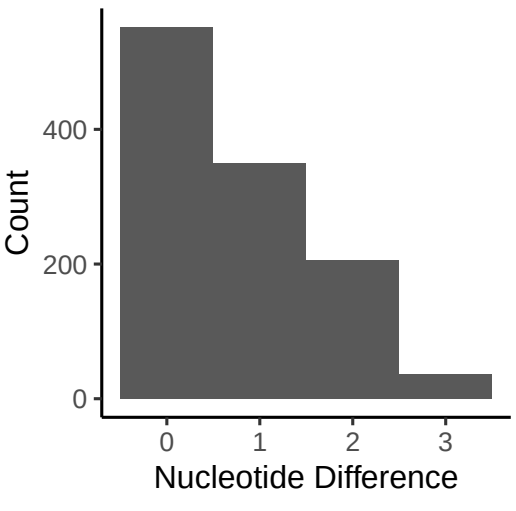
TRBV6−8*bp01

41 sequences assigned
5 (12.2%) exact matches, in which:
5 unique CDR3
4 unique J



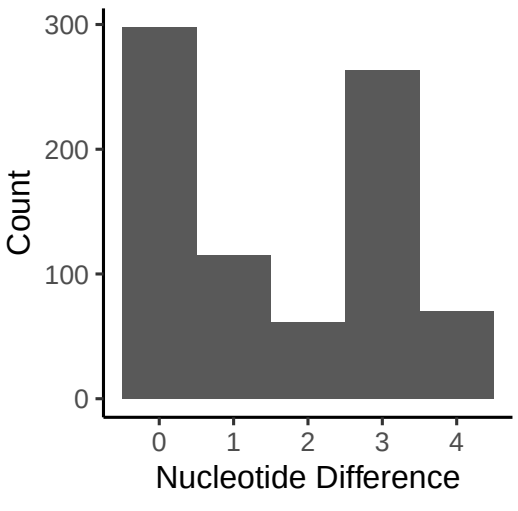
TRBV6−1*bp01

1142 sequences assigned
552 (48.3%) exact matches, in which:
471 unique CDR3
15 unique J



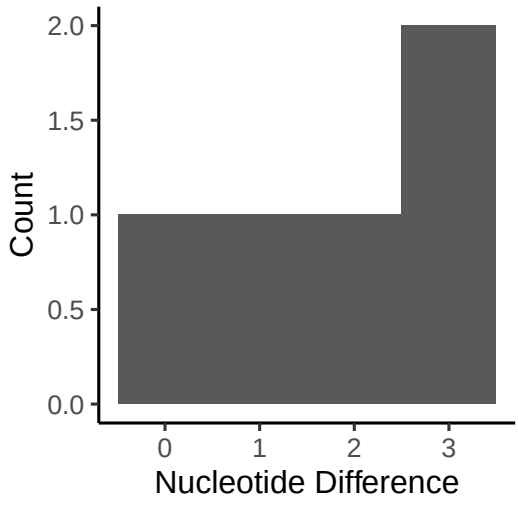
TRBV6−6*bp01

807 sequences assigned
298 (36.9%) exact matches, in which:
265 unique CDR3
15 unique J



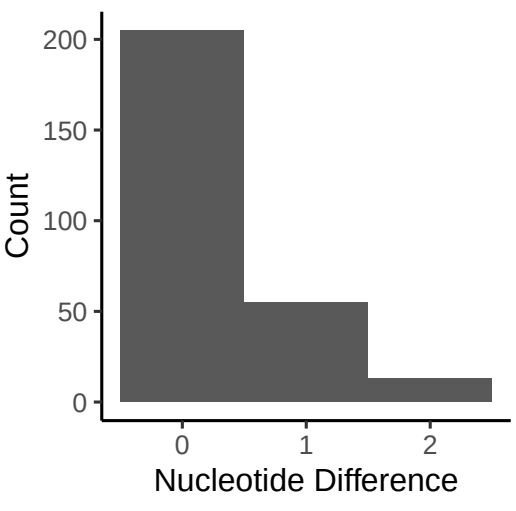
TRBV6−9*bp01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



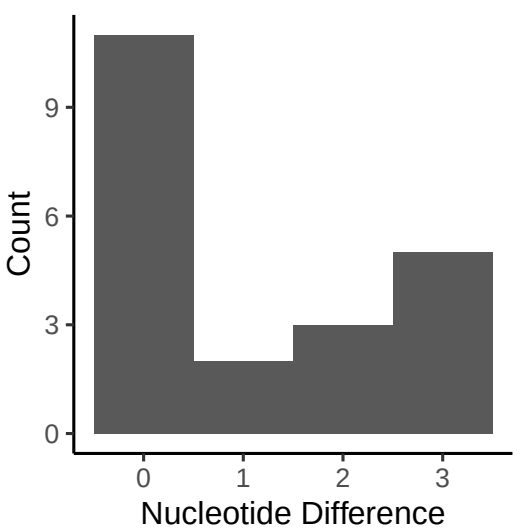
TRBV6−4*bp01

273 sequences assigned
205 (75.1%) exact matches, in which:
158 unique CDR3
15 unique J



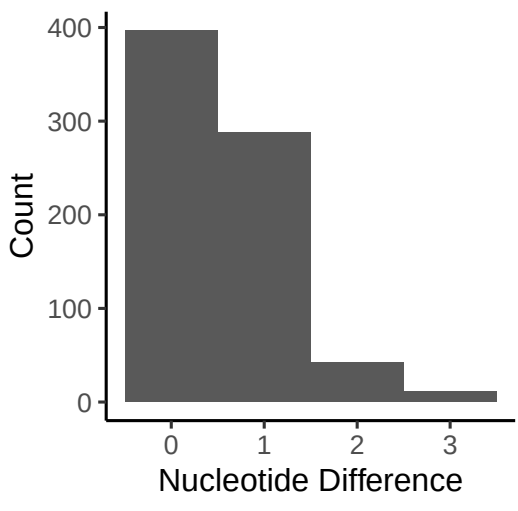
TRBV6−7*bp01

21 sequences assigned
11 (52.4%) exact matches, in which:
9 unique CDR3
8 unique J



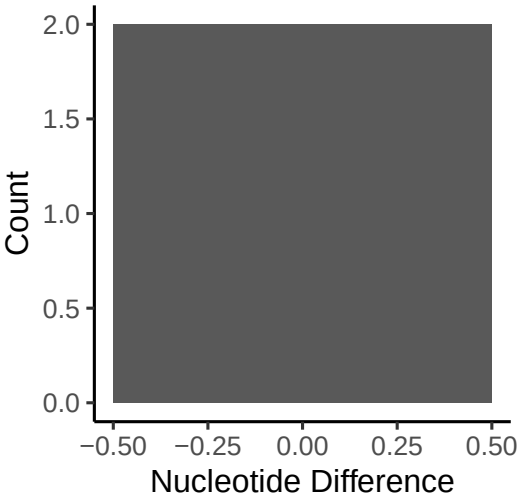
TRBV6−23*bp01

738 sequences assigned
397 (53.8%) exact matches, in which:
340 unique CDR3
15 unique J



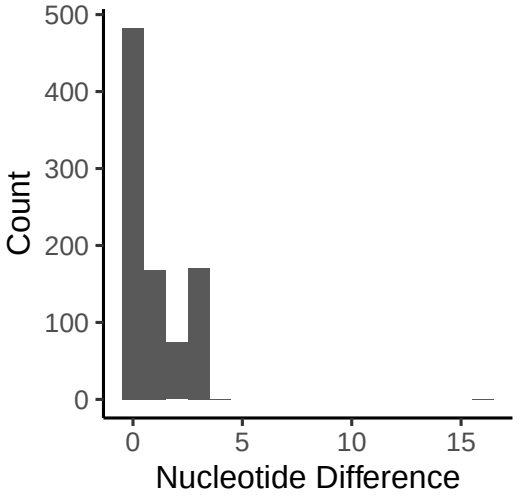
TRBV7−1*bp01

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



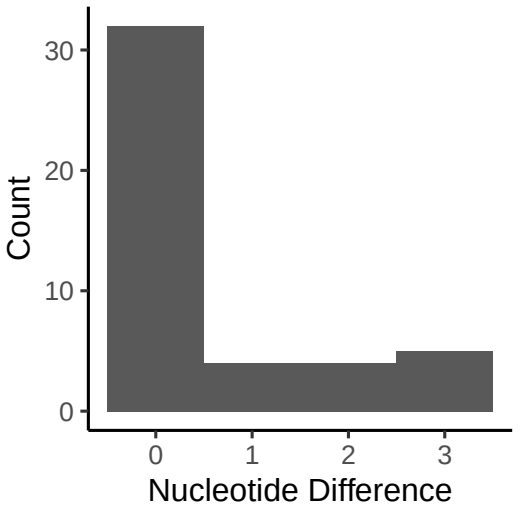
TRBV7−3*bp01

898 sequences assigned
483 (53.8%) exact matches, in which:
334 unique CDR3
15 unique J



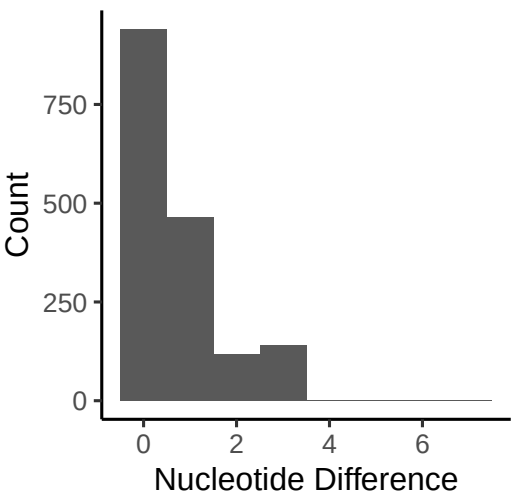
TRBV7−7*bp01

45 sequences assigned
32 (71.1%) exact matches, in which:
22 unique CDR3
11 unique J



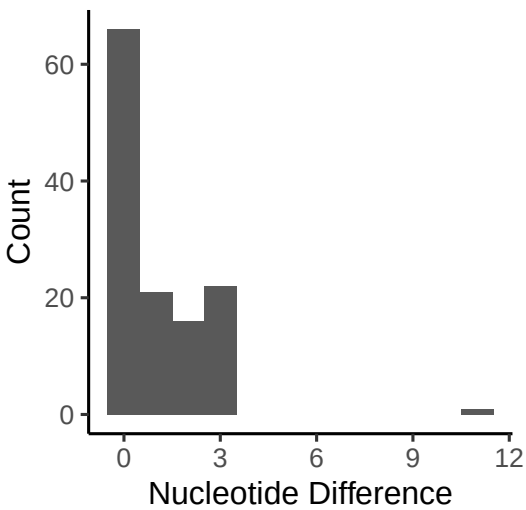
TRBV7−2*bp01

1669 sequences assigned
941 (56.4%) exact matches, in which:
541 unique CDR3
15 unique J



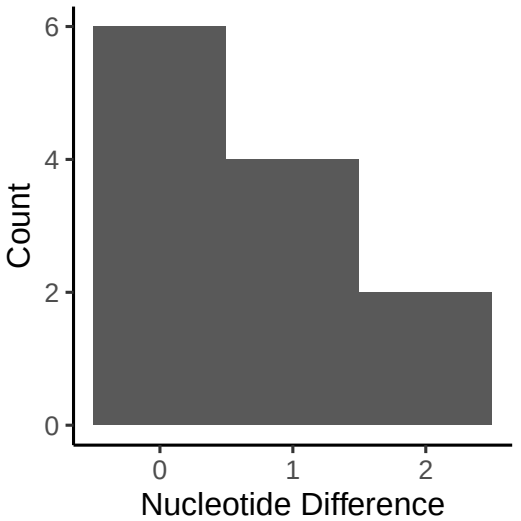
TRBV7−4*bp01

126 sequences assigned
66 (52.4%) exact matches, in which:
45 unique CDR3
10 unique J



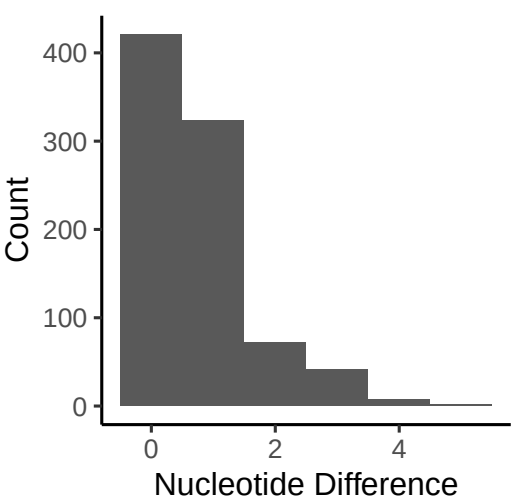
TRBV7−8*bp01

12 sequences assigned
6 (50%) exact matches, in which:
5 unique CDR3
3 unique J



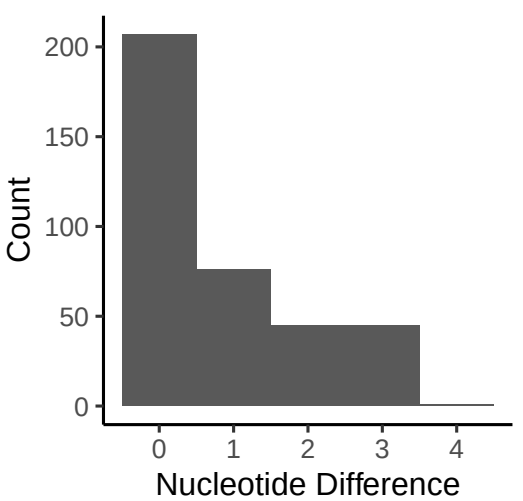
TRBV7−2*bp02

866 sequences assigned
421 (48.6%) exact matches, in which:
266 unique CDR3
15 unique J



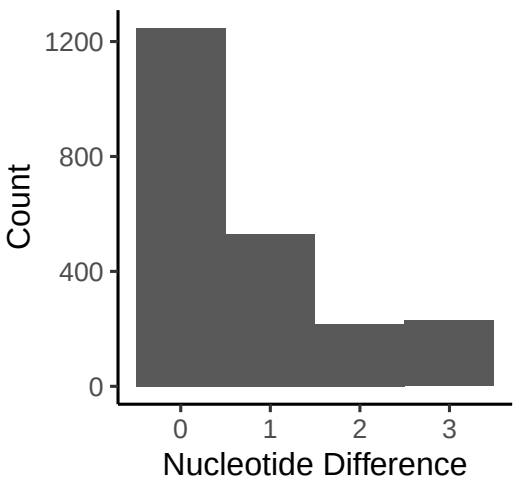
TRBV7−6*bp01

374 sequences assigned
207 (55.3%) exact matches, in which:
118 unique CDR3
13 unique J



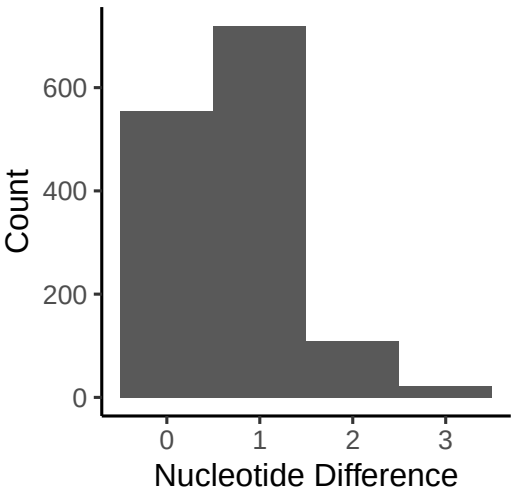
TRBV7−9*bp01

2223 sequences assigned
1247 (56.1%) exact matches, in which:
732 unique CDR3
15 unique J



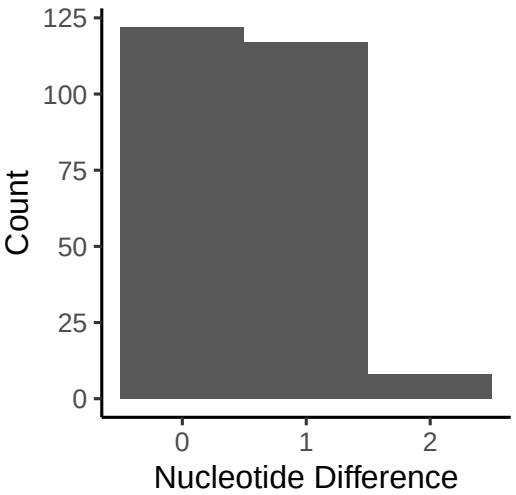
TRBV29−1*bp01

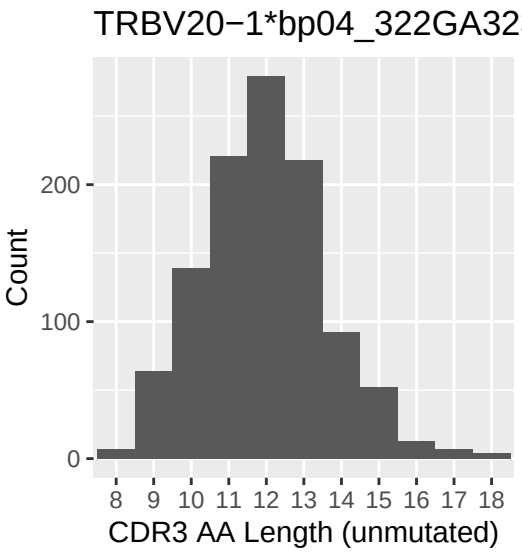
1405 sequences assigned
554 (39.4%) exact matches, in which:
338 unique CDR3
14 unique J

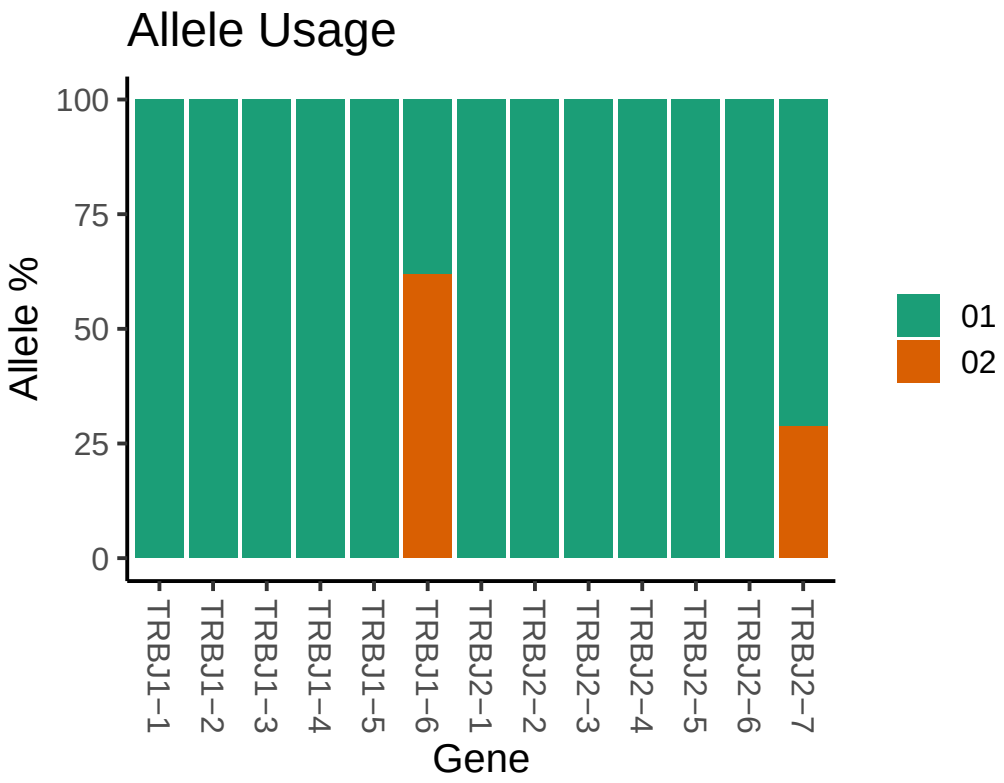


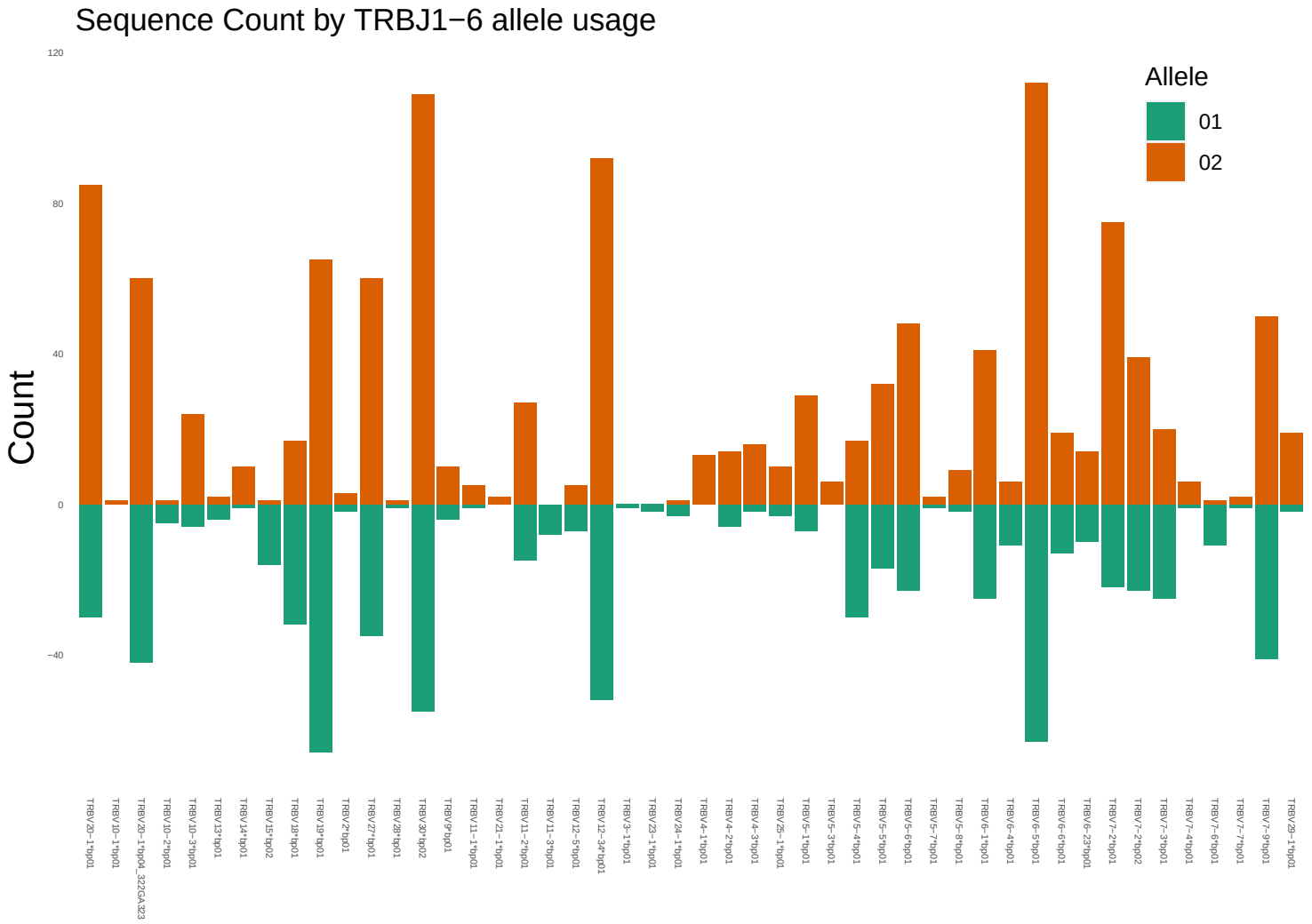
TRBV29−1*bp03

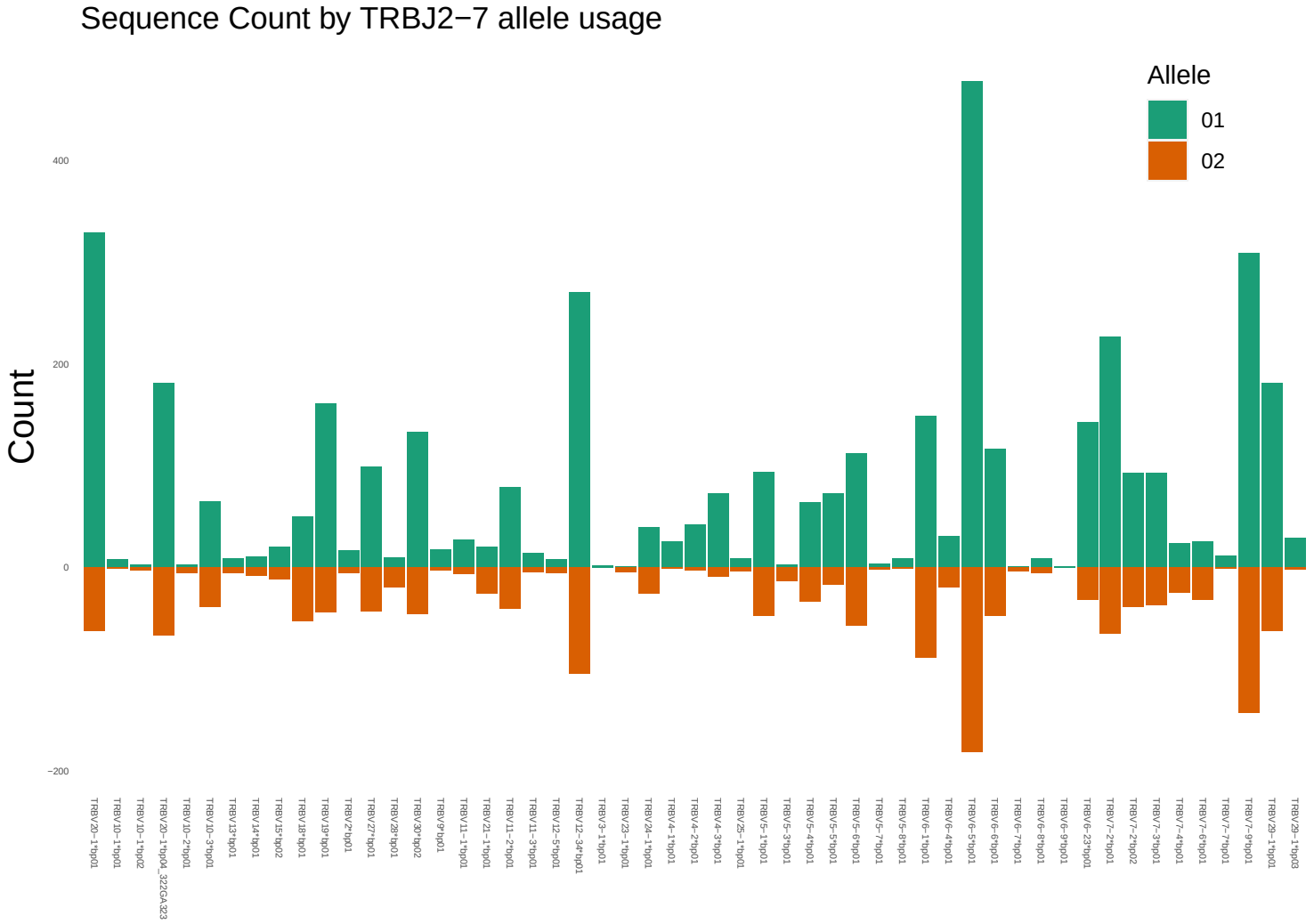
247 sequences assigned
122 (49.4%) exact matches, in which:
88 unique CDR3
10 unique J




TRBV20−1*bp04_322GA323
Count
200
100
0
8
9
10
11
12
13
14
15
16
17
18
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
Gene
01
02


Sequence Count by TRBJ1−6 allele usage
Count
120
80
40
0
−40
Allele
01
02
TRBV20−1*bp01
TRBV10−1*bp01
TRBV20−1*bp04_322C>A323
TRBV10−2*bp01
TRBV10−3*bp01
TRBV13*bp01
TRBV14*bp01
TRBV15*bp02
TRBV18*bp01
TRBV19*bp01
TRBV2*bp01
TRBV27*bp01
TRBV28*bp01
TRBV30*bp02
TRBV9*bp01
TRBV11−1*bp01
TRBV21−1*bp01
TRBV11−2*bp01
TRBV11−3*bp01
TRBV12−5*bp01
TRBV12−3/4*bp01
TRBV3−1*bp01
TRBV23−1*bp01
TRBV24−1*bp01
TRBV4−1*bp01
TRBV4−2*bp01
TRBV4−3*bp01
TRBV25−1*bp01
TRBV5−1*bp01
TRBV5−3*bp01
TRBV5−4*bp01
TRBV5−5*bp01
TRBV5−6*bp01
TRBV5−7*bp01
TRBV5−8*bp01
TRBV6−1*bp01
TRBV6−4*bp01
TRBV6−5*bp01
TRBV6−6*bp01
TRBV6−23*bp01
TRBV7−2*bp01
TRBV7−2*bp02
TRBV7−3*bp01
TRBV7−4*bp01
TRBV7−6*bp01
TRBV7−7*bp01
TRBV7−9*bp01
TRBV29−1*bp01


Sequence Count by TRBJ2−7 allele usage
Allele
01
02
Count
400
200
0
−200
TRBV20−1*01
TRBV10−1*01
TRBV10−1*02
TRBV20−1*04_322GA323
TRBV10−2*01
TRBV10−3*01
TRBV13*01
TRBV14*01
TRBV15*02
TRBV18*01
TRBV19*01
TRBV2*01
TRBV27*01
TRBV28*01
TRBV30*02
TRBV9*01
TRBV11−1*01
TRBV21−1*01
TRBV11−2*01
TRBV11−3*01
TRBV12−5*01
TRBV12−3/4*01
TRBV3−1*01
TRBV23−1*01
TRBV24−1*01
TRBV4−1*01
TRBV4−2*01
TRBV4−3*01
TRBV25−1*01
TRBV5−1*01
TRBV5−3*01
TRBV5−4*01
TRBV5−5*01
TRBV5−6*01
TRBV5−7*01
TRBV5−8*01
TRBV6−1*01
TRBV6−4*01
TRBV6−5*01
TRBV6−6*01
TRBV6−7*01
TRBV6−8*01
TRBV6−9*01
TRBV6−23*01
TRBV7−2*01
TRBV7−3*01
TRBV7−4*01
TRBV7−6*01
TRBV7−7*01
TRBV7−9*01
TRBV29−1*01
TRBV29−1*03

Warning: sequence(s) for allele(s) TRAV13−1*02 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV8−2*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV8−1*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV23/DV6*02 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV10*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV14/DV4*02 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV8−3*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV9−1*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV39*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV2*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV25*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV36/DV7*04 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV30*01 can't be found in the reference set or the novel alleles file.

Warning: sequence(s) for allele(s) TRAV40*01 can't be found in the reference set or the novel alleles file.

Warning − no inferred sequences found.

Warning − no inferred sequences found.

Warning − no inferred sequences found