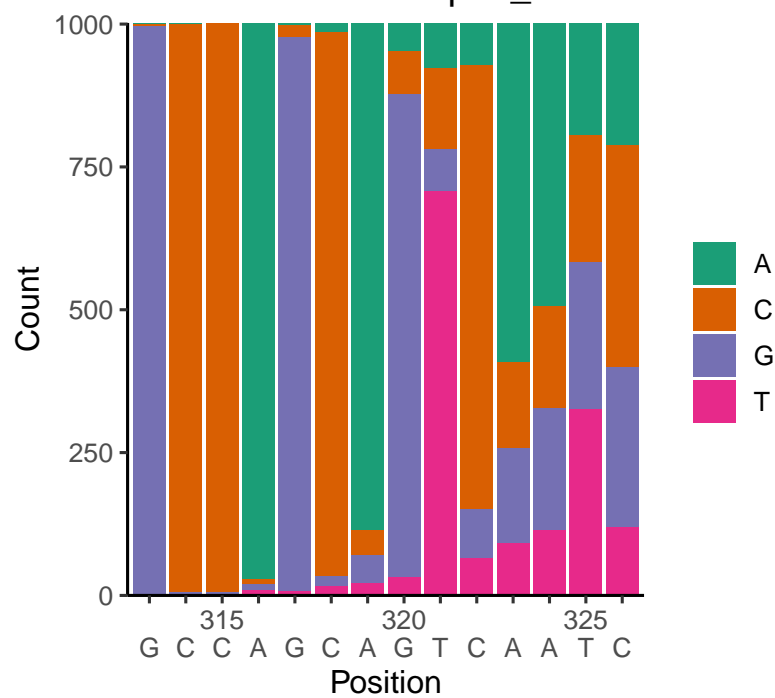
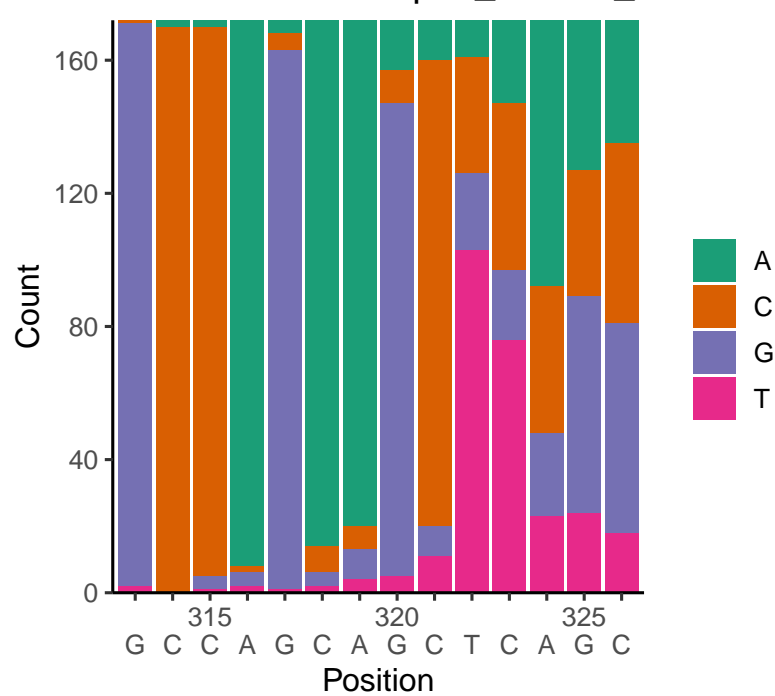


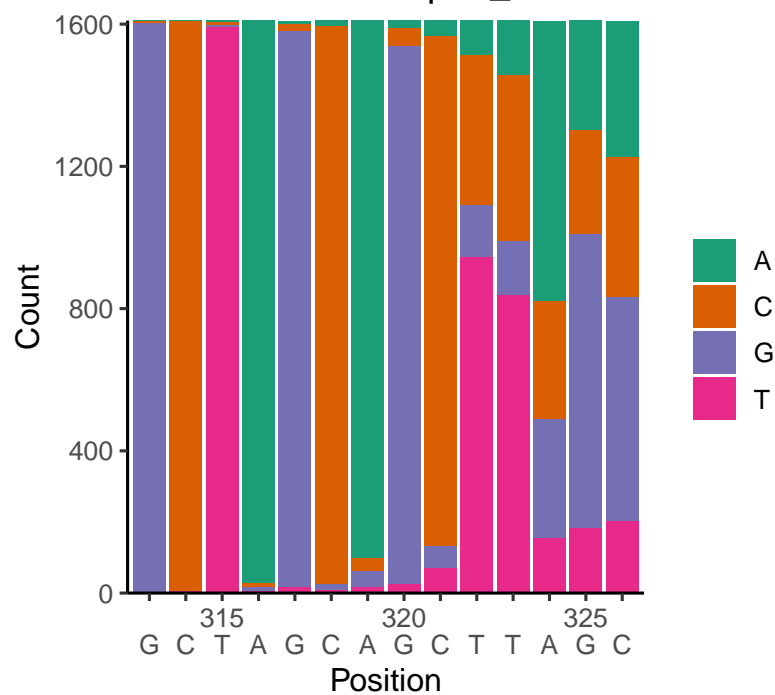
Gene TRBV23-1*ap01_T304C



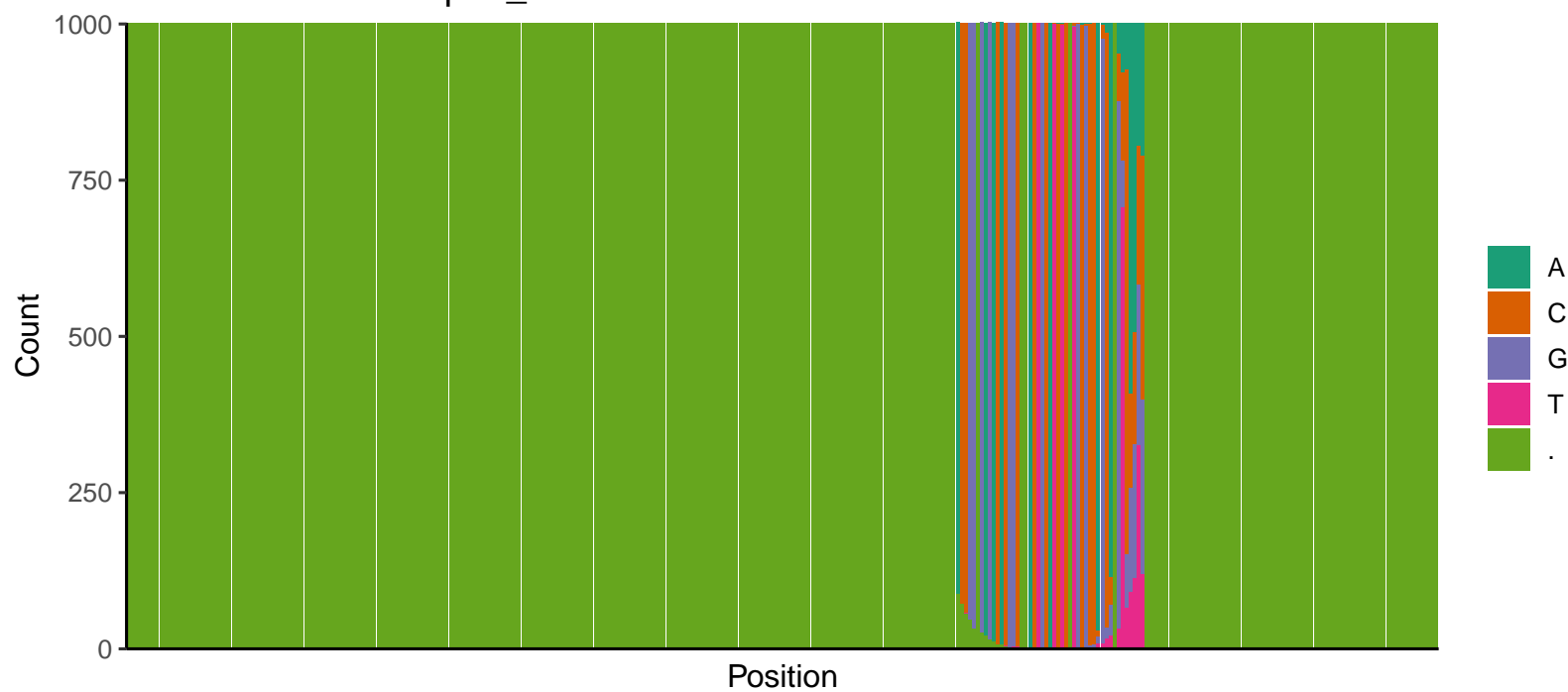
Gene TRBV7-1*ap01_G291C_T296C



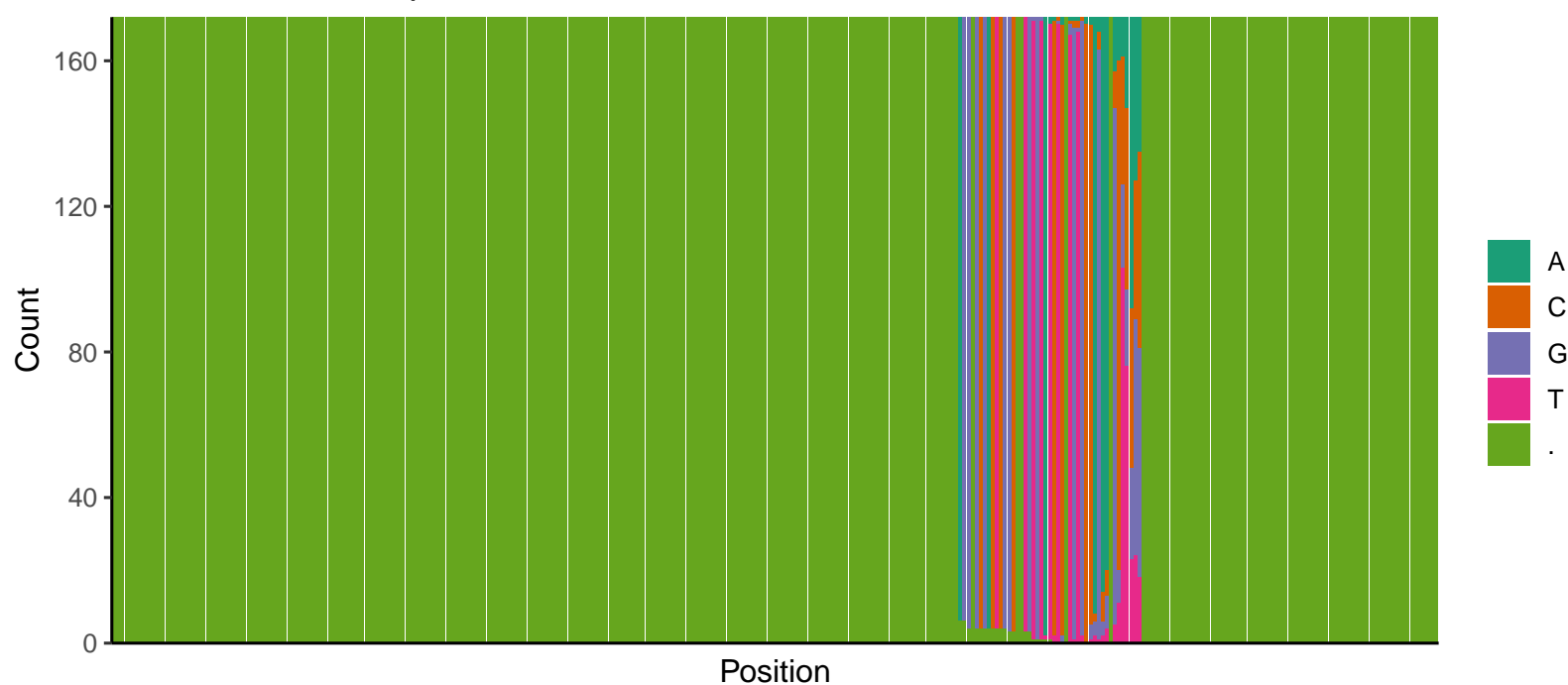
Gene TRBV7-7*ap01_C315T



Gene TRBV23-1*ap01_T304C



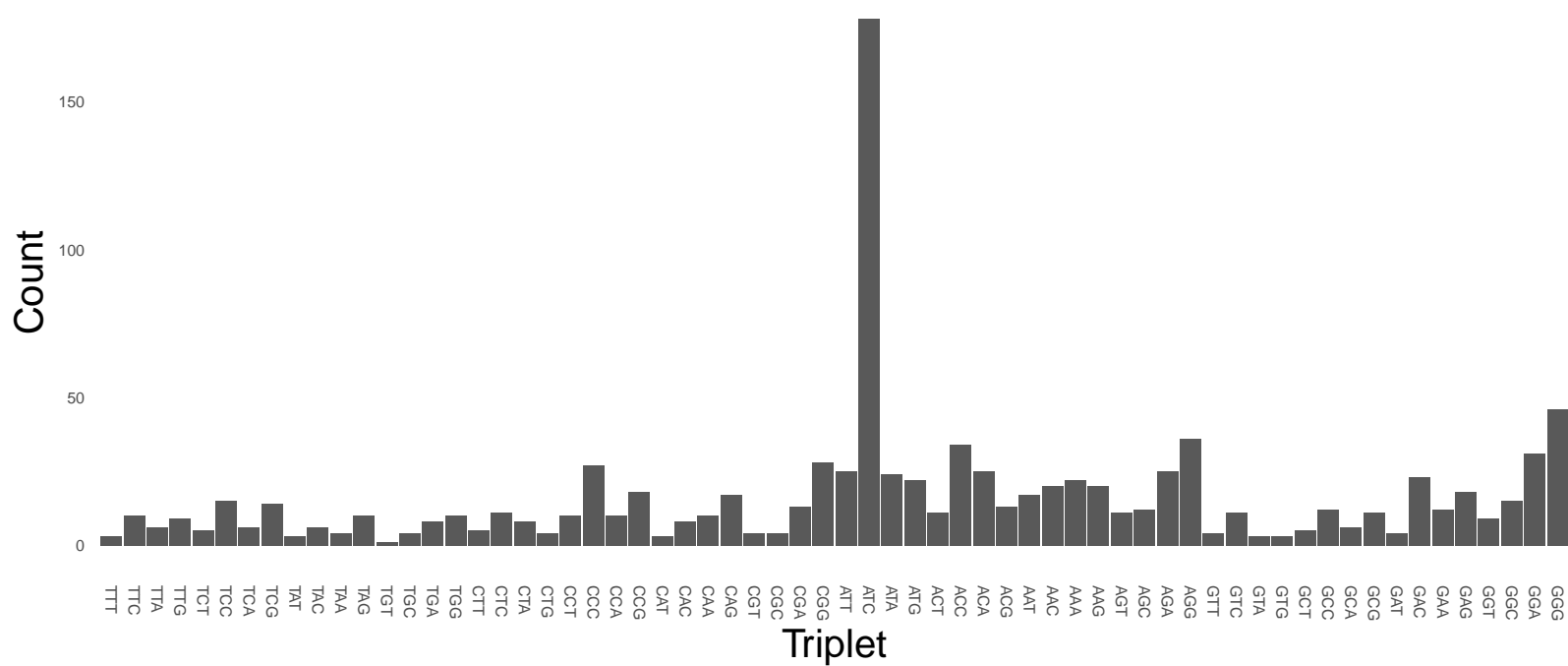
Gene TRBV7-1*ap01_G291C_T296C



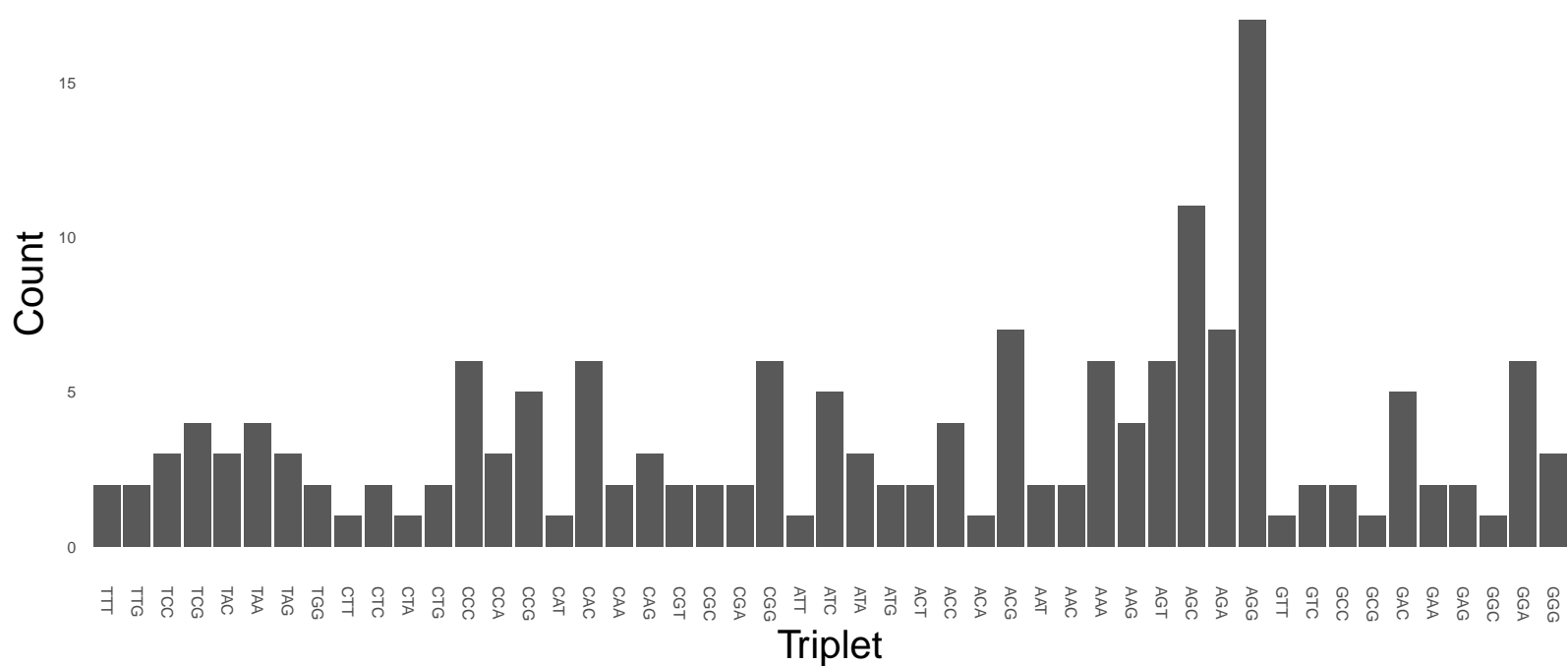
Gene TRBV7-7*ap01_C315T



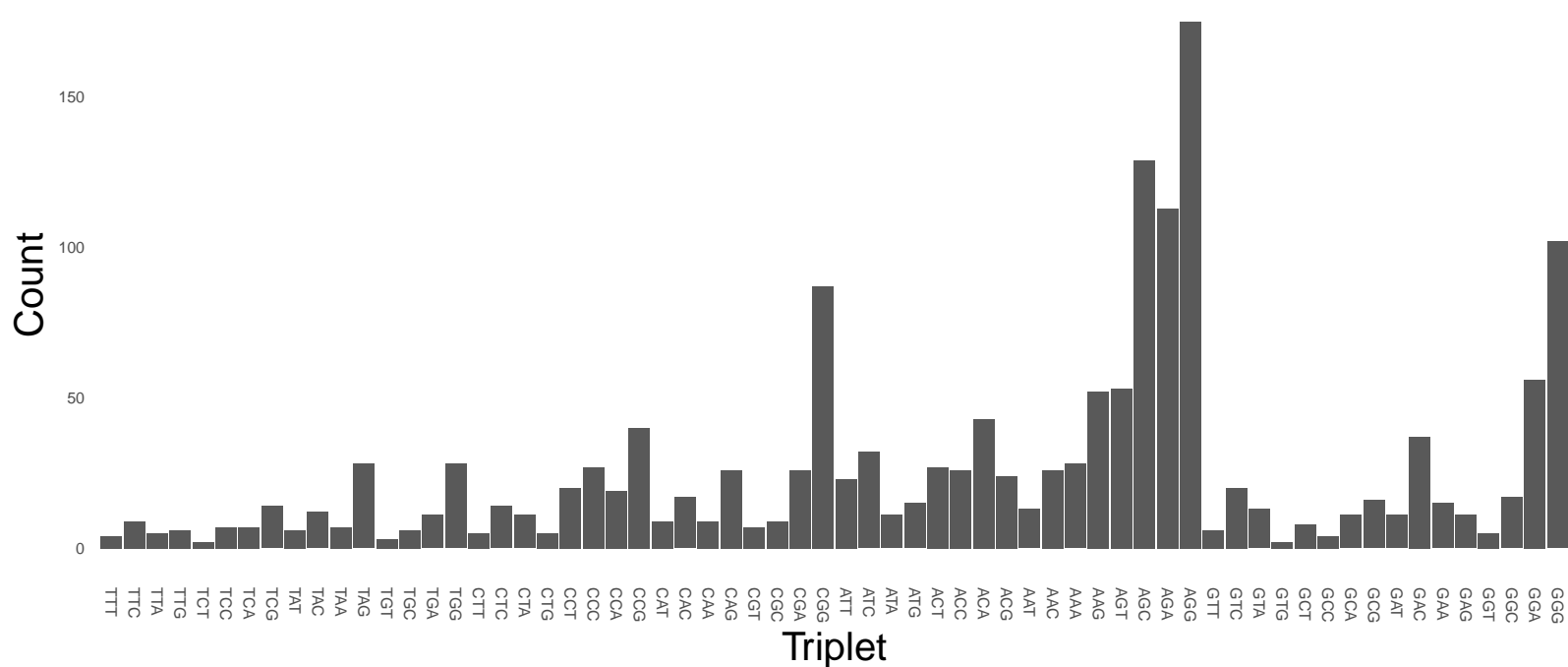
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



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

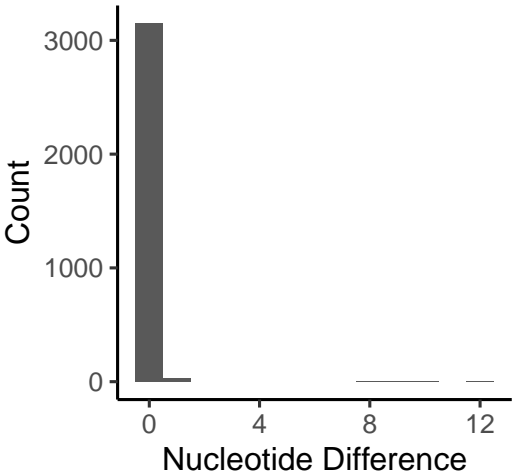


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



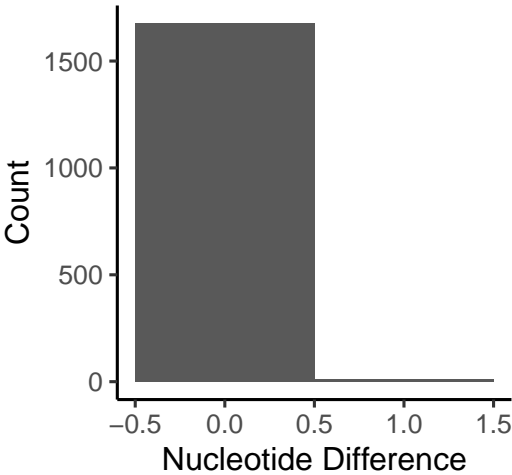
TRBV10-1*ap01

3182 sequences assigned
3149 (99%) exact matches, in which:
3113 unique CDR3
13 unique J



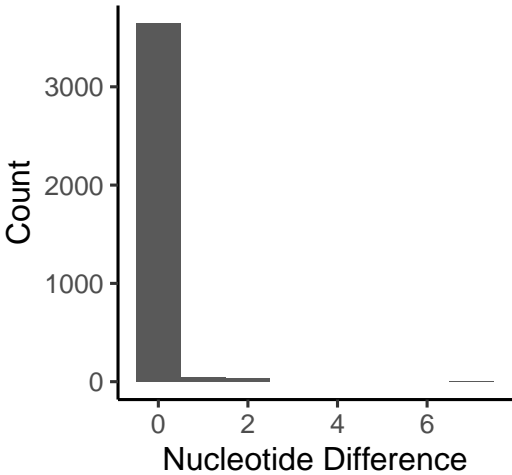
TRBV10-2*ap01

1689 sequences assigned
1676 (99.2%) exact matches, in which:
1660 unique CDR3
13 unique J



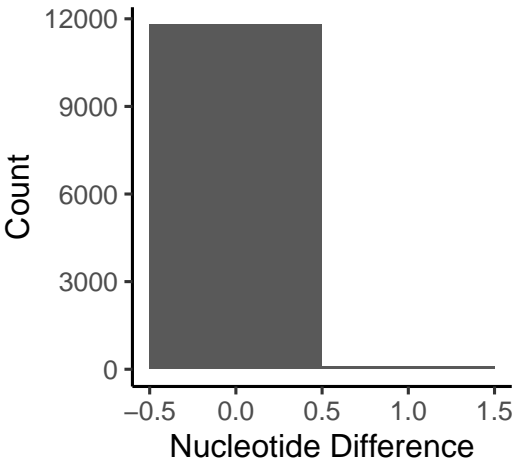
TRBV13*ap01

3728 sequences assigned
3645 (97.8%) exact matches, in which:
3574 unique CDR3
13 unique J



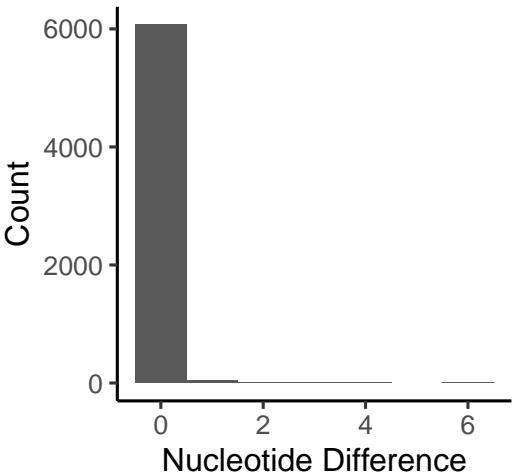
TRBV20-1*ap01

11898 sequences assigned
11806 (99.2%) exact matches, in which:
11711 unique CDR3
13 unique J



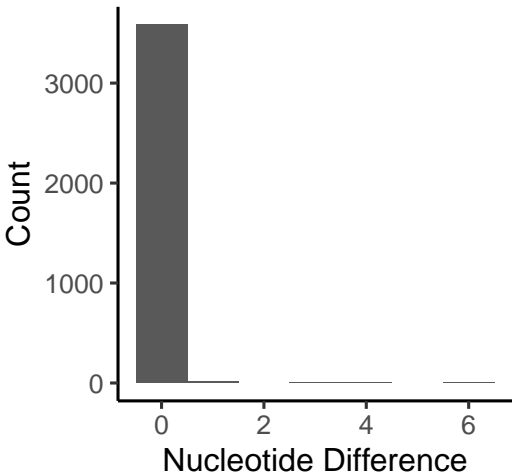
TRBV10-3*ap01

6124 sequences assigned
6071 (99.1%) exact matches, in which:
5995 unique CDR3
13 unique J



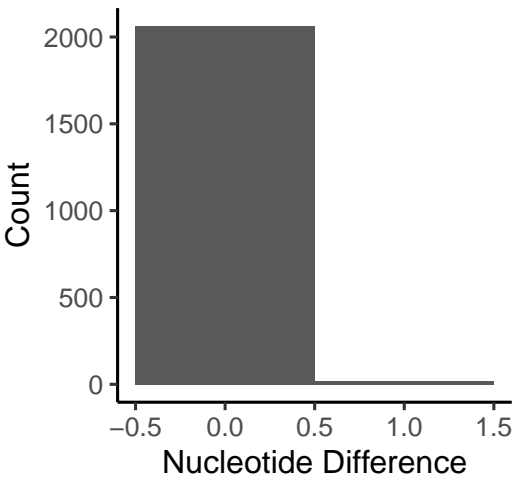
TRBV14*ap01

3599 sequences assigned
3584 (99.6%) exact matches, in which:
3559 unique CDR3
13 unique J



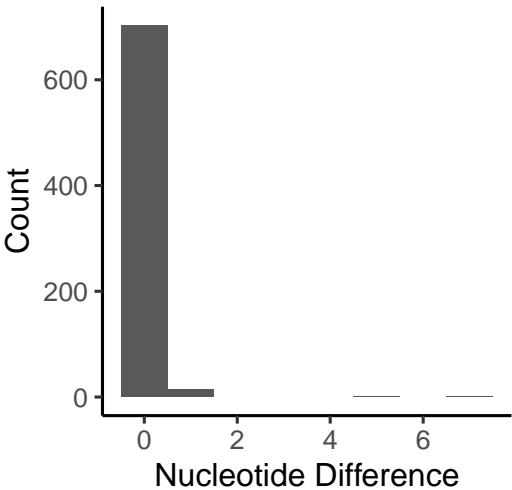
TRBV20-1*ap02

2082 sequences assigned
2063 (99.1%) exact matches, in which:
2048 unique CDR3
13 unique J



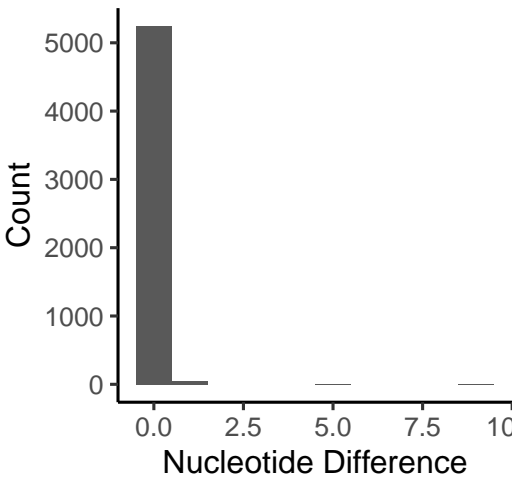
TRBV1*ap01

719 sequences assigned
703 (97.8%) exact matches, in which:
683 unique CDR3
13 unique J



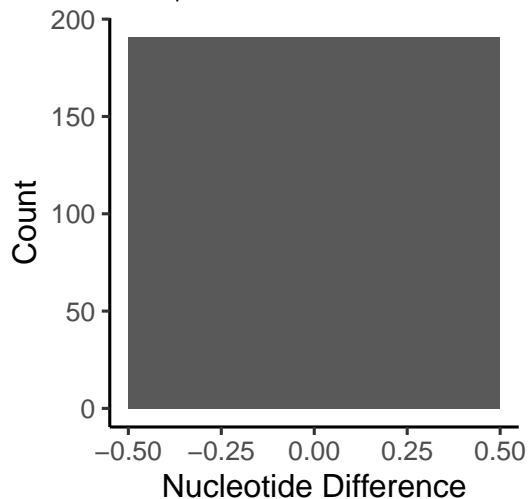
TRBV15*ap02

5292 sequences assigned
5245 (99.1%) exact matches, in which:
5184 unique CDR3
13 unique J



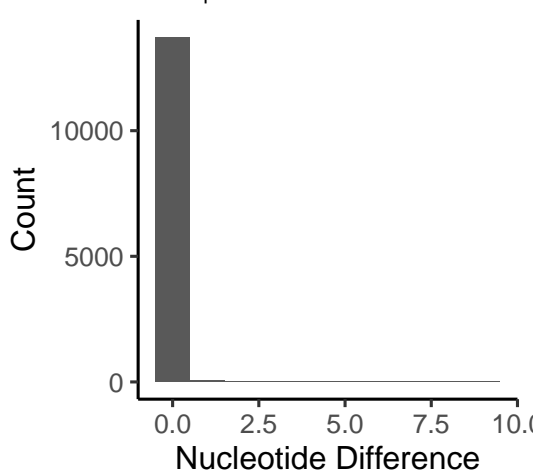
TRBV16*ap01

191 sequences assigned
191 (100%) exact matches, in which:
191 unique CDR3
13 unique J



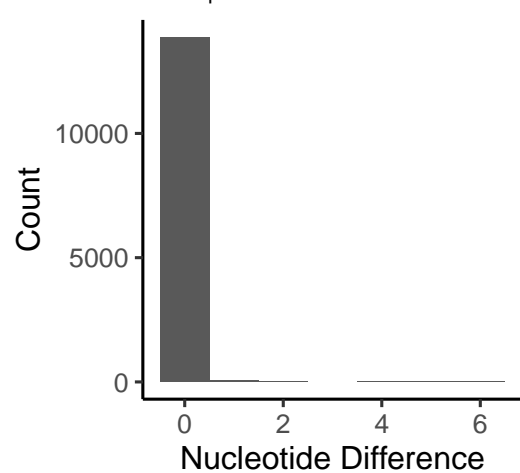
TRBV19*ap01

13823 sequences assigned
13723 (99.3%) exact matches, in which:
13669 unique CDR3
13 unique J



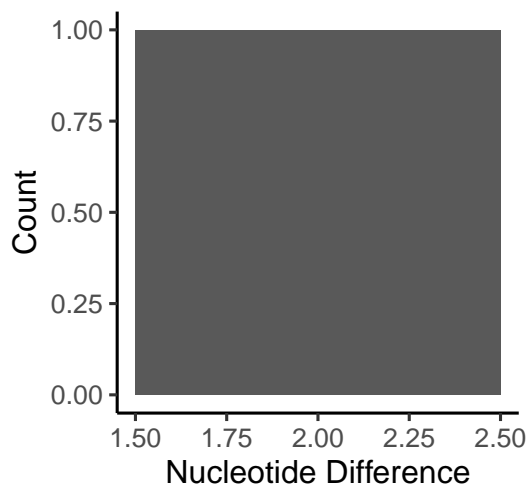
TRBV28*ap01

13958 sequences assigned
13874 (99.4%) exact matches, in which:
13774 unique CDR3
13 unique J



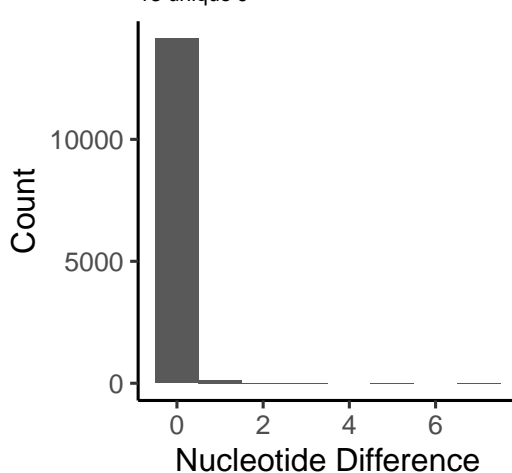
TRBV17*ap01

1 sequences assigned
No exact matches.



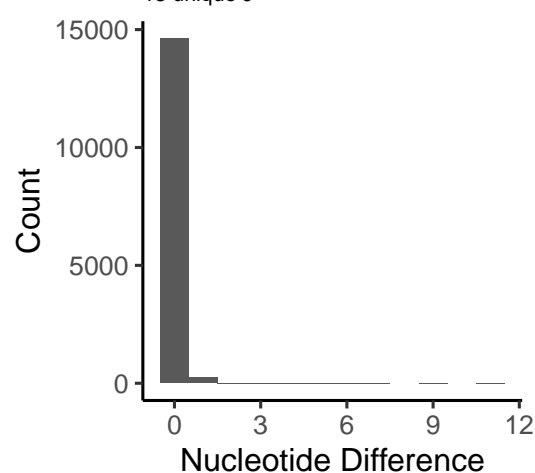
TRBV2*ap01

14289 sequences assigned
14136 (98.9%) exact matches, in which:
13862 unique CDR3
13 unique J



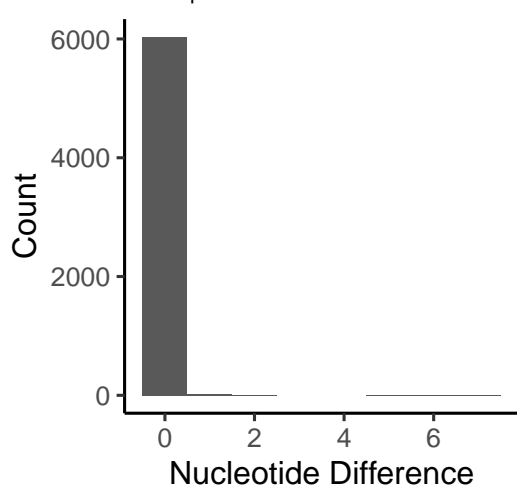
TRBV30*ap01

14886 sequences assigned
14624 (98.2%) exact matches, in which:
14322 unique CDR3
13 unique J



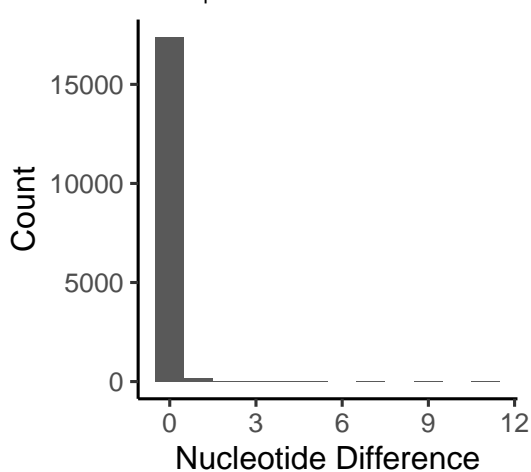
TRBV18*ap01

6055 sequences assigned
6032 (99.6%) exact matches, in which:
6017 unique CDR3
13 unique J



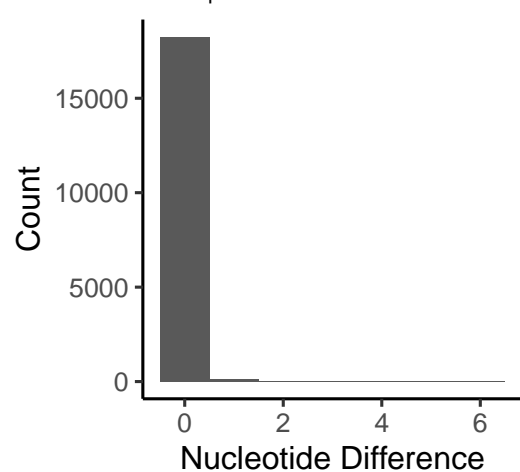
TRBV27*ap01

17583 sequences assigned
17401 (99%) exact matches, in which:
17159 unique CDR3
13 unique J



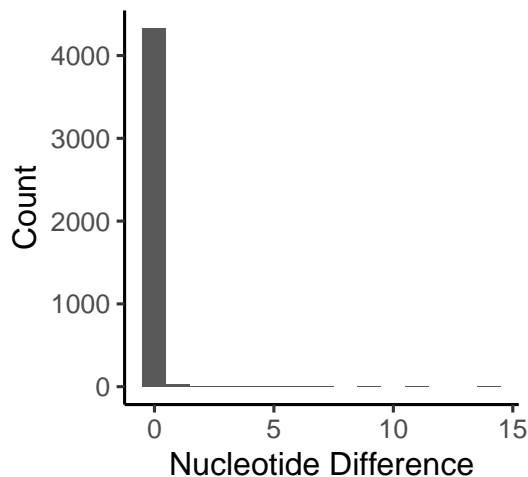
TRBV9*ap01

18398 sequences assigned
18255 (99.2%) exact matches, in which:
18075 unique CDR3
13 unique J



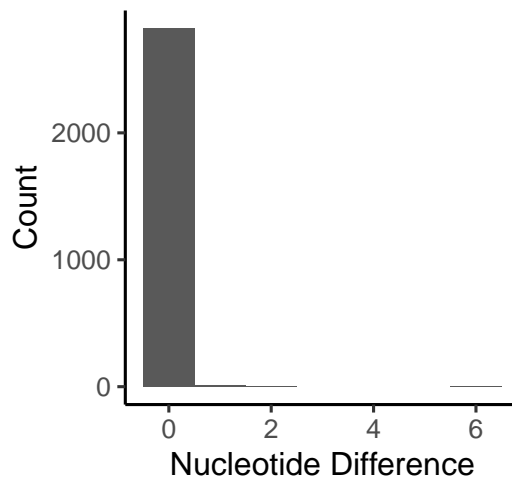
TRBV21-1*ap01

4390 sequences assigned
4328 (98.6%) exact matches, in which:
4306 unique CDR3
13 unique J



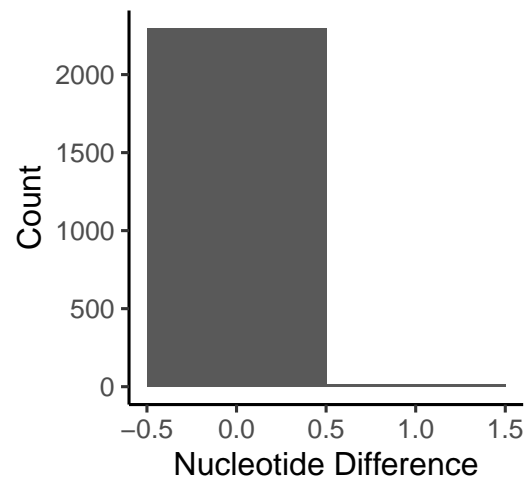
TRBV11-3*ap01

2836 sequences assigned
2823 (99.5%) exact matches, in which:
2803 unique CDR3
13 unique J



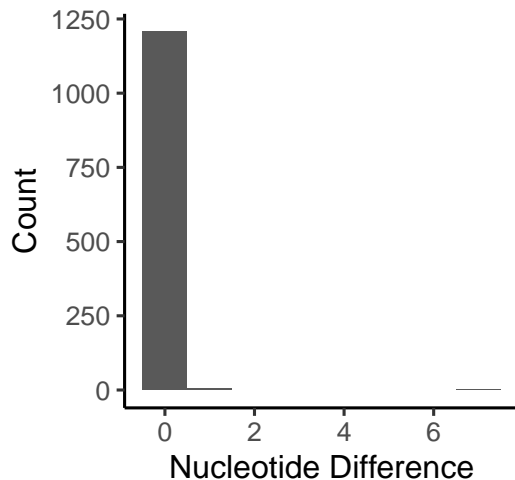
TRBV12-5*ap01

2315 sequences assigned
2296 (99.2%) exact matches, in which:
2277 unique CDR3
13 unique J



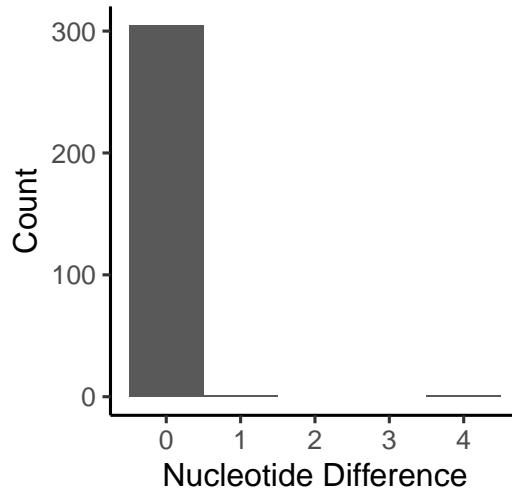
TRBV11-1*ap01

1213 sequences assigned
1207 (99.5%) exact matches, in which:
1204 unique CDR3
13 unique J



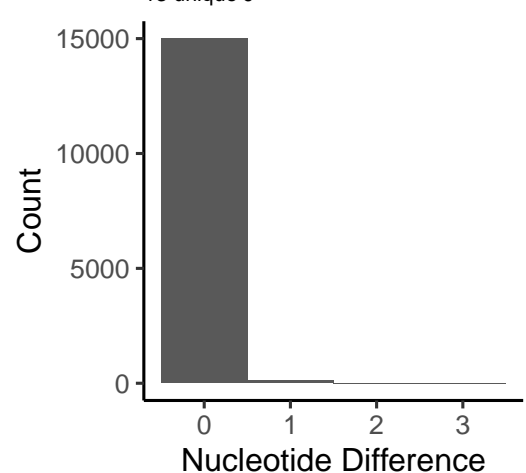
TRBV12-1*ap01

307 sequences assigned
305 (99.3%) exact matches, in which:
303 unique CDR3
13 unique J



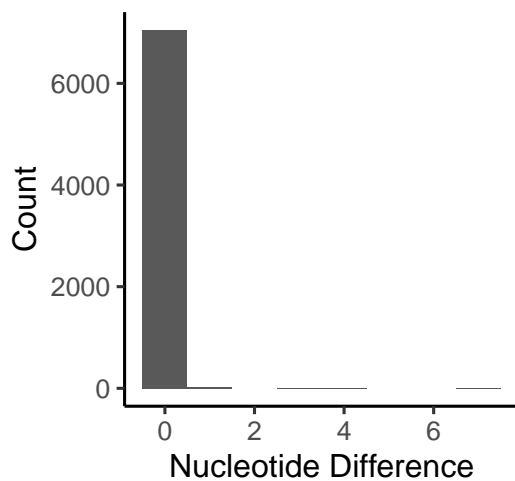
TRBV12-34*ap01

15123 sequences assigned
15006 (99.2%) exact matches, in which:
14846 unique CDR3
13 unique J



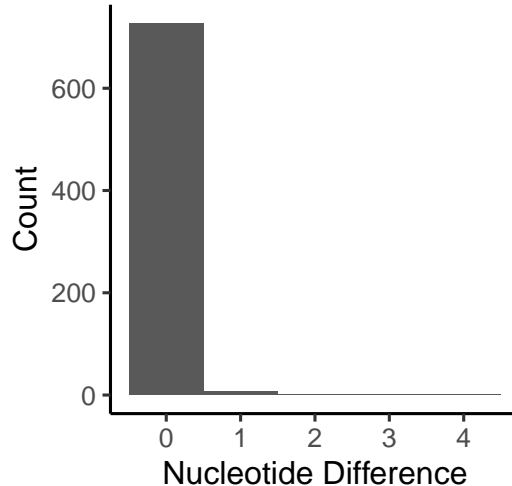
TRBV11-2*ap01

7080 sequences assigned
7049 (99.6%) exact matches, in which:
7018 unique CDR3
13 unique J



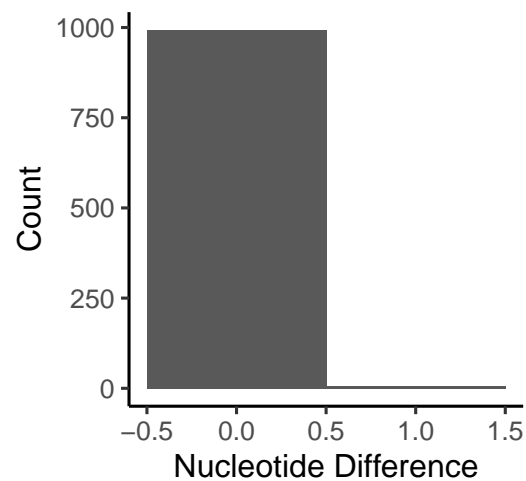
TRBV12-2*ap01

737 sequences assigned
727 (98.6%) exact matches, in which:
725 unique CDR3
13 unique J



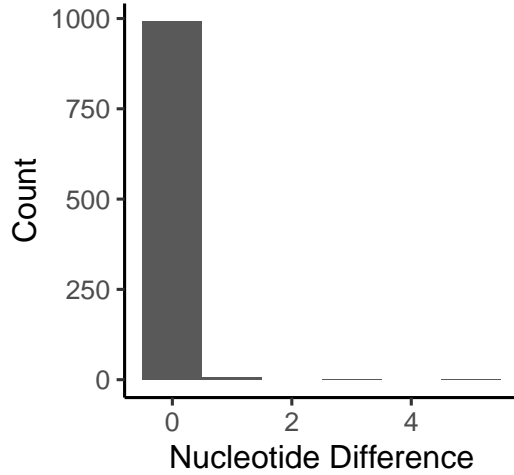
TRBV23-1*ap01

999 sequences assigned
993 (99.4%) exact matches, in which:
983 unique CDR3
13 unique J



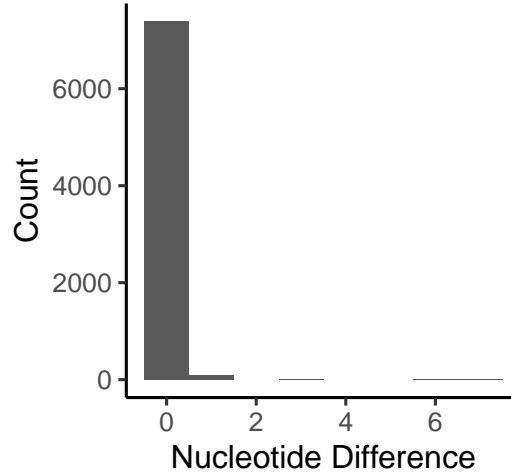
TRBV23-1*ap01_T304C

1002 sequences assigned
992 (99%) exact matches, in which:
988 unique CDR3
13 unique J



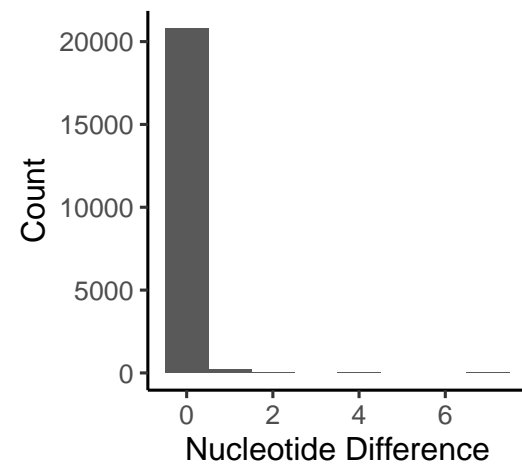
TRBV4-1*ap01

7476 sequences assigned
7387 (98.8%) exact matches, in which:
7267 unique CDR3
13 unique J



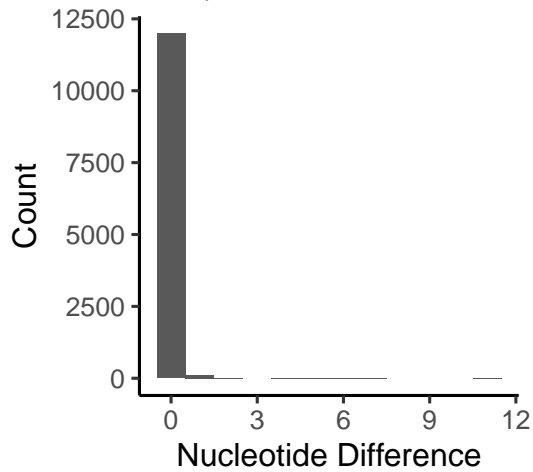
TRBV5-1*ap01

21006 sequences assigned
20811 (99.1%) exact matches, in which:
20403 unique CDR3
13 unique J



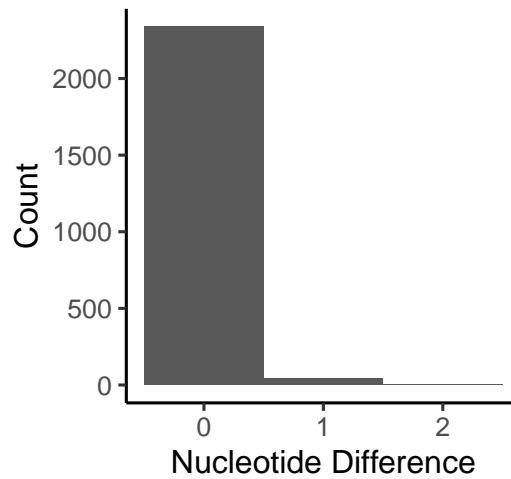
TRBV3-12*ap01

12124 sequences assigned
11992 (98.9%) exact matches, in which:
11834 unique CDR3
13 unique J



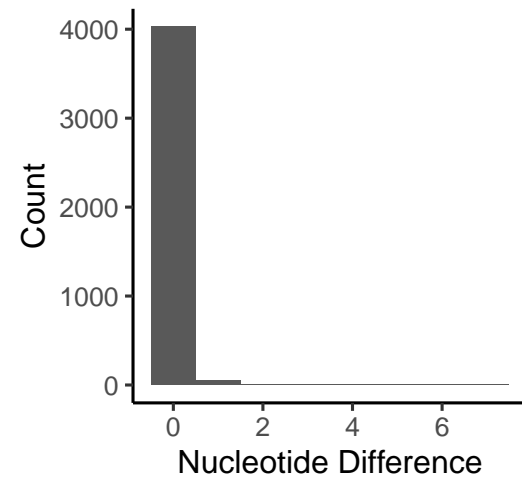
TRBV4-2*ap01

2381 sequences assigned
2338 (98.2%) exact matches, in which:
2303 unique CDR3
13 unique J



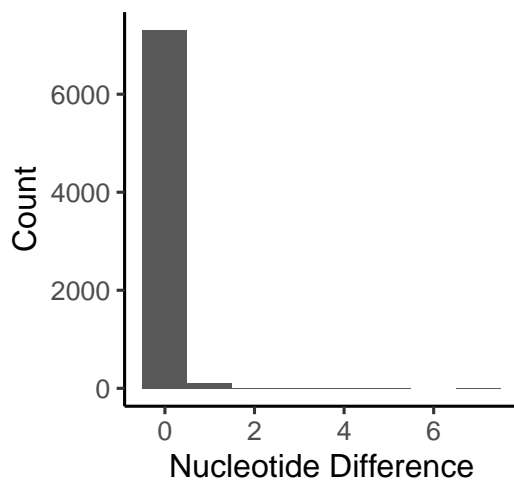
TRBV25-1*ap01

4087 sequences assigned
4028 (98.6%) exact matches, in which:
3950 unique CDR3
13 unique J



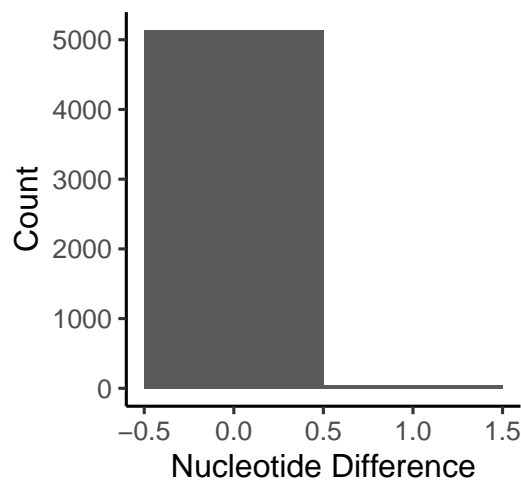
TRBV24-1*ap01

7429 sequences assigned
7309 (98.4%) exact matches, in which:
7212 unique CDR3
13 unique J



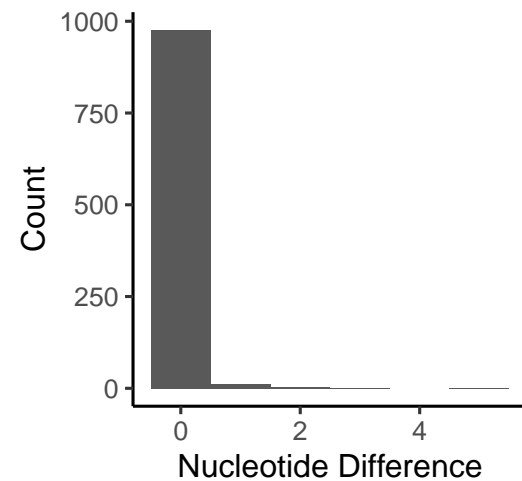
TRBV4-3*ap01

5184 sequences assigned
5139 (99.1%) exact matches, in which:
5061 unique CDR3
13 unique J



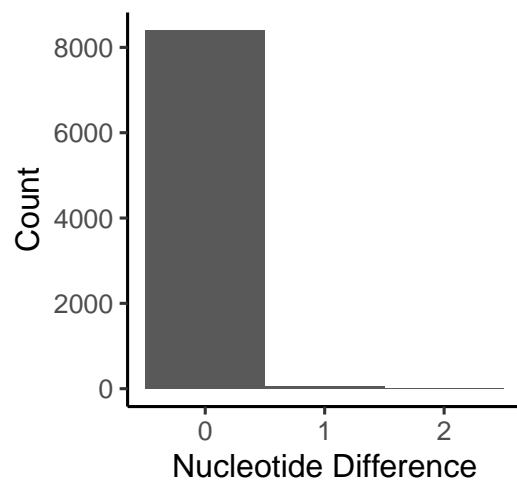
TRBV5-3*ap01

993 sequences assigned
976 (98.3%) exact matches, in which:
973 unique CDR3
13 unique J



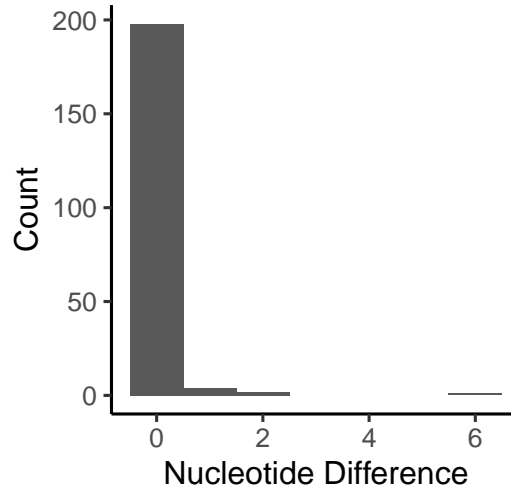
TRBV5-4*ap01

8468 sequences assigned
8398 (99.2%) exact matches, in which:
8275 unique CDR3
13 unique J



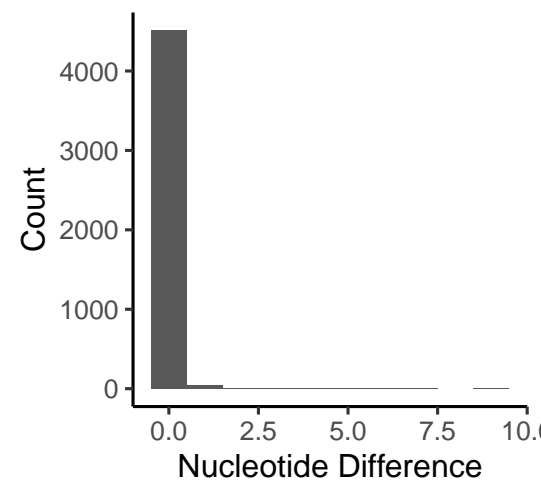
TRBV5-7*ap01

205 sequences assigned
198 (96.6%) exact matches, in which:
192 unique CDR3
13 unique J



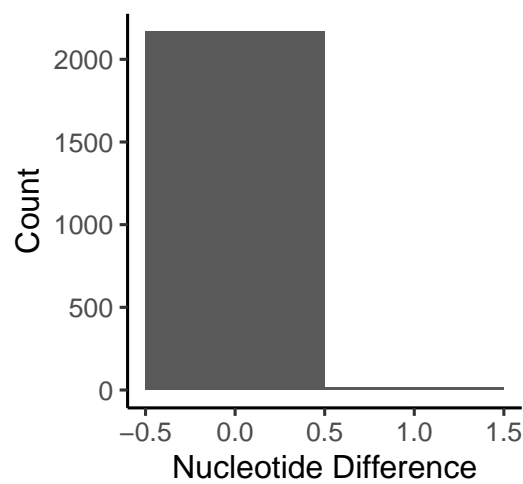
TRBV6-4*ap01

4568 sequences assigned
4511 (98.8%) exact matches, in which:
4470 unique CDR3
13 unique J



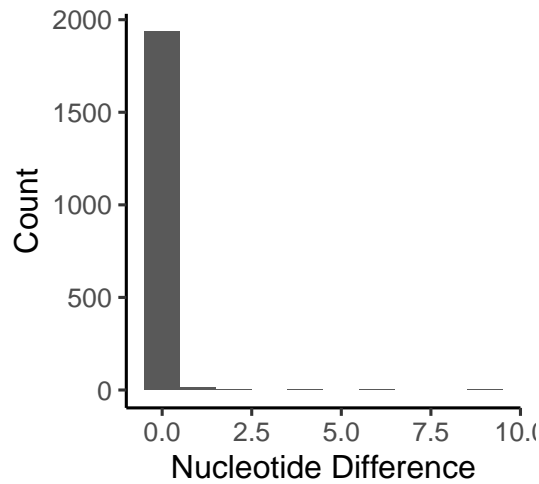
TRBV5-5*ap01

2182 sequences assigned
2167 (99.3%) exact matches, in which:
2160 unique CDR3
13 unique J



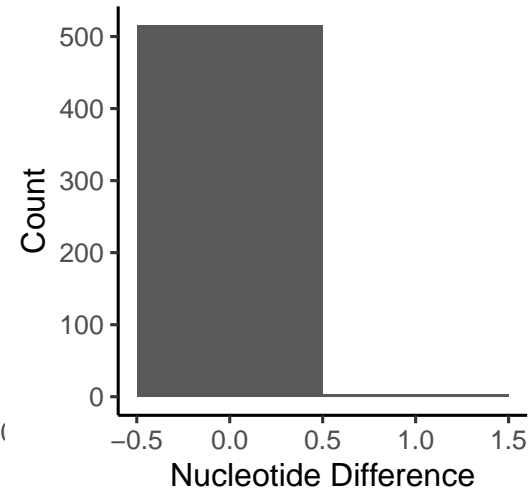
TRBV5-8*ap01

1953 sequences assigned
1935 (99.1%) exact matches, in which:
1923 unique CDR3
13 unique J



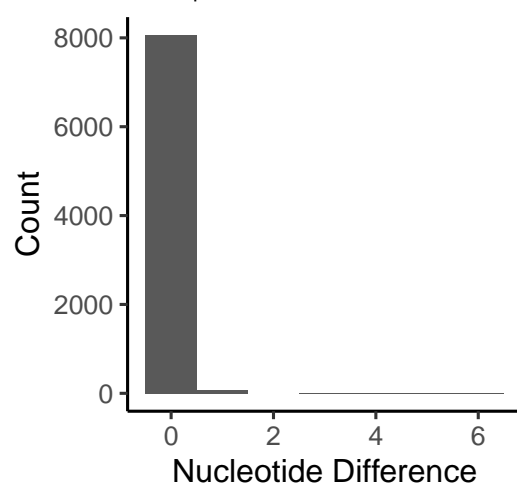
TRBV6-7*ap01

520 sequences assigned
516 (99.2%) exact matches, in which:
503 unique CDR3
13 unique J



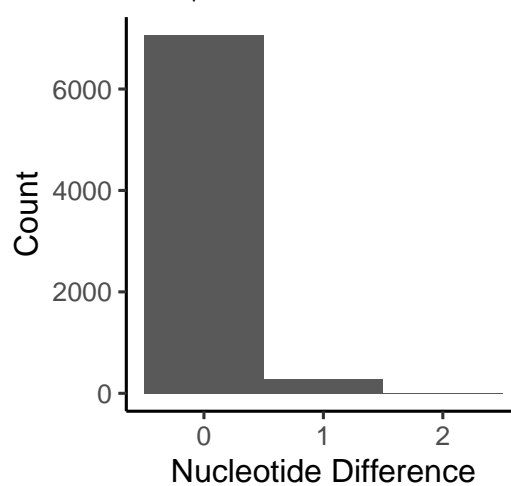
TRBV5-6*ap01

8151 sequences assigned
8063 (98.9%) exact matches, in which:
7858 unique CDR3
13 unique J



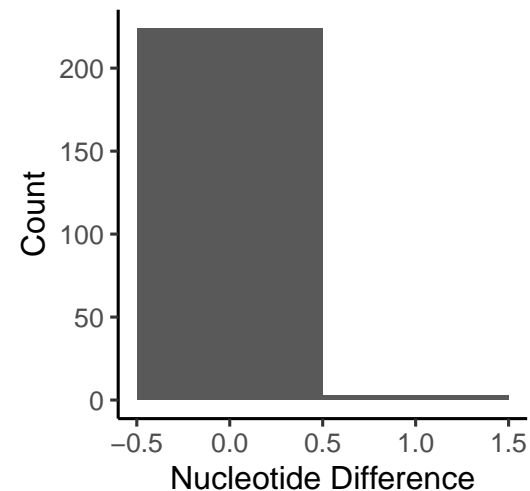
TRBV6-1*ap01

7349 sequences assigned
7064 (96.1%) exact matches, in which:
6924 unique CDR3
13 unique J



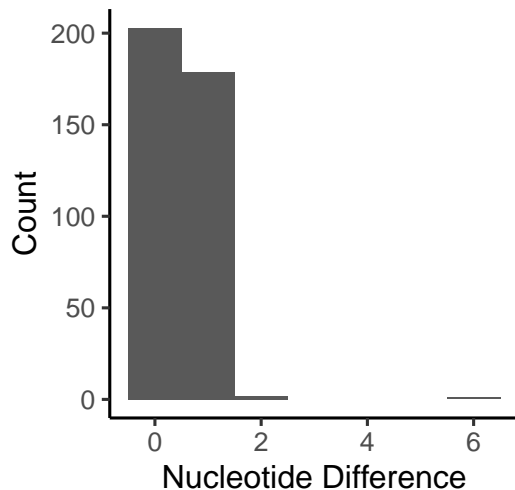
TRBV6-8*ap01

227 sequences assigned
224 (98.7%) exact matches, in which:
220 unique CDR3
13 unique J



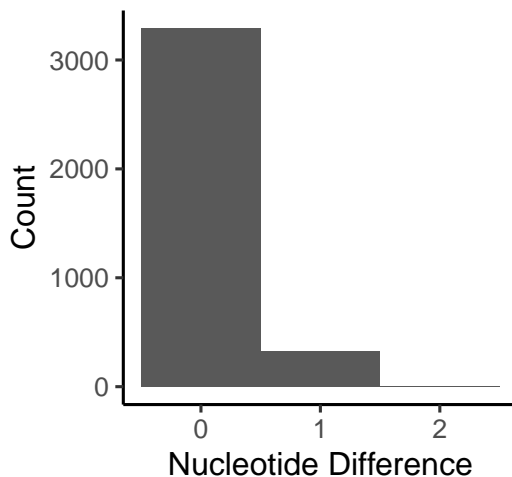
TRBV6–9*ap01

385 sequences assigned
203 (52.7%) exact matches, in which:
199 unique CDR3
13 unique J



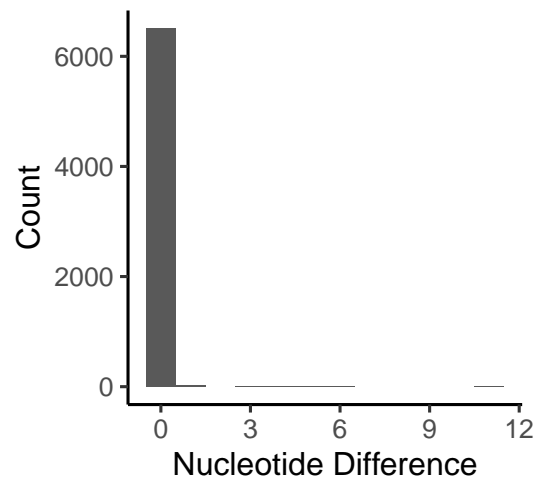
TRBV6–56*ap02

3621 sequences assigned
3290 (90.9%) exact matches, in which:
3220 unique CDR3
13 unique J



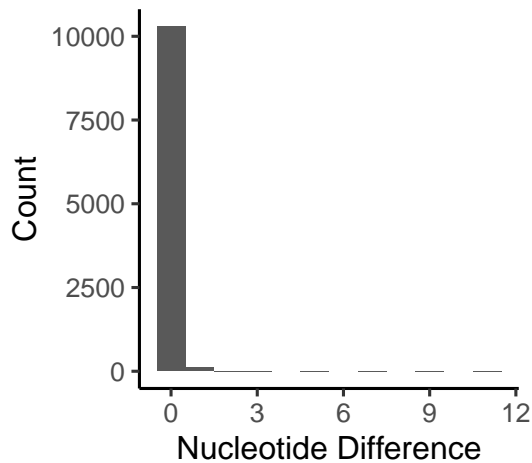
TRBV7–3*ap01

6547 sequences assigned
6507 (99.4%) exact matches, in which:
6459 unique CDR3
13 unique J



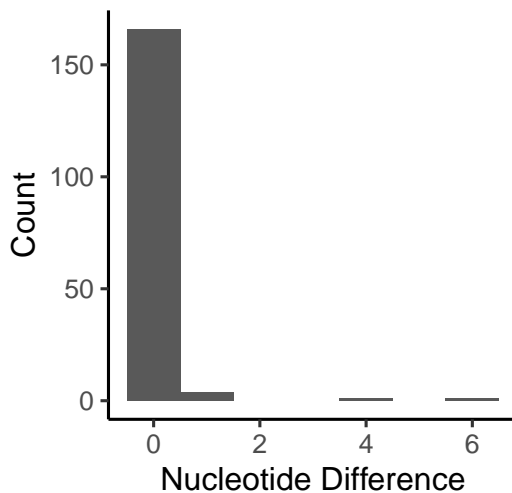
TRBV6–23*ap01

10414 sequences assigned
10293 (98.8%) exact matches, in which:
10065 unique CDR3
13 unique J



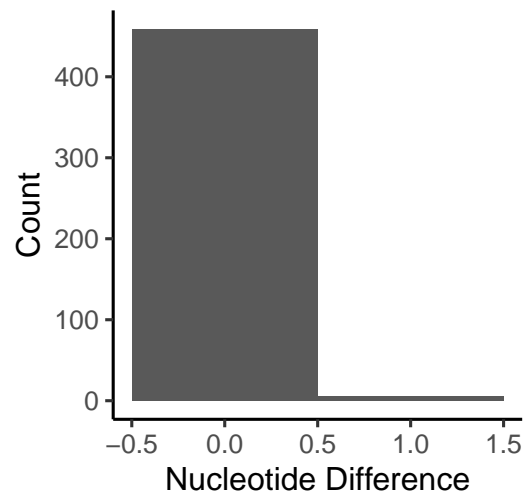
TRBV7–1*ap01_G291C_

172 sequences assigned
166 (96.5%) exact matches, in which:
165 unique CDR3
13 unique J



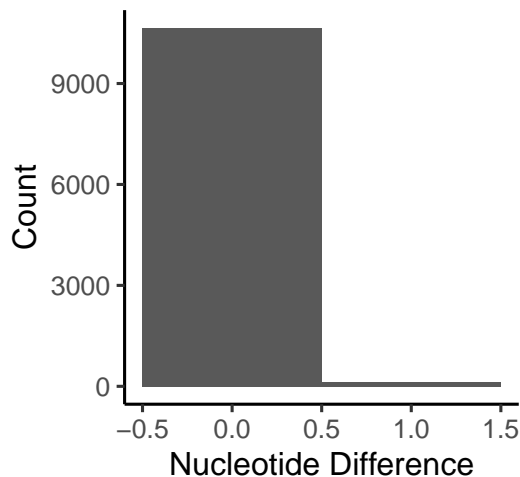
TRBV7–4*ap01

465 sequences assigned
459 (98.7%) exact matches, in which:
455 unique CDR3
13 unique J



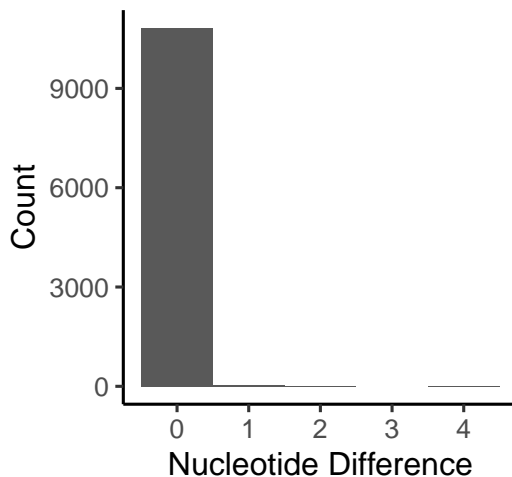
TRBV6–56*ap01

10777 sequences assigned
10649 (98.8%) exact matches, in which:
10426 unique CDR3
13 unique J



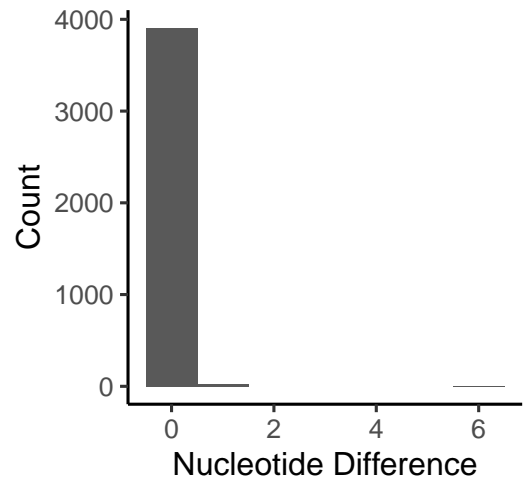
TRBV7–2*ap01

10873 sequences assigned
10823 (99.5%) exact matches, in which:
10756 unique CDR3
13 unique J



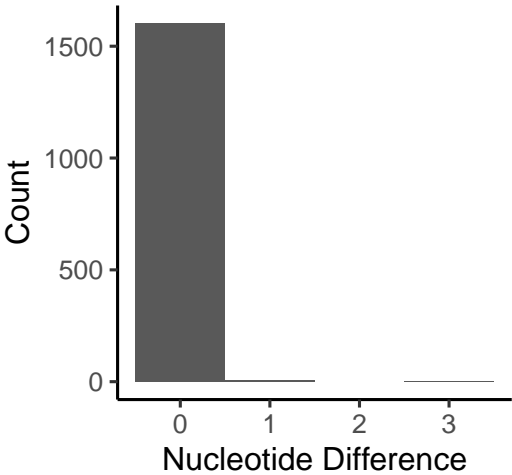
TRBV7–6*ap01

3931 sequences assigned
3905 (99.3%) exact matches, in which:
3858 unique CDR3
13 unique J



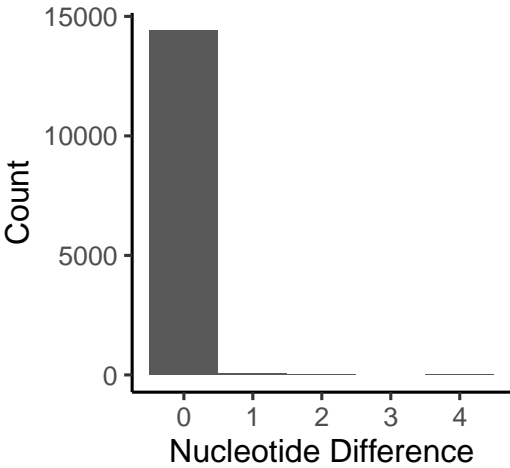
TRBV7-7*ap01_C315T

1610 sequences assigned
1602 (99.5%) exact matches, in which:
1573 unique CDR3
13 unique J



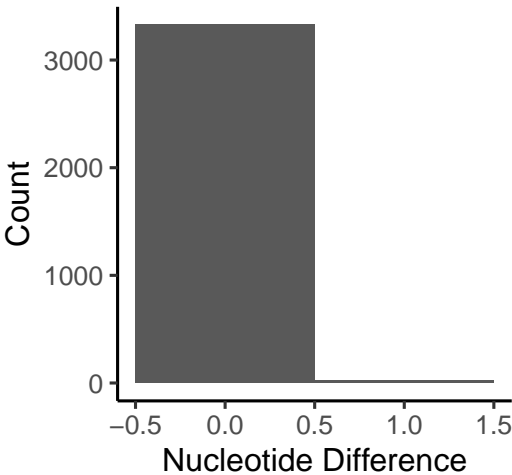
TRBV7-9*ap01

14494 sequences assigned
14423 (99.5%) exact matches, in which:
14312 unique CDR3
13 unique J



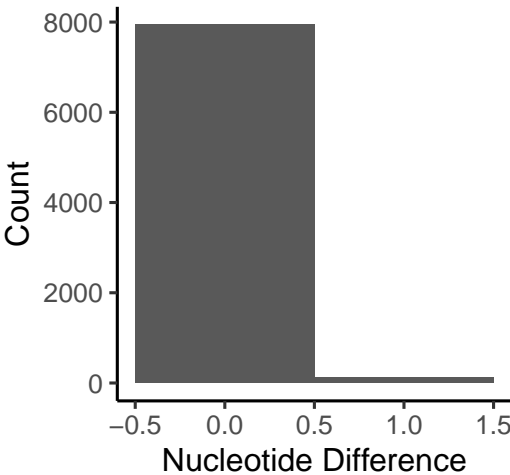
TRBV7-8*ap01

3348 sequences assigned
3328 (99.4%) exact matches, in which:
3295 unique CDR3
13 unique J



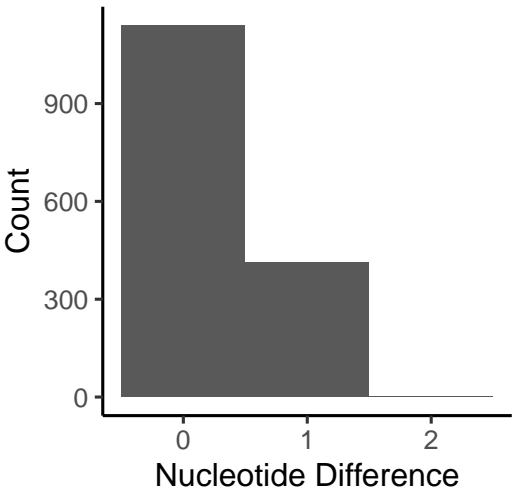
TRBV29-1*ap01

8055 sequences assigned
7941 (98.6%) exact matches, in which:
7734 unique CDR3
13 unique J



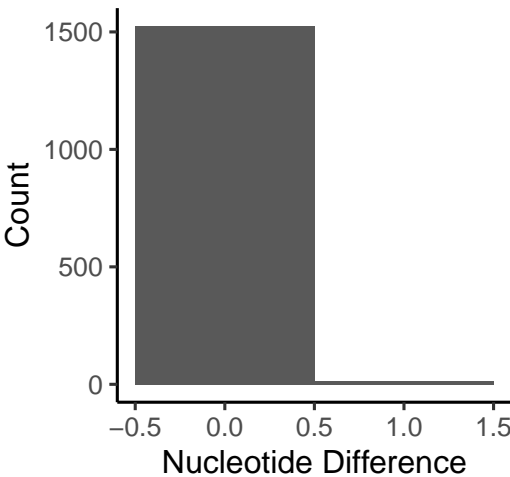
TRBV7-8*ap03

1555 sequences assigned
1140 (73.3%) exact matches, in which:
1128 unique CDR3
13 unique J

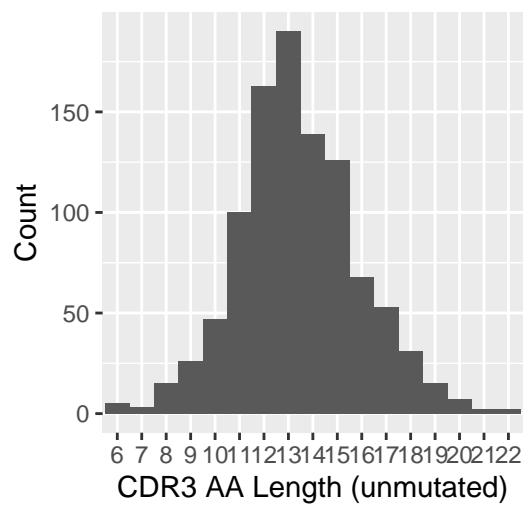


TRBV29-1*ap02

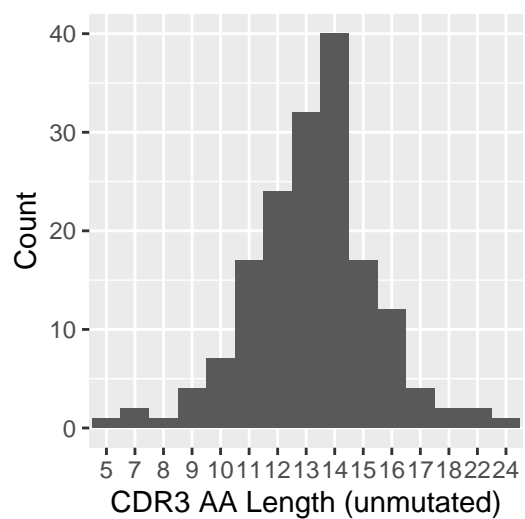
1540 sequences assigned
1525 (99%) exact matches, in which:
1491 unique CDR3
13 unique J



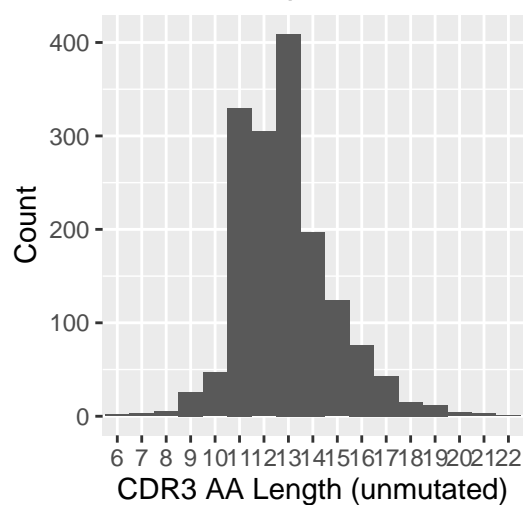
TRBV23-1*ap01_T304C



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]