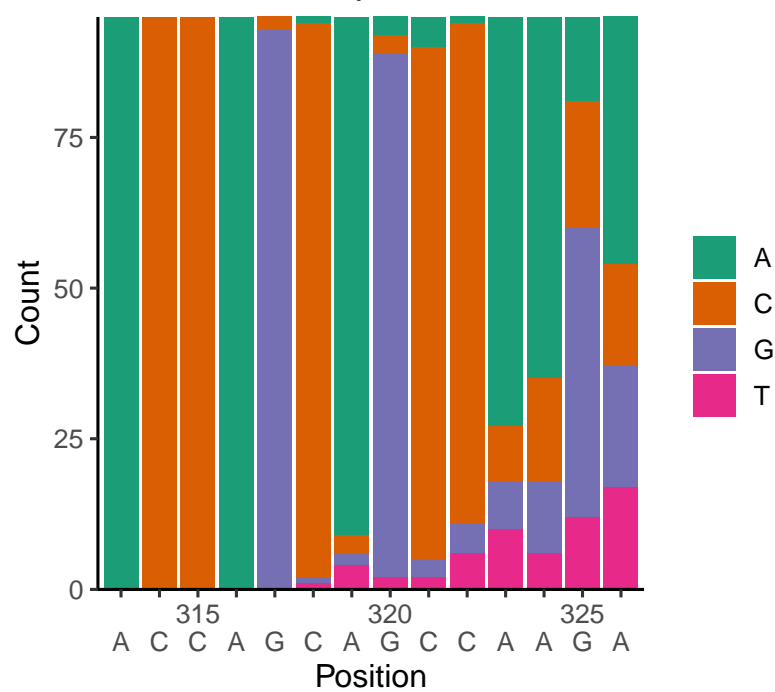
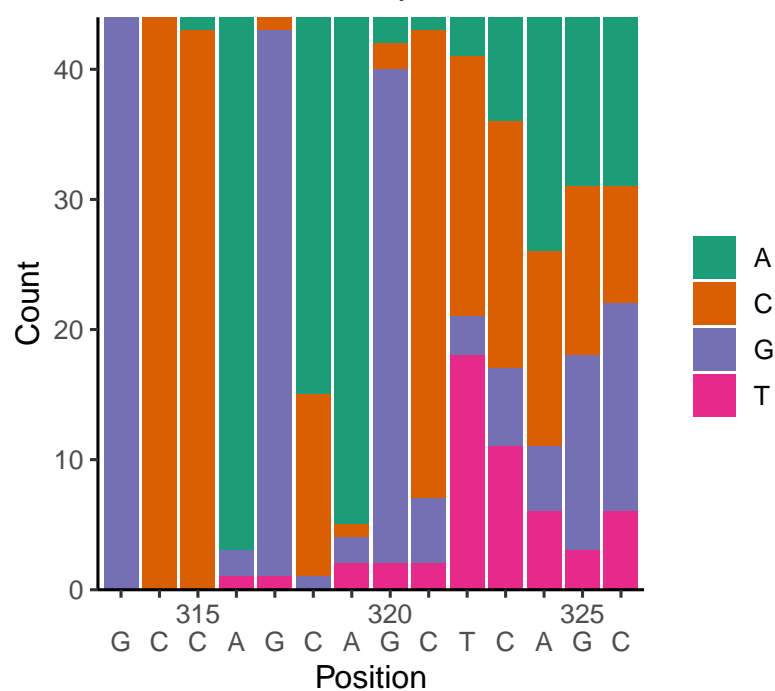


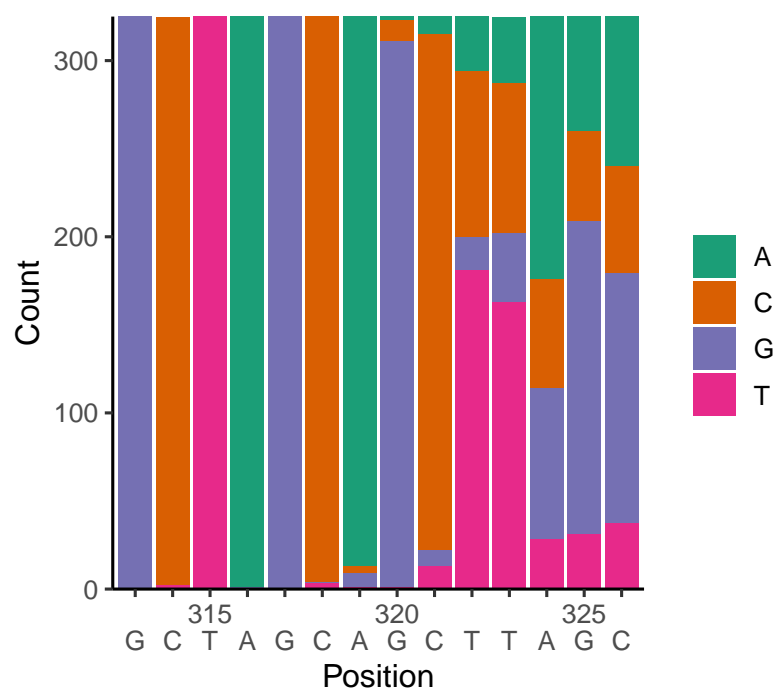
Gene TRBV1*ap01_G303A



Gene TRBV7-1*ap01_T296C



Gene TRBV7-7*ap01_C315T



Gene TRBV1*ap01_G303A



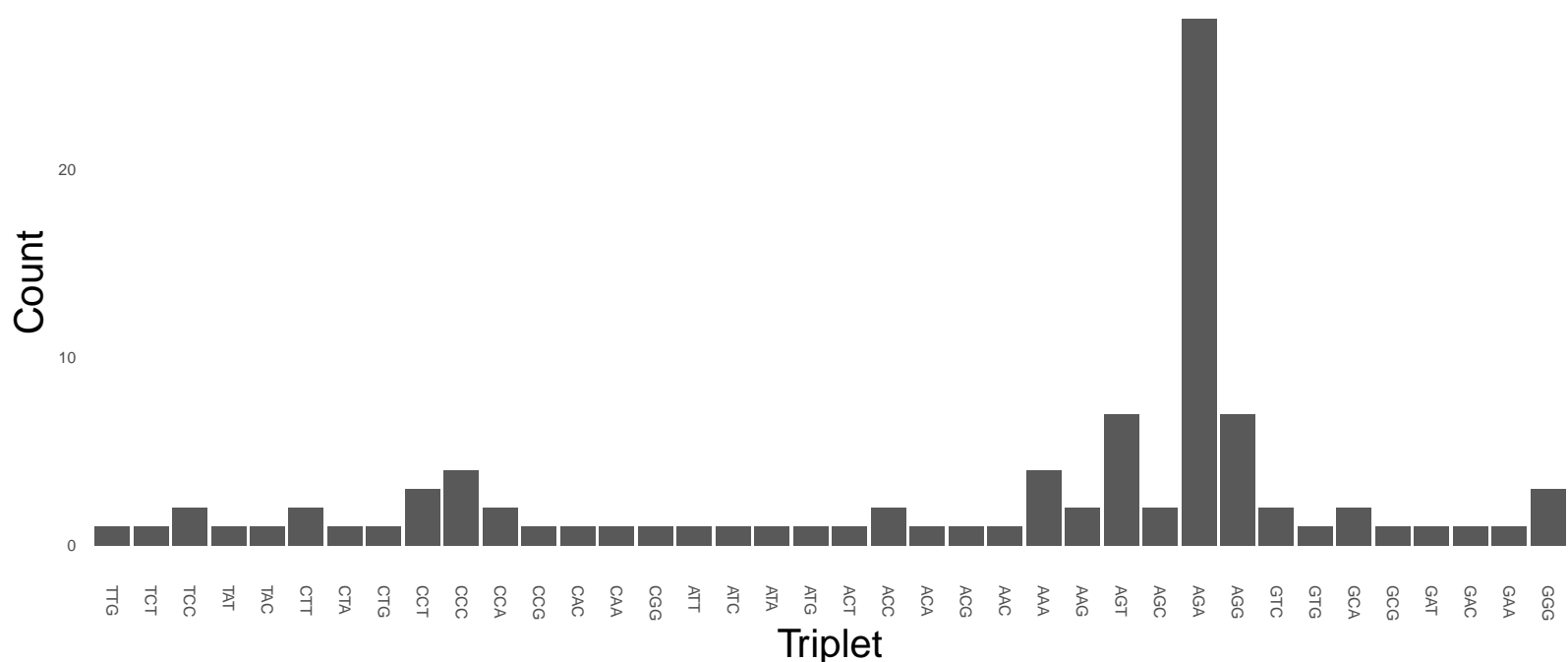
Gene TRBV7-1*ap01_T296C



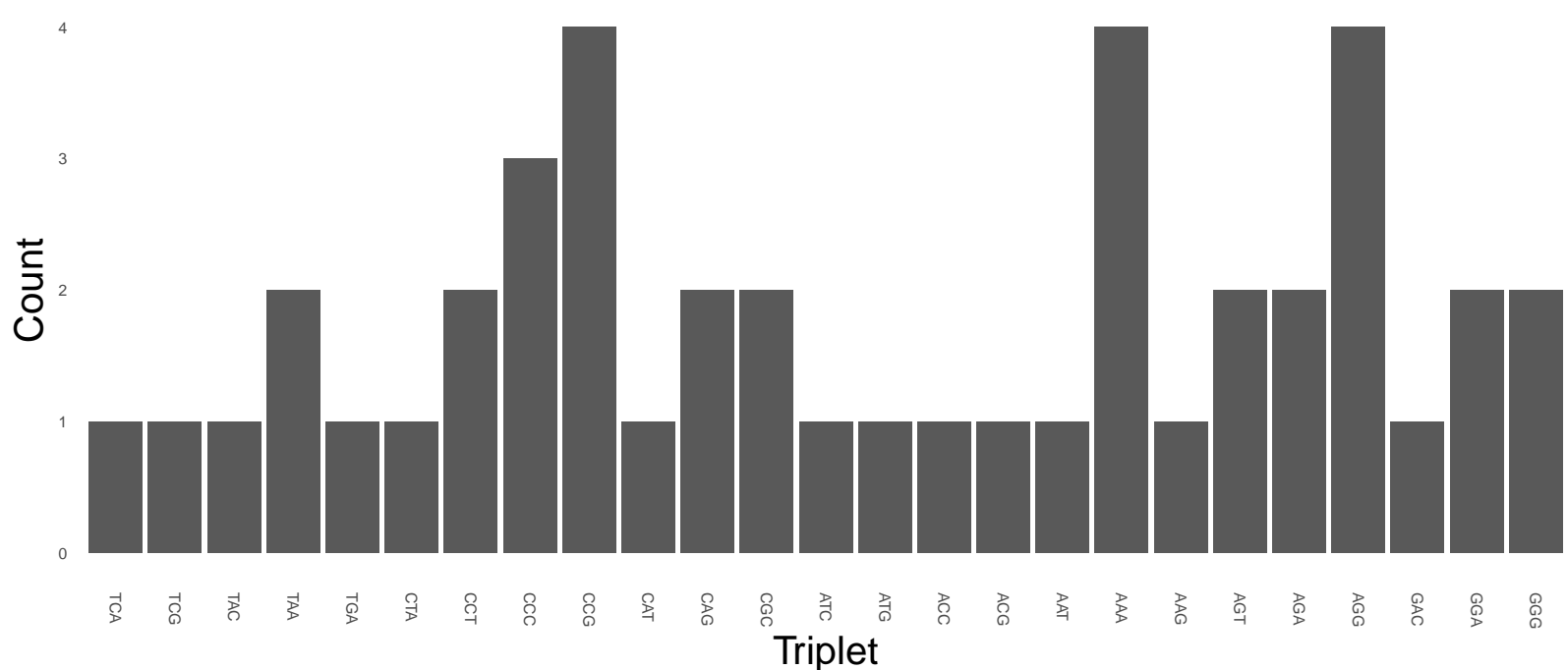
Gene TRBV7-7*ap01_C315T



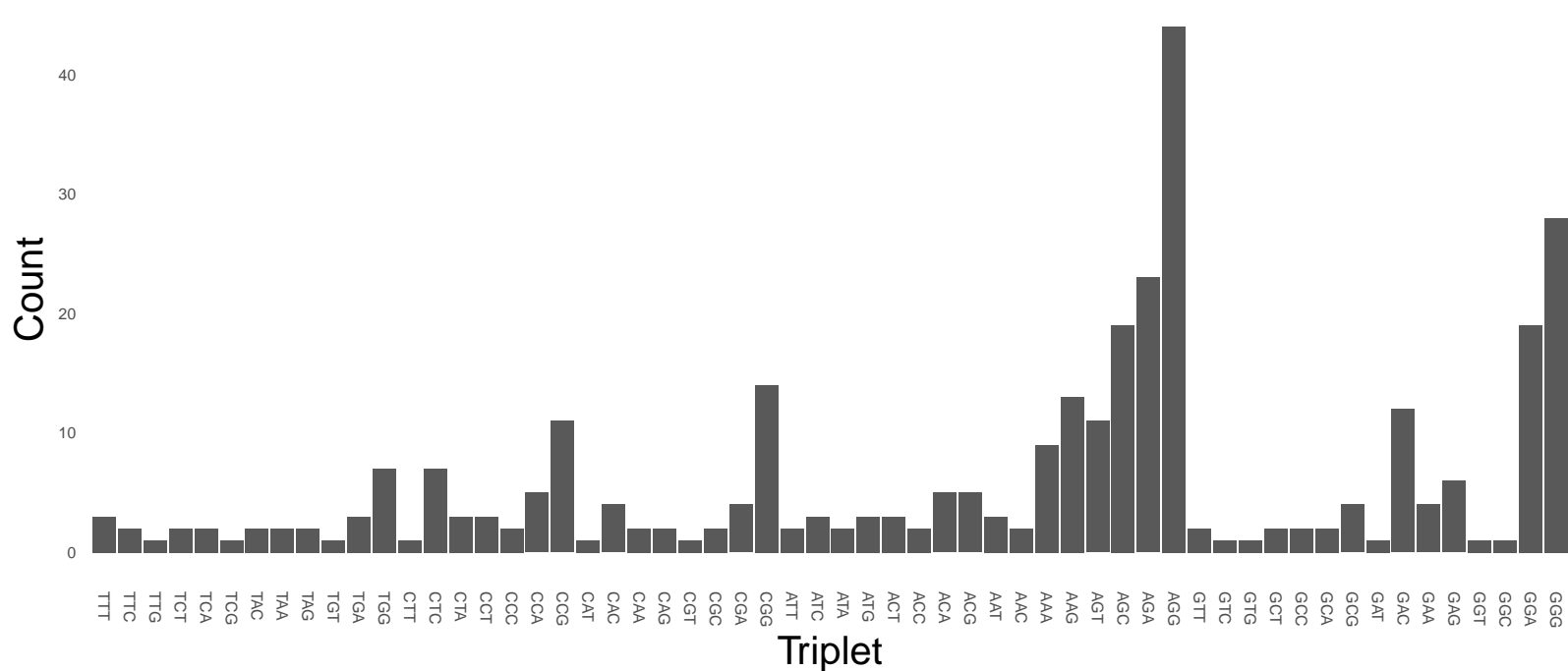
TRBV1*ap01_G303A– Final 3 nucleotides as a triplet



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

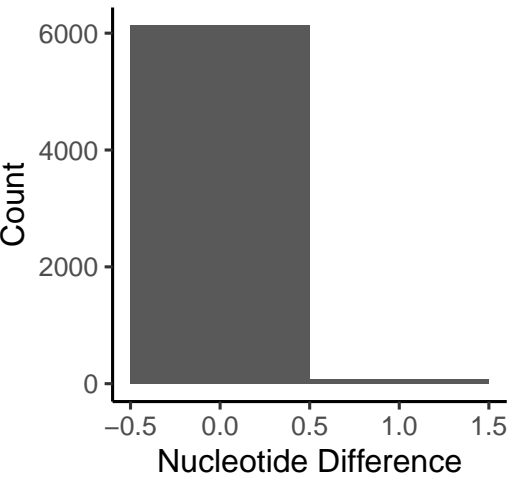


TRBV7-7*ap01_C315T– Final 3 nucleotides as a triplet



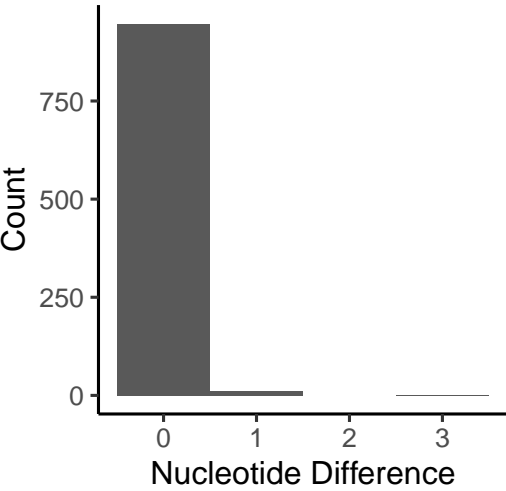
TRBV20–1*ap01

6208 sequences assigned
6133 (98.8%) exact matches, in which:
6010 unique CDR3
13 unique J



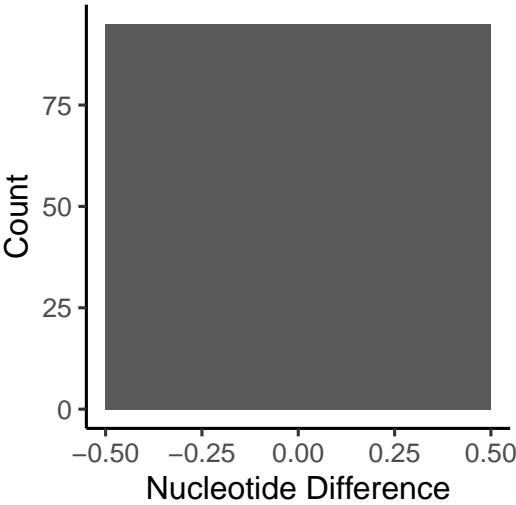
TRBV10–2*ap01

960 sequences assigned
947 (98.6%) exact matches, in which:
921 unique CDR3
13 unique J



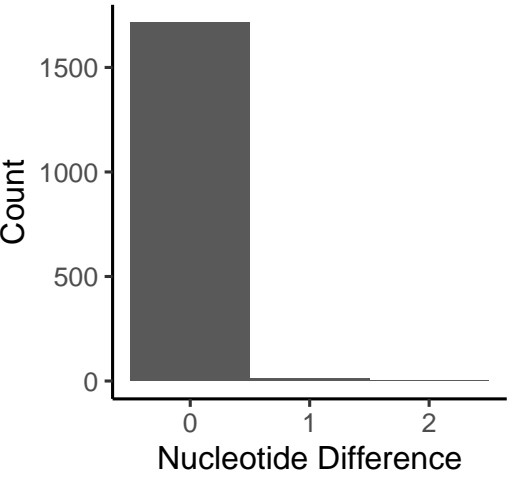
TRBV1*ap01_G303A

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



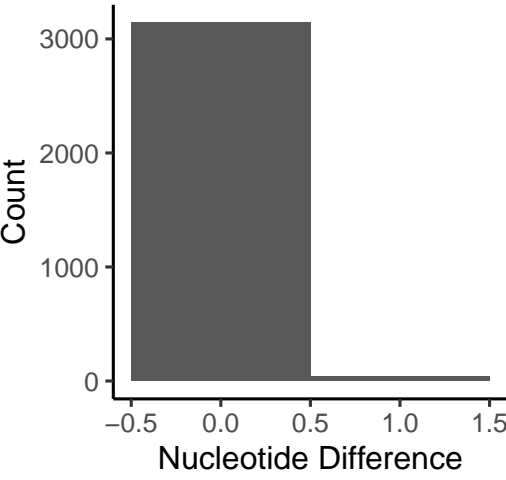
TRBV10–1*ap01

1728 sequences assigned
1714 (99.2%) exact matches, in which:
1667 unique CDR3
13 unique J



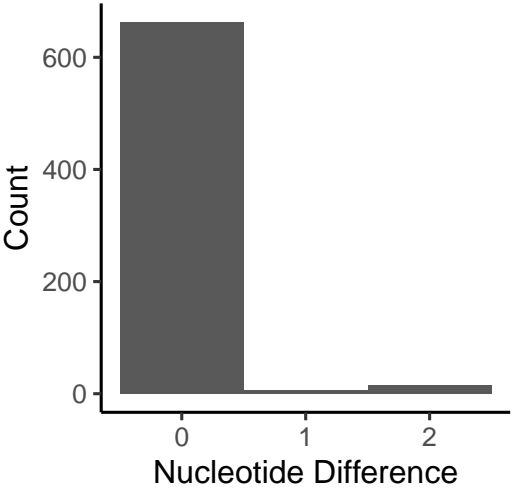
TRBV10–3*ap01

3180 sequences assigned
3142 (98.8%) exact matches, in which:
3077 unique CDR3
13 unique J



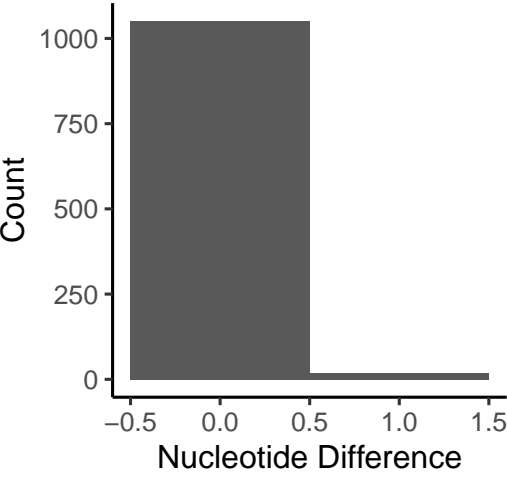
TRBV13*ap01

685 sequences assigned
663 (96.8%) exact matches, in which:
644 unique CDR3
13 unique J



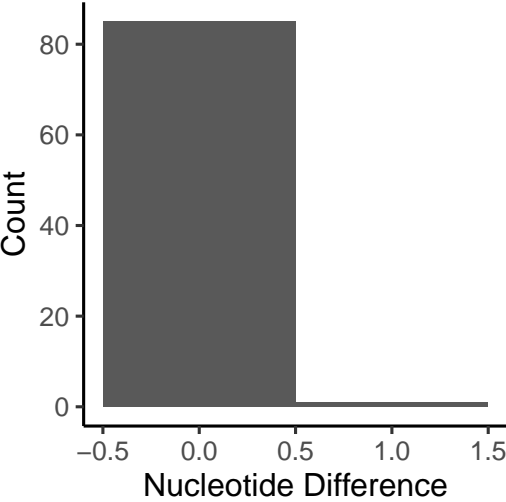
TRBV20–1*ap02

1070 sequences assigned
1051 (98.2%) exact matches, in which:
1037 unique CDR3
13 unique J



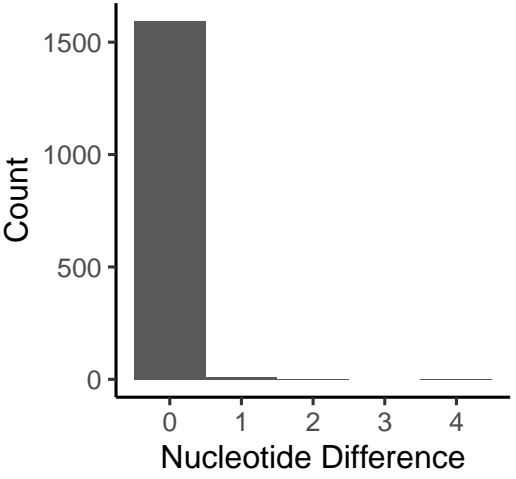
TRBV1*ap01

86 sequences assigned
85 (98.8%) exact matches, in which:
83 unique CDR3
11 unique J



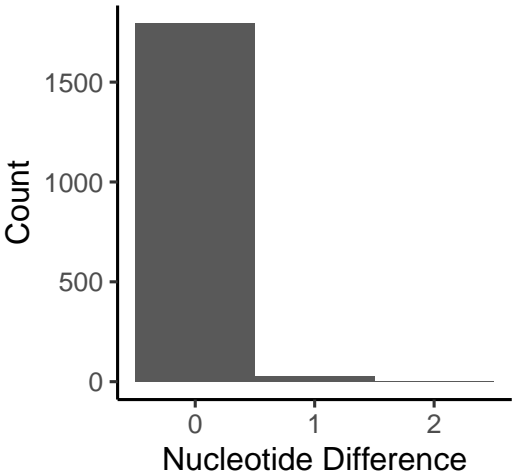
TRBV14*ap01

1607 sequences assigned
1594 (99.2%) exact matches, in which:
1573 unique CDR3
13 unique J



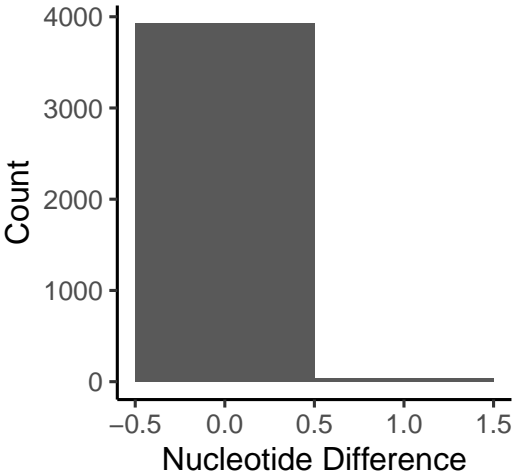
TRBV15*ap02

1823 sequences assigned
1794 (98.4%) exact matches, in which:
1750 unique CDR3
13 unique J



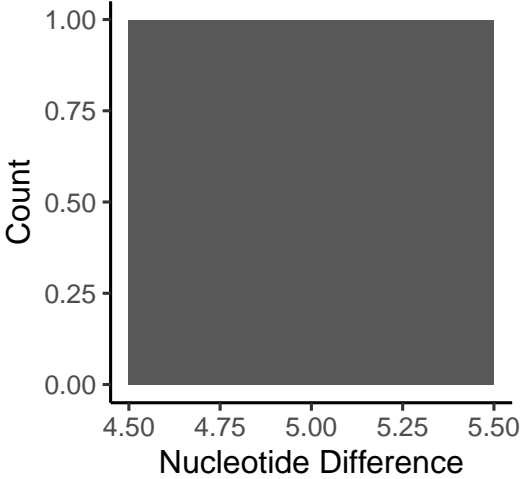
TRBV18*ap01

3963 sequences assigned
3927 (99.1%) exact matches, in which:
3863 unique CDR3
13 unique J



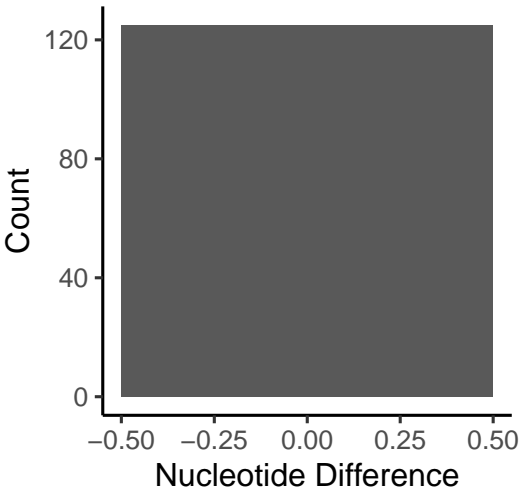
TRBV26*ap01

1 sequences assigned
No exact matches.



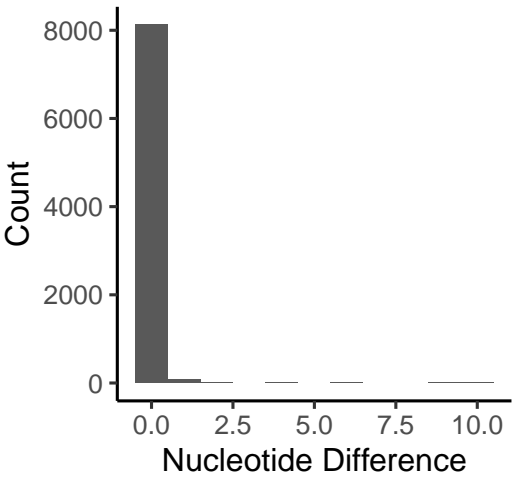
TRBV16*ap01

125 sequences assigned
125 (100%) exact matches, in which:
125 unique CDR3
12 unique J



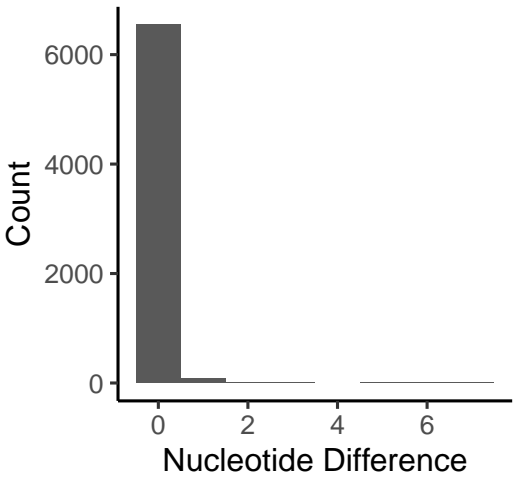
TRBV19*ap01

8216 sequences assigned
8126 (98.9%) exact matches, in which:
7997 unique CDR3
13 unique J



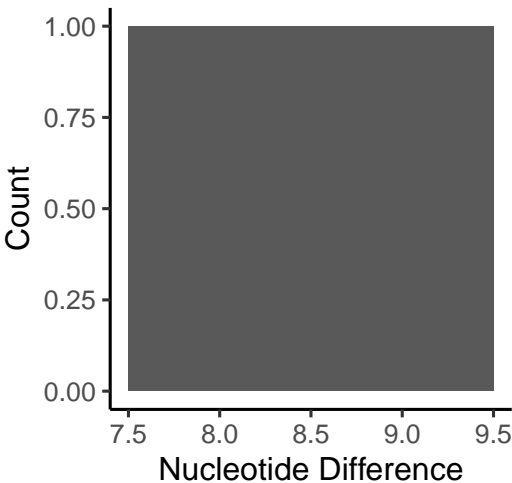
TRBV27*ap01

6643 sequences assigned
6546 (98.5%) exact matches, in which:
6376 unique CDR3
13 unique J



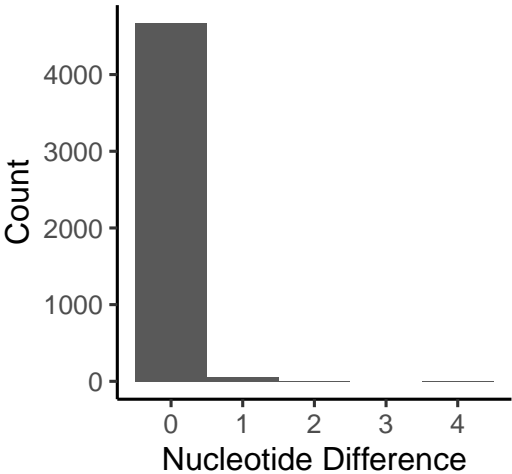
TRBV17*ap01

2 sequences assigned
No exact matches.



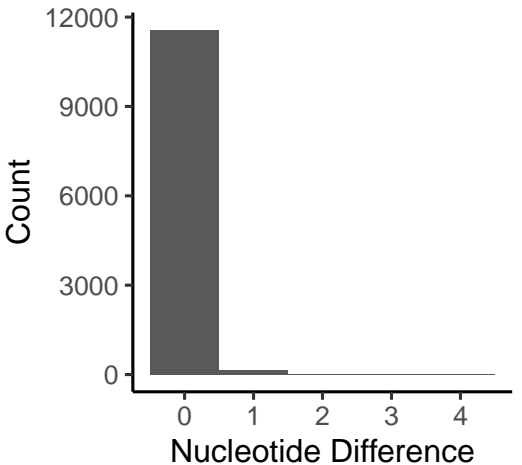
TRBV2*ap01

4734 sequences assigned
4672 (98.7%) exact matches, in which:
4583 unique CDR3
13 unique J



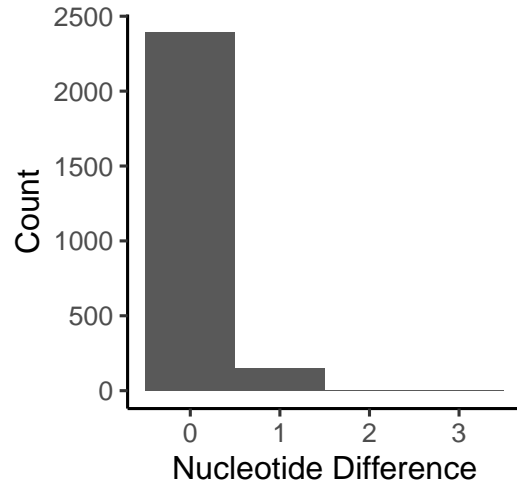
TRBV28*ap01

11723 sequences assigned
11573 (98.7%) exact matches, in which:
11297 unique CDR3
13 unique J



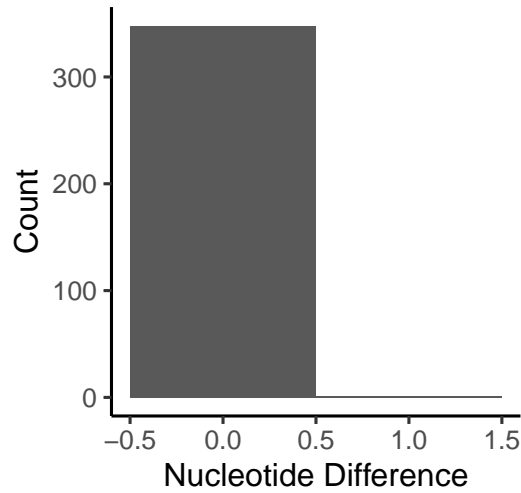
TRBV30*ap01

2545 sequences assigned
2392 (94%) exact matches, in which:
2368 unique CDR3
13 unique J



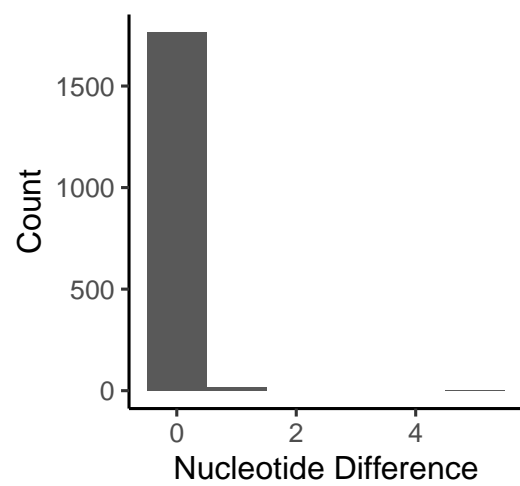
TRBV11-1*ap01

349 sequences assigned
348 (99.7%) exact matches, in which:
337 unique CDR3
13 unique J



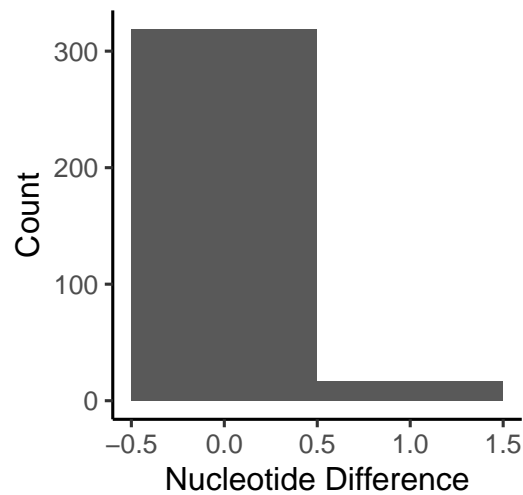
TRBV11-3*ap01

1784 sequences assigned
1764 (98.9%) exact matches, in which:
1726 unique CDR3
13 unique J



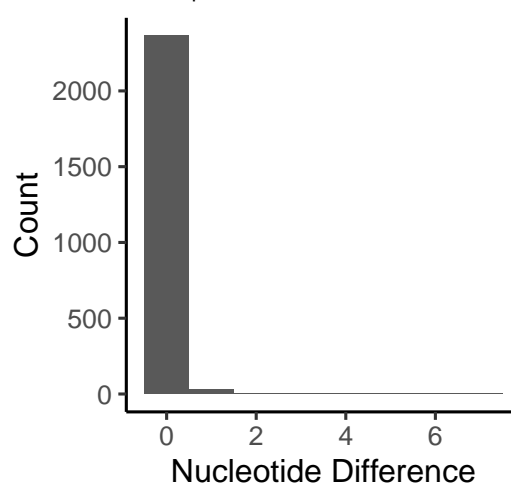
TRBV30*ap03

336 sequences assigned
319 (94.9%) exact matches, in which:
314 unique CDR3
13 unique J



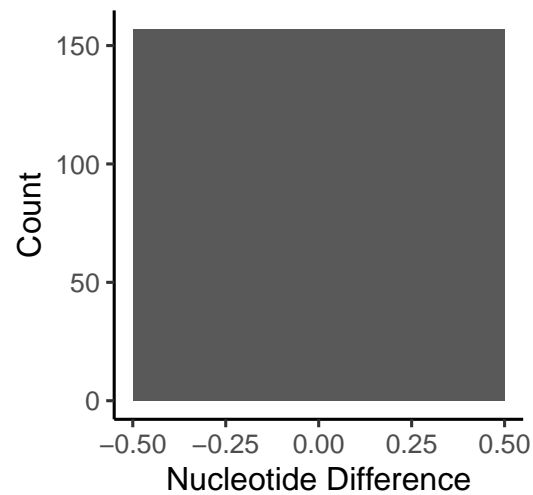
TRBV21-1*ap01

2408 sequences assigned
2364 (98.2%) exact matches, in which:
2314 unique CDR3
13 unique J



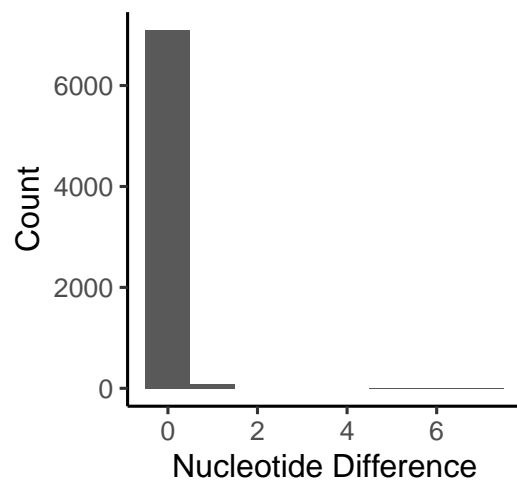
TRBV12-1*ap01

157 sequences assigned
157 (100%) exact matches, in which:
155 unique CDR3
13 unique J



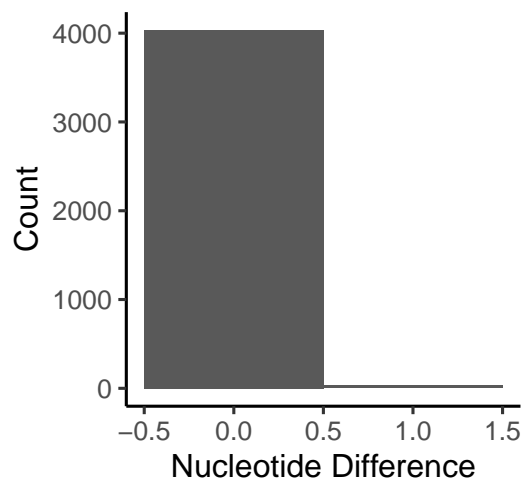
TRBV9*ap01

7188 sequences assigned
7100 (98.8%) exact matches, in which:
6957 unique CDR3
13 unique J



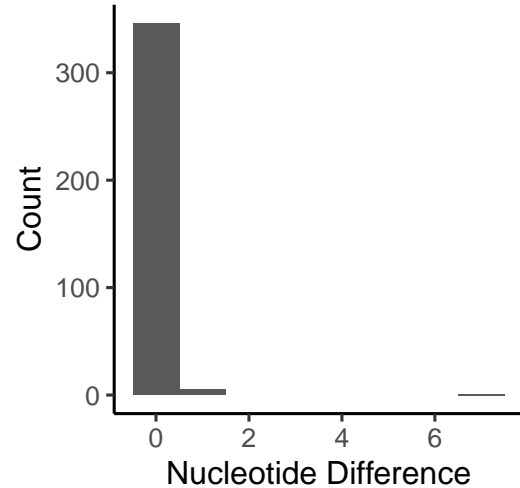
TRBV11-2*ap01

4067 sequences assigned
4035 (99.2%) exact matches, in which:
3946 unique CDR3
13 unique J



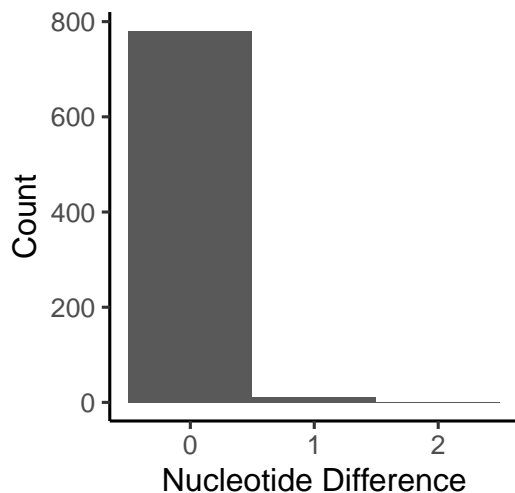
TRBV12-2*ap01

352 sequences assigned
346 (98.3%) exact matches, in which:
332 unique CDR3
13 unique J



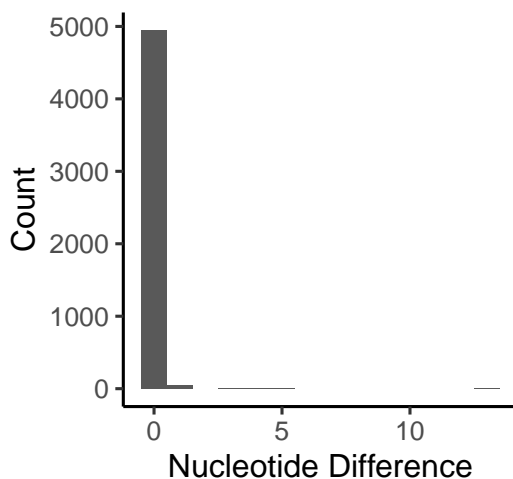
TRBV12–5*ap01

793 sequences assigned
781 (98.5%) exact matches, in which:
768 unique CDR3
13 unique J



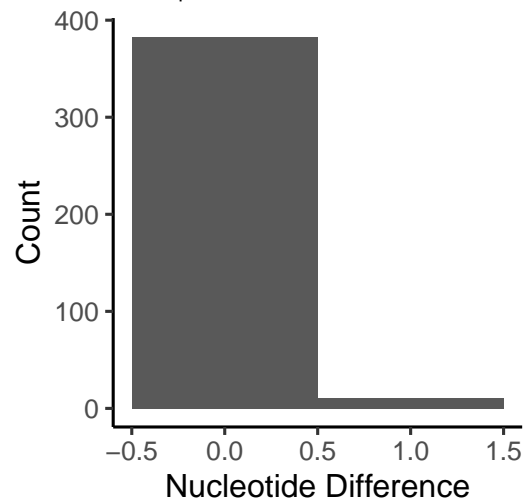
TRBV3–12*ap01

5007 sequences assigned
4945 (98.8%) exact matches, in which:
4856 unique CDR3
13 unique J



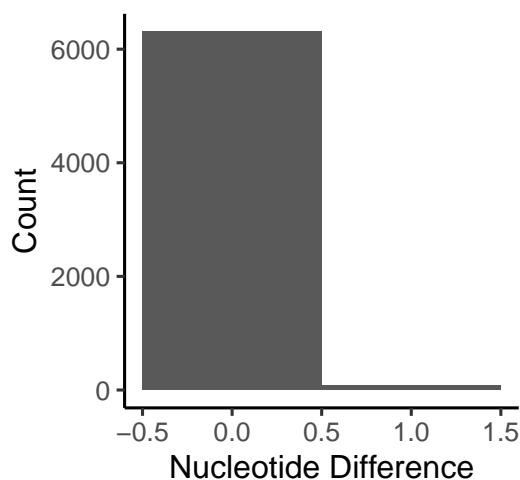
TRBV4–2*ap01

394 sequences assigned
383 (97.2%) exact matches, in which:
376 unique CDR3
13 unique J



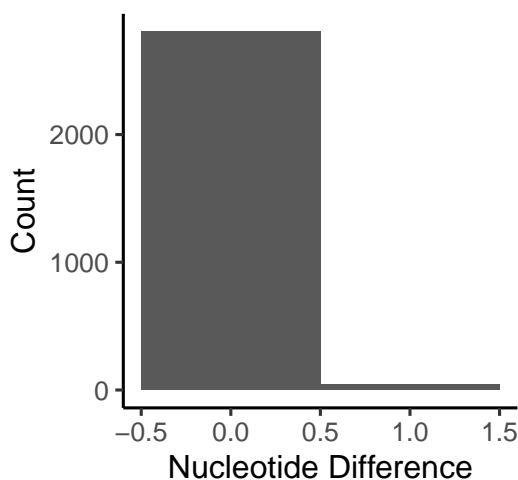
TRBV12–34*ap01

6381 sequences assigned
6307 (98.8%) exact matches, in which:
6152 unique CDR3
13 unique J



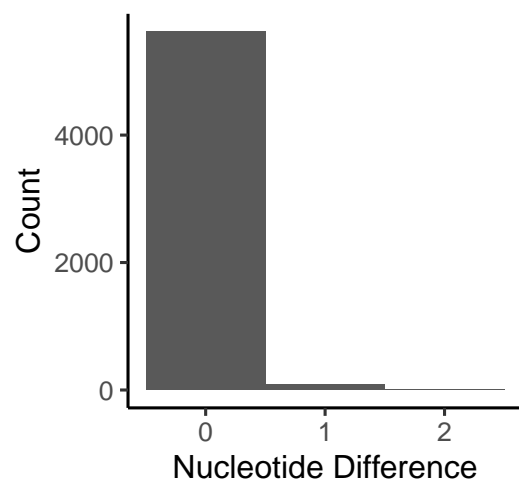
TRBV4–1*ap01

2845 sequences assigned
2805 (98.6%) exact matches, in which:
2751 unique CDR3
13 unique J



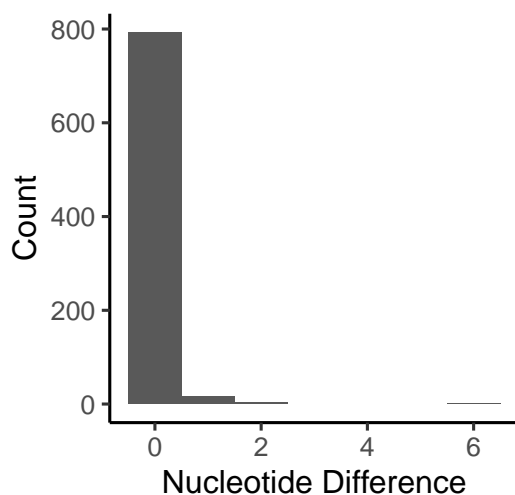
TRBV4–3*ap01

5708 sequences assigned
5622 (98.5%) exact matches, in which:
5514 unique CDR3
13 unique J



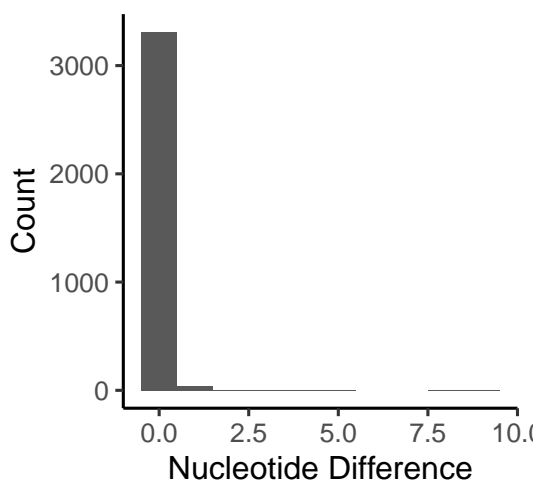
TRBV23–1*ap01

813 sequences assigned
793 (97.5%) exact matches, in which:
777 unique CDR3
13 unique J



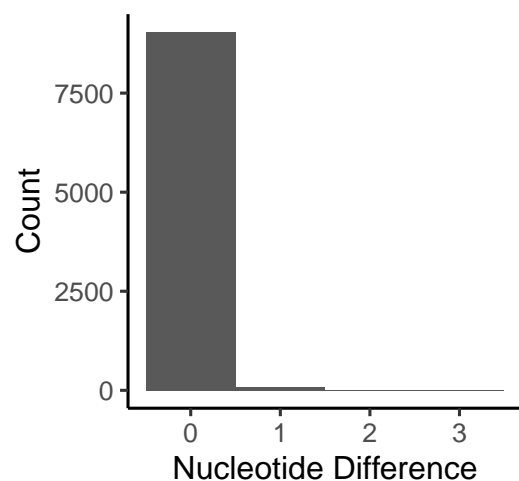
TRBV24–1*ap01

3356 sequences assigned
3310 (98.6%) exact matches, in which:
3269 unique CDR3
13 unique J



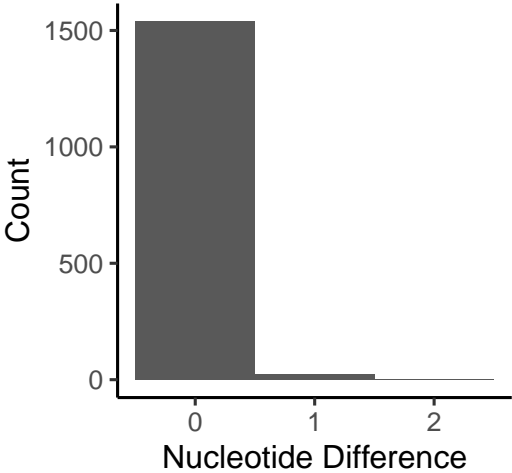
TRBV5–1*ap01

9138 sequences assigned
9041 (98.9%) exact matches, in which:
8812 unique CDR3
13 unique J



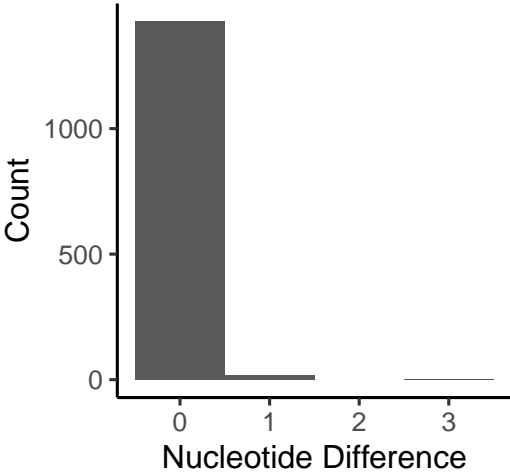
TRBV25–1*ap01

1564 sequences assigned
1539 (98.4%) exact matches, in which:
1507 unique CDR3
13 unique J



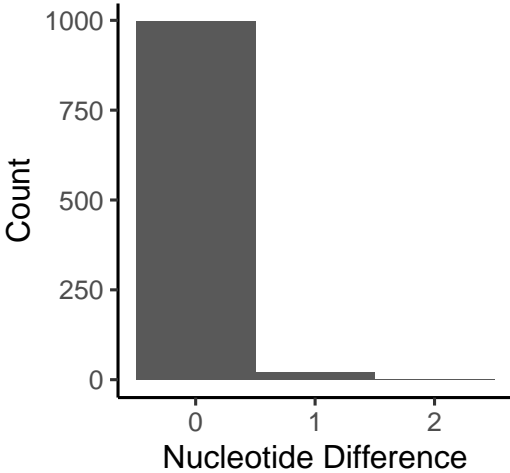
TRBV5–5*ap01

1445 sequences assigned
1427 (98.8%) exact matches, in which:
1406 unique CDR3
13 unique J



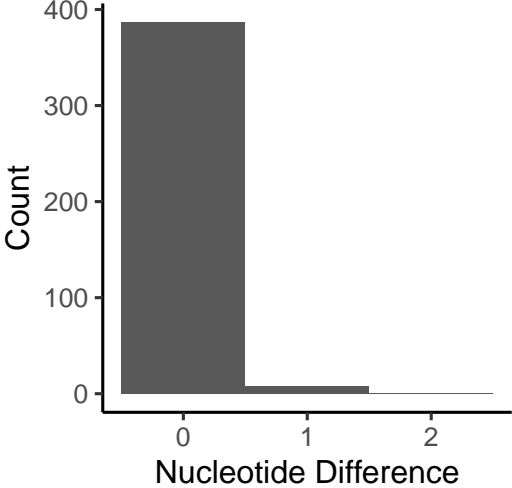
TRBV5–8*ap01

1019 sequences assigned
997 (97.8%) exact matches, in which:
980 unique CDR3
13 unique J



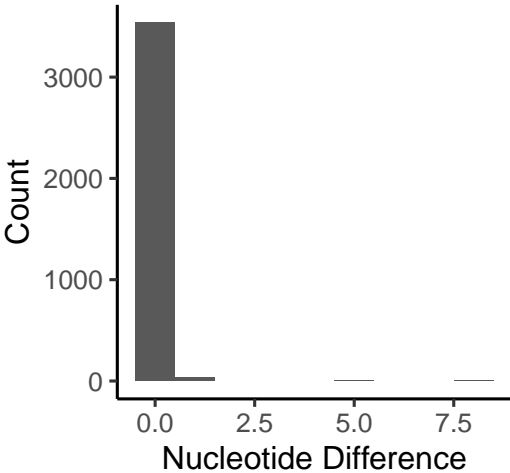
TRBV5–3*ap01

396 sequences assigned
387 (97.7%) exact matches, in which:
380 unique CDR3
13 unique J



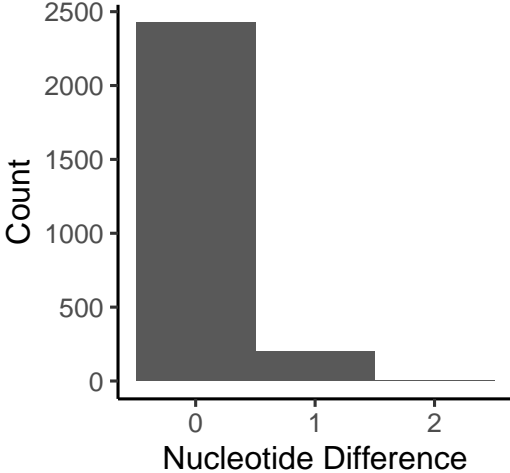
TRBV5–6*ap01

3573 sequences assigned
3537 (99%) exact matches, in which:
3465 unique CDR3
13 unique J



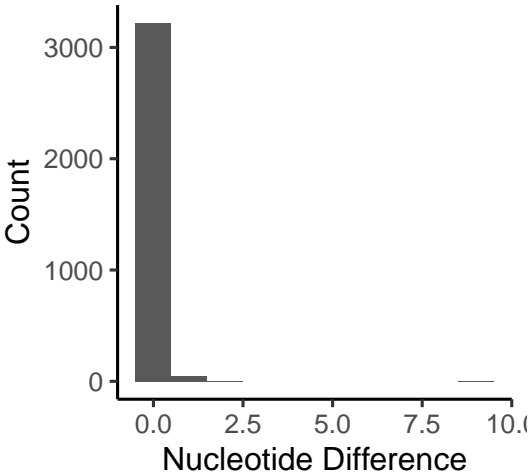
TRBV6–1*ap01

2627 sequences assigned
2425 (92.3%) exact matches, in which:
2383 unique CDR3
13 unique J



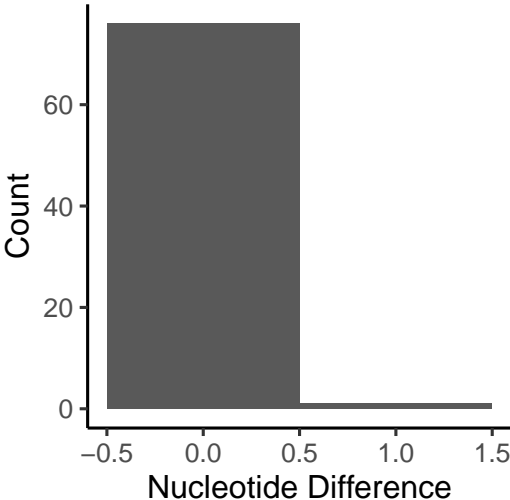
TRBV5–4*ap01

3270 sequences assigned
3219 (98.4%) exact matches, in which:
3144 unique CDR3
13 unique J



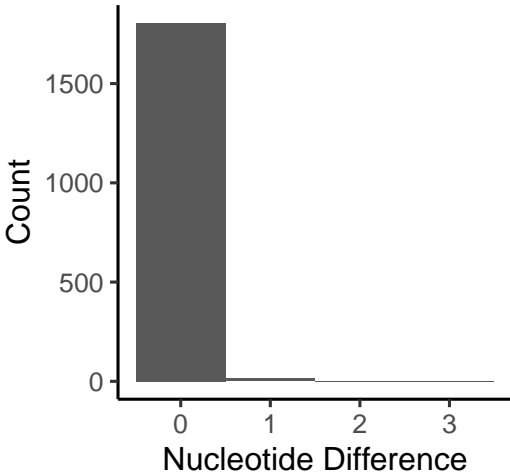
TRBV5–7*ap01

77 sequences assigned
76 (98.7%) exact matches, in which:
74 unique CDR3
11 unique J



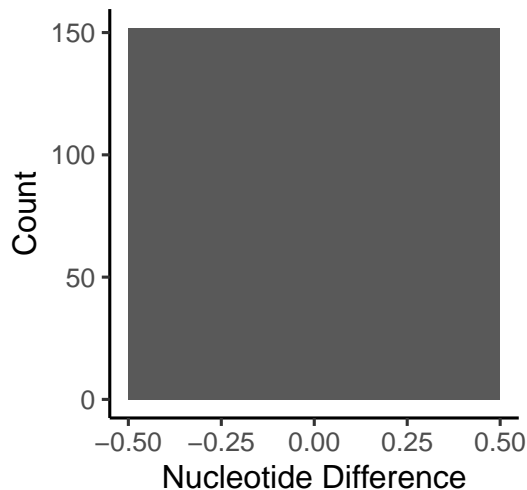
TRBV6–4*ap01

1822 sequences assigned
1805 (99.1%) exact matches, in which:
1778 unique CDR3
13 unique J



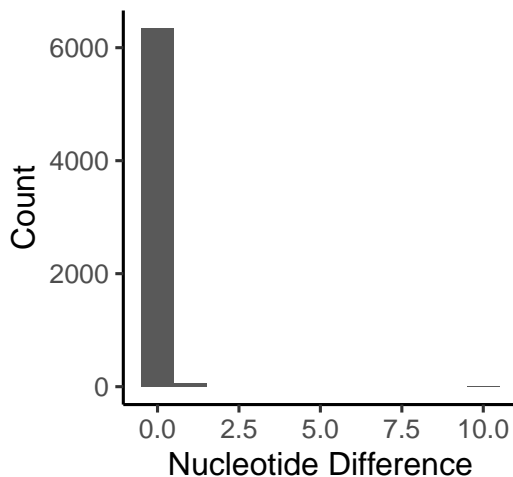
TRBV6-7*ap01

152 sequences assigned
152 (100%) exact matches, in which:
148 unique CDR3
13 unique J



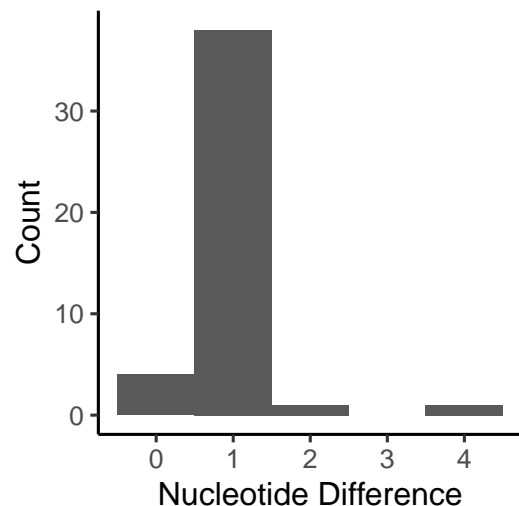
TRBV6-23*ap01

6409 sequences assigned
6341 (98.9%) exact matches, in which:
6203 unique CDR3
13 unique J



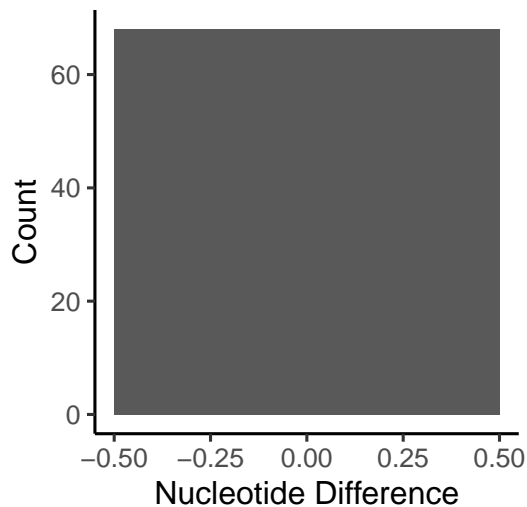
TRBV7-1*ap01_T296C

44 sequences assigned
4 (9.1%) exact matches, in which:
4 unique CDR3
4 unique J



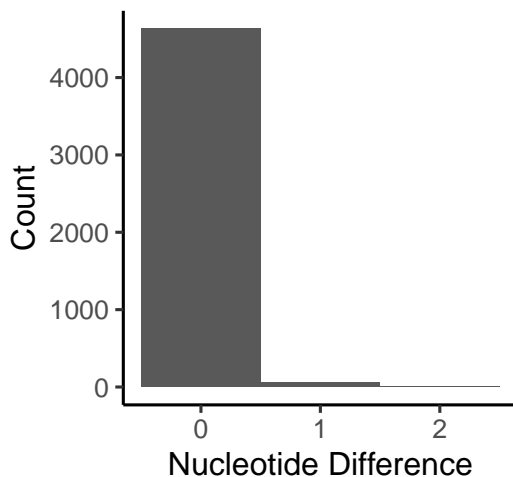
TRBV6-8*ap01

68 sequences assigned
68 (100%) exact matches, in which:
67 unique CDR3
12 unique J



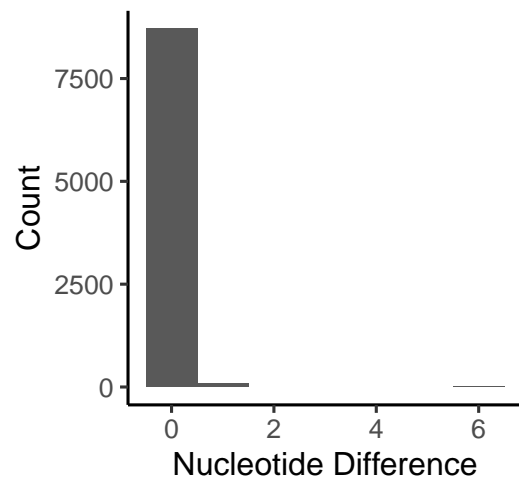
TRBV6-56*ap01

4692 sequences assigned
4631 (98.7%) exact matches, in which:
4550 unique CDR3
13 unique J



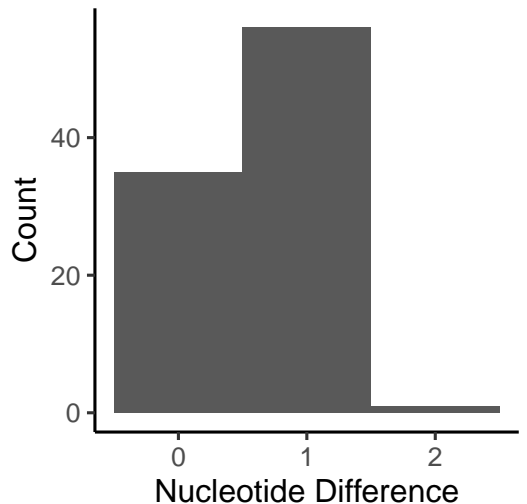
TRBV7-2*ap01

8796 sequences assigned
8711 (99%) exact matches, in which:
8524 unique CDR3
13 unique J



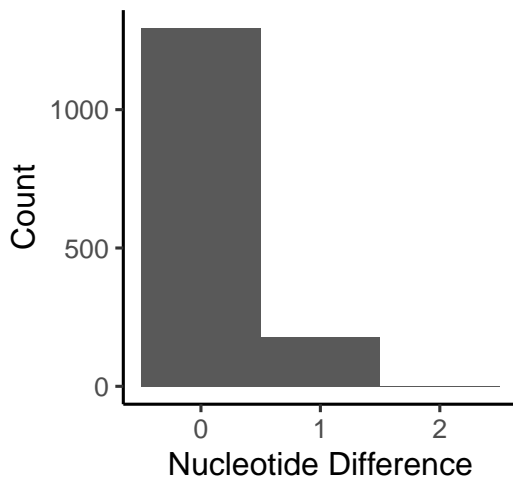
TRBV6-9*ap01

92 sequences assigned
35 (38%) exact matches, in which:
35 unique CDR3
11 unique J



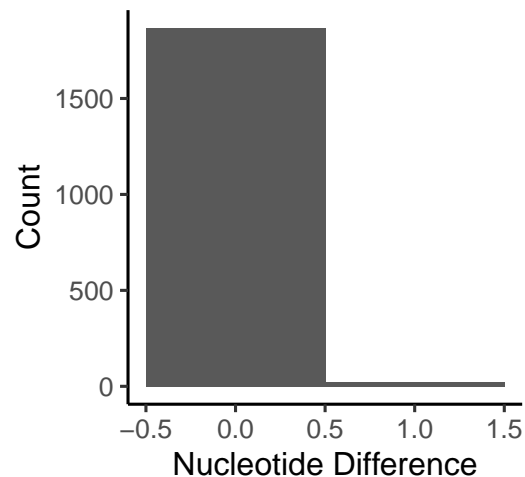
TRBV6-56*ap02

1476 sequences assigned
1295 (87.7%) exact matches, in which:
1266 unique CDR3
13 unique J



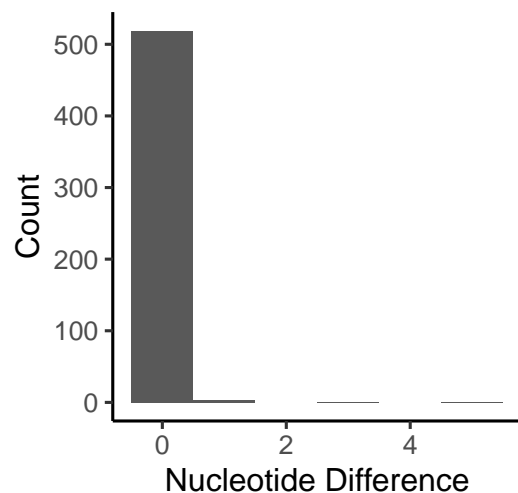
TRBV7-3*ap01

1888 sequences assigned
1867 (98.9%) exact matches, in which:
1838 unique CDR3
13 unique J



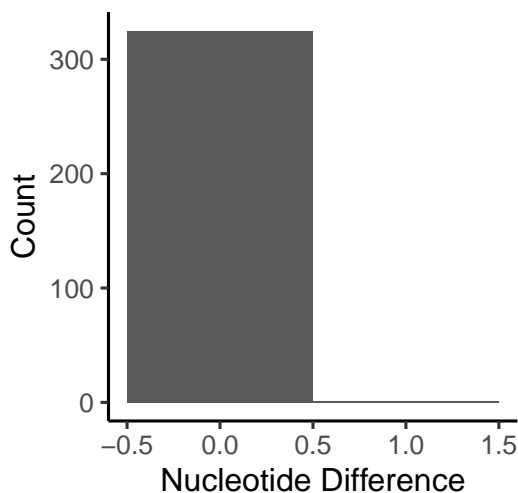
TRBV7-3*ap02

524 sequences assigned
519 (99%) exact matches, in which:
502 unique CDR3
13 unique J



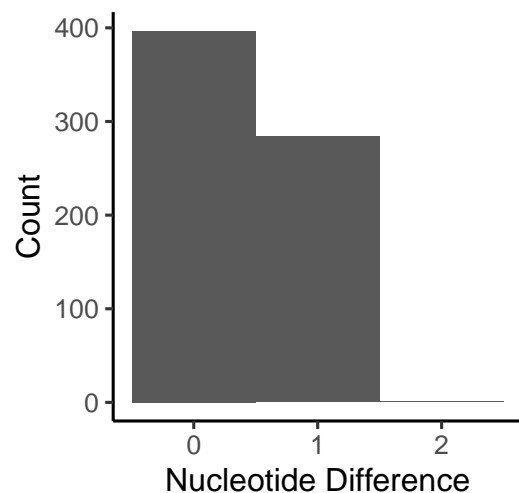
TRBV7-7*ap01

326 sequences assigned
325 (99.7%) exact matches, in which:
310 unique CDR3
13 unique J



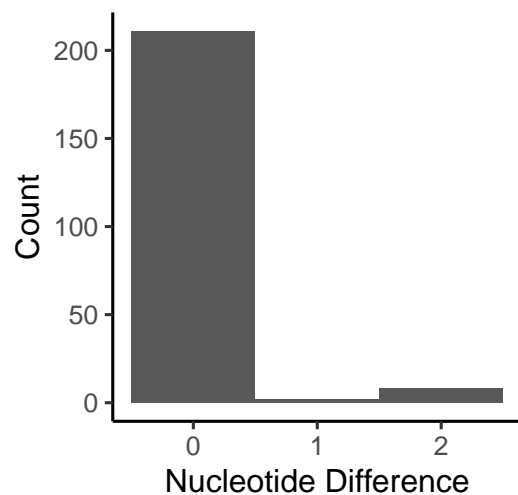
TRBV7-8*ap03

682 sequences assigned
397 (58.2%) exact matches, in which:
385 unique CDR3
13 unique J



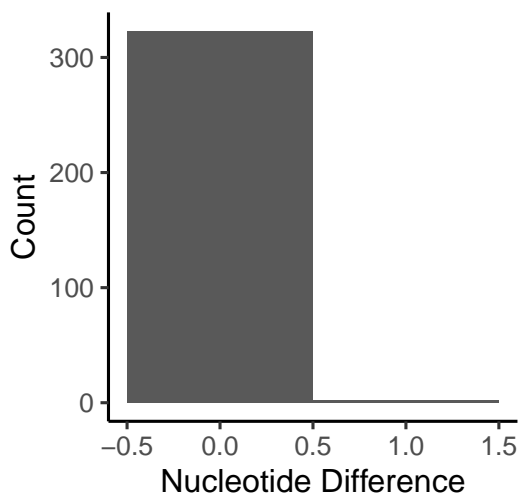
TRBV7-4*ap01

221 sequences assigned
211 (95.5%) exact matches, in which:
208 unique CDR3
13 unique J



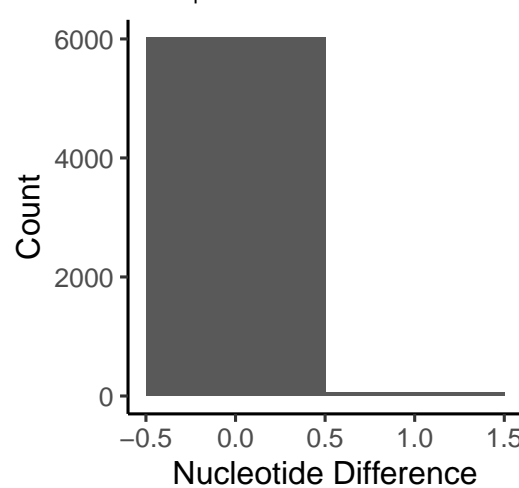
TRBV7-7*ap01_C315T

325 sequences assigned
323 (99.4%) exact matches, in which:
318 unique CDR3
13 unique J



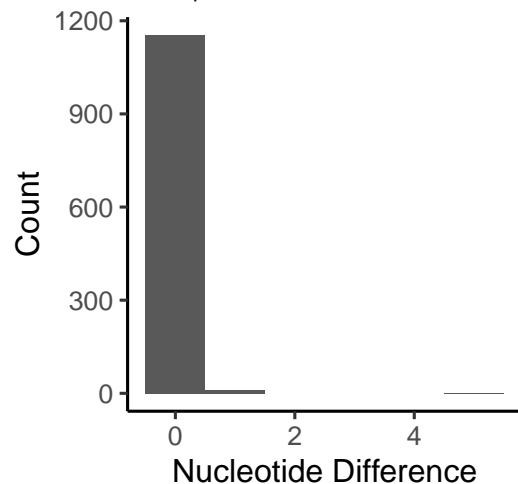
TRBV7-9*ap01

6078 sequences assigned
6020 (99%) exact matches, in which:
5900 unique CDR3
13 unique J



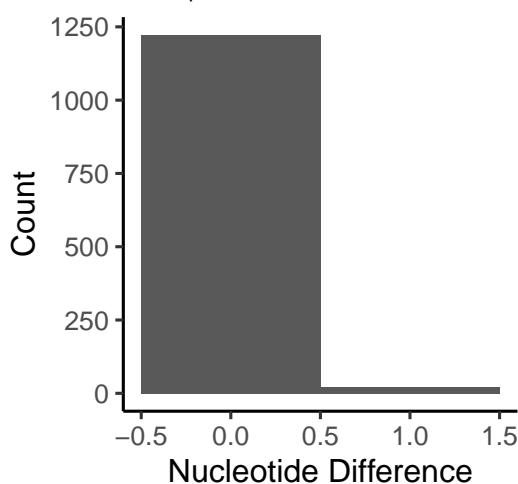
TRBV7-6*ap01

1165 sequences assigned
1154 (99.1%) exact matches, in which:
1132 unique CDR3
13 unique J



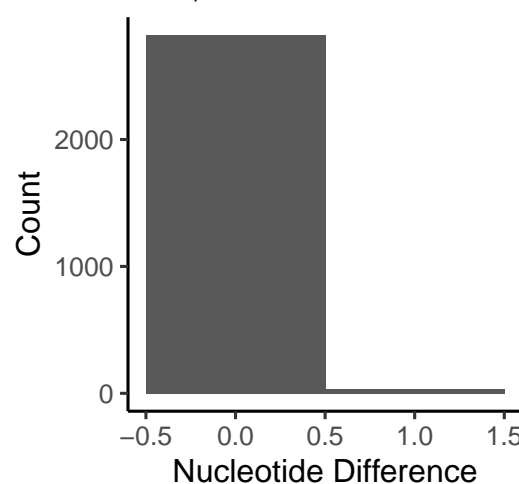
TRBV7-8*ap01

1244 sequences assigned
1222 (98.2%) exact matches, in which:
1197 unique CDR3
13 unique J



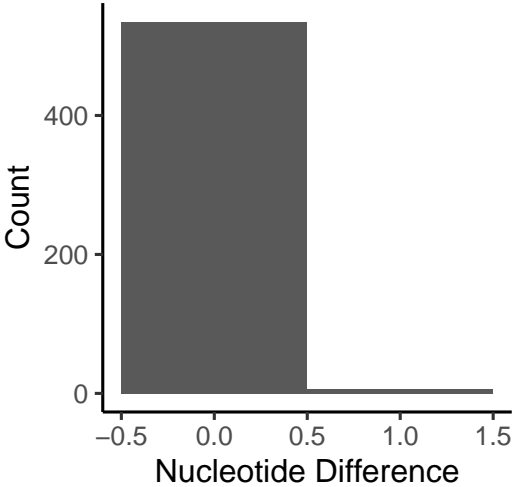
TRBV29-1*ap01

2858 sequences assigned
2823 (98.8%) exact matches, in which:
2776 unique CDR3
13 unique J

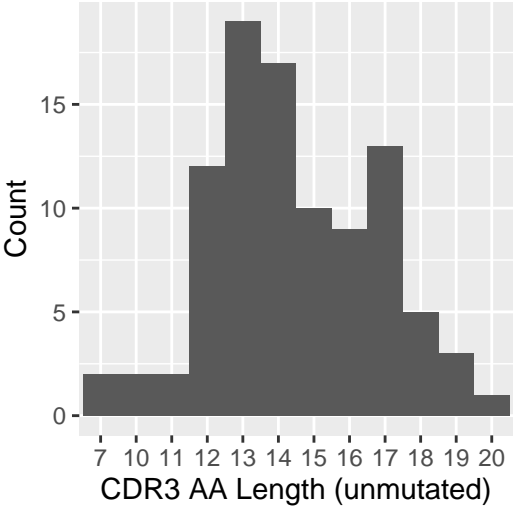


TRBV29-1*ap02

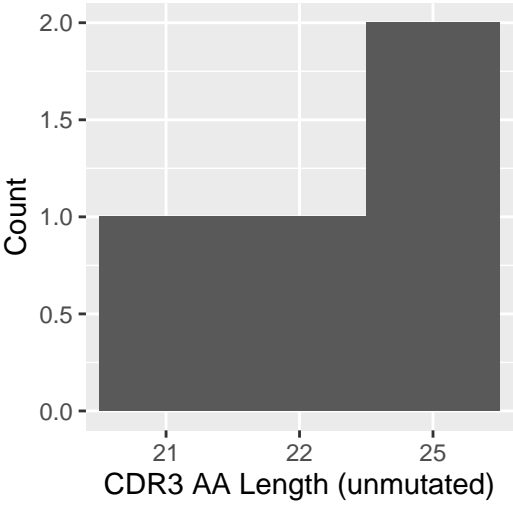
541 sequences assigned
535 (98.9%) exact matches, in which:
529 unique CDR3
13 unique J



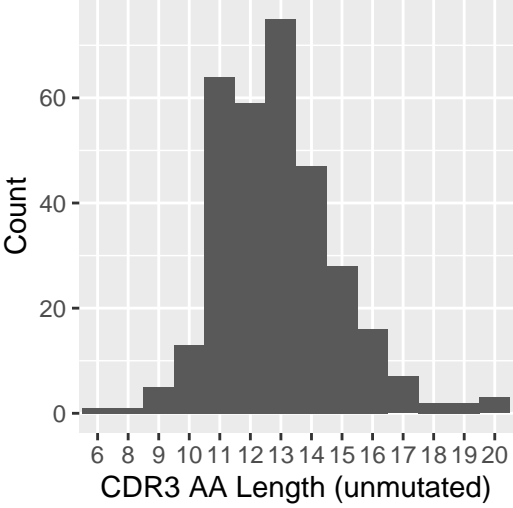
TRBV1*ap01_G303A

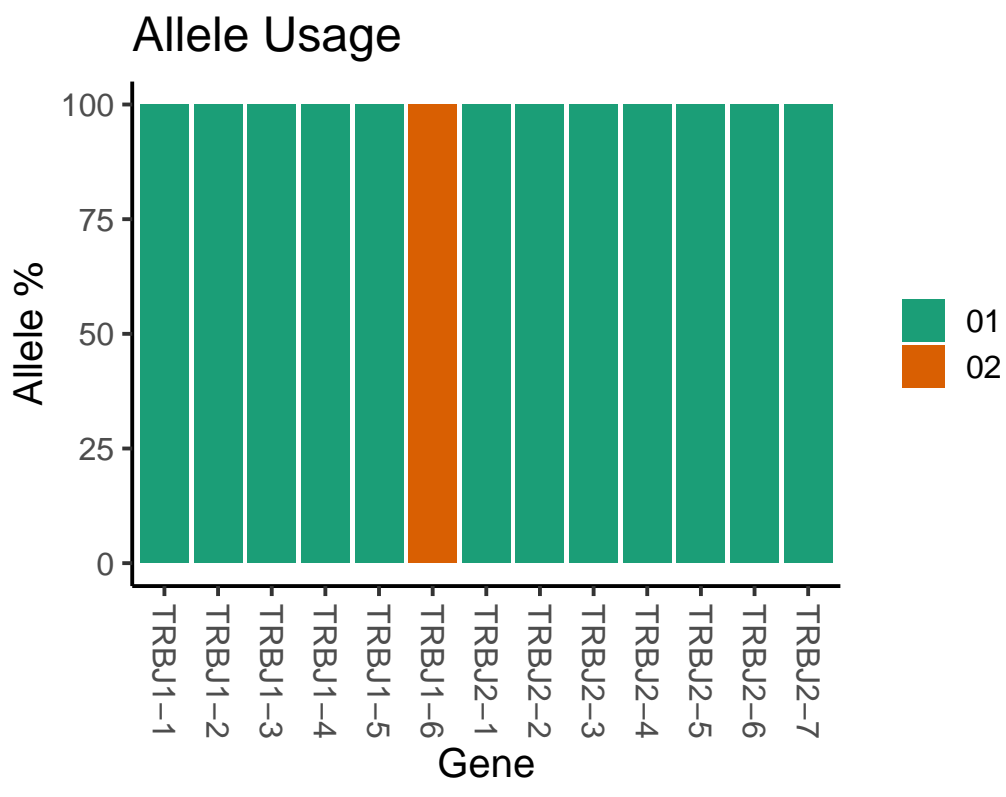


TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T





[illegible]