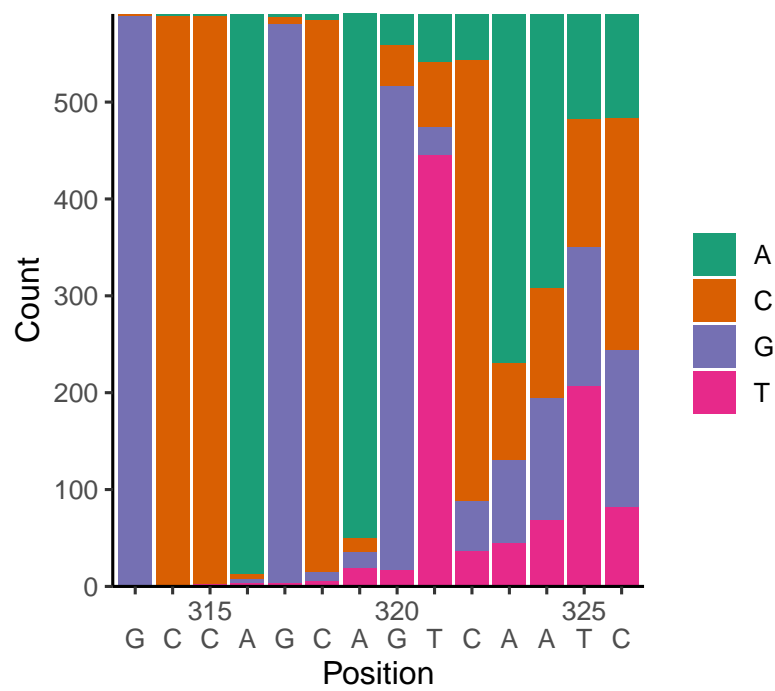
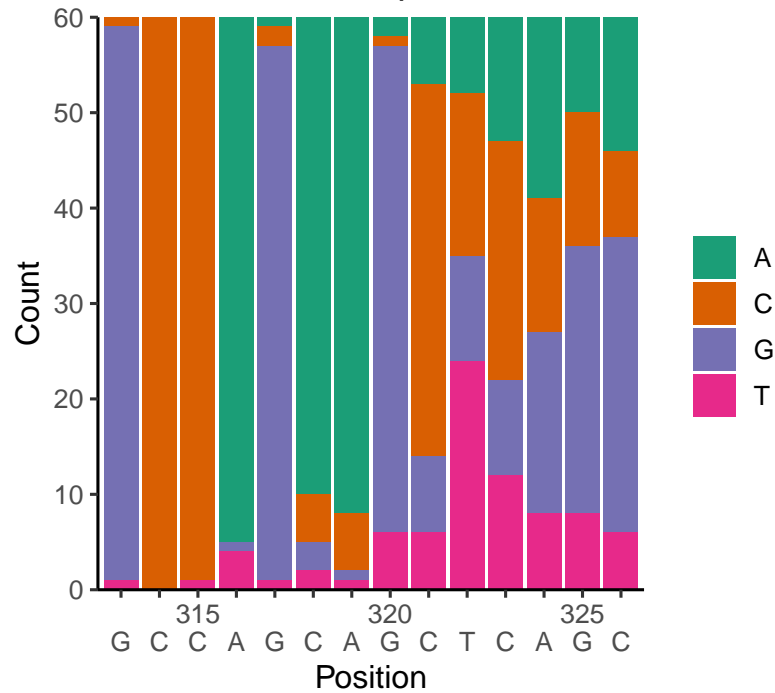


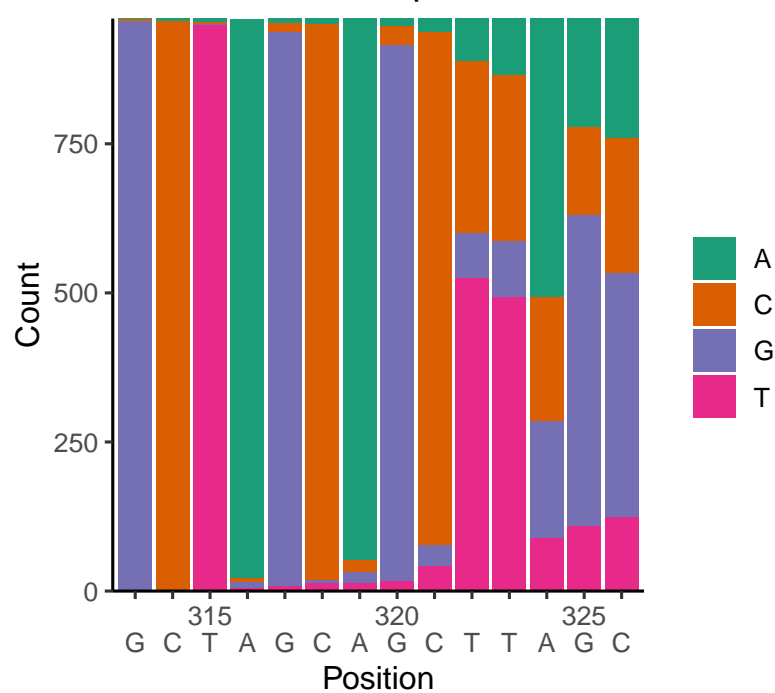
Gene TRBV23-1*ap01_T304C



Gene TRBV7-1*ap01_T296C



Gene TRBV7-7*ap01_C315T



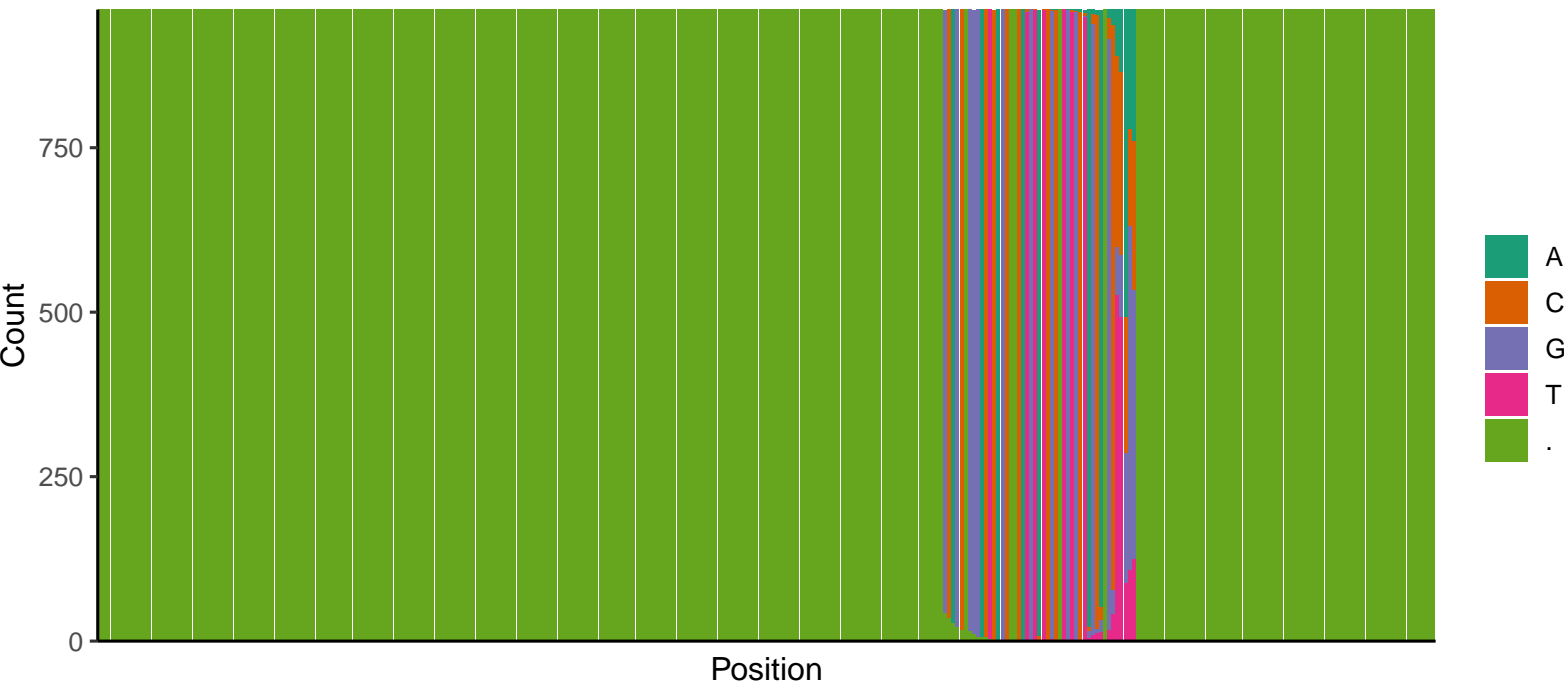
Gene TRBV23-1*ap01_T304C



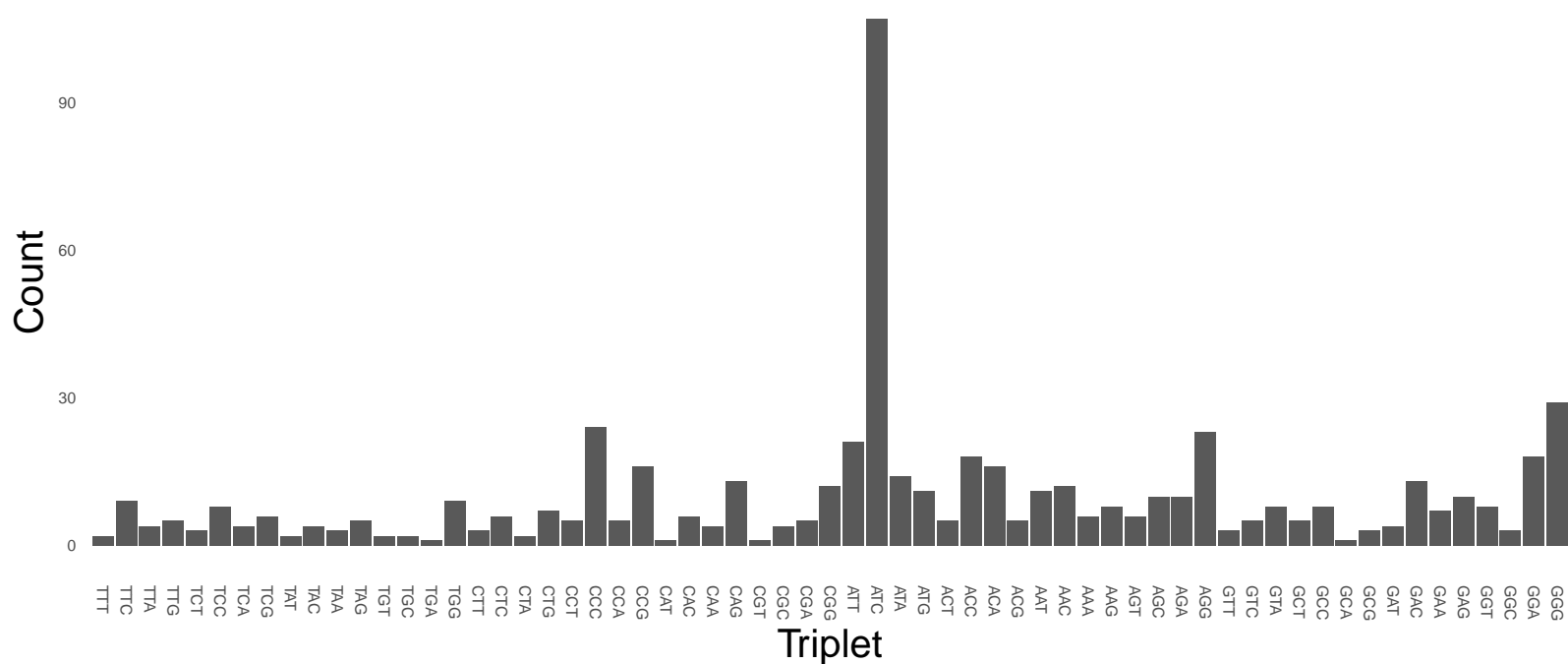
Gene TRBV7-1*ap01_T296C



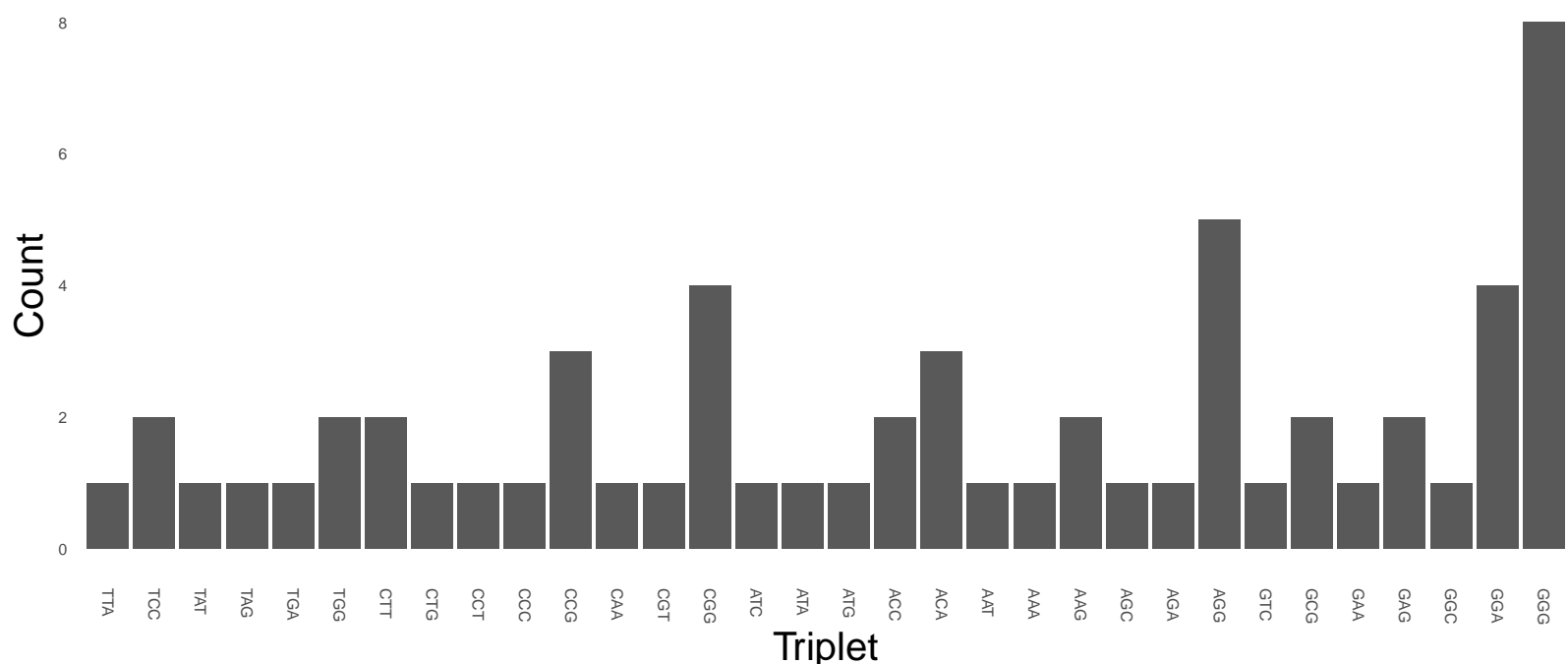
Gene TRBV7-7*ap01_C315T



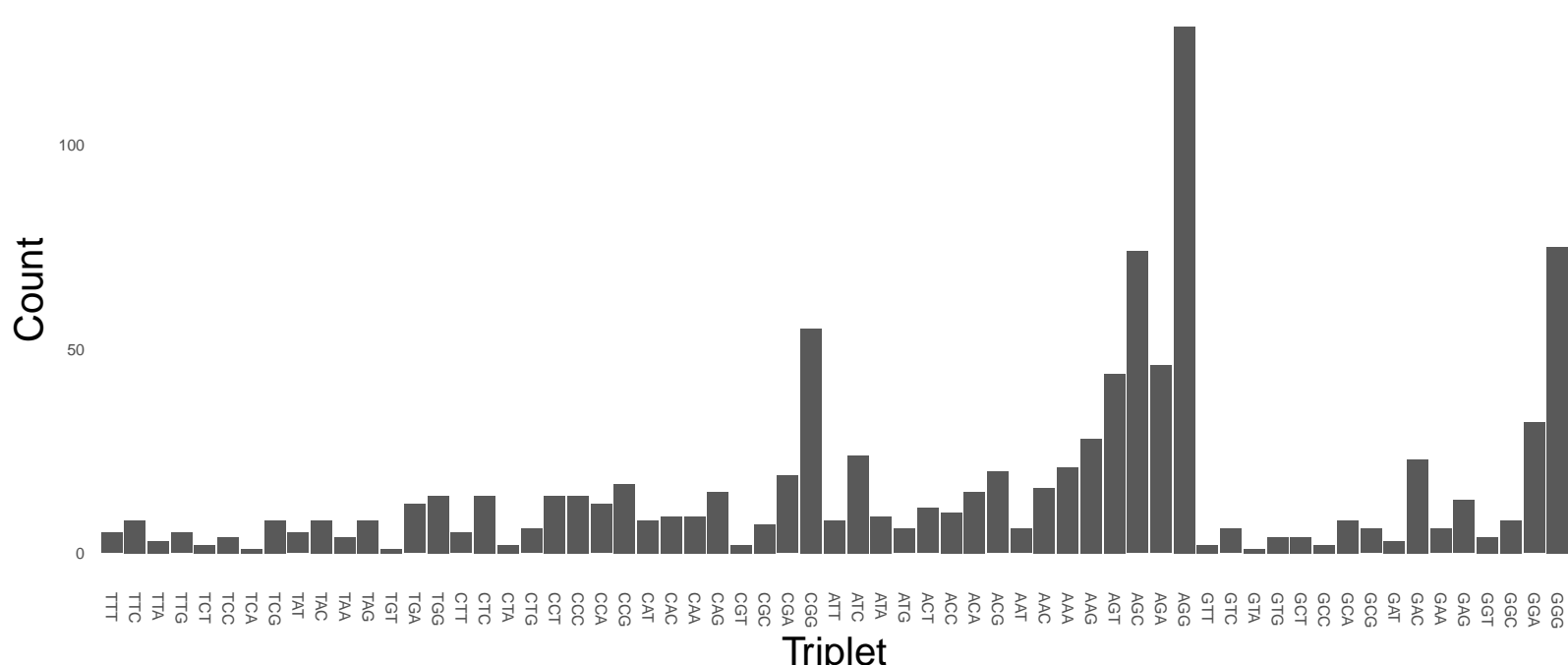
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



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

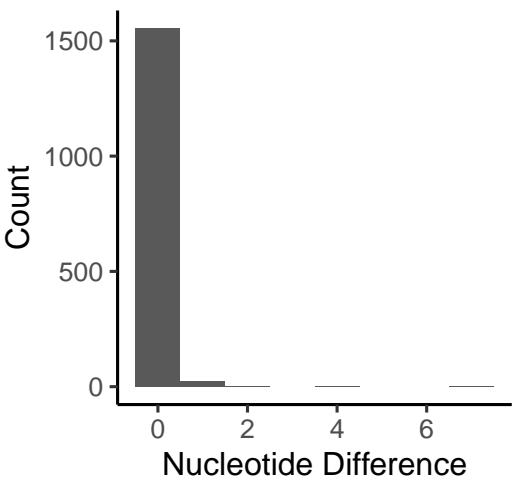


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



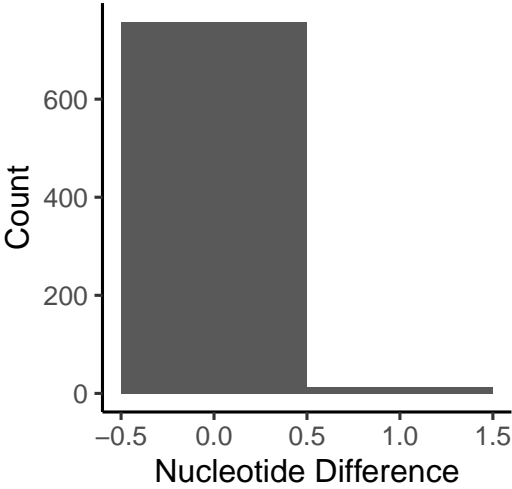
TRBV10-1*ap01

1583 sequences assigned
1554 (98.2%) exact matches, in which:
1545 unique CDR3
13 unique J



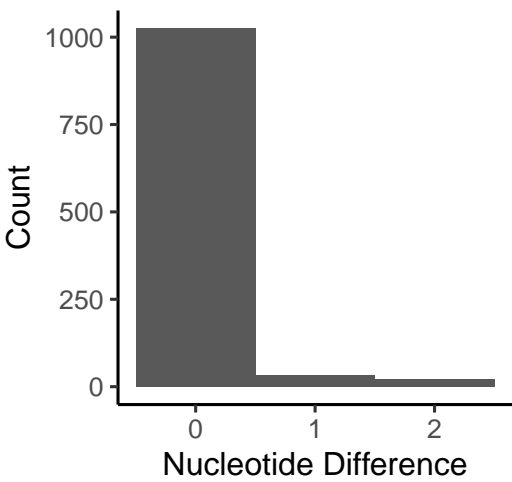
TRBV10-2*ap01

771 sequences assigned
758 (98.3%) exact matches, in which:
753 unique CDR3
13 unique J



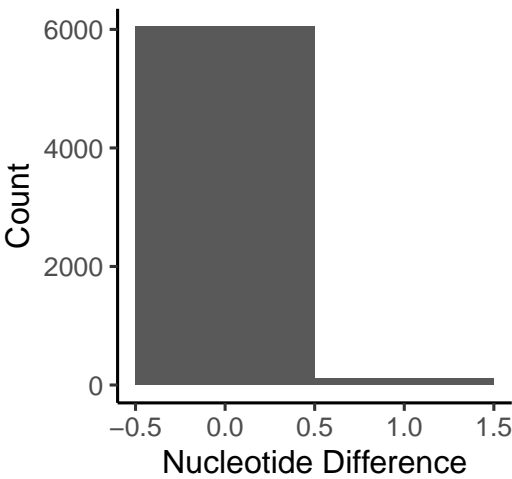
TRBV13*ap01

1078 sequences assigned
1025 (95.1%) exact matches, in which:
1008 unique CDR3
13 unique J



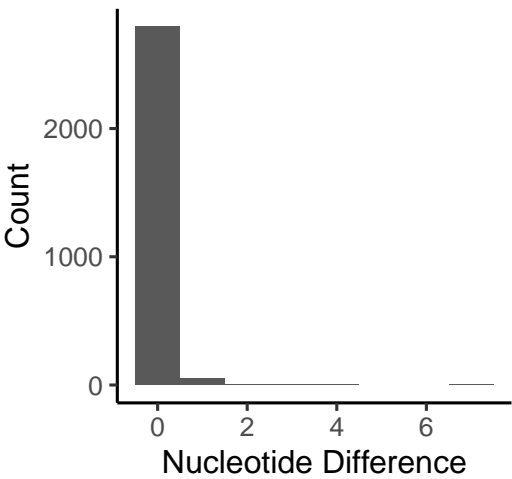
TRBV20-1*ap01

6162 sequences assigned
6045 (98.1%) exact matches, in which:
6008 unique CDR3
13 unique J



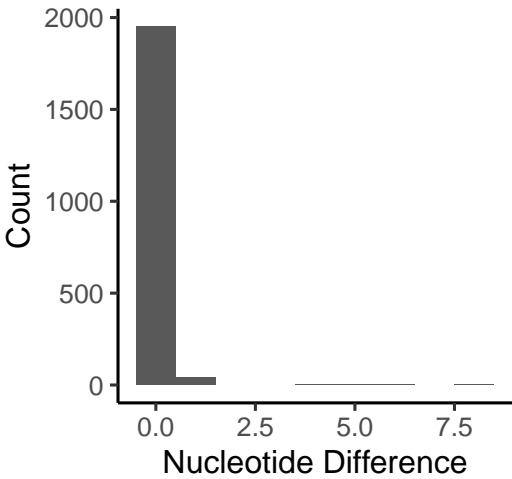
TRBV10-3*ap01

2852 sequences assigned
2794 (98%) exact matches, in which:
2777 unique CDR3
13 unique J



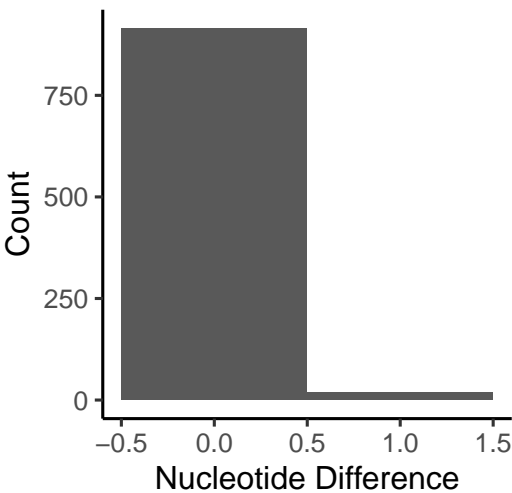
TRBV14*ap01

1994 sequences assigned
1950 (97.8%) exact matches, in which:
1934 unique CDR3
13 unique J



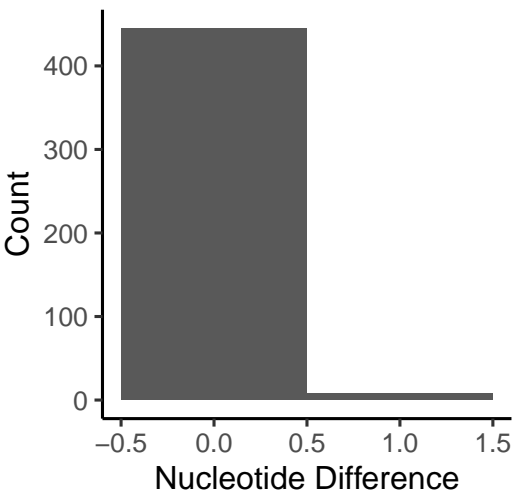
TRBV20-1*ap02

934 sequences assigned
915 (98%) exact matches, in which:
908 unique CDR3
13 unique J



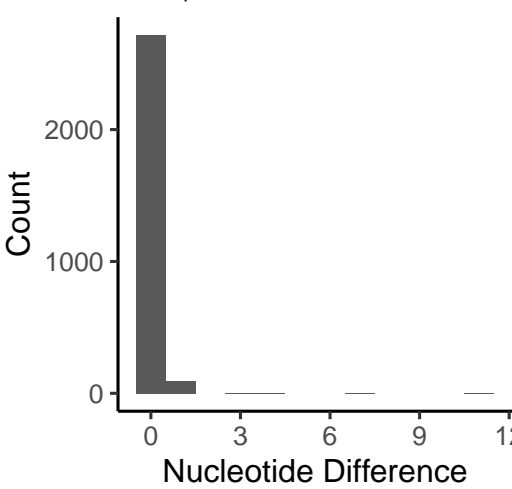
TRBV1*ap01

453 sequences assigned
445 (98.2%) exact matches, in which:
437 unique CDR3
13 unique J



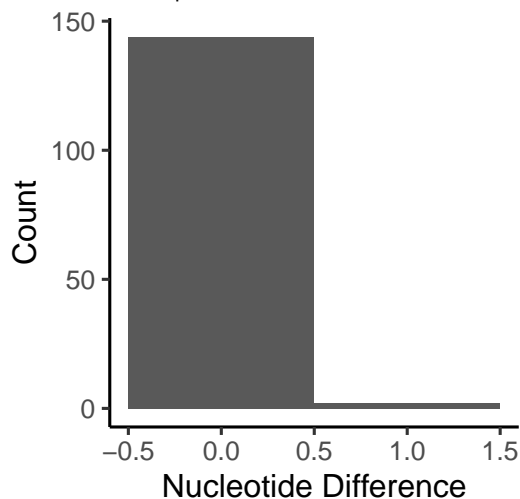
TRBV15*ap02

2815 sequences assigned
2717 (96.5%) exact matches, in which:
2683 unique CDR3
13 unique J



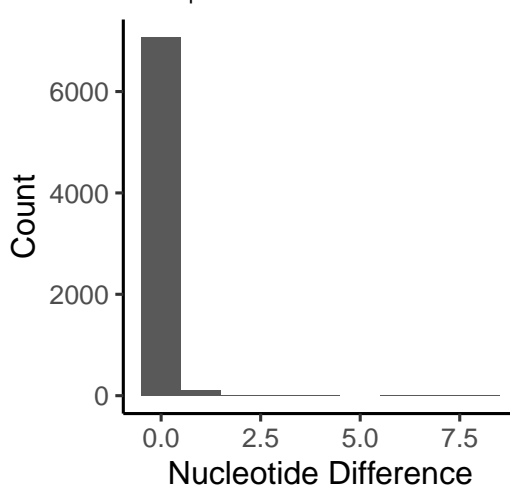
TRBV16*ap01

146 sequences assigned
144 (98.6%) exact matches, in which:
143 unique CDR3
13 unique J



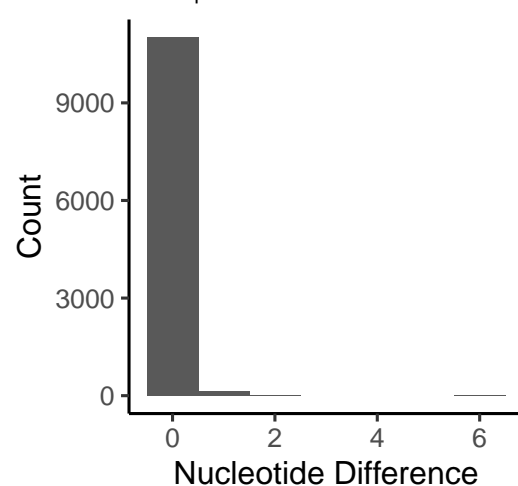
TRBV19*ap01

7182 sequences assigned
7068 (98.4%) exact matches, in which:
7031 unique CDR3
13 unique J



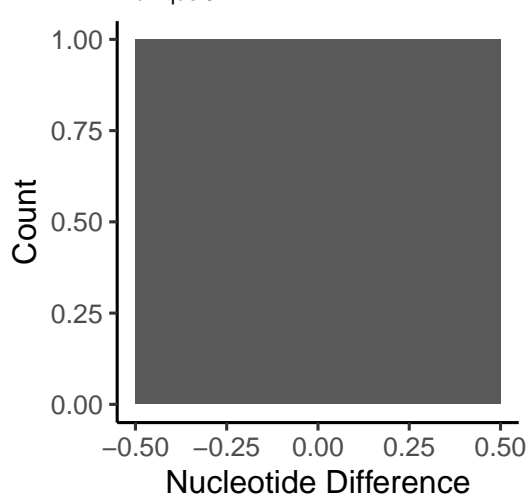
TRBV28*ap01

11164 sequences assigned
11012 (98.6%) exact matches, in which:
10951 unique CDR3
13 unique J



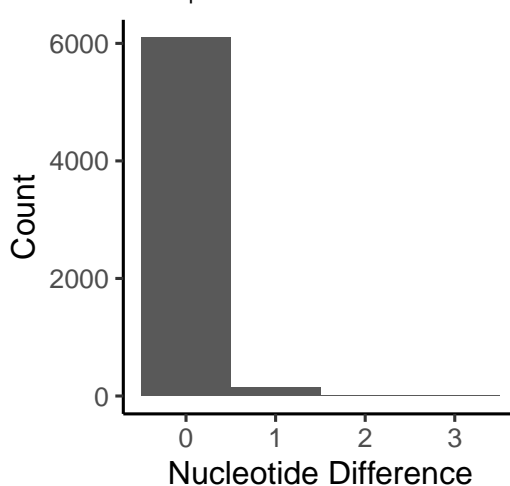
TRBV17*ap01

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



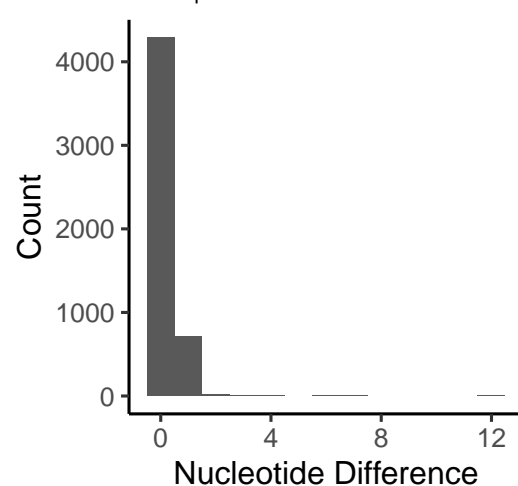
TRBV2*ap01

6247 sequences assigned
6096 (97.6%) exact matches, in which:
6054 unique CDR3
13 unique J



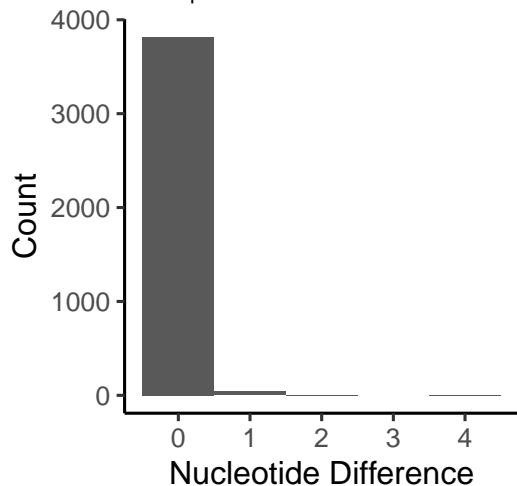
TRBV30*ap01

5038 sequences assigned
4288 (85.1%) exact matches, in which:
4204 unique CDR3
13 unique J



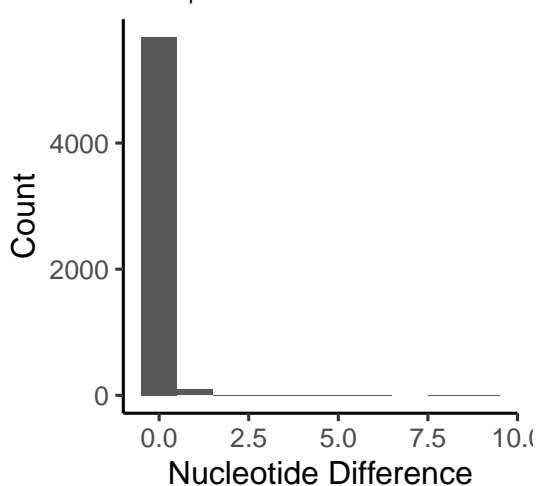
TRBV18*ap01

3858 sequences assigned
3816 (98.9%) exact matches, in which:
3803 unique CDR3
13 unique J



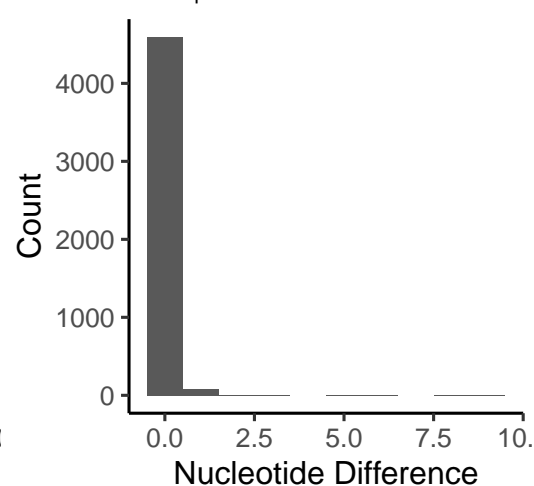
TRBV27*ap01

5785 sequences assigned
5681 (98.2%) exact matches, in which:
5645 unique CDR3
13 unique J



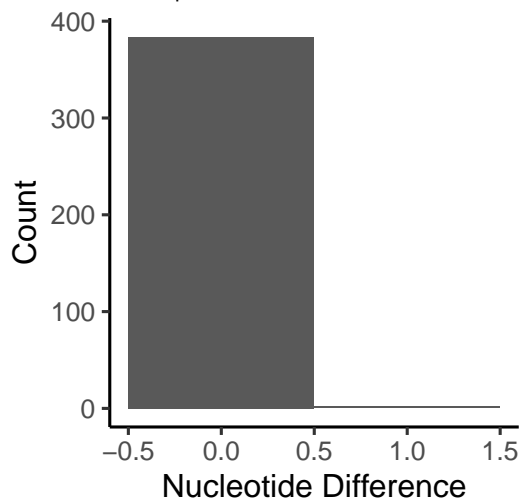
TRBV9*ap01

4688 sequences assigned
4594 (98%) exact matches, in which:
4559 unique CDR3
13 unique J



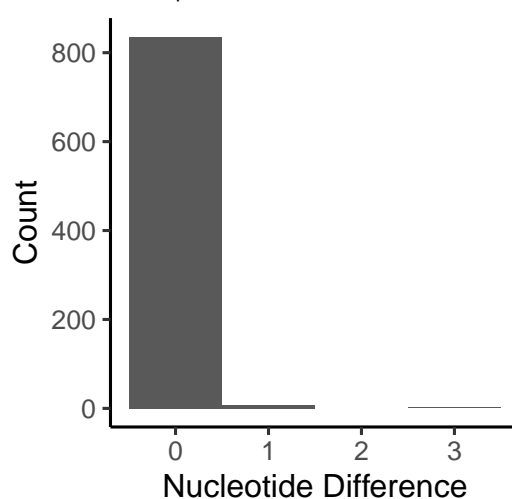
TRBV11–1*ap01

386 sequences assigned
384 (99.5%) exact matches, in which:
382 unique CDR3
13 unique J



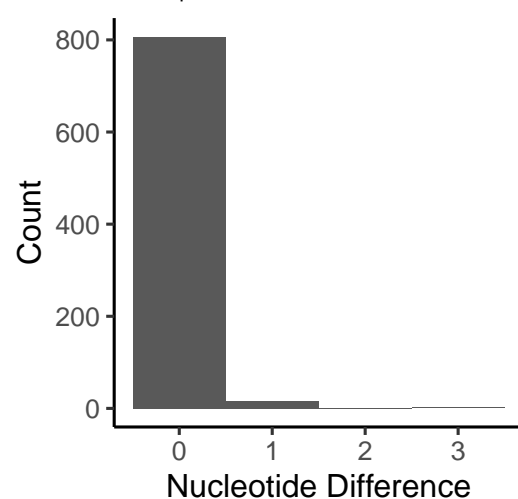
TRBV11–3*ap01

846 sequences assigned
836 (98.8%) exact matches, in which:
833 unique CDR3
13 unique J



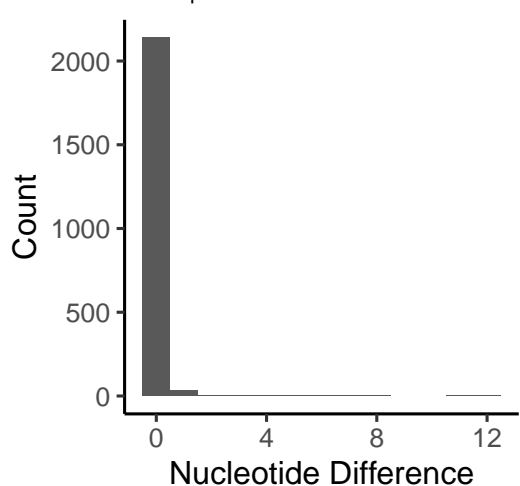
TRBV12–5*ap01

826 sequences assigned
807 (97.7%) exact matches, in which:
802 unique CDR3
13 unique J



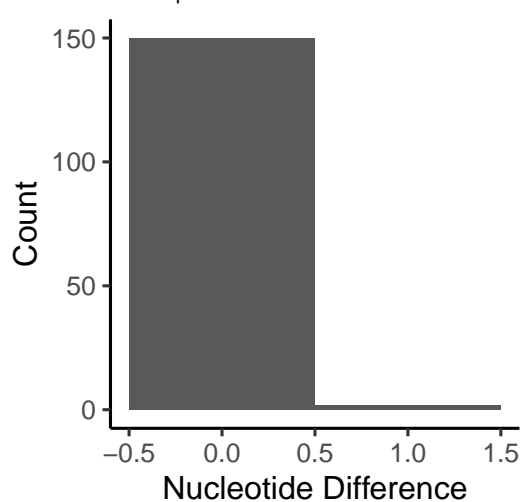
TRBV21–1*ap01

2187 sequences assigned
2139 (97.8%) exact matches, in which:
2131 unique CDR3
13 unique J



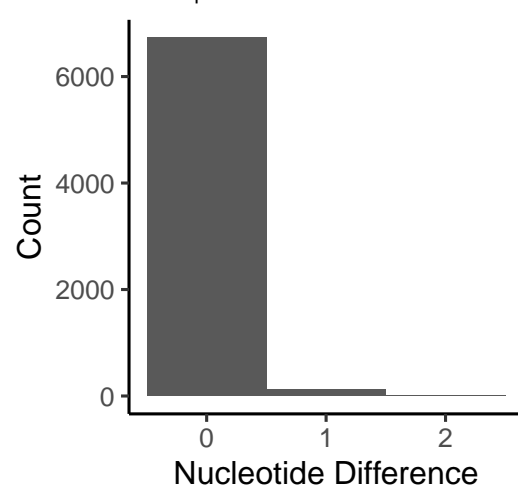
TRBV12–1*ap01

152 sequences assigned
150 (98.7%) exact matches, in which:
149 unique CDR3
13 unique J



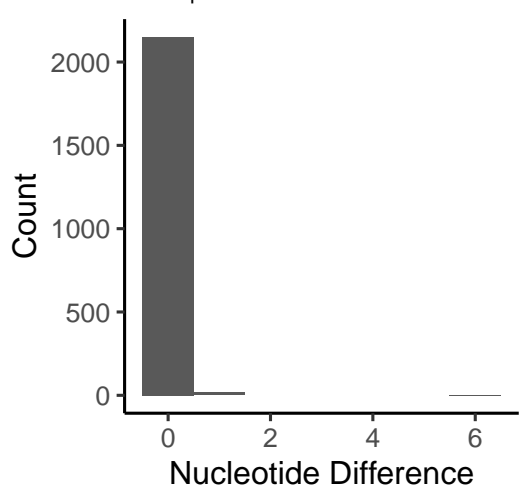
TRBV12–34*ap01

6852 sequences assigned
6729 (98.2%) exact matches, in which:
6675 unique CDR3
13 unique J



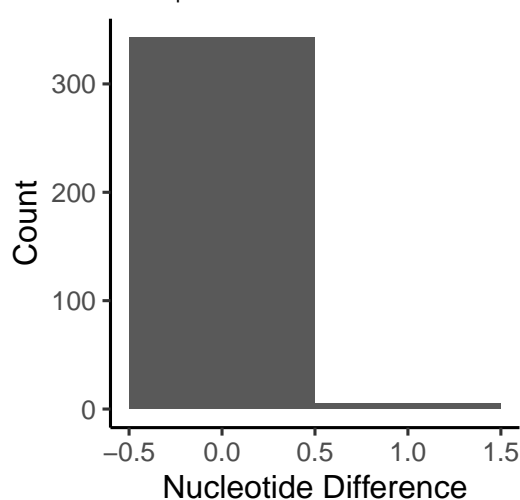
TRBV11–2*ap01

2169 sequences assigned
2150 (99.1%) exact matches, in which:
2139 unique CDR3
13 unique J



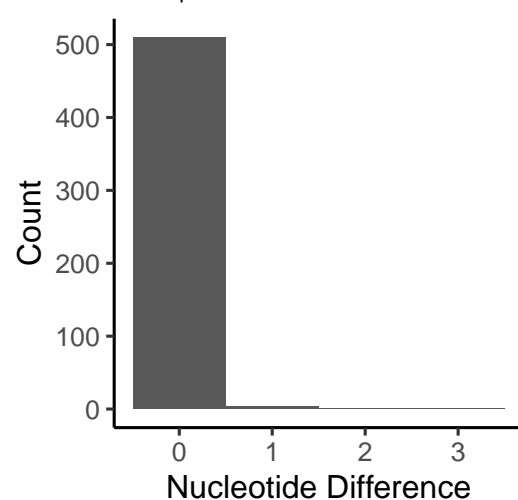
TRBV12–2*ap01

348 sequences assigned
343 (98.6%) exact matches, in which:
342 unique CDR3
13 unique J



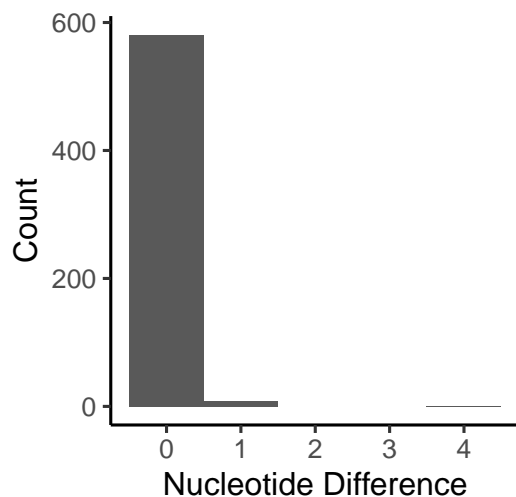
TRBV23–1*ap01

516 sequences assigned
510 (98.8%) exact matches, in which:
509 unique CDR3
13 unique J



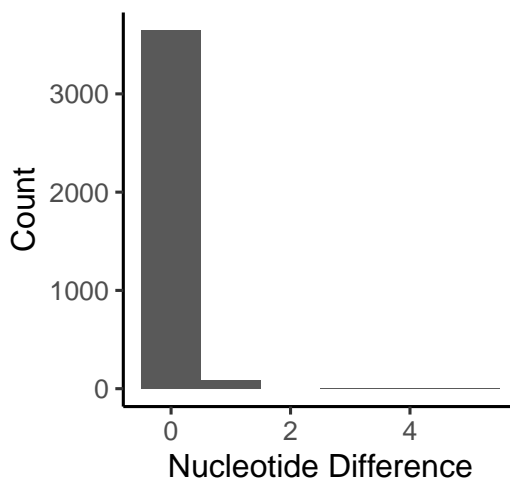
TRBV23–1*ap01_T304C

591 sequences assigned
581 (98.3%) exact matches, in which:
580 unique CDR3
13 unique J



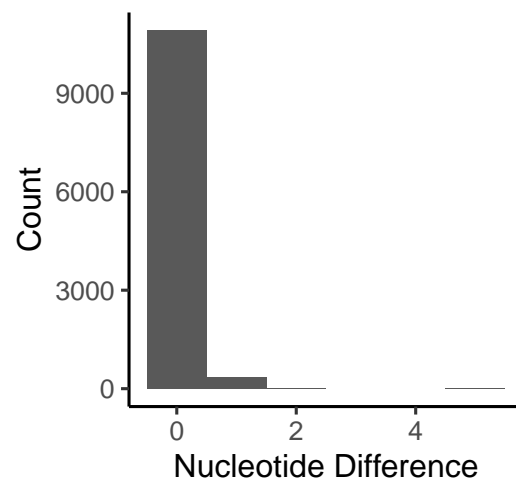
TRBV24–1*ap01

3738 sequences assigned
3646 (97.5%) exact matches, in which:
3612 unique CDR3
13 unique J



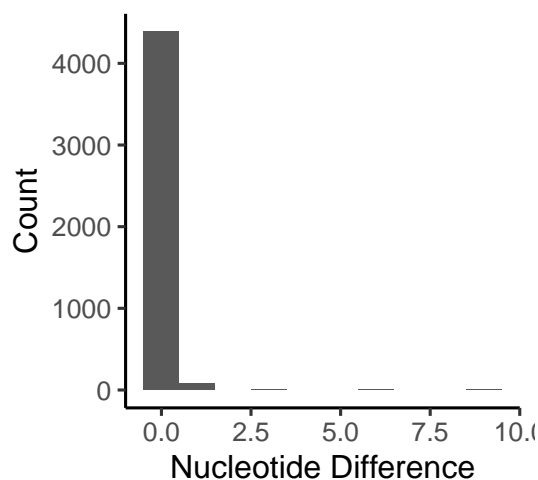
TRBV5–1*ap01

11275 sequences assigned
10916 (96.8%) exact matches, in which:
10814 unique CDR3
13 unique J



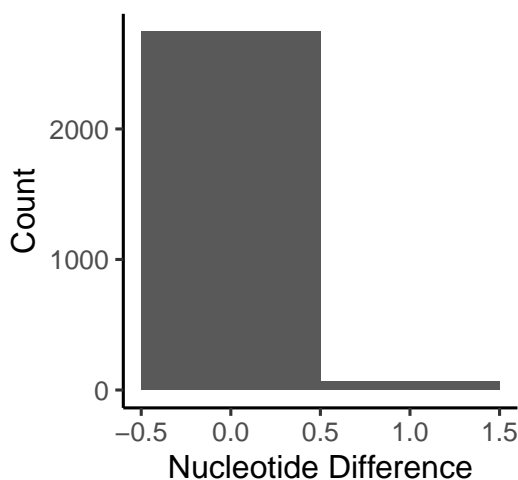
TRBV3–12*ap01

4471 sequences assigned
4387 (98.1%) exact matches, in which:
4369 unique CDR3
13 unique J



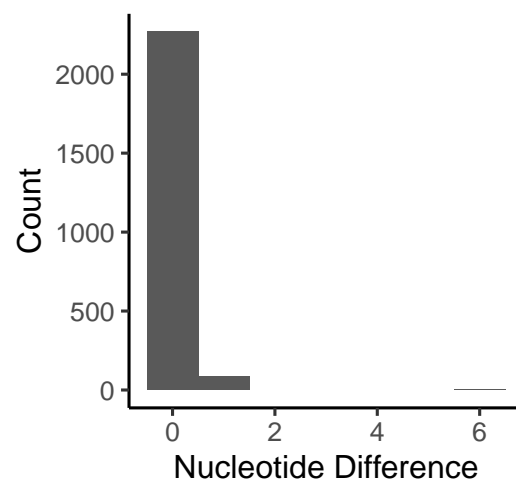
TRBV4–2*ap01

2812 sequences assigned
2745 (97.6%) exact matches, in which:
2703 unique CDR3
13 unique J



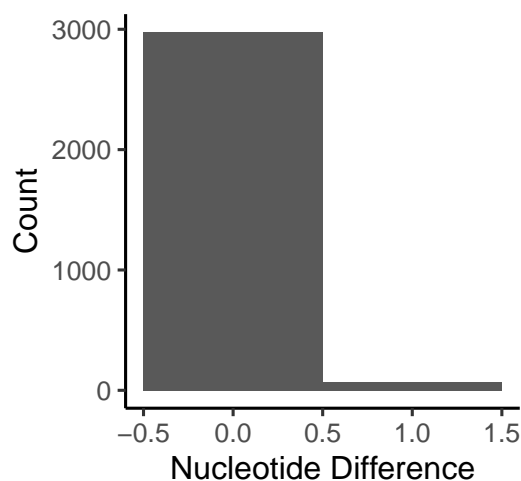
TRBV25–1*ap01

2354 sequences assigned
2269 (96.4%) exact matches, in which:
2236 unique CDR3
13 unique J



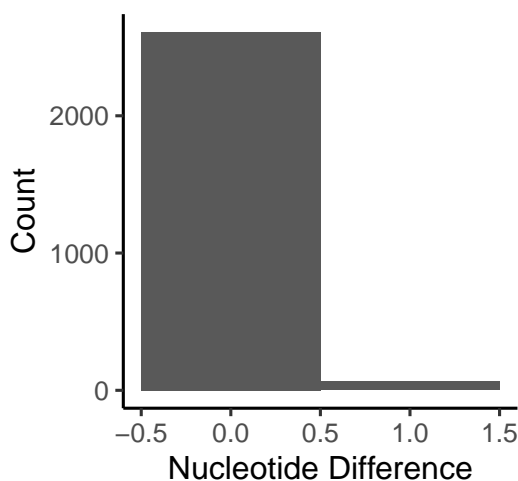
TRBV4–1*ap01

3046 sequences assigned
2977 (97.7%) exact matches, in which:
2944 unique CDR3
13 unique J



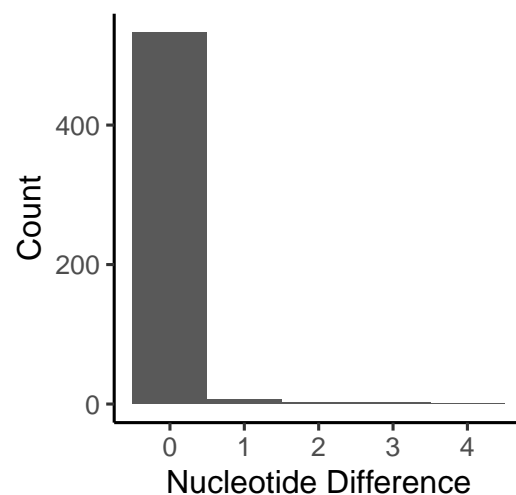
TRBV4–3*ap01

2673 sequences assigned
2610 (97.6%) exact matches, in which:
2579 unique CDR3
13 unique J



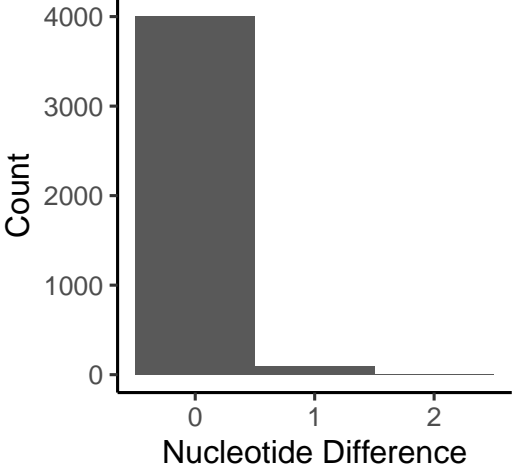
TRBV5–3*ap01

545 sequences assigned
533 (97.8%) exact matches, in which:
524 unique CDR3
13 unique J



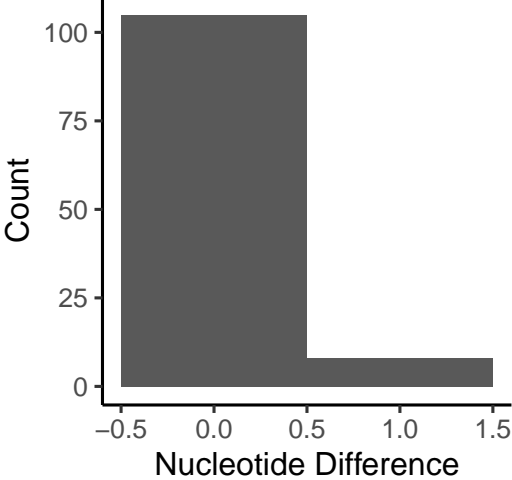
TRBV5-4*ap01

4103 sequences assigned
4002 (97.5%) exact matches, in which:
3965 unique CDR3
13 unique J



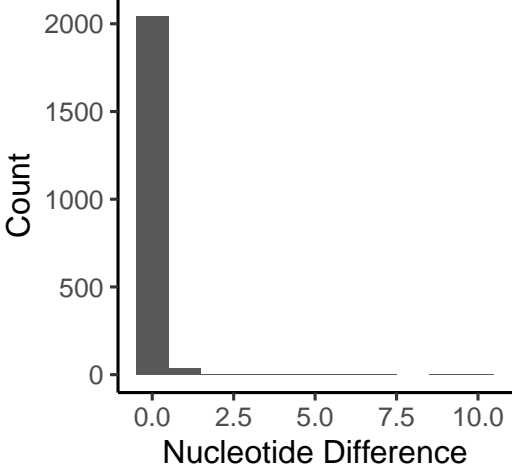
TRBV5-7*ap01

113 sequences assigned
105 (92.9%) exact matches, in which:
104 unique CDR3
13 unique J



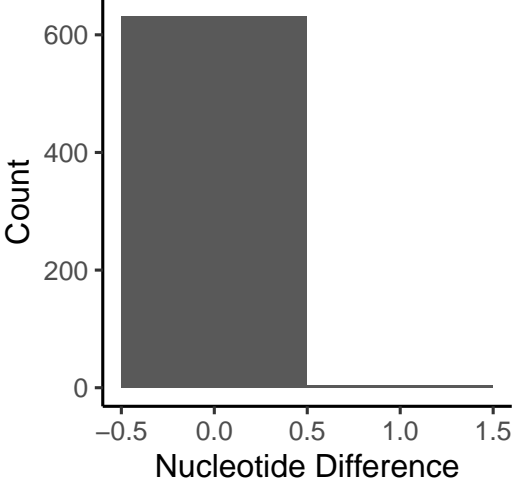
TRBV6-4*ap01

2091 sequences assigned
2042 (97.7%) exact matches, in which:
2026 unique CDR3
13 unique J



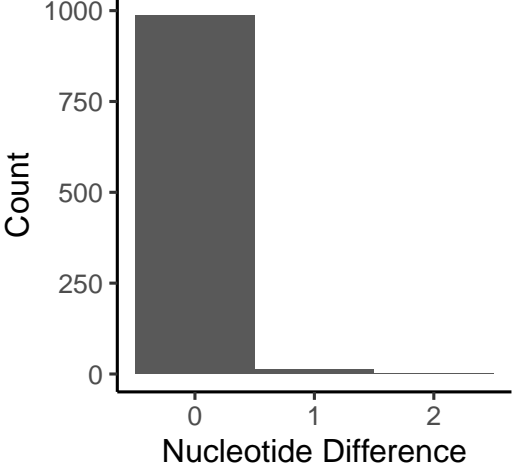
TRBV5-5*ap01

636 sequences assigned
632 (99.4%) exact matches, in which:
631 unique CDR3
13 unique J



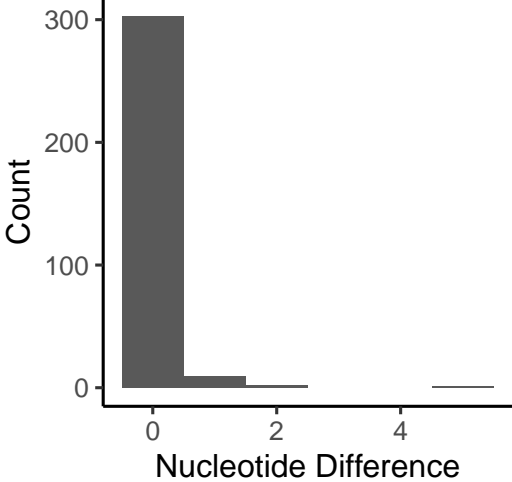
TRBV5-8*ap01

999 sequences assigned
986 (98.7%) exact matches, in which:
980 unique CDR3
13 unique J



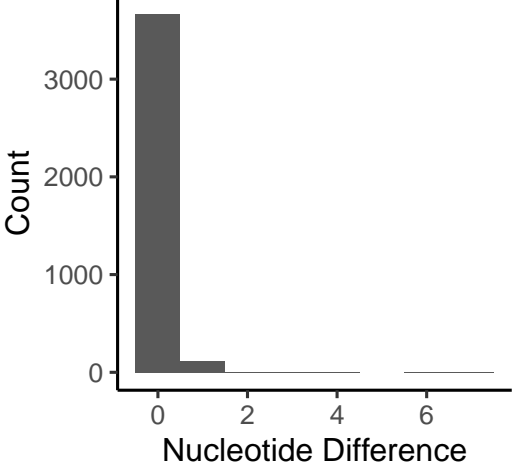
TRBV6-7*ap01

315 sequences assigned
303 (96.2%) exact matches, in which:
298 unique CDR3
13 unique J



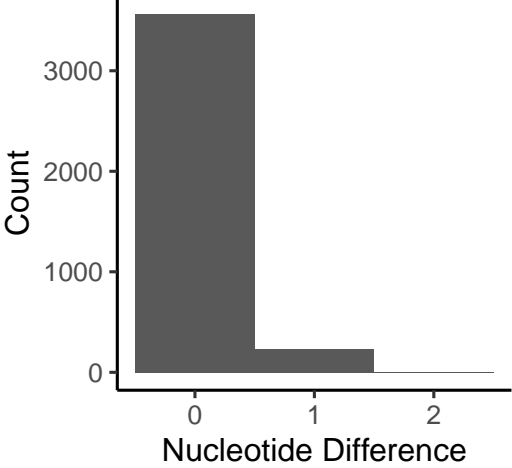
TRBV5-6*ap01

3789 sequences assigned
3666 (96.8%) exact matches, in which:
3601 unique CDR3
13 unique J



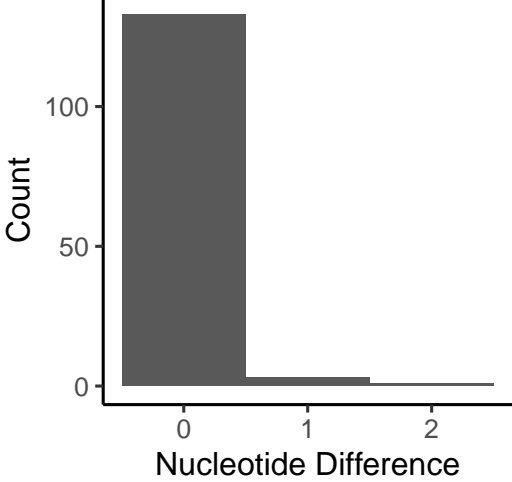
TRBV6-1*ap01

3803 sequences assigned
3564 (93.7%) exact matches, in which:
3521 unique CDR3
13 unique J



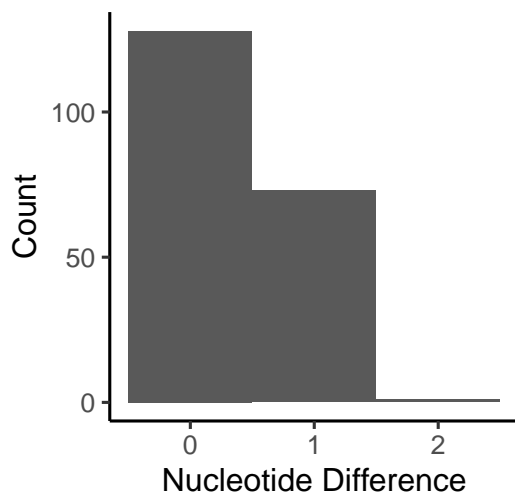
TRBV6-8*ap01

137 sequences assigned
133 (97.1%) exact matches, in which:
132 unique CDR3
12 unique J



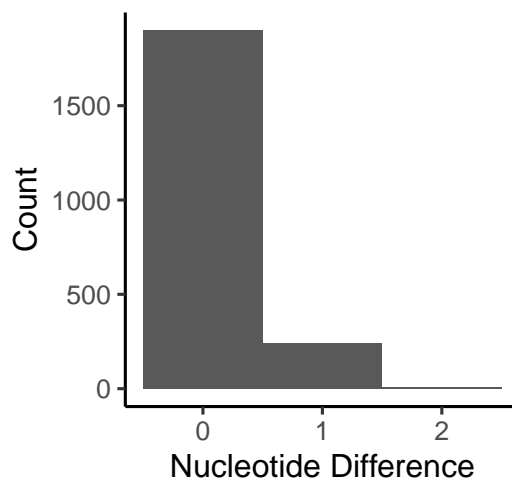
TRBV6-9*ap01

202 sequences assigned
128 (63.4%) exact matches, in which:
127 unique CDR3
13 unique J



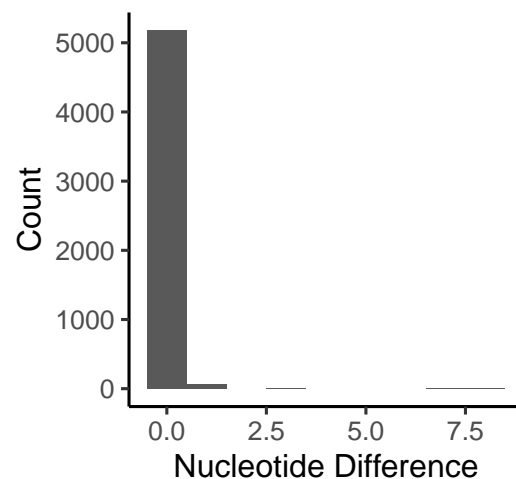
TRBV6-56*ap02

2145 sequences assigned
1899 (88.5%) exact matches, in which:
1872 unique CDR3
13 unique J



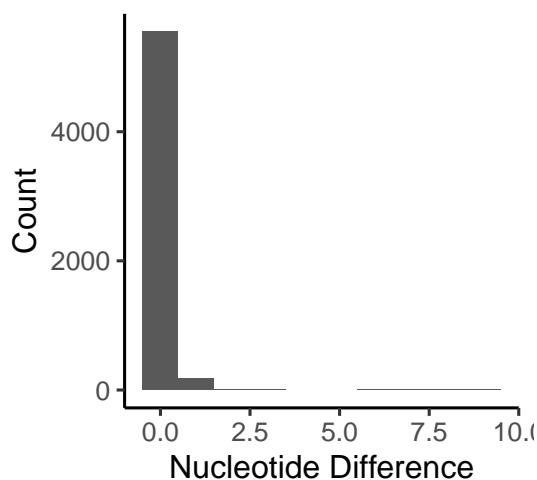
TRBV7-2*ap01

5247 sequences assigned
5179 (98.7%) exact matches, in which:
5148 unique CDR3
13 unique J



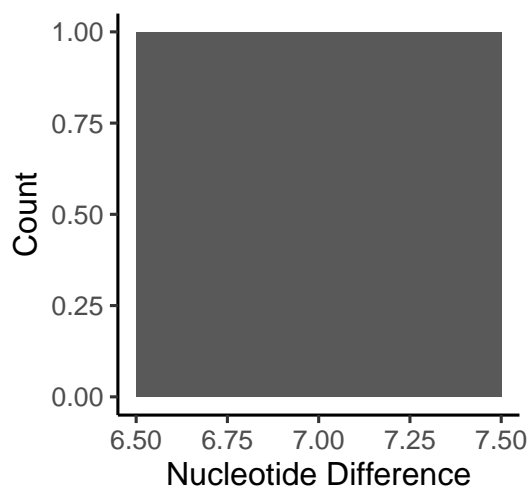
TRBV6-23*ap01

5732 sequences assigned
5549 (96.8%) exact matches, in which:
5458 unique CDR3
13 unique J



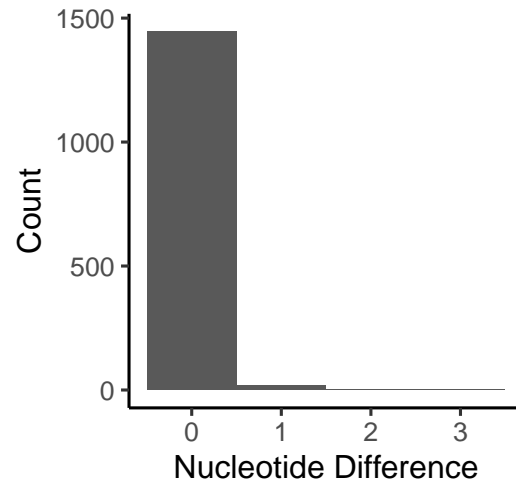
TRBV7-1*ap01

1 sequences assigned
No exact matches.



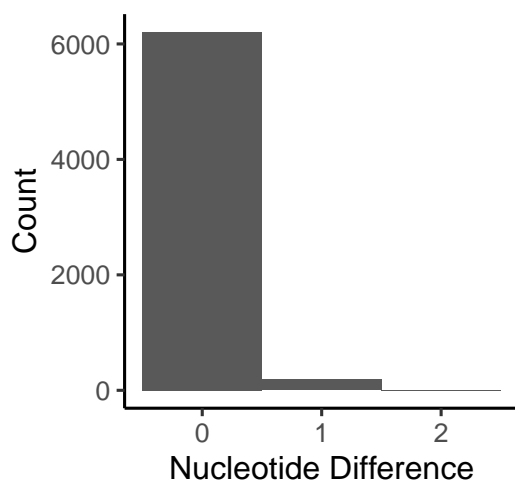
TRBV7-3*ap01

1467 sequences assigned
1445 (98.5%) exact matches, in which:
1443 unique CDR3
13 unique J



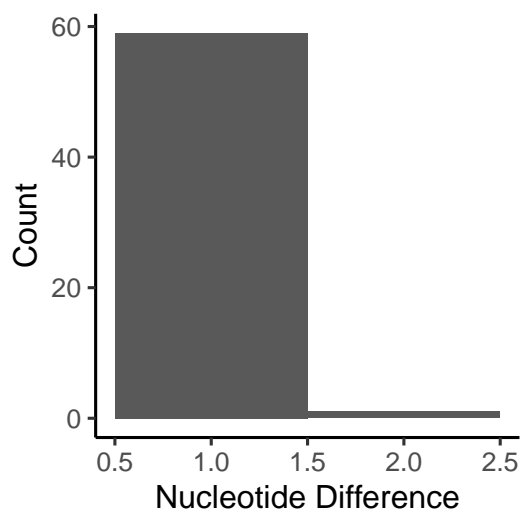
TRBV6-56*ap01

6393 sequences assigned
6206 (97.1%) exact matches, in which:
6119 unique CDR3
13 unique J



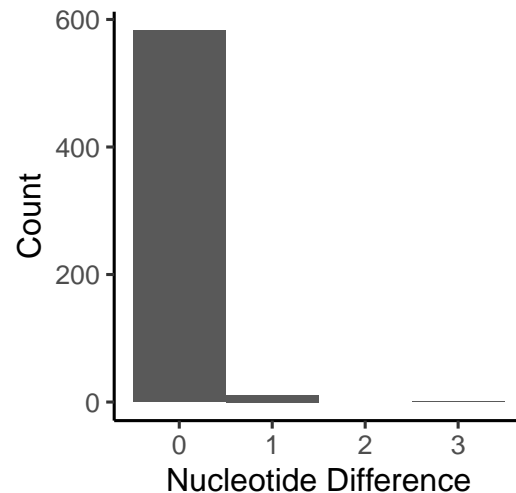
TRBV7-1*ap01_T296C

60 sequences assigned
No exact matches.



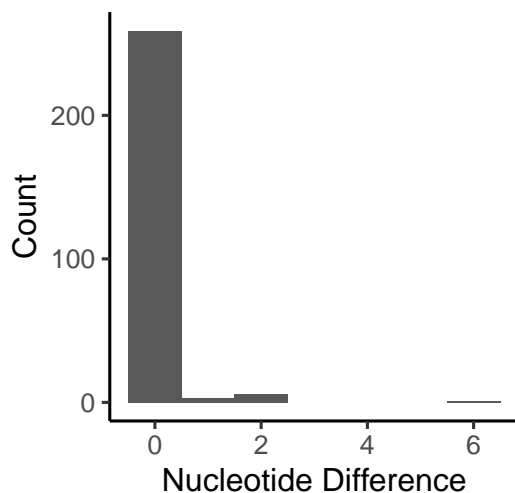
TRBV7-3*ap03

595 sequences assigned
583 (98%) exact matches, in which:
574 unique CDR3
12 unique J



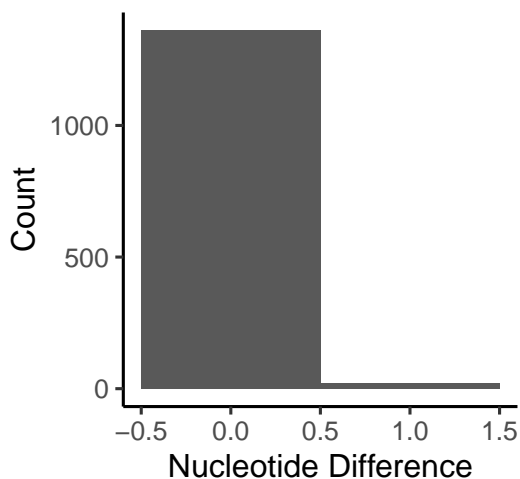
TRBV7-4*ap01

269 sequences assigned
259 (96.3%) exact matches, in which:
255 unique CDR3
13 unique J



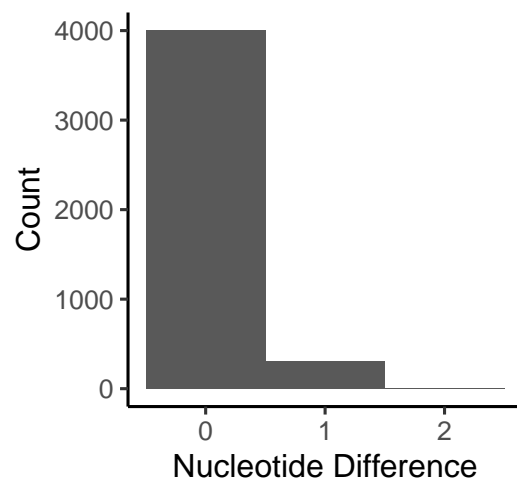
TRBV7-8*ap01

1381 sequences assigned
1361 (98.6%) exact matches, in which:
1342 unique CDR3
13 unique J



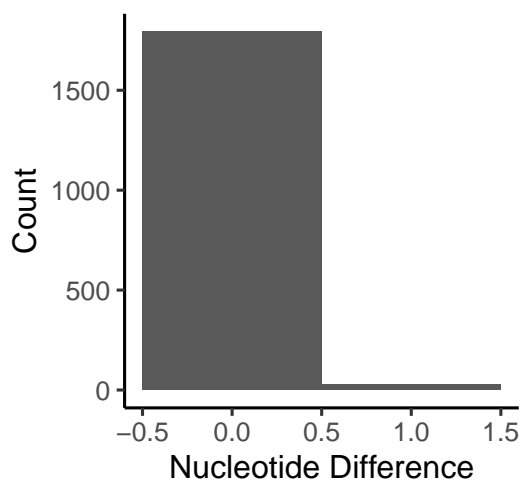
TRBV29-1*ap01

4313 sequences assigned
4002 (92.8%) exact matches, in which:
3928 unique CDR3
13 unique J



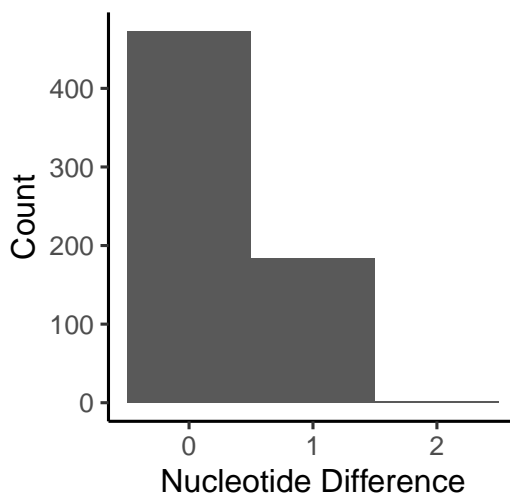
TRBV7-6*ap01

1823 sequences assigned
1793 (98.4%) exact matches, in which:
1779 unique CDR3
13 unique J



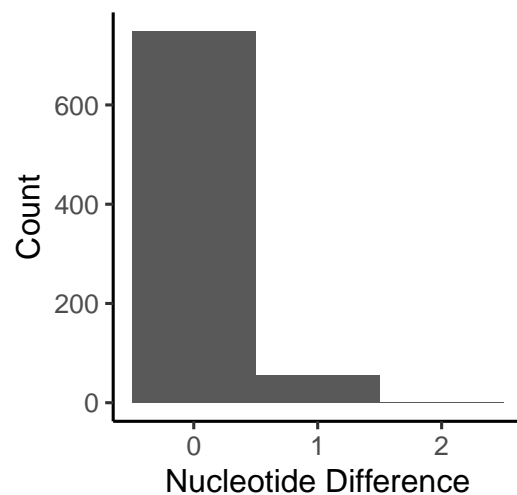
TRBV7-8*ap03

659 sequences assigned
473 (71.8%) exact matches, in which:
473 unique CDR3
13 unique J



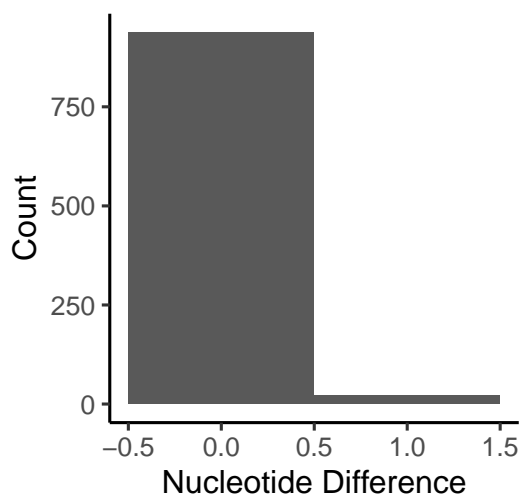
TRBV29-1*ap02

806 sequences assigned
749 (92.9%) exact matches, in which:
742 unique CDR3
13 unique J



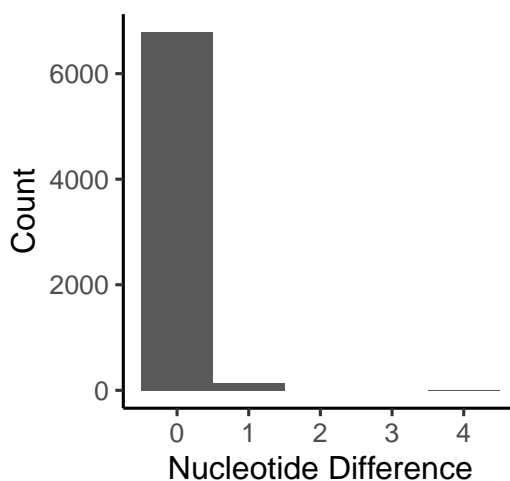
TRBV7-7*ap01_C315T

960 sequences assigned
938 (97.7%) exact matches, in which:
931 unique CDR3
13 unique J

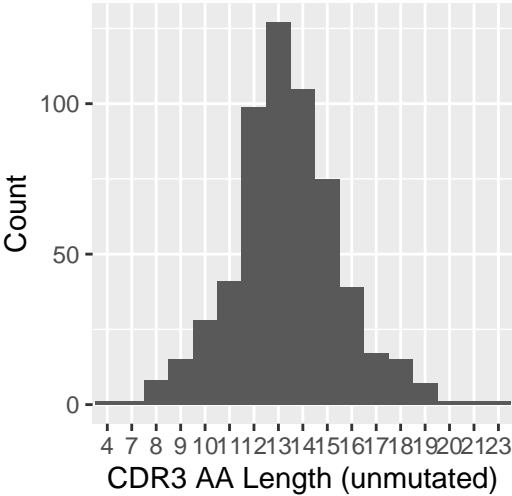


TRBV7-9*ap01

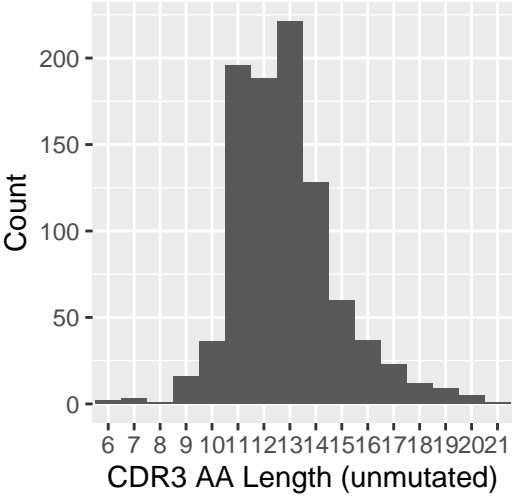
6922 sequences assigned
6788 (98.1%) exact matches, in which:
6730 unique CDR3
13 unique J



TRBV23-1*ap01_T304C



TRBV7-7*ap01_C315T





[illegible]