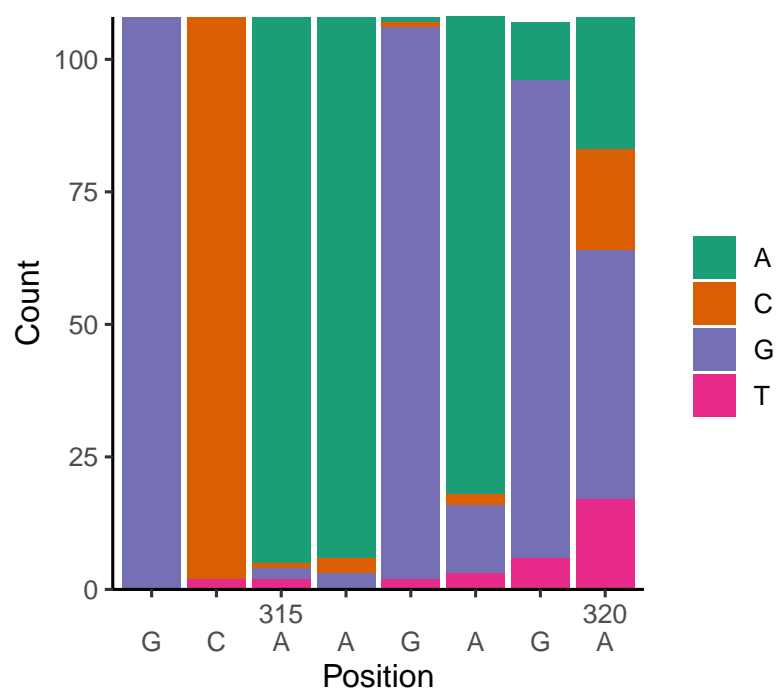


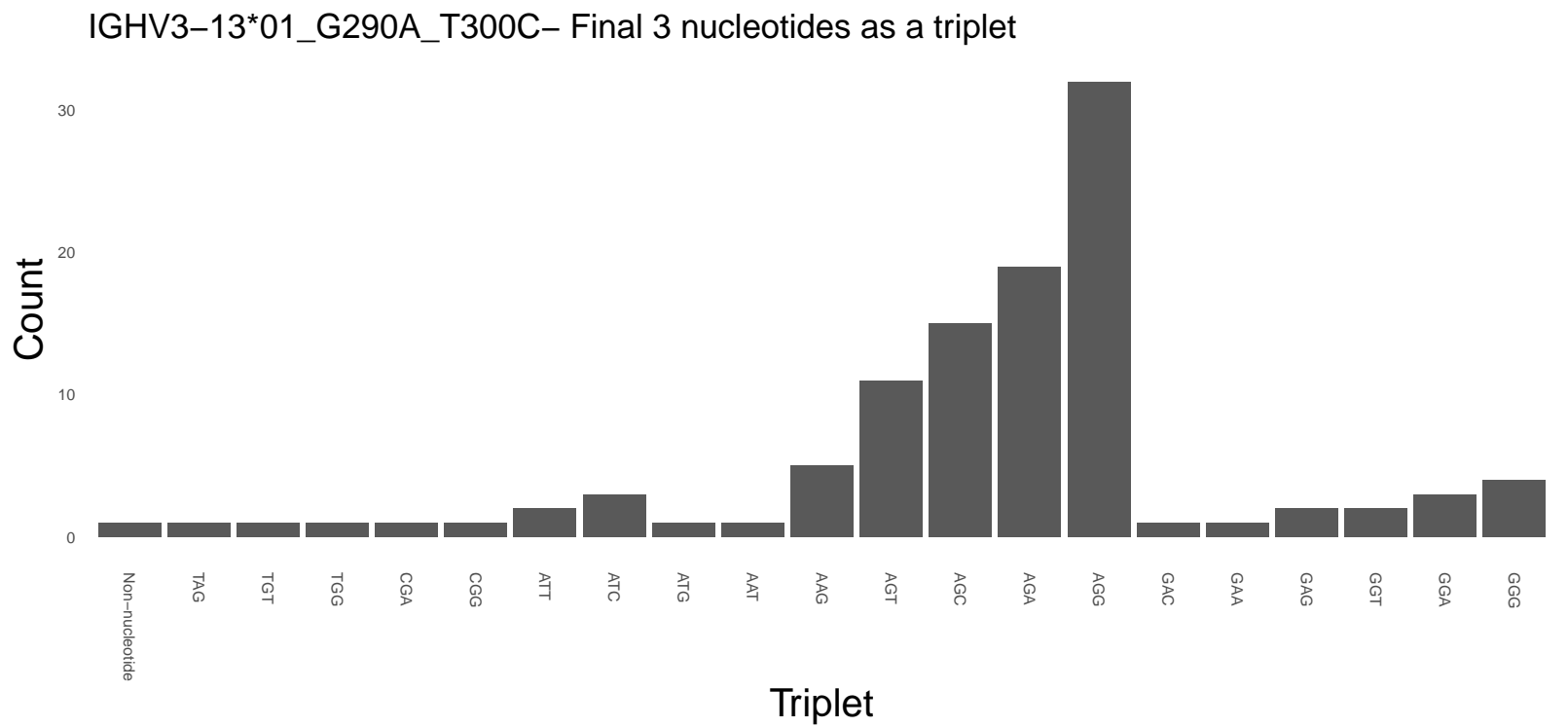
Gene IGHV3-13*01_G290A_T300C



Gene IGHV3-13*01_G290A_T300C

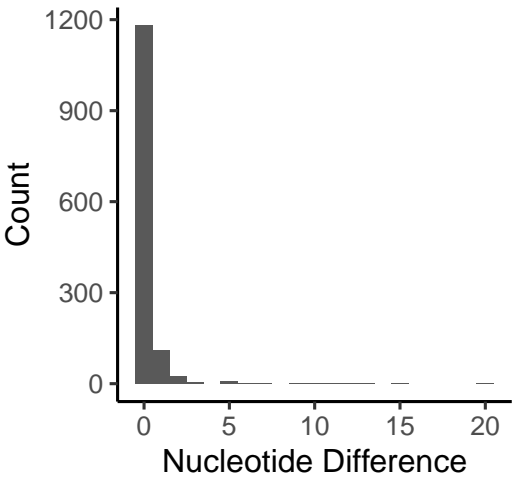


IGHV3-13*01_G290A_T300C- Final 3 nucleotides as a triplet



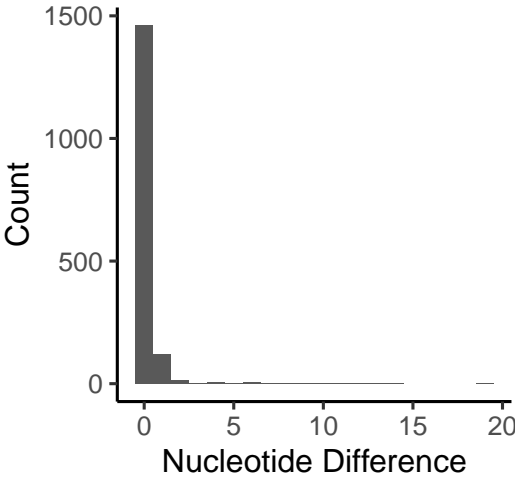
IGHV1-2*02

1345 sequences assigned
1181 (87.8%) exact matches, in which:
1102 unique CDR3
6 unique J



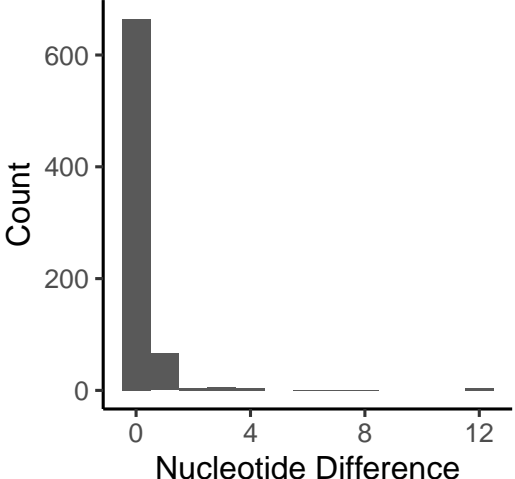
IGHV1-18*01

1633 sequences assigned
1461 (89.5%) exact matches, in which:
1388 unique CDR3
6 unique J



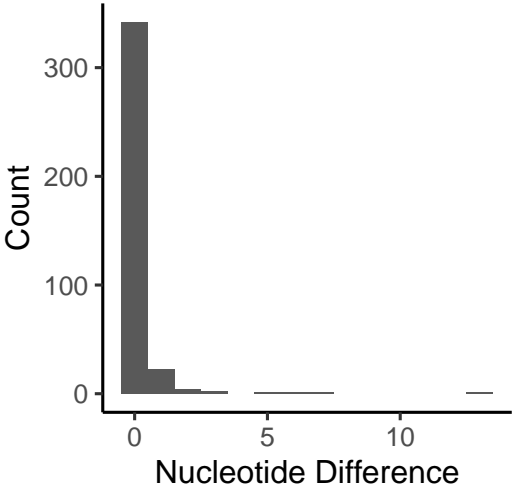
IGHV1-46*01

753 sequences assigned
665 (88.3%) exact matches, in which:
629 unique CDR3
6 unique J



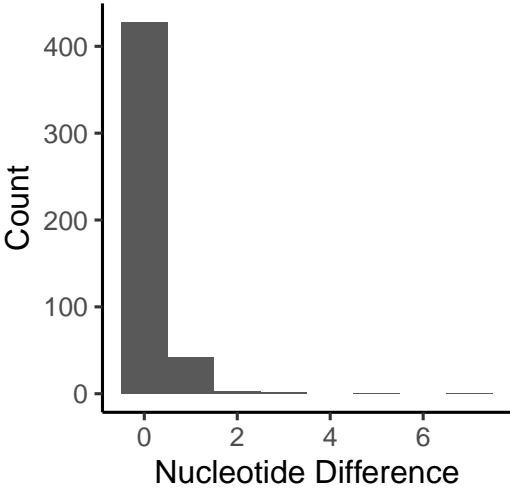
IGHV1-2*04

375 sequences assigned
342 (91.2%) exact matches, in which:
326 unique CDR3
5 unique J



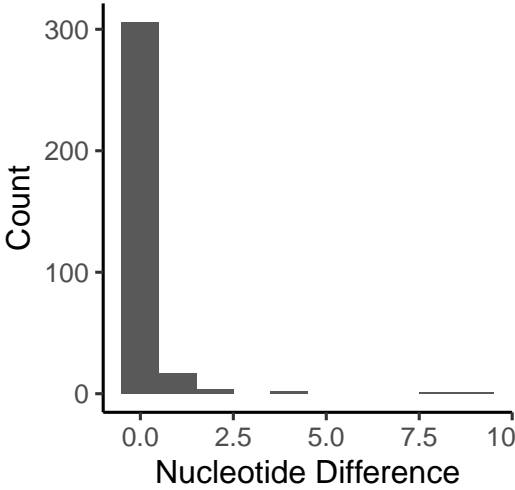
IGHV1-24*01

477 sequences assigned
428 (89.7%) exact matches, in which:
405 unique CDR3
6 unique J



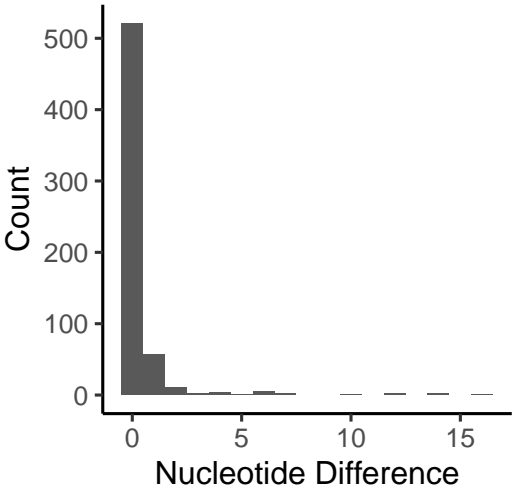
IGHV1-46*03

331 sequences assigned
306 (92.4%) exact matches, in which:
290 unique CDR3
6 unique J



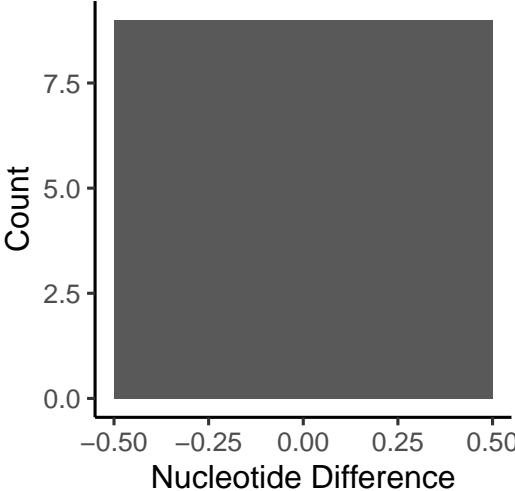
IGHV1-3*01

608 sequences assigned
521 (85.7%) exact matches, in which:
496 unique CDR3
6 unique J



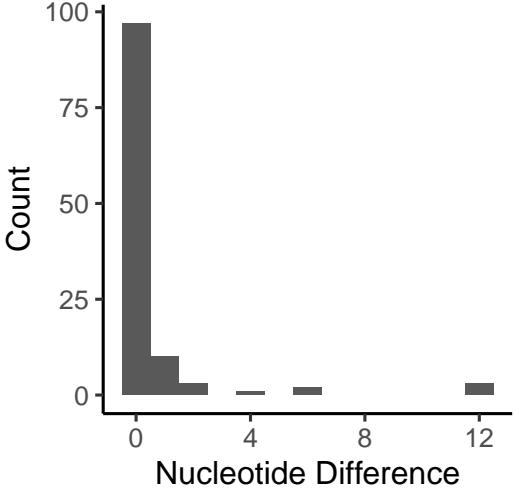
IGHV1-45*02

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
5 unique J



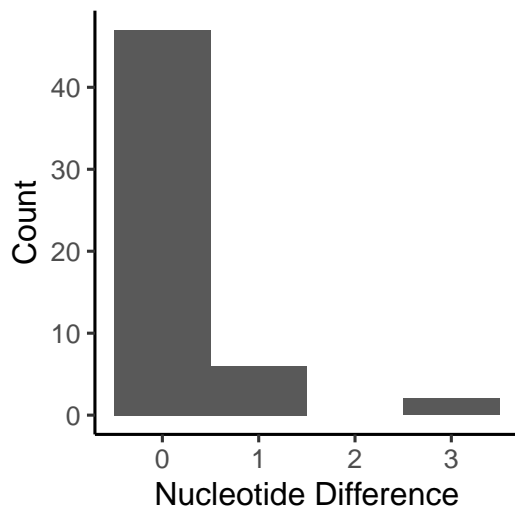
IGHV1-58*01

116 sequences assigned
97 (83.6%) exact matches, in which:
89 unique CDR3
6 unique J



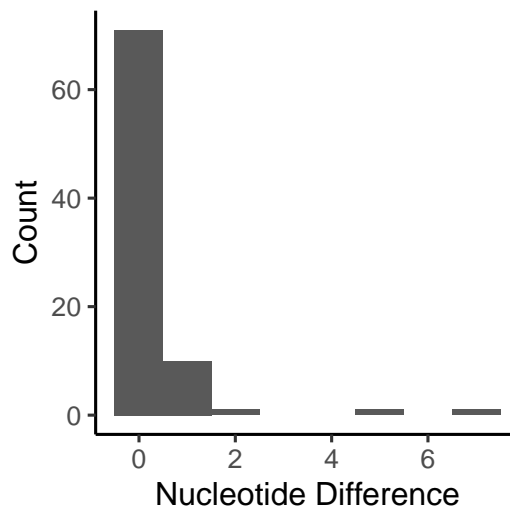
IGHV1-58*02

55 sequences assigned
47 (85.5%) exact matches, in which:
43 unique CDR3
5 unique J



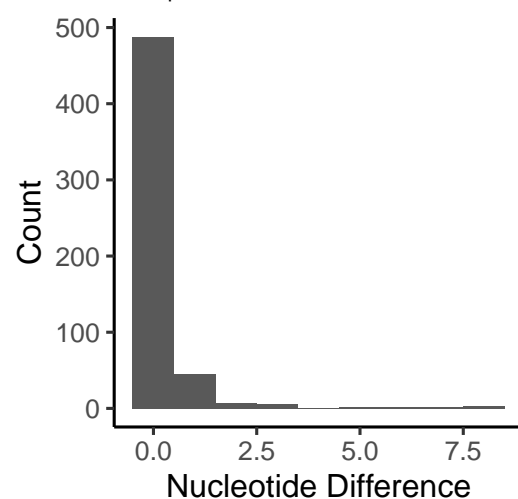
IGHV1-69-2*01

84 sequences assigned
71 (84.5%) exact matches, in which:
67 unique CDR3
5 unique J



IGHV2-5*02

558 sequences assigned
488 (87.5%) exact matches, in which:
454 unique CDR3
6 unique J



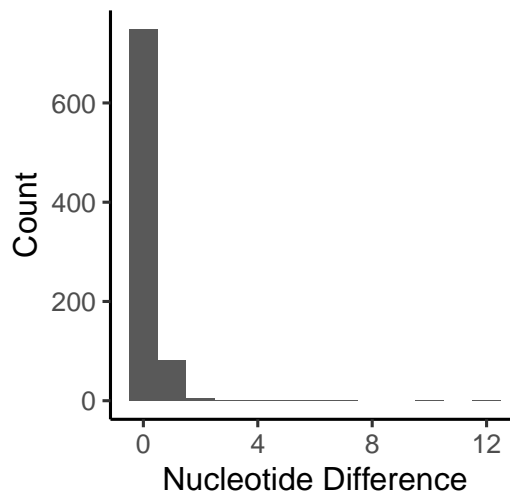
IGHV1-68*02

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



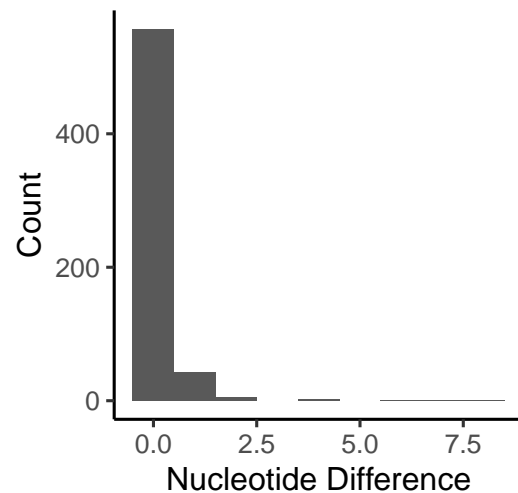
IGHV1-69*02

847 sequences assigned
749 (88.4%) exact matches, in which:
693 unique CDR3
6 unique J



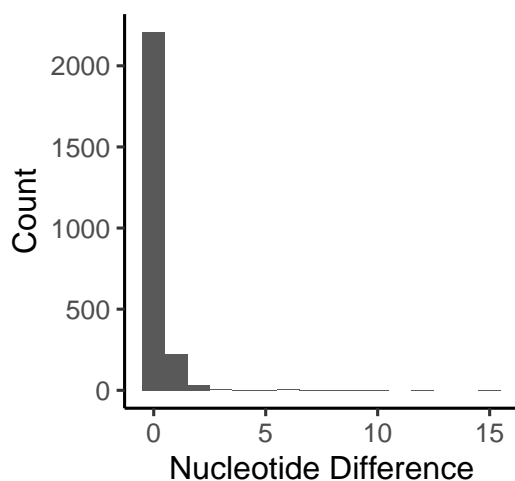
IGHV2-26*01

610 sequences assigned
557 (91.3%) exact matches, in which:
531 unique CDR3
6 unique J



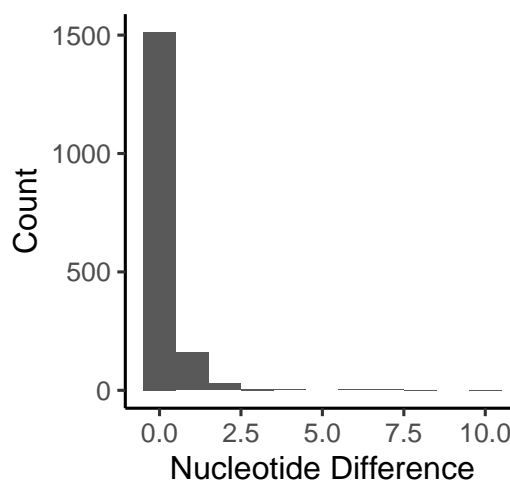
IGHV1-69*01

2486 sequences assigned
2208 (88.8%) exact matches, in which:
2061 unique CDR3
6 unique J



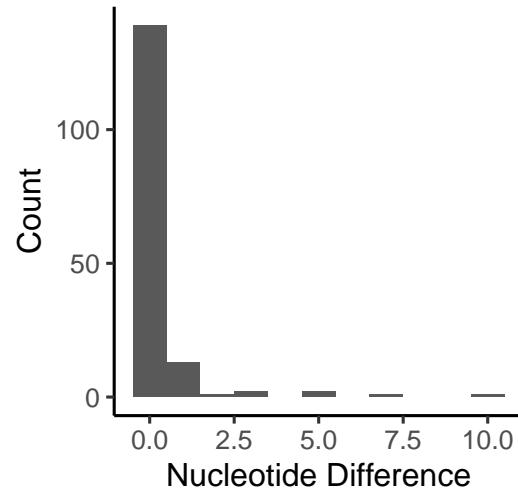
IGHV1-69*06

1720 sequences assigned
1513 (88%) exact matches, in which:
1389 unique CDR3
6 unique J



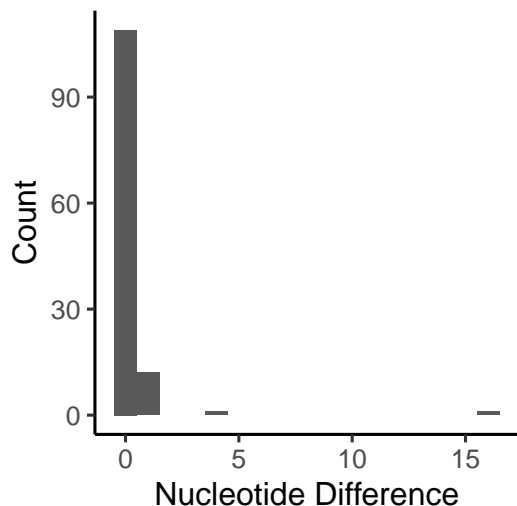
IGHV2-70*01

159 sequences assigned
139 (87.4%) exact matches, in which:
134 unique CDR3
5 unique J



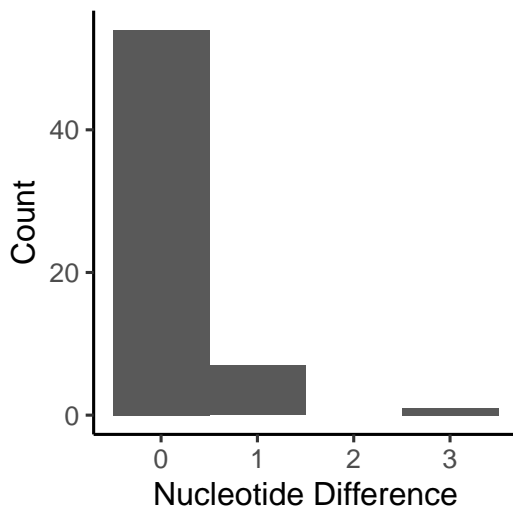
IGHV2-70*04

123 sequences assigned
109 (88.6%) exact matches, in which:
105 unique CDR3
5 unique J



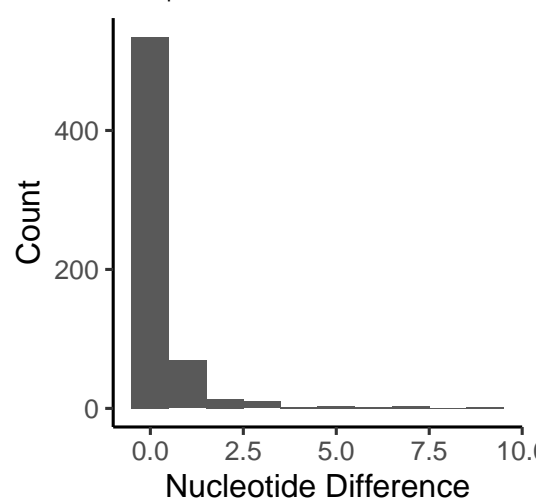
IGHV3-13*05

62 sequences assigned
54 (87.1%) exact matches, in which:
49 unique CDR3
5 unique J



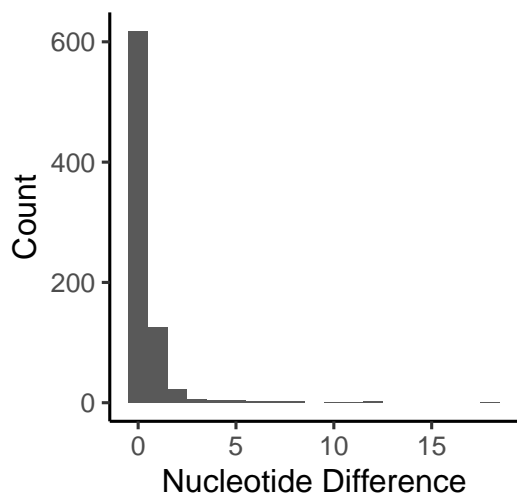
IGHV3-15*07

641 sequences assigned
535 (83.5%) exact matches, in which:
508 unique CDR3
6 unique J



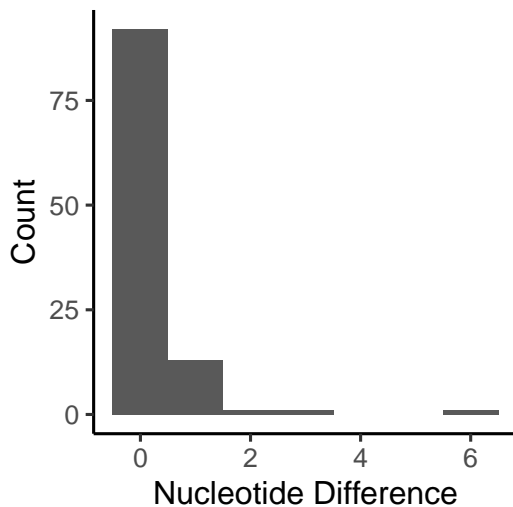
IGHV3-7*03

793 sequences assigned
618 (77.9%) exact matches, in which:
596 unique CDR3
6 unique J



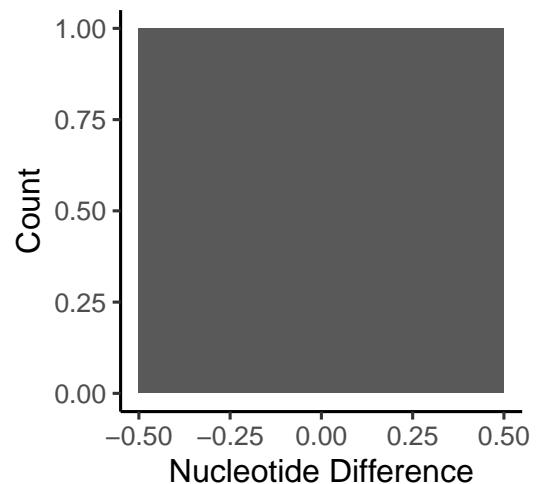
IGHV3-13*01_G290A_T301A

108 sequences assigned
92 (85.2%) exact matches, in which:
87 unique CDR3
5 unique J



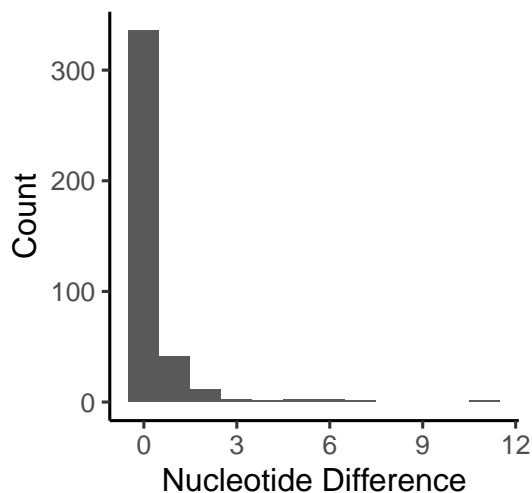
IGHV3-19*01

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



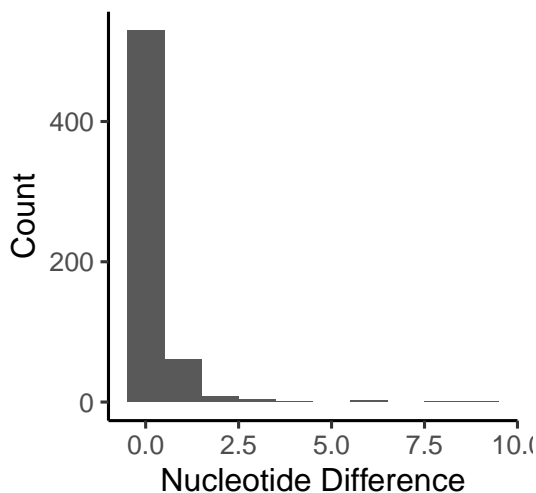
IGHV3-11*06

397 sequences assigned
336 (84.6%) exact matches, in which:
325 unique CDR3
6 unique J



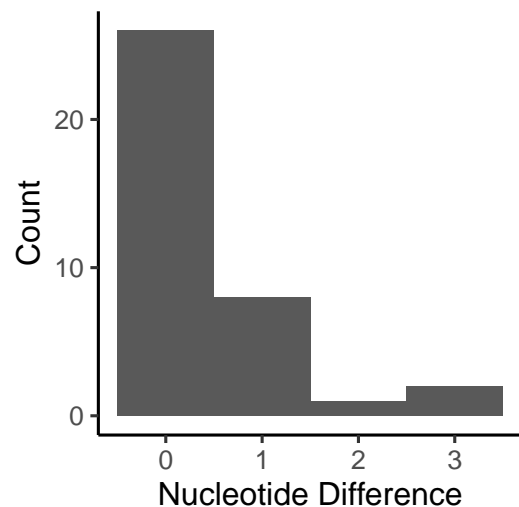
IGHV3-15*01

606 sequences assigned
530 (87.5%) exact matches, in which:
502 unique CDR3
6 unique J



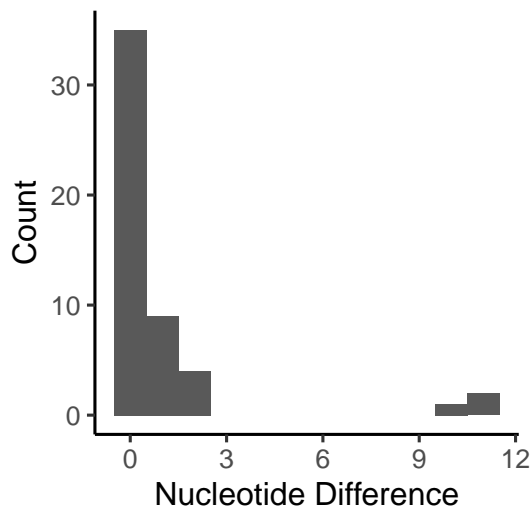
IGHV3-20*01

37 sequences assigned
26 (70.3%) exact matches, in which:
24 unique CDR3
5 unique J



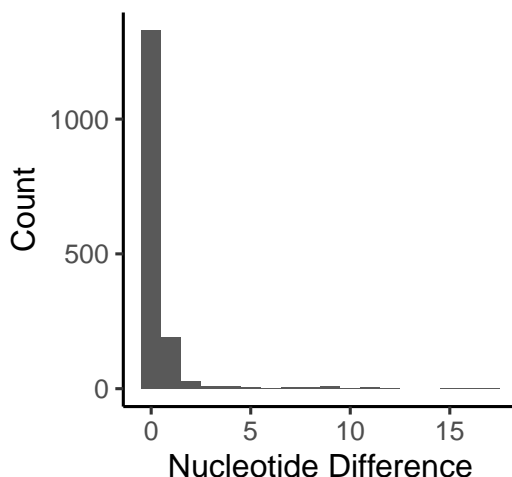
IGHV3-20*04

51 sequences assigned
35 (68.6%) exact matches, in which:
33 unique CDR3
4 unique J



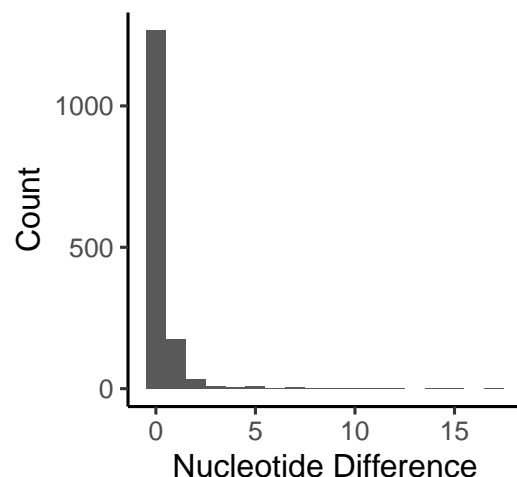
IGHV3-23*04

1614 sequences assigned
1329 (82.3%) exact matches, in which:
1249 unique CDR3
6 unique J



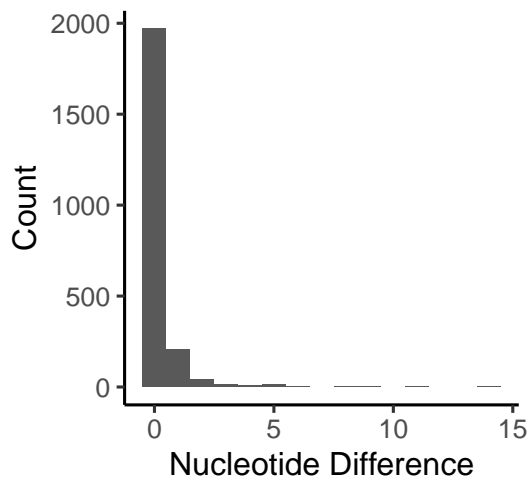
IGHV3-33*01

1522 sequences assigned
1267 (83.2%) exact matches, in which:
1208 unique CDR3
6 unique J



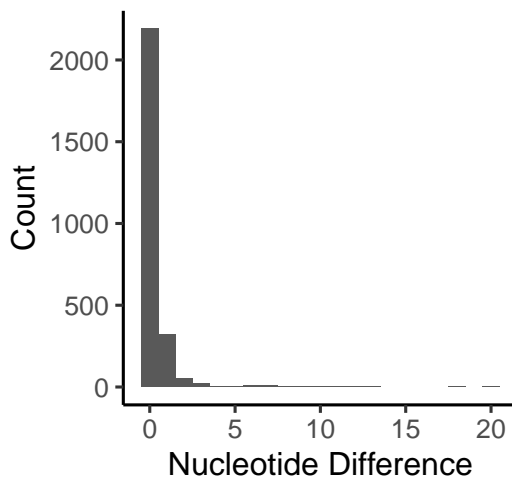
IGHV3-21*01

2261 sequences assigned
1970 (87.1%) exact matches, in which:
1848 unique CDR3
6 unique J



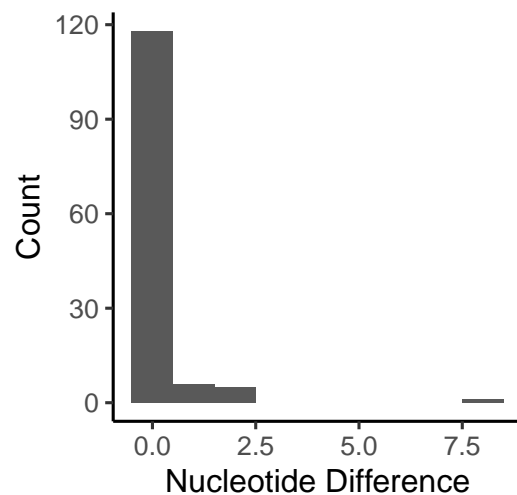
IGHV3-30-3*01

2637 sequences assigned
2191 (83.1%) exact matches, in which:
2079 unique CDR3
6 unique J



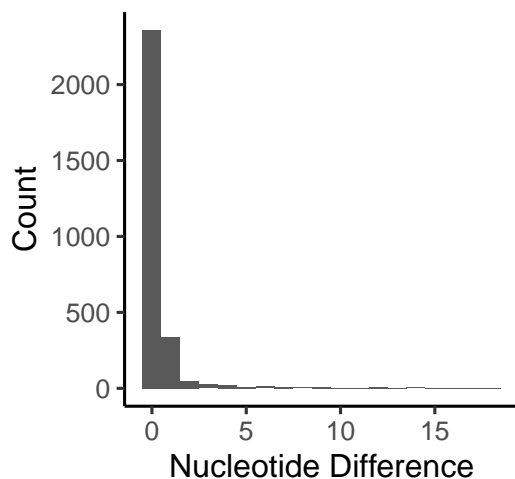
IGHV3-43*01

130 sequences assigned
118 (90.8%) exact matches, in which:
114 unique CDR3
6 unique J



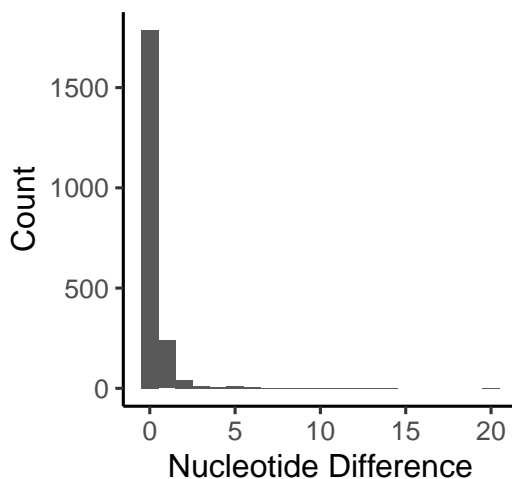
IGHV3-23*01

2870 sequences assigned
2359 (82.2%) exact matches, in which:
2227 unique CDR3
6 unique J



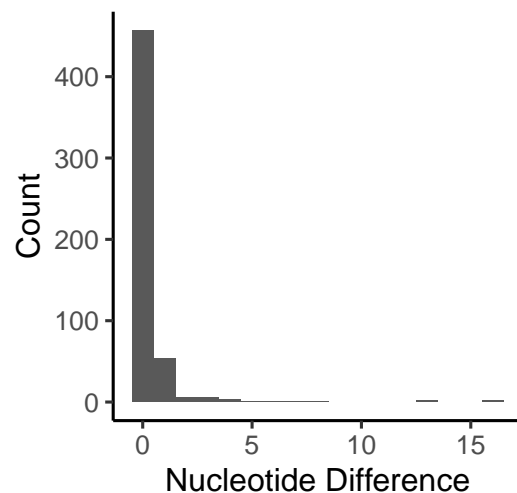
IGHV3-30*18

2116 sequences assigned
1787 (84.5%) exact matches, in which:
1705 unique CDR3
6 unique J



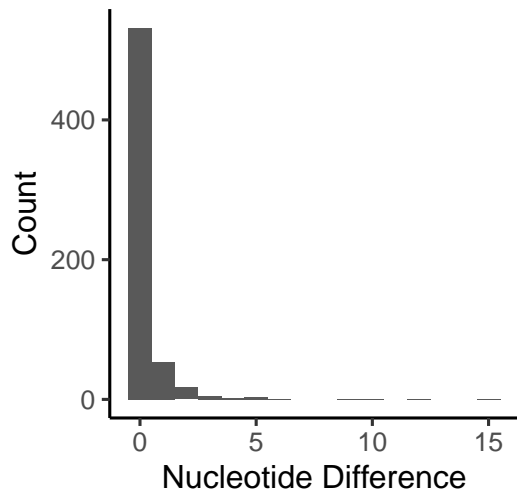
IGHV3-48*01

534 sequences assigned
457 (85.6%) exact matches, in which:
429 unique CDR3
6 unique J



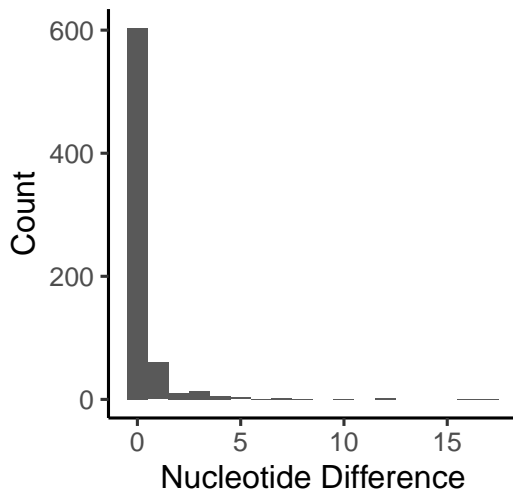
IGHV3-48*02

618 sequences assigned
532 (86.1%) exact matches, in which:
512 unique CDR3
6 unique J



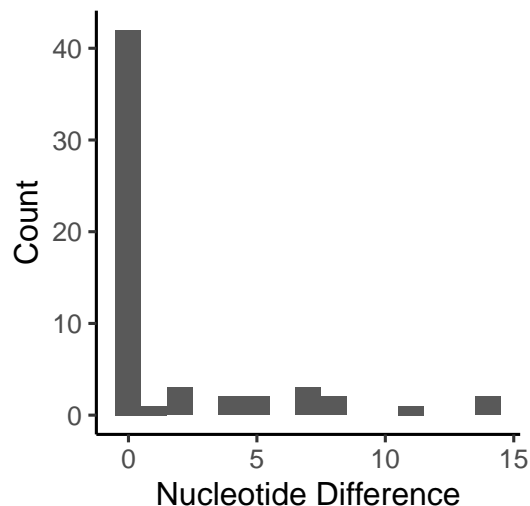
IGHV3-53*01

706 sequences assigned
604 (85.6%) exact matches, in which:
575 unique CDR3
6 unique J



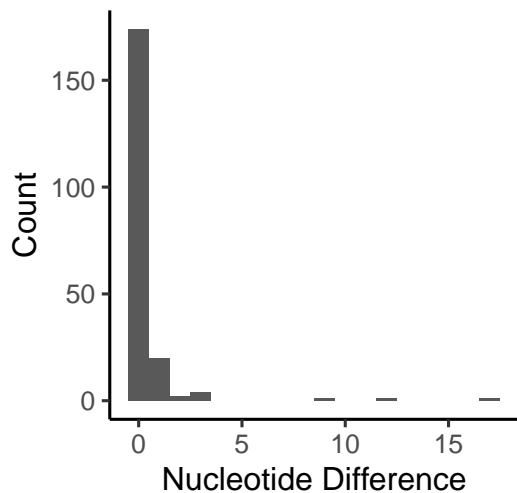
IGHV3-72*01

58 sequences assigned
42 (72.4%) exact matches, in which:
40 unique CDR3
4 unique J



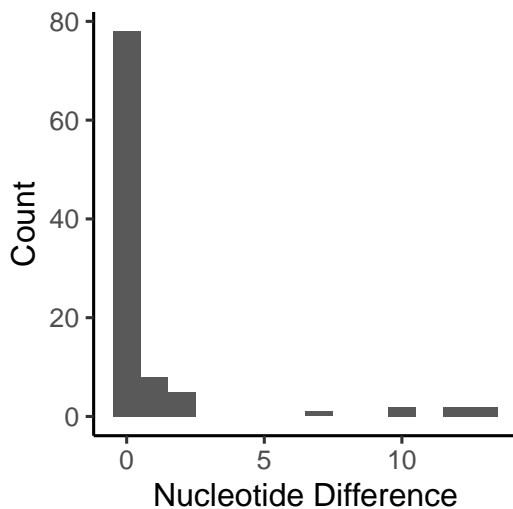
IGHV3-49*03

203 sequences assigned
174 (85.7%) exact matches, in which:
165 unique CDR3
5 unique J



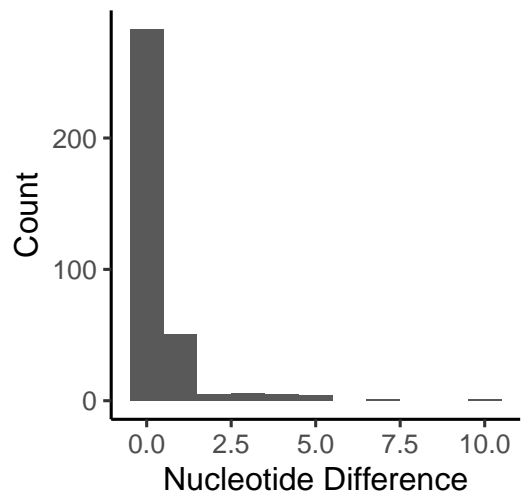
IGHV3-64*01

98 sequences assigned
78 (79.6%) exact matches, in which:
73 unique CDR3
5 unique J



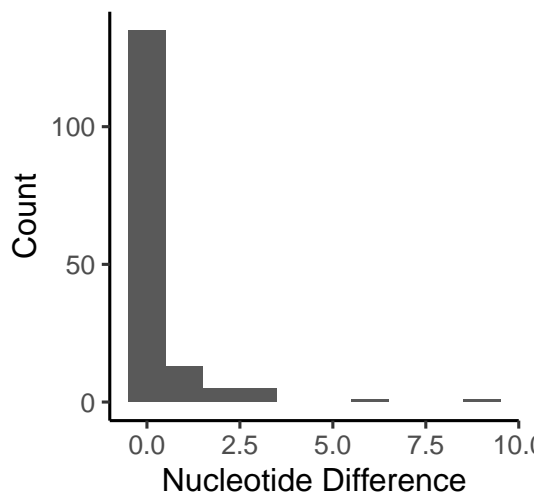
IGHV3-73*02

356 sequences assigned
283 (79.5%) exact matches, in which:
266 unique CDR3
6 unique J



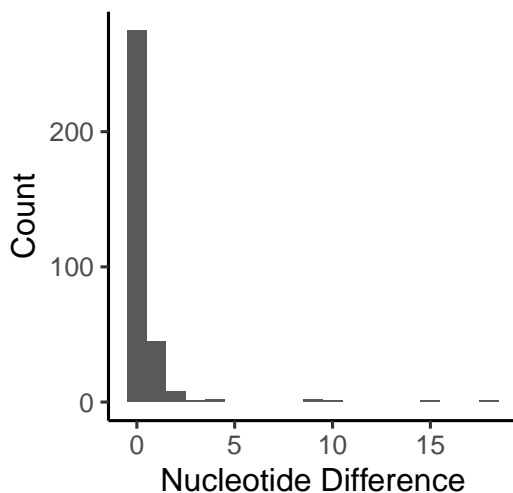
IGHV3-49*05

161 sequences assigned
135 (83.9%) exact matches, in which:
126 unique CDR3
5 unique J



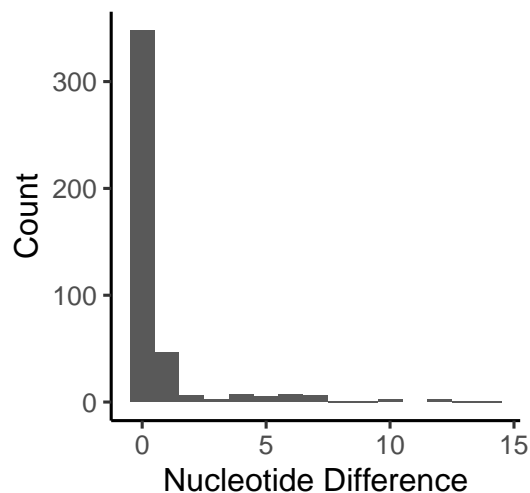
IGHV3-66*02

336 sequences assigned
275 (81.8%) exact matches, in which:
260 unique CDR3
6 unique J



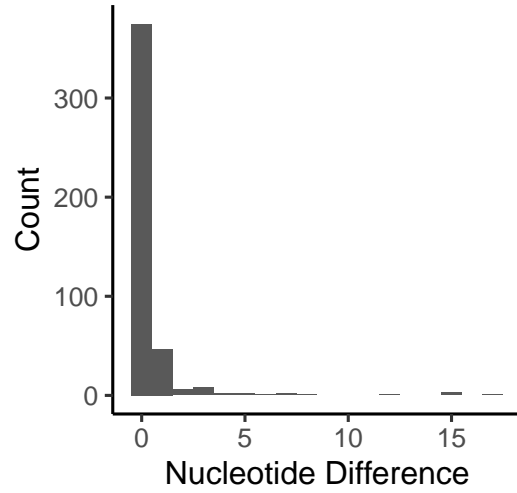
IGHV3-74*01

436 sequences assigned
348 (79.8%) exact matches, in which:
334 unique CDR3
5 unique J



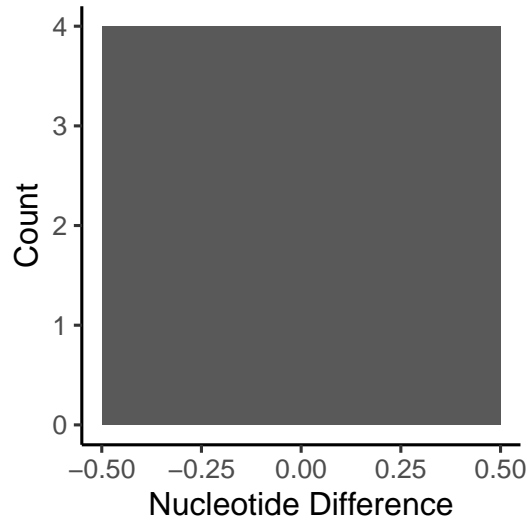
IGHV3–64D*06

449 sequences assigned
375 (83.5%) exact matches, in which:
351 unique CDR3
6 unique J



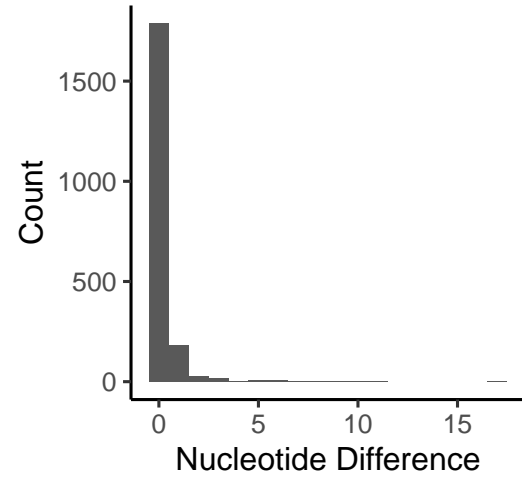
IGHV4–28*02

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J



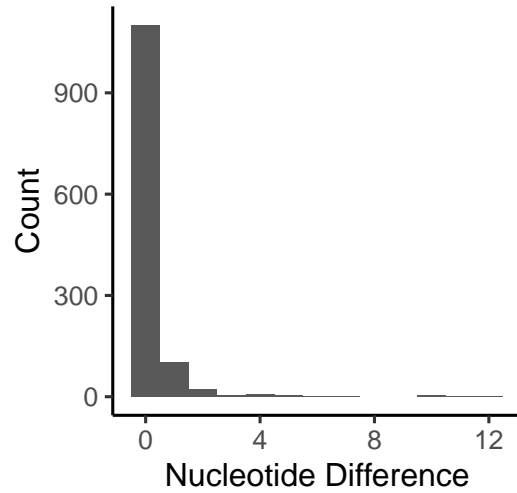
IGHV4–31*03

2040 sequences assigned
1788 (87.6%) exact matches, in which:
1701 unique CDR3
6 unique J



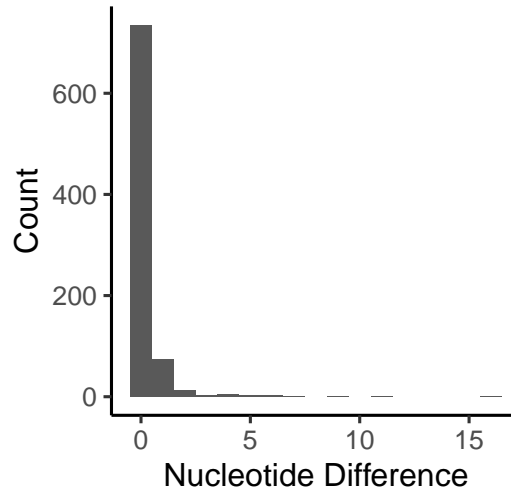
IGHV4–4*02

1248 sequences assigned
1101 (88.2%) exact matches, in which:
1054 unique CDR3
6 unique J



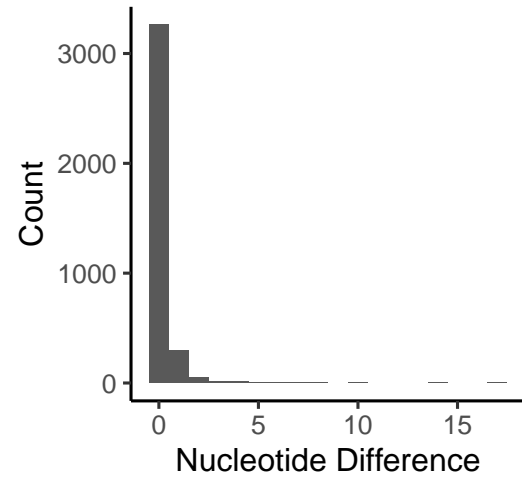
IGHV4–30–4*01

836 sequences assigned
735 (87.9%) exact matches, in which:
697 unique CDR3
6 unique J



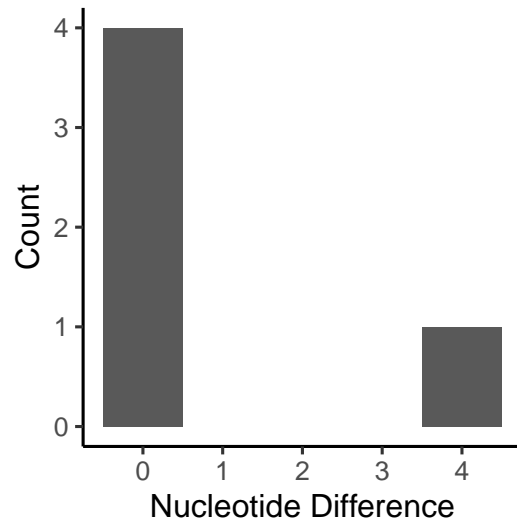
IGHV4–34*01

3669 sequences assigned
3262 (88.9%) exact matches, in which:
2981 unique CDR3
6 unique J



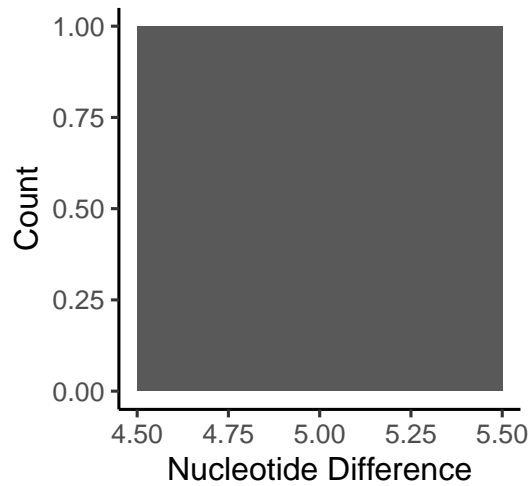
IGHV4–28*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



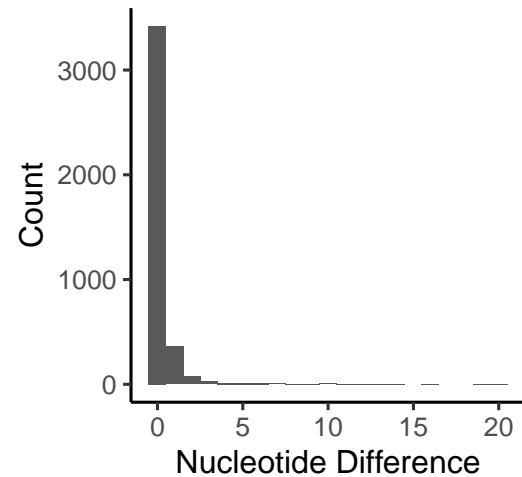
IGHV4–30–2*05

1 sequences assigned
No exact matches.



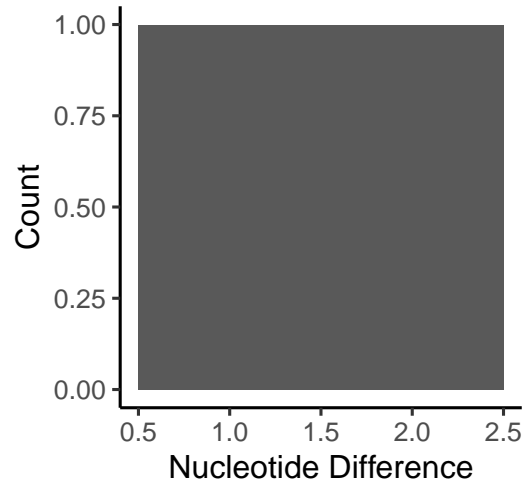
IGHV4–39*01

3977 sequences assigned
3420 (86%) exact matches, in which:
3124 unique CDR3
6 unique J



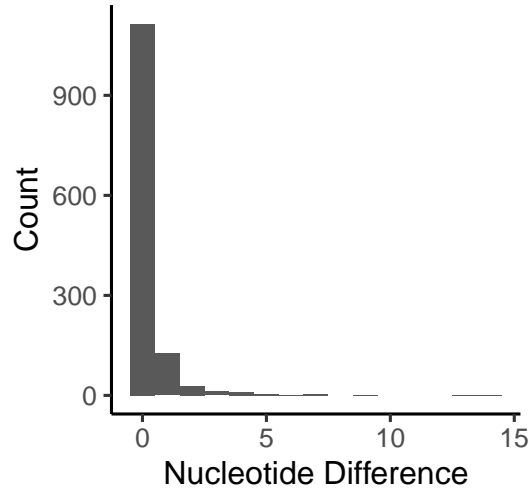
IGHV4-55*01

2 sequences assigned
No exact matches.



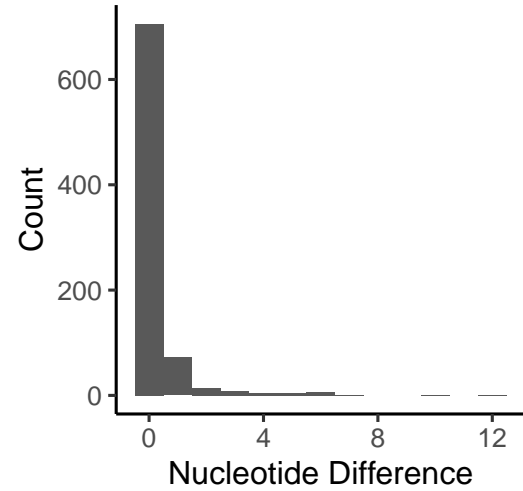
IGHV4-61*02

1304 sequences assigned
1115 (85.5%) exact matches, in which:
1064 unique CDR3
6 unique J



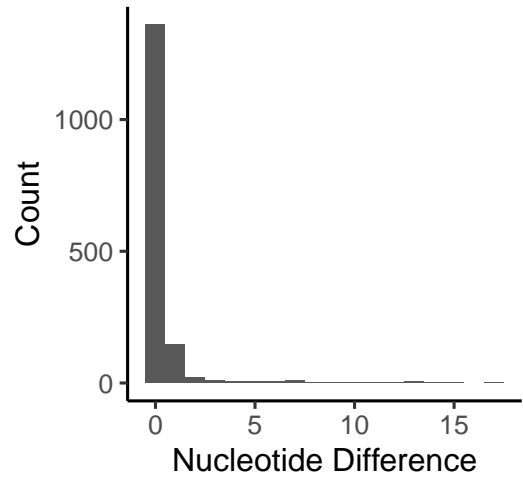
IGHV5-10-1*03

821 sequences assigned
706 (86%) exact matches, in which:
669 unique CDR3
6 unique J



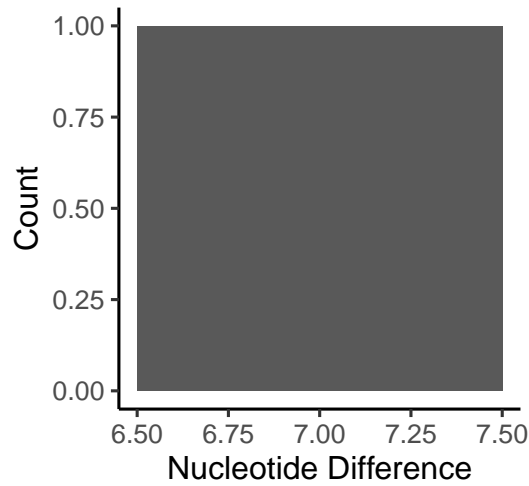
IGHV4-59*01

1578 sequences assigned
1360 (86.2%) exact matches, in which:
1300 unique CDR3
6 unique J



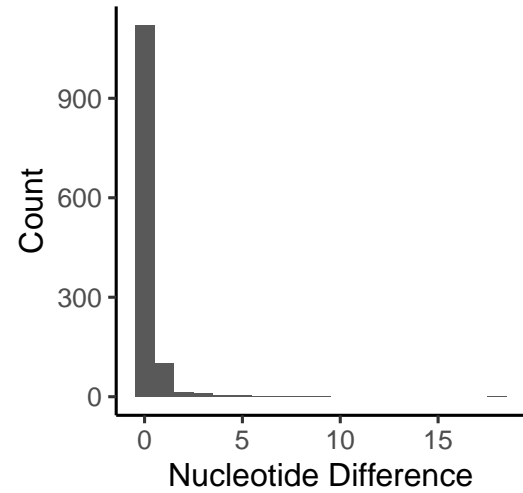
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



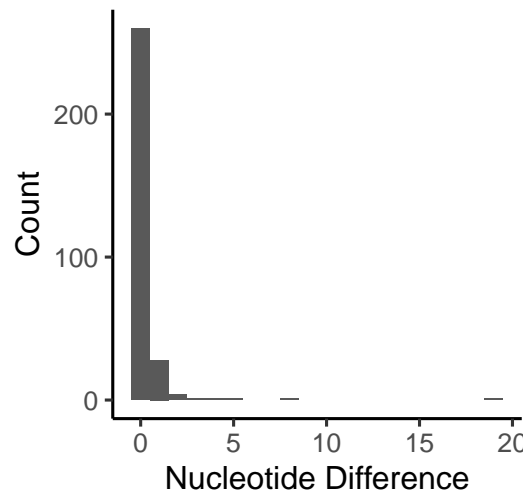
IGHV5-51*01

1273 sequences assigned
1121 (88.1%) exact matches, in which:
1068 unique CDR3
6 unique J



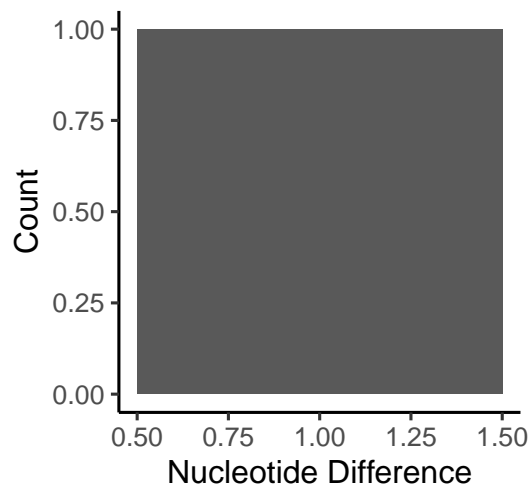
IGHV4-61*01

298 sequences assigned
260 (87.2%) exact matches, in which:
247 unique CDR3
6 unique J



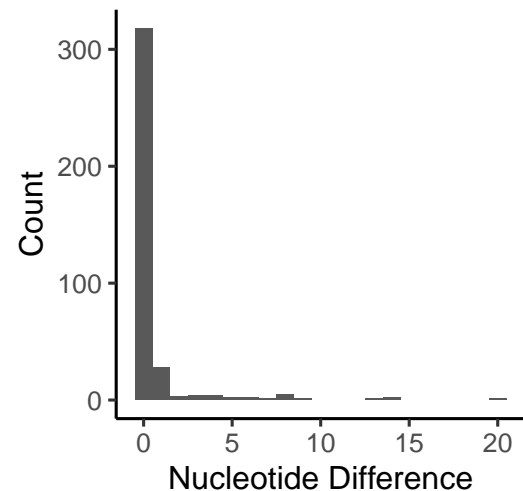
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



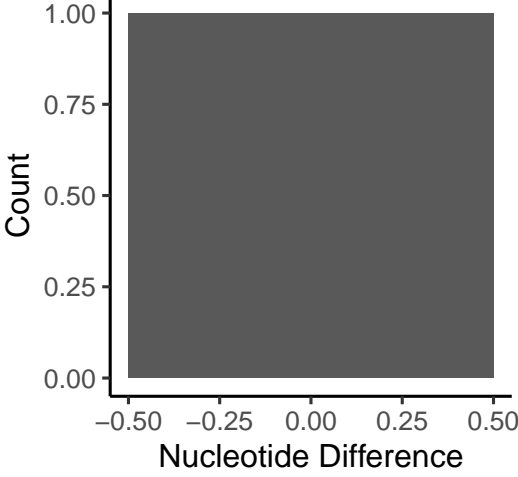
IGHV6-1*01

372 sequences assigned
318 (85.5%) exact matches, in which:
294 unique CDR3
6 unique J



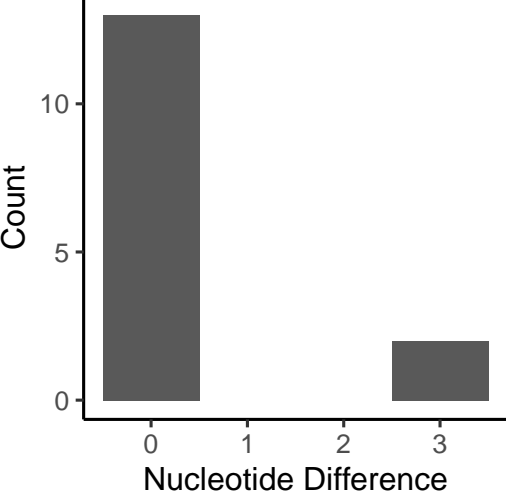
IGHV3/OR16-8*01

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



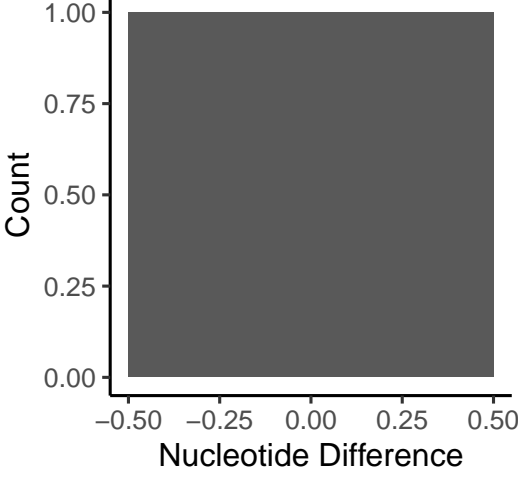
IGHV7-4-1*01

15 sequences assigned
13 (86.7%) exact matches, in which:
13 unique CDR3
4 unique J



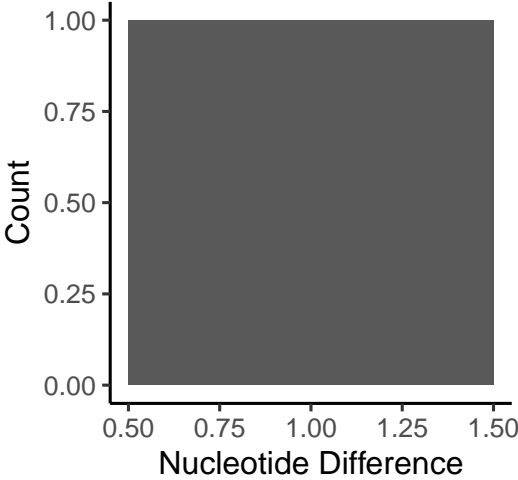
IGHV3/OR16-9*01

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



IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



IGHV3-13*01_G290A_T300C

