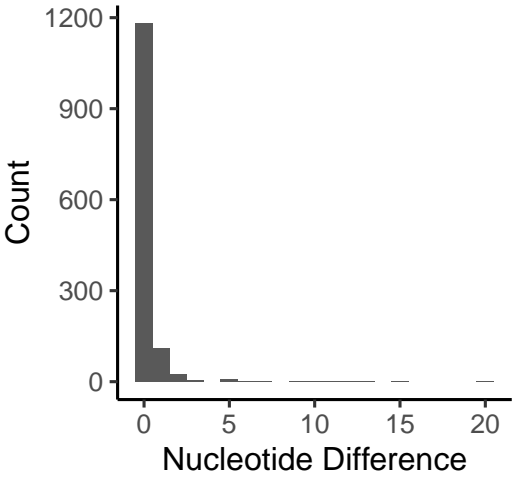


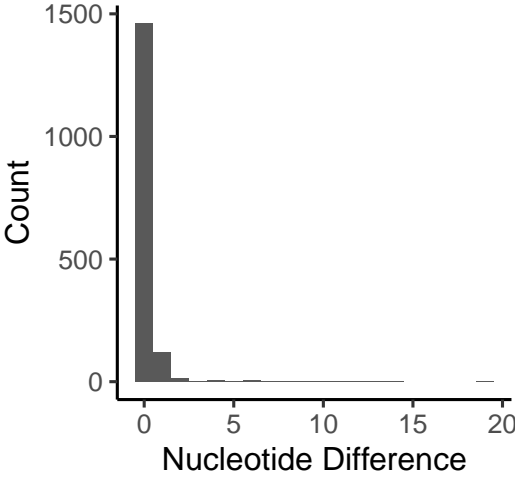
IGHV1-2*02

1346 sequences assigned
1181 (87.7%) exact matches, in which:
1102 unique CDR3
6 unique J



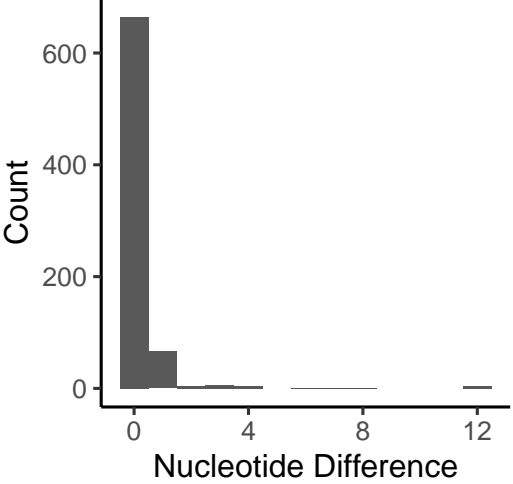
IGHV1-18*01

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



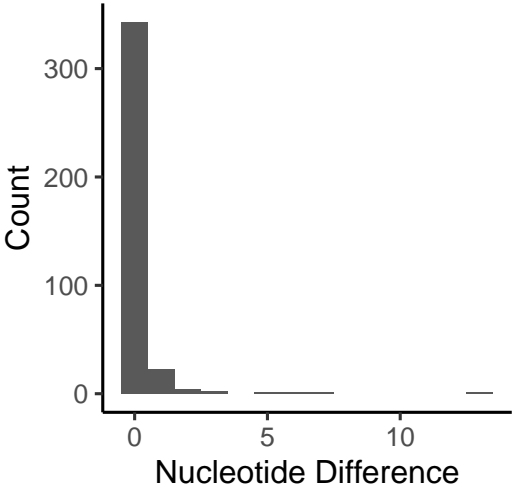
IGHV1-46*01

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



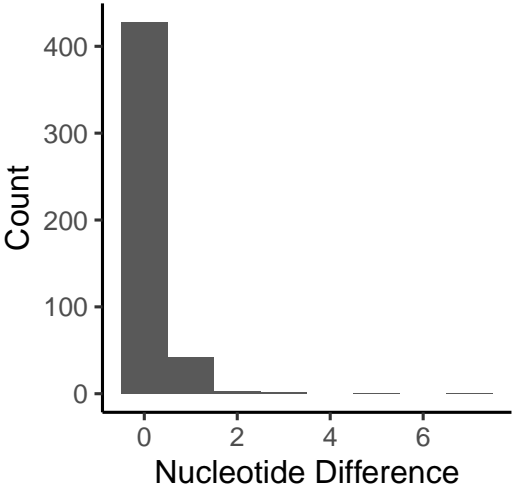
IGHV1-2*04

376 sequences assigned
343 (91.2%) exact matches, in which:
327 unique CDR3
5 unique J



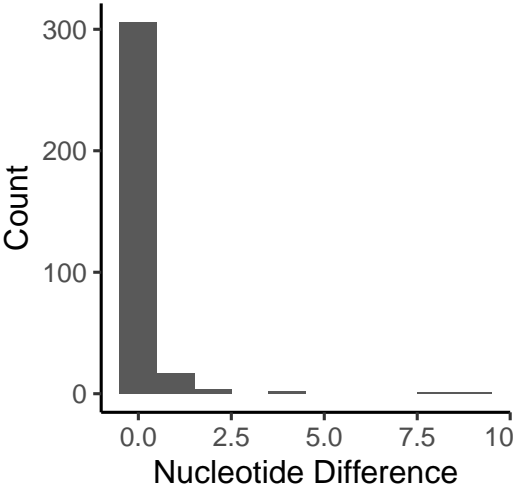
IGHV1-24*01

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



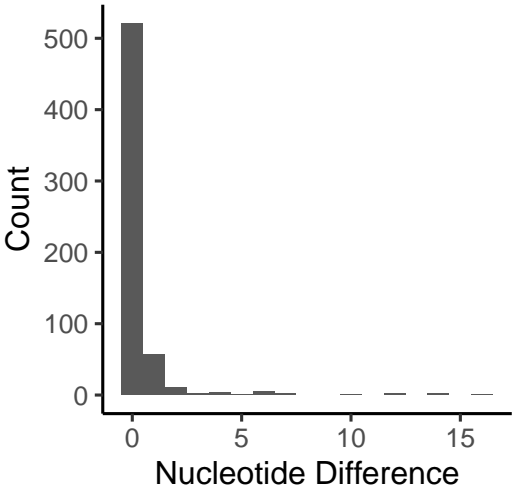
IGHV1-46*03

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



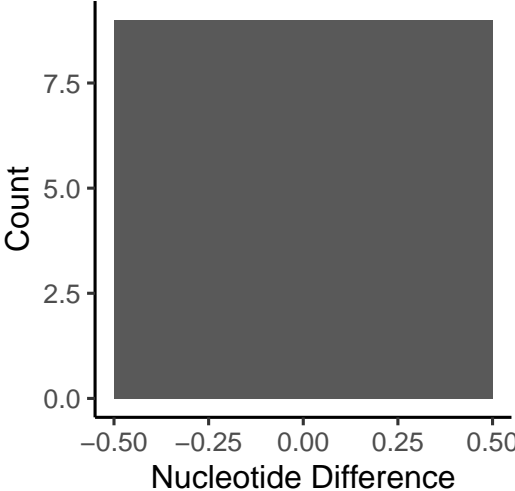
IGHV1-3*01

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



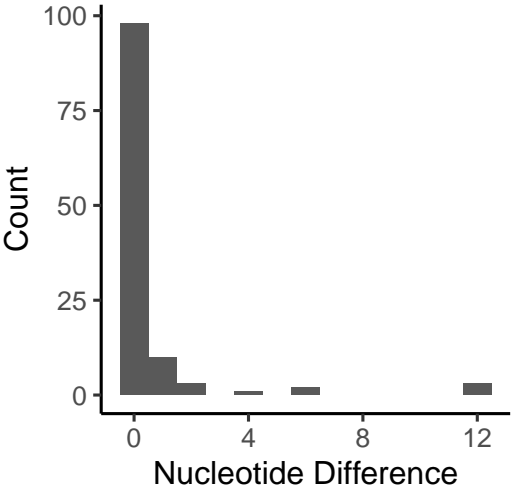
IGHV1-45*02

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



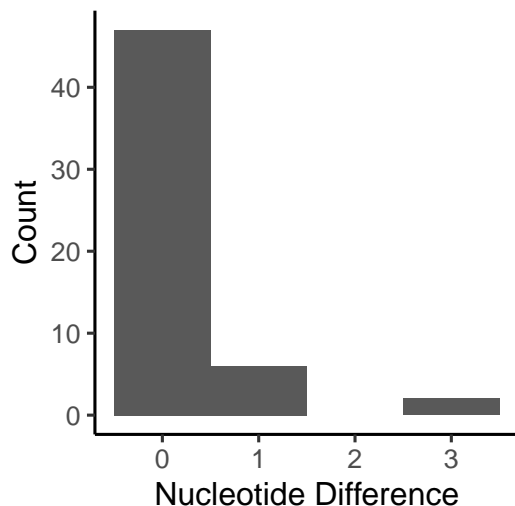
IGHV1-58*01

117 sequences assigned
98 (83.8%) exact matches, in which:
90 unique CDR3
6 unique J



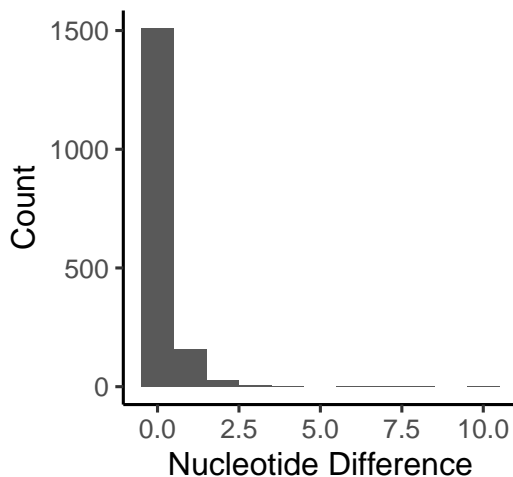
IGHV1-58*02

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



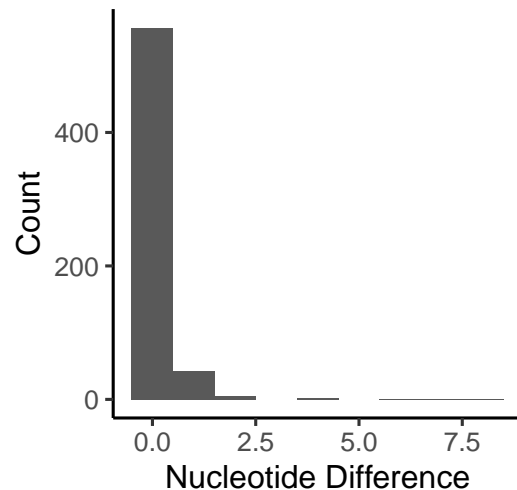
IGHV1-69*06

1713 sequences assigned
1509 (88.1%) exact matches, in which:
1385 unique CDR3
6 unique J



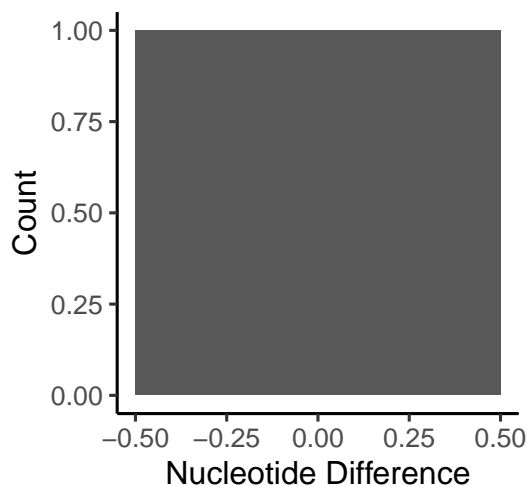
IGHV2-26*01

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



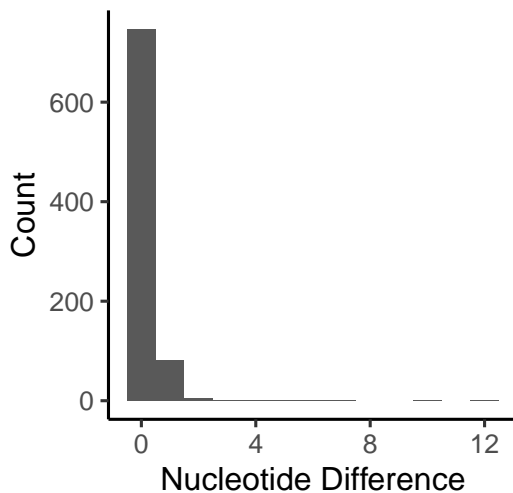
IGHV1-68*02

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



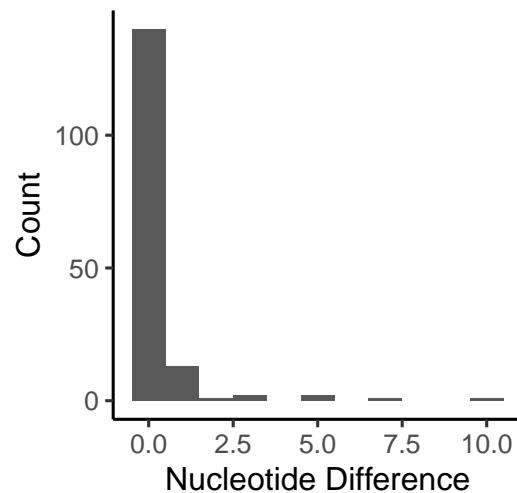
IGHV1-69*08_C191T

845 sequences assigned
747 (88.4%) exact matches, in which:
690 unique CDR3
6 unique J



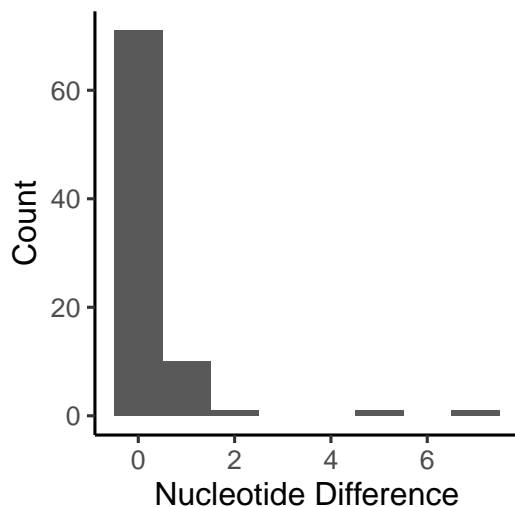
IGHV2-70*01

160 sequences assigned
140 (87.5%) exact matches, in which:
135 unique CDR3
5 unique J



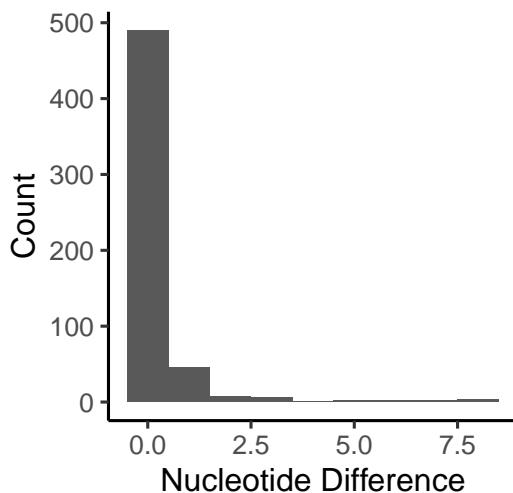
IGHV1-69-2*01

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



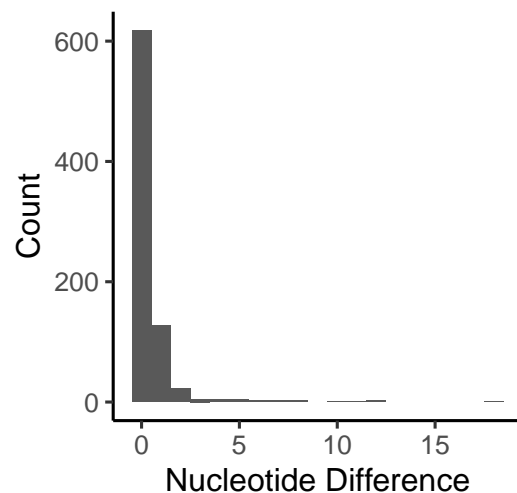
IGHV2-5*02

560 sequences assigned
490 (87.5%) exact matches, in which:
456 unique CDR3
6 unique J



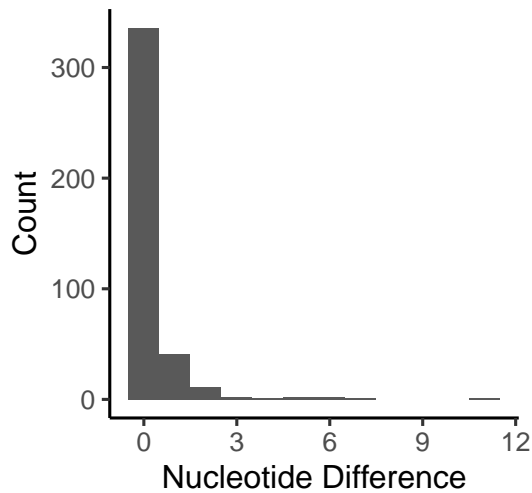
IGHV3-7*03

794 sequences assigned
618 (77.8%) exact matches, in which:
596 unique CDR3
6 unique J



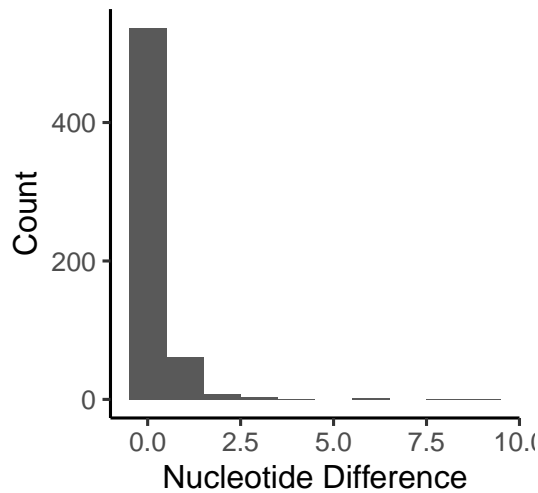
IGHV3-11*06

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



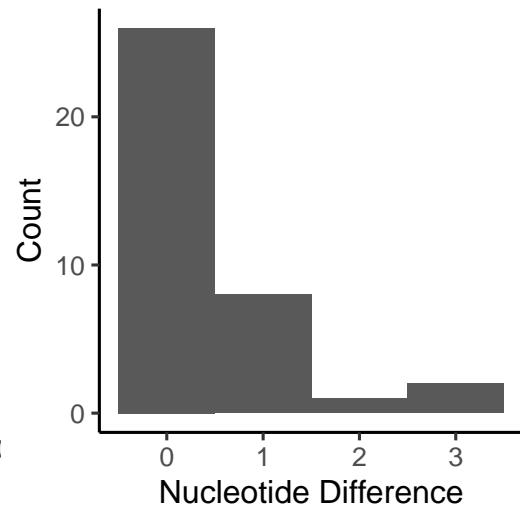
IGHV3-15*01

614 sequences assigned
537 (87.5%) exact matches, in which:
509 unique CDR3
6 unique J



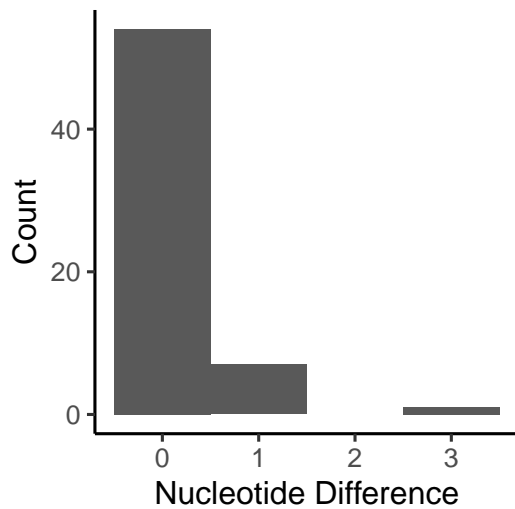
IGHV3-20*01

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



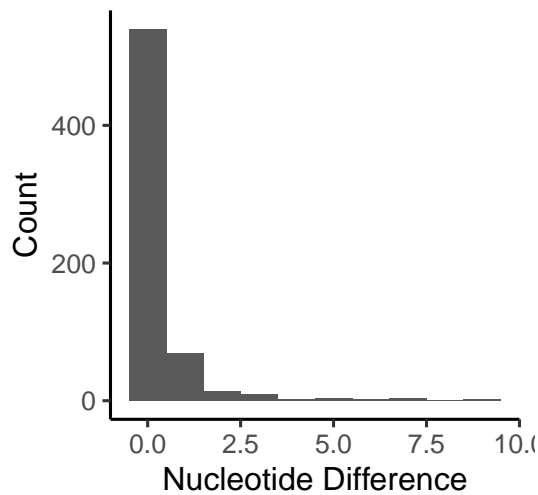
IGHV3-13*05

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



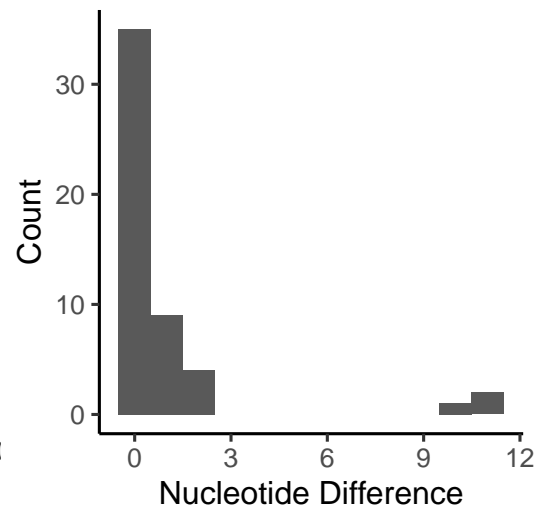
IGHV3-15*07

646 sequences assigned
540 (83.6%) exact matches, in which:
513 unique CDR3
6 unique J



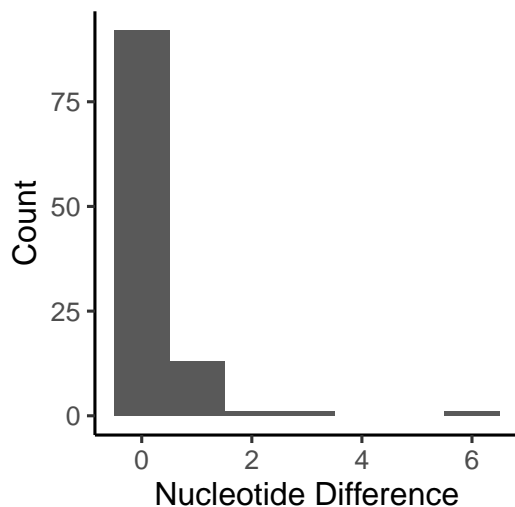
IGHV3-20*04

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



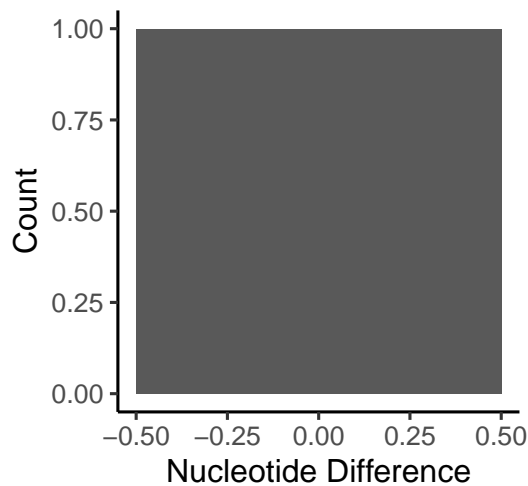
IGHV3-13*01_G290A_T3I

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



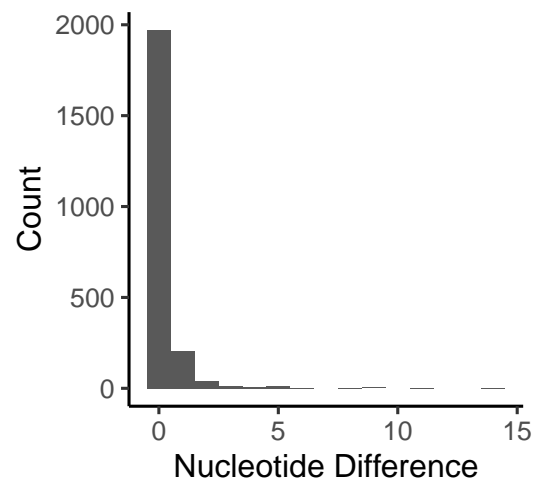
IGHV3-19*01

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



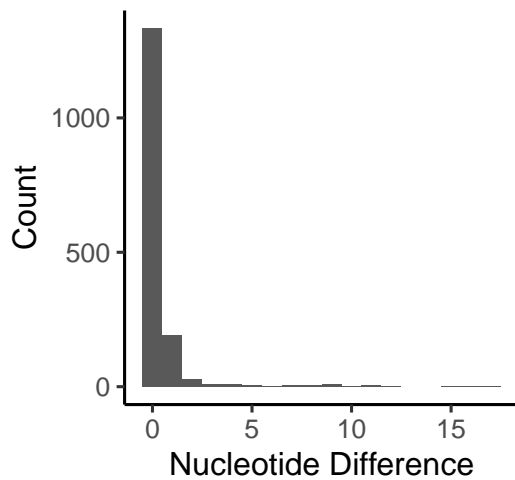
IGHV3-21*01

2262 sequences assigned
1971 (87.1%) exact matches, in which:
1849 unique CDR3
6 unique J



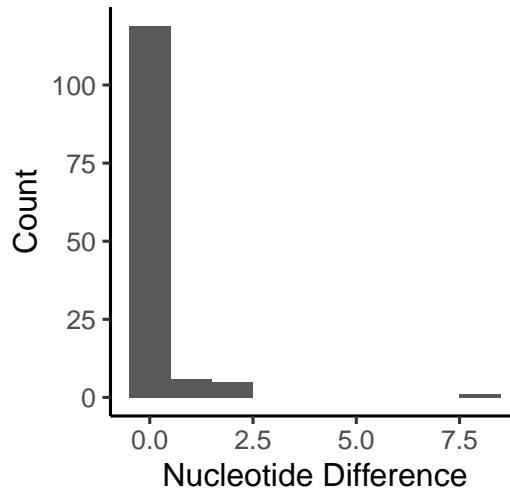
IGHV3-23*04

1618 sequences assigned
1333 (82.4%) exact matches, in which:
1253 unique CDR3
6 unique J



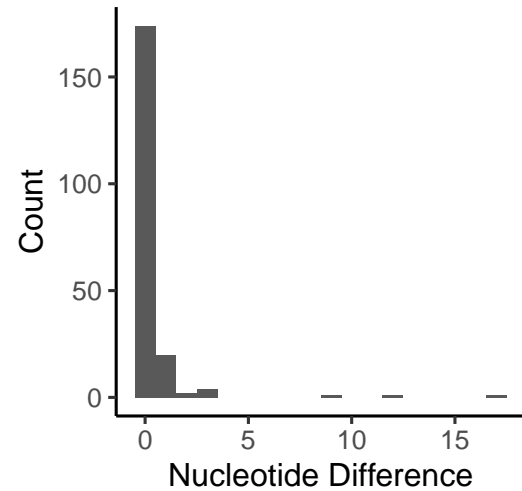
IGHV3-43*01

131 sequences assigned
119 (90.8%) exact matches, in which:
114 unique CDR3
6 unique J



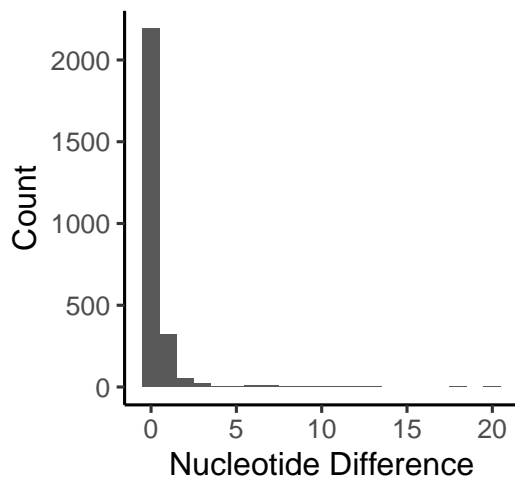
IGHV3-49*03

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



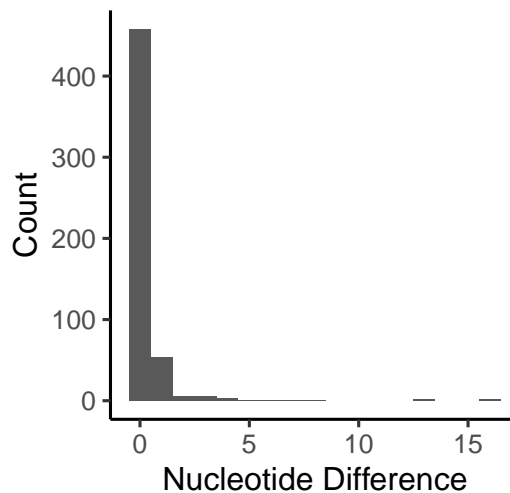
IGHV3-30-3*01

2638 sequences assigned
2191 (83.1%) exact matches, in which:
2079 unique CDR3
6 unique J



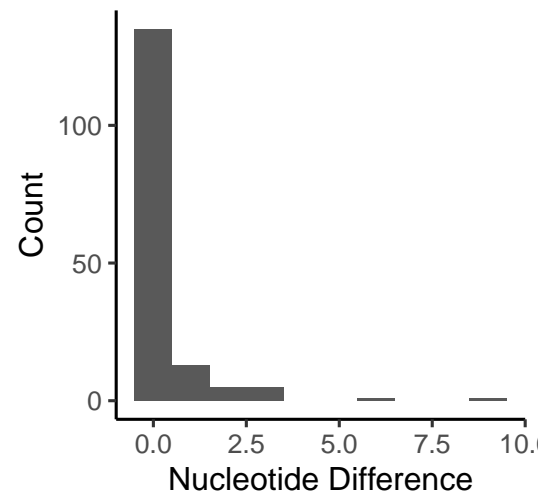
IGHV3-48*01

535 sequences assigned
458 (85.6%) exact matches, in which:
430 unique CDR3
6 unique J



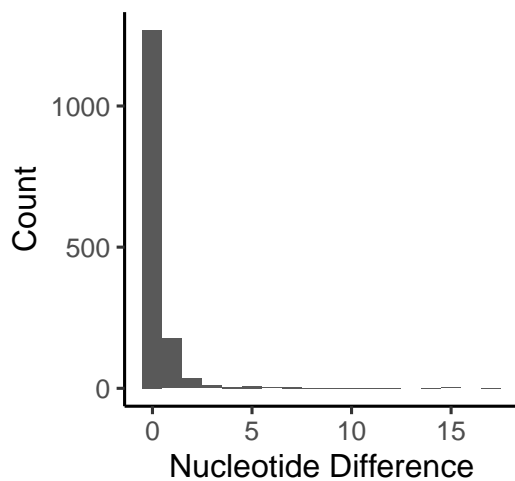
IGHV3-49*05

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



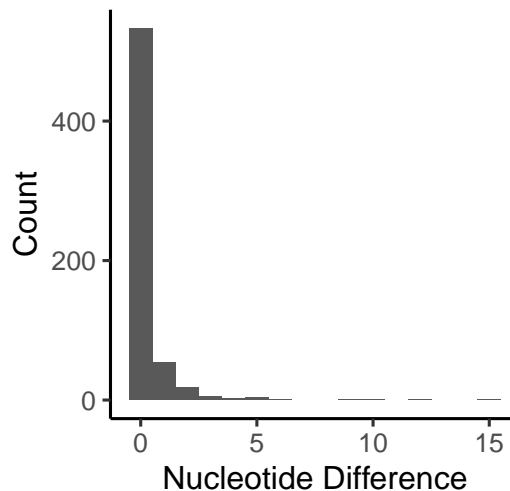
IGHV3-33*01

1525 sequences assigned
1269 (83.2%) exact matches, in which:
1210 unique CDR3
6 unique J



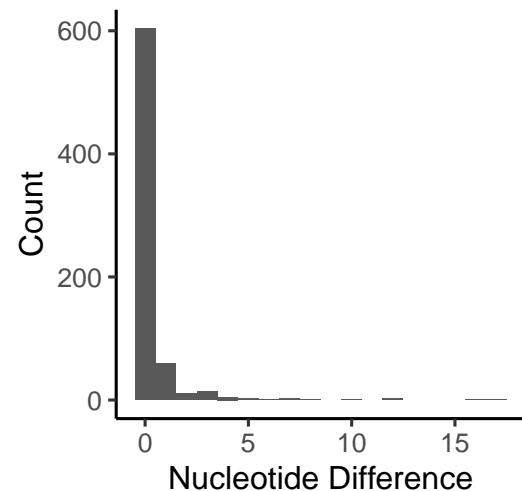
IGHV3-48*02

620 sequences assigned
533 (86%) exact matches, in which:
513 unique CDR3
6 unique J



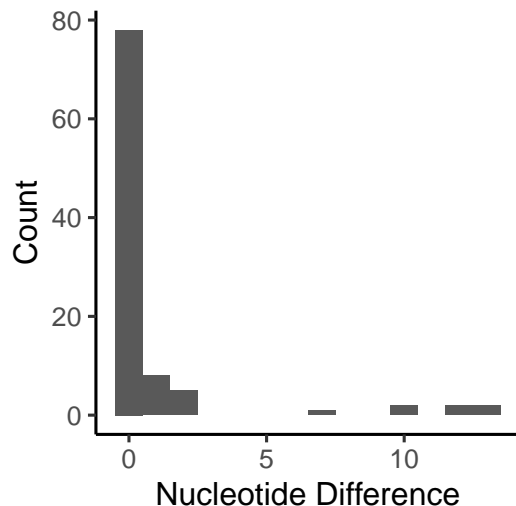
IGHV3-53*01

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



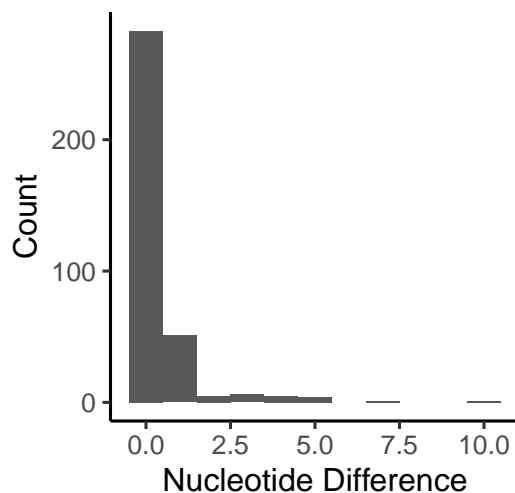
IGHV3-64*01

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



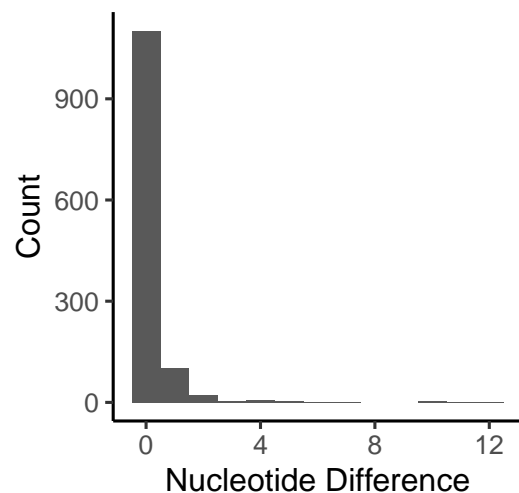
IGHV3-73*02

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



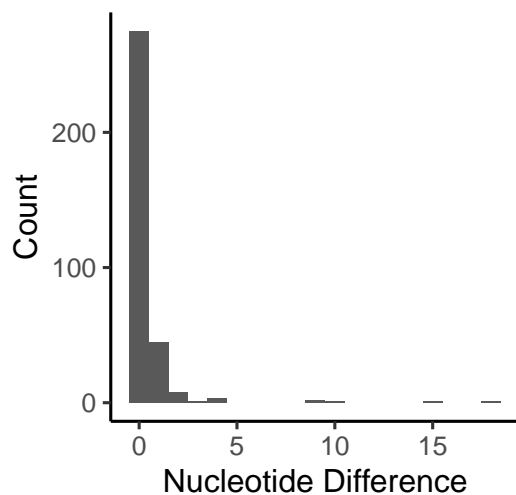
IGHV4-4*02

1249 sequences assigned
1102 (88.2%) exact matches, in which:
1054 unique CDR3
6 unique J



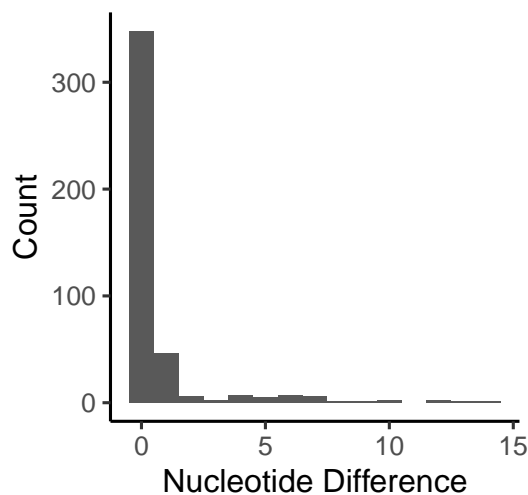
IGHV3-66*02

337 sequences assigned
275 (81.6%) exact matches, in which:
260 unique CDR3
6 unique J



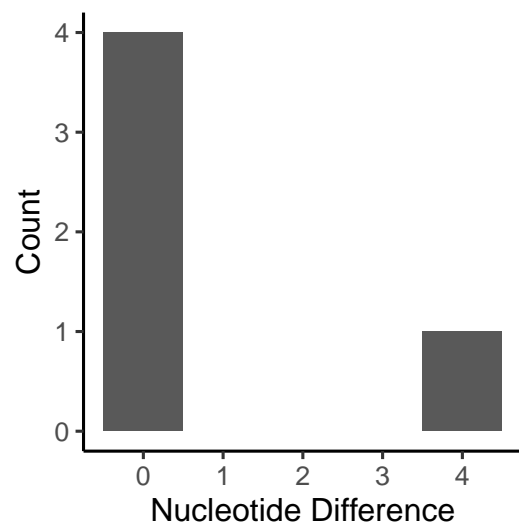
IGHV3-74*01

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



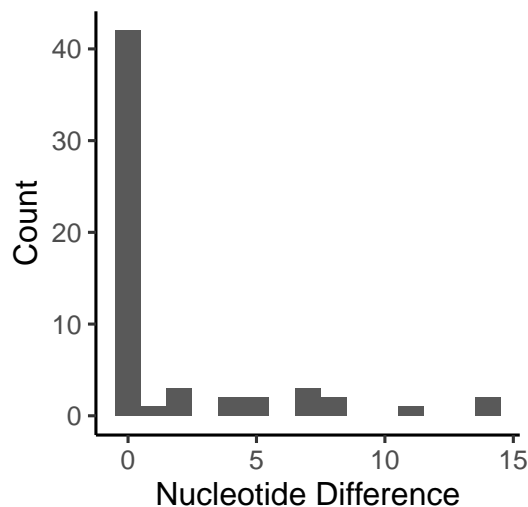
IGHV4-28*01

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



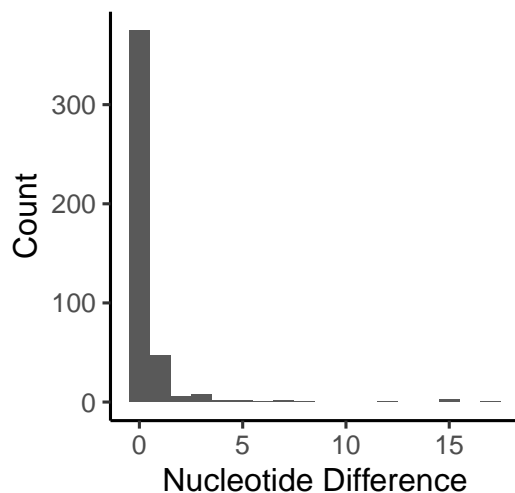
IGHV3-72*01

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



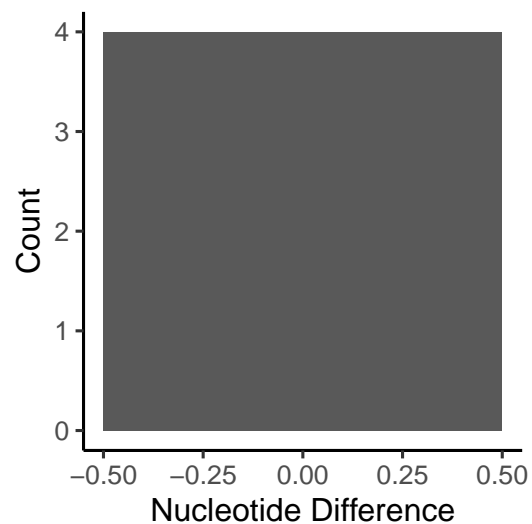
IGHV3-64D*06

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



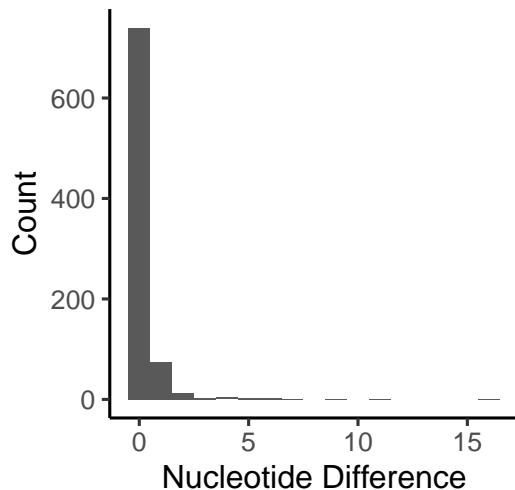
IGHV4-28*02

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



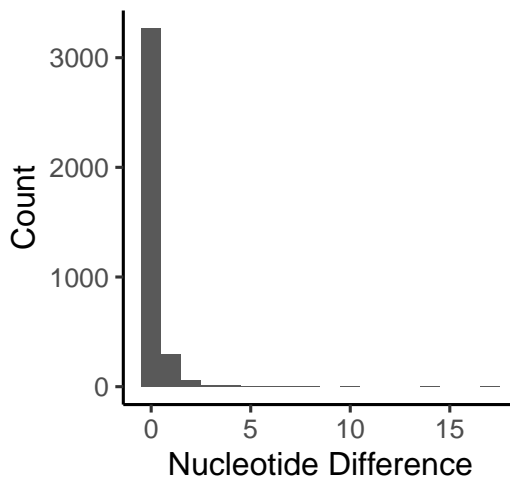
IGHV4-30-4*01

841 sequences assigned
740 (88%) exact matches, in which:
702 unique CDR3
6 unique J



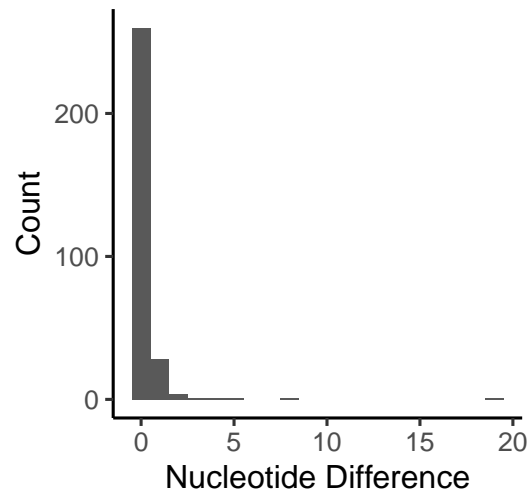
IGHV4-34*01

3681 sequences assigned
3267 (88.8%) exact matches, in which:
2984 unique CDR3
6 unique J



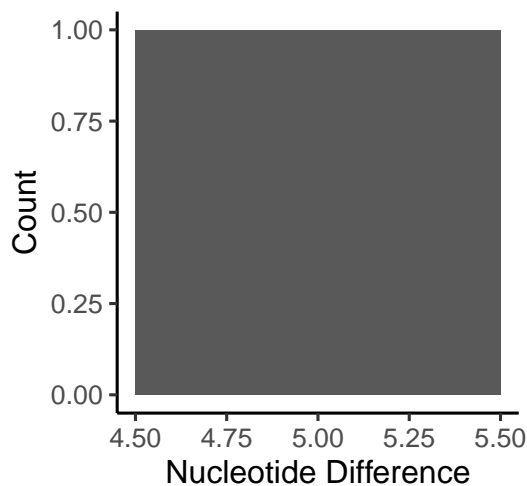
IGHV4-61*01

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



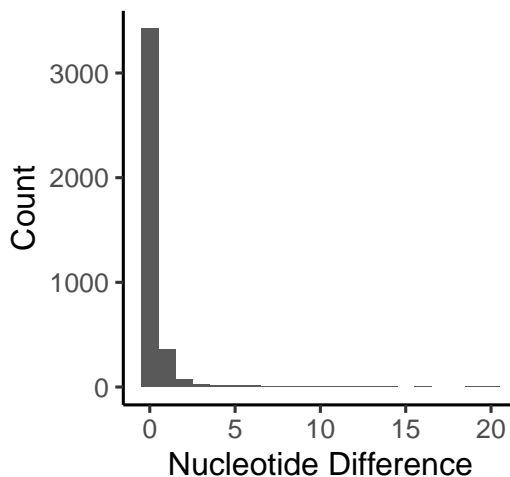
IGHV4-30-2*05

1 sequences assigned
No exact matches.



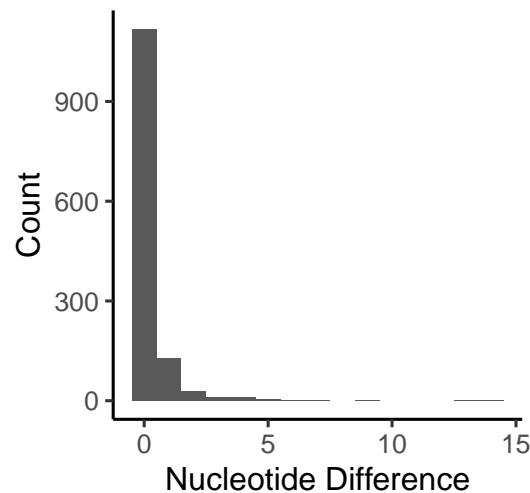
IGHV4-39*01

3980 sequences assigned
3423 (86%) exact matches, in which:
3127 unique CDR3
6 unique J



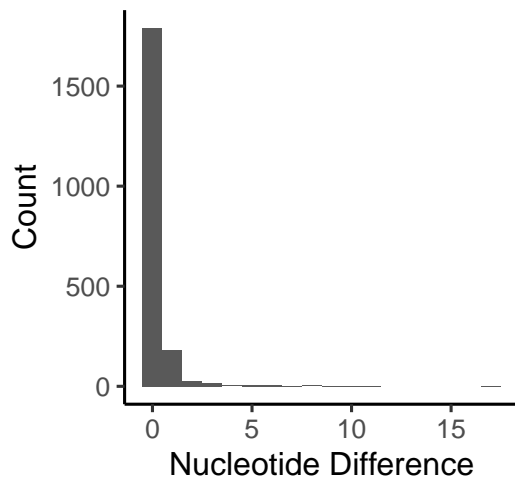
IGHV4-61*02

1310 sequences assigned
1118 (85.3%) exact matches, in which:
1067 unique CDR3
6 unique J



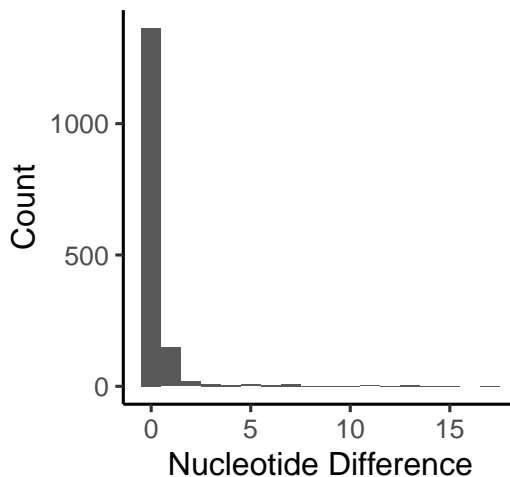
IGHV4-31*03

2043 sequences assigned
1790 (87.6%) exact matches, in which:
1702 unique CDR3
6 unique J



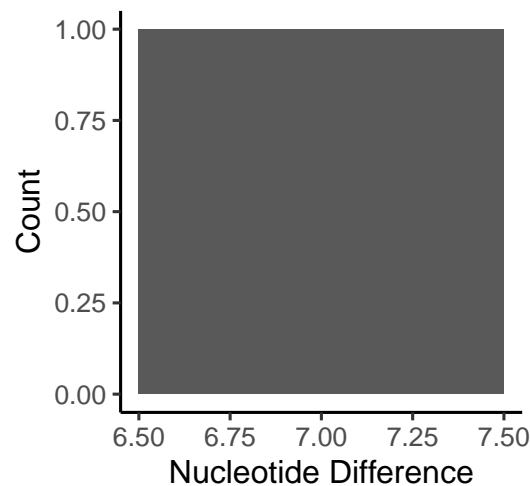
IGHV4-59*01

1584 sequences assigned
1364 (86.1%) exact matches, in which:
1304 unique CDR3
6 unique J



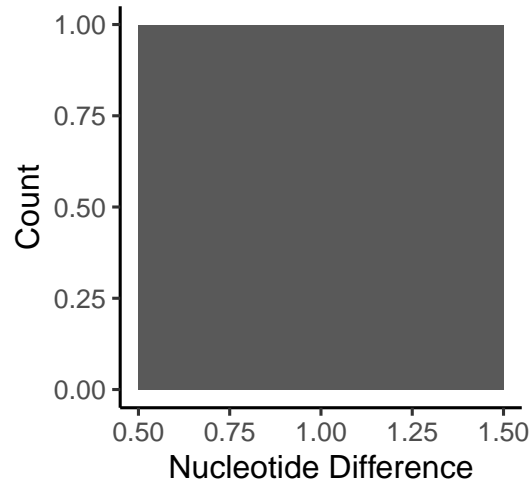
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



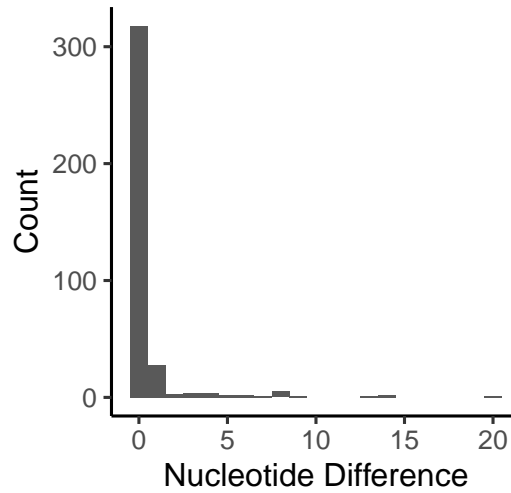
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



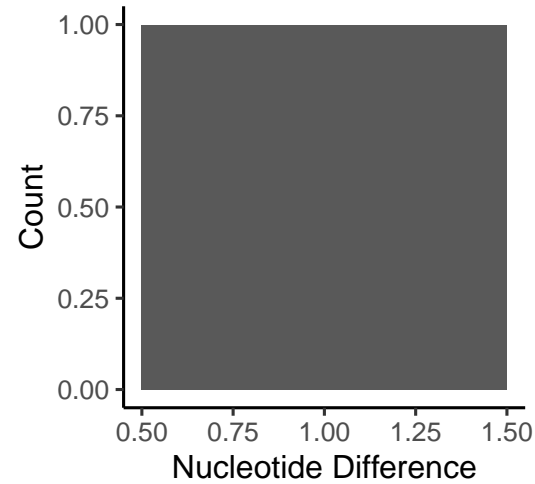
IGHV6-1*01

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



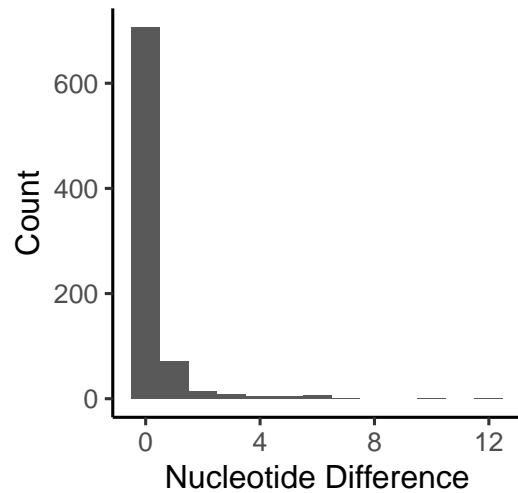
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



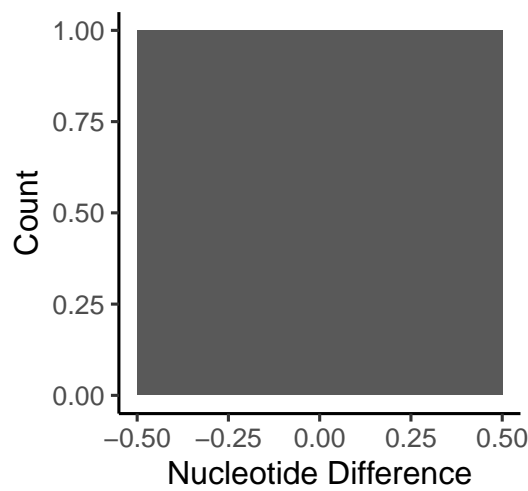
IGHV5-10-1*03

822 sequences assigned
707 (86%) exact matches, in which:
670 unique CDR3
6 unique J



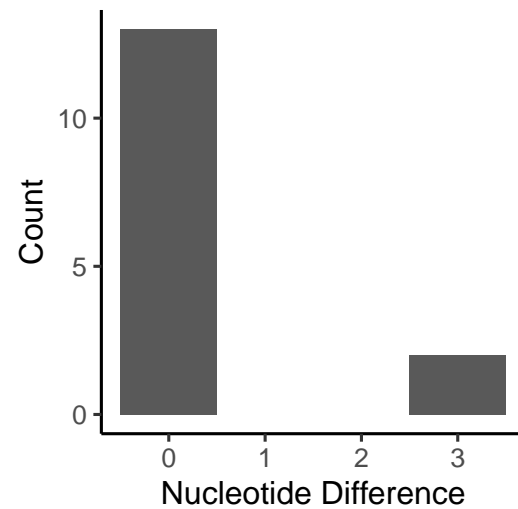
IGHV3/OR16-8*01

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



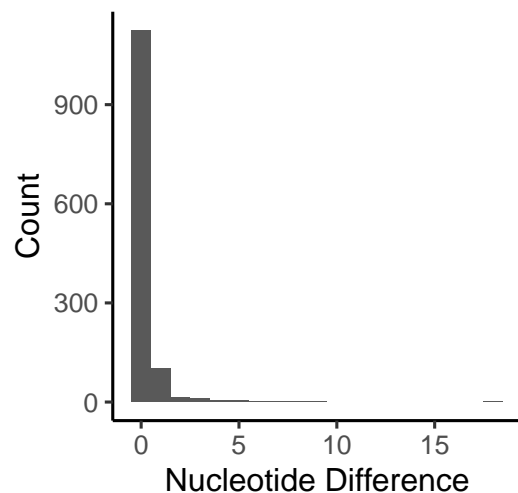
IGHV7-4-1*01

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



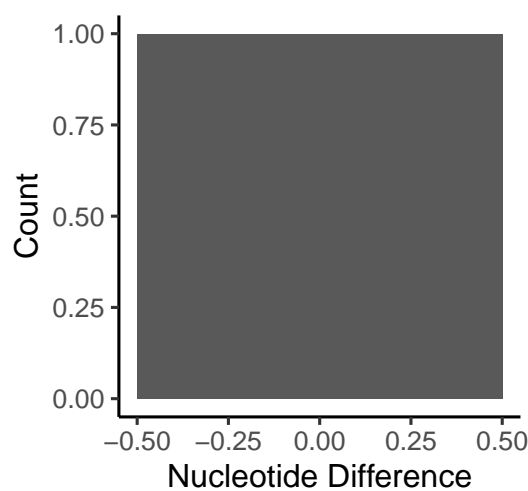
IGHV5-51*01

1277 sequences assigned
1125 (88.1%) exact matches, in which:
1071 unique CDR3
6 unique J



IGHV3/OR16-9*01

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





Warning – no inferred sequences found.