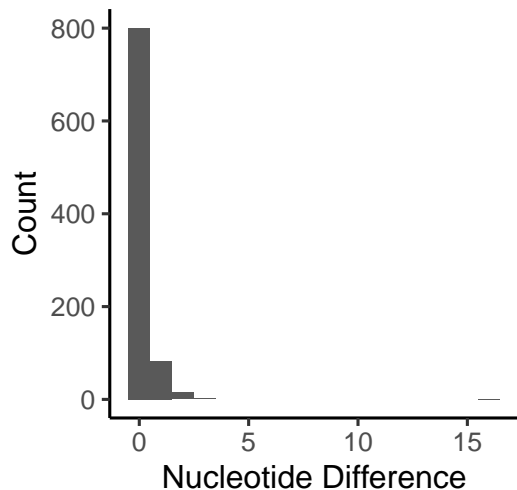


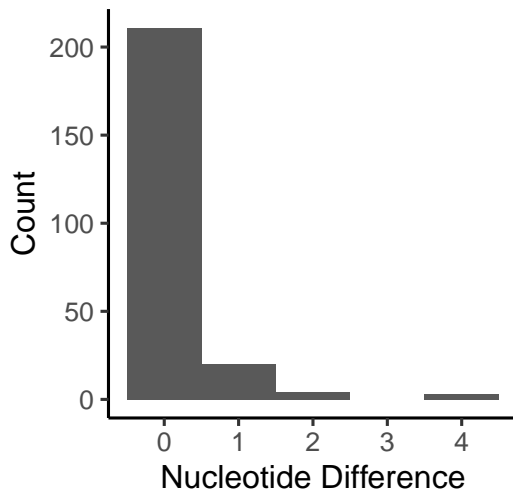
IGHV1-2*04

902 sequences assigned
801 (88.8%) exact matches, in which:
774 unique CDR3
6 unique J



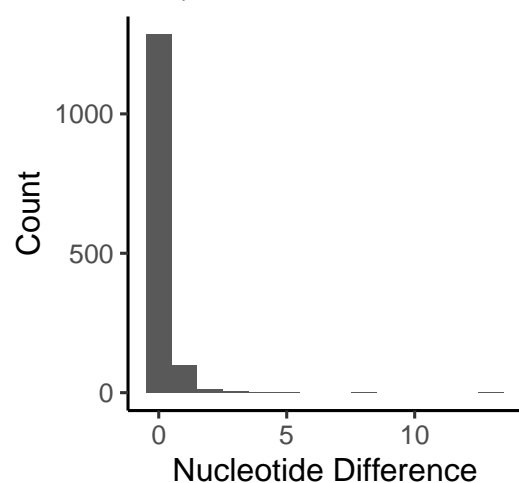
IGHV1-24*01

238 sequences assigned
211 (88.7%) exact matches, in which:
204 unique CDR3
6 unique J



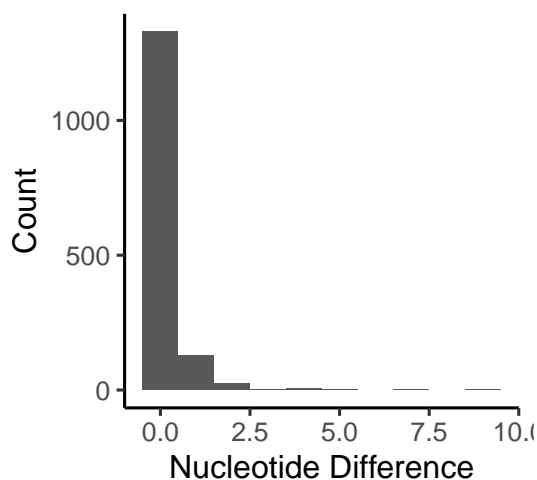
IGHV1-46*01

1410 sequences assigned
1285 (91.1%) exact matches, in which:
1214 unique CDR3
6 unique J



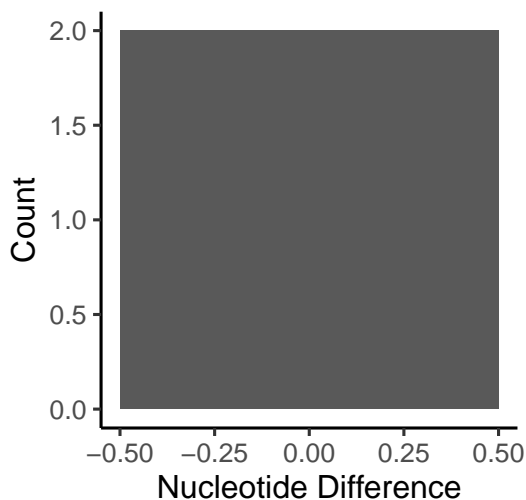
IGHV1-3*01

1495 sequences assigned
1329 (88.9%) exact matches, in which:
1267 unique CDR3
6 unique J



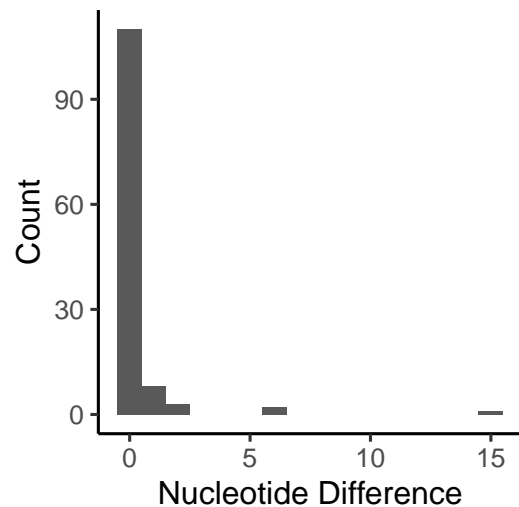
IGHV1-45*02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



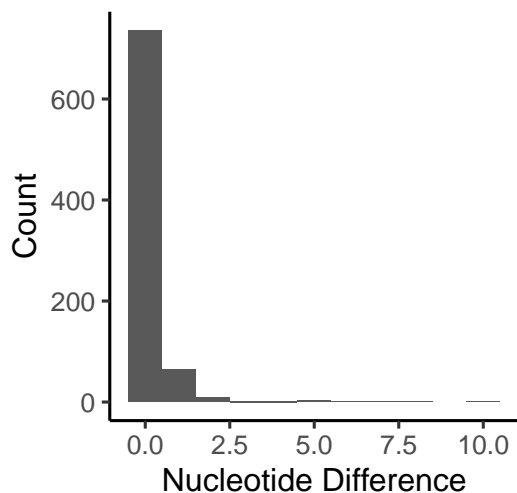
IGHV1-58*01

124 sequences assigned
110 (88.7%) exact matches, in which:
108 unique CDR3
6 unique J



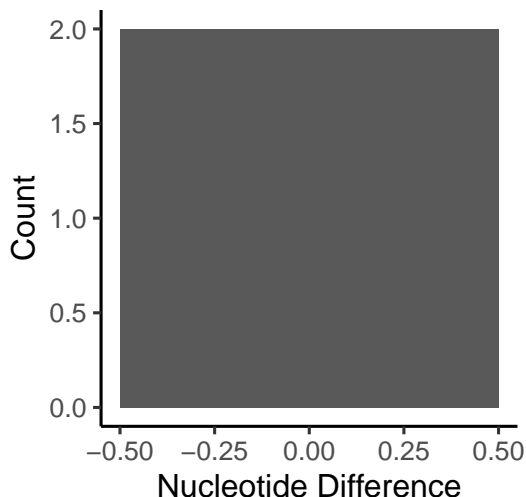
IGHV1-18*01

820 sequences assigned
736 (89.8%) exact matches, in which:
710 unique CDR3
6 unique J



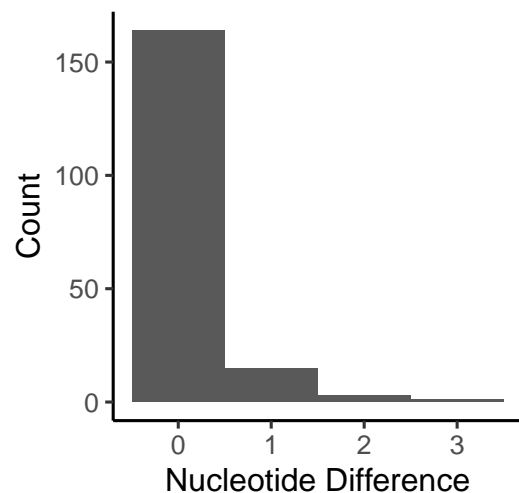
IGHV1-45*03

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



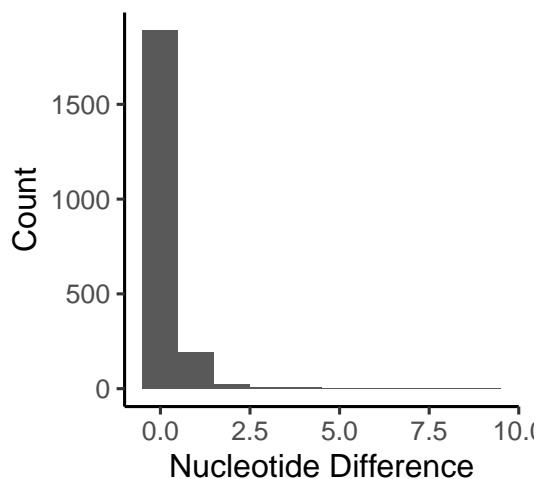
IGHV1-58*02

183 sequences assigned
164 (89.6%) exact matches, in which:
158 unique CDR3
5 unique J



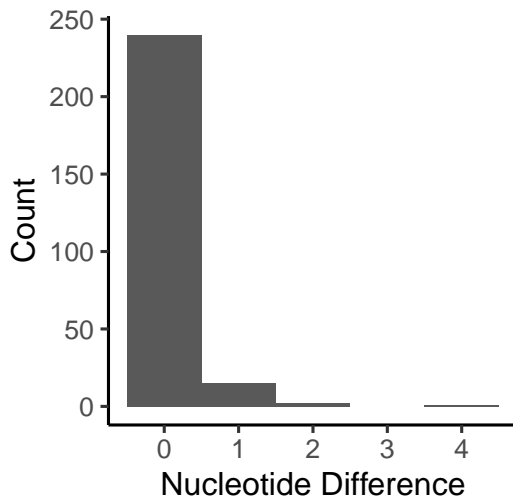
IGHV1-69*04

2128 sequences assigned
1890 (88.8%) exact matches, in which:
1754 unique CDR3
6 unique J



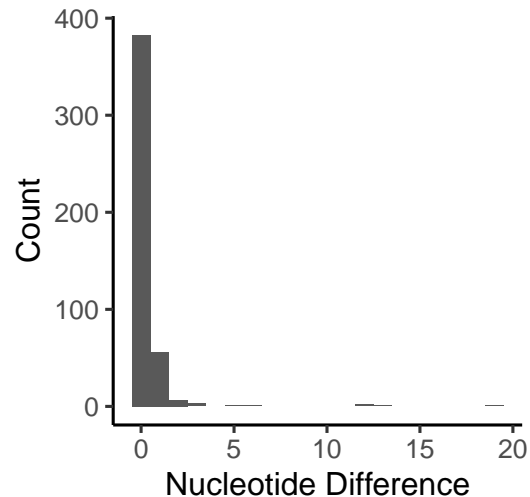
IGHV2-26*01

258 sequences assigned
240 (93%) exact matches, in which:
233 unique CDR3
6 unique J



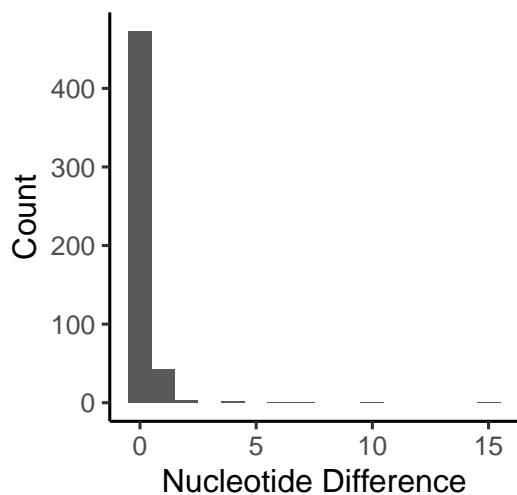
IGHV3-7*03

455 sequences assigned
383 (84.2%) exact matches, in which:
359 unique CDR3
6 unique J



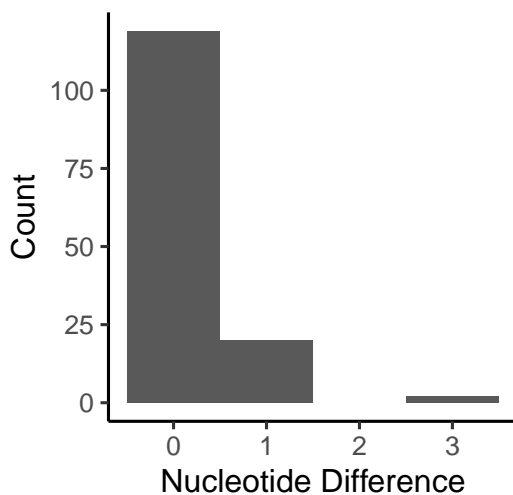
IGHV2-5*01

526 sequences assigned
473 (89.9%) exact matches, in which:
459 unique CDR3
6 unique J



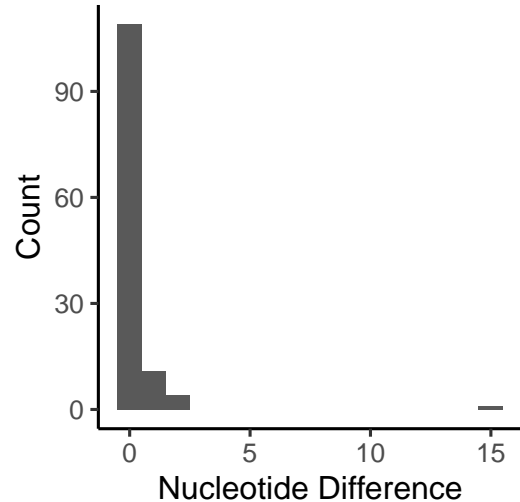
IGHV2-70*01

141 sequences assigned
119 (84.4%) exact matches, in which:
118 unique CDR3
5 unique J



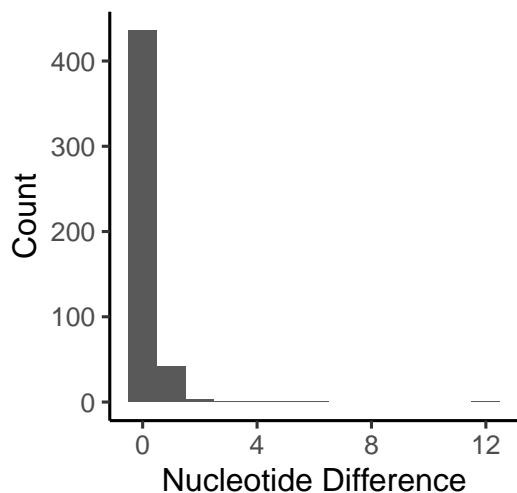
IGHV3-7*05

125 sequences assigned
109 (87.2%) exact matches, in which:
106 unique CDR3
6 unique J



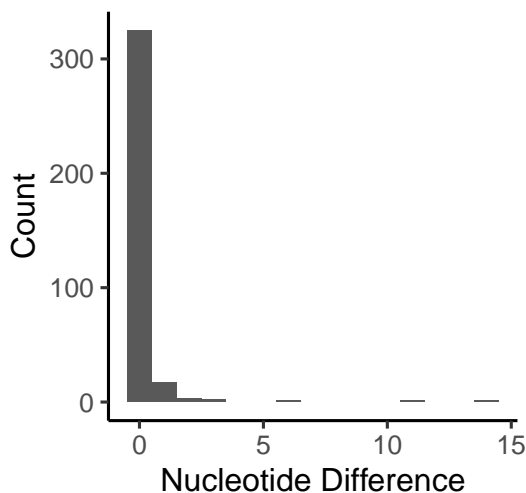
IGHV2-5*02

486 sequences assigned
436 (89.7%) exact matches, in which:
413 unique CDR3
6 unique J



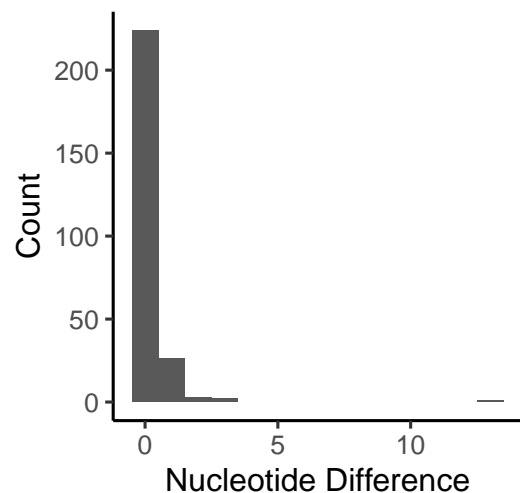
IGHV2-70*15

350 sequences assigned
325 (92.9%) exact matches, in which:
314 unique CDR3
5 unique J



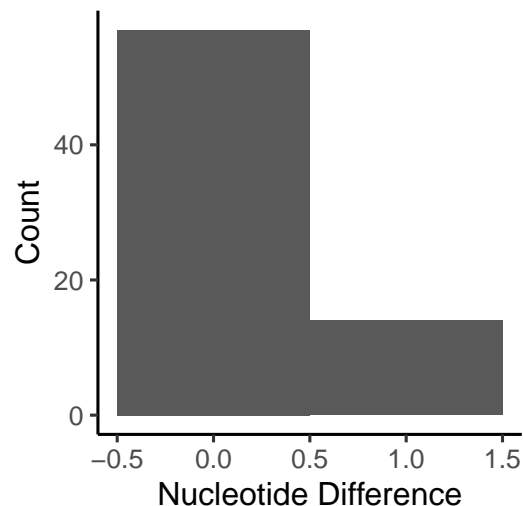
IGHV3-11*06

260 sequences assigned
224 (86.2%) exact matches, in which:
211 unique CDR3
6 unique J



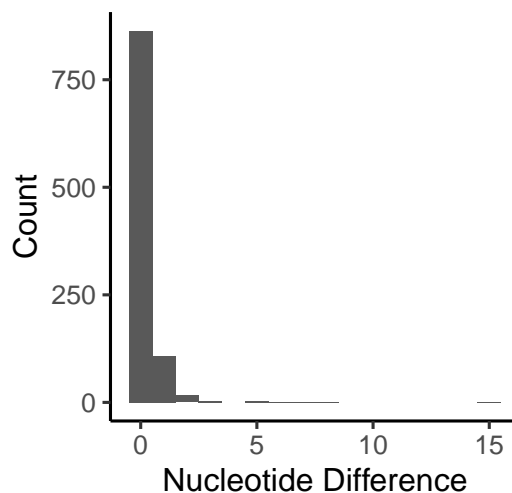
IGHV3-13*05

72 sequences assigned
57 (79.2%) exact matches, in which:
54 unique CDR3
4 unique J



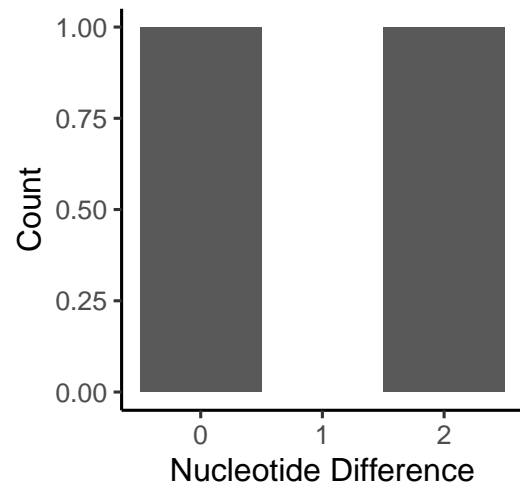
IGHV3-21*01

999 sequences assigned
864 (86.5%) exact matches, in which:
826 unique CDR3
6 unique J



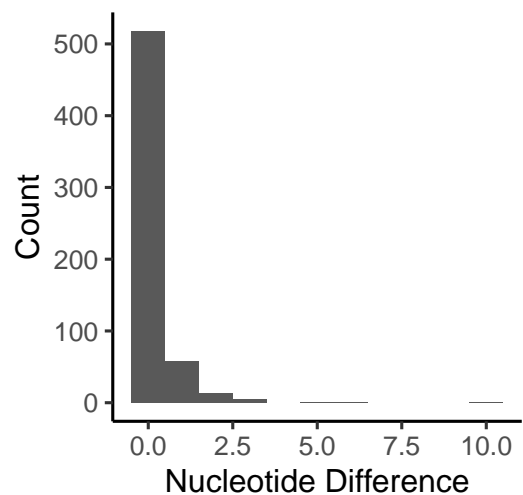
IGHV3-35*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



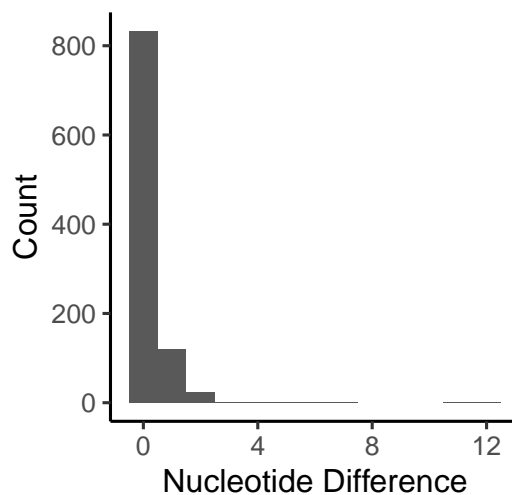
IGHV3-15*01

598 sequences assigned
518 (86.6%) exact matches, in which:
499 unique CDR3
6 unique J



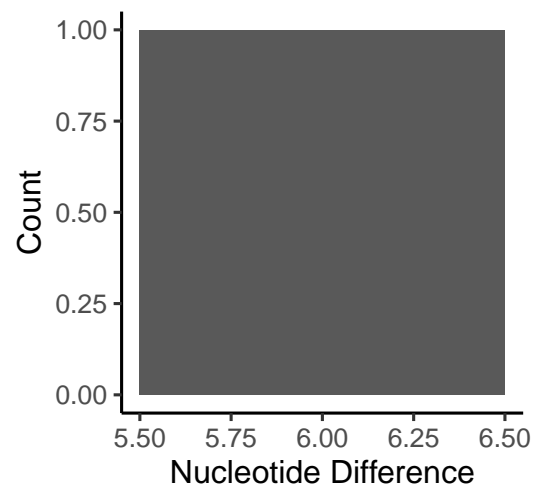
IGHV3-30-3*01

991 sequences assigned
833 (84.1%) exact matches, in which:
790 unique CDR3
6 unique J



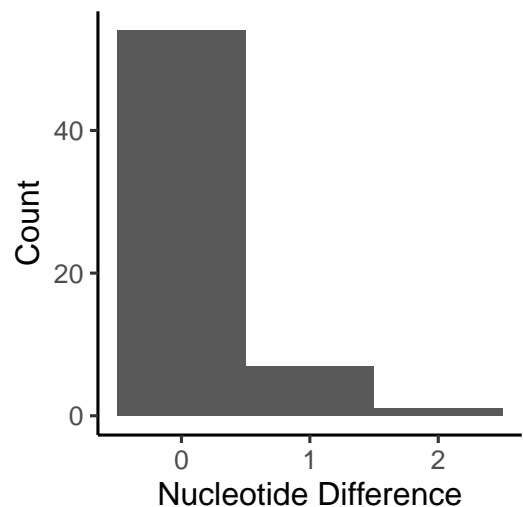
IGHV3-41*02

1 sequences assigned
No exact matches.



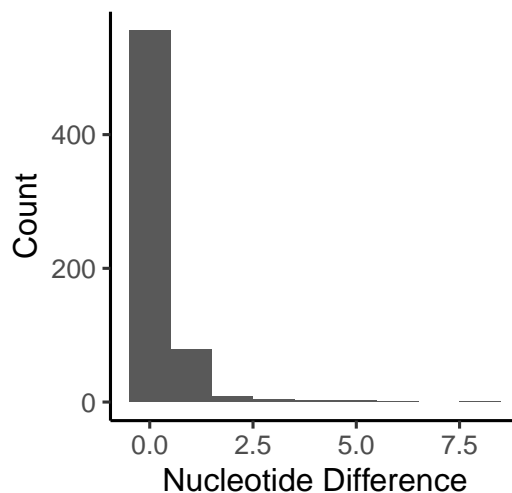
IGHV3-20*01

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



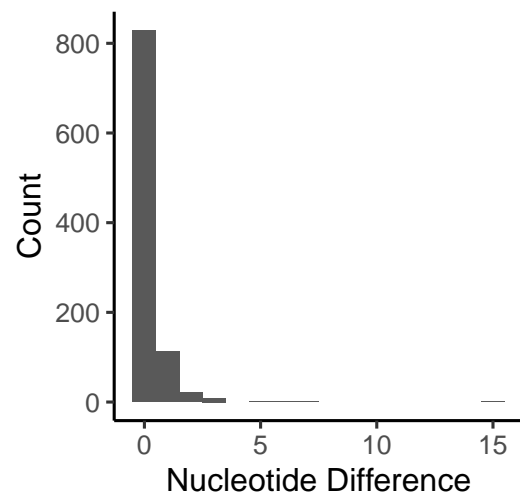
IGHV3-33*01

653 sequences assigned
556 (85.1%) exact matches, in which:
541 unique CDR3
6 unique J



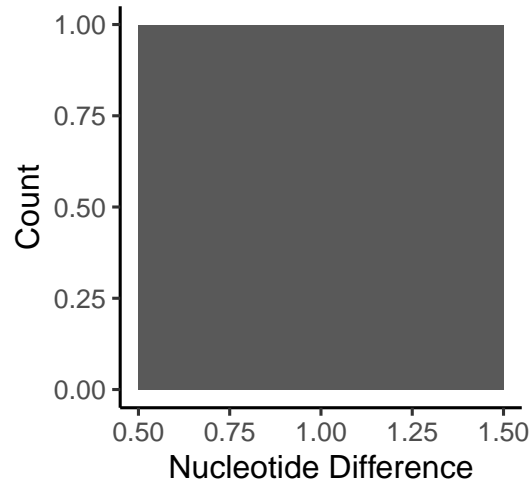
IGHV3-43*02

977 sequences assigned
829 (84.9%) exact matches, in which:
782 unique CDR3
6 unique J



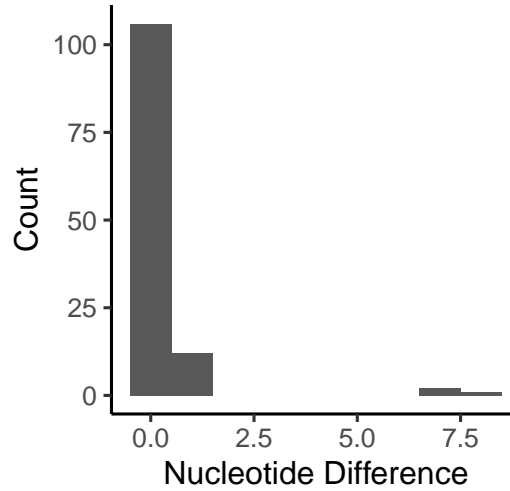
IGHV3-47*01

1 sequences assigned
No exact matches.



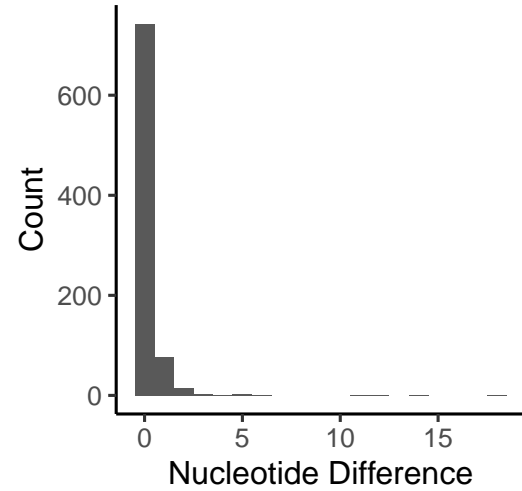
IGHV3-53*02

121 sequences assigned
106 (87.6%) exact matches, in which:
100 unique CDR3
6 unique J



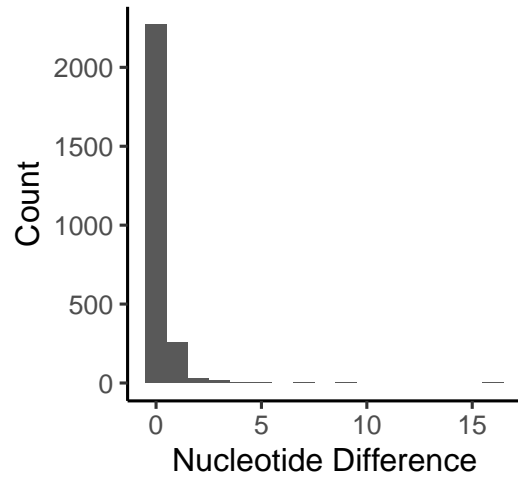
IGHV3-66*01

843 sequences assigned
743 (88.1%) exact matches, in which:
691 unique CDR3
6 unique J



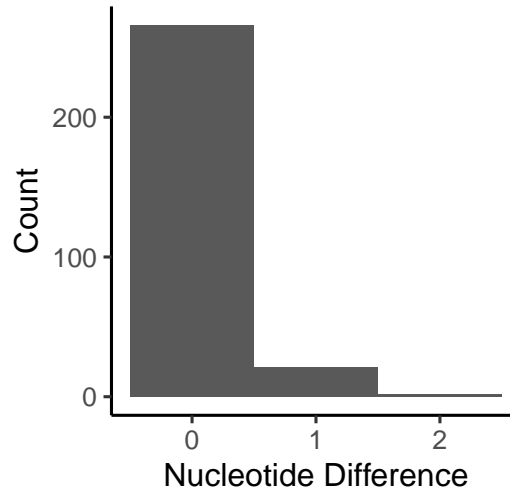
IGHV3-48*03

2579 sequences assigned
2270 (88%) exact matches, in which:
2169 unique CDR3
6 unique J



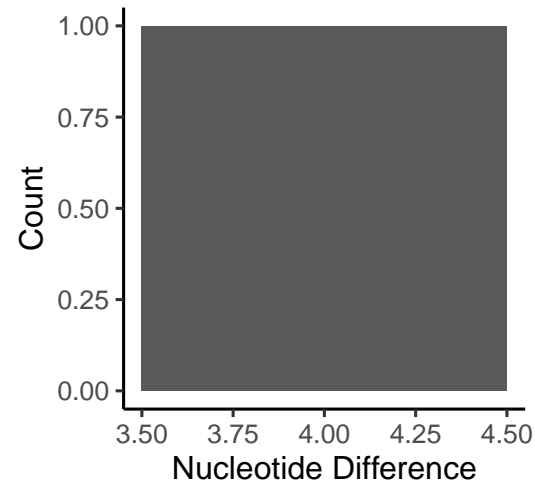
IGHV3-53*04

289 sequences assigned
266 (92%) exact matches, in which:
251 unique CDR3
6 unique J



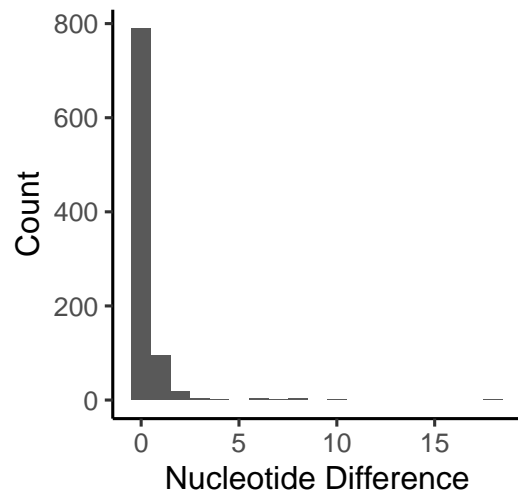
IGHV3-69-1*02

1 sequences assigned
No exact matches.



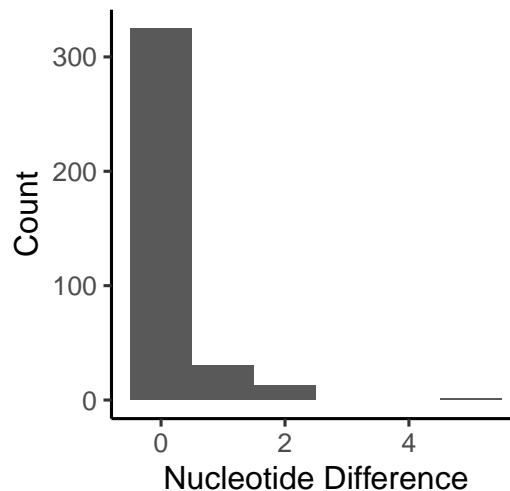
IGHV3-49*04

918 sequences assigned
790 (86.1%) exact matches, in which:
757 unique CDR3
6 unique J



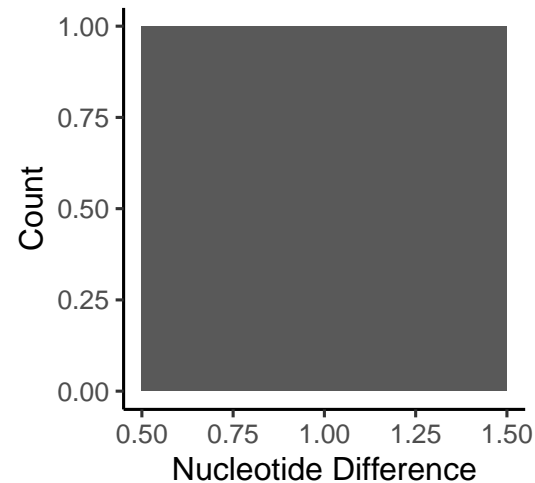
IGHV3-64*01

369 sequences assigned
325 (88.1%) exact matches, in which:
303 unique CDR3
6 unique J



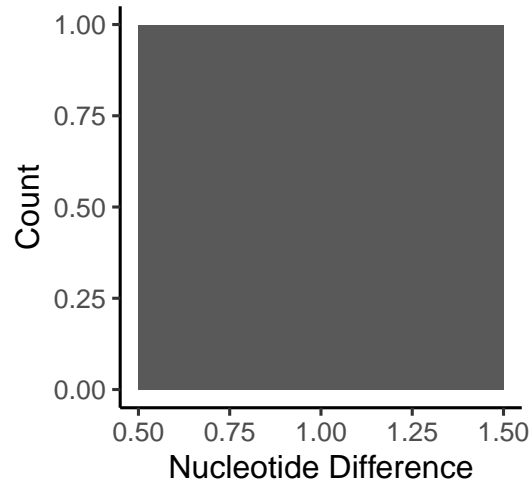
IGHV3-71*02

1 sequences assigned
No exact matches.



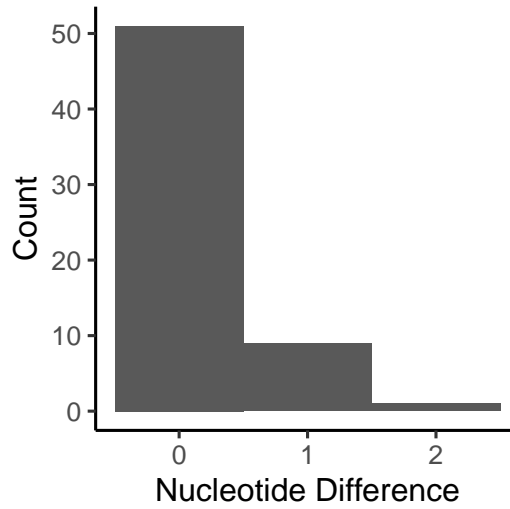
IGHV3-71*03

1 sequences assigned
No exact matches.



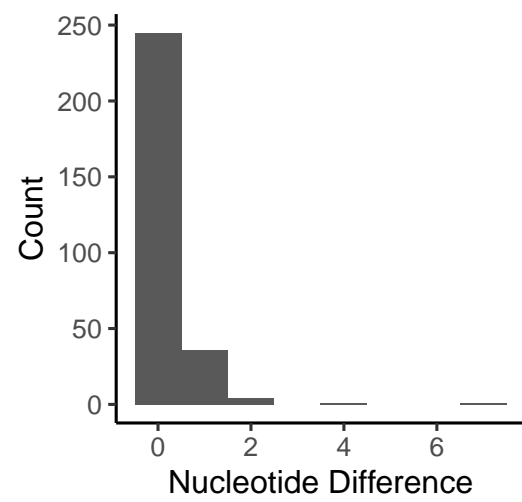
IGHV3-73*02

61 sequences assigned
51 (83.6%) exact matches, in which:
51 unique CDR3
4 unique J



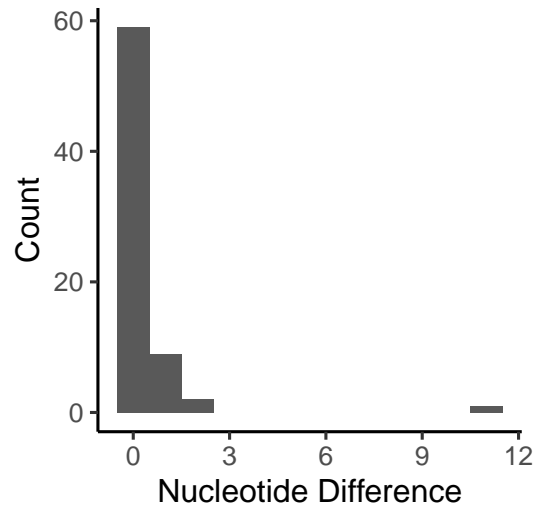
IGHV3-64D*08

288 sequences assigned
245 (85.1%) exact matches, in which:
228 unique CDR3
6 unique J



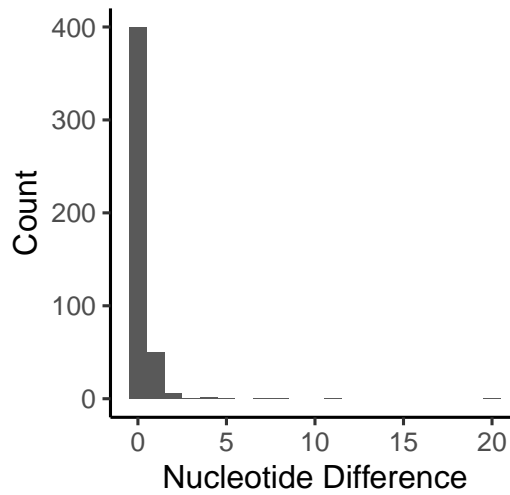
IGHV3-72*01

72 sequences assigned
59 (81.9%) exact matches, in which:
57 unique CDR3
6 unique J



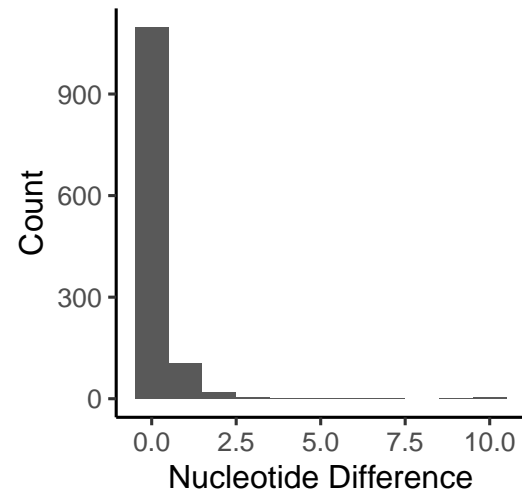
IGHV3-74*01

464 sequences assigned
400 (86.2%) exact matches, in which:
382 unique CDR3
6 unique J



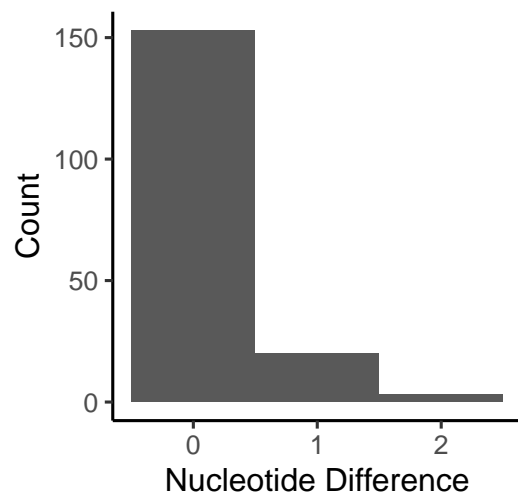
IGHV4-4*02

1237 sequences assigned
1098 (88.8%) exact matches, in which:
1059 unique CDR3
6 unique J



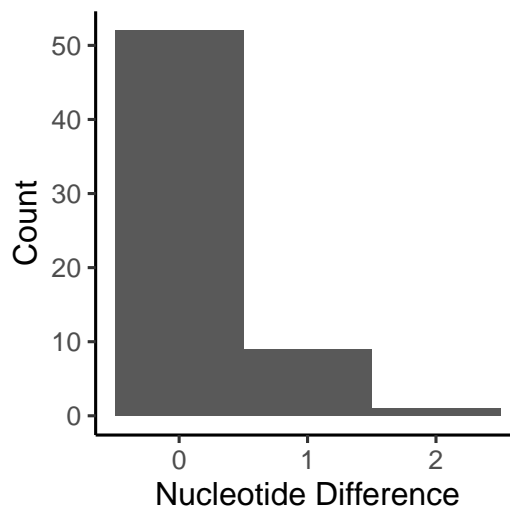
IGHV3-73*01

176 sequences assigned
153 (86.9%) exact matches, in which:
147 unique CDR3
5 unique J



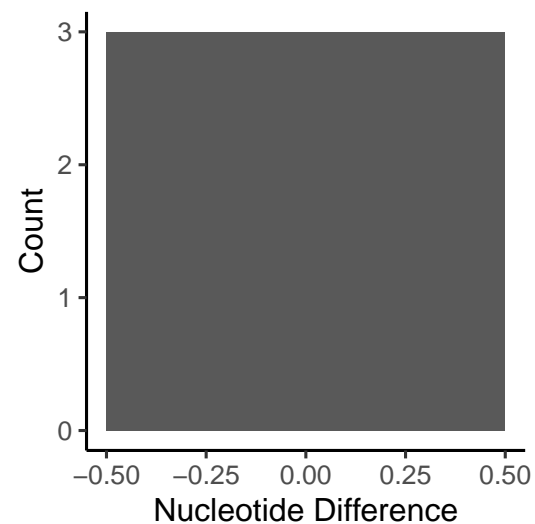
IGHV3-43D*04

62 sequences assigned
52 (83.9%) exact matches, in which:
49 unique CDR3
5 unique J



IGHV4-28*01

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



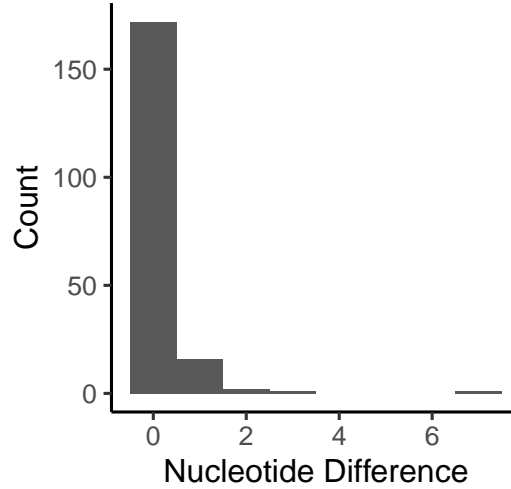
IGHV4-28*03

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



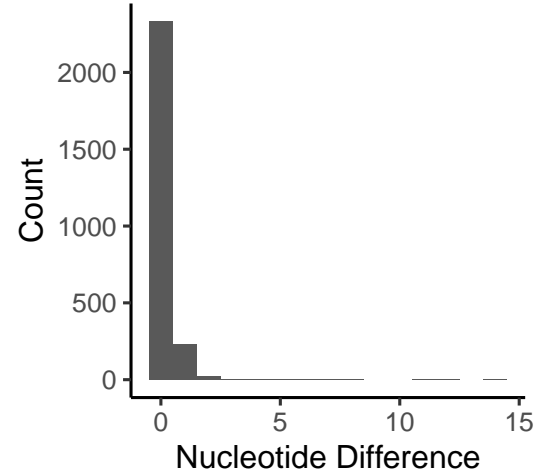
IGHV4-30-2*01

192 sequences assigned
172 (89.6%) exact matches, in which:
168 unique CDR3
6 unique J



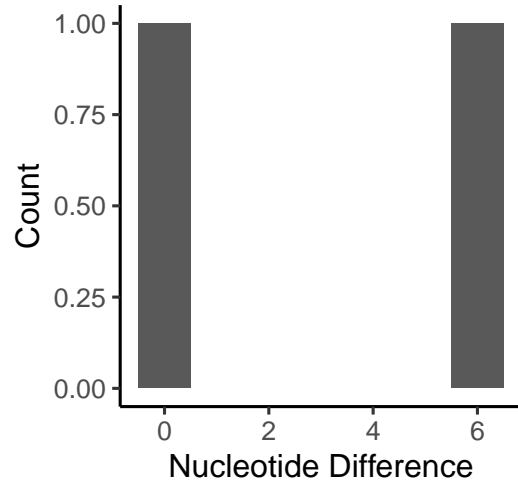
IGHV4-34*01

2620 sequences assigned
2332 (89%) exact matches, in which:
2169 unique CDR3
6 unique J



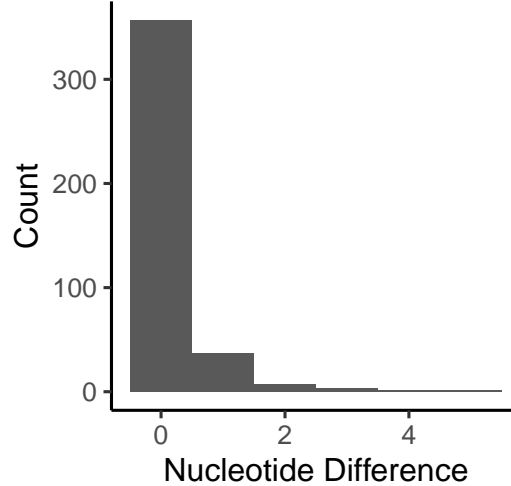
IGHV4-28*04

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



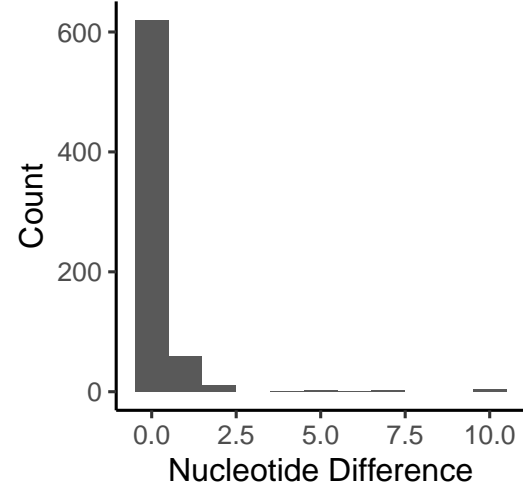
IGHV4-30-4*01

407 sequences assigned
357 (87.7%) exact matches, in which:
350 unique CDR3
6 unique J



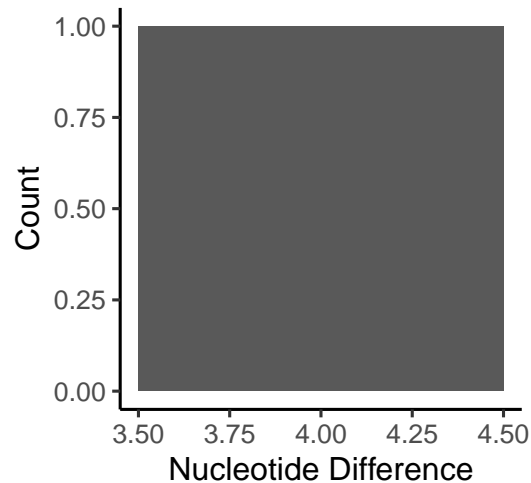
IGHV4-38-2*02_A70G

701 sequences assigned
620 (88.4%) exact matches, in which:
576 unique CDR3
6 unique J



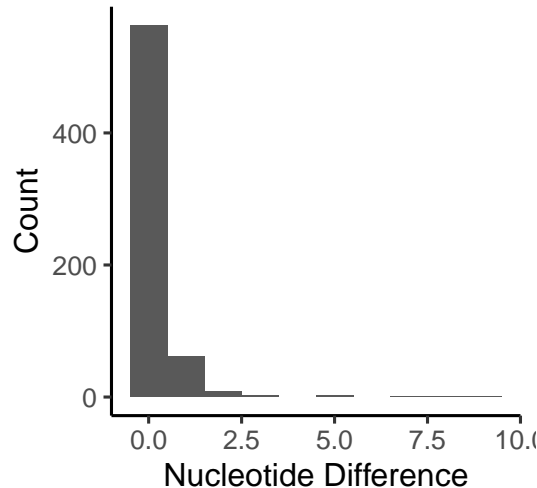
IGHV4-28*06

1 sequences assigned
No exact matches.



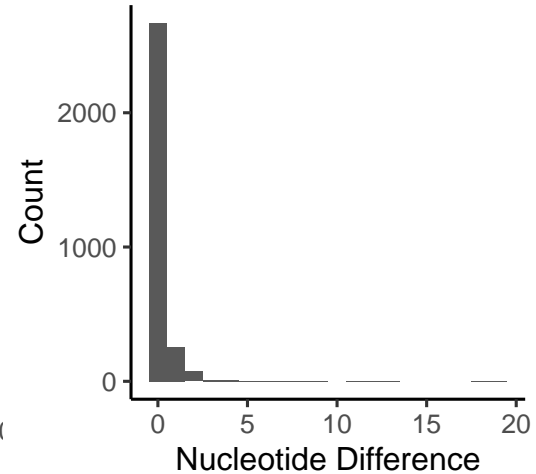
IGHV4-31*03

642 sequences assigned
563 (87.7%) exact matches, in which:
541 unique CDR3
6 unique J



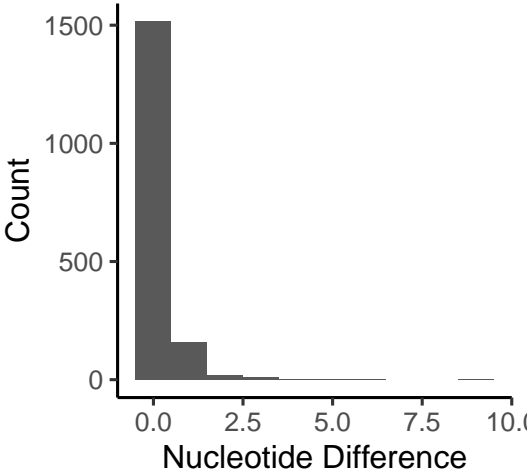
IGHV4-39*01

3037 sequences assigned
2668 (87.8%) exact matches, in which:
2463 unique CDR3
6 unique J



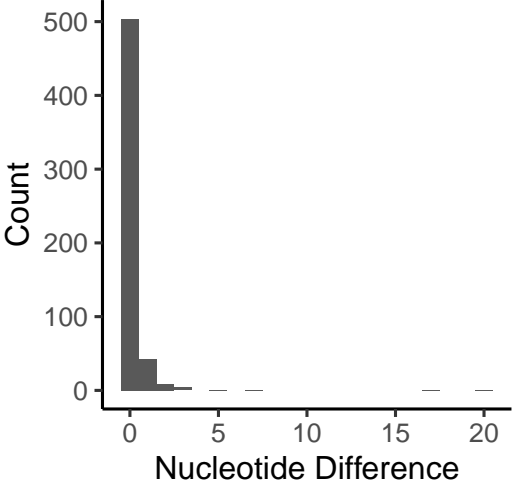
IGHV4-59*01

1711 sequences assigned
1516 (88.6%) exact matches, in which:
1466 unique CDR3
6 unique J



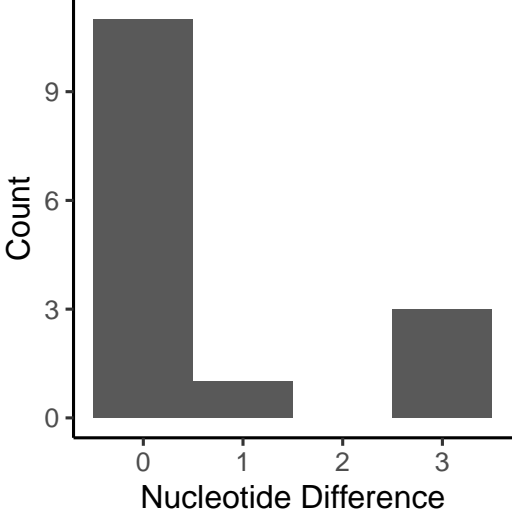
IGHV5-10-1*03

564 sequences assigned
504 (89.4%) exact matches, in which:
480 unique CDR3
6 unique J



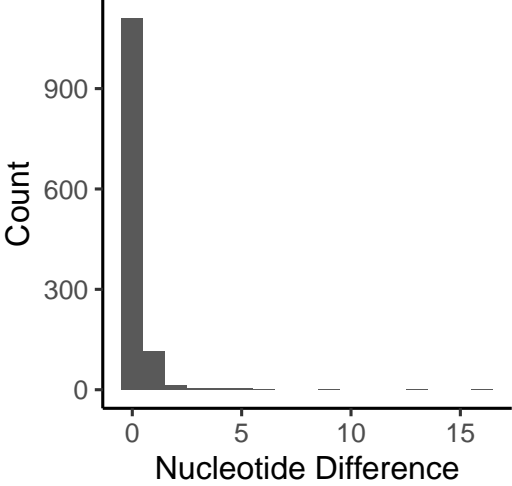
IGHV7-4-1*01

15 sequences assigned
11 (73.3%) exact matches, in which:
10 unique CDR3
5 unique J



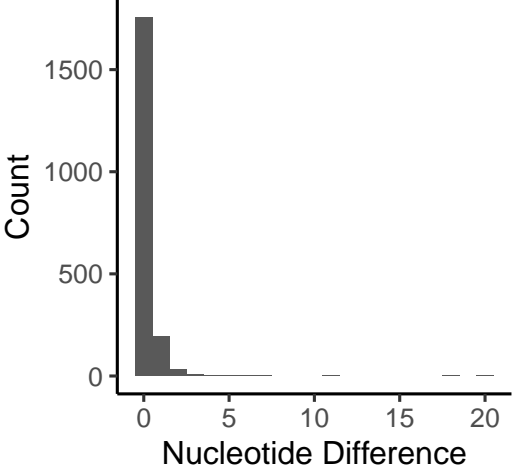
IGHV4-59*08

1258 sequences assigned
1111 (88.3%) exact matches, in which:
1063 unique CDR3
6 unique J



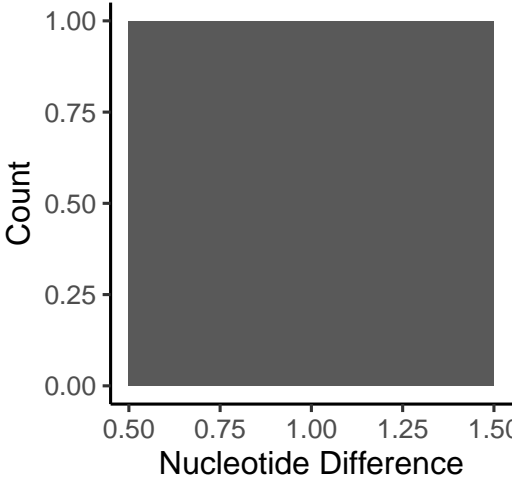
IGHV5-51*01

2003 sequences assigned
1754 (87.6%) exact matches, in which:
1668 unique CDR3
6 unique J



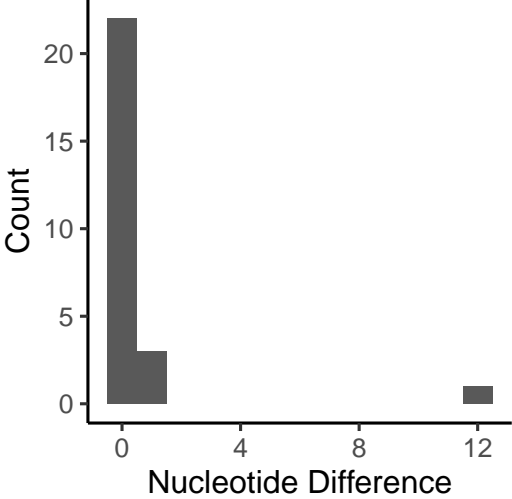
IGHV7-81*01

1 sequences assigned
No exact matches.



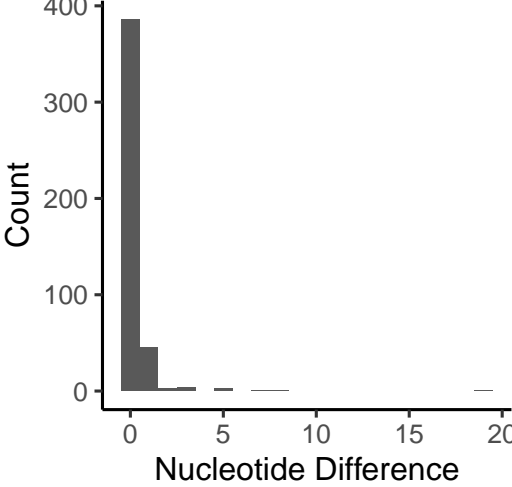
IGHV4-61*01

26 sequences assigned
22 (84.6%) exact matches, in which:
20 unique CDR3
4 unique J



IGHV6-1*01

444 sequences assigned
386 (86.9%) exact matches, in which:
372 unique CDR3
6 unique J





Warning – no inferred sequences found.