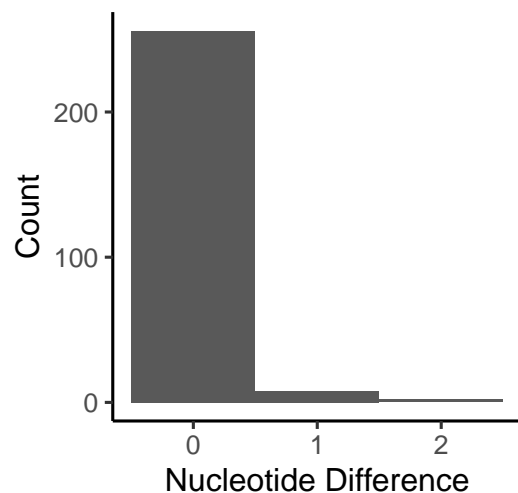


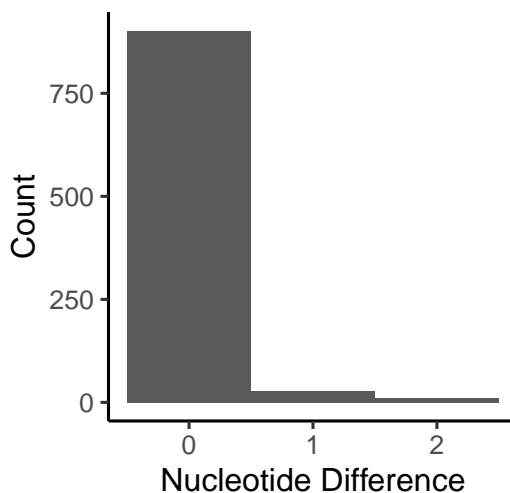
IGHV1-2*04

266 sequences assigned
256 (96.2%) exact matches, in which:
254 unique CDR3
7 unique J



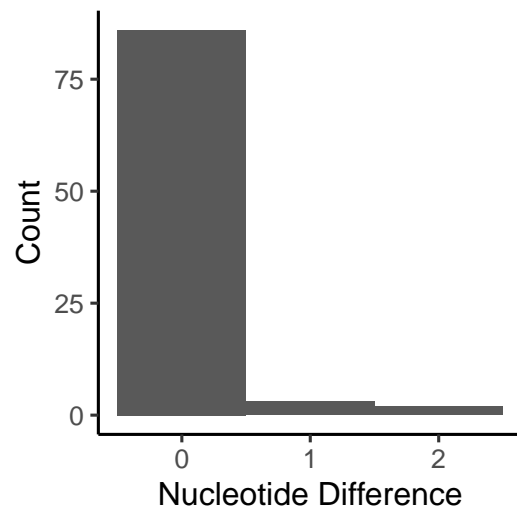
IGHV1-18*01

941 sequences assigned
902 (95.9%) exact matches, in which:
898 unique CDR3
7 unique J



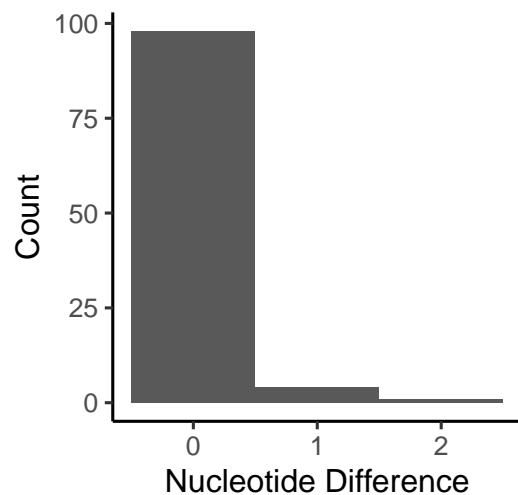
IGHV1-46*03

91 sequences assigned
86 (94.5%) exact matches, in which:
86 unique CDR3
4 unique J



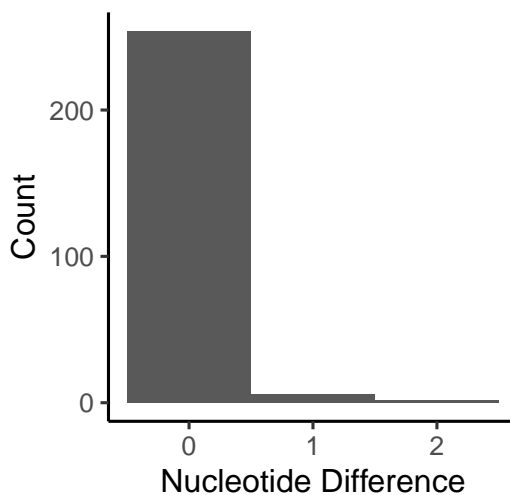
IGHV1-3*01_05

103 sequences assigned
98 (95.1%) exact matches, in which:
98 unique CDR3
4 unique J



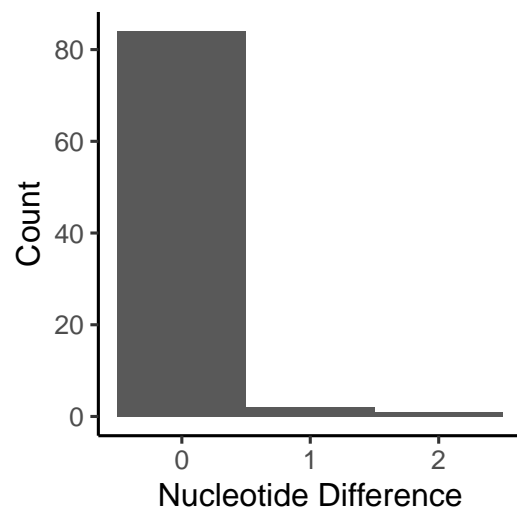
IGHV1-24*01

262 sequences assigned
254 (96.9%) exact matches, in which:
252 unique CDR3
6 unique J



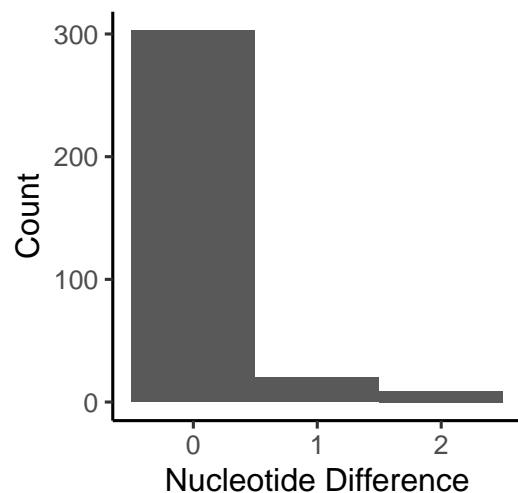
IGHV1-58*01_03

87 sequences assigned
84 (96.6%) exact matches, in which:
84 unique CDR3
6 unique J



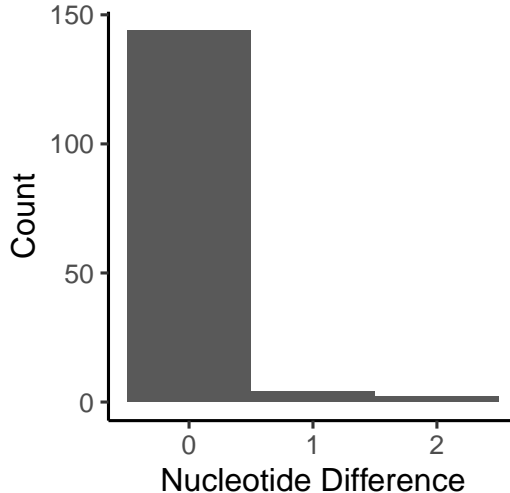
IGHV1-8*01

332 sequences assigned
303 (91.3%) exact matches, in which:
302 unique CDR3
7 unique J



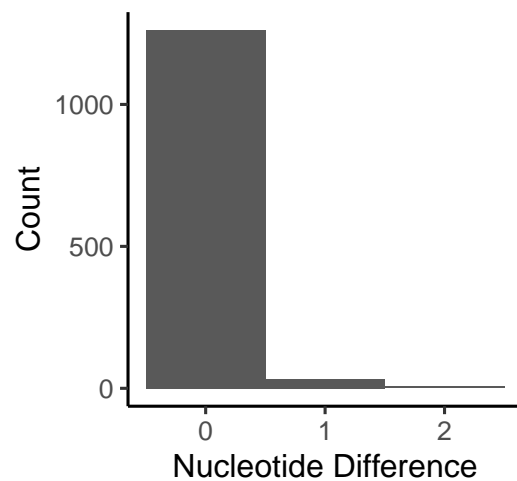
IGHV1-46*01

150 sequences assigned
144 (96%) exact matches, in which:
144 unique CDR3
6 unique J



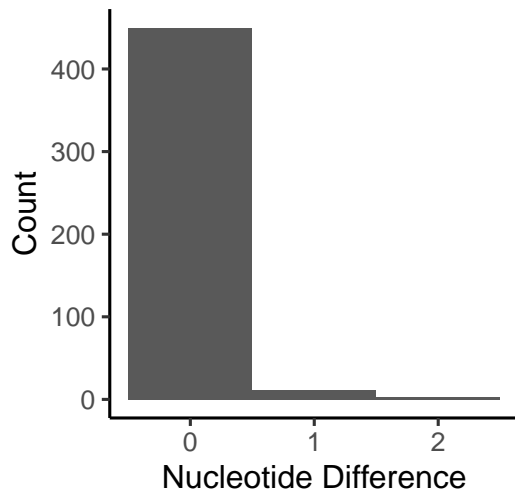
IGHV1-69*01_12_13

1302 sequences assigned
1262 (96.9%) exact matches, in which:
1255 unique CDR3
7 unique J



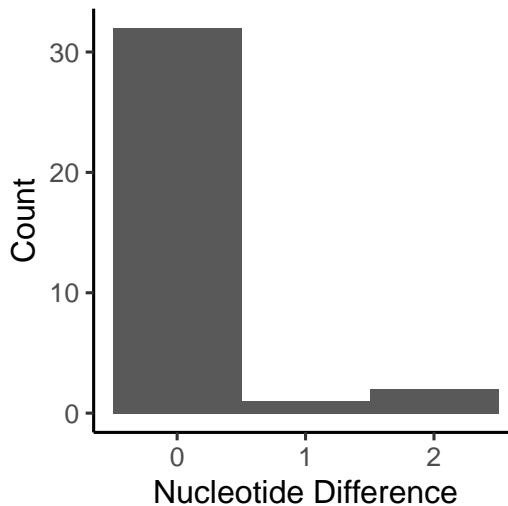
IGHV1-69*06_14

464 sequences assigned
450 (97%) exact matches, in which:
449 unique CDR3
6 unique J



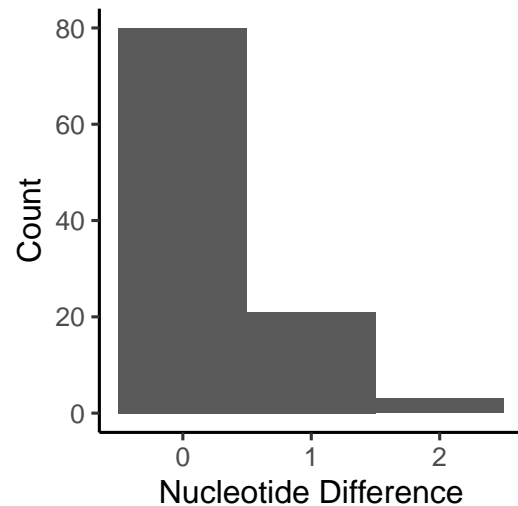
IGHV2-26*01

35 sequences assigned
32 (91.4%) exact matches, in which:
32 unique CDR3
6 unique J



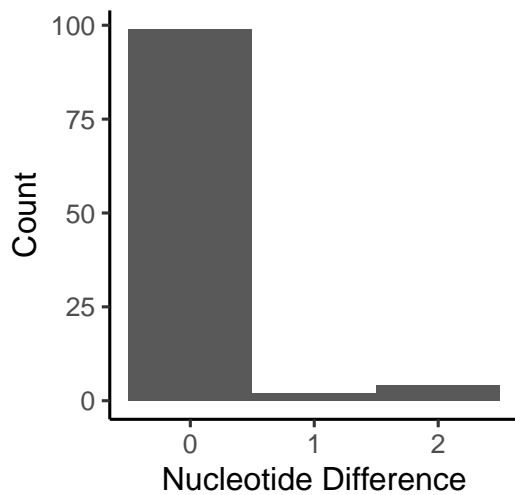
IGHV3-7*04

104 sequences assigned
80 (76.9%) exact matches, in which:
78 unique CDR3
6 unique J



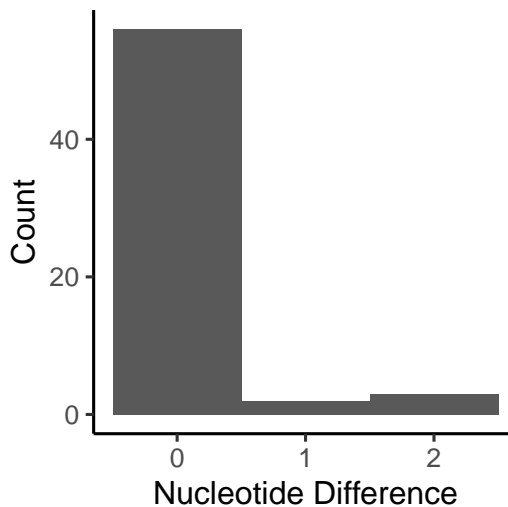
IGHV2-5*01

105 sequences assigned
99 (94.3%) exact matches, in which:
97 unique CDR3
6 unique J



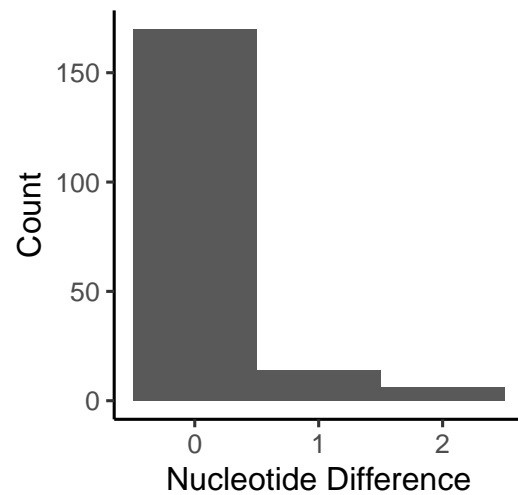
IGHV2-70*01

61 sequences assigned
56 (91.8%) exact matches, in which:
55 unique CDR3
6 unique J



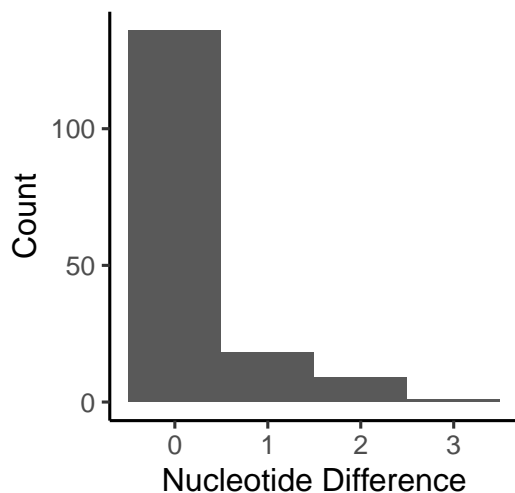
IGHV3-9*01

190 sequences assigned
170 (89.5%) exact matches, in which:
169 unique CDR3
6 unique J



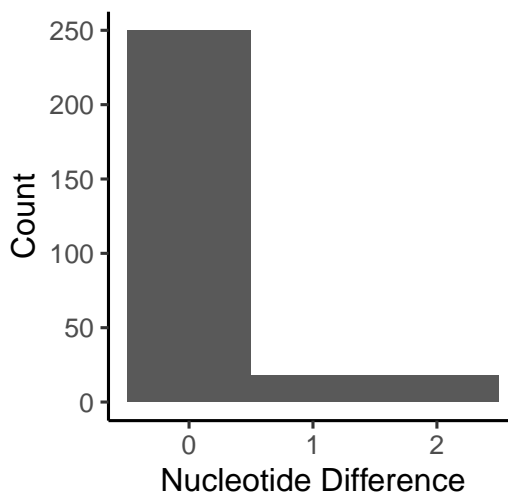
IGHV2-5*02

164 sequences assigned
136 (82.9%) exact matches, in which:
133 unique CDR3
6 unique J



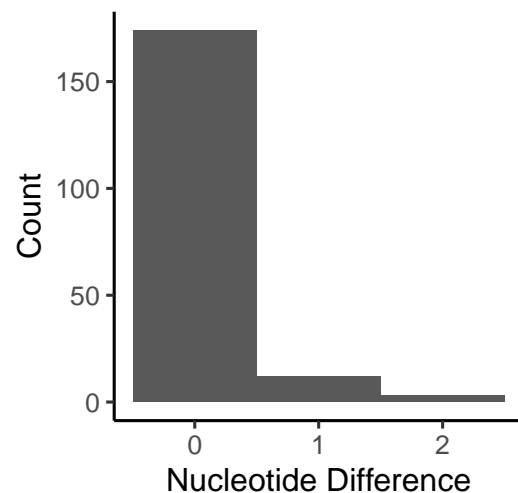
IGHV3-7*01

286 sequences assigned
250 (87.4%) exact matches, in which:
246 unique CDR3
6 unique J



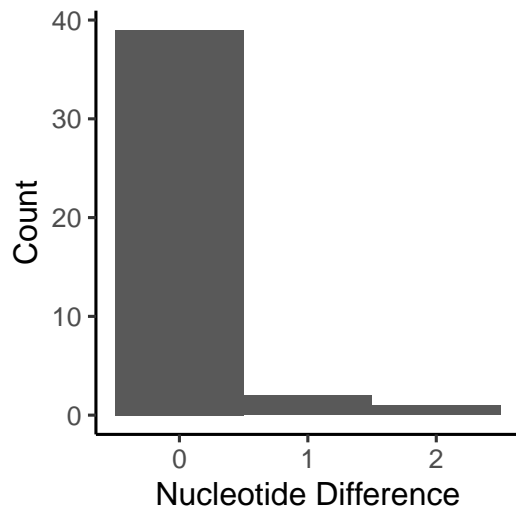
IGHV3-11*01

189 sequences assigned
174 (92.1%) exact matches, in which:
169 unique CDR3
6 unique J



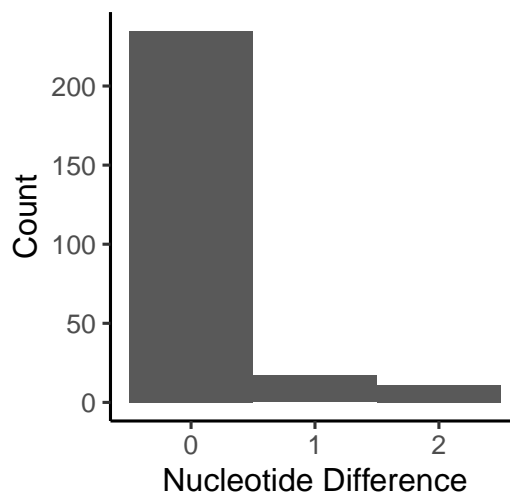
IGHV3-11*06

42 sequences assigned
39 (92.9%) exact matches, in which:
39 unique CDR3
5 unique J



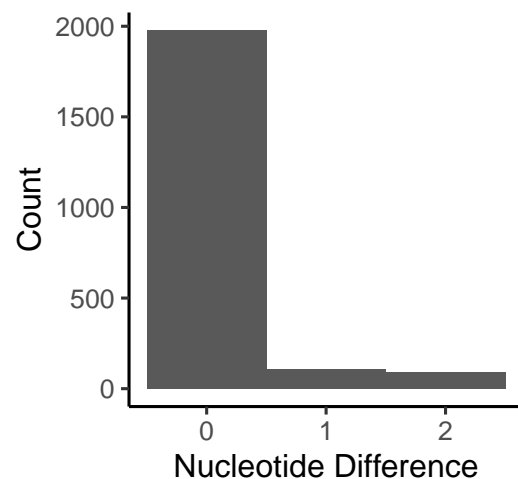
IGHV3-15*01_02

263 sequences assigned
235 (89.4%) exact matches, in which:
231 unique CDR3
7 unique J



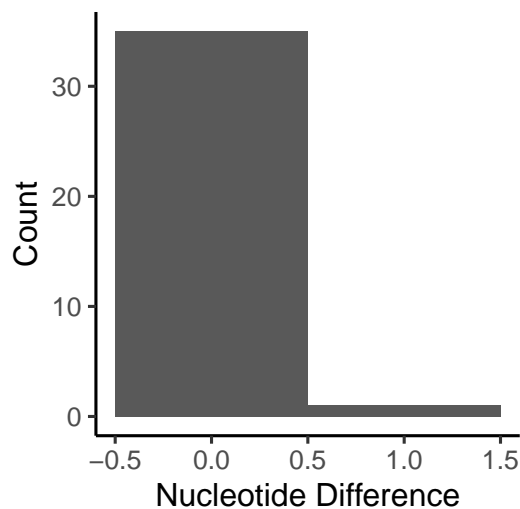
IGHV3-23*01_04

2176 sequences assigned
1977 (90.9%) exact matches, in which:
1911 unique CDR3
7 unique J



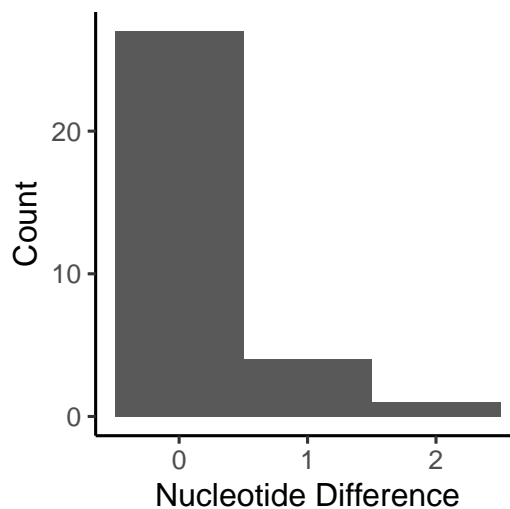
IGHV3-13*01

36 sequences assigned
35 (97.2%) exact matches, in which:
33 unique CDR3
4 unique J



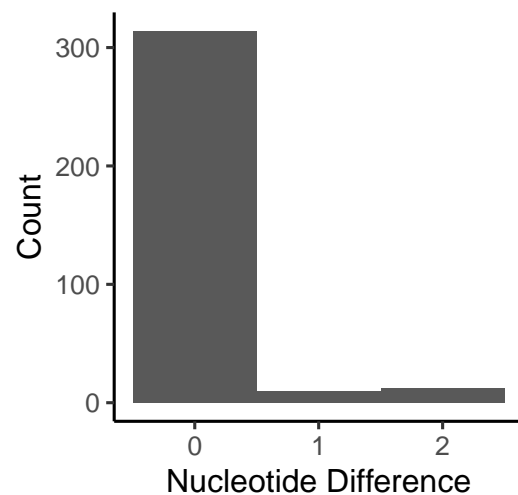
IGHV3-20*01_02

32 sequences assigned
27 (84.4%) exact matches, in which:
25 unique CDR3
5 unique J



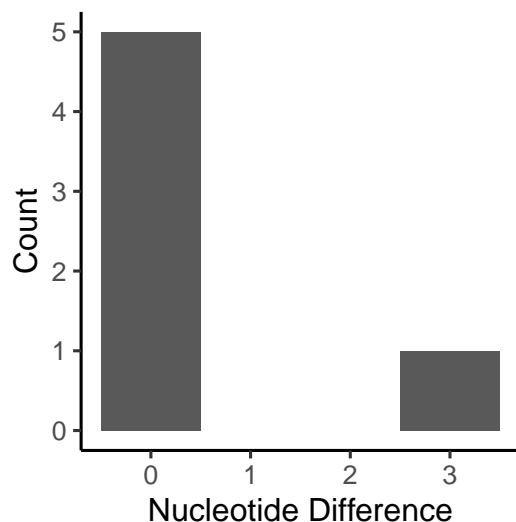
IGHV3-30*03

336 sequences assigned
314 (93.5%) exact matches, in which:
310 unique CDR3
7 unique J



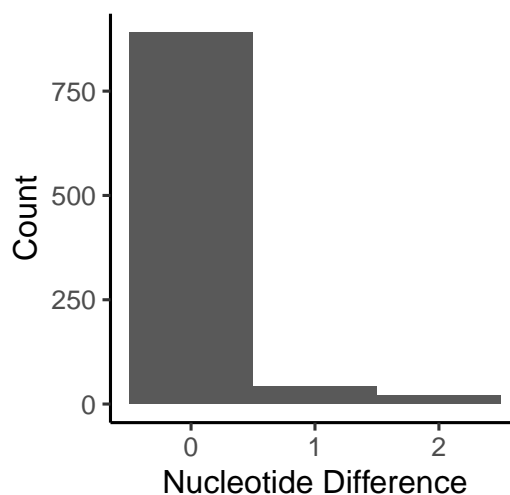
IGHV3-13*05

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
4 unique J



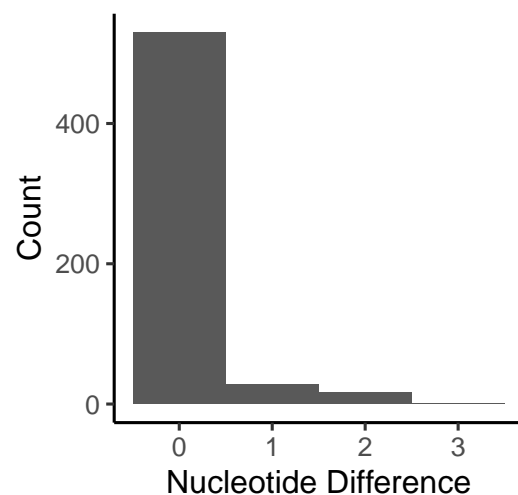
IGHV3-21*01_02

955 sequences assigned
891 (93.3%) exact matches, in which:
862 unique CDR3
7 unique J



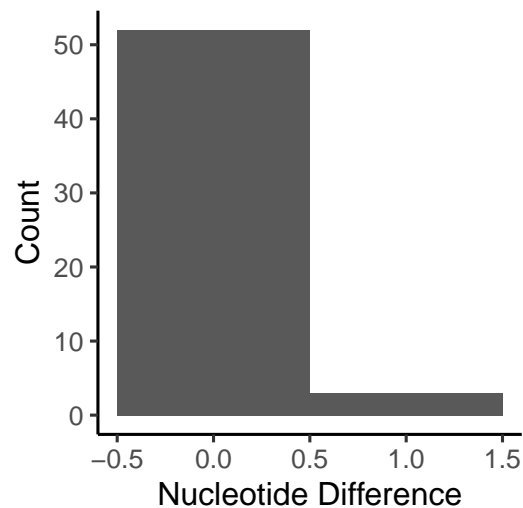
IGHV3-33*01

576 sequences assigned
530 (92%) exact matches, in which:
520 unique CDR3
7 unique J



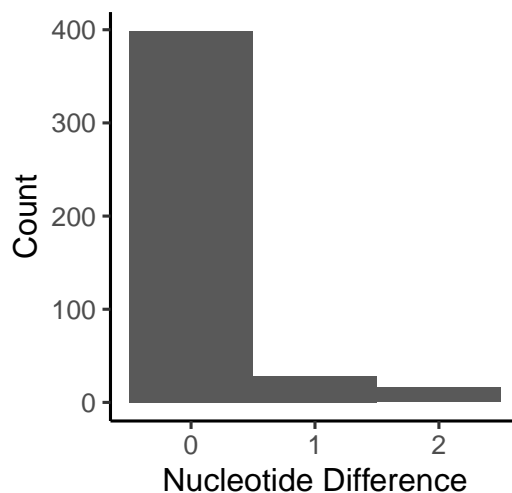
IGHV3-43*01

55 sequences assigned
52 (94.5%) exact matches, in which:
50 unique CDR3
6 unique J



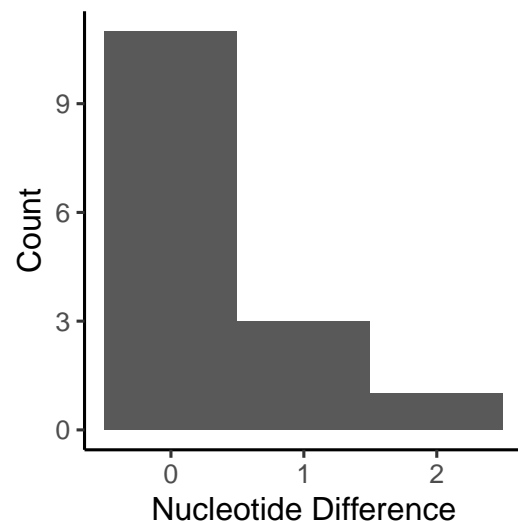
IGHV3-53*01_02

443 sequences assigned
399 (90.1%) exact matches, in which:
390 unique CDR3
7 unique J



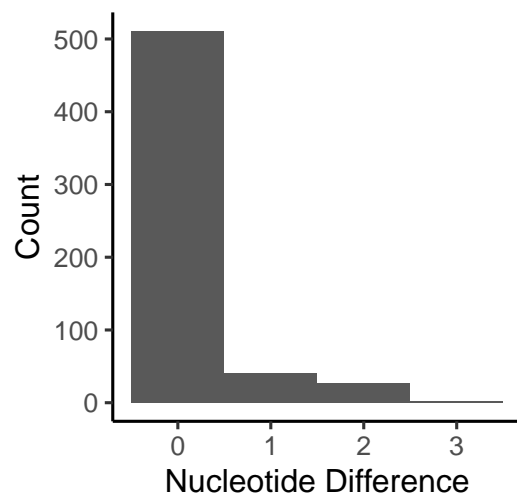
IGHV3-72*01

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



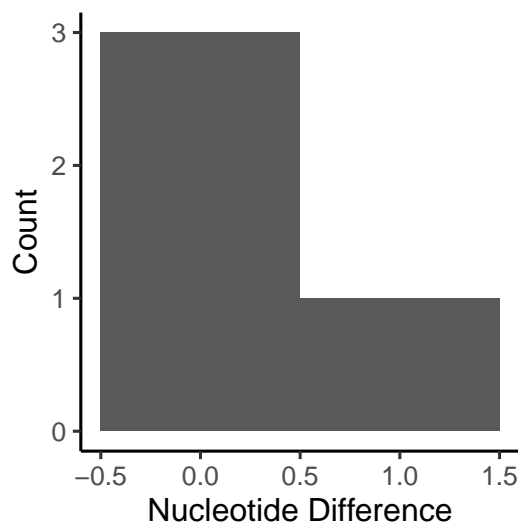
IGHV3-48*02

581 sequences assigned
511 (88%) exact matches, in which:
499 unique CDR3
7 unique J



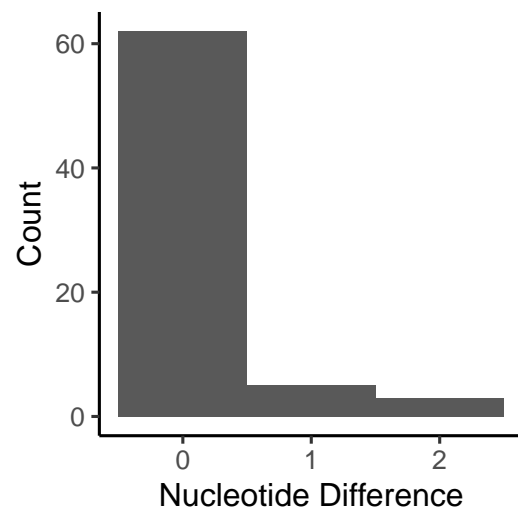
IGHV3-64*02_07

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
3 unique J



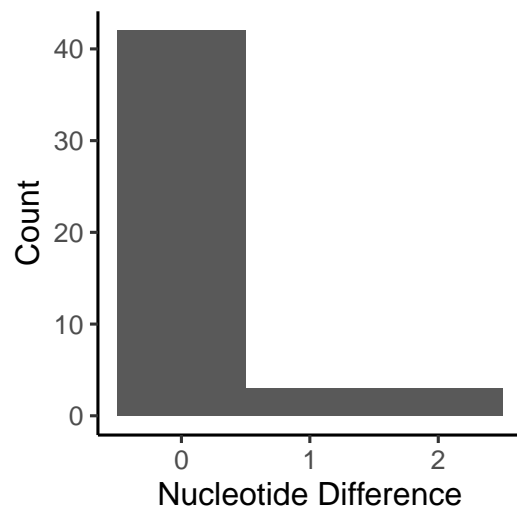
IGHV3-73*01_02

70 sequences assigned
62 (88.6%) exact matches, in which:
61 unique CDR3
6 unique J



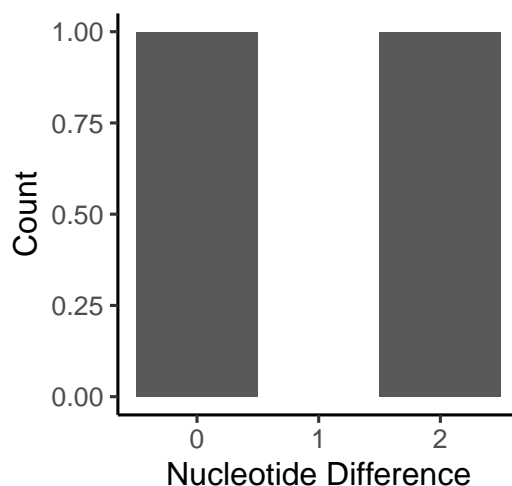
IGHV3-49*03_05

48 sequences assigned
42 (87.5%) exact matches, in which:
42 unique CDR3
6 unique J



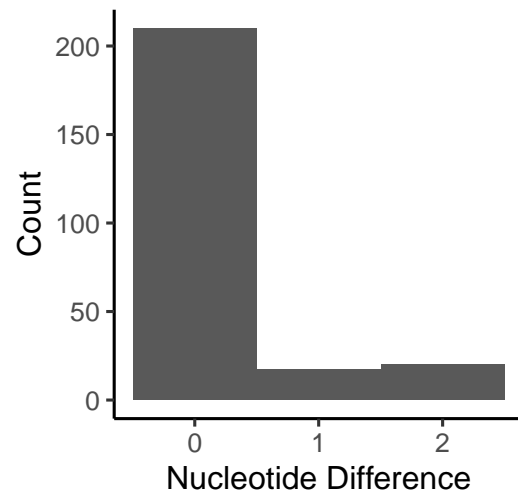
IGHV3-69-1*01

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



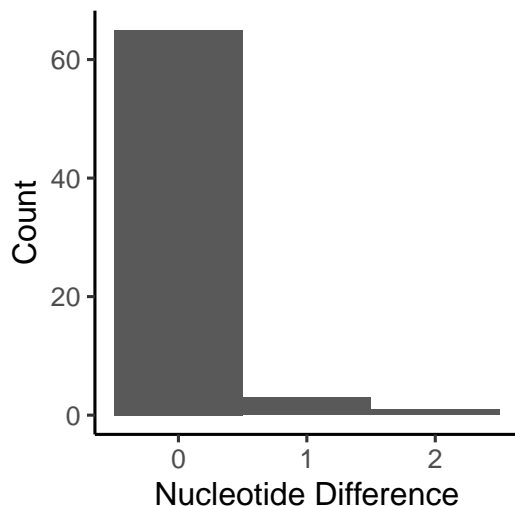
IGHV3-74*01_02

247 sequences assigned
210 (85%) exact matches, in which:
200 unique CDR3
7 unique J



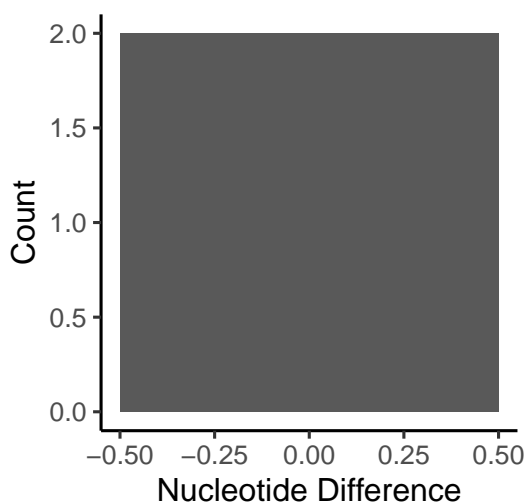
IGHV3-64D*06

69 sequences assigned
65 (94.2%) exact matches, in which:
63 unique CDR3
5 unique J



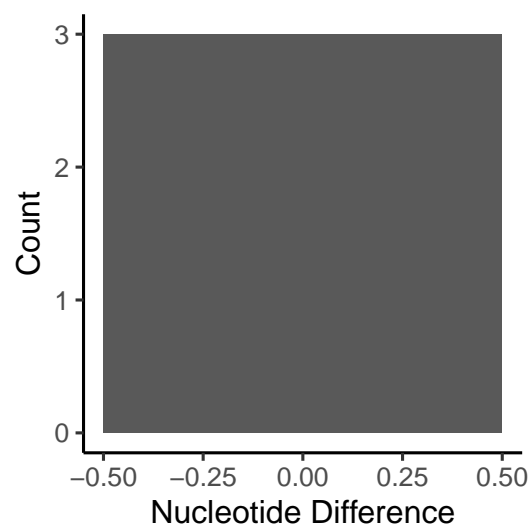
IGHV4-28*01_07

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



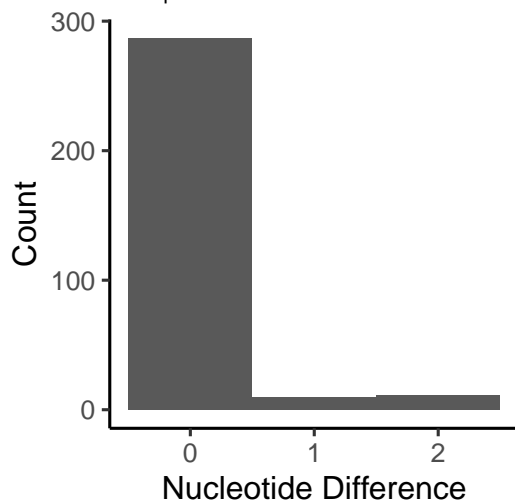
IGHV4-59*01_07

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



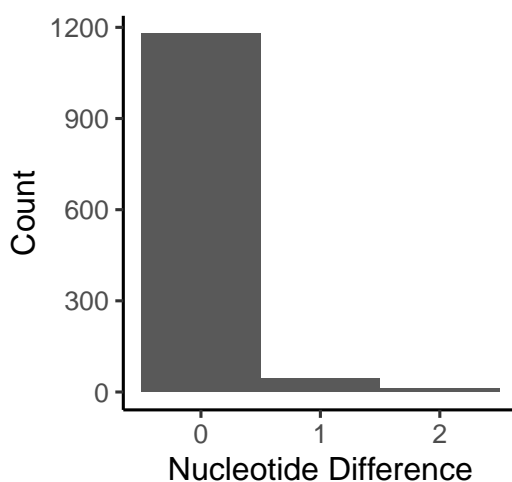
IGHV4-4*07

308 sequences assigned
287 (93.2%) exact matches, in which:
283 unique CDR3
5 unique J



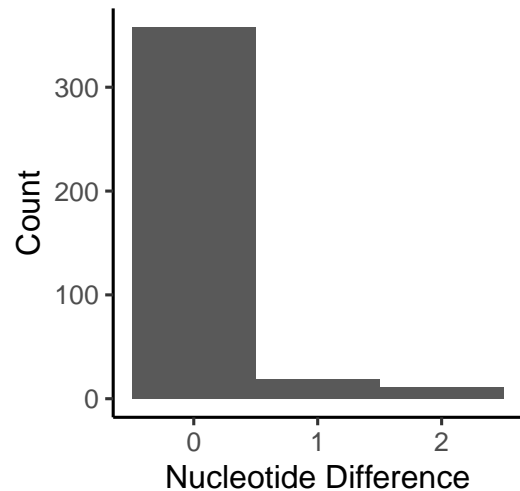
IGHV4-31*02

1235 sequences assigned
1179 (95.5%) exact matches, in which:
1156 unique CDR3
7 unique J



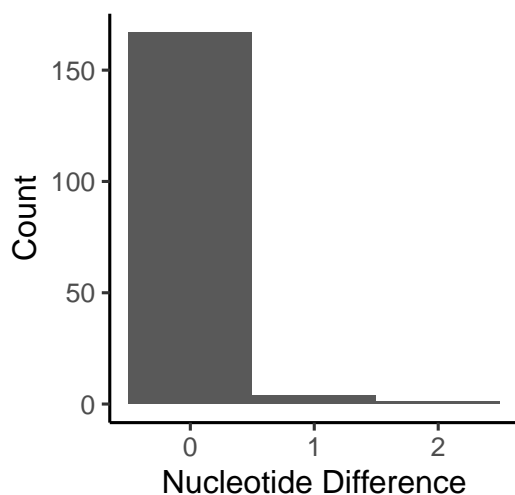
IGHV4-61*01

388 sequences assigned
358 (92.3%) exact matches, in which:
349 unique CDR3
7 unique J



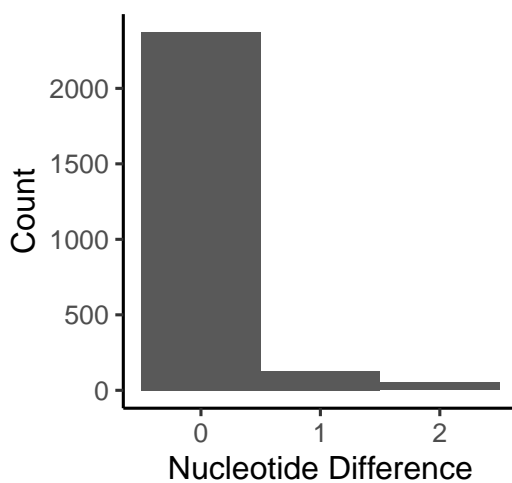
IGHV4-4*02_03

172 sequences assigned
167 (97.1%) exact matches, in which:
161 unique CDR3
6 unique J



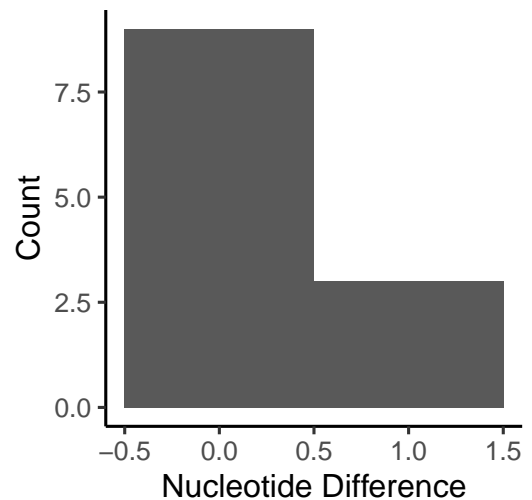
IGHV4-34*01_02

2556 sequences assigned
2373 (92.8%) exact matches, in which:
2292 unique CDR3
7 unique J



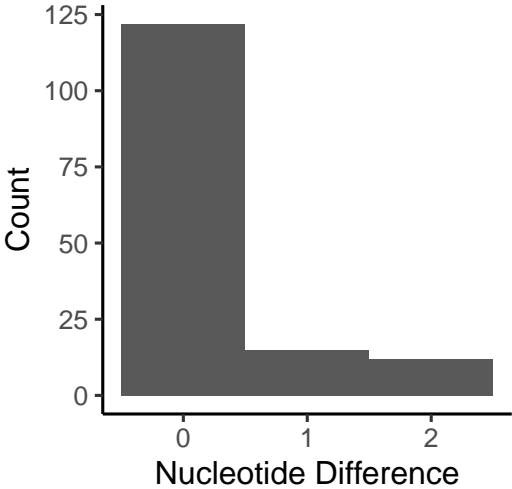
IGHV5-10-1*01_03

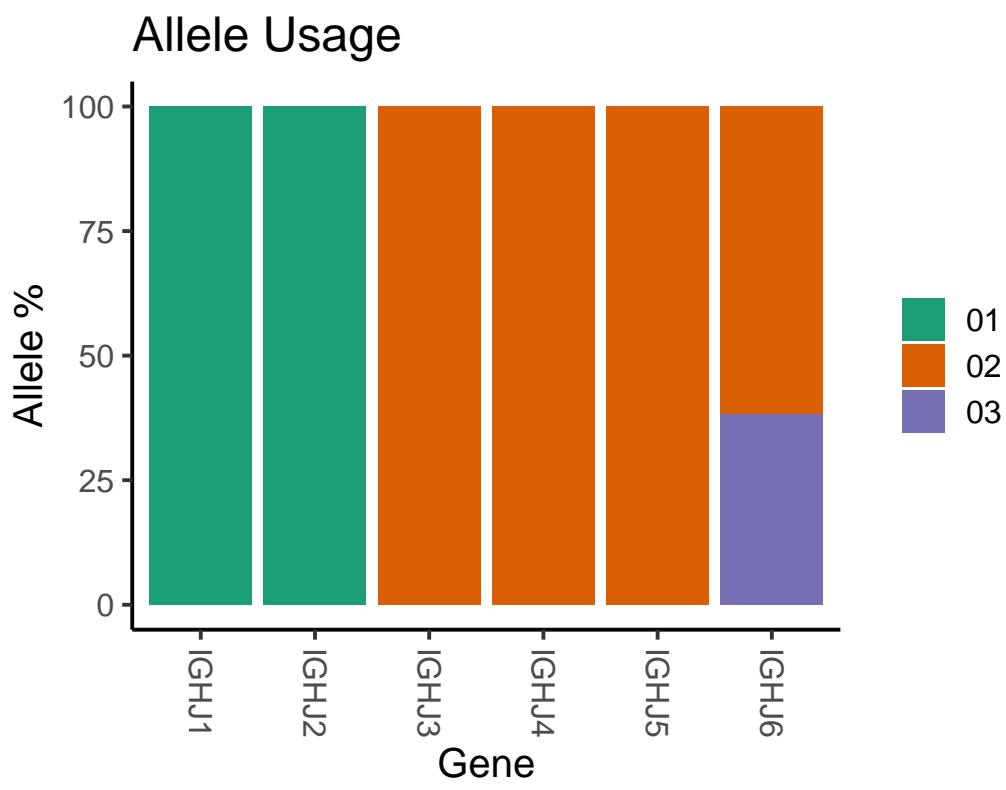
12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
4 unique J



IGHV6-1*01_02

149 sequences assigned
122 (81.9%) exact matches, in which:
122 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage

