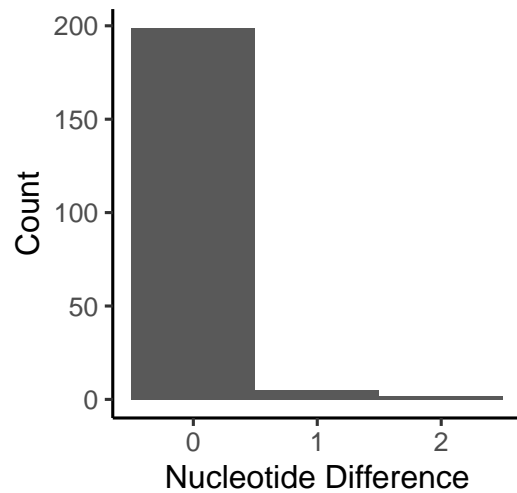


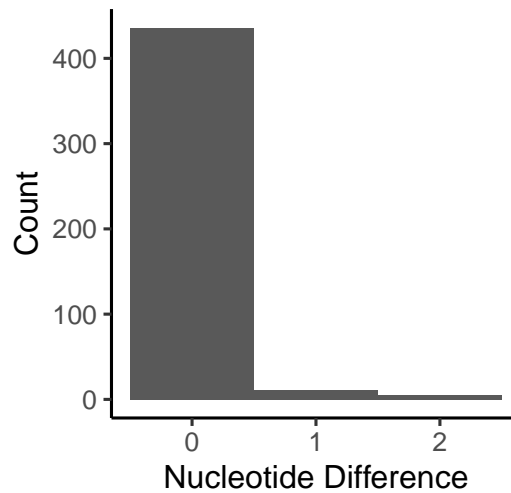
IGHV1-2*04

206 sequences assigned
199 (96.6%) exact matches, in which:
198 unique CDR3
7 unique J



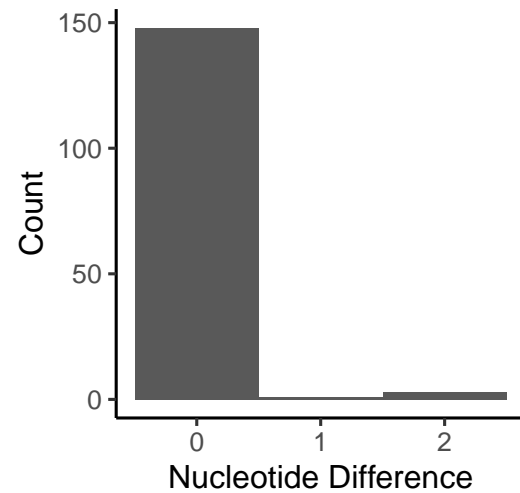
IGHV1-18*04

452 sequences assigned
436 (96.5%) exact matches, in which:
435 unique CDR3
7 unique J



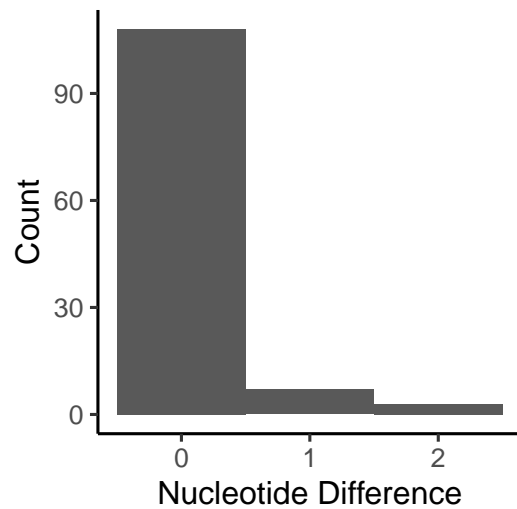
IGHV1-46*01

152 sequences assigned
148 (97.4%) exact matches, in which:
148 unique CDR3
5 unique J



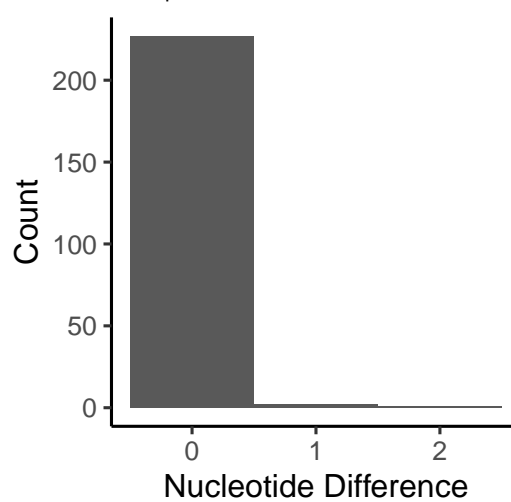
IGHV1-3*01_05

118 sequences assigned
108 (91.5%) exact matches, in which:
107 unique CDR3
6 unique J



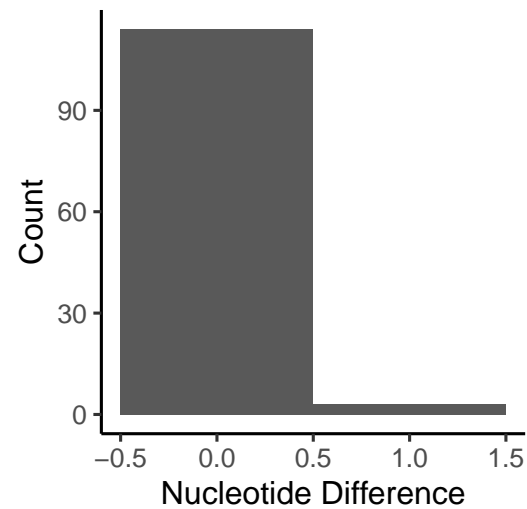
IGHV1-24*01

230 sequences assigned
227 (98.7%) exact matches, in which:
226 unique CDR3
7 unique J



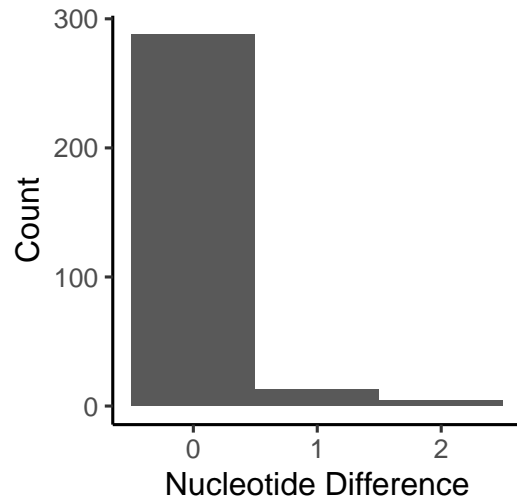
IGHV1-46*04

117 sequences assigned
114 (97.4%) exact matches, in which:
114 unique CDR3
4 unique J



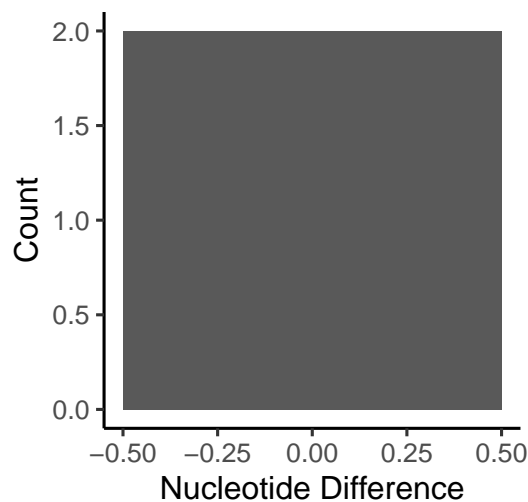
IGHV1-18*01

305 sequences assigned
288 (94.4%) exact matches, in which:
284 unique CDR3
6 unique J



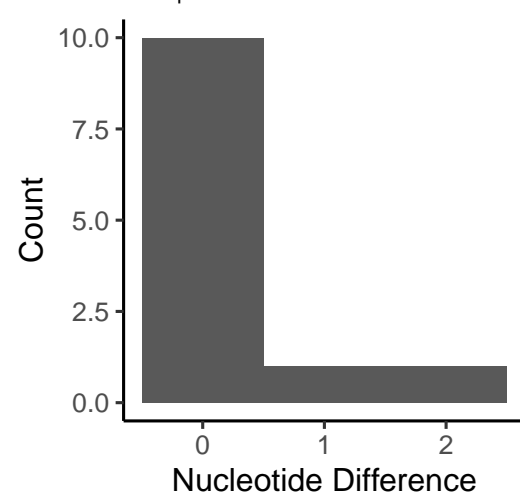
IGHV1-45*02

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



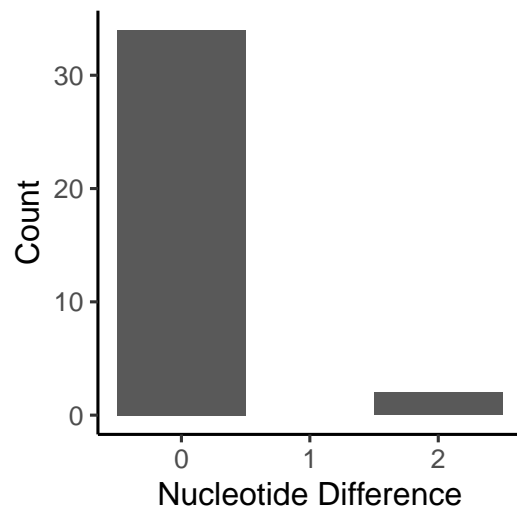
IGHV1-58*02

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
3 unique J



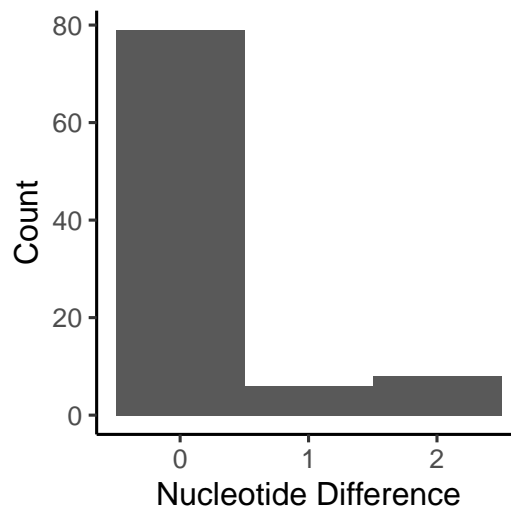
IGHV1-58*01_03

36 sequences assigned
34 (94.4%) exact matches, in which:
34 unique CDR3
5 unique J



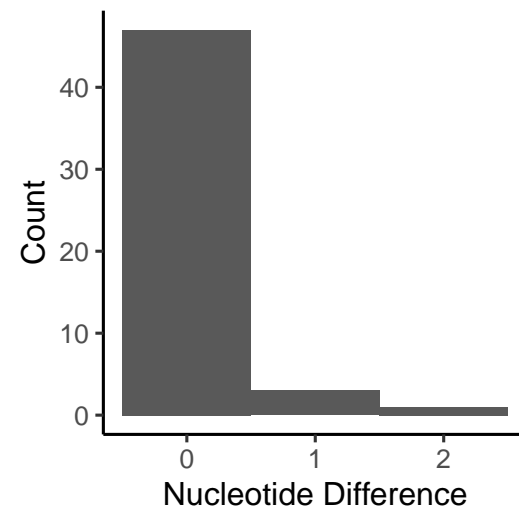
IGHV2-5*02

93 sequences assigned
79 (84.9%) exact matches, in which:
79 unique CDR3
7 unique J



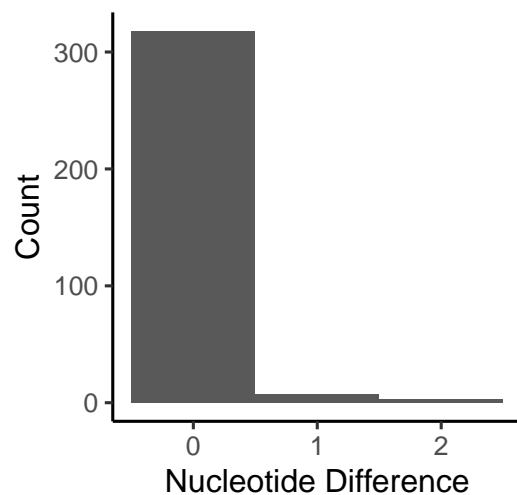
IGHV2-70*01

51 sequences assigned
47 (92.2%) exact matches, in which:
47 unique CDR3
5 unique J



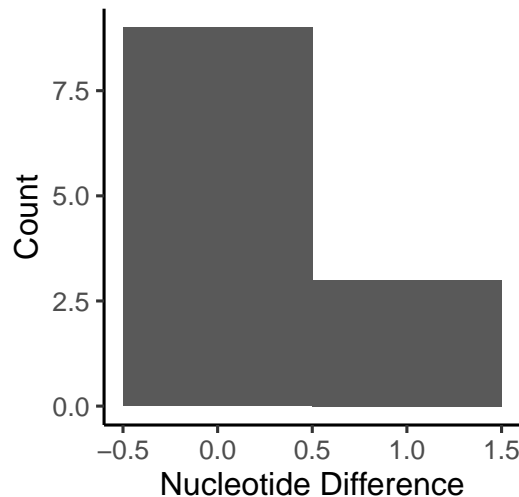
IGHV1-69*10

328 sequences assigned
318 (97%) exact matches, in which:
318 unique CDR3
7 unique J



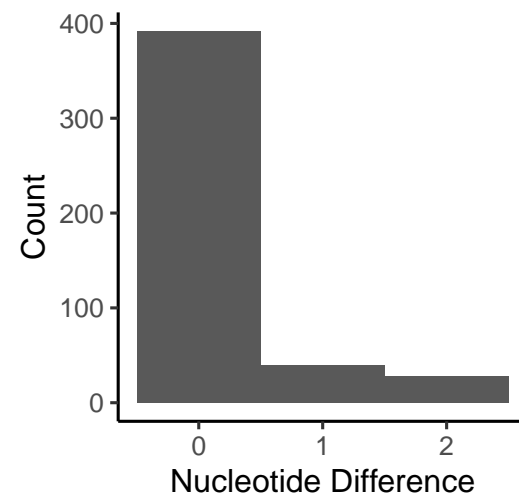
IGHV2-26*01

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



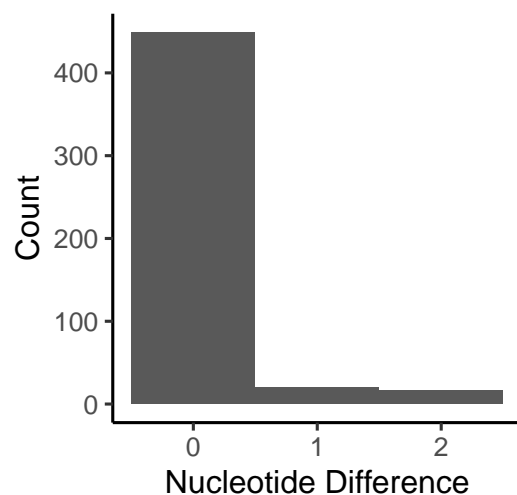
IGHV3-7*03

460 sequences assigned
392 (85.2%) exact matches, in which:
388 unique CDR3
7 unique J



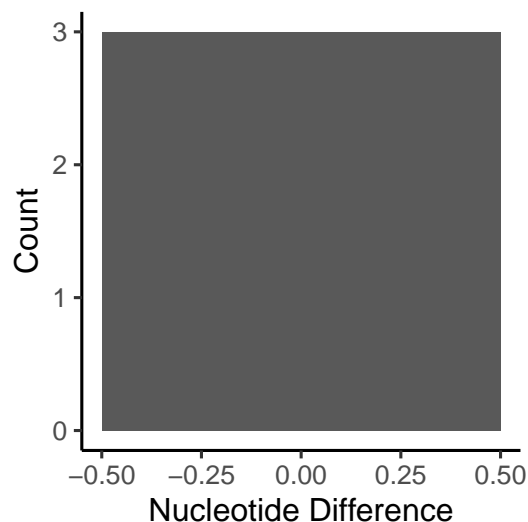
IGHV1-69*01_12_13

485 sequences assigned
449 (92.6%) exact matches, in which:
449 unique CDR3
7 unique J



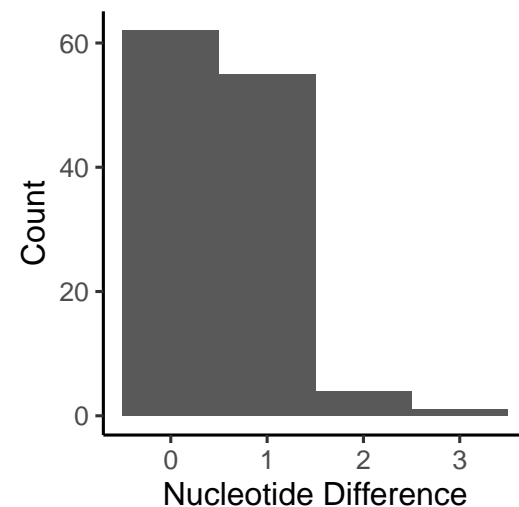
IGHV2-26*04

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



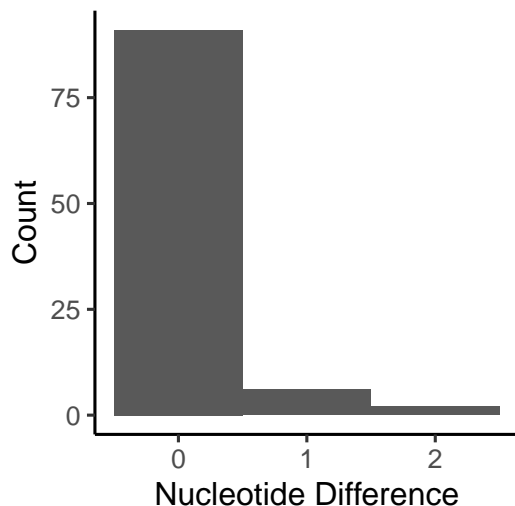
IGHV3-11*06

122 sequences assigned
62 (50.8%) exact matches, in which:
62 unique CDR3
5 unique J



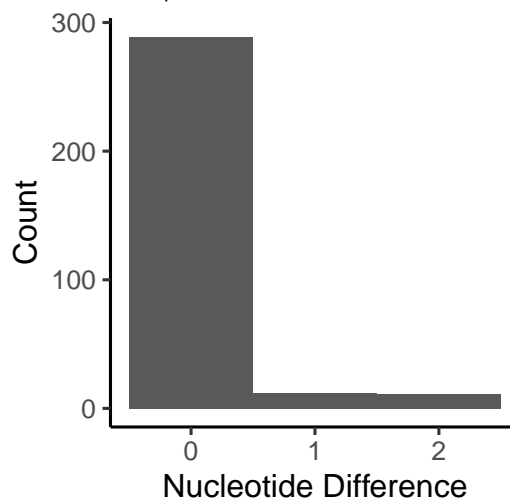
IGHV3-11*03_05

99 sequences assigned
91 (91.9%) exact matches, in which:
91 unique CDR3
6 unique J



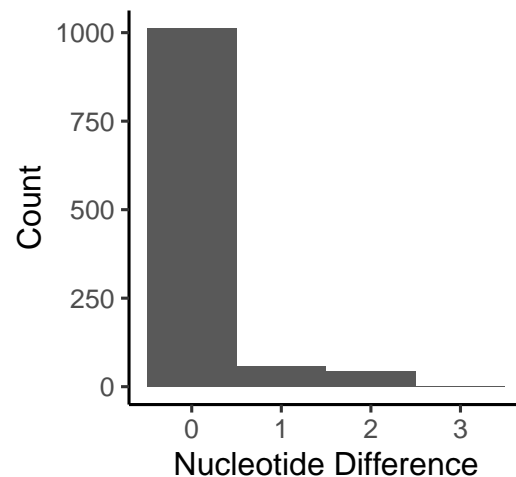
IGHV3-15*01_02

312 sequences assigned
289 (92.6%) exact matches, in which:
288 unique CDR3
7 unique J



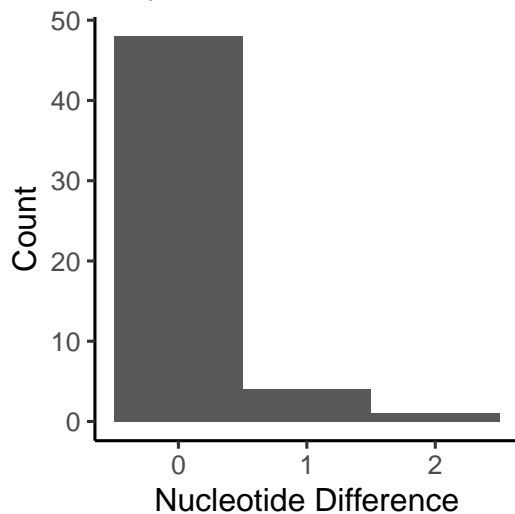
IGHV3-23*01_04

1116 sequences assigned
1012 (90.7%) exact matches, in which:
998 unique CDR3
7 unique J



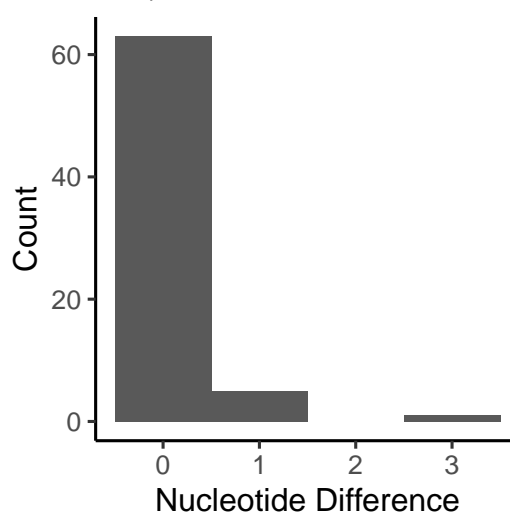
IGHV3-13*04

53 sequences assigned
48 (90.6%) exact matches, in which:
47 unique CDR3
5 unique J



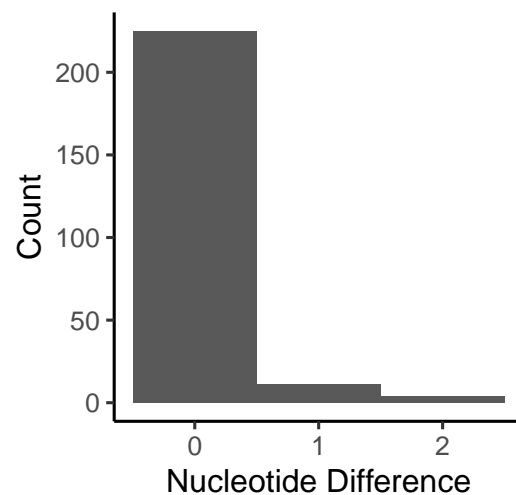
IGHV3-20*03_04

69 sequences assigned
63 (91.3%) exact matches, in which:
63 unique CDR3
6 unique J



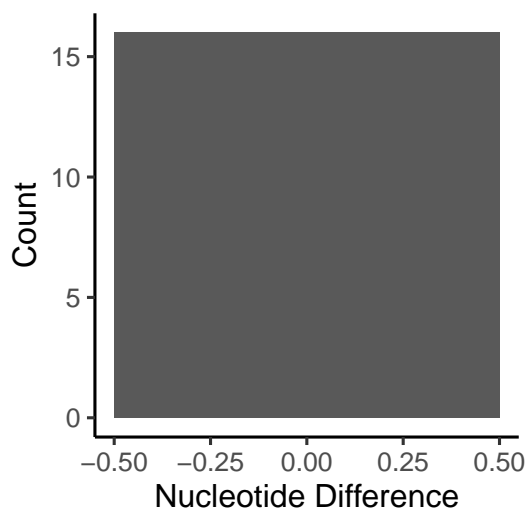
IGHV3-30*01

240 sequences assigned
225 (93.8%) exact matches, in which:
224 unique CDR3
6 unique J



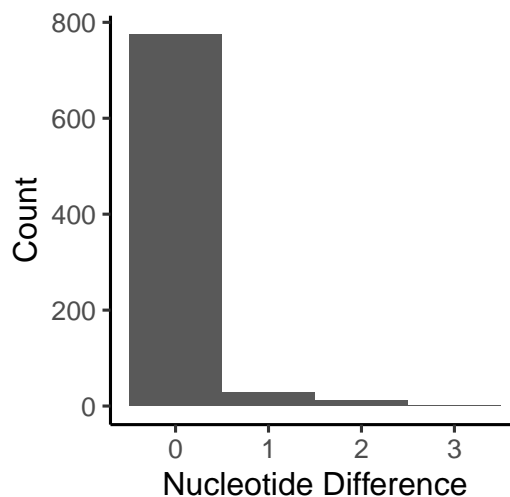
IGHV3-13*05

16 sequences assigned
16 (100%) exact matches, in which:
16 unique CDR3
5 unique J



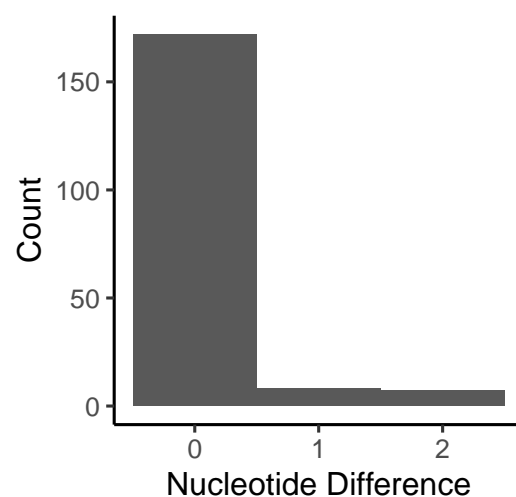
IGHV3-21*01_02

816 sequences assigned
775 (95%) exact matches, in which:
765 unique CDR3
7 unique J



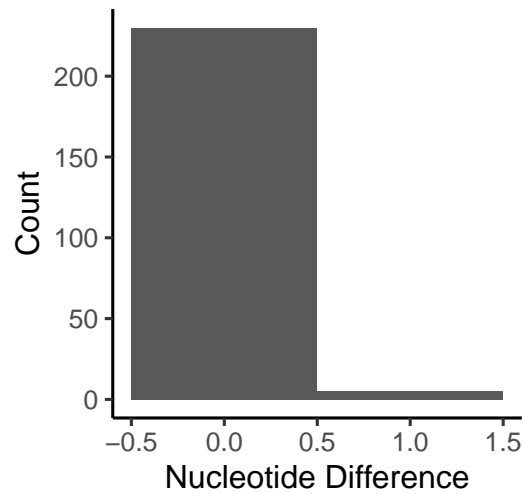
IGHV3-33*01

187 sequences assigned
172 (92%) exact matches, in which:
169 unique CDR3
6 unique J



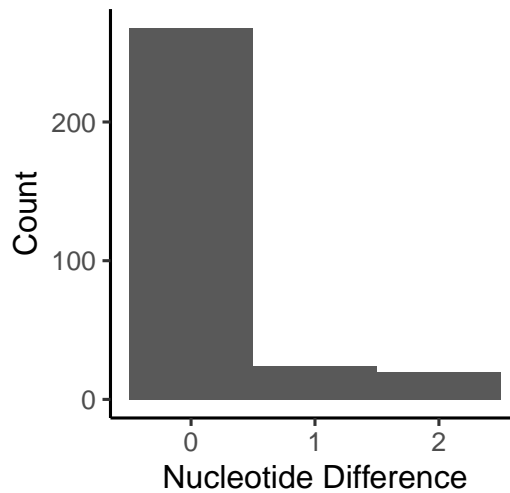
IGHV3–33*08

235 sequences assigned
230 (97.9%) exact matches, in which:
230 unique CDR3
6 unique J



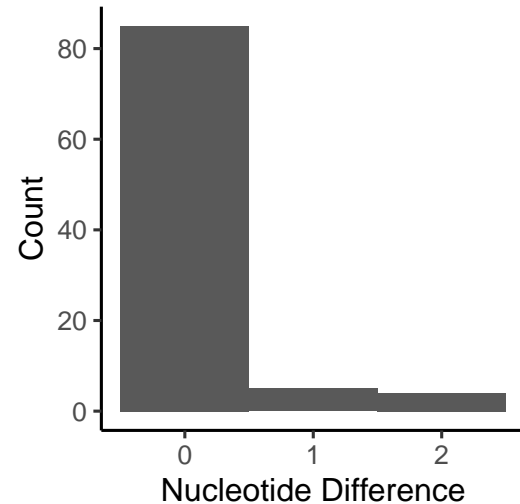
IGHV3–48*02

312 sequences assigned
268 (85.9%) exact matches, in which:
262 unique CDR3
6 unique J



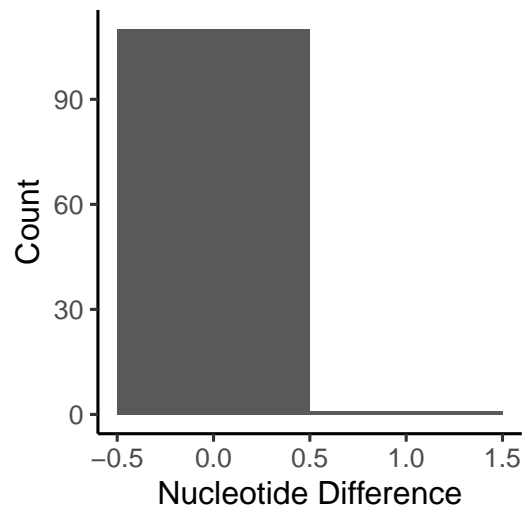
IGHV3–53*04

94 sequences assigned
85 (90.4%) exact matches, in which:
85 unique CDR3
5 unique J



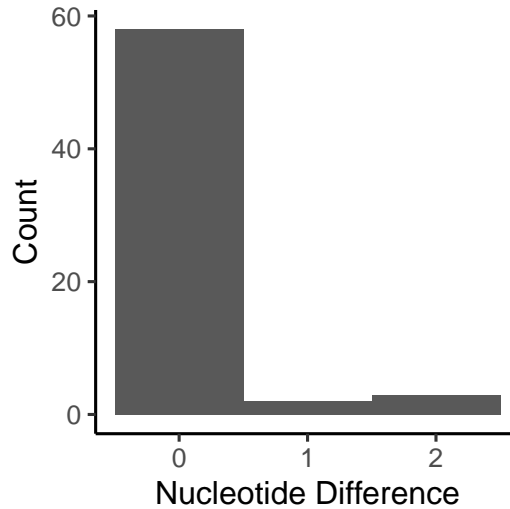
IGHV3–43*01

111 sequences assigned
110 (99.1%) exact matches, in which:
108 unique CDR3
6 unique J



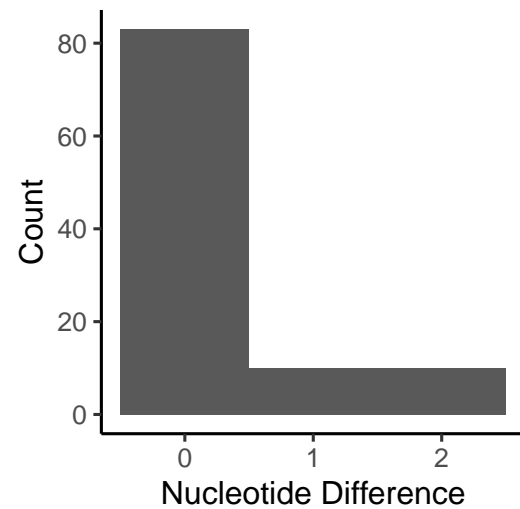
IGHV3–49*04

63 sequences assigned
58 (92.1%) exact matches, in which:
58 unique CDR3
5 unique J



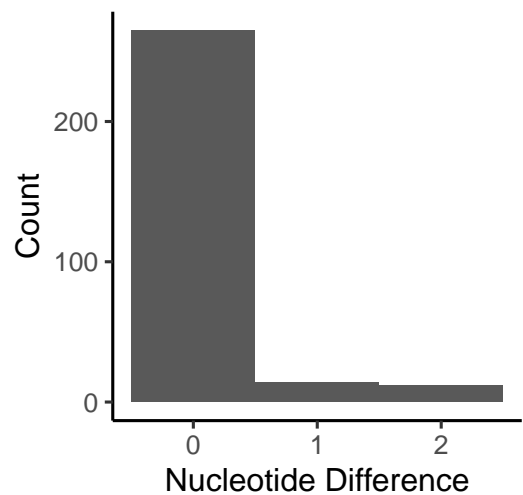
IGHV3–53*01_02

103 sequences assigned
83 (80.6%) exact matches, in which:
83 unique CDR3
6 unique J



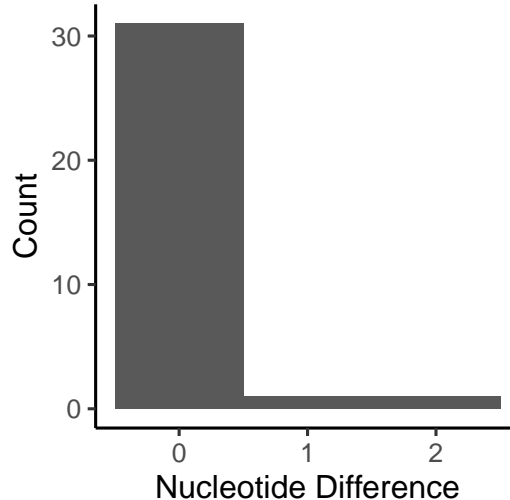
IGHV3–48*01

291 sequences assigned
265 (91.1%) exact matches, in which:
261 unique CDR3
6 unique J



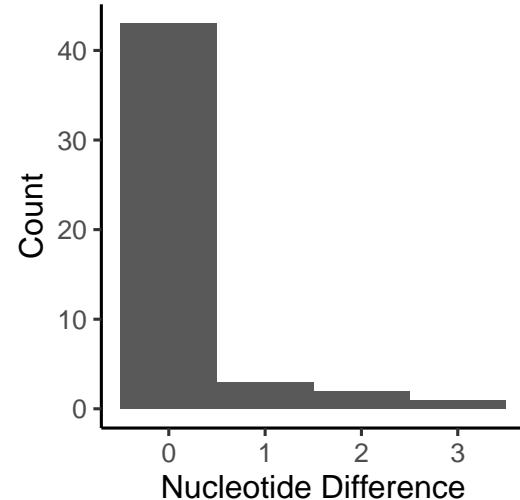
IGHV3–49*03_05

33 sequences assigned
31 (93.9%) exact matches, in which:
31 unique CDR3
5 unique J



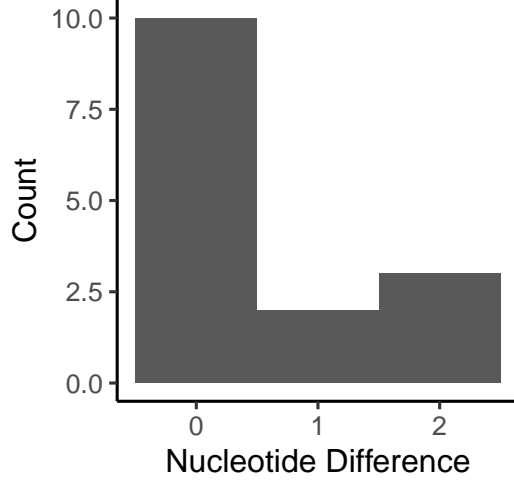
IGHV3–64*01

49 sequences assigned
43 (87.8%) exact matches, in which:
43 unique CDR3
6 unique J



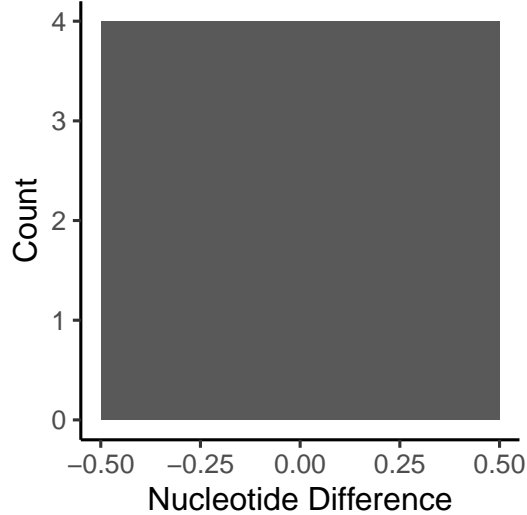
IGHV3-72*01

15 sequences assigned
10 (66.7%) exact matches, in which:
10 unique CDR3
4 unique J



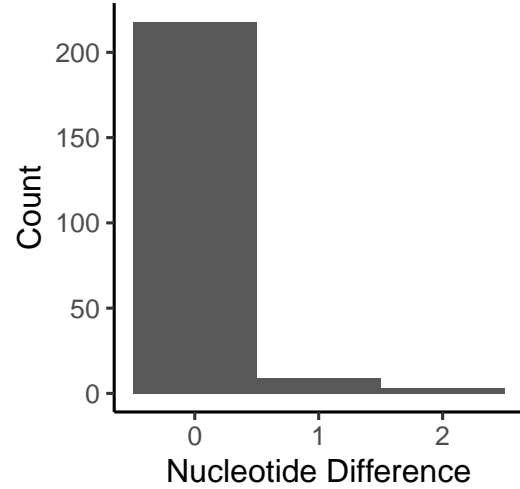
IGHV3-43D*04

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



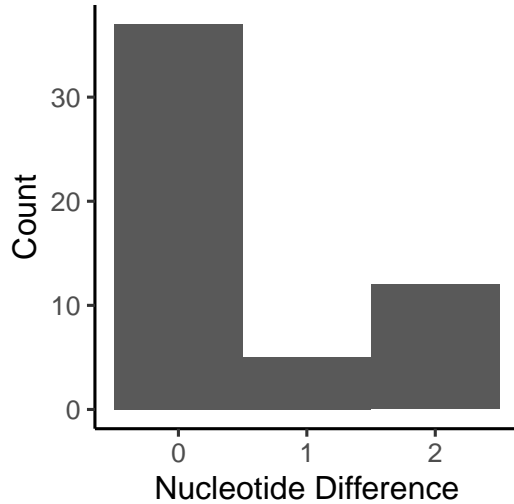
IGHV4-4*02_03

230 sequences assigned
218 (94.8%) exact matches, in which:
216 unique CDR3
7 unique J



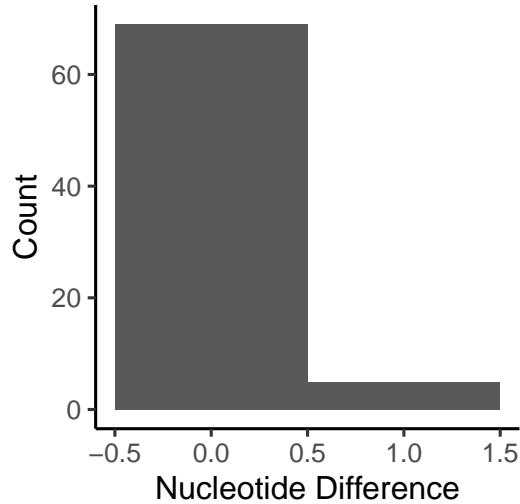
IGHV3-73*01_02

54 sequences assigned
37 (68.5%) exact matches, in which:
37 unique CDR3
6 unique J



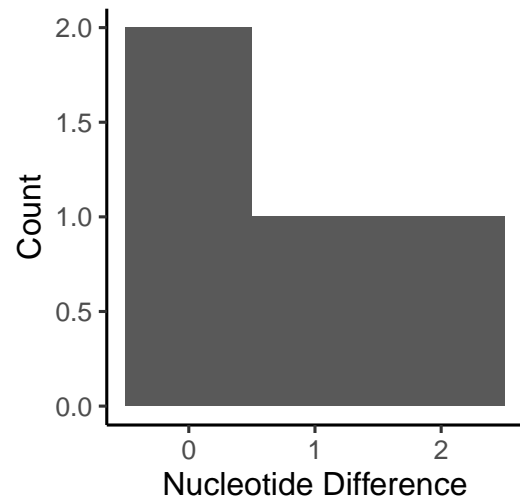
IGHV3-64D*06

74 sequences assigned
69 (93.2%) exact matches, in which:
69 unique CDR3
6 unique J



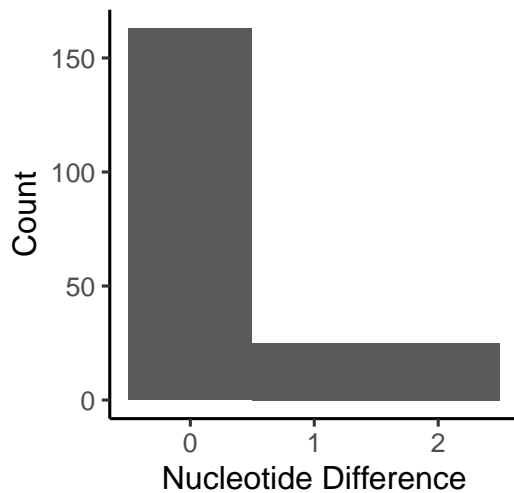
IGHV4-28*01_07

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



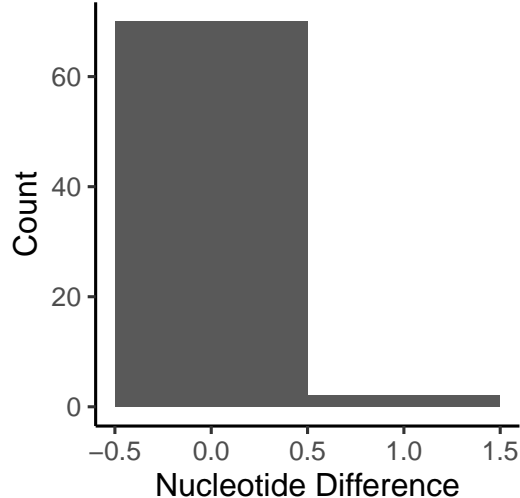
IGHV3-74*01_02

213 sequences assigned
163 (76.5%) exact matches, in which:
158 unique CDR3
6 unique J



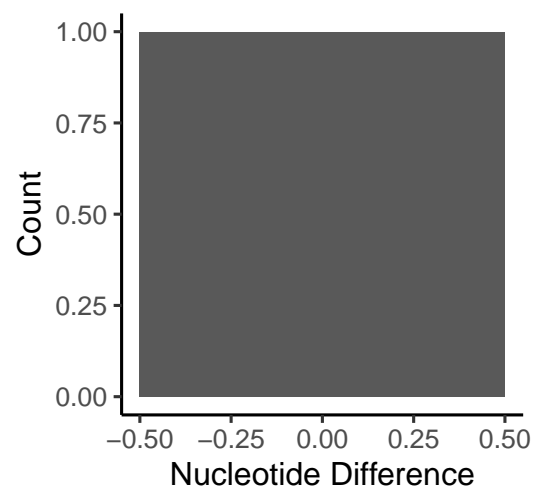
IGHV3-64D*09

72 sequences assigned
70 (97.2%) exact matches, in which:
68 unique CDR3
5 unique J



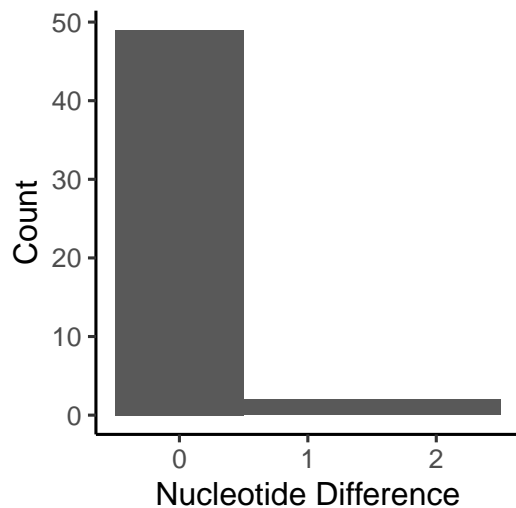
IGHV4-28*02_05

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



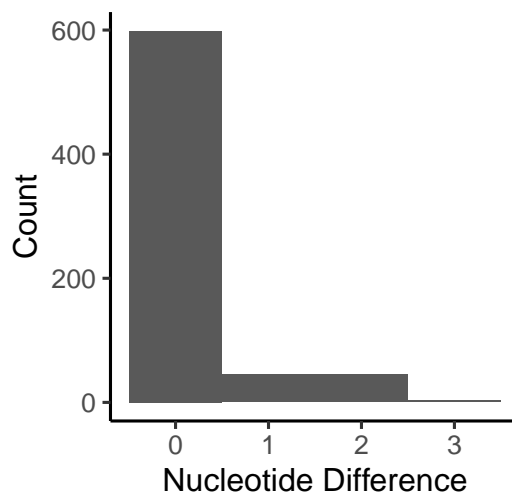
IGHV4-31*01

53 sequences assigned
49 (92.5%) exact matches, in which:
48 unique CDR3
5 unique J



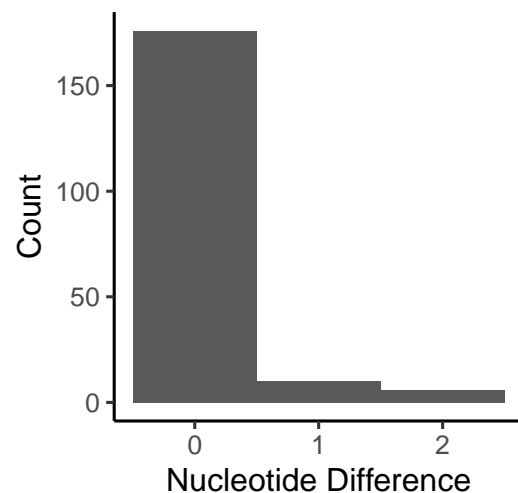
IGHV4-59*08

692 sequences assigned
599 (86.6%) exact matches, in which:
591 unique CDR3
7 unique J



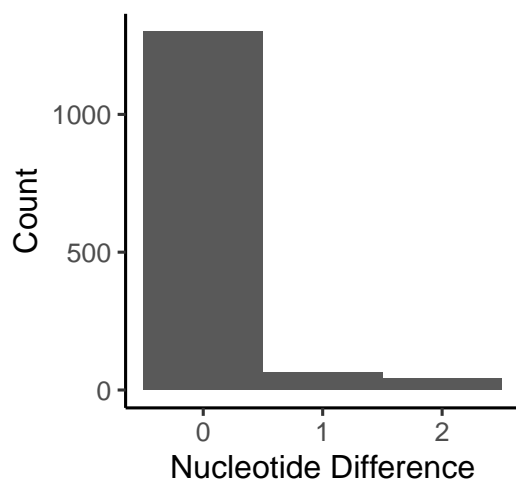
IGHV6-1*01_02

192 sequences assigned
176 (91.7%) exact matches, in which:
174 unique CDR3
7 unique J



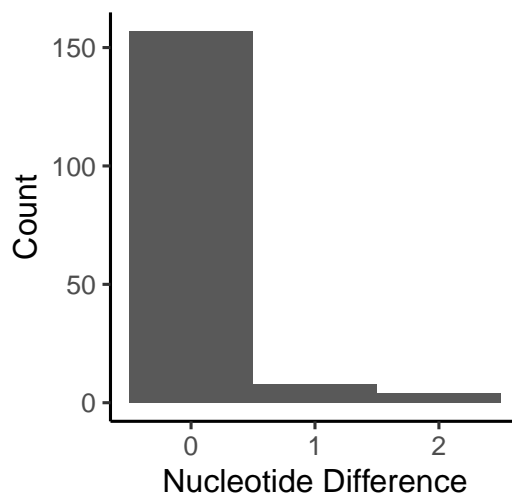
IGHV4-34*01_02

1404 sequences assigned
1300 (92.6%) exact matches, in which:
1286 unique CDR3
7 unique J



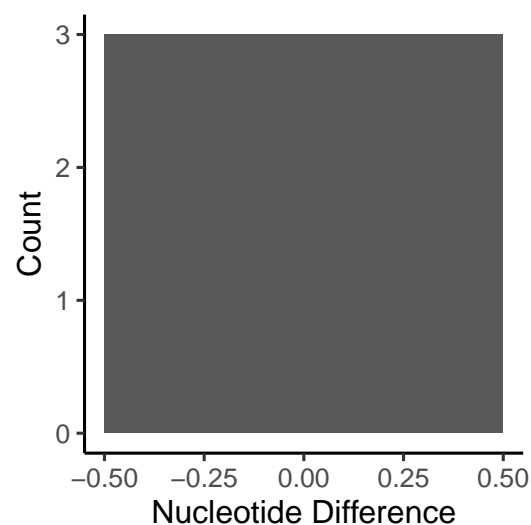
IGHV4-61*01

169 sequences assigned
157 (92.9%) exact matches, in which:
156 unique CDR3
6 unique J



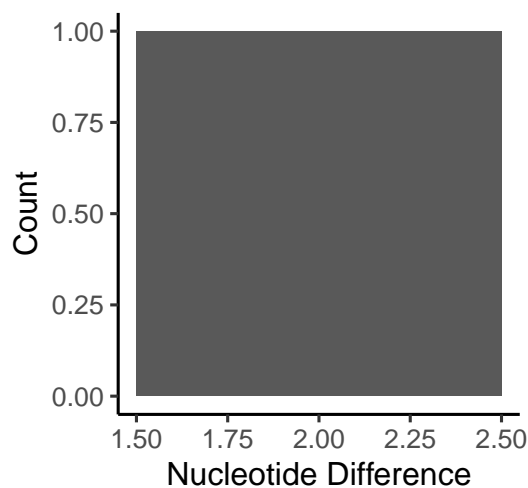
IGHV7-4-1*01

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



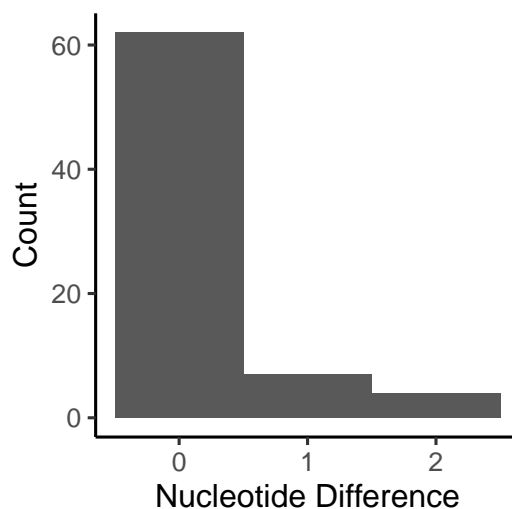
IGHV4-39*02

1 sequences assigned
No exact matches.

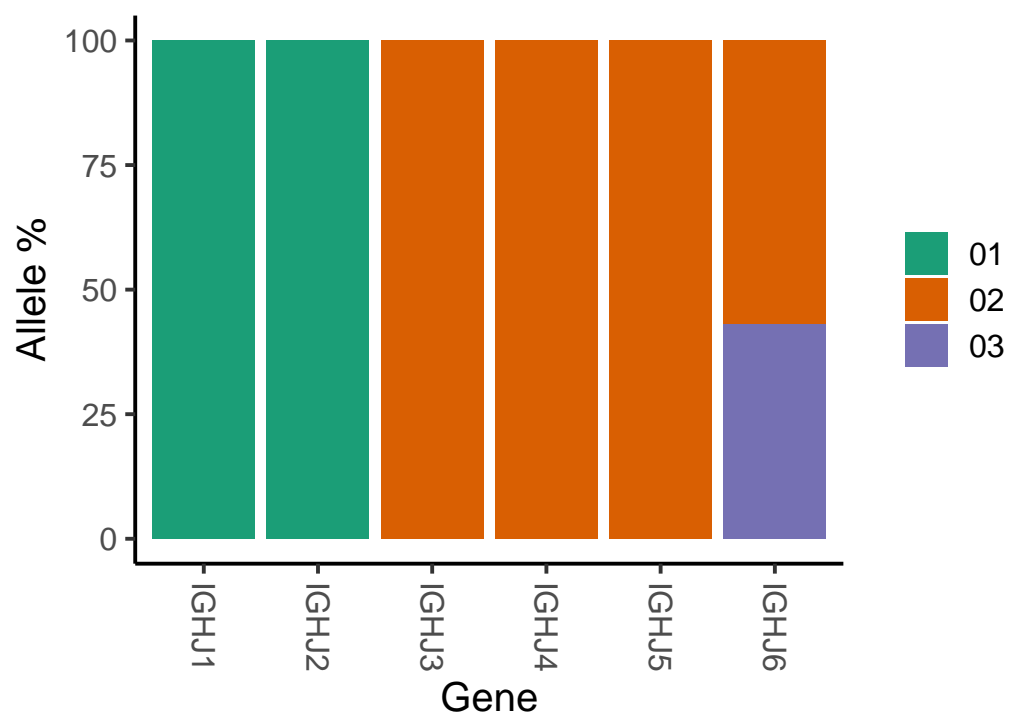


IGHV5-10-1*01_03

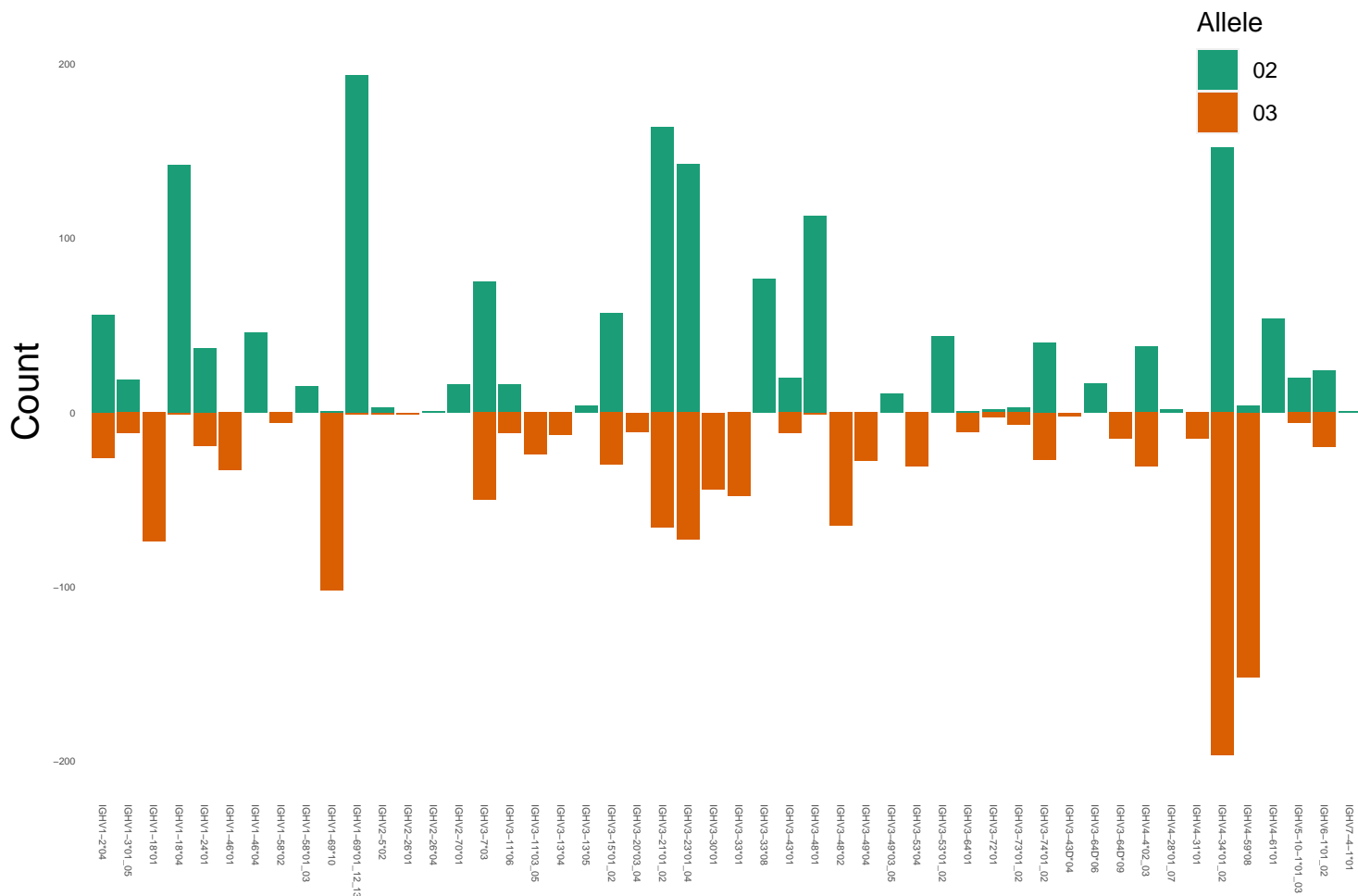
73 sequences assigned
62 (84.9%) exact matches, in which:
62 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.