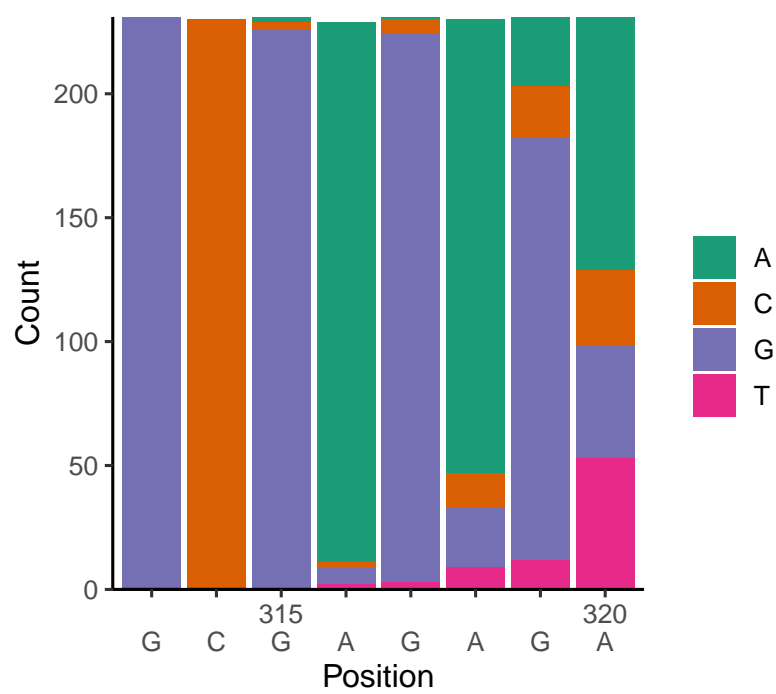
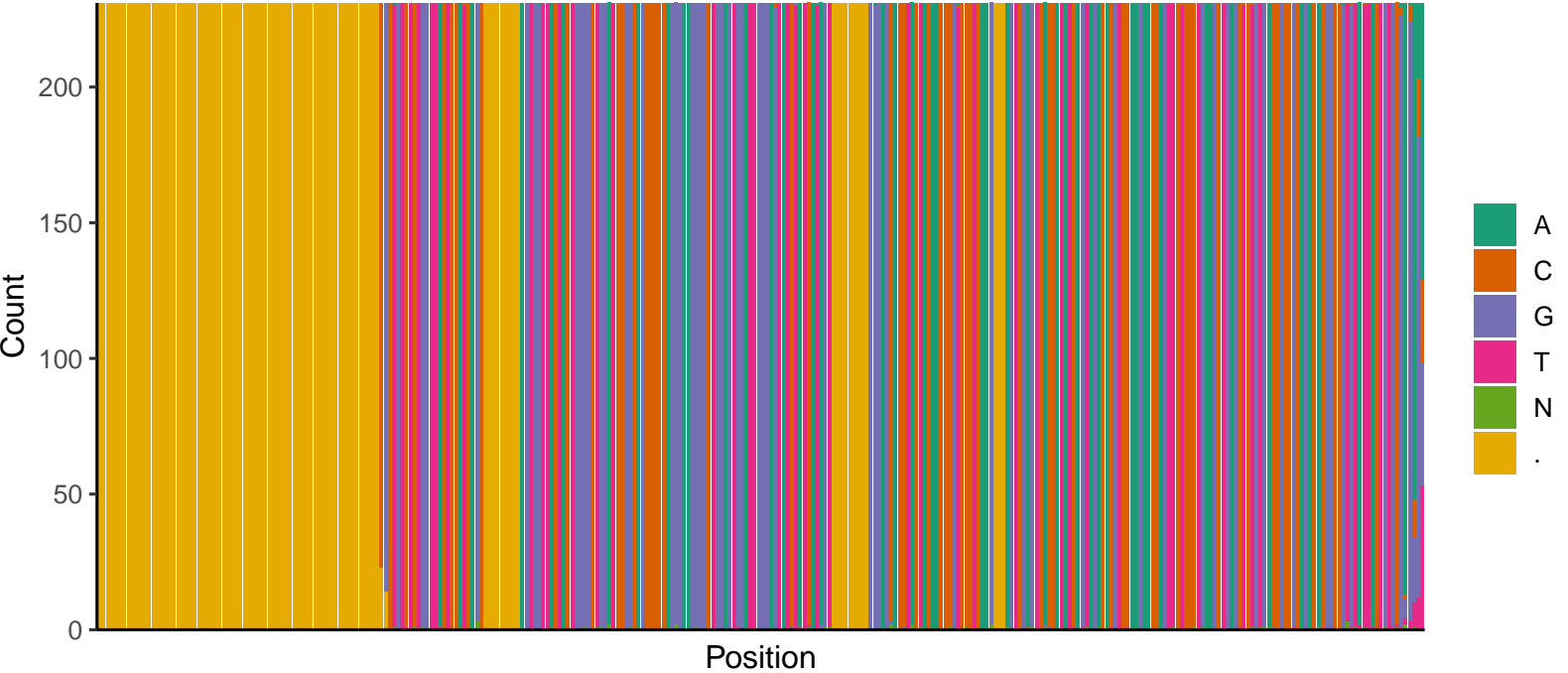


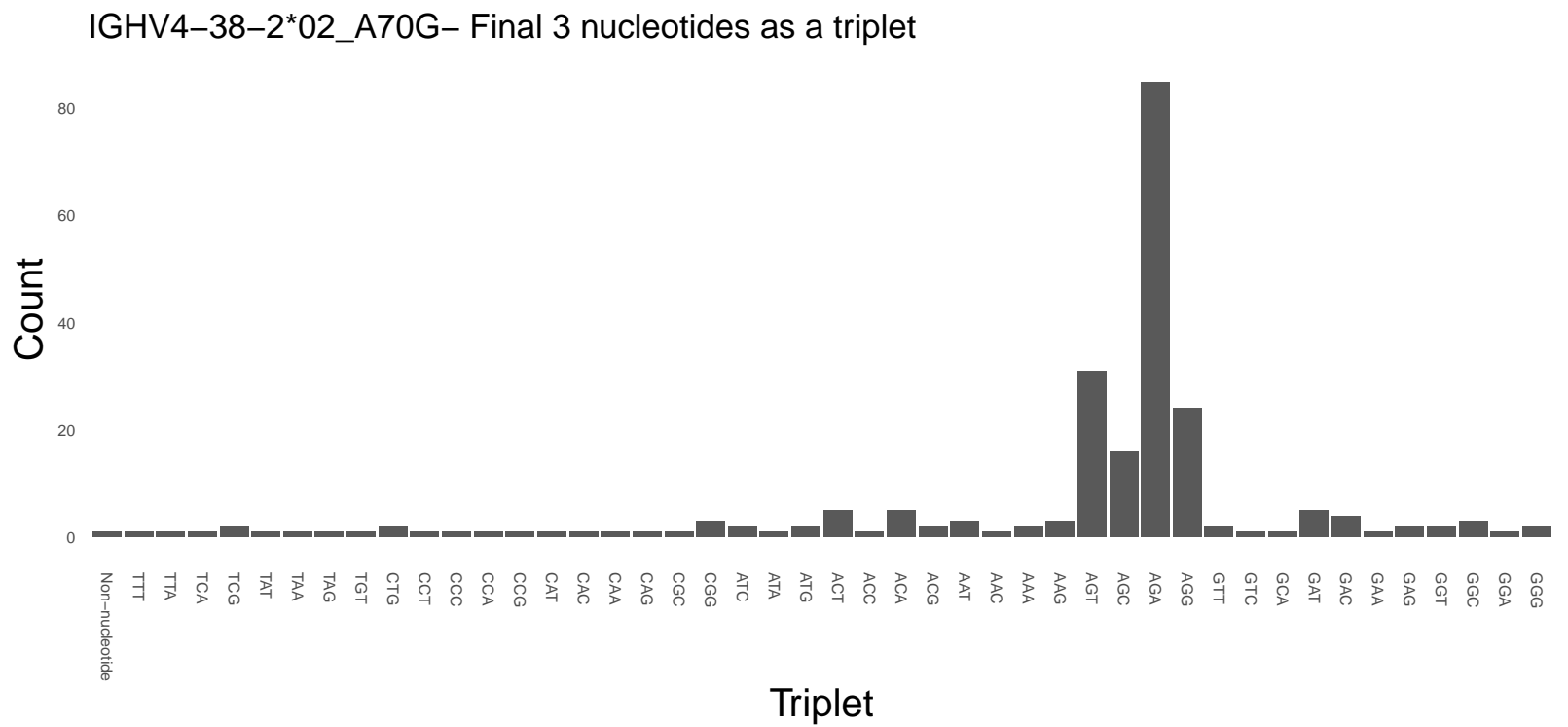
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

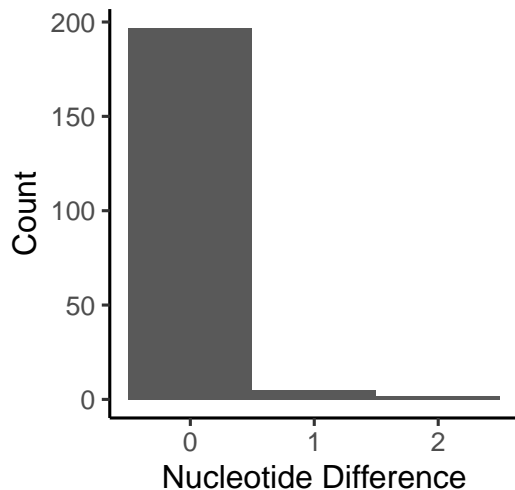


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



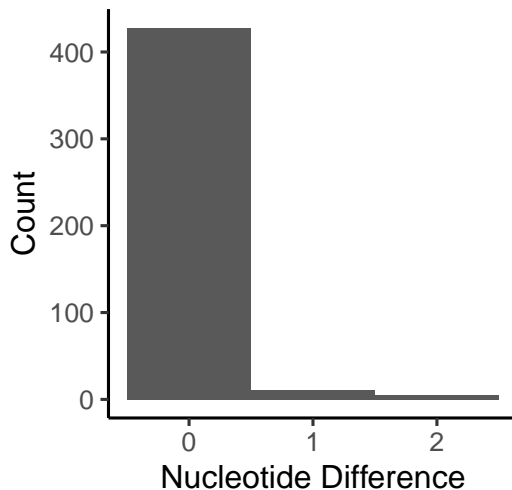
IGHV1-2*04

204 sequences assigned
197 (96.6%) exact matches, in which:
197 unique CDR3
7 unique J



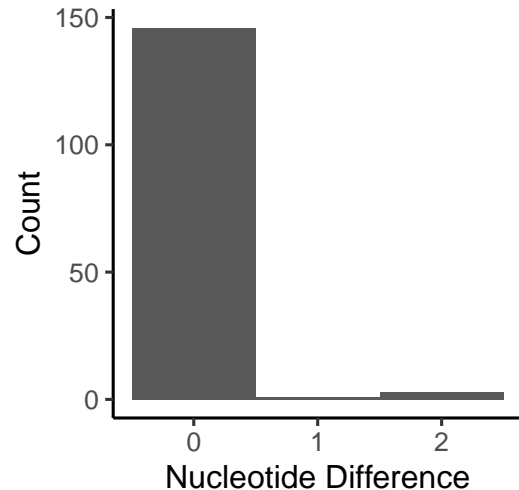
IGHV1-18*04

444 sequences assigned
428 (96.4%) exact matches, in which:
428 unique CDR3
7 unique J



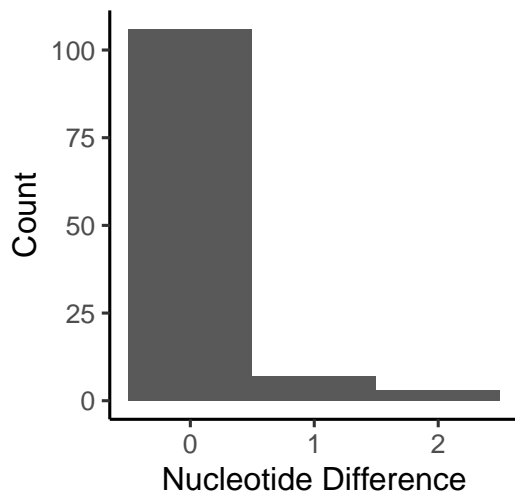
IGHV1-46*01

150 sequences assigned
146 (97.3%) exact matches, in which:
146 unique CDR3
5 unique J



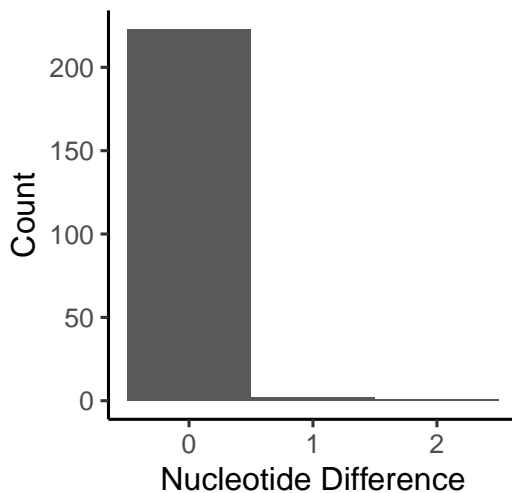
IGHV1-3*01_05

116 sequences assigned
106 (91.4%) exact matches, in which:
106 unique CDR3
6 unique J



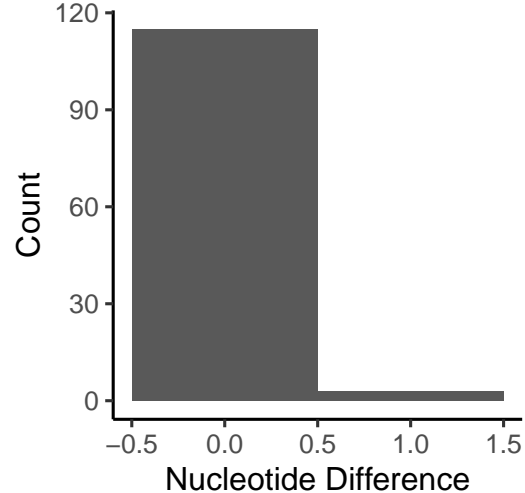
IGHV1-24*01

226 sequences assigned
223 (98.7%) exact matches, in which:
223 unique CDR3
7 unique J



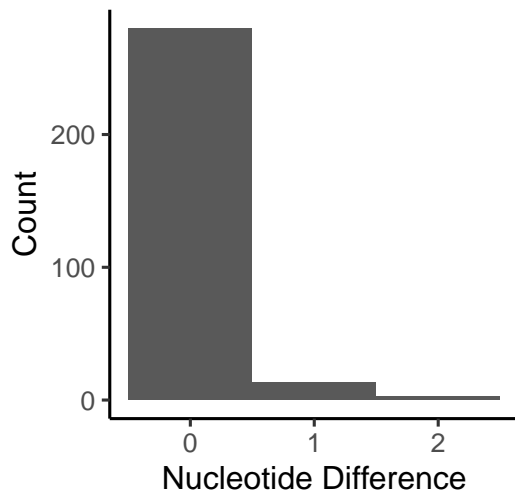
IGHV1-46*04

118 sequences assigned
115 (97.5%) exact matches, in which:
115 unique CDR3
4 unique J



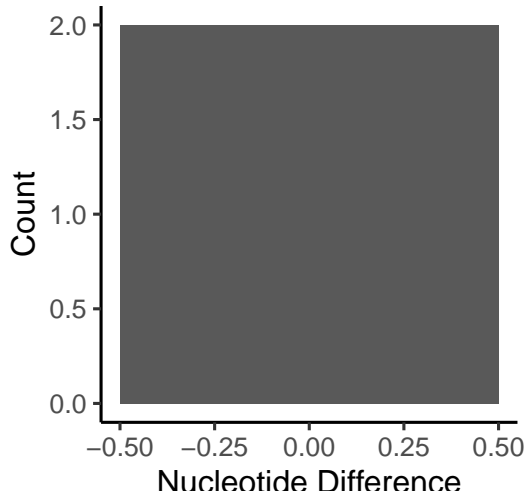
IGHV1-18*01

296 sequences assigned
280 (94.6%) exact matches, in which:
279 unique CDR3
6 unique J



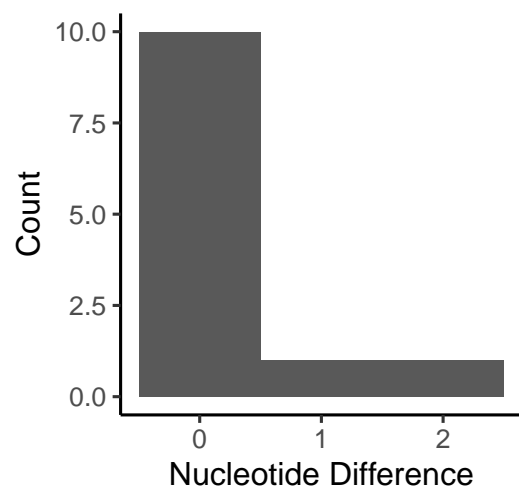
IGHV1-45*02

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



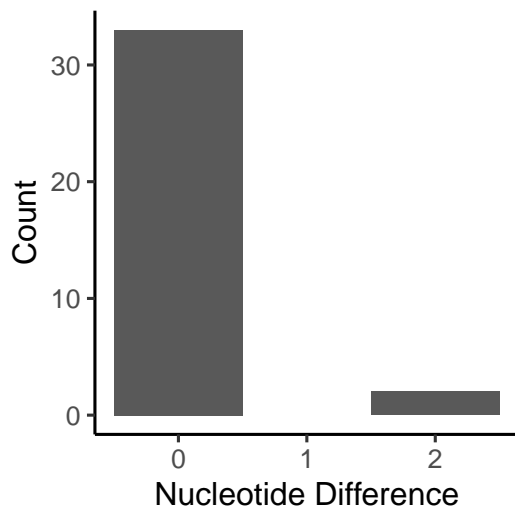
IGHV1-58*02

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



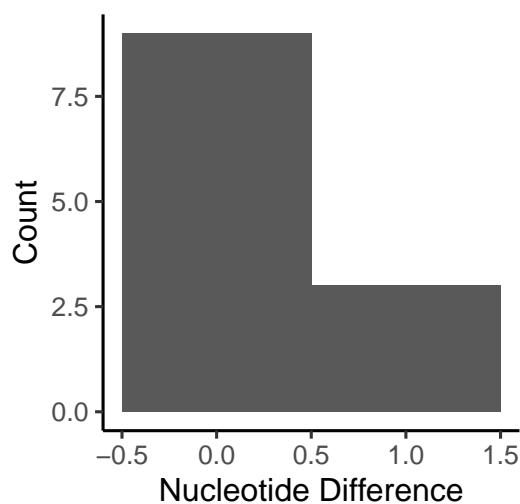
IGHV1-58*01_03

35 sequences assigned
33 (94.3%) exact matches, in which:
33 unique CDR3
5 unique J



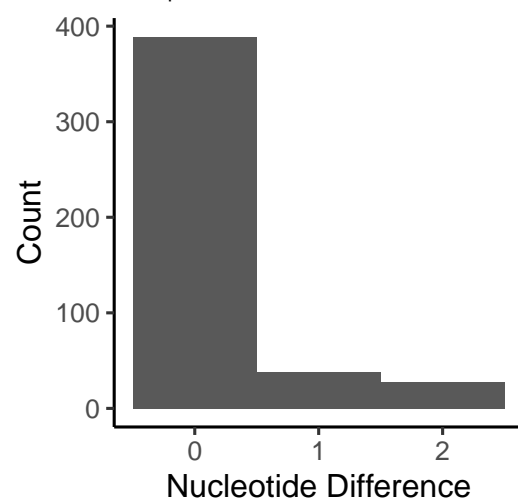
IGHV2-26*01

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



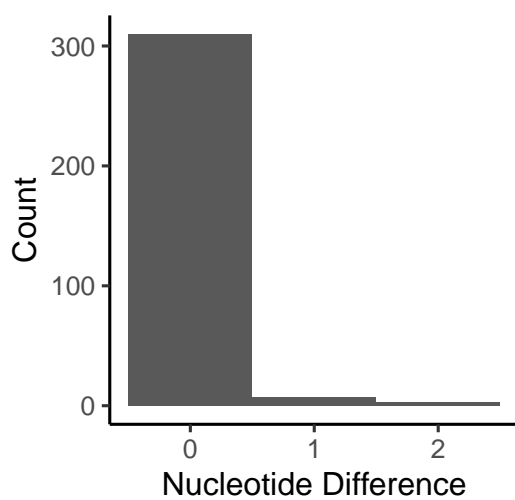
IGHV3-7*03

455 sequences assigned
389 (85.5%) exact matches, in which:
385 unique CDR3
7 unique J



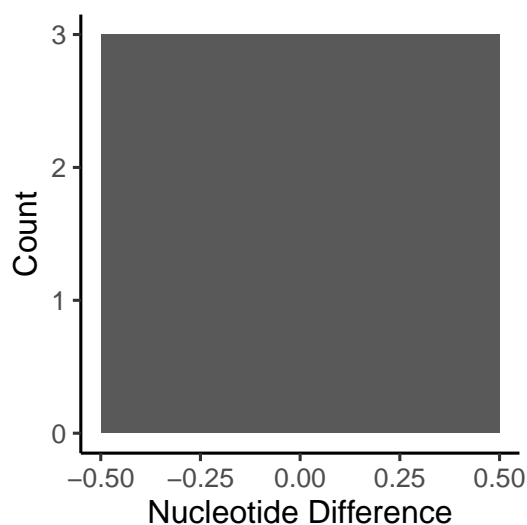
IGHV1-69*10

320 sequences assigned
310 (96.9%) exact matches, in which:
310 unique CDR3
7 unique J



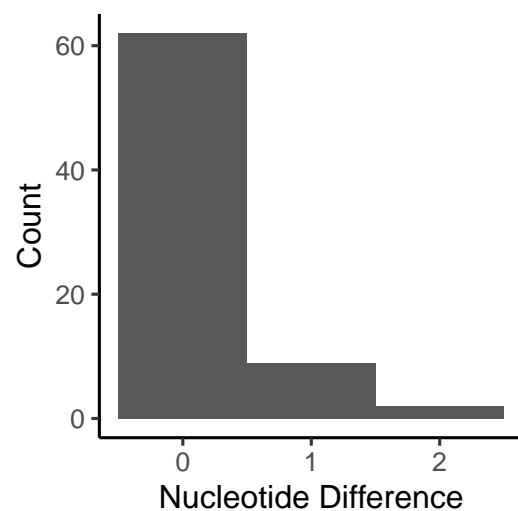
IGHV2-26*02

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



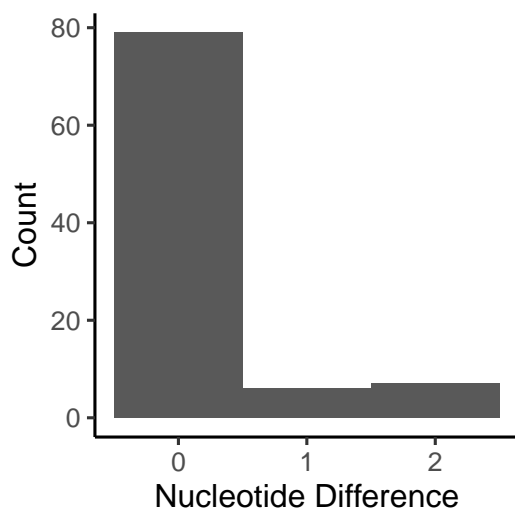
IGHV3-11*06

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



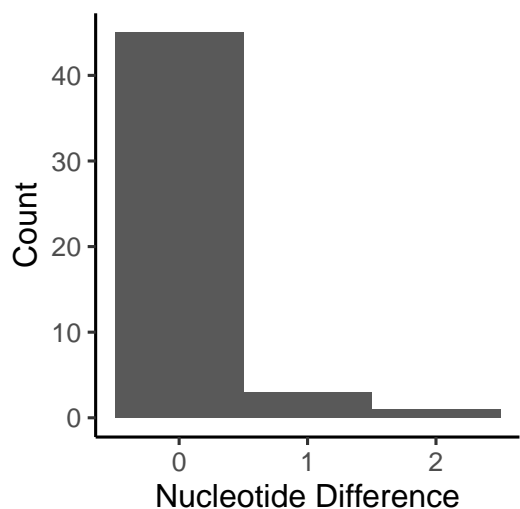
IGHV2-5*02

92 sequences assigned
79 (85.9%) exact matches, in which:
79 unique CDR3
7 unique J



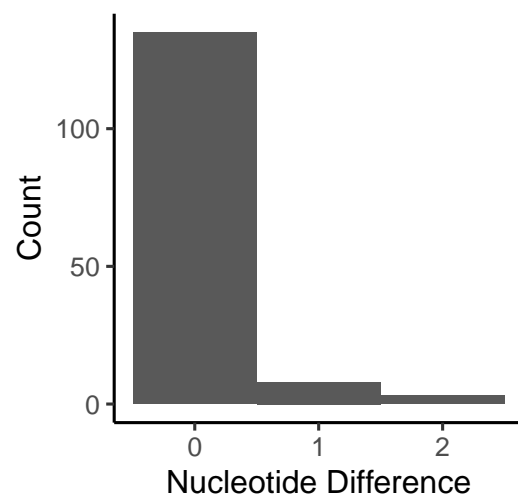
IGHV2-70*01

49 sequences assigned
45 (91.8%) exact matches, in which:
45 unique CDR3
5 unique J



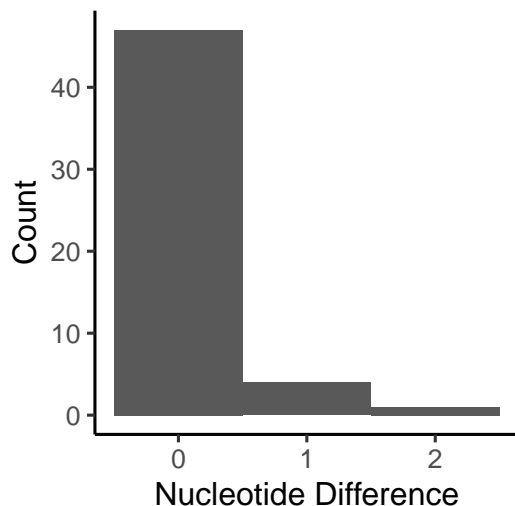
IGHV3-11*03_05

146 sequences assigned
135 (92.5%) exact matches, in which:
135 unique CDR3
6 unique J



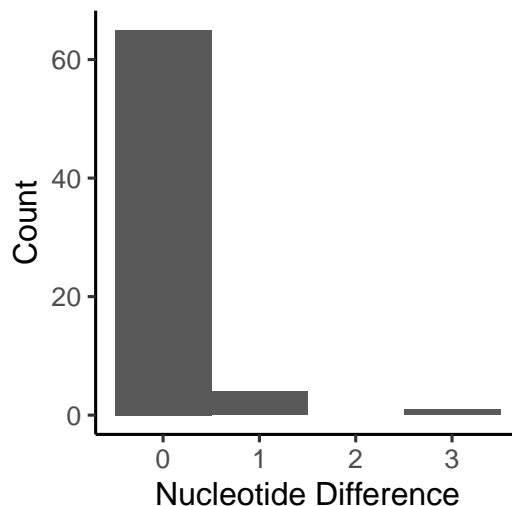
IGHV3-13*04

52 sequences assigned
47 (90.4%) exact matches, in which:
47 unique CDR3
5 unique J



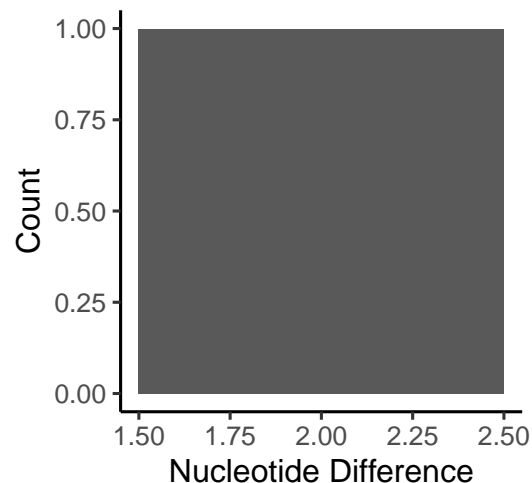
IGHV3-20*03_04

70 sequences assigned
65 (92.9%) exact matches, in which:
65 unique CDR3
6 unique J



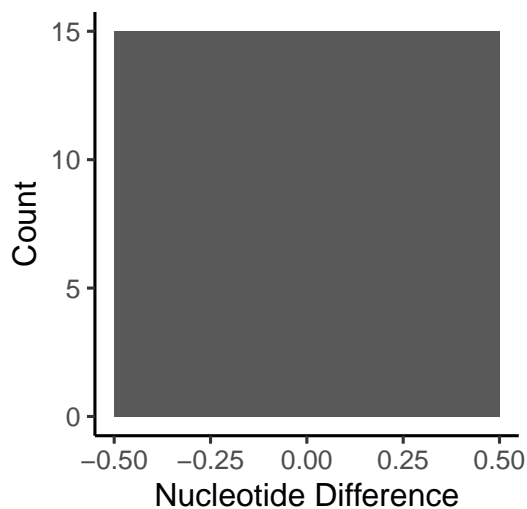
IGHV3-30-3*03

1 sequences assigned
No exact matches.



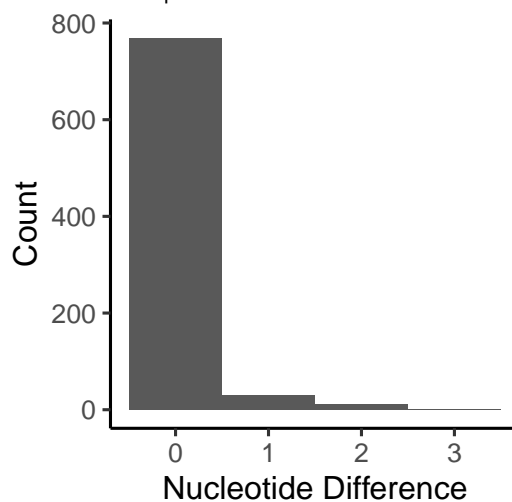
IGHV3-13*05

15 sequences assigned
15 (100%) exact matches, in which:
15 unique CDR3
5 unique J



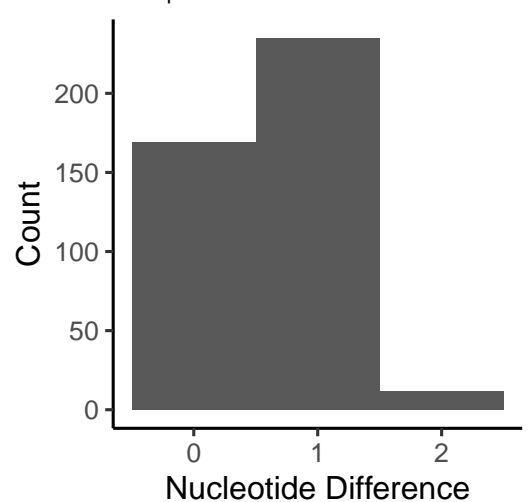
IGHV3-21*01_02

810 sequences assigned
769 (94.9%) exact matches, in which:
761 unique CDR3
7 unique J



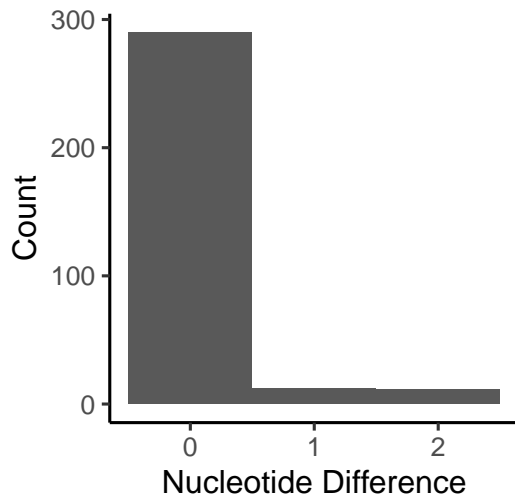
IGHV3-33*01

416 sequences assigned
169 (40.6%) exact matches, in which:
166 unique CDR3
6 unique J



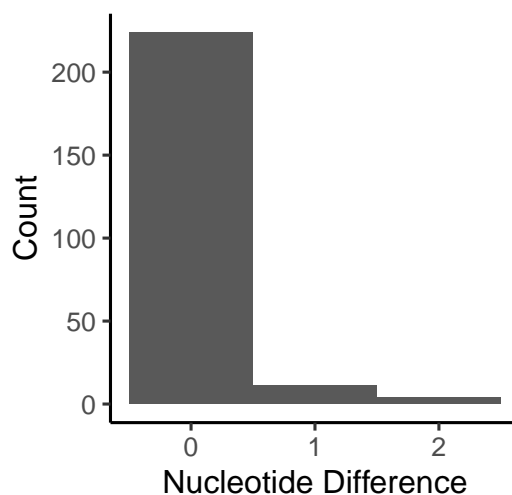
IGHV3-15*01_02

313 sequences assigned
290 (92.7%) exact matches, in which:
289 unique CDR3
7 unique J



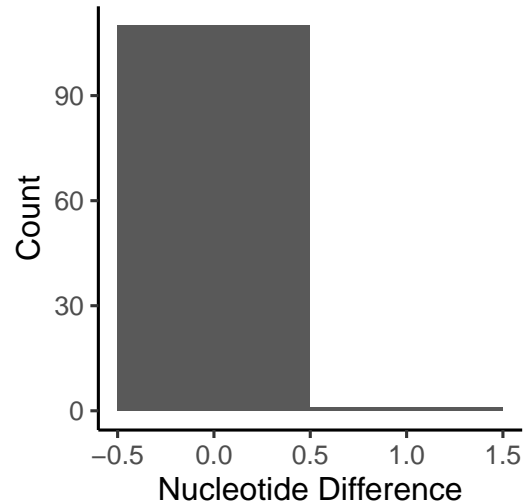
IGHV3-30*01

239 sequences assigned
224 (93.7%) exact matches, in which:
223 unique CDR3
6 unique J



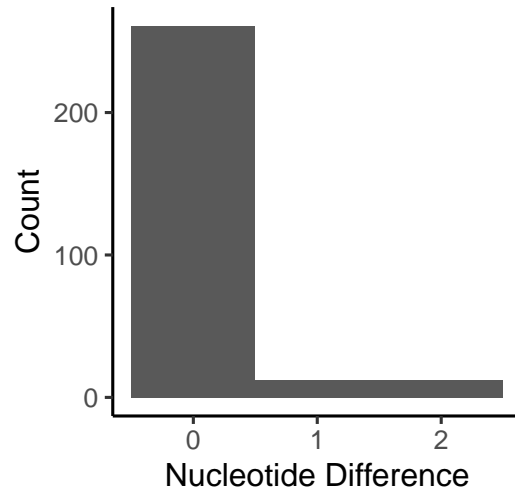
IGHV3-43*01

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



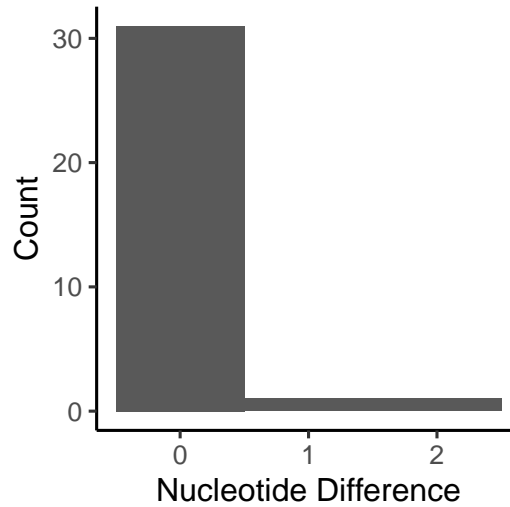
IGHV3-48*01

285 sequences assigned
261 (91.6%) exact matches, in which:
260 unique CDR3
6 unique J



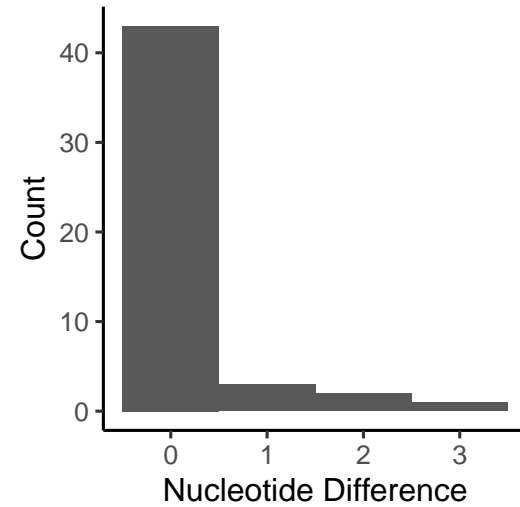
IGHV3-49*03_05

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



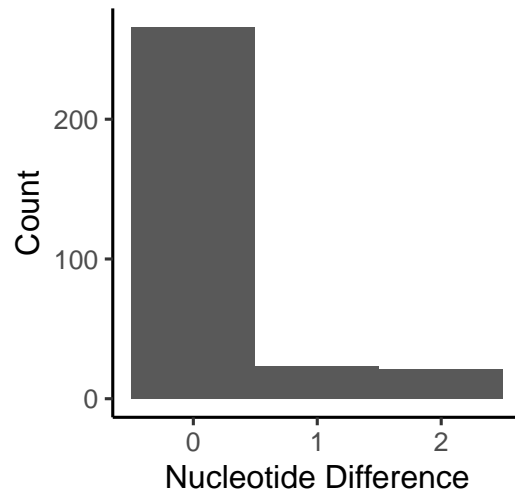
IGHV3-64*01

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



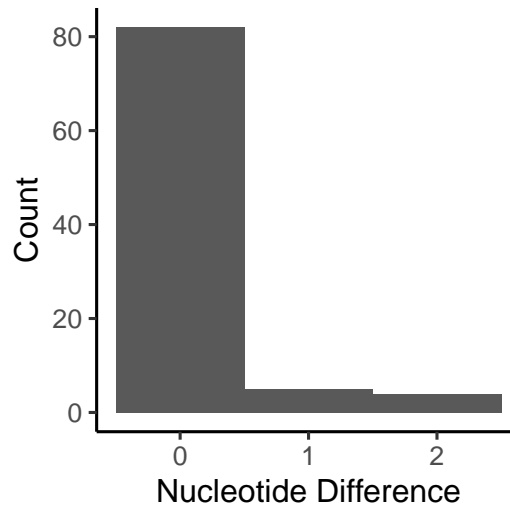
IGHV3-48*02

310 sequences assigned
266 (85.8%) exact matches, in which:
261 unique CDR3
6 unique J



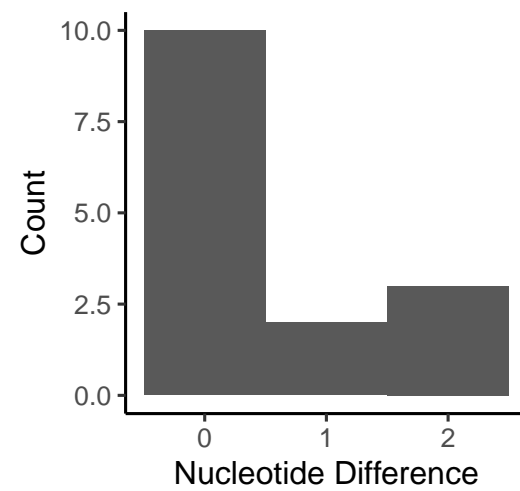
IGHV3-53*04

91 sequences assigned
82 (90.1%) exact matches, in which:
82 unique CDR3
5 unique J



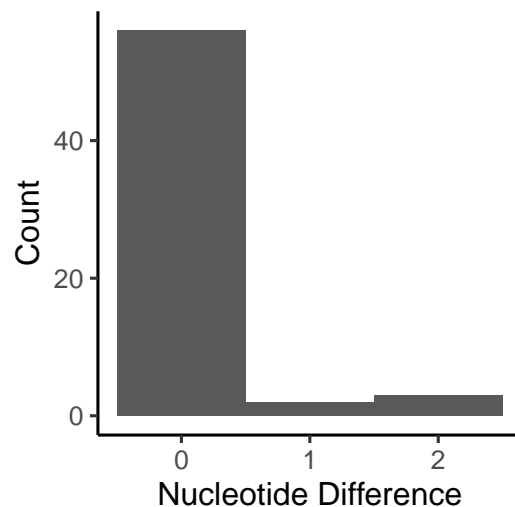
IGHV3-72*01

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



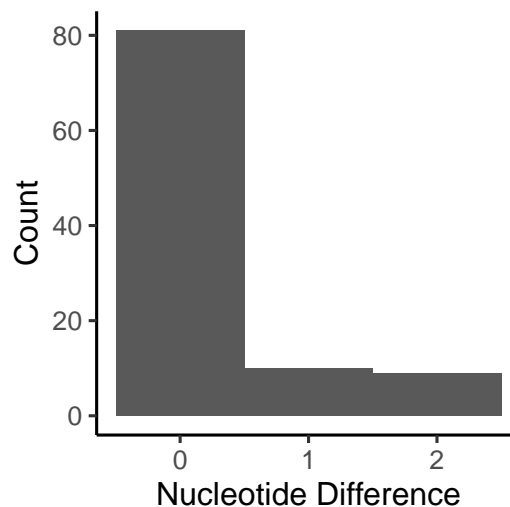
IGHV3-49*04

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



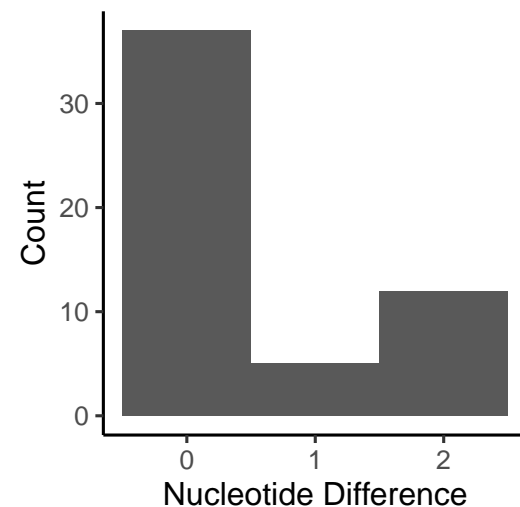
IGHV3-53*01_02

100 sequences assigned
81 (81%) exact matches, in which:
81 unique CDR3
6 unique J



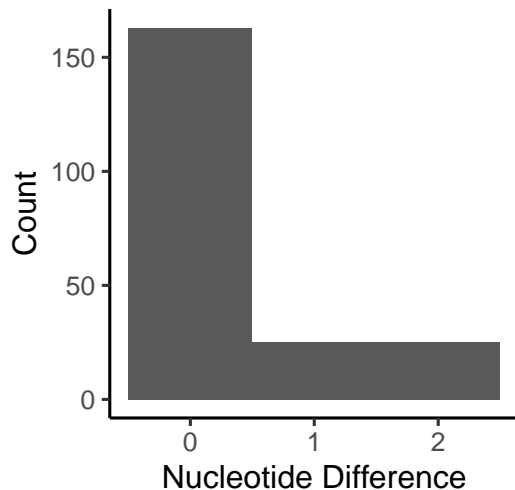
IGHV3-73*01_02

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



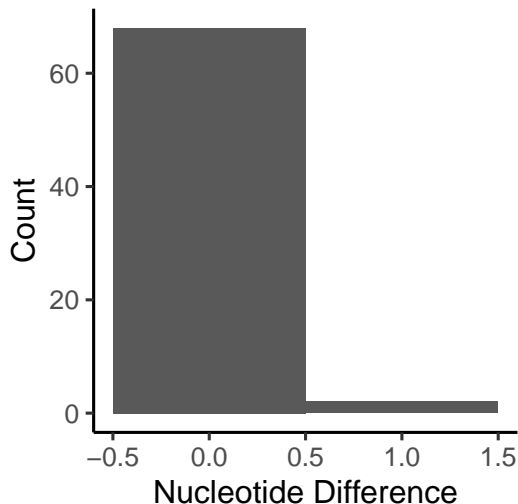
IGHV3-74*01_02

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



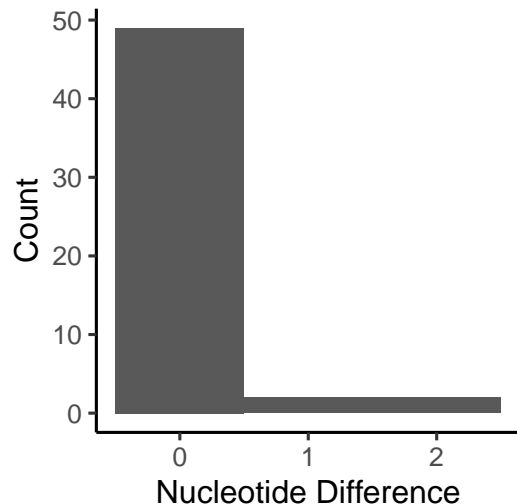
IGHV3-64D*09

70 sequences assigned
68 (97.1%) exact matches, in which:
67 unique CDR3
5 unique J



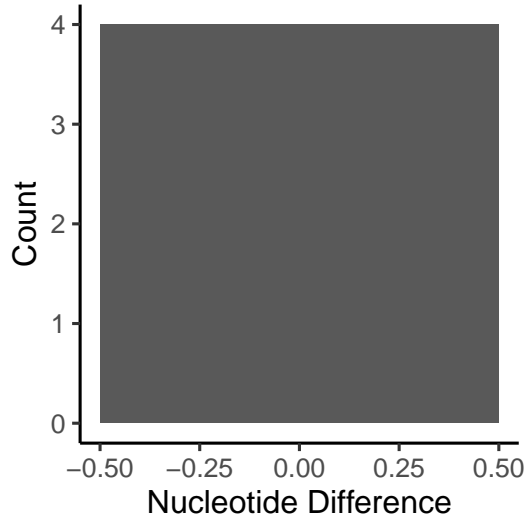
IGHV4-31*01

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



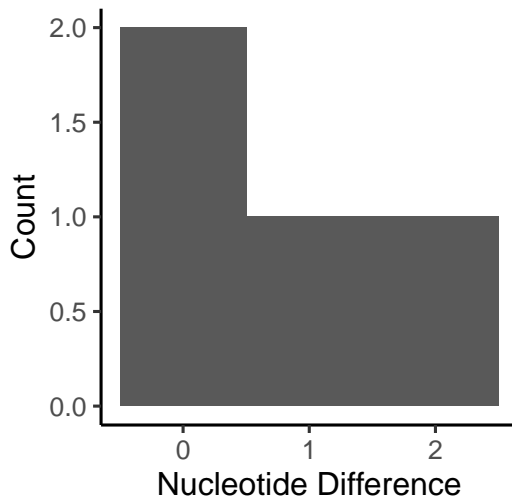
IGHV3-43D*04

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



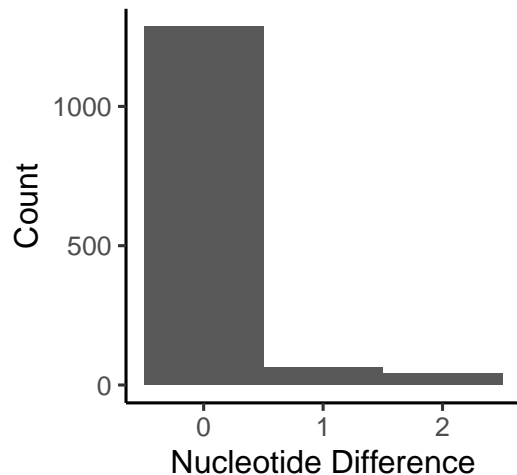
IGHV4-28*01_07

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



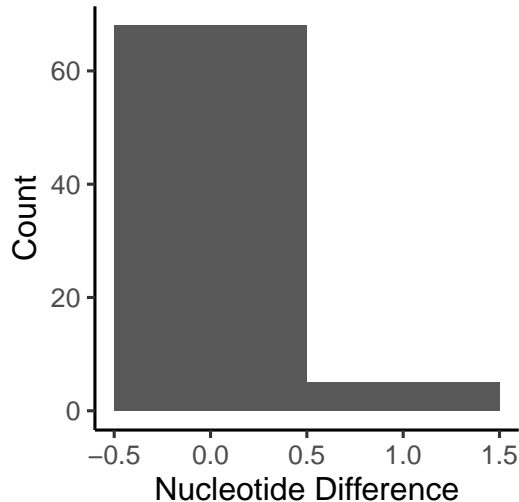
IGHV4-34*01_02

1389 sequences assigned
1286 (92.6%) exact matches, in which:
1275 unique CDR3
7 unique J



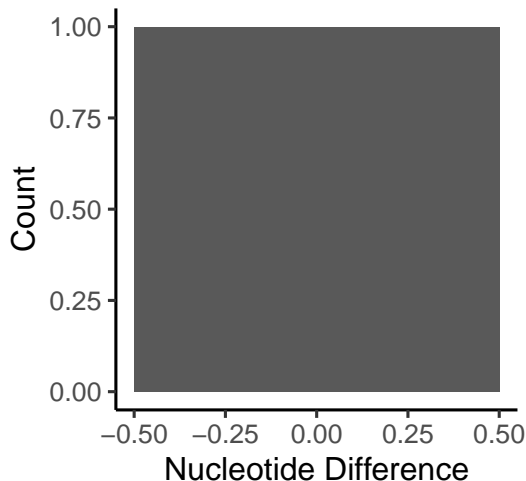
IGHV3-64D*06

73 sequences assigned
68 (93.2%) exact matches, in which:
68 unique CDR3
6 unique J



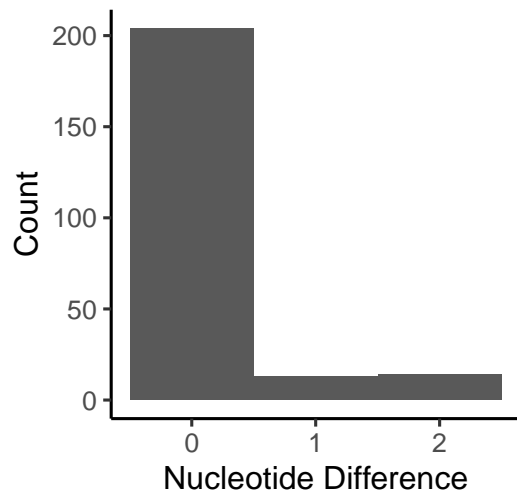
IGHV4-28*02_05

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



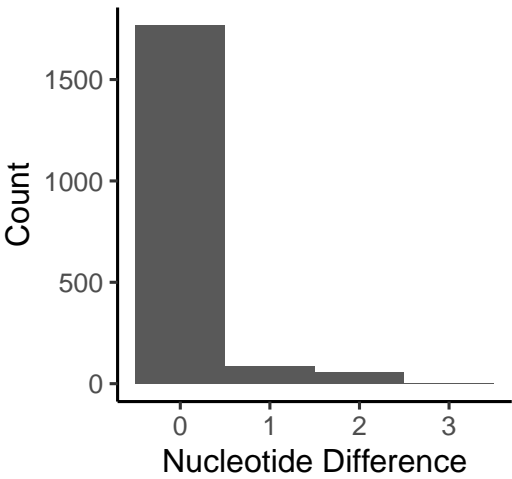
IGHV4-38-2*02_A70G

231 sequences assigned
204 (88.3%) exact matches, in which:
203 unique CDR3
6 unique J



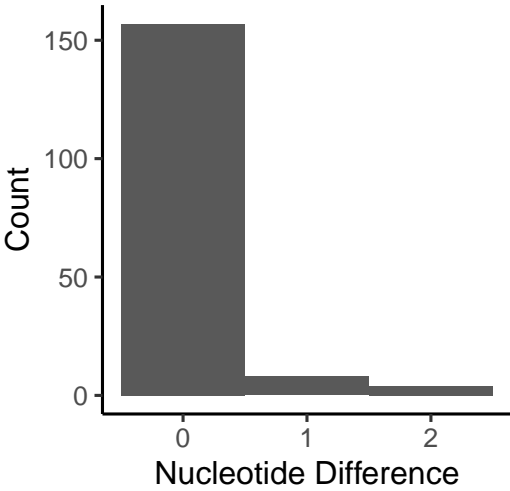
IGHV4-39*01_05

1910 sequences assigned
1767 (92.5%) exact matches, in which:
1746 unique CDR3
7 unique J



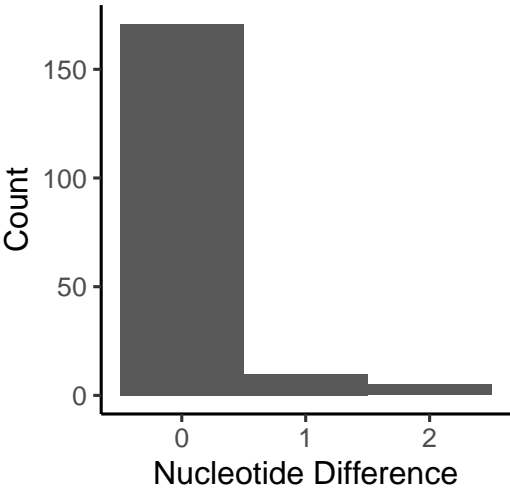
IGHV4-61*01

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



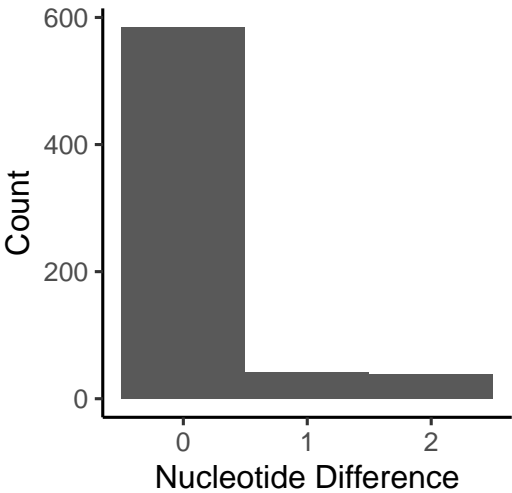
IGHV6-1*01_02

186 sequences assigned
171 (91.9%) exact matches, in which:
171 unique CDR3
7 unique J



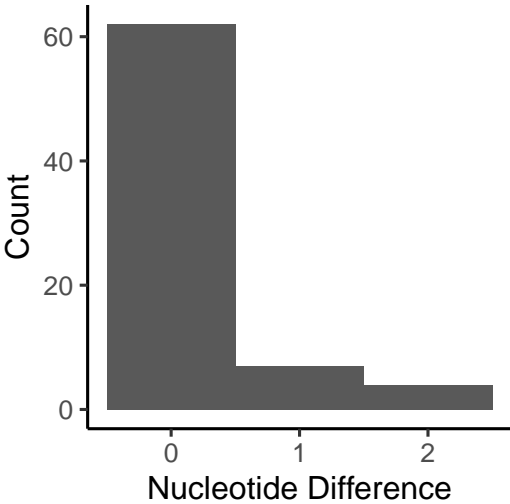
IGHV4-59*08

666 sequences assigned
585 (87.8%) exact matches, in which:
581 unique CDR3
7 unique J



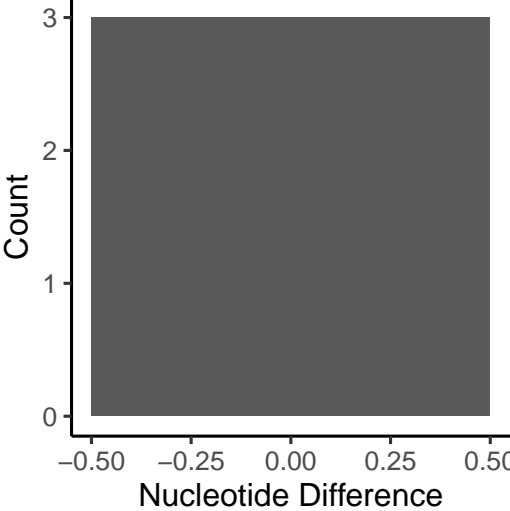
IGHV5-10-1*01_03

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



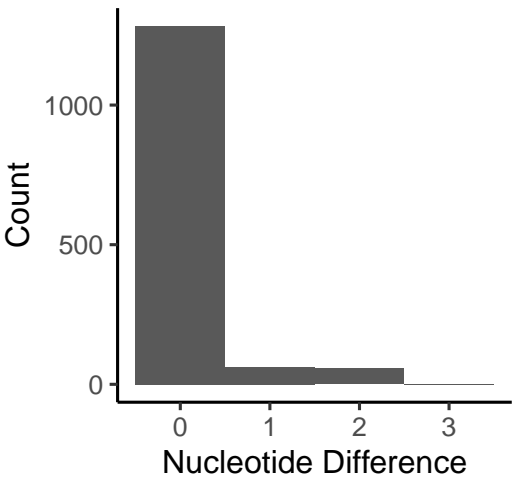
IGHV7-4-1*01

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



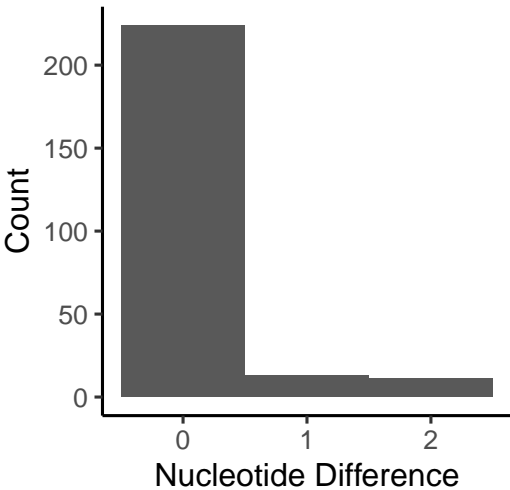
IGHV4-59*01_07

1402 sequences assigned
1283 (91.5%) exact matches, in which:
1272 unique CDR3
7 unique J

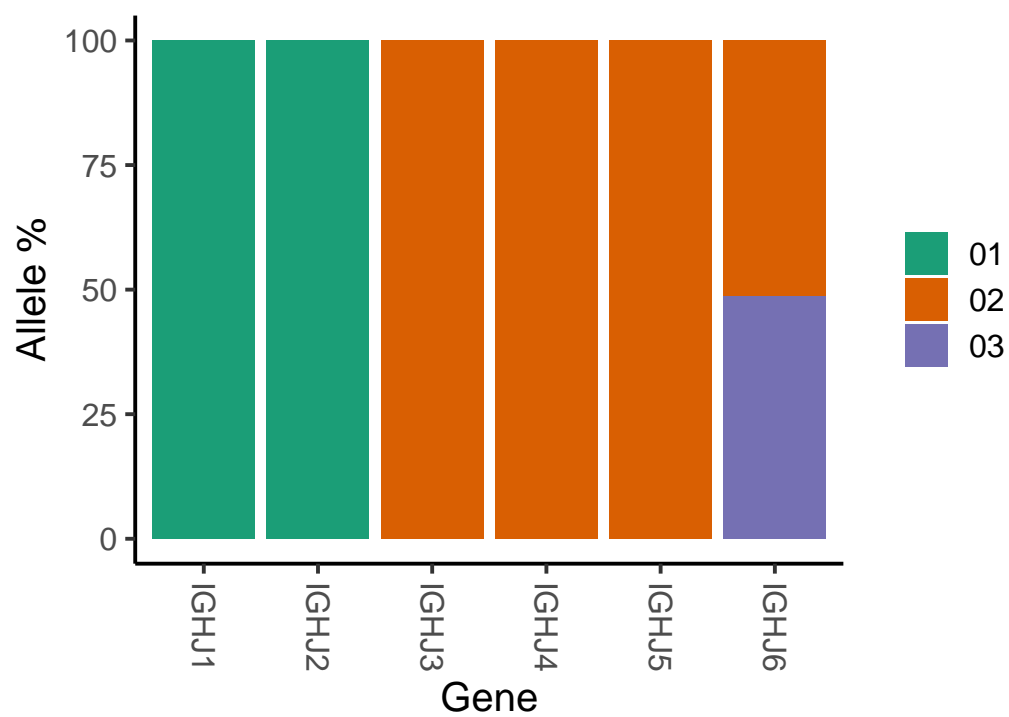


IGHV5-51*01_03

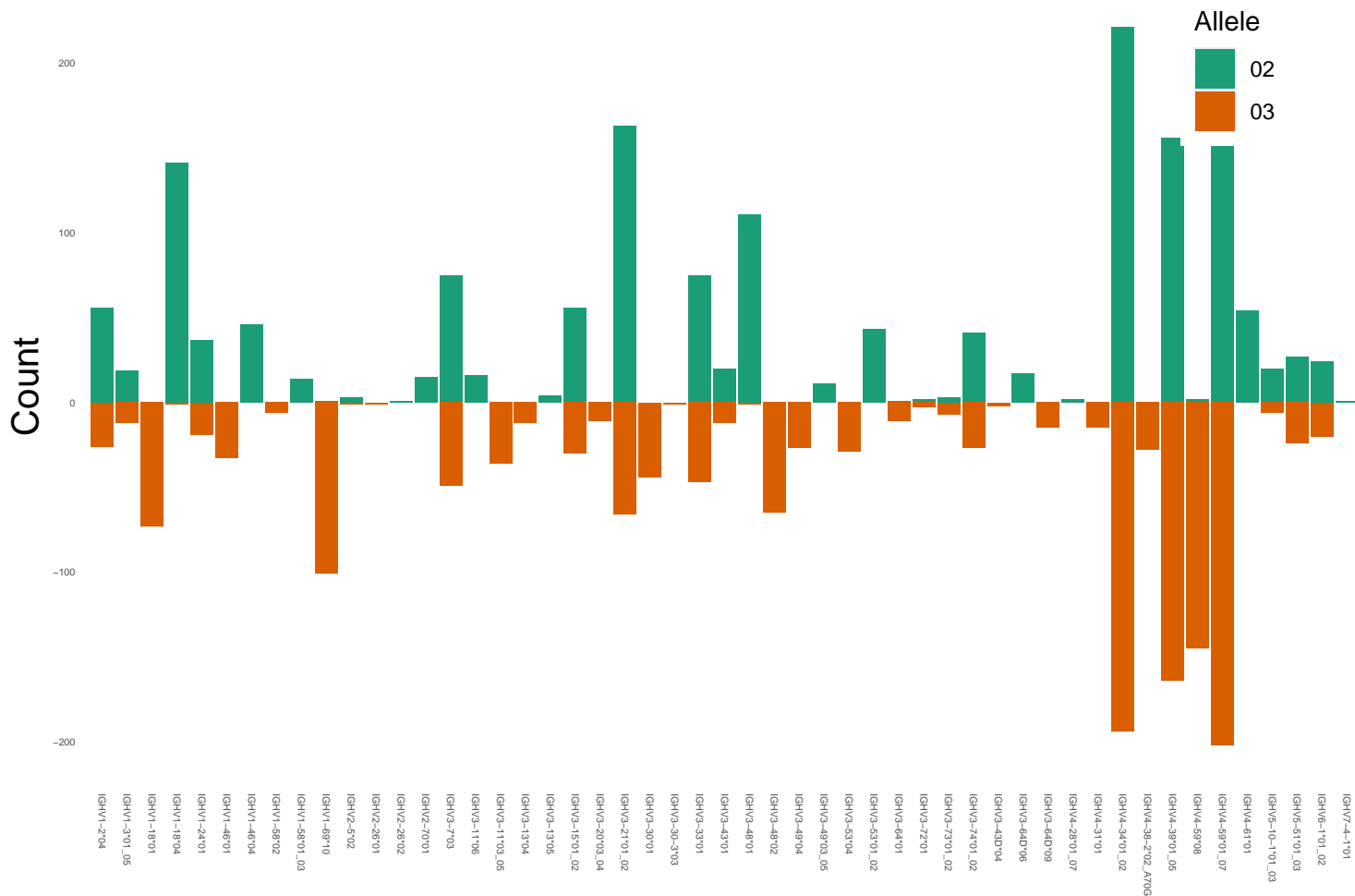
248 sequences assigned
224 (90.3%) exact matches, in which:
224 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning: the inserted sequence is not