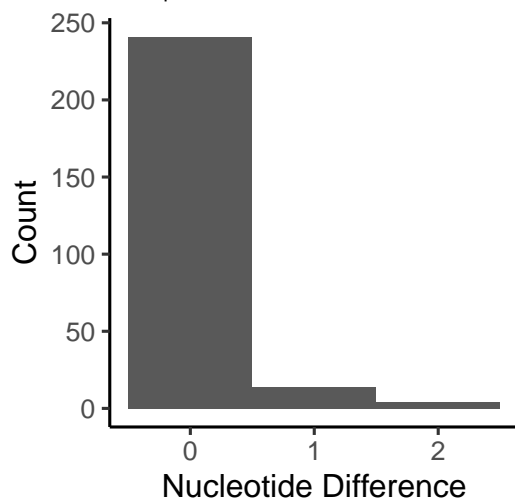


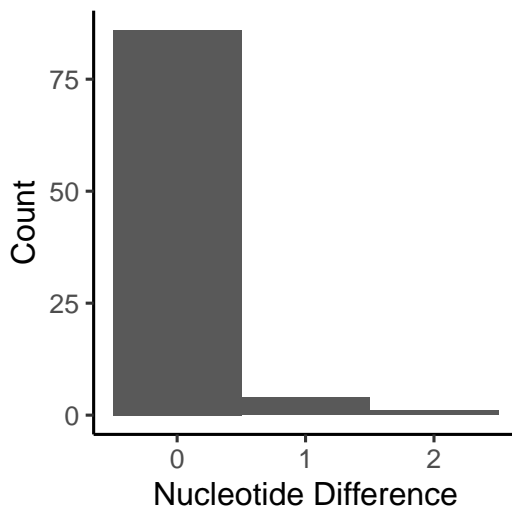
IGHV1-2*02

259 sequences assigned
241 (93.1%) exact matches, in which:
239 unique CDR3
7 unique J



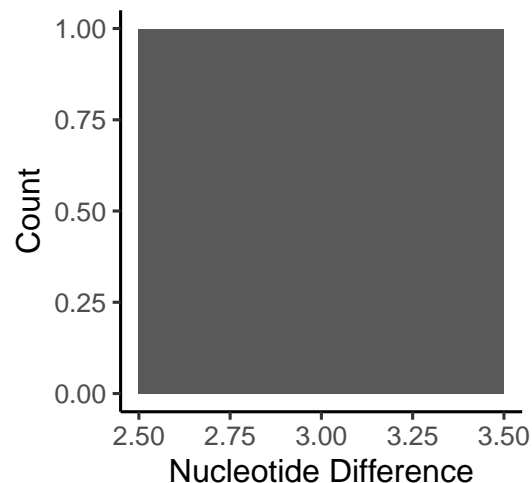
IGHV1-8*03

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



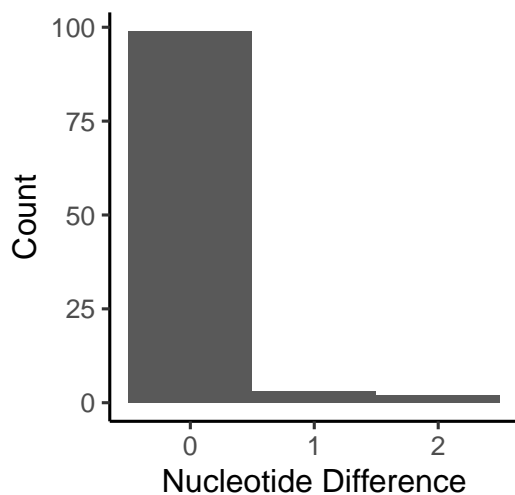
IGHV1-38-4*01

1 sequences assigned
No exact matches.



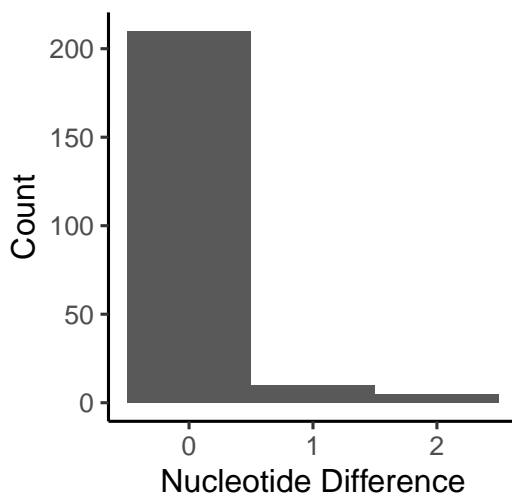
IGHV1-2*04

104 sequences assigned
99 (95.2%) exact matches, in which:
99 unique CDR3
6 unique J



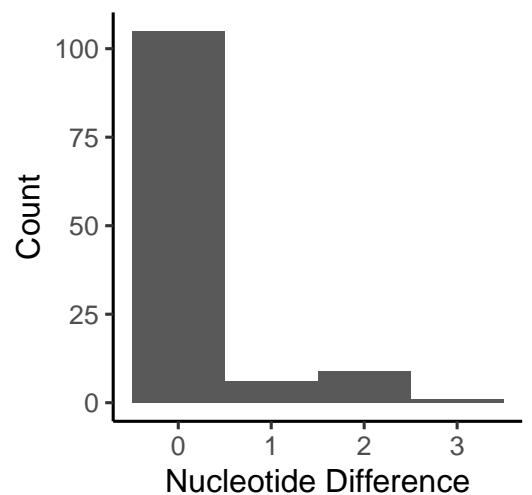
IGHV1-18*01

225 sequences assigned
210 (93.3%) exact matches, in which:
210 unique CDR3
6 unique J



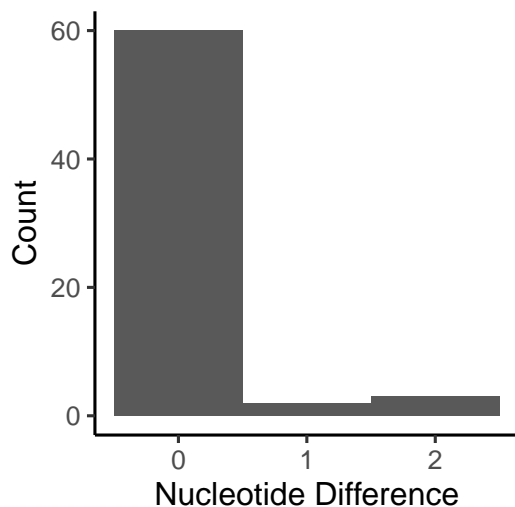
IGHV1-46*01

121 sequences assigned
105 (86.8%) exact matches, in which:
105 unique CDR3
7 unique J



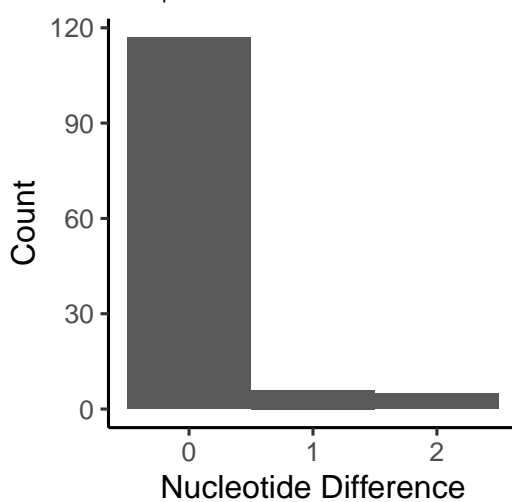
IGHV1-3*01_05

65 sequences assigned
60 (92.3%) exact matches, in which:
60 unique CDR3
5 unique J



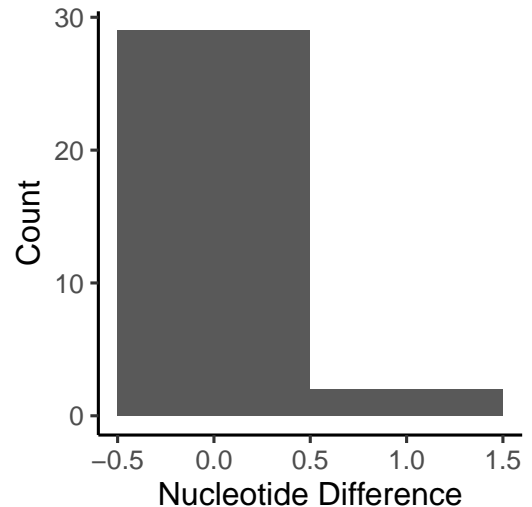
IGHV1-24*01

128 sequences assigned
117 (91.4%) exact matches, in which:
117 unique CDR3
5 unique J



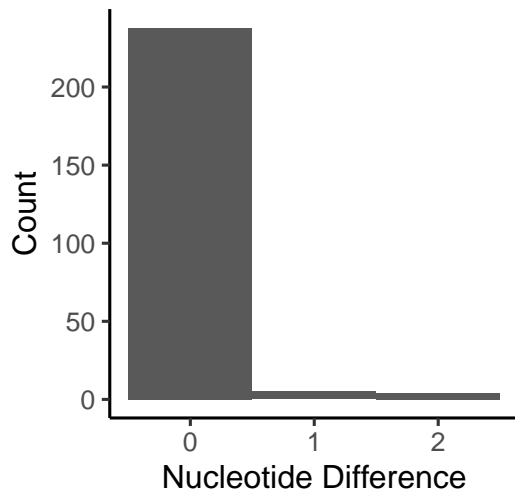
IGHV1-58*01_03

31 sequences assigned
29 (93.5%) exact matches, in which:
29 unique CDR3
6 unique J



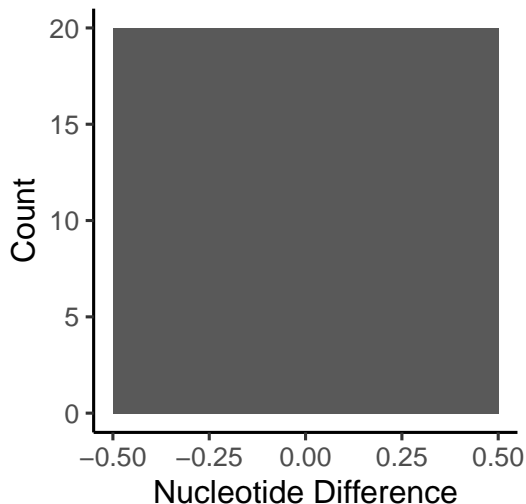
IGHV1–69*06_14

247 sequences assigned
238 (96.4%) exact matches, in which:
238 unique CDR3
6 unique J



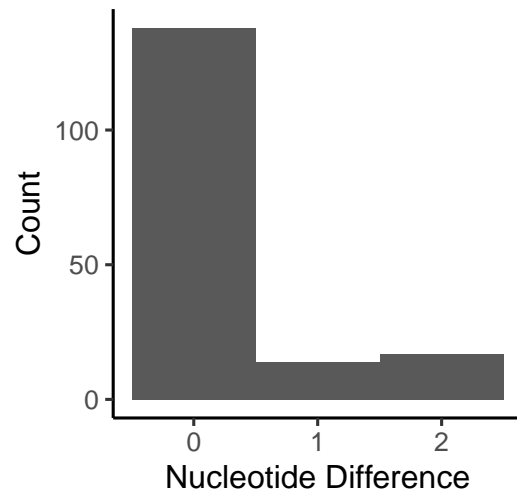
IGHV2–26*01

20 sequences assigned
20 (100%) exact matches, in which:
20 unique CDR3
5 unique J



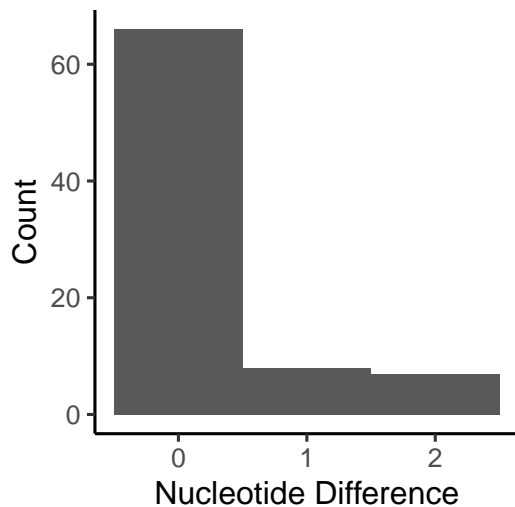
IGHV3–7*03

169 sequences assigned
138 (81.7%) exact matches, in which:
132 unique CDR3
5 unique J



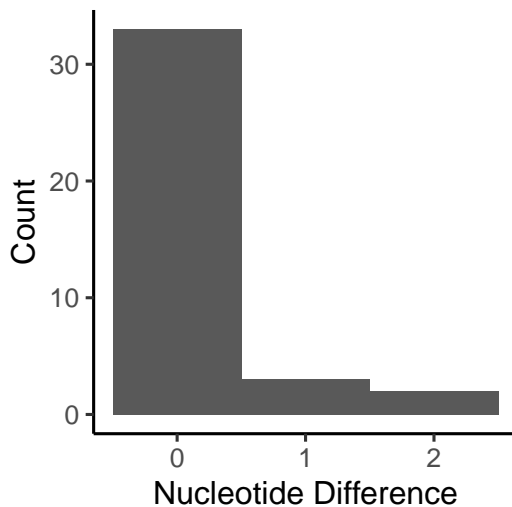
IGHV2–5*01

81 sequences assigned
66 (81.5%) exact matches, in which:
66 unique CDR3
6 unique J



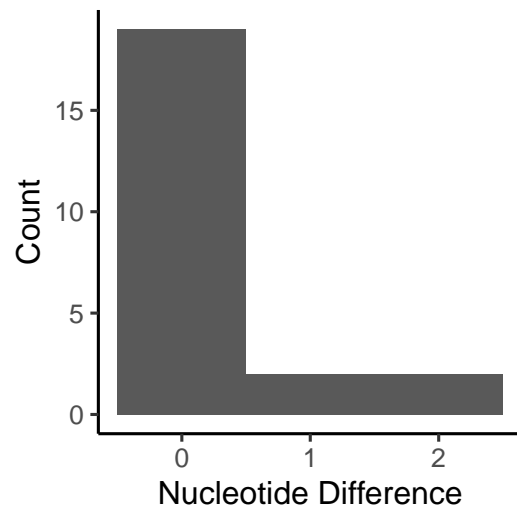
IGHV2–70*01

38 sequences assigned
33 (86.8%) exact matches, in which:
32 unique CDR3
4 unique J



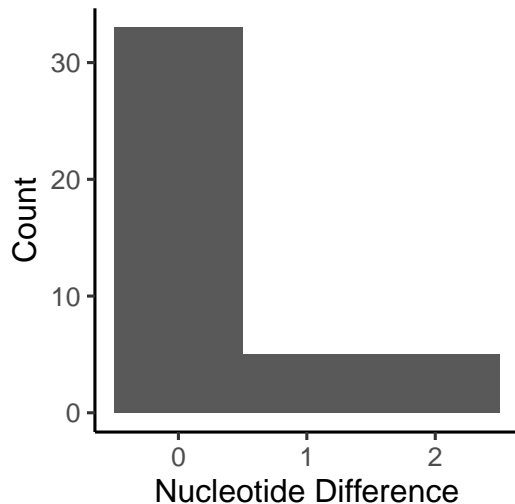
IGHV3–9*03

23 sequences assigned
19 (82.6%) exact matches, in which:
18 unique CDR3
4 unique J



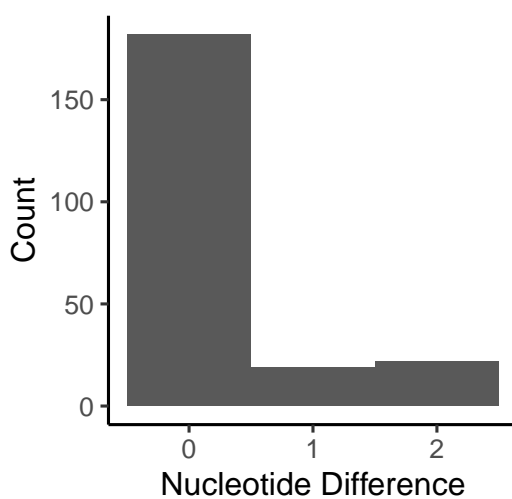
IGHV2–5*02

43 sequences assigned
33 (76.7%) exact matches, in which:
33 unique CDR3
4 unique J



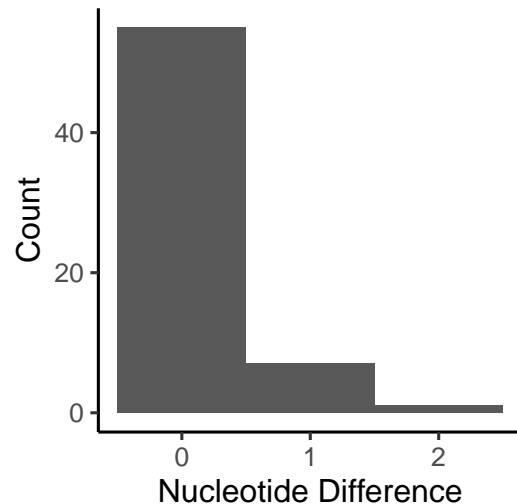
IGHV3–7*01

223 sequences assigned
182 (81.6%) exact matches, in which:
180 unique CDR3
6 unique J



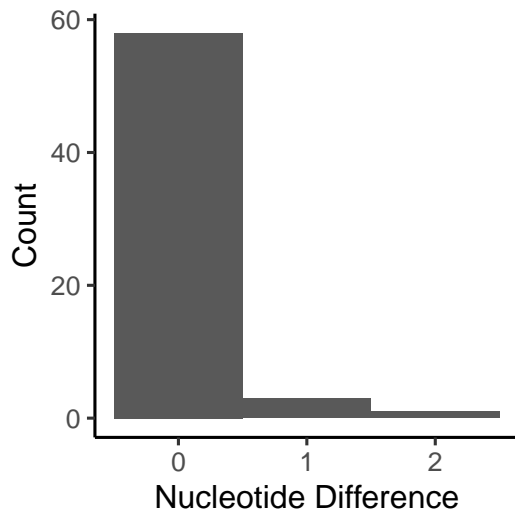
IGHV3–11*04

63 sequences assigned
55 (87.3%) exact matches, in which:
55 unique CDR3
6 unique J



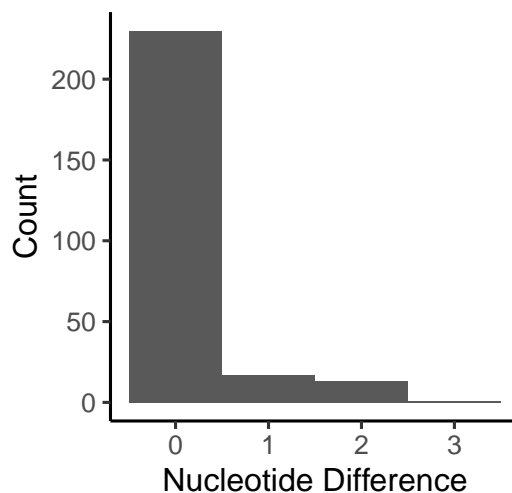
IGHV3-15*01_02

62 sequences assigned
58 (93.5%) exact matches, in which:
57 unique CDR3
6 unique J



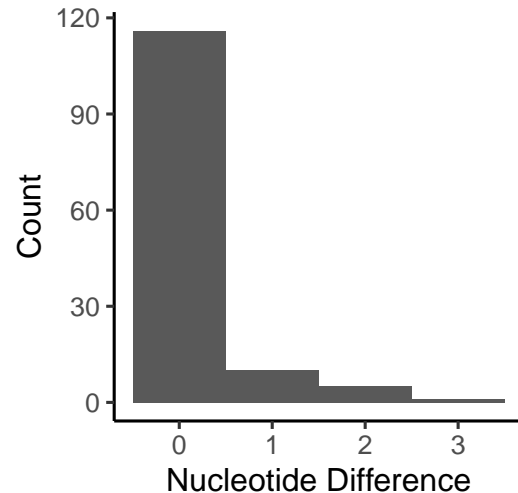
IGHV3-30-3*01

261 sequences assigned
230 (88.1%) exact matches, in which:
229 unique CDR3
7 unique J



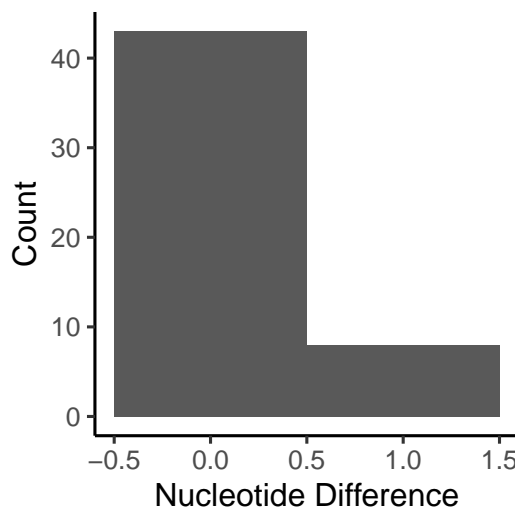
IGHV3-43*02

132 sequences assigned
116 (87.9%) exact matches, in which:
113 unique CDR3
6 unique J



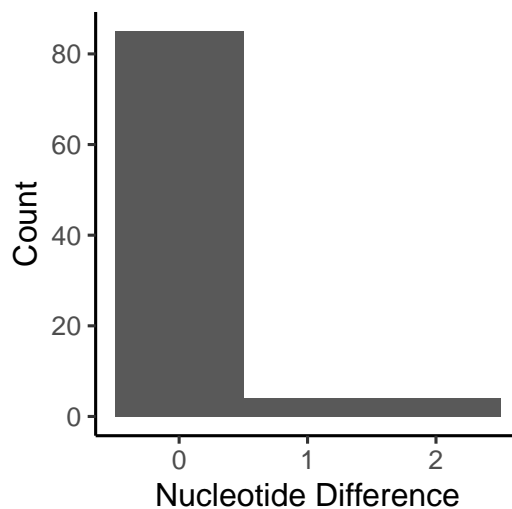
IGHV3-20*03_04

51 sequences assigned
43 (84.3%) exact matches, in which:
42 unique CDR3
5 unique J



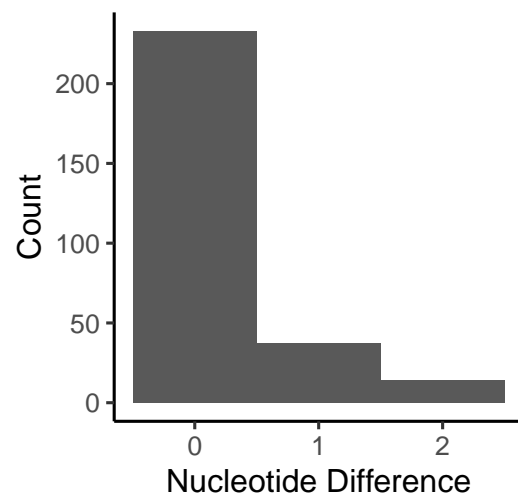
IGHV3-33*01

93 sequences assigned
85 (91.4%) exact matches, in which:
85 unique CDR3
5 unique J



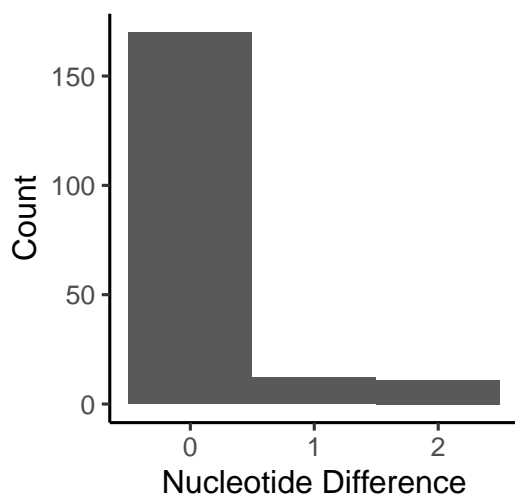
IGHV3-48*03

284 sequences assigned
233 (82%) exact matches, in which:
226 unique CDR3
6 unique J



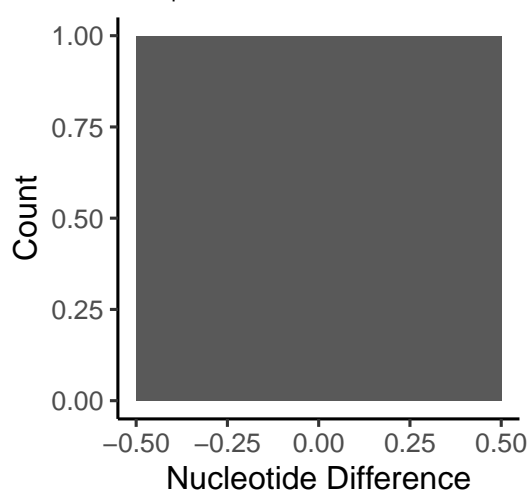
IGHV3-21*01_02

193 sequences assigned
170 (88.1%) exact matches, in which:
163 unique CDR3
7 unique J



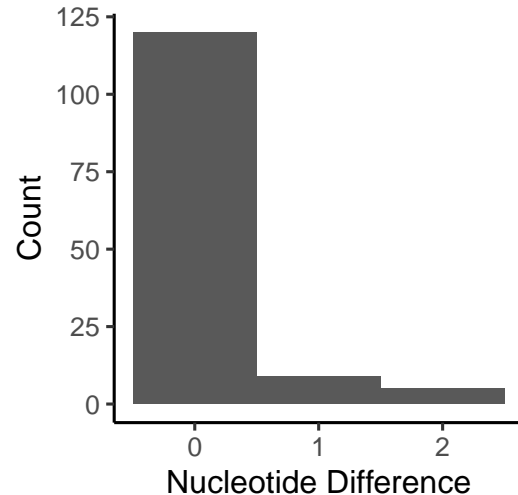
IGHV3-38-3*01

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



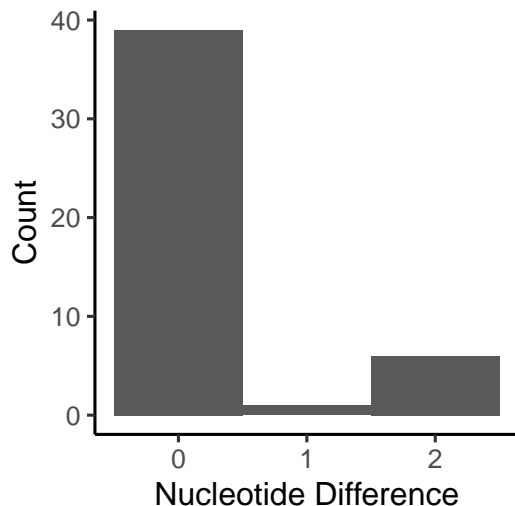
IGHV3-48*04

134 sequences assigned
120 (89.6%) exact matches, in which:
118 unique CDR3
6 unique J



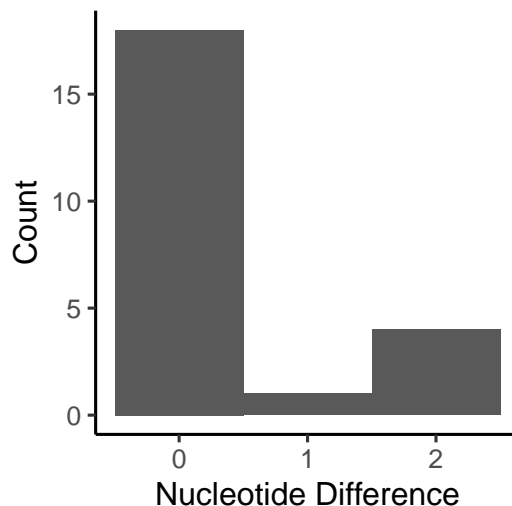
IGHV3-49*04

46 sequences assigned
39 (84.8%) exact matches, in which:
39 unique CDR3
6 unique J



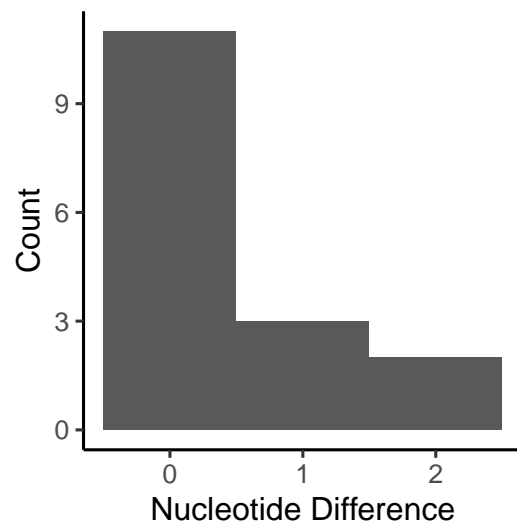
IGHV3-64*01

23 sequences assigned
18 (78.3%) exact matches, in which:
17 unique CDR3
4 unique J



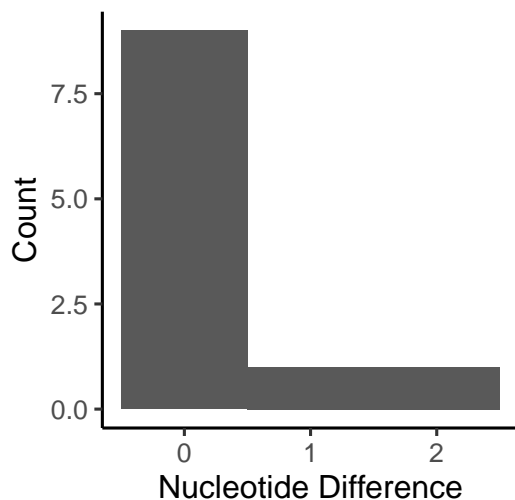
IGHV3-72*01

16 sequences assigned
11 (68.8%) exact matches, in which:
11 unique CDR3
3 unique J



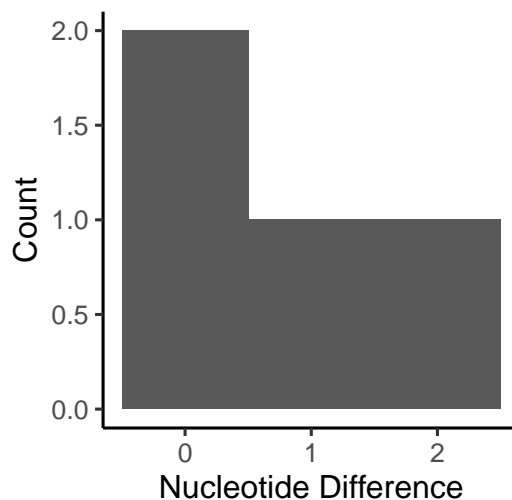
IGHV3-49*03_05

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
4 unique J



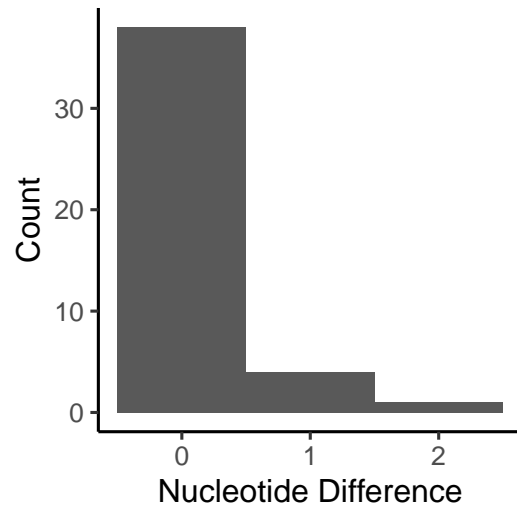
IGHV3-64*02_07

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



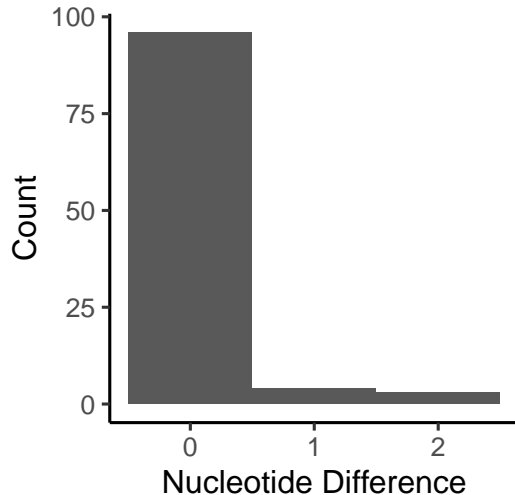
IGHV3-73*01_02

43 sequences assigned
38 (88.4%) exact matches, in which:
38 unique CDR3
5 unique J



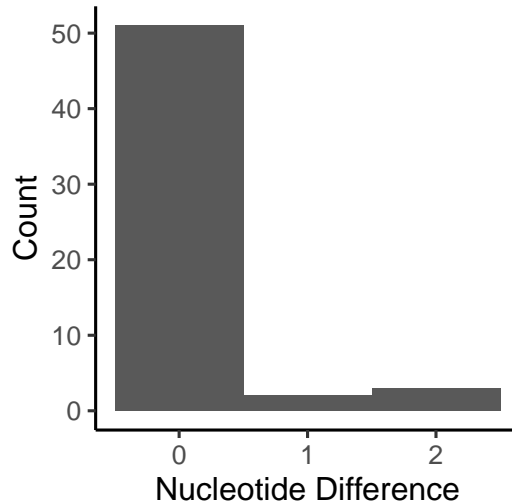
IGHV3-53*04

103 sequences assigned
96 (93.2%) exact matches, in which:
96 unique CDR3
6 unique J



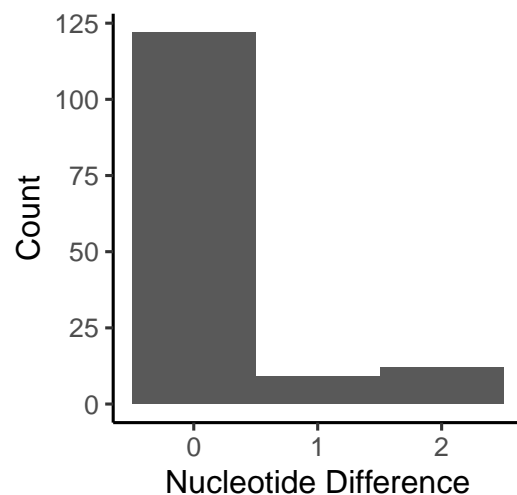
IGHV3-66*02

56 sequences assigned
51 (91.1%) exact matches, in which:
47 unique CDR3
5 unique J



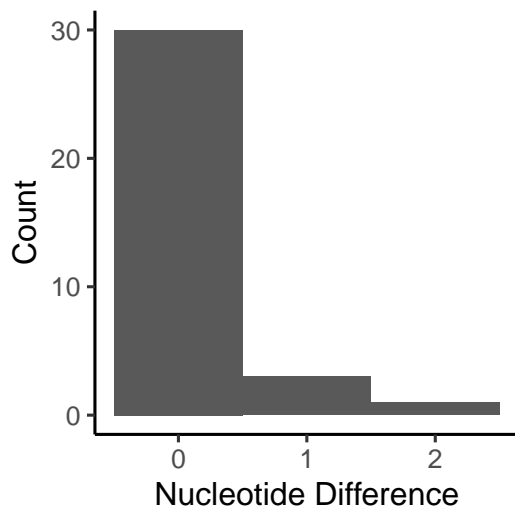
IGHV3-74*01_02

143 sequences assigned
122 (85.3%) exact matches, in which:
115 unique CDR3
7 unique J



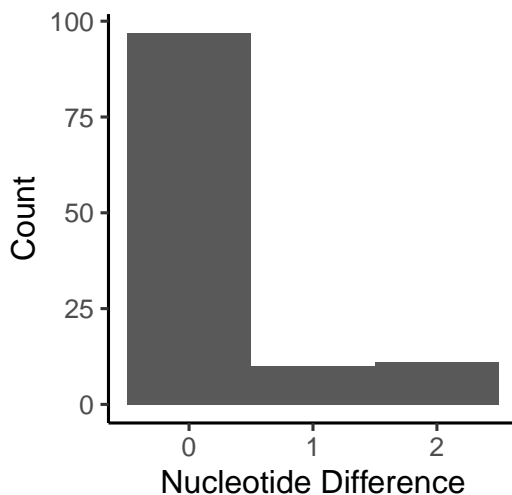
IGHV3-43D*03

34 sequences assigned
30 (88.2%) exact matches, in which:
30 unique CDR3
5 unique J



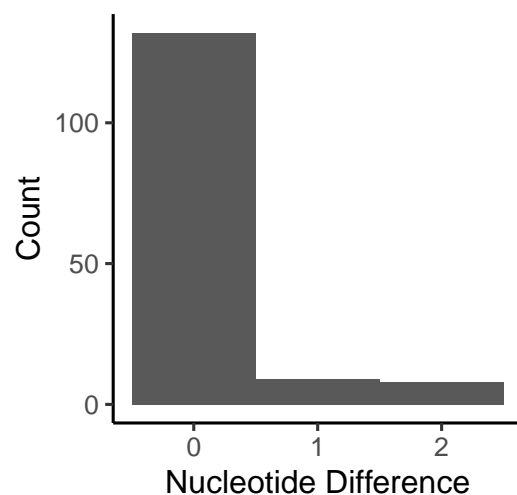
IGHV4-30-4*01

118 sequences assigned
97 (82.2%) exact matches, in which:
96 unique CDR3
6 unique J



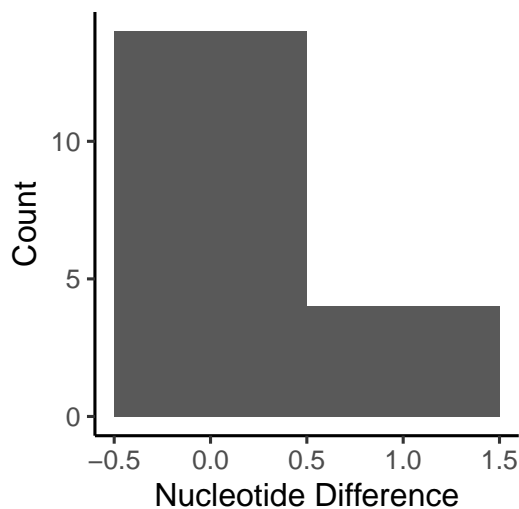
IGHV4-31*03_04

149 sequences assigned
132 (88.6%) exact matches, in which:
130 unique CDR3
6 unique J



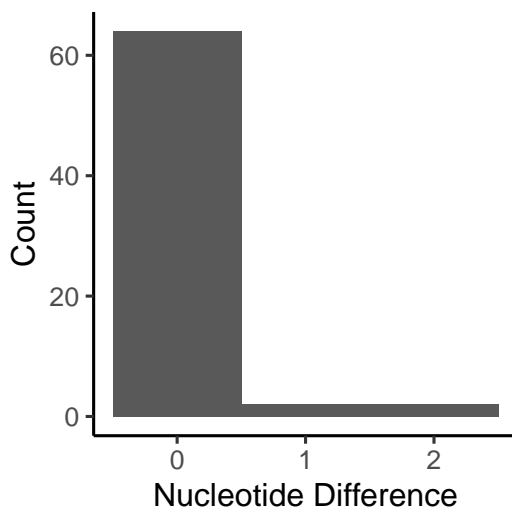
IGHV3-43D*04

18 sequences assigned
14 (77.8%) exact matches, in which:
14 unique CDR3
3 unique J



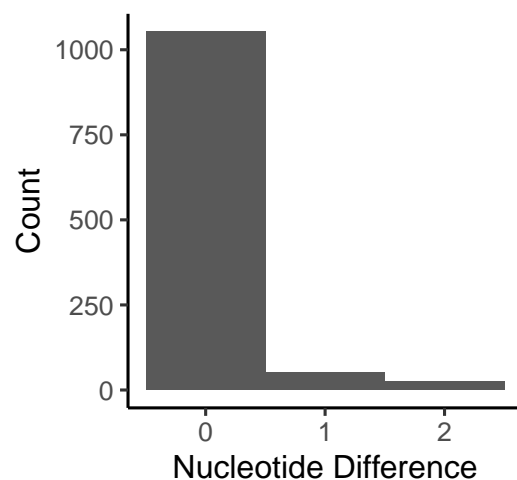
IGHV4-30-2*01

68 sequences assigned
64 (94.1%) exact matches, in which:
63 unique CDR3
5 unique J



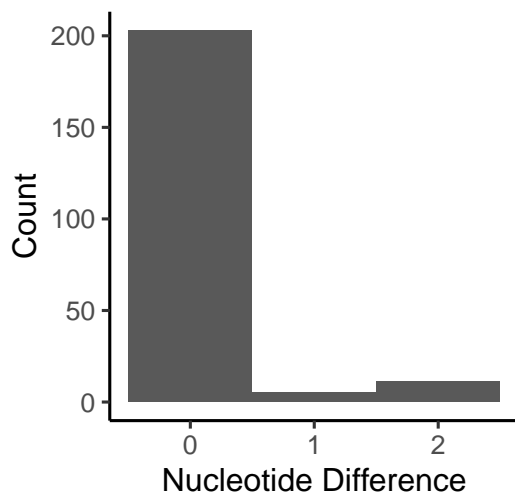
IGHV4-34*01_02

1128 sequences assigned
1053 (93.4%) exact matches, in which:
1016 unique CDR3
7 unique J



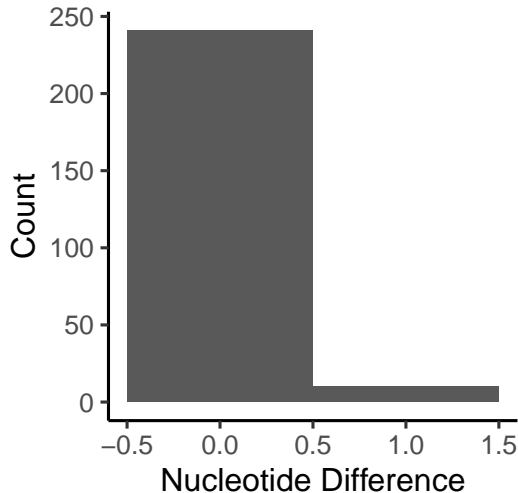
IGHV4-4*07

219 sequences assigned
203 (92.7%) exact matches, in which:
196 unique CDR3
7 unique J



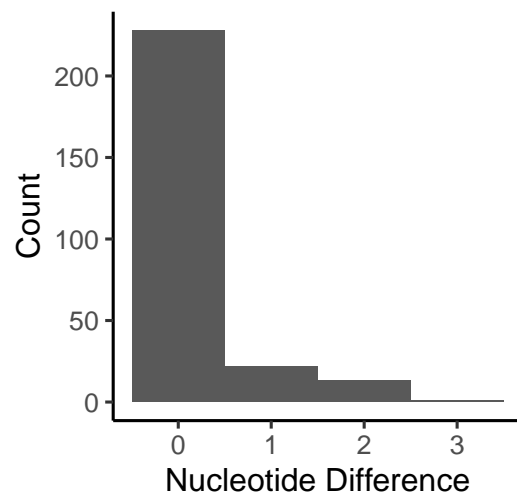
IGHV4-30-4*08

251 sequences assigned
241 (96%) exact matches, in which:
239 unique CDR3
6 unique J



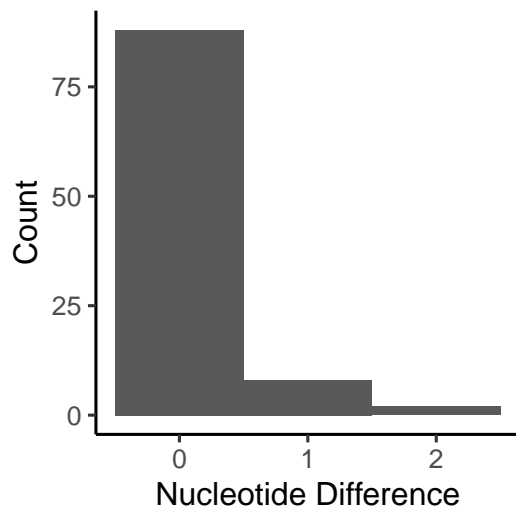
IGHV4-38-2*01

264 sequences assigned
228 (86.4%) exact matches, in which:
228 unique CDR3
6 unique J



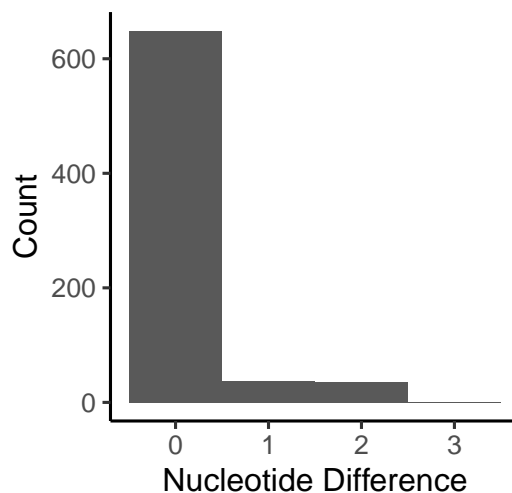
IGHV4-38-2*02

98 sequences assigned
88 (89.8%) exact matches, in which:
85 unique CDR3
5 unique J



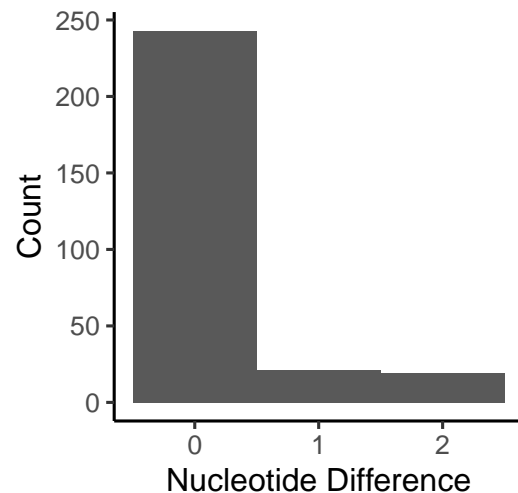
IGHV4-59*01_07

723 sequences assigned
649 (89.8%) exact matches, in which:
635 unique CDR3
7 unique J



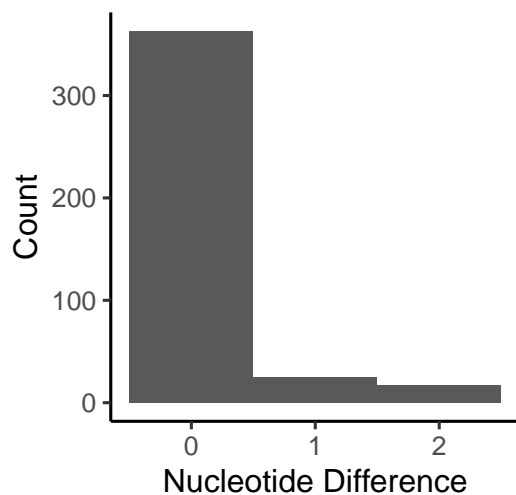
IGHV5-51*01_03

283 sequences assigned
243 (85.9%) exact matches, in which:
243 unique CDR3
7 unique J



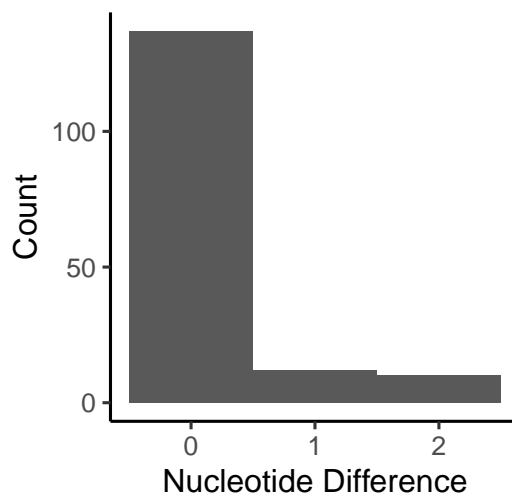
IGHV4-39*07

405 sequences assigned
363 (89.6%) exact matches, in which:
352 unique CDR3
6 unique J



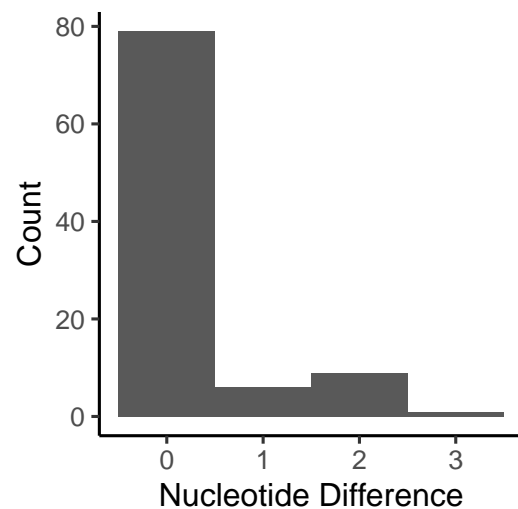
IGHV4-61*01

159 sequences assigned
137 (86.2%) exact matches, in which:
137 unique CDR3
5 unique J



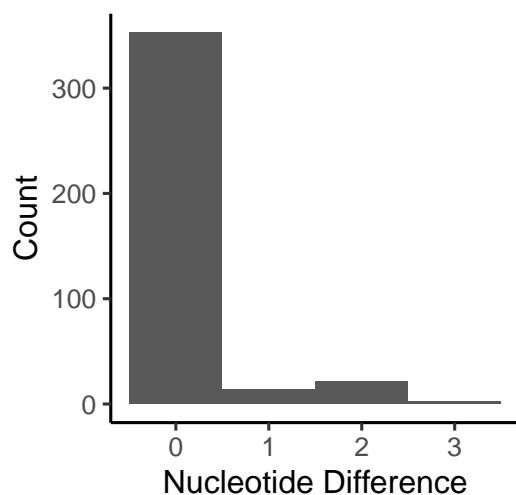
IGHV6-1*01_02

95 sequences assigned
79 (83.2%) exact matches, in which:
79 unique CDR3
7 unique J



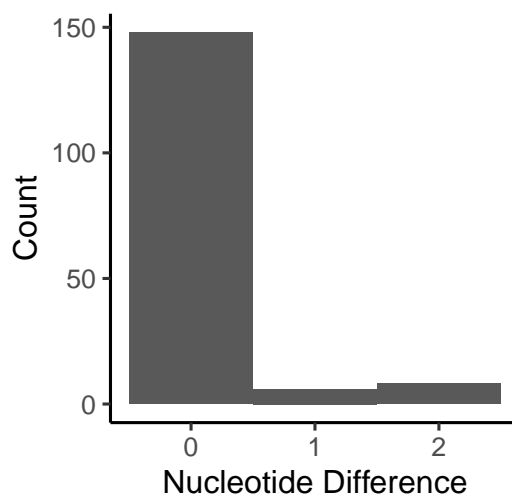
IGHV4-39*01_05

390 sequences assigned
353 (90.5%) exact matches, in which:
341 unique CDR3
6 unique J



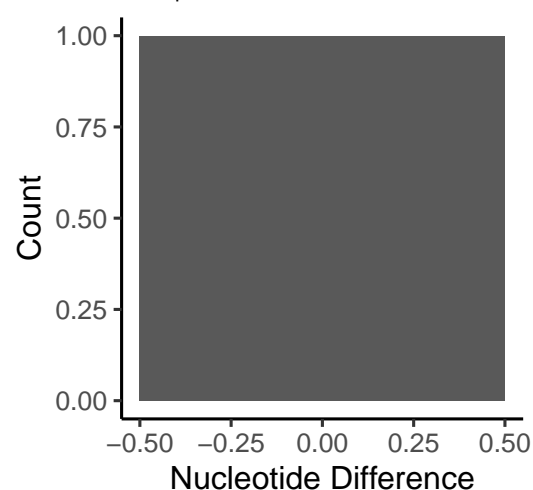
IGHV4-61*02

162 sequences assigned
148 (91.4%) exact matches, in which:
145 unique CDR3
6 unique J

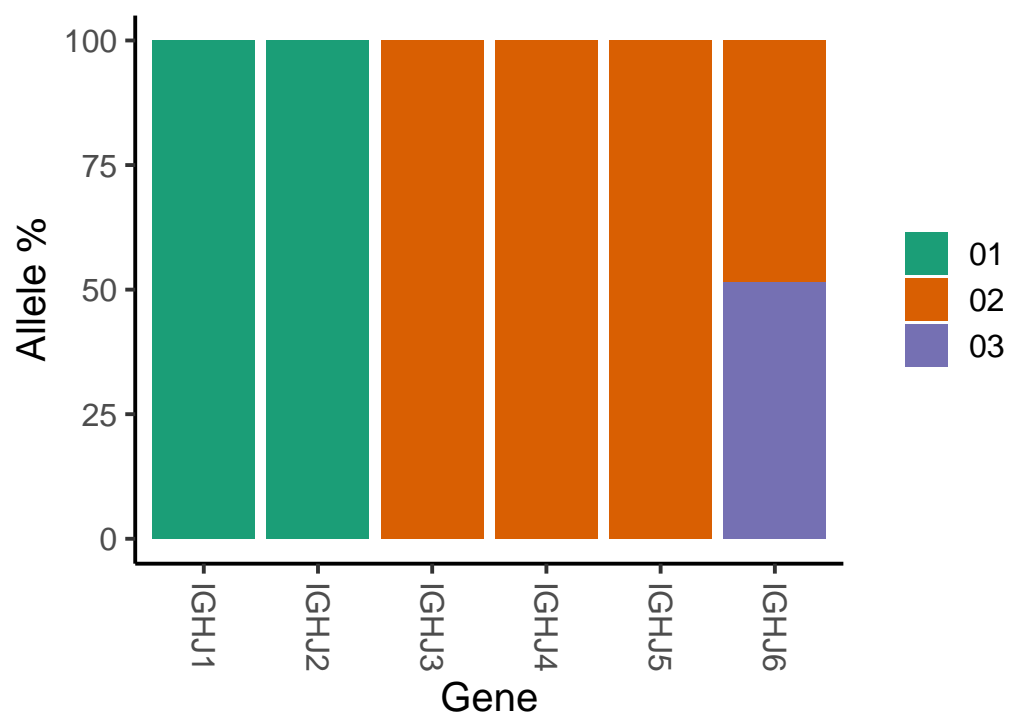


IGHV7-4-1*01

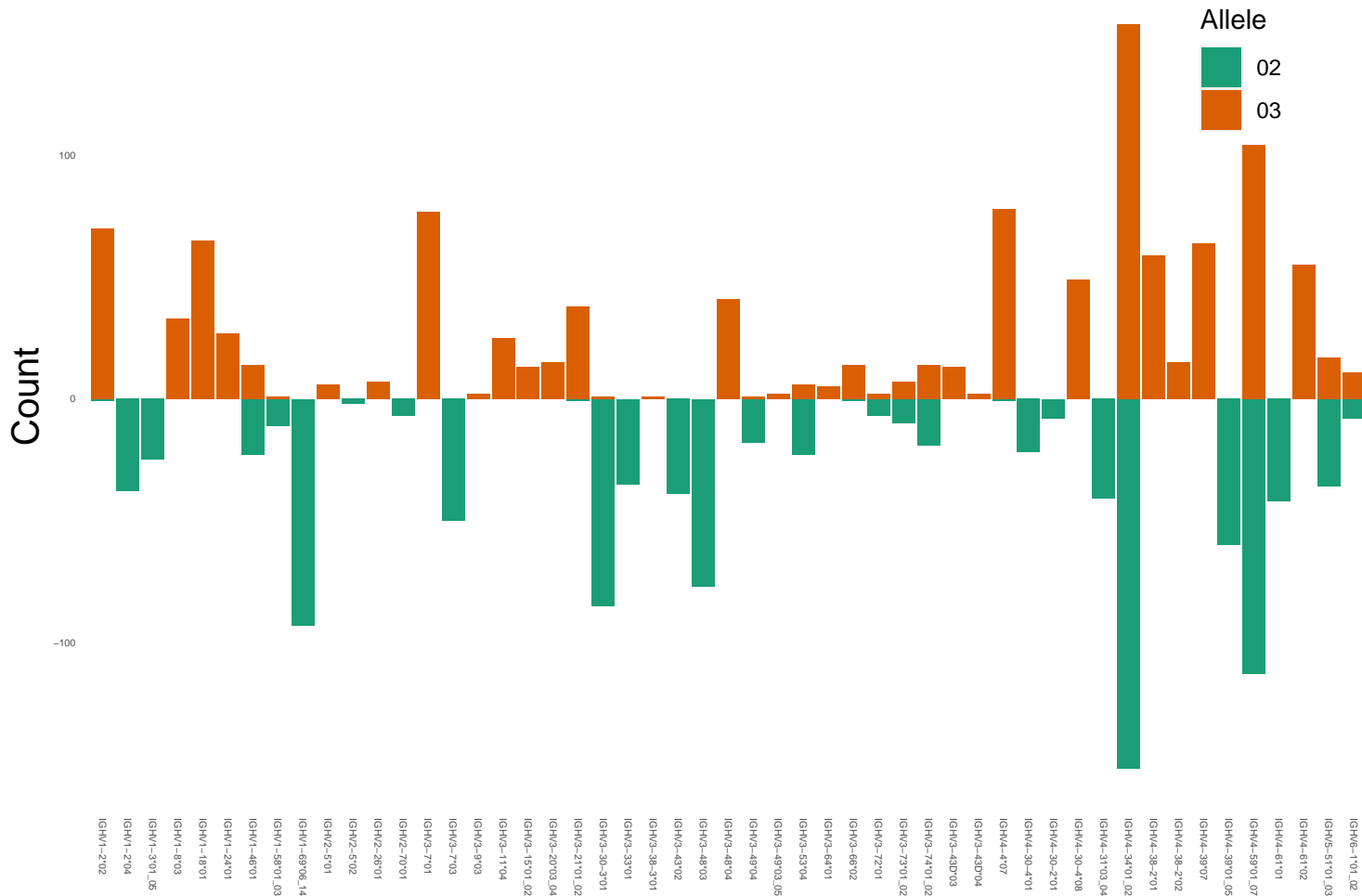
1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Never sequences(0) for IV : 00 02=000A for IV: 01 07=011200 are not listed in the genotype and will be ignored.