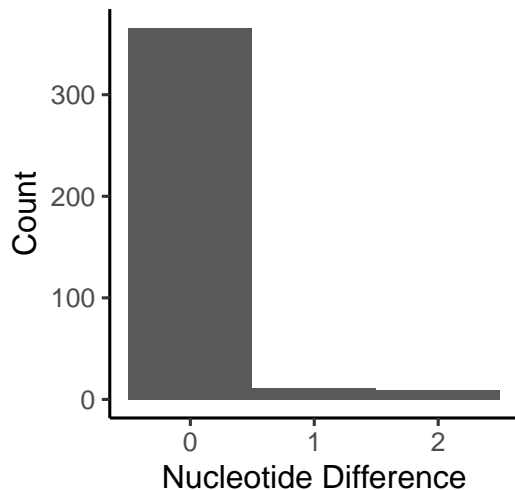


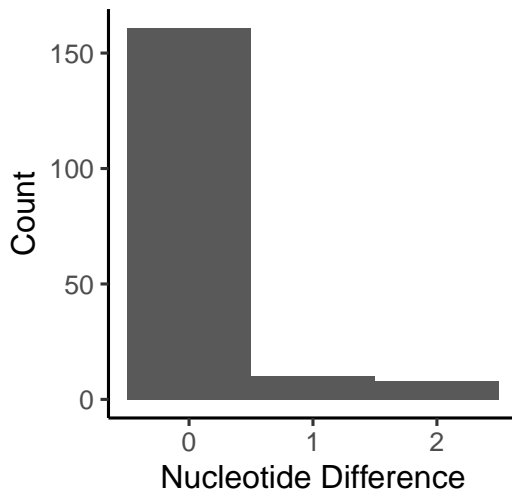
IGHV1-2*02

386 sequences assigned
366 (94.8%) exact matches, in which:
366 unique CDR3
7 unique J



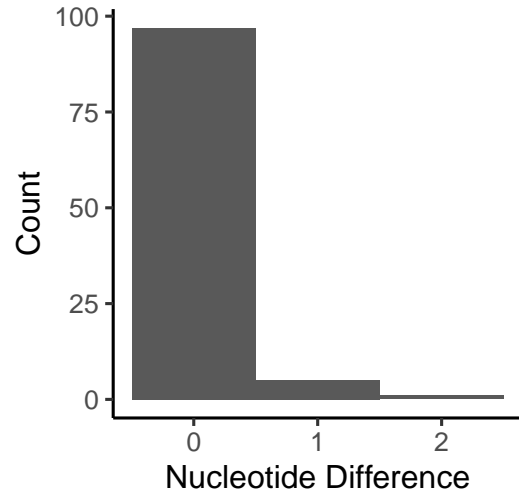
IGHV1-8*01

179 sequences assigned
161 (89.9%) exact matches, in which:
161 unique CDR3
6 unique J



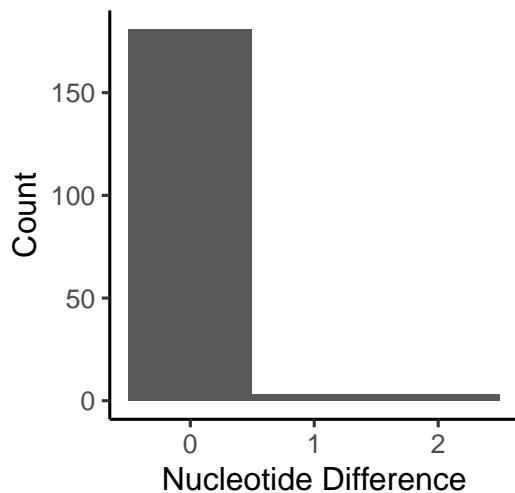
IGHV1-46*01

103 sequences assigned
97 (94.2%) exact matches, in which:
97 unique CDR3
6 unique J



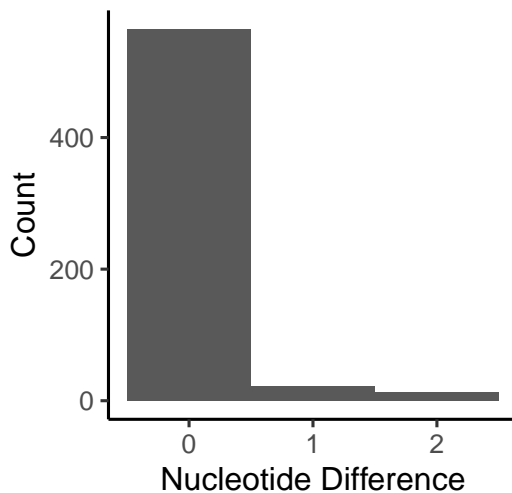
IGHV1-2*04

187 sequences assigned
181 (96.8%) exact matches, in which:
180 unique CDR3
6 unique J



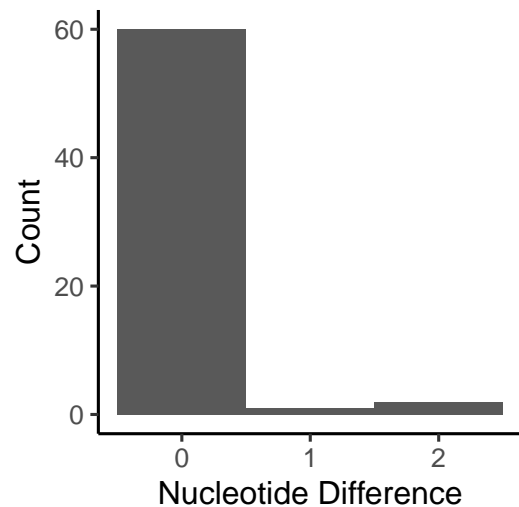
IGHV1-18*01

600 sequences assigned
565 (94.2%) exact matches, in which:
564 unique CDR3
7 unique J



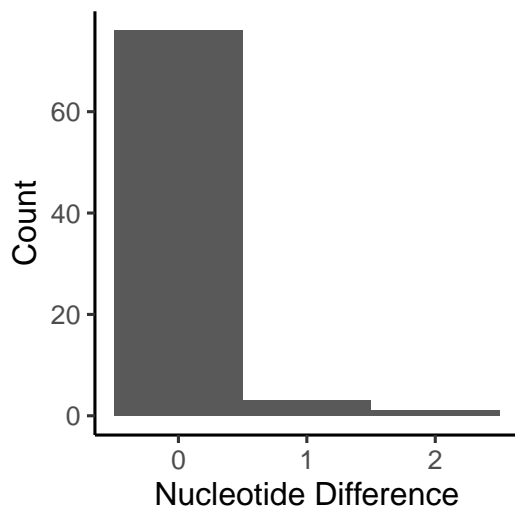
IGHV1-46*03

63 sequences assigned
60 (95.2%) exact matches, in which:
60 unique CDR3
5 unique J



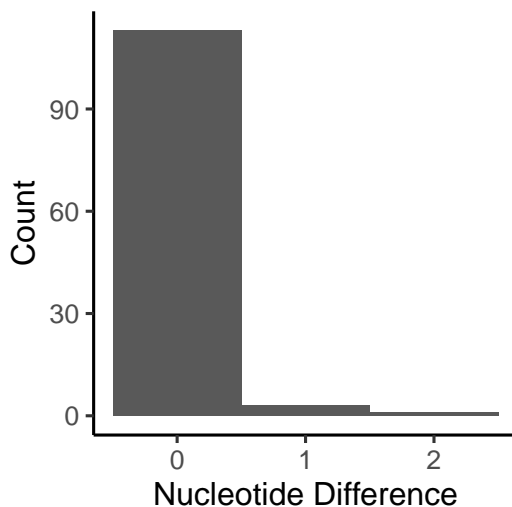
IGHV1-3*01_05

80 sequences assigned
76 (95%) exact matches, in which:
76 unique CDR3
4 unique J



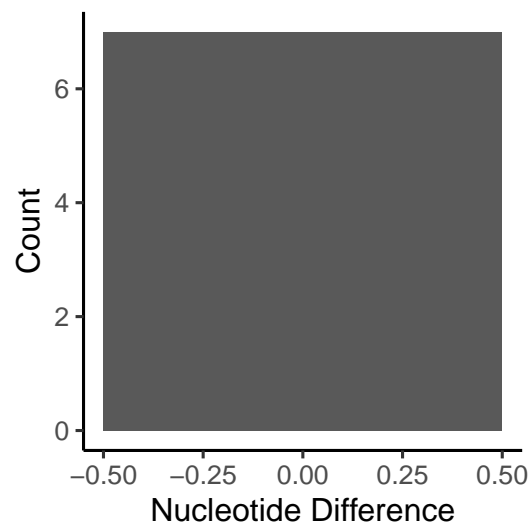
IGHV1-24*01

117 sequences assigned
113 (96.6%) exact matches, in which:
113 unique CDR3
7 unique J



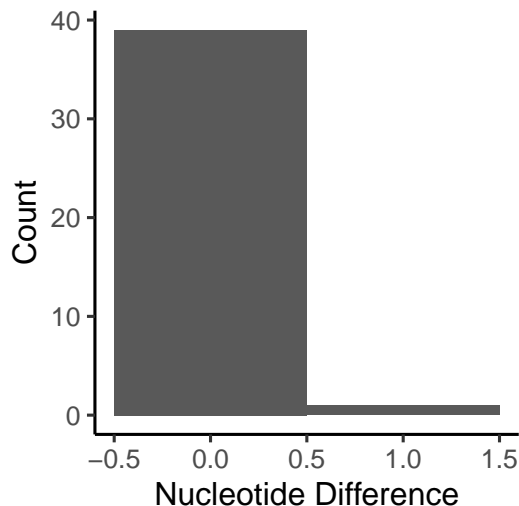
IGHV1-58*02

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
3 unique J



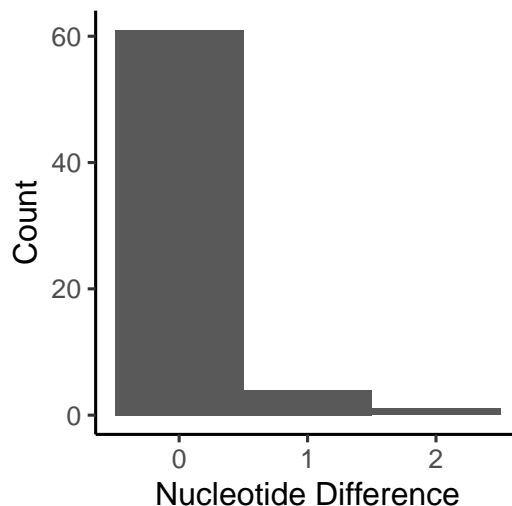
IGHV1–58*01_03

40 sequences assigned
39 (97.5%) exact matches, in which:
39 unique CDR3
4 unique J



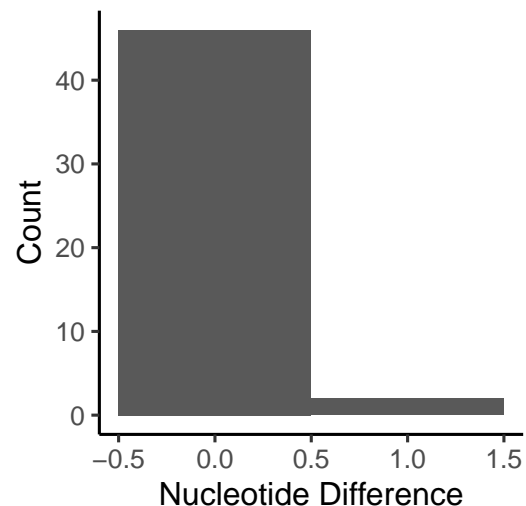
IGHV2–5*01

66 sequences assigned
61 (92.4%) exact matches, in which:
61 unique CDR3
5 unique J



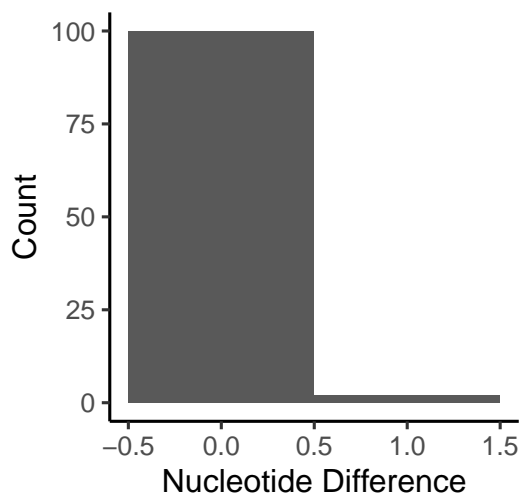
IGHV2–70*01

48 sequences assigned
46 (95.8%) exact matches, in which:
46 unique CDR3
5 unique J



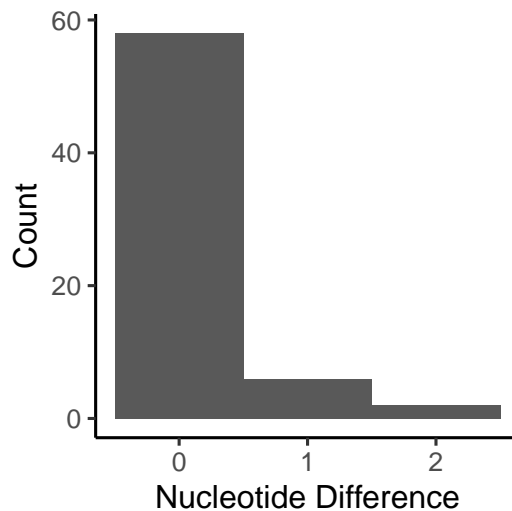
IGHV1–69*02

102 sequences assigned
100 (98%) exact matches, in which:
100 unique CDR3
5 unique J



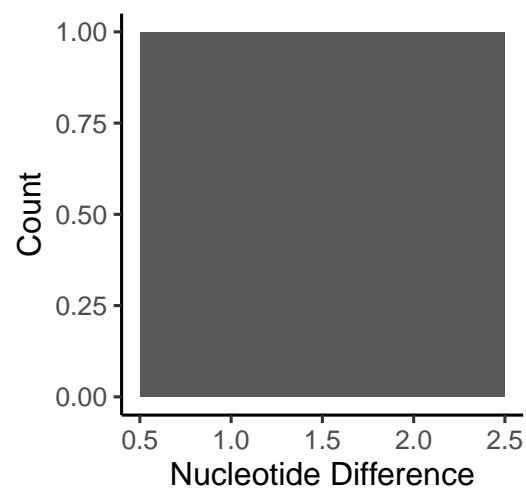
IGHV2–5*02

66 sequences assigned
58 (87.9%) exact matches, in which:
58 unique CDR3
5 unique J



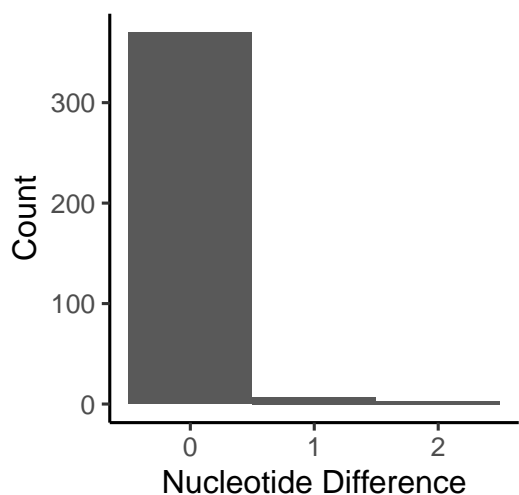
IGHV2–70D*04

2 sequences assigned
No exact matches.



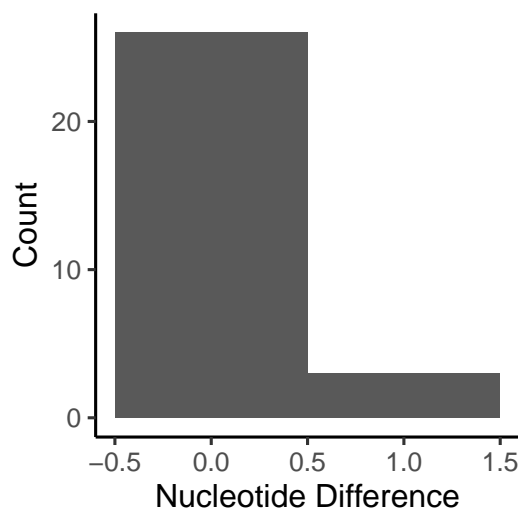
IGHV1–69*01_12_13

380 sequences assigned
370 (97.4%) exact matches, in which:
370 unique CDR3
6 unique J



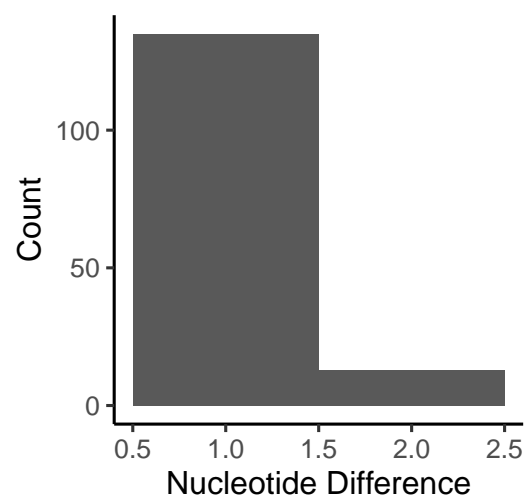
IGHV2–26*01

29 sequences assigned
26 (89.7%) exact matches, in which:
26 unique CDR3
6 unique J



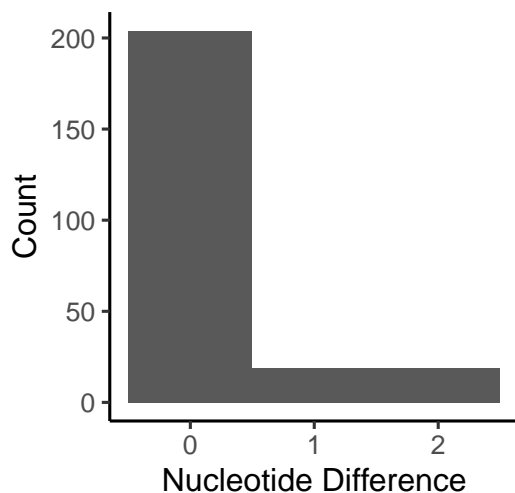
IGHV3–7*01

148 sequences assigned
No exact matches.



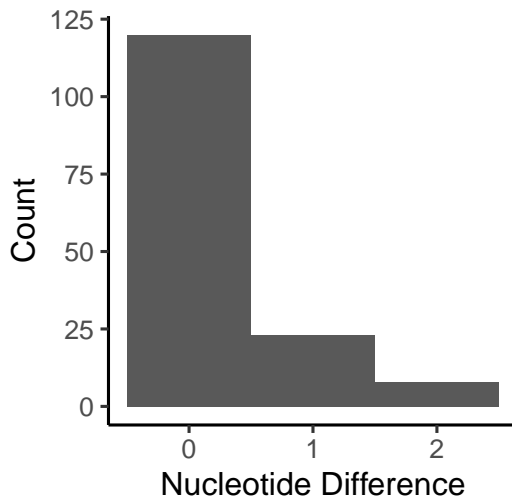
IGHV3-7*03

242 sequences assigned
204 (84.3%) exact matches, in which:
198 unique CDR3
6 unique J



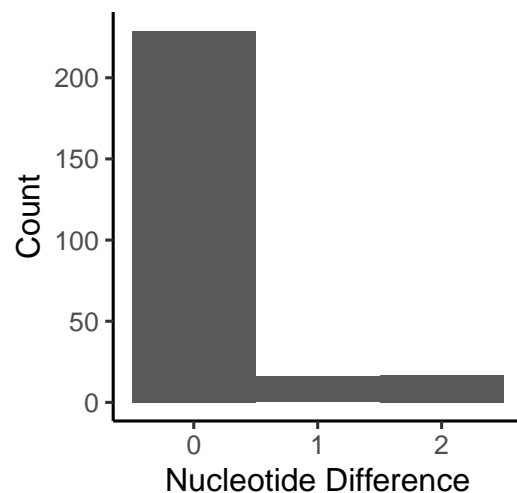
IGHV3-11*06_T300C

151 sequences assigned
120 (79.5%) exact matches, in which:
118 unique CDR3
6 unique J



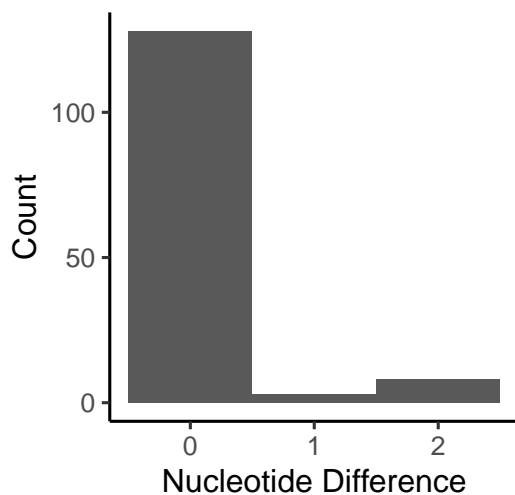
IGHV3-15*01_02

262 sequences assigned
229 (87.4%) exact matches, in which:
225 unique CDR3
7 unique J



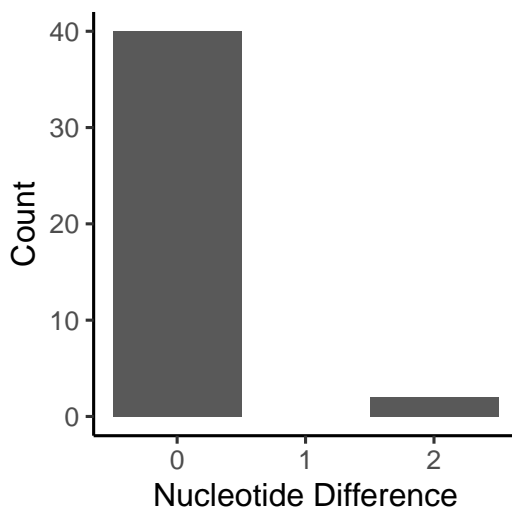
IGHV3-9*01

139 sequences assigned
128 (92.1%) exact matches, in which:
128 unique CDR3
6 unique J



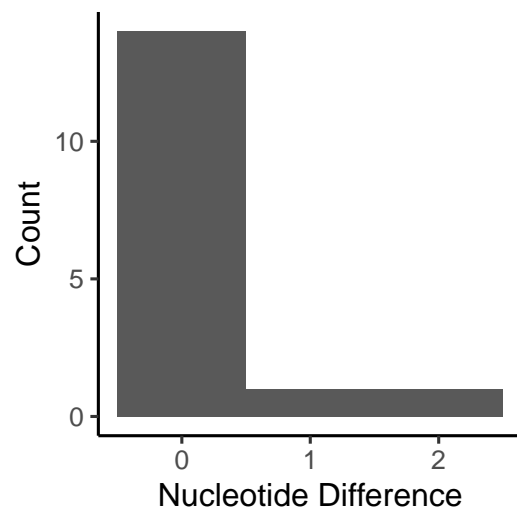
IGHV3-13*01

42 sequences assigned
40 (95.2%) exact matches, in which:
40 unique CDR3
5 unique J



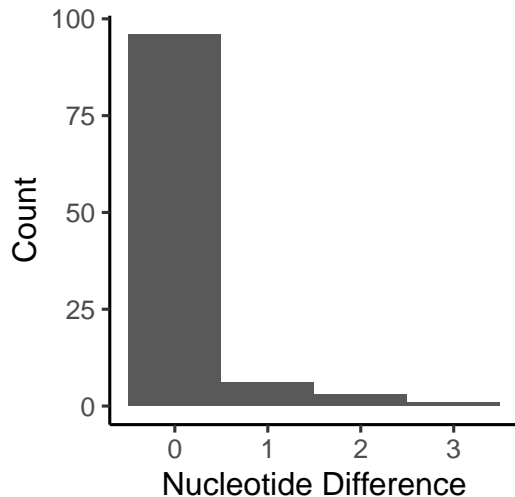
IGHV3-20*01_02

16 sequences assigned
14 (87.5%) exact matches, in which:
14 unique CDR3
5 unique J



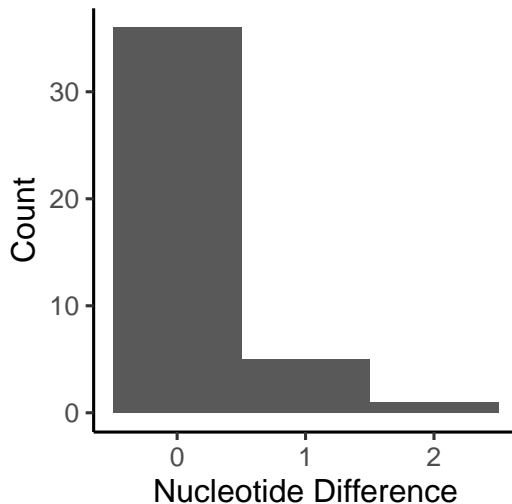
IGHV3-11*01

106 sequences assigned
96 (90.6%) exact matches, in which:
94 unique CDR3
5 unique J



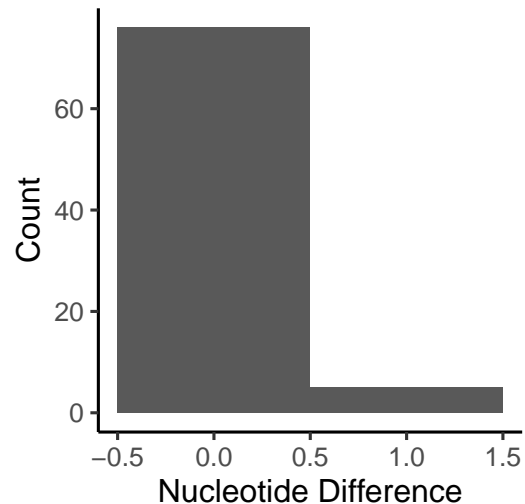
IGHV3-13*04

42 sequences assigned
36 (85.7%) exact matches, in which:
35 unique CDR3
5 unique J



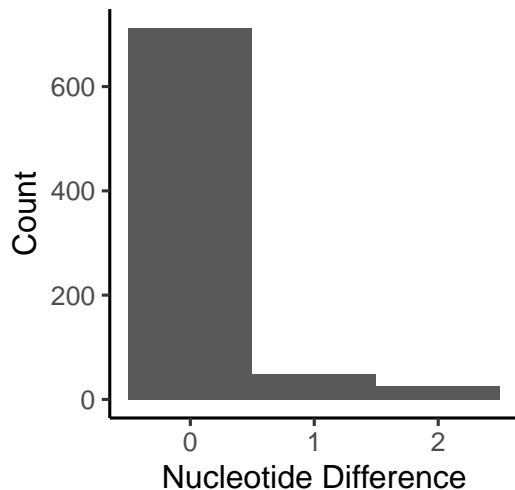
IGHV3-20*03_04

81 sequences assigned
76 (93.8%) exact matches, in which:
75 unique CDR3
5 unique J



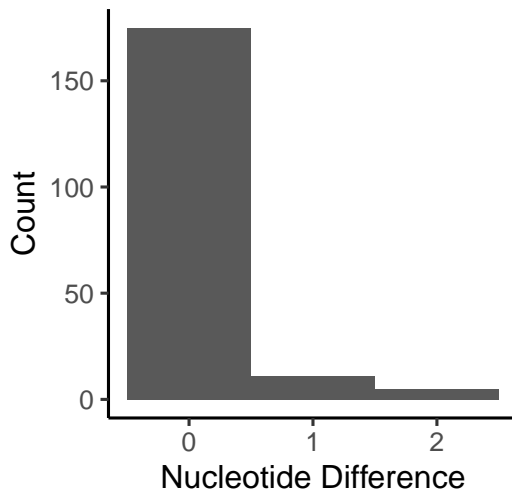
IGHV3-21*01_02

786 sequences assigned
713 (90.7%) exact matches, in which:
707 unique CDR3
7 unique J



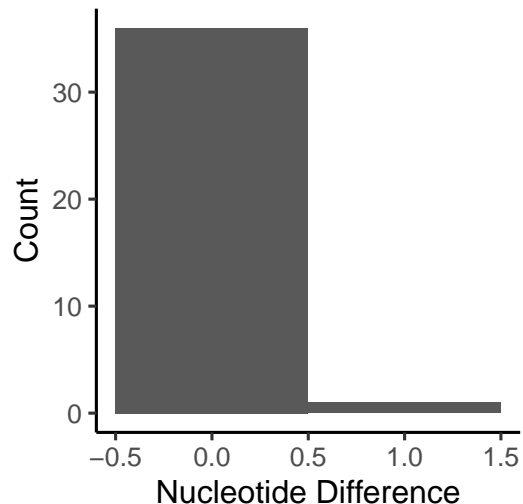
IGHV3-43*02

191 sequences assigned
175 (91.6%) exact matches, in which:
172 unique CDR3
6 unique J



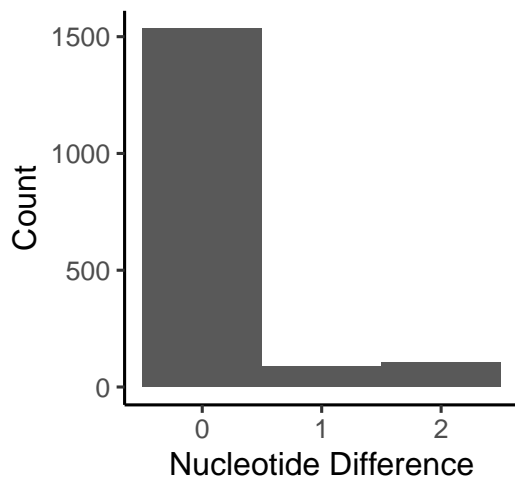
IGHV3-49*04

37 sequences assigned
36 (97.3%) exact matches, in which:
36 unique CDR3
4 unique J



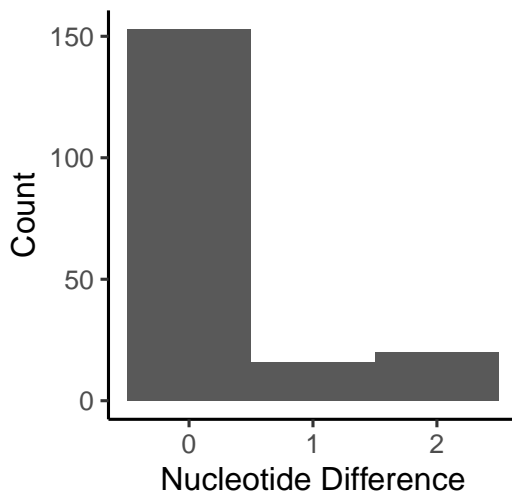
IGHV3-23*01_04

1727 sequences assigned
1534 (88.8%) exact matches, in which:
1512 unique CDR3
7 unique J



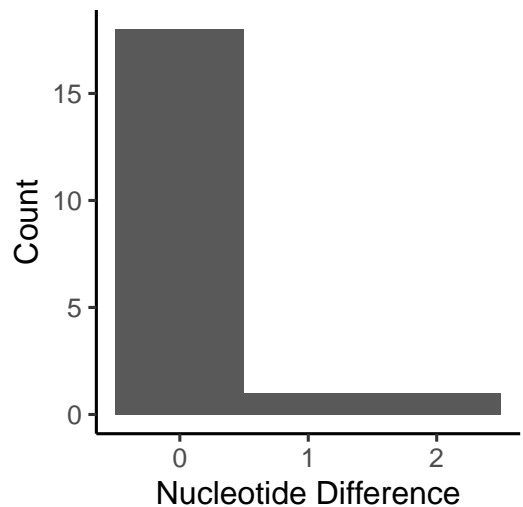
IGHV3-48*01

189 sequences assigned
153 (81%) exact matches, in which:
149 unique CDR3
6 unique J



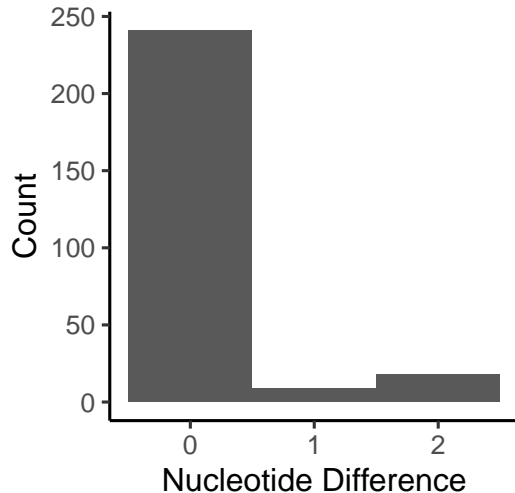
IGHV3-49*03_05

20 sequences assigned
18 (90%) exact matches, in which:
18 unique CDR3
4 unique J



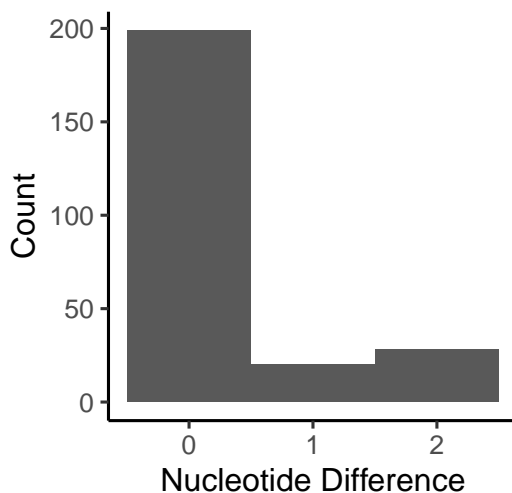
IGHV3-33*01

268 sequences assigned
241 (89.9%) exact matches, in which:
230 unique CDR3
6 unique J



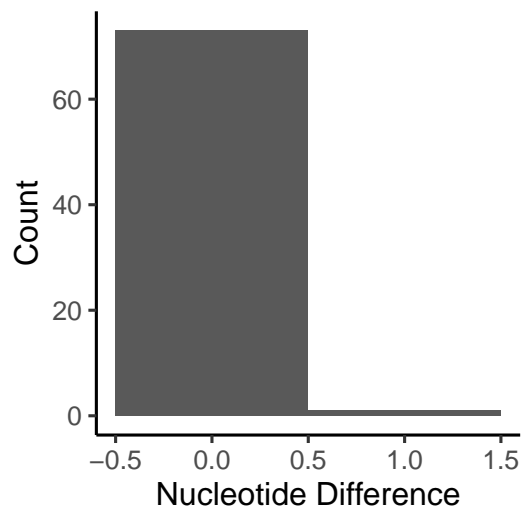
IGHV3-48*03

247 sequences assigned
199 (80.6%) exact matches, in which:
195 unique CDR3
6 unique J



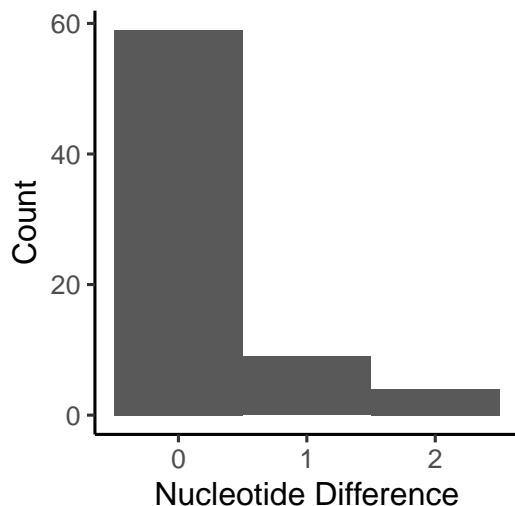
IGHV3-53*04

74 sequences assigned
73 (98.6%) exact matches, in which:
72 unique CDR3
6 unique J



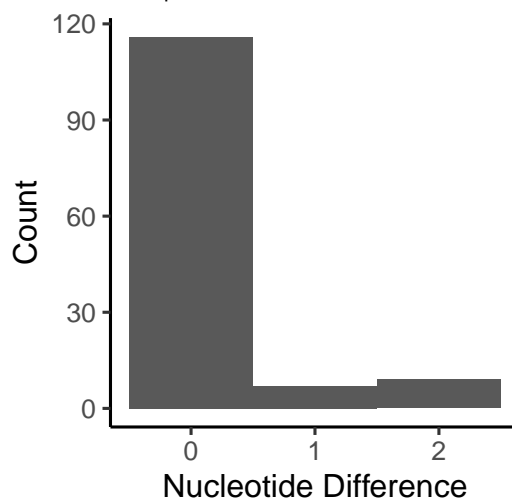
IGHV3-53*01_02

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



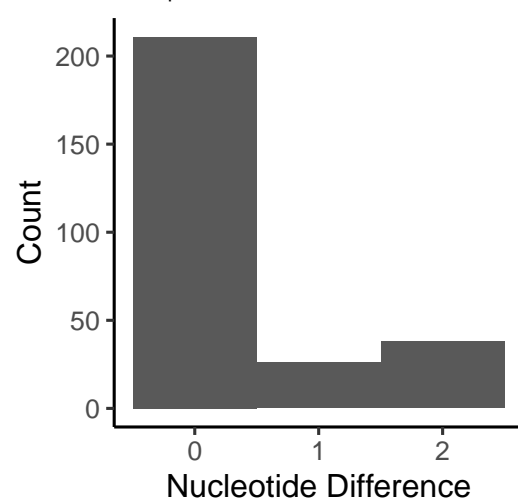
IGHV3-66*02

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



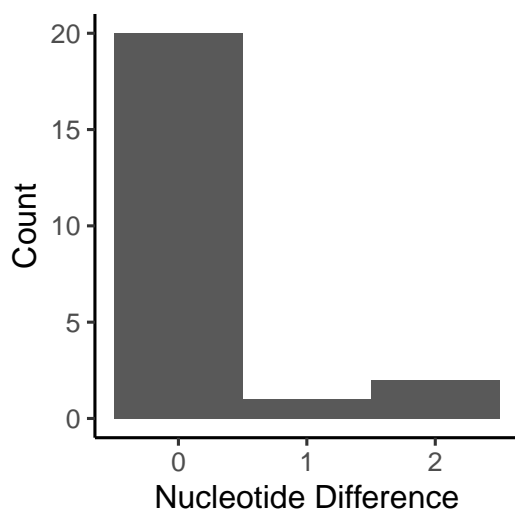
IGHV3-74*01_02

275 sequences assigned
211 (76.7%) exact matches, in which:
204 unique CDR3
7 unique J



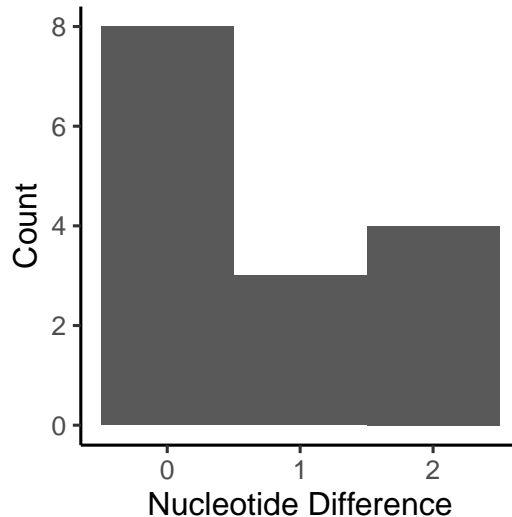
IGHV3-64*01

23 sequences assigned
20 (87%) exact matches, in which:
20 unique CDR3
5 unique J



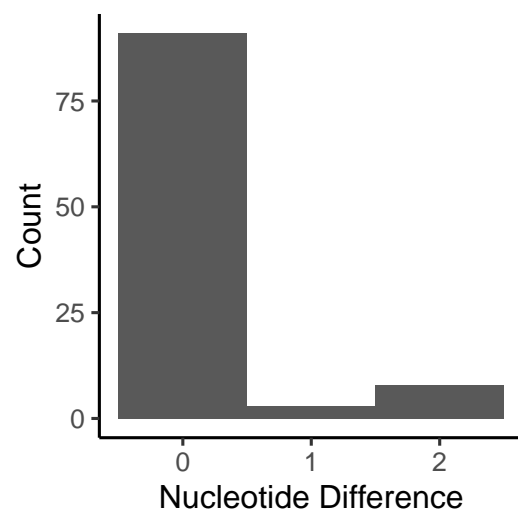
IGHV3-72*01

15 sequences assigned
8 (53.3%) exact matches, in which:
8 unique CDR3
4 unique J



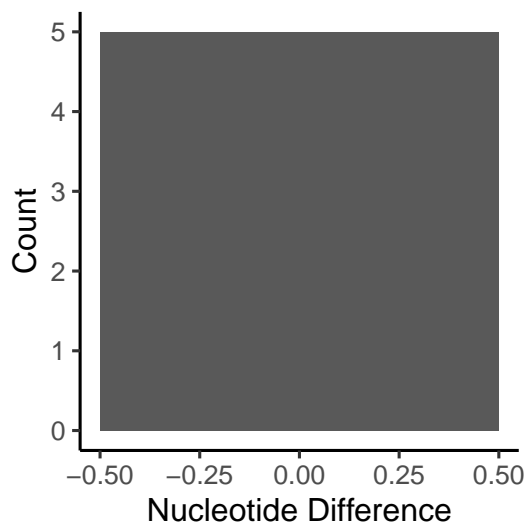
IGHV3-64D*06

102 sequences assigned
91 (89.2%) exact matches, in which:
87 unique CDR3
5 unique J



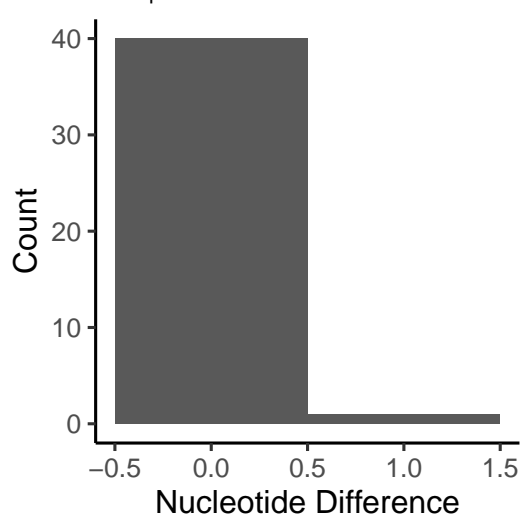
IGHV3-64*02_07

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



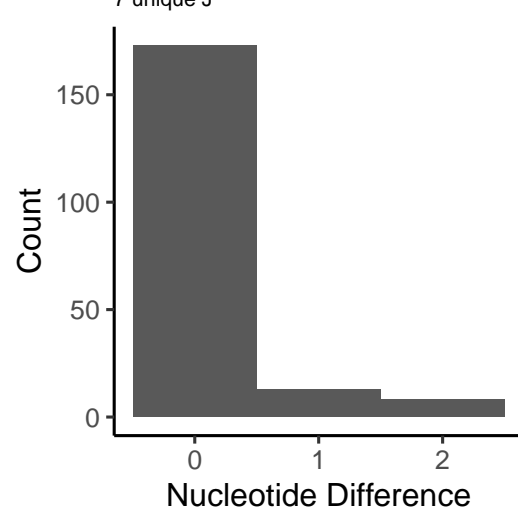
IGHV3-73*01_02

41 sequences assigned
40 (97.6%) exact matches, in which:
39 unique CDR3
6 unique J



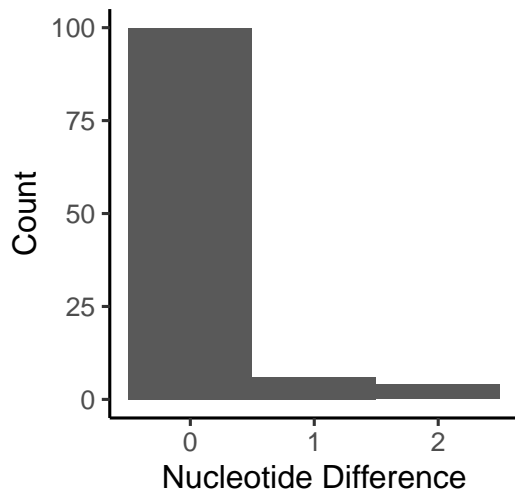
IGHV4-4*07

194 sequences assigned
173 (89.2%) exact matches, in which:
173 unique CDR3
7 unique J



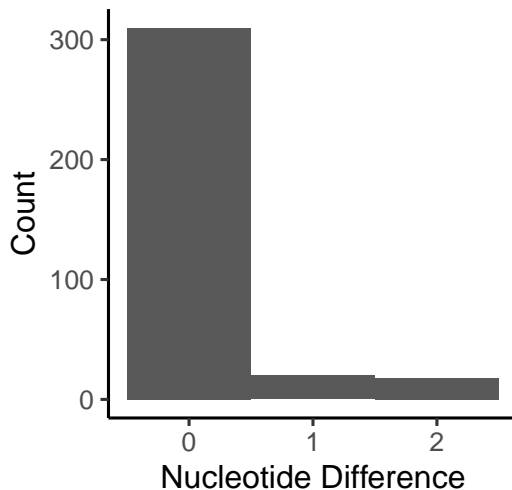
IGHV4-4*02_03

110 sequences assigned
100 (90.9%) exact matches, in which:
100 unique CDR3
6 unique J



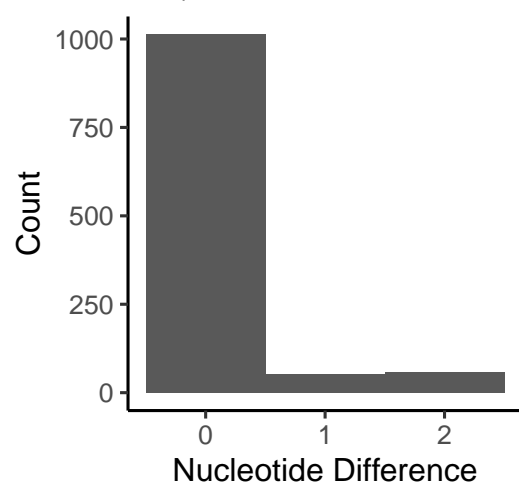
IGHV4-31*02

348 sequences assigned
310 (89.1%) exact matches, in which:
309 unique CDR3
6 unique J



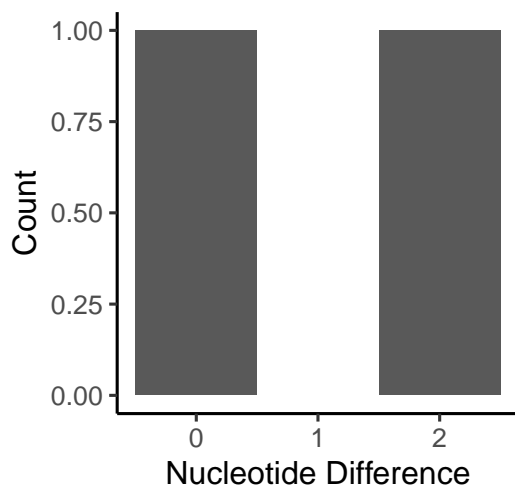
IGHV4-39*02_C258G

1124 sequences assigned
1013 (90.1%) exact matches, in which:
1003 unique CDR3
7 unique J



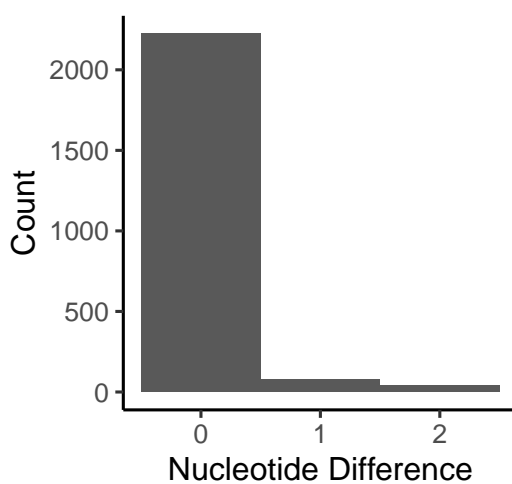
IGHV4-28*01_07

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



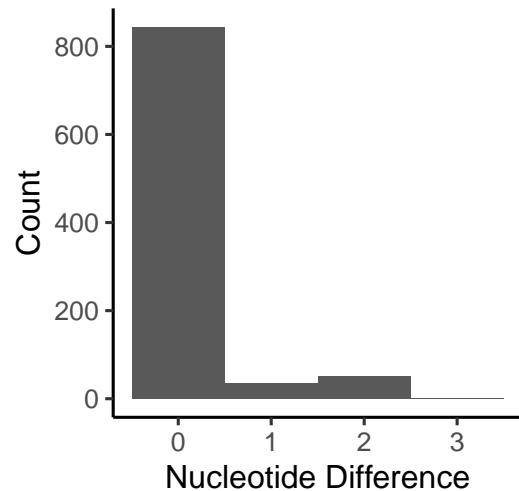
IGHV4-34*01_02

2346 sequences assigned
2224 (94.8%) exact matches, in which:
2205 unique CDR3
7 unique J



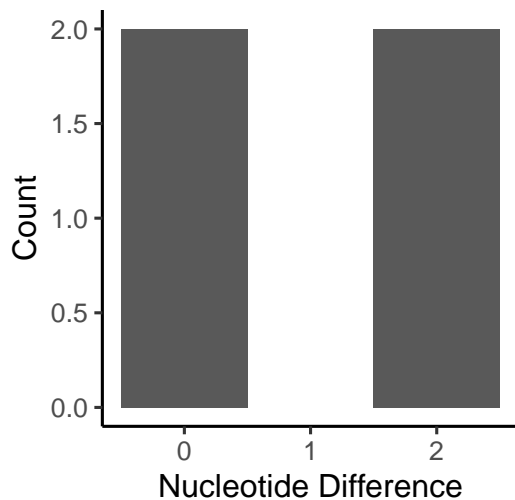
IGHV4-59*02_G88A

931 sequences assigned
844 (90.7%) exact matches, in which:
838 unique CDR3
7 unique J



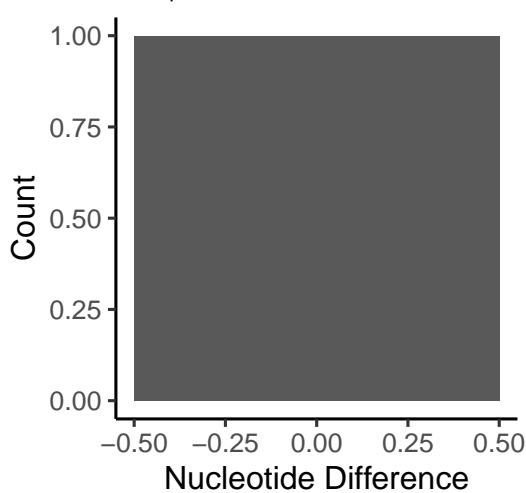
IGHV4-28*02_05

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



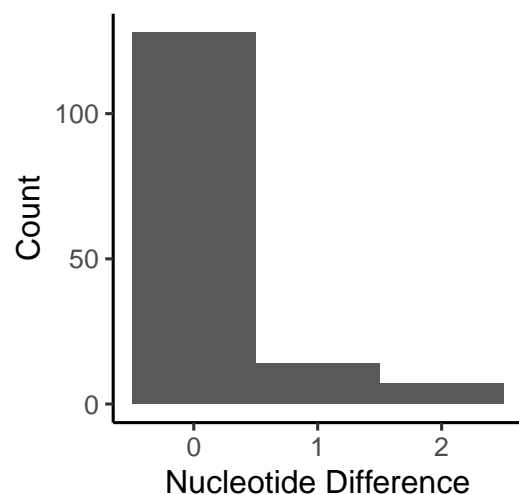
IGHV4-38-2*02

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



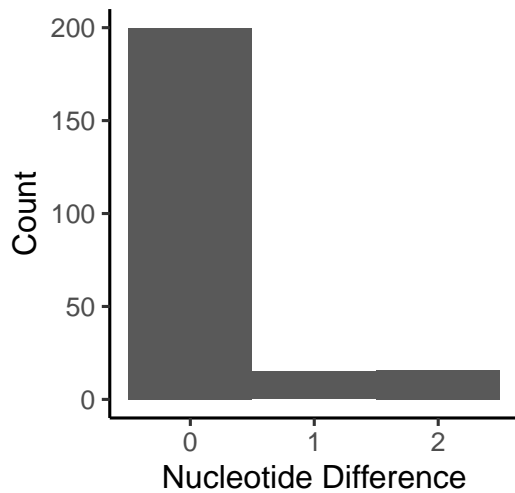
IGHV4-61*01

149 sequences assigned
128 (85.9%) exact matches, in which:
127 unique CDR3
6 unique J



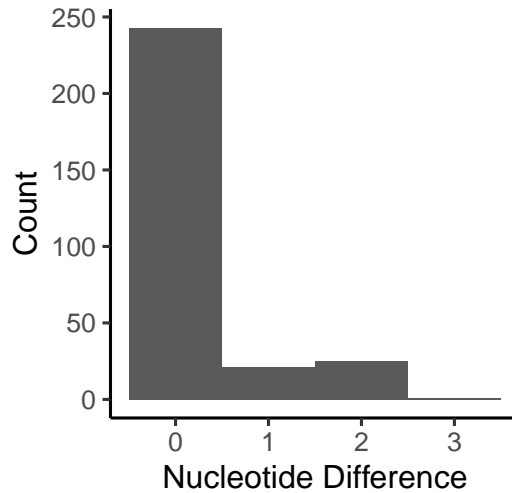
IGHV4–61*02

231 sequences assigned
200 (86.6%) exact matches, in which:
197 unique CDR3
5 unique J



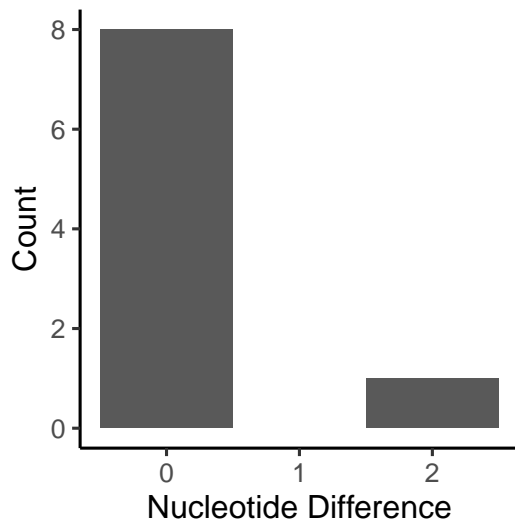
IGHV6–1*01_02

290 sequences assigned
243 (83.8%) exact matches, in which:
243 unique CDR3
6 unique J



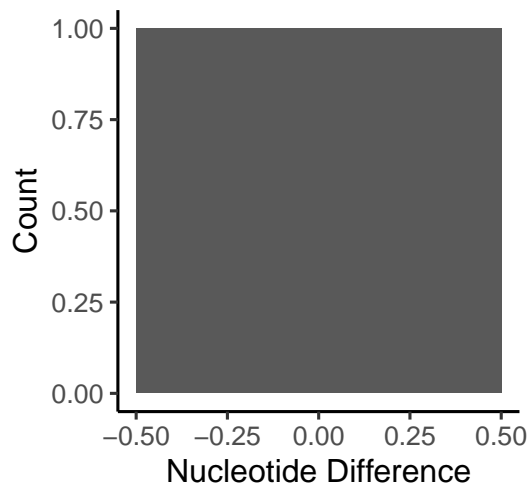
IGHV5–10–1*01_03

9 sequences assigned
8 (88.9%) exact matches, in which:
8 unique CDR3
4 unique J



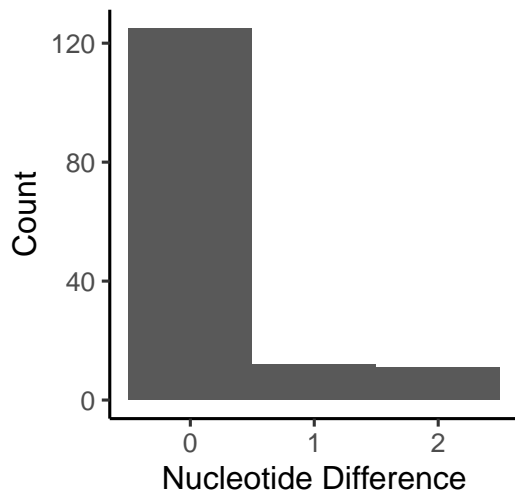
IGHV7–4–1*01

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

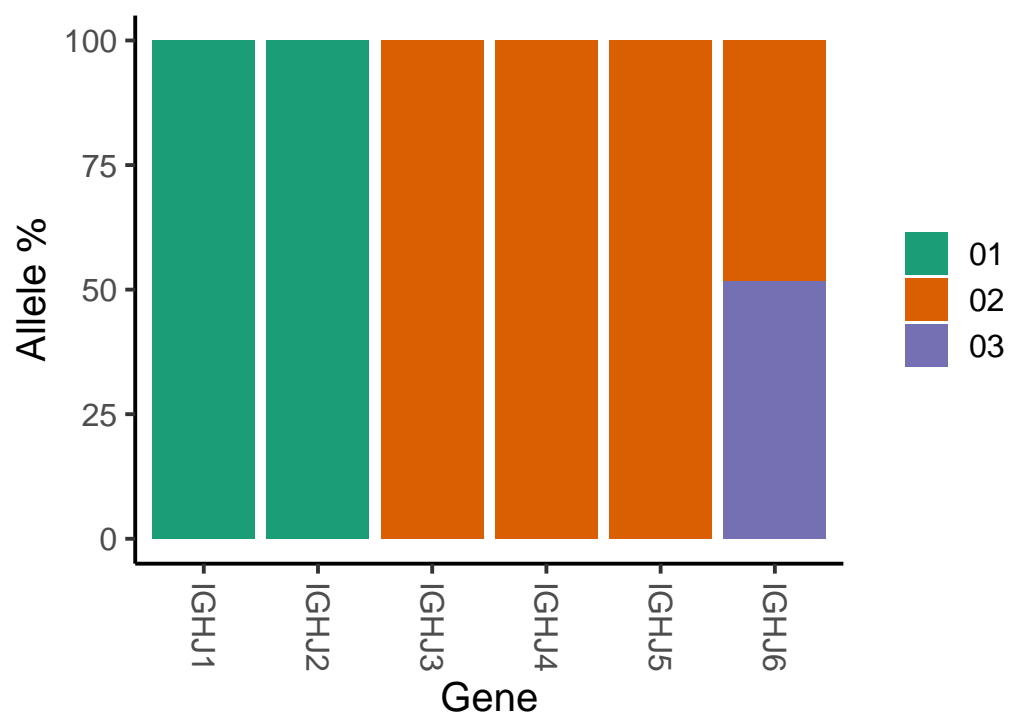


IGHV5–51*07_A128G

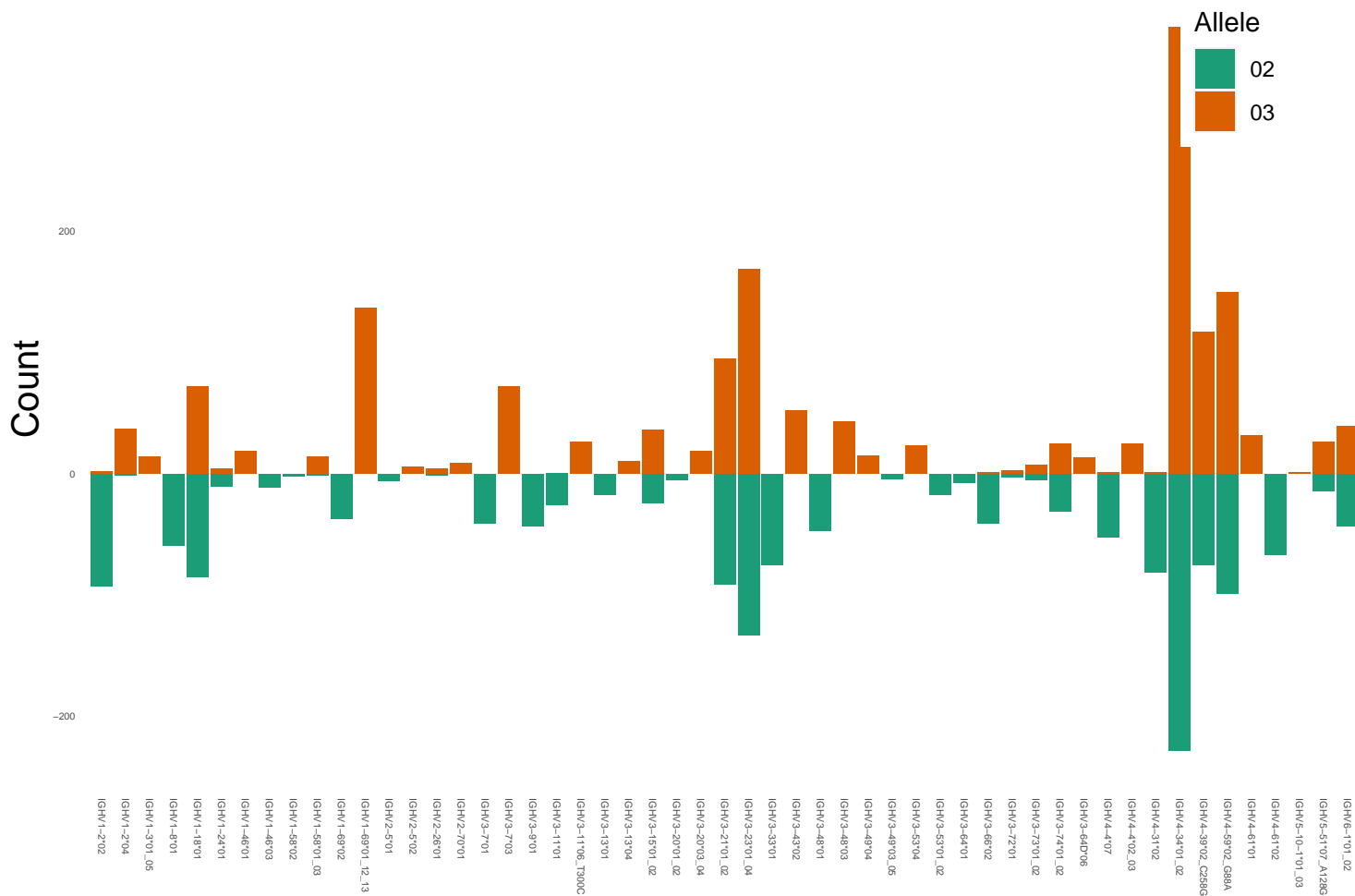
148 sequences assigned
125 (84.5%) exact matches, in which:
125 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.