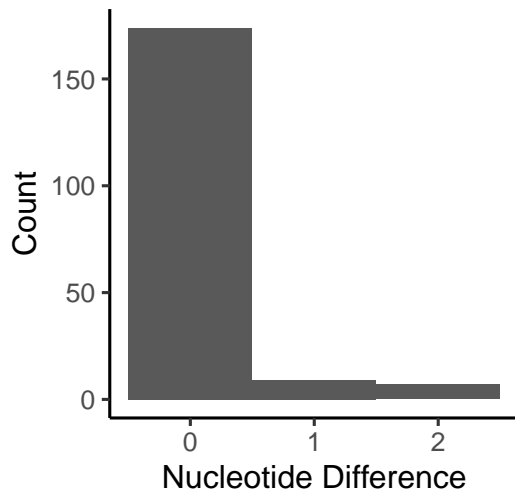


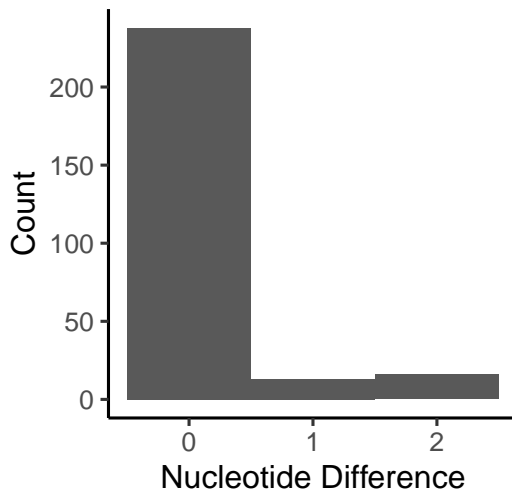
IGHV1-2*02

190 sequences assigned
174 (91.6%) exact matches, in which:
174 unique CDR3
6 unique J



IGHV1-8*01

267 sequences assigned
238 (89.1%) exact matches, in which:
237 unique CDR3
6 unique J



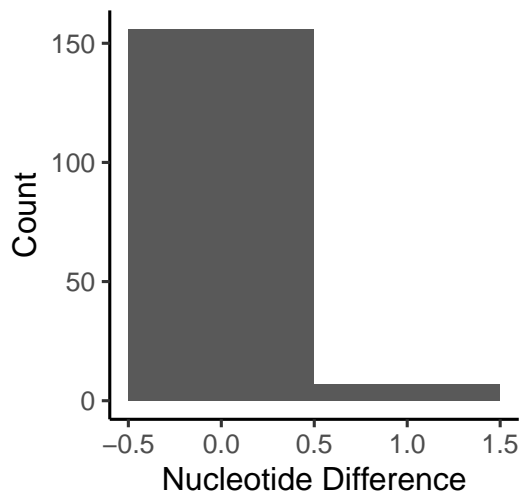
IGHV1-45*02

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



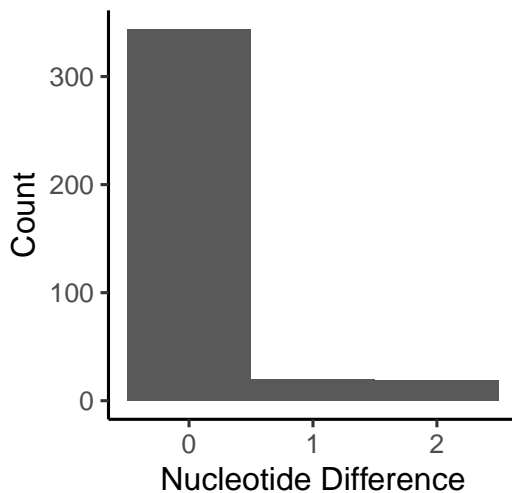
IGHV1-2*06

163 sequences assigned
156 (95.7%) exact matches, in which:
156 unique CDR3
6 unique J



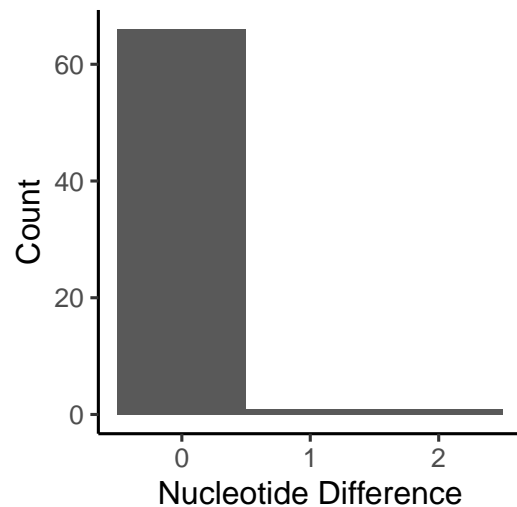
IGHV1-18*01

383 sequences assigned
344 (89.8%) exact matches, in which:
344 unique CDR3
7 unique J



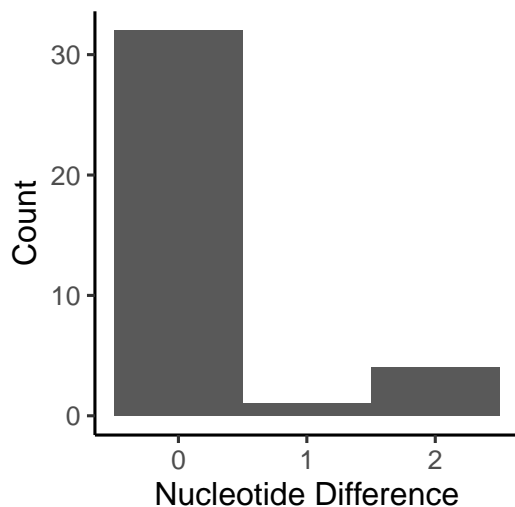
IGHV1-46*01

68 sequences assigned
66 (97.1%) exact matches, in which:
65 unique CDR3
6 unique J



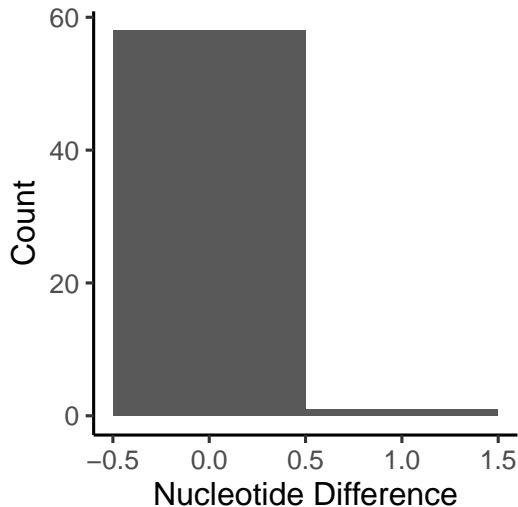
IGHV1-3*01_05

37 sequences assigned
32 (86.5%) exact matches, in which:
31 unique CDR3
4 unique J



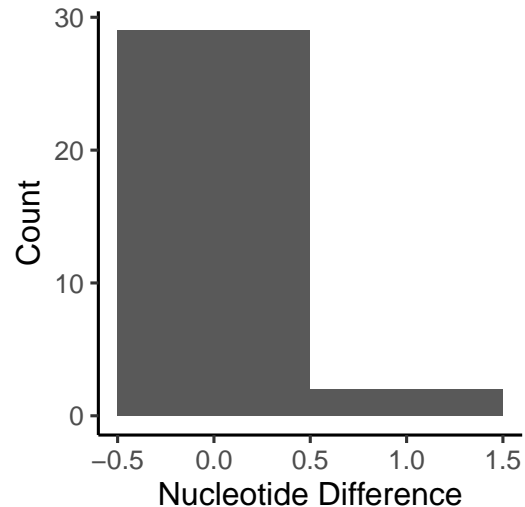
IGHV1-24*01

59 sequences assigned
58 (98.3%) exact matches, in which:
58 unique CDR3
7 unique J



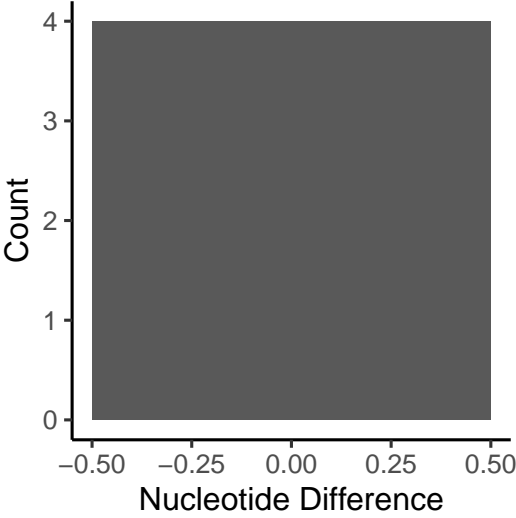
IGHV1-46*03

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



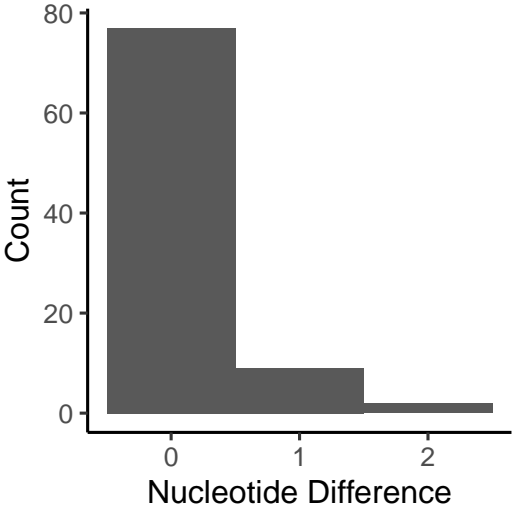
IGHV1–58*02

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



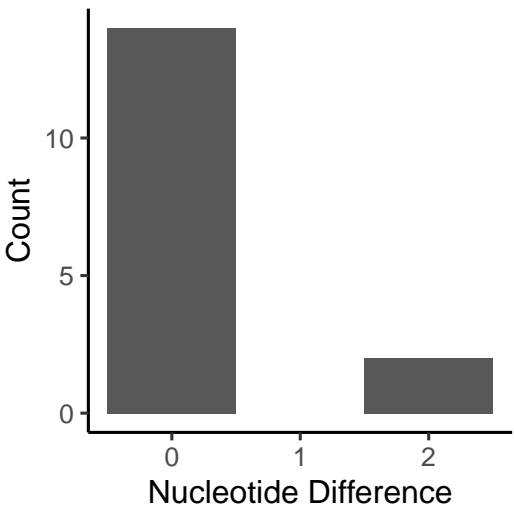
IGHV1–69*04_09

88 sequences assigned
77 (87.5%) exact matches, in which:
77 unique CDR3
6 unique J



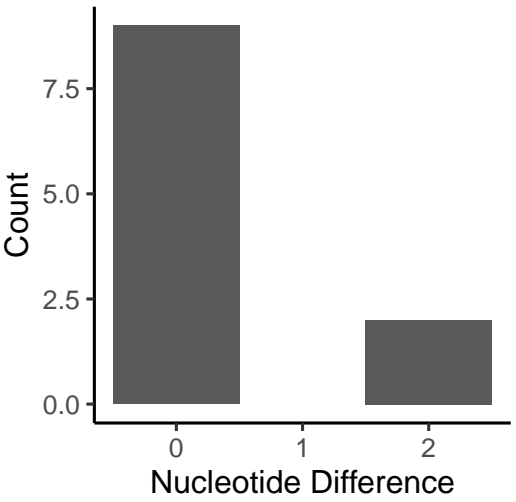
IGHV2–26*01

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



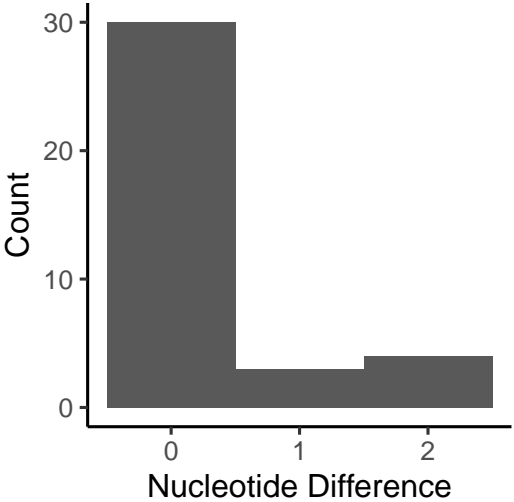
IGHV1–58*01_03

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



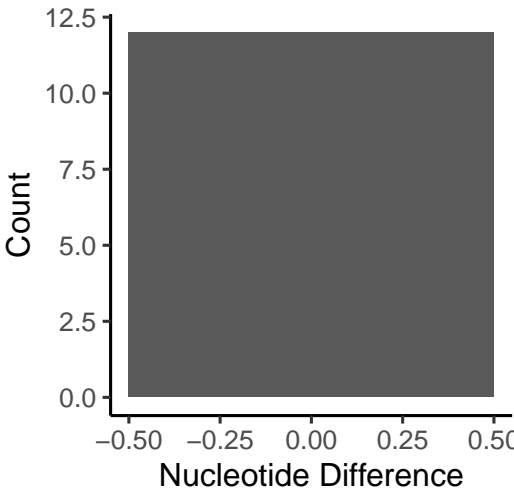
IGHV2–5*01

37 sequences assigned
30 (81.1%) exact matches, in which:
30 unique CDR3
5 unique J



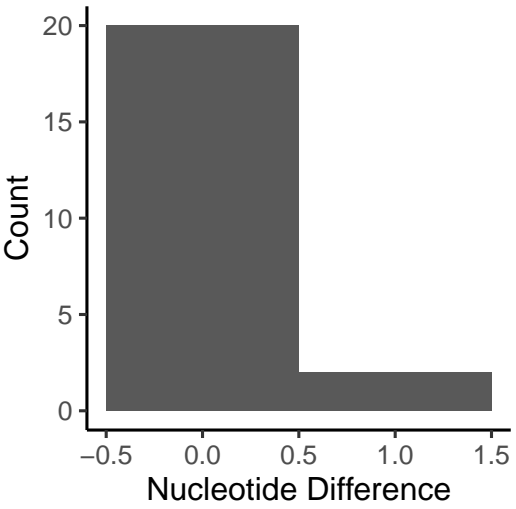
IGHV2–70*01

12 sequences assigned
12 (100%) exact matches, in which:
11 unique CDR3
3 unique J



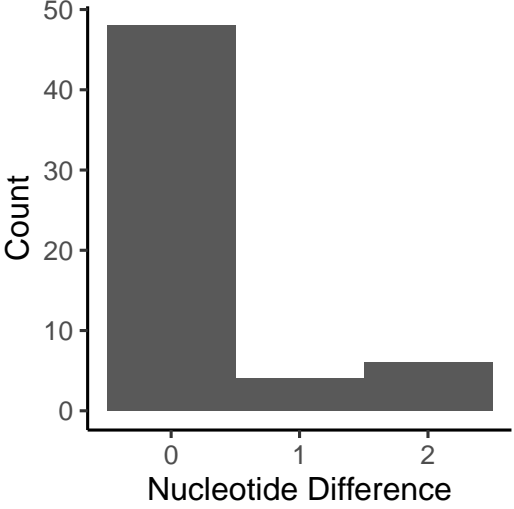
IGHV1–69*02

22 sequences assigned
20 (90.9%) exact matches, in which:
20 unique CDR3
6 unique J



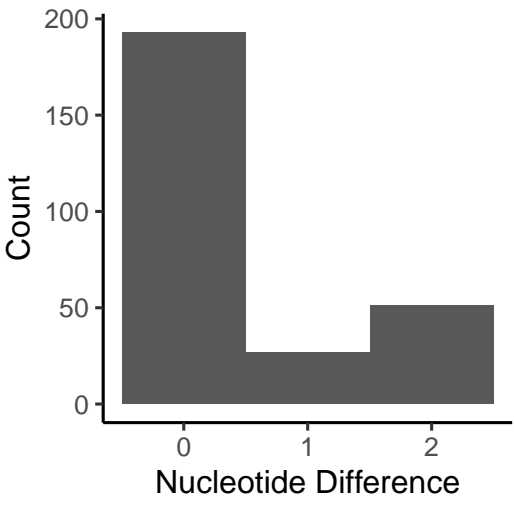
IGHV2–5*02

58 sequences assigned
48 (82.8%) exact matches, in which:
48 unique CDR3
6 unique J



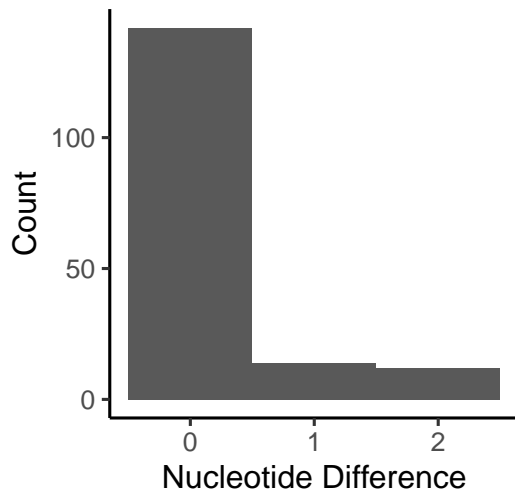
IGHV3–7*01

271 sequences assigned
193 (71.2%) exact matches, in which:
188 unique CDR3
7 unique J



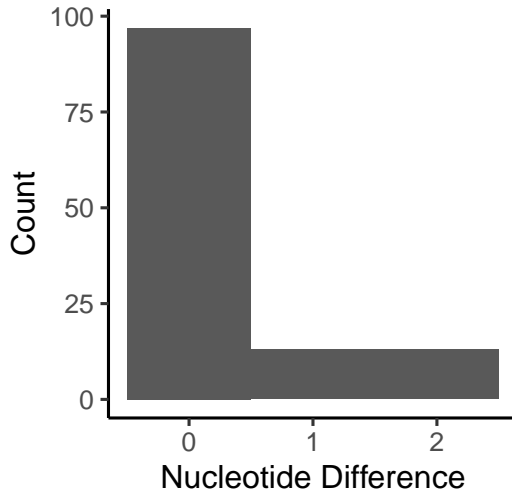
IGHV3-9*01

168 sequences assigned
142 (84.5%) exact matches, in which:
139 unique CDR3
7 unique J



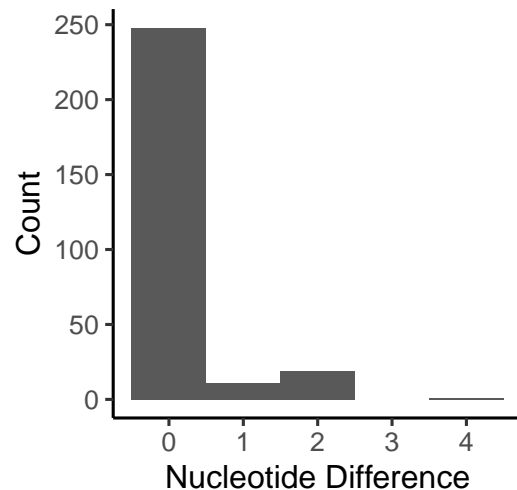
IGHV3-15*01_02

123 sequences assigned
97 (78.9%) exact matches, in which:
96 unique CDR3
7 unique J



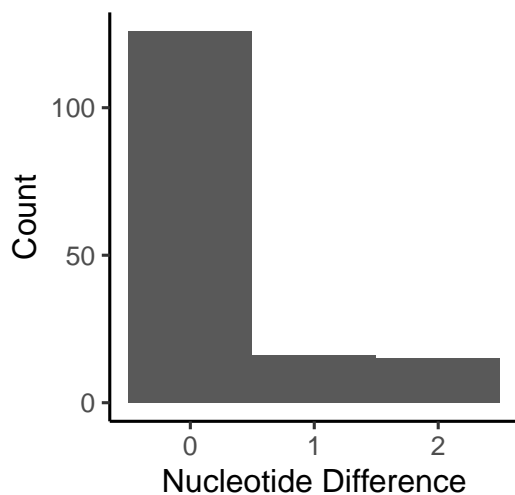
IGHV3-30-3*01

279 sequences assigned
248 (88.9%) exact matches, in which:
248 unique CDR3
7 unique J



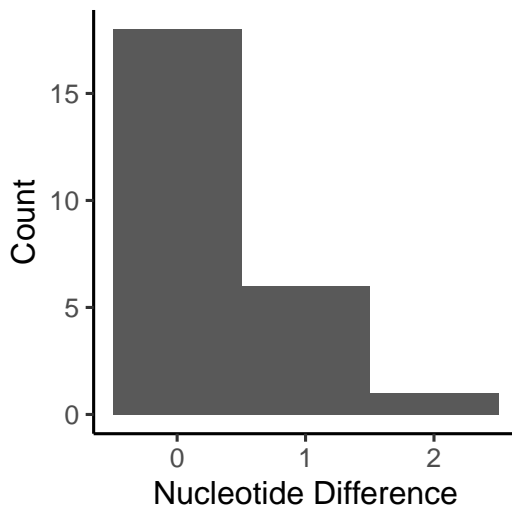
IGHV3-11*01

157 sequences assigned
126 (80.3%) exact matches, in which:
125 unique CDR3
7 unique J



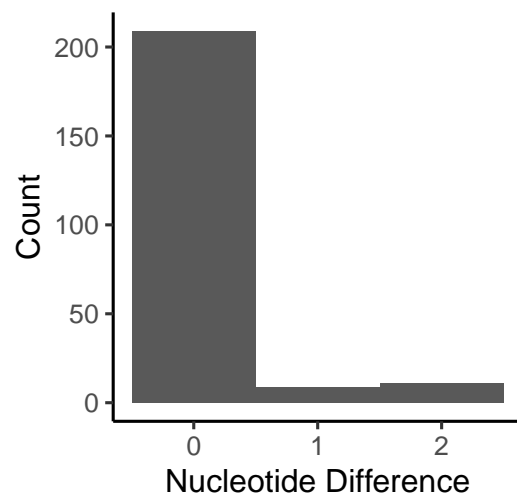
IGHV3-20*01_02

25 sequences assigned
18 (72%) exact matches, in which:
18 unique CDR3
6 unique J



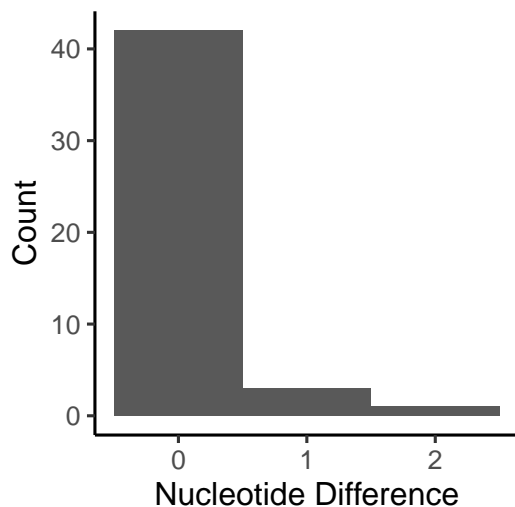
IGHV3-33*01

229 sequences assigned
209 (91.3%) exact matches, in which:
205 unique CDR3
7 unique J



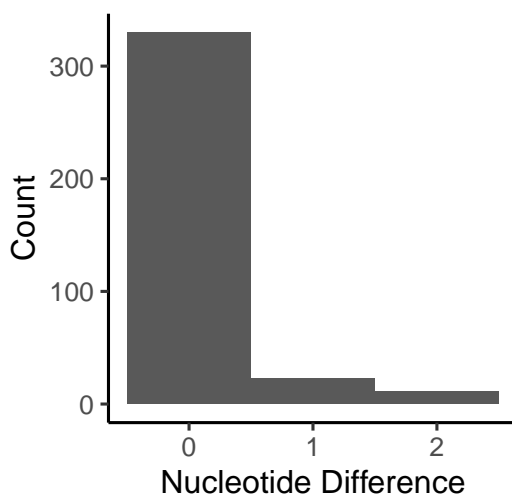
IGHV3-13*01

46 sequences assigned
42 (91.3%) exact matches, in which:
41 unique CDR3
6 unique J



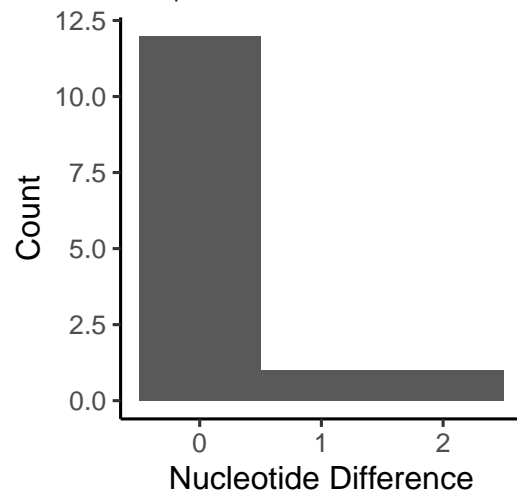
IGHV3-21*01_02

364 sequences assigned
330 (90.7%) exact matches, in which:
325 unique CDR3
7 unique J



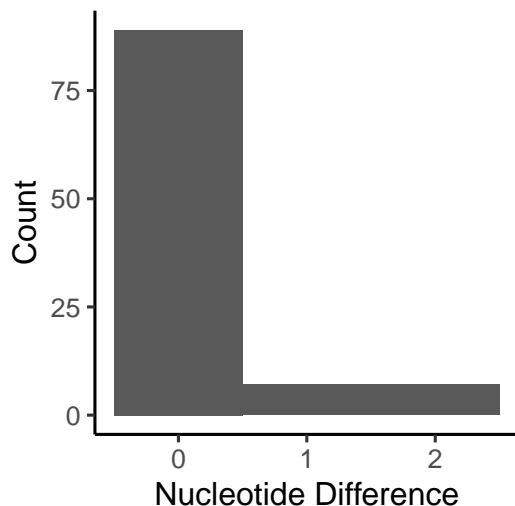
IGHV3-43*01

14 sequences assigned
12 (85.7%) exact matches, in which:
12 unique CDR3
4 unique J



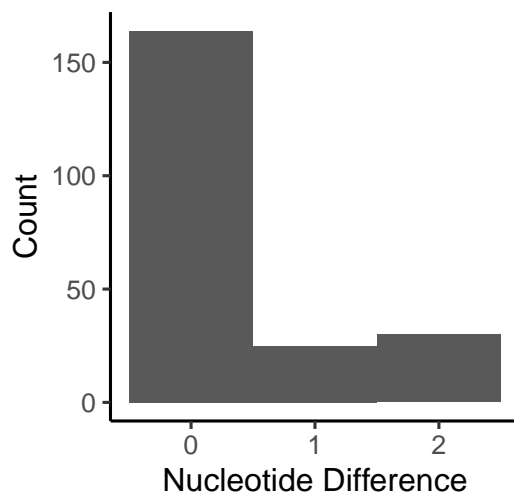
IGHV3-48*01

103 sequences assigned
89 (86.4%) exact matches, in which:
87 unique CDR3
6 unique J



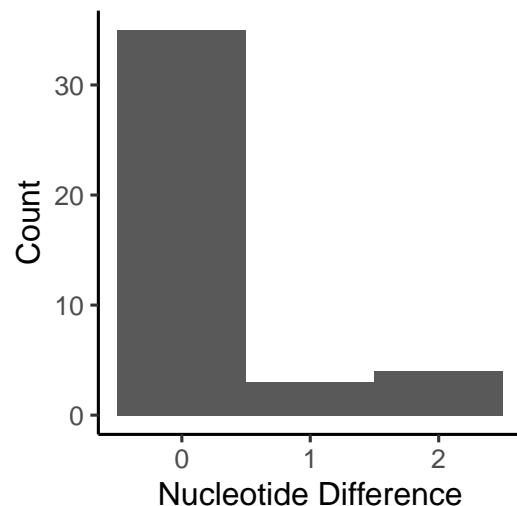
IGHV3-53*01_02

219 sequences assigned
164 (74.9%) exact matches, in which:
159 unique CDR3
6 unique J



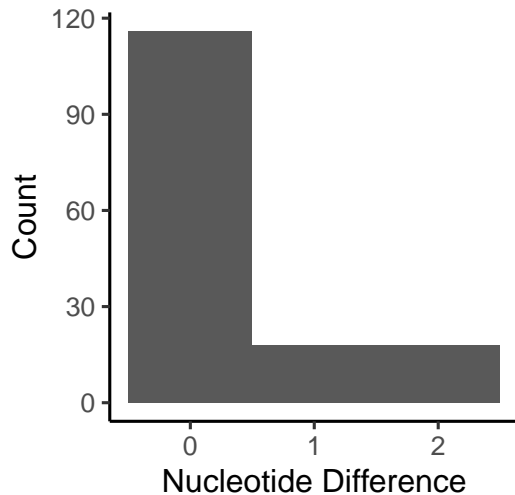
IGHV3-66*02

42 sequences assigned
35 (83.3%) exact matches, in which:
34 unique CDR3
4 unique J



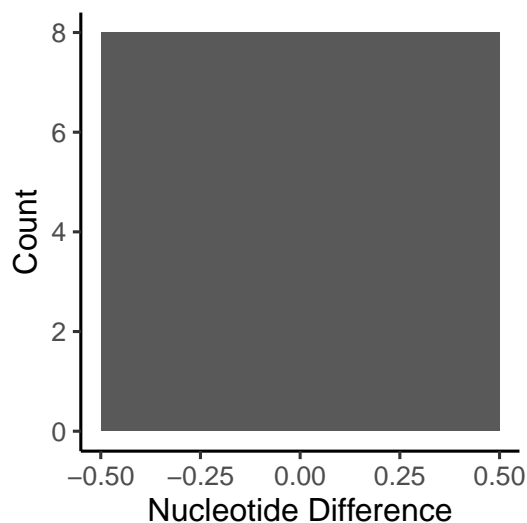
IGHV3-48*02

152 sequences assigned
116 (76.3%) exact matches, in which:
108 unique CDR3
5 unique J



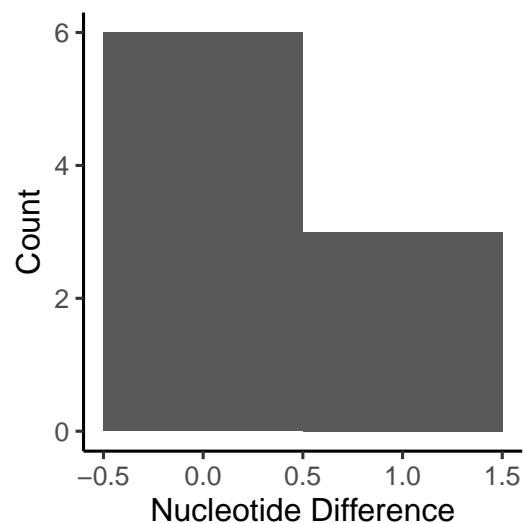
IGHV3-64*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
3 unique J



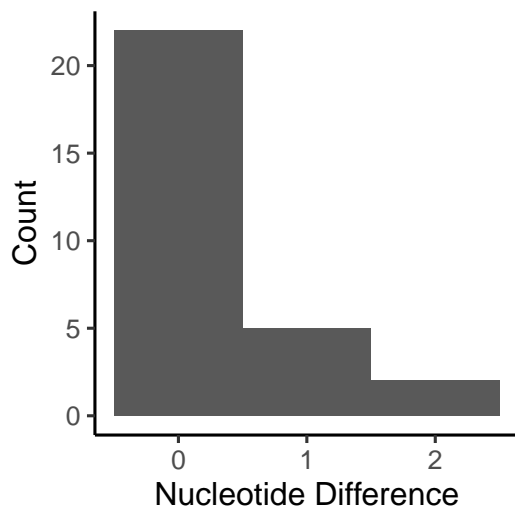
IGHV3-72*01

9 sequences assigned
6 (66.7%) exact matches, in which:
6 unique CDR3
3 unique J



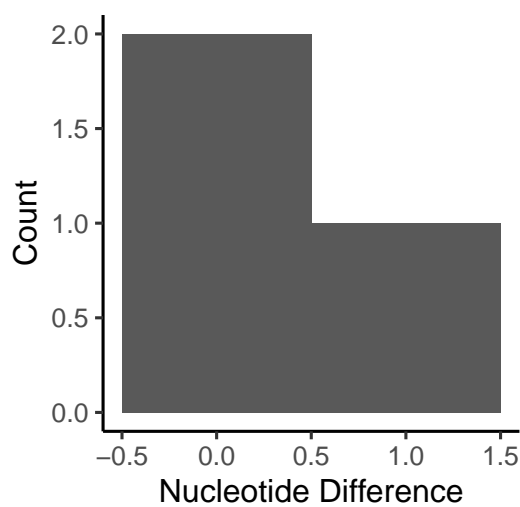
IGHV3-49*03_05

29 sequences assigned
22 (75.9%) exact matches, in which:
22 unique CDR3
4 unique J



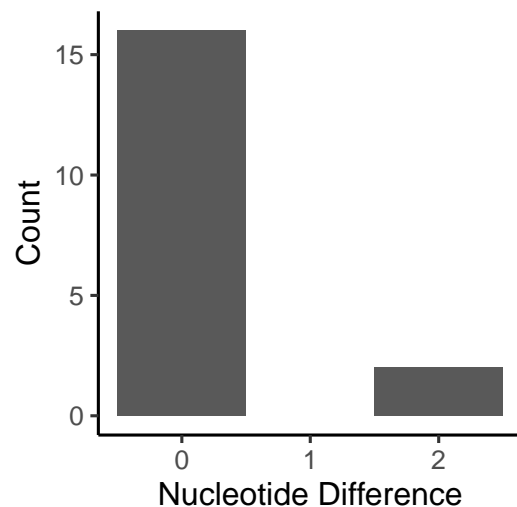
IGHV3-64*02_07

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



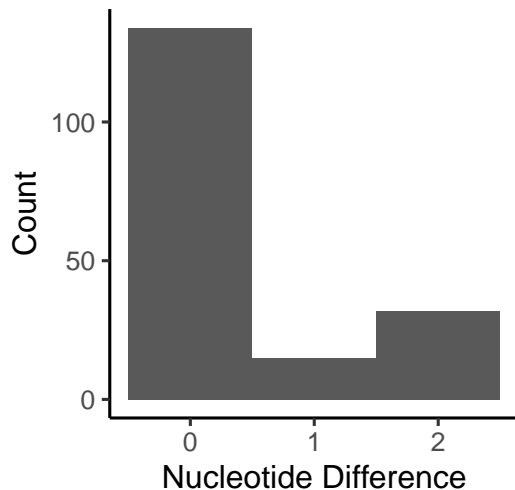
IGHV3-73*01_02

18 sequences assigned
16 (88.9%) exact matches, in which:
16 unique CDR3
3 unique J



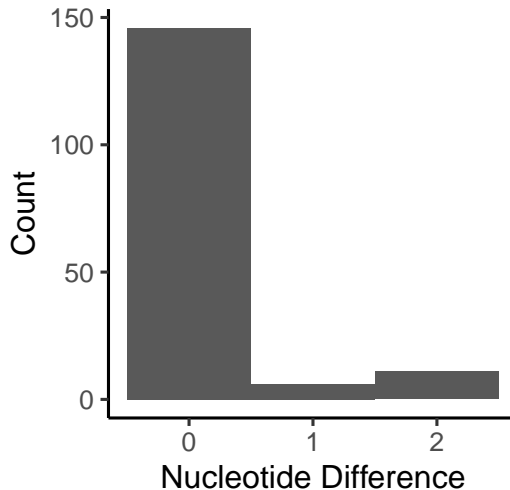
IGHV3-74*01_02

181 sequences assigned
134 (74%) exact matches, in which:
128 unique CDR3
7 unique J



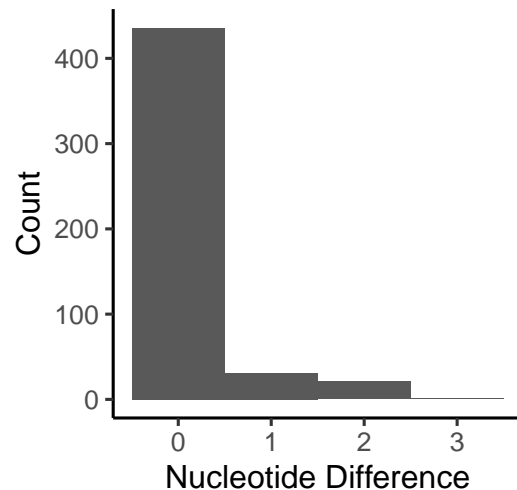
IGHV4-30-4*01

163 sequences assigned
146 (89.6%) exact matches, in which:
144 unique CDR3
7 unique J



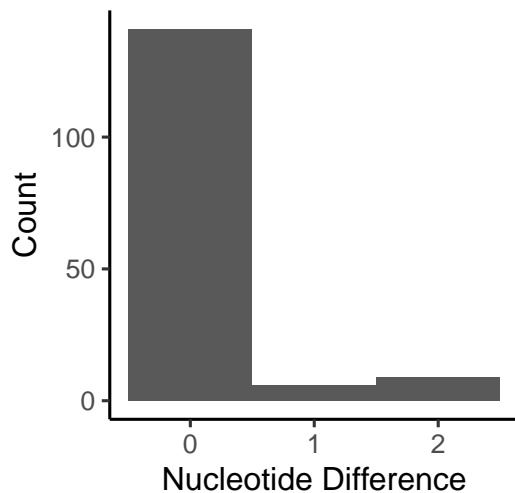
IGHV4-34*01_02

489 sequences assigned
436 (89.2%) exact matches, in which:
436 unique CDR3
7 unique J



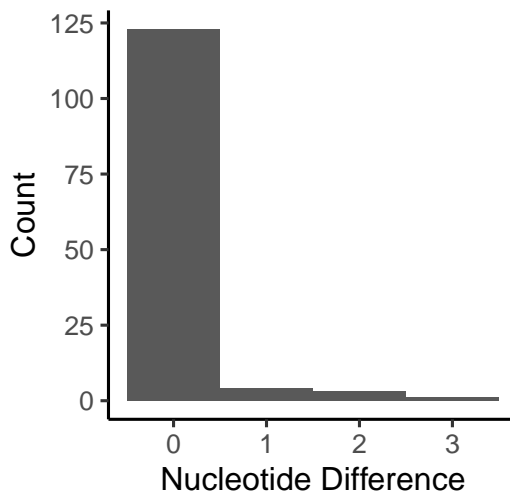
IGHV4-4*07

156 sequences assigned
141 (90.4%) exact matches, in which:
139 unique CDR3
6 unique J



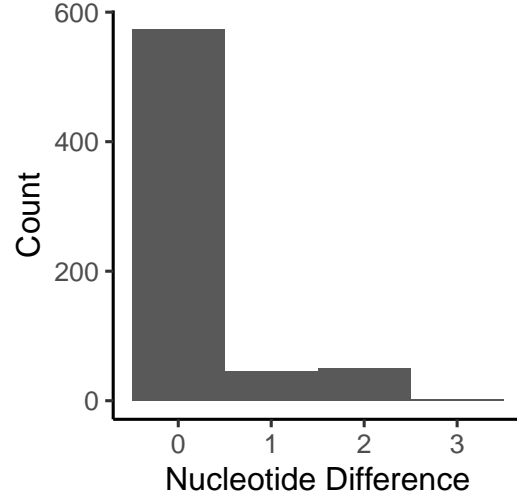
IGHV4-30-2*01

131 sequences assigned
123 (93.9%) exact matches, in which:
122 unique CDR3
6 unique J



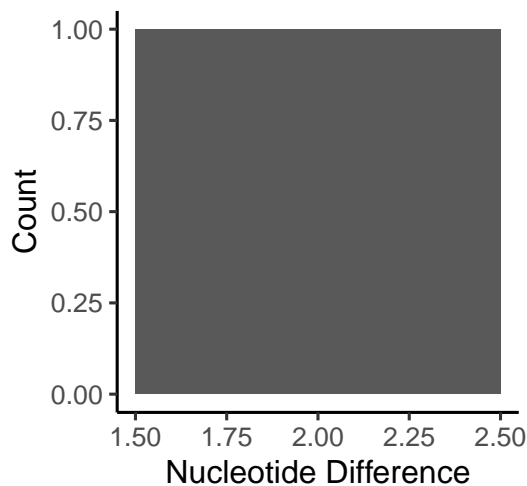
IGHV4-39*01_05

671 sequences assigned
574 (85.5%) exact matches, in which:
564 unique CDR3
7 unique J



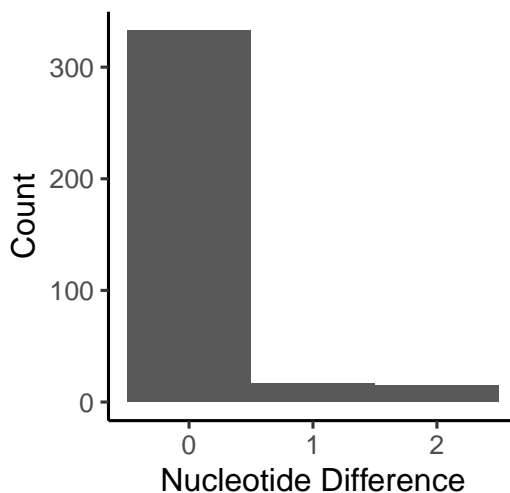
IGHV4-28*01_07

1 sequences assigned
No exact matches.



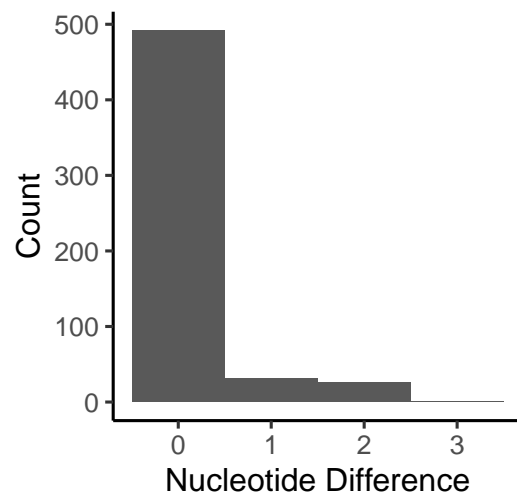
IGHV4-31*03_04

365 sequences assigned
333 (91.2%) exact matches, in which:
332 unique CDR3
7 unique J



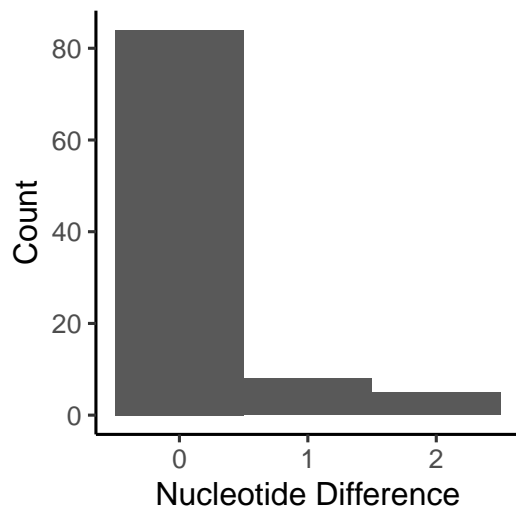
IGHV4-59*01_07

550 sequences assigned
492 (89.5%) exact matches, in which:
486 unique CDR3
7 unique J



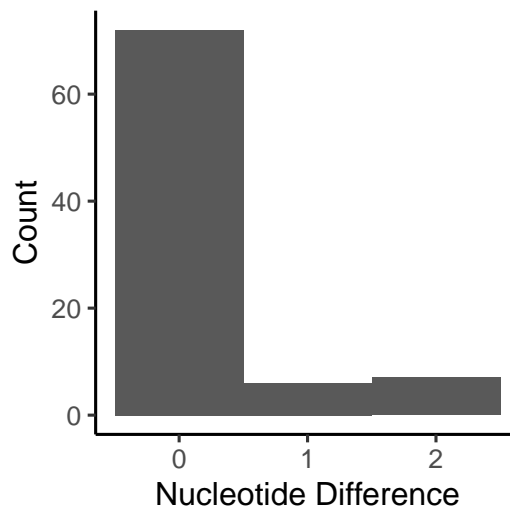
IGHV4-61*01

97 sequences assigned
84 (86.6%) exact matches, in which:
81 unique CDR3
5 unique J



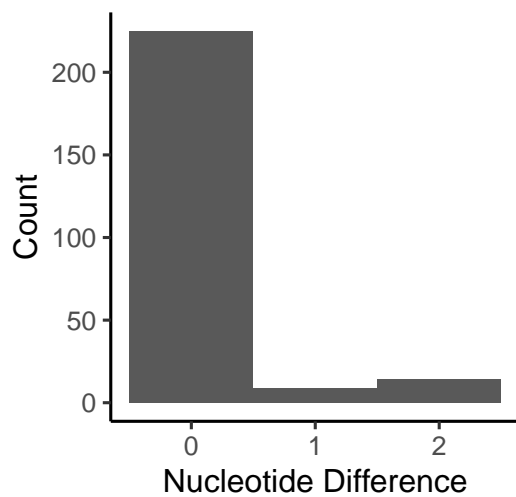
IGHV6-1*01_02

85 sequences assigned
72 (84.7%) exact matches, in which:
72 unique CDR3
6 unique J



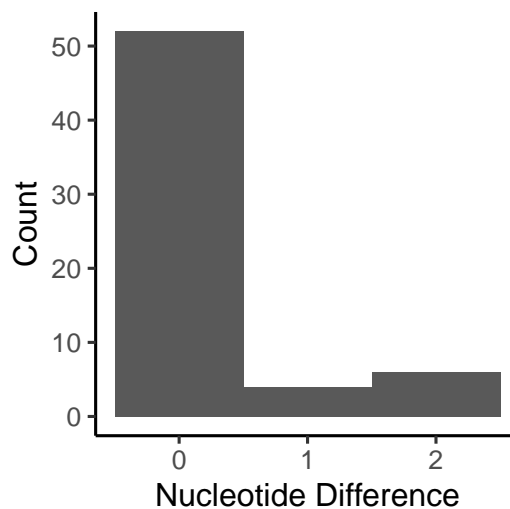
IGHV4-61*02

248 sequences assigned
225 (90.7%) exact matches, in which:
219 unique CDR3
6 unique J



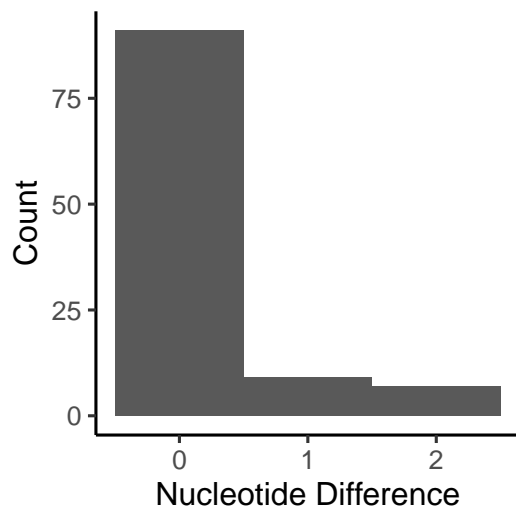
IGHV7-4-1*02

62 sequences assigned
52 (83.9%) exact matches, in which:
52 unique CDR3
6 unique J

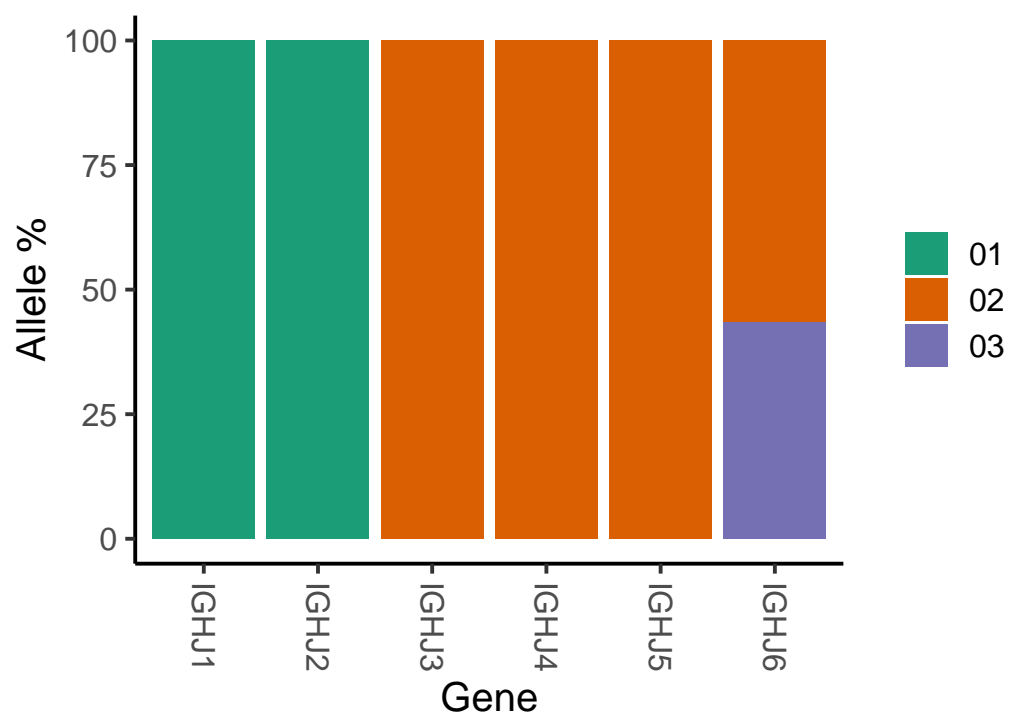


IGHV5-51*01_03

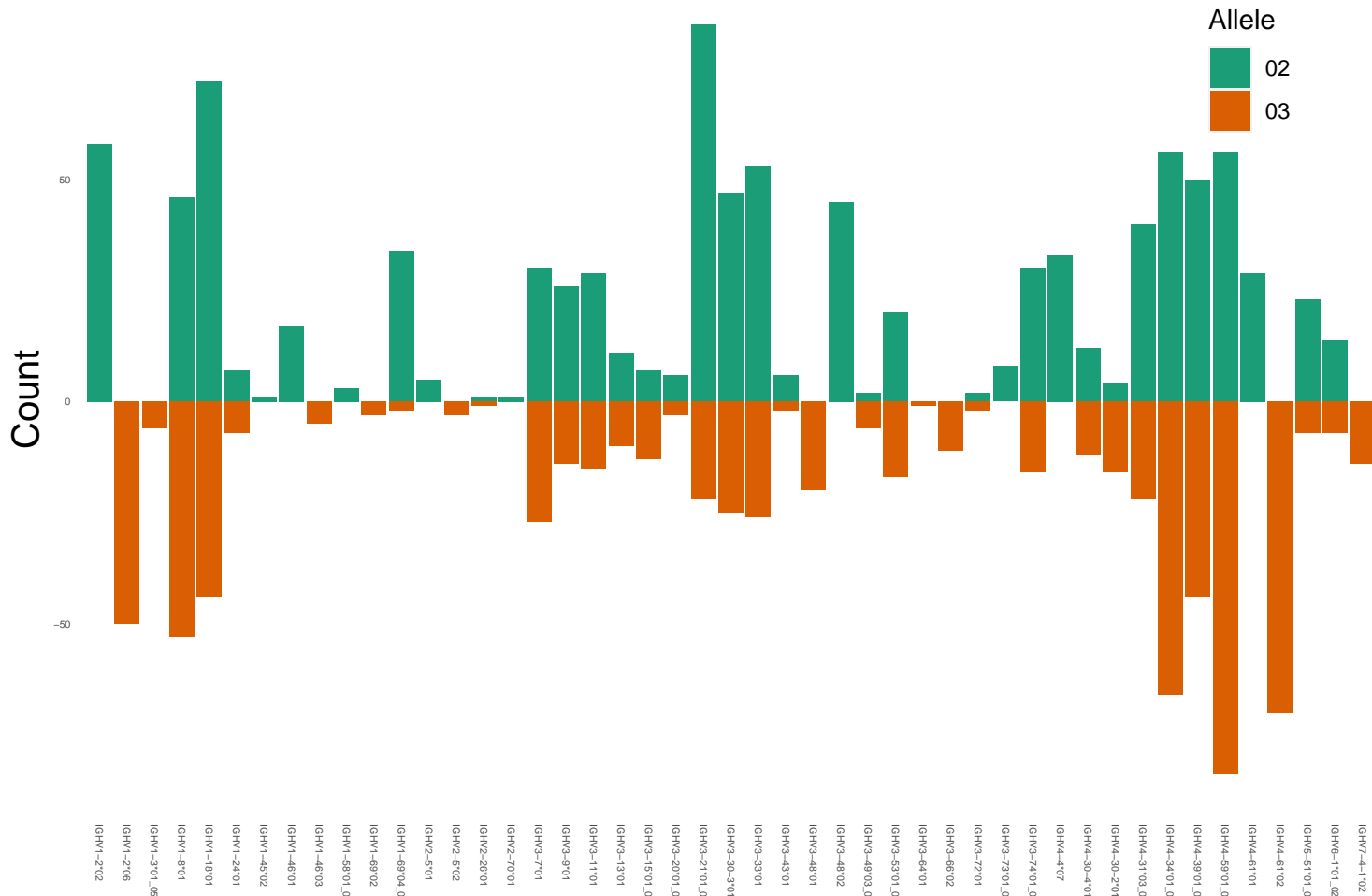
107 sequences assigned
91 (85%) exact matches, in which:
91 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.