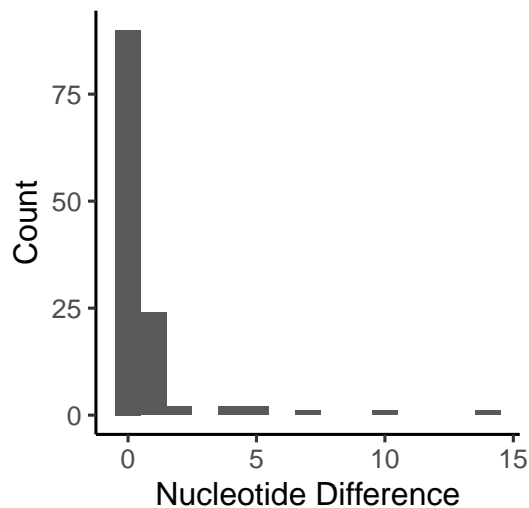


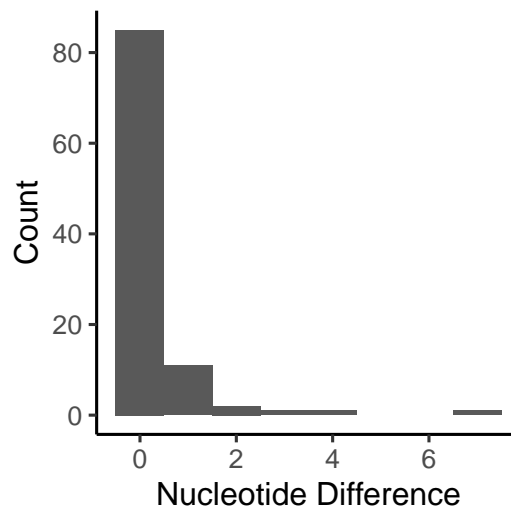
IGHV1-2*02

126 sequences assigned
90 (71.4%) exact matches, in which:
90 unique CDR3
5 unique J



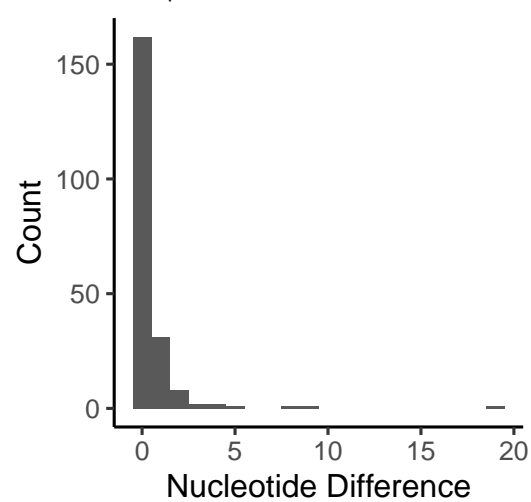
IGHV1-8*01

104 sequences assigned
85 (81.7%) exact matches, in which:
84 unique CDR3
5 unique J



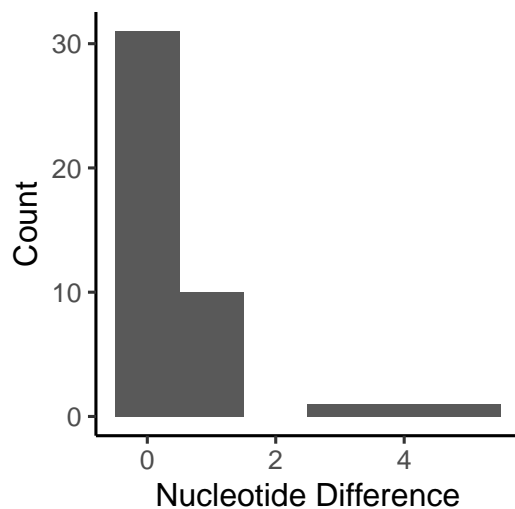
IGHV1-46*01

209 sequences assigned
162 (77.5%) exact matches, in which:
161 unique CDR3
7 unique J



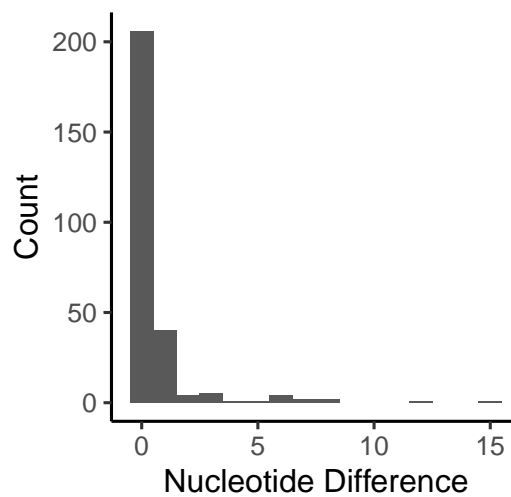
IGHV1-2*04

44 sequences assigned
31 (70.5%) exact matches, in which:
31 unique CDR3
4 unique J



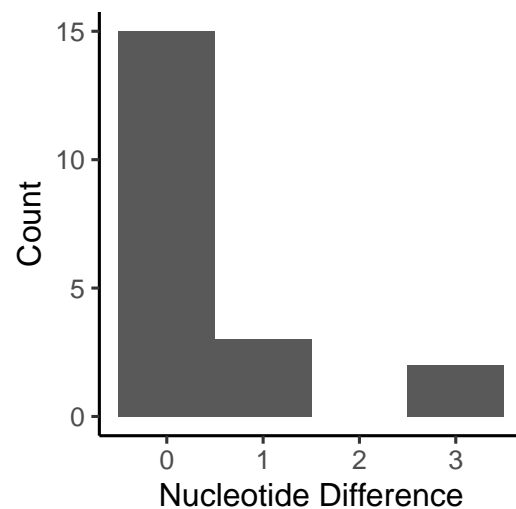
IGHV1-18*01

267 sequences assigned
206 (77.2%) exact matches, in which:
205 unique CDR3
6 unique J



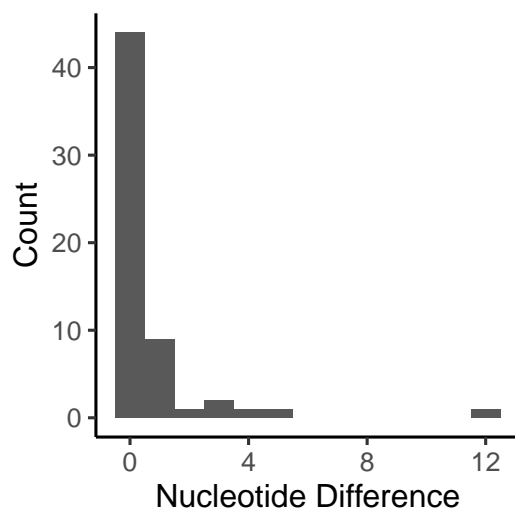
IGHV1-58*02

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
6 unique J



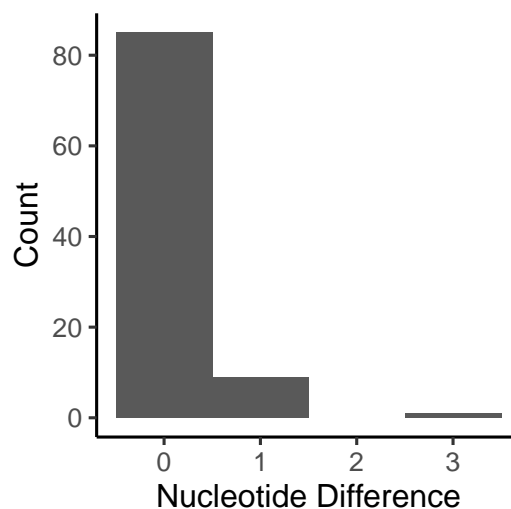
IGHV1-3*01

59 sequences assigned
44 (74.6%) exact matches, in which:
44 unique CDR3
5 unique J



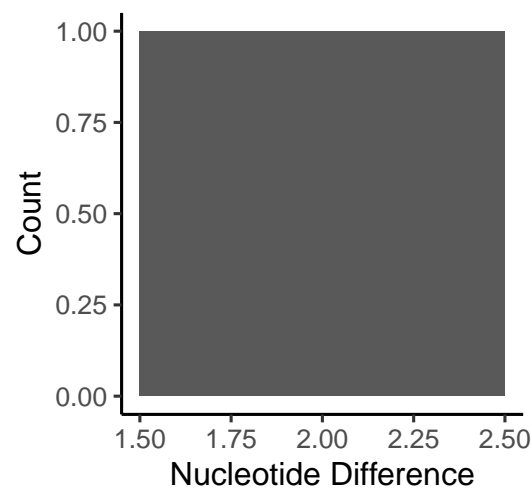
IGHV1-24*01

95 sequences assigned
85 (89.5%) exact matches, in which:
85 unique CDR3
7 unique J



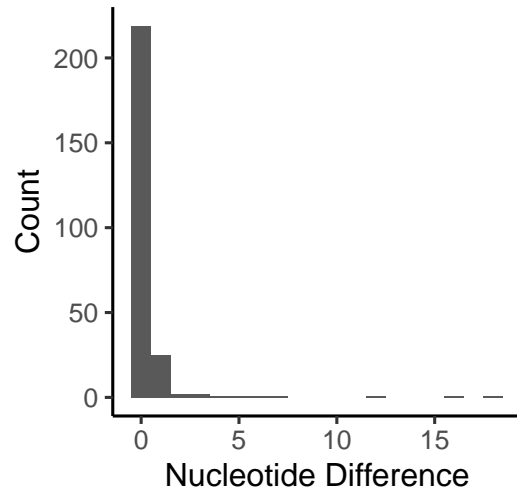
IGHV1-69-2*01

1 sequences assigned
No exact matches.



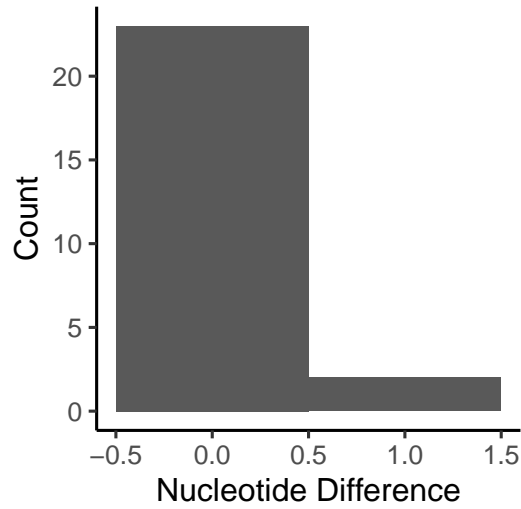
IGHV1–69*04

255 sequences assigned
219 (85.9%) exact matches, in which:
217 unique CDR3
7 unique J



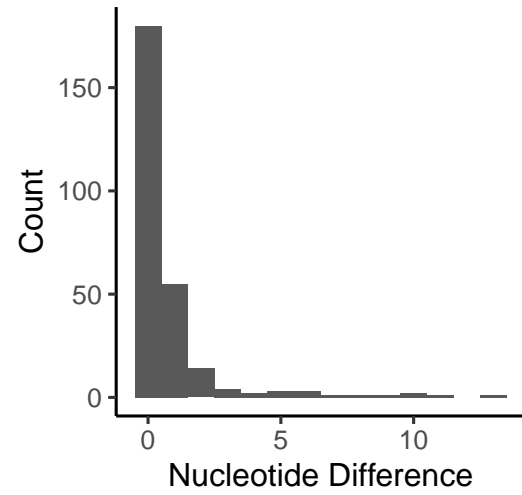
IGHV2–70*15

25 sequences assigned
23 (92%) exact matches, in which:
23 unique CDR3
6 unique J



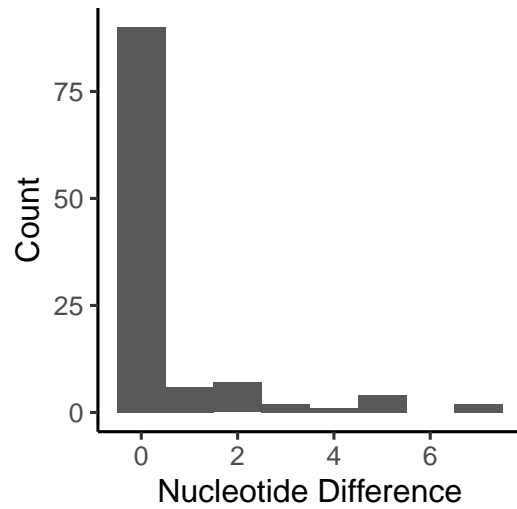
IGHV3–9*01

268 sequences assigned
180 (67.2%) exact matches, in which:
180 unique CDR3
6 unique J



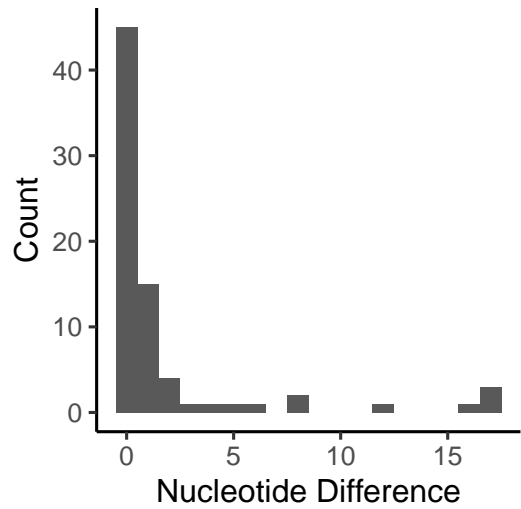
IGHV2–5*02

112 sequences assigned
90 (80.4%) exact matches, in which:
90 unique CDR3
6 unique J



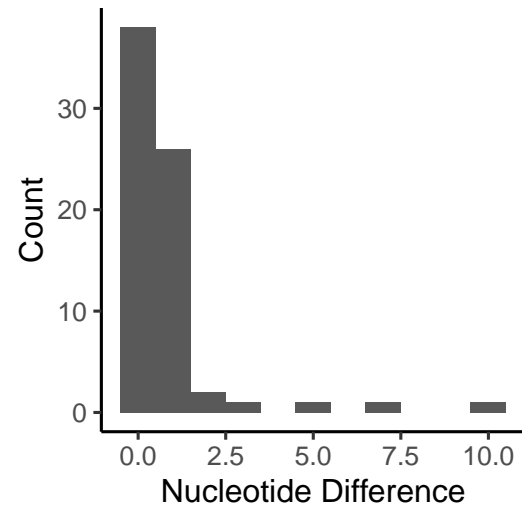
IGHV3–7*01

75 sequences assigned
45 (60%) exact matches, in which:
45 unique CDR3
6 unique J



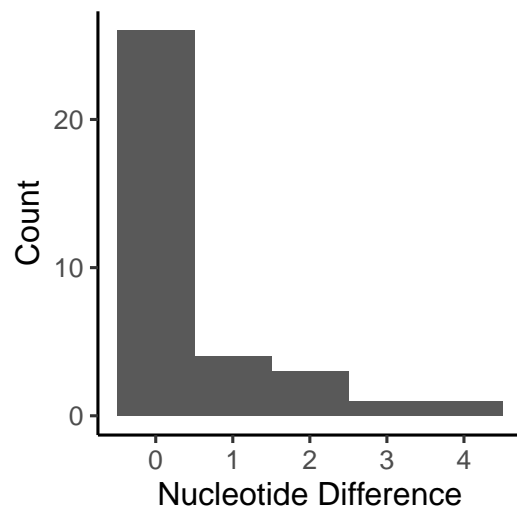
IGHV3–11*01

70 sequences assigned
38 (54.3%) exact matches, in which:
38 unique CDR3
6 unique J



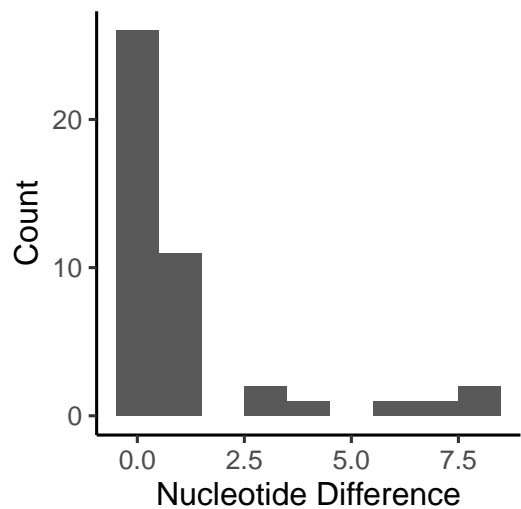
IGHV2–26*01

35 sequences assigned
26 (74.3%) exact matches, in which:
26 unique CDR3
5 unique J



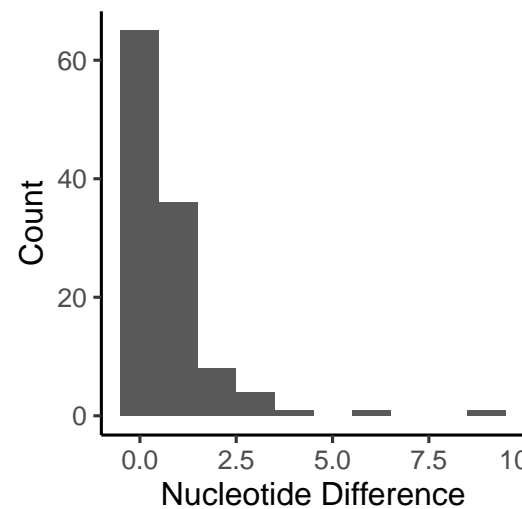
IGHV3–7*04

44 sequences assigned
26 (59.1%) exact matches, in which:
26 unique CDR3
4 unique J



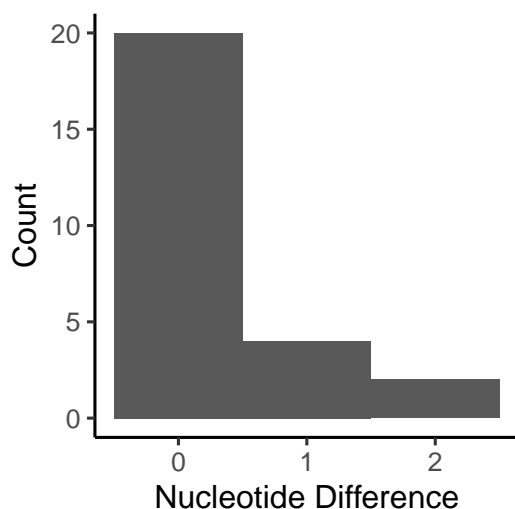
IGHV3–11*05

116 sequences assigned
65 (56%) exact matches, in which:
64 unique CDR3
5 unique J



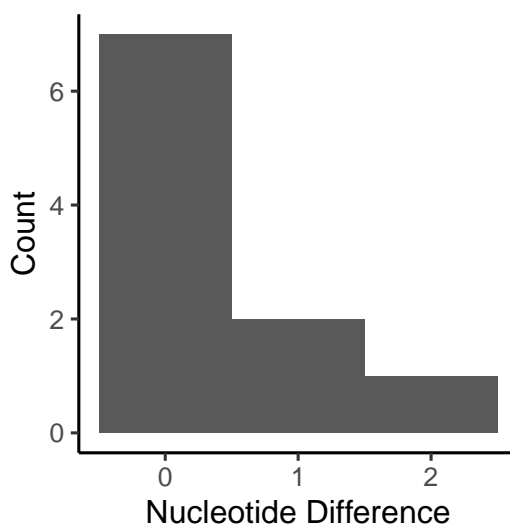
IGHV3-13*01

26 sequences assigned
20 (76.9%) exact matches, in which:
20 unique CDR3
5 unique J



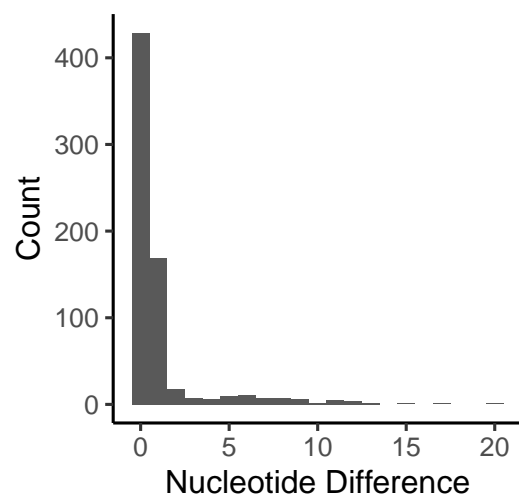
IGHV3-20*01

10 sequences assigned
7 (70%) exact matches, in which:
7 unique CDR3
4 unique J



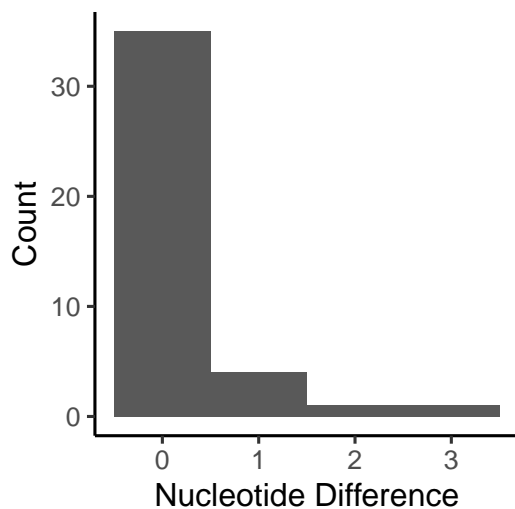
IGHV3-23*01

689 sequences assigned
429 (62.3%) exact matches, in which:
429 unique CDR3
7 unique J



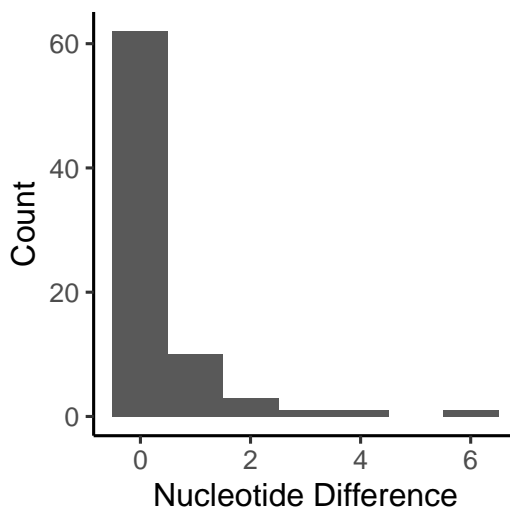
IGHV3-13*04

41 sequences assigned
35 (85.4%) exact matches, in which:
35 unique CDR3
4 unique J



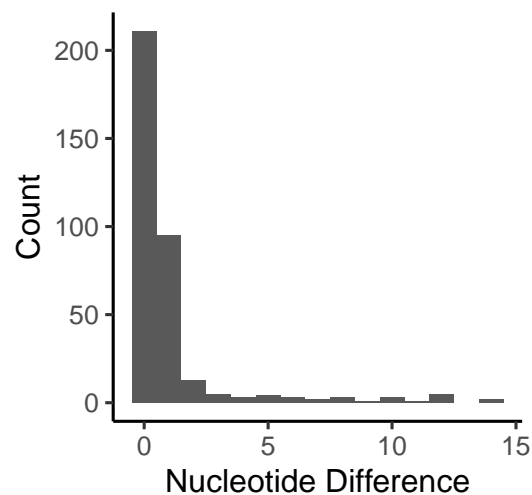
IGHV3-20*04

78 sequences assigned
62 (79.5%) exact matches, in which:
60 unique CDR3
5 unique J



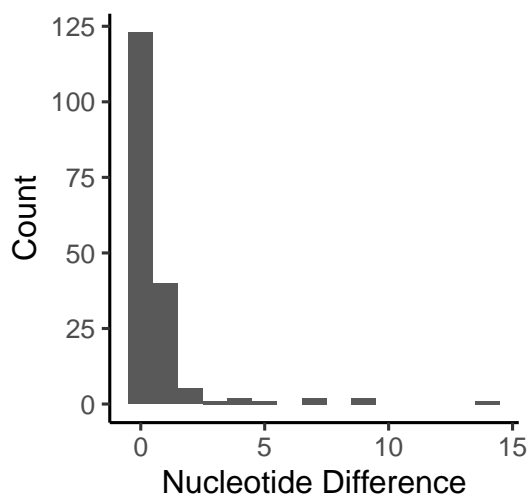
IGHV3-30-3*01

352 sequences assigned
211 (59.9%) exact matches, in which:
210 unique CDR3
6 unique J



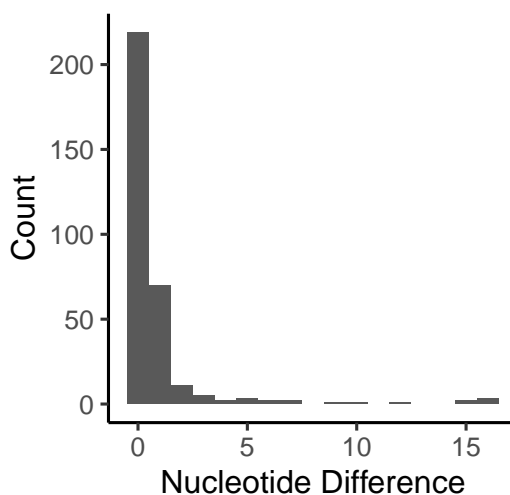
IGHV3-15*01

177 sequences assigned
123 (69.5%) exact matches, in which:
123 unique CDR3
6 unique J



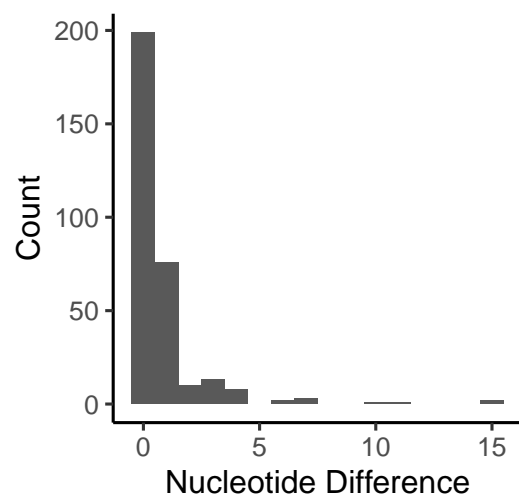
IGHV3-21*01

322 sequences assigned
219 (68%) exact matches, in which:
218 unique CDR3
6 unique J



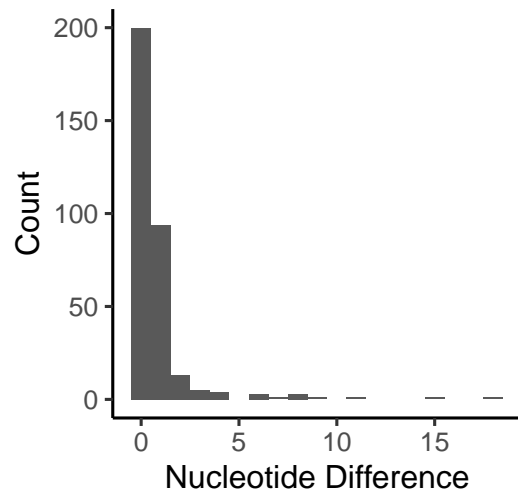
IGHV3-30*18

315 sequences assigned
199 (63.2%) exact matches, in which:
197 unique CDR3
7 unique J



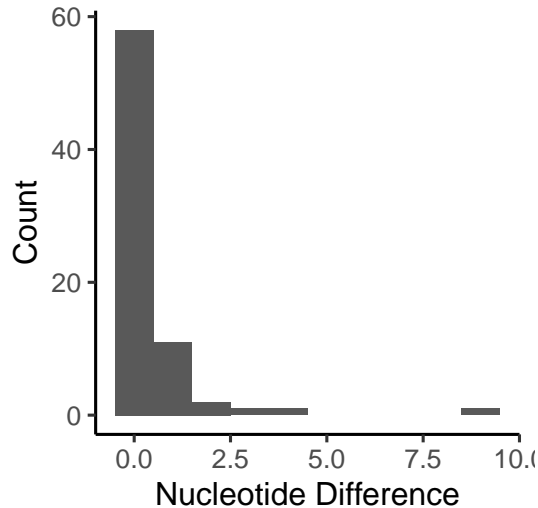
IGHV3–33*01

327 sequences assigned
200 (61.2%) exact matches, in which:
198 unique CDR3
7 unique J



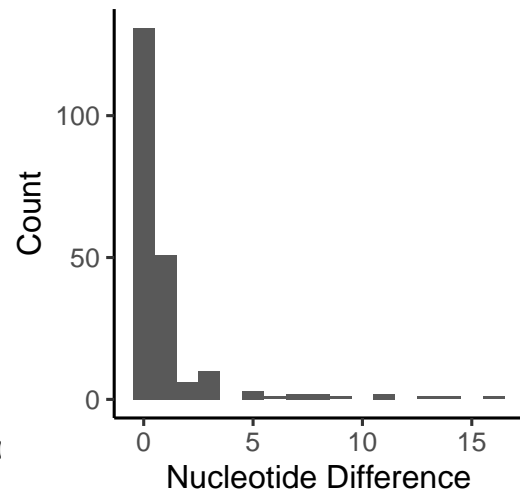
IGHV3–49*03

75 sequences assigned
58 (77.3%) exact matches, in which:
56 unique CDR3
6 unique J



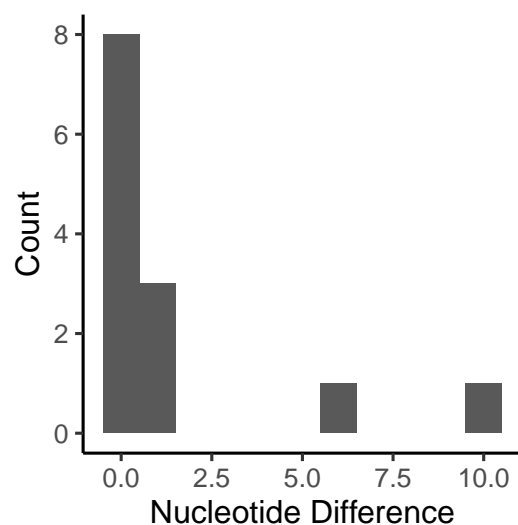
IGHV3–66*01

212 sequences assigned
131 (61.8%) exact matches, in which:
128 unique CDR3
7 unique J



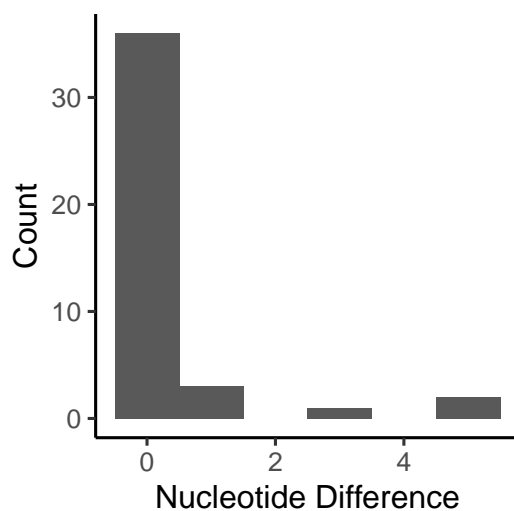
IGHV3–43*01

13 sequences assigned
8 (61.5%) exact matches, in which:
8 unique CDR3
3 unique J



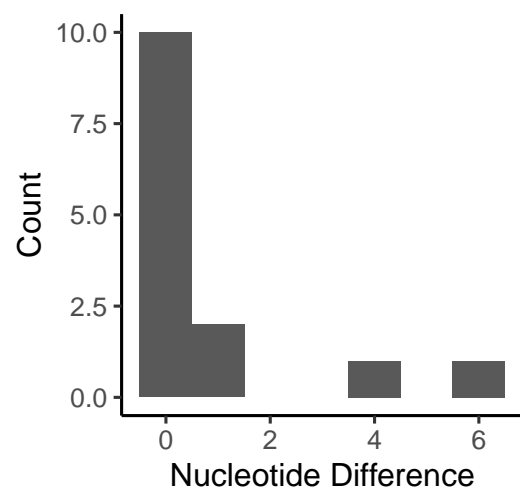
IGHV3–53*02

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



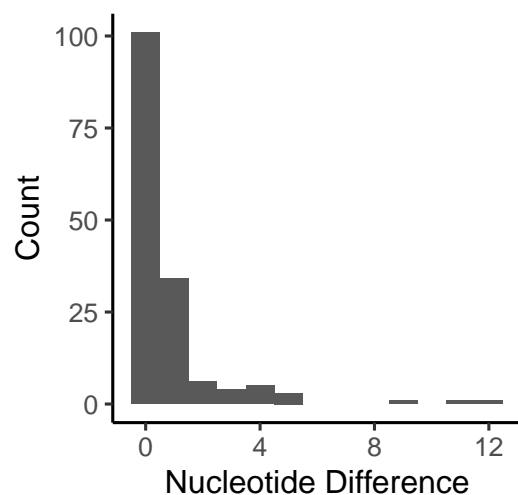
IGHV3–72*01

14 sequences assigned
10 (71.4%) exact matches, in which:
10 unique CDR3
5 unique J



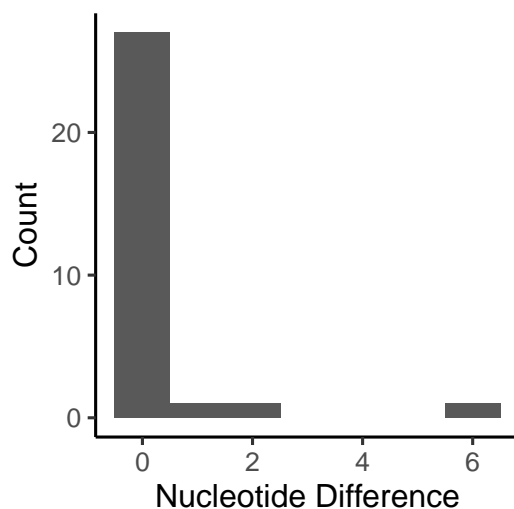
IGHV3–48*01

156 sequences assigned
101 (64.7%) exact matches, in which:
100 unique CDR3
6 unique J



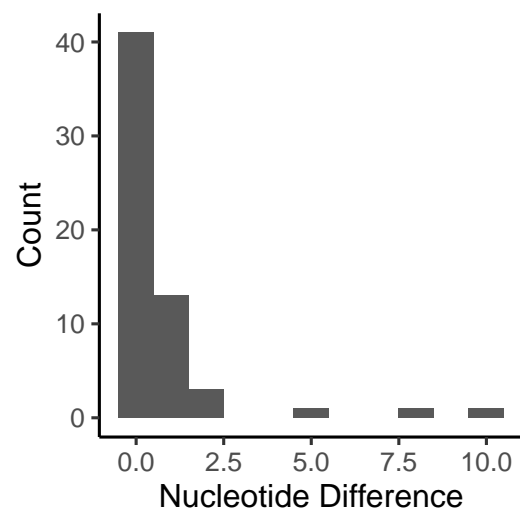
IGHV3–64*01

30 sequences assigned
27 (90%) exact matches, in which:
27 unique CDR3
5 unique J



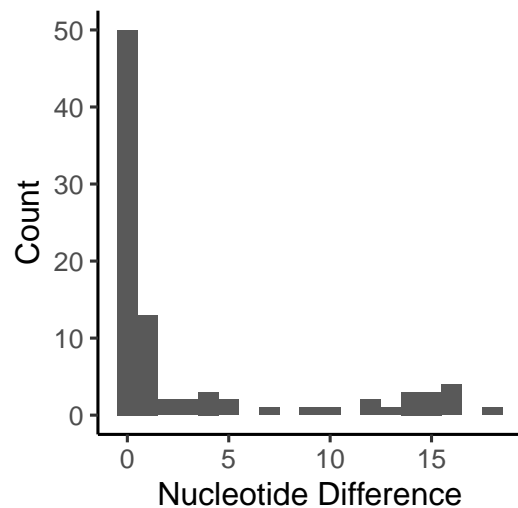
IGHV3–73*01

60 sequences assigned
41 (68.3%) exact matches, in which:
41 unique CDR3
6 unique J



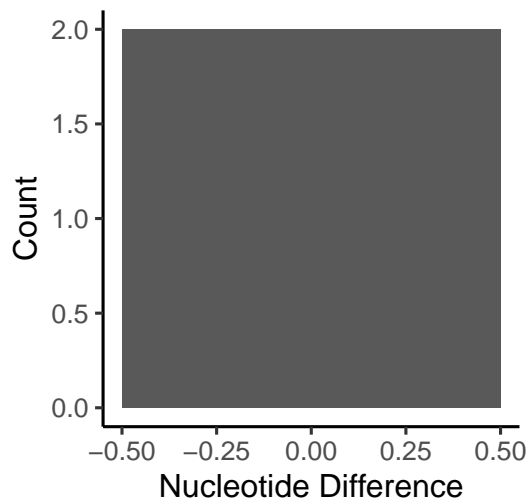
IGHV3-74*01

89 sequences assigned
50 (56.2%) exact matches, in which:
50 unique CDR3
5 unique J



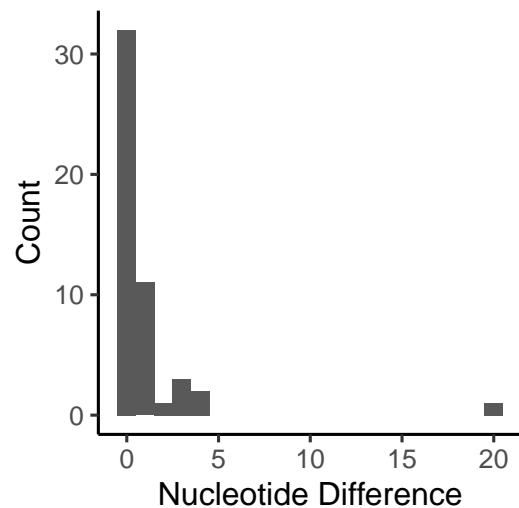
IGHV4-28*01

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



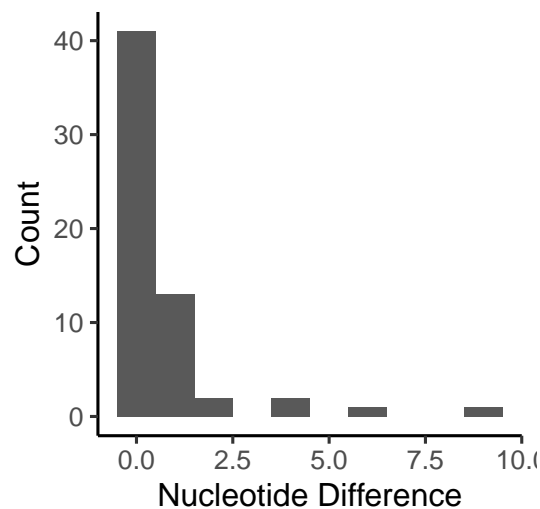
IGHV4-30-2*01

50 sequences assigned
32 (64%) exact matches, in which:
32 unique CDR3
5 unique J



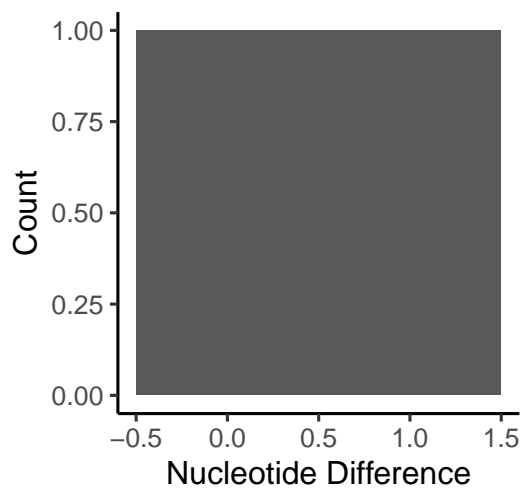
IGHV3-64D*06

62 sequences assigned
41 (66.1%) exact matches, in which:
40 unique CDR3
4 unique J



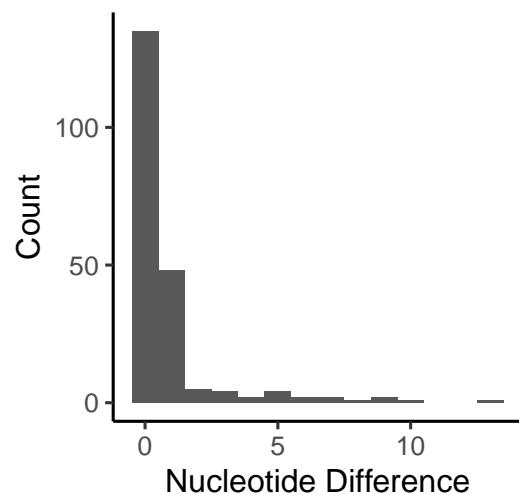
IGHV4-28*03

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



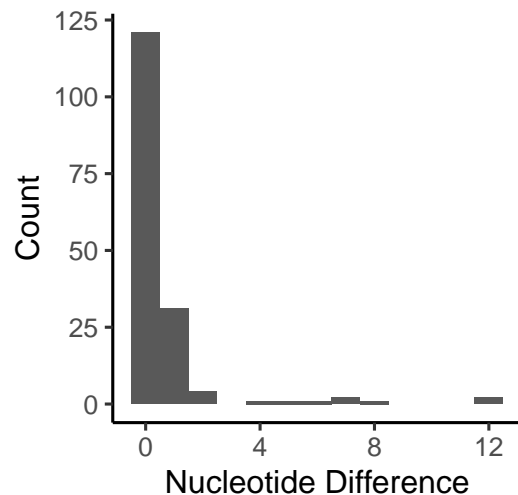
IGHV4-31*03

207 sequences assigned
135 (65.2%) exact matches, in which:
135 unique CDR3
7 unique J



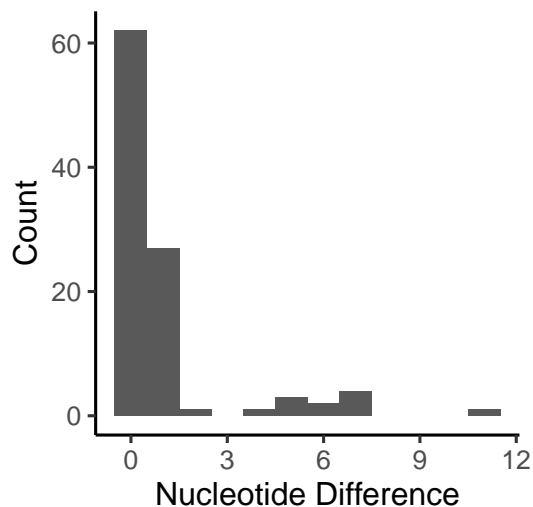
IGHV4-4*02

164 sequences assigned
121 (73.8%) exact matches, in which:
120 unique CDR3
6 unique J



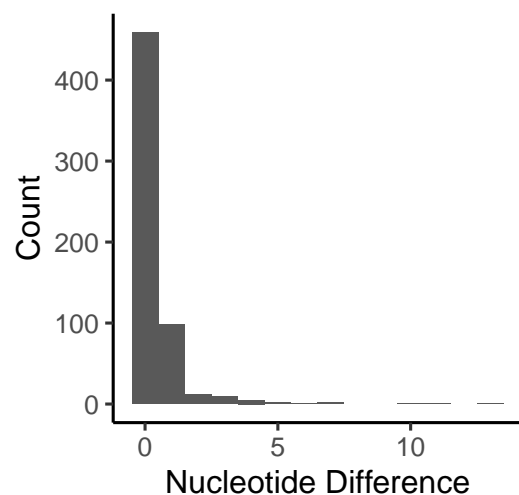
IGHV4-30-4*01

101 sequences assigned
62 (61.4%) exact matches, in which:
62 unique CDR3
5 unique J



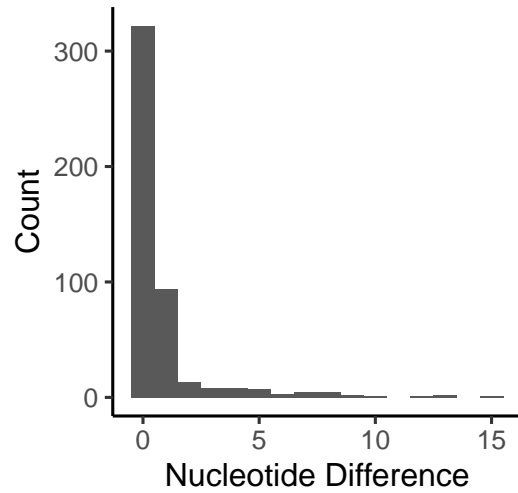
IGHV4-34*01

592 sequences assigned
459 (77.5%) exact matches, in which:
452 unique CDR3
7 unique J



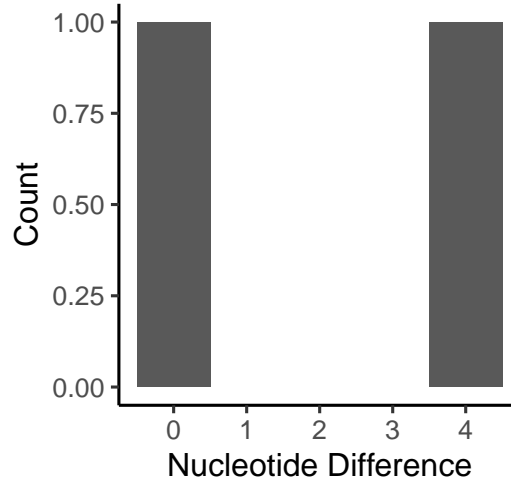
IGHV4-39*01

473 sequences assigned
322 (68.1%) exact matches, in which:
319 unique CDR3
7 unique J



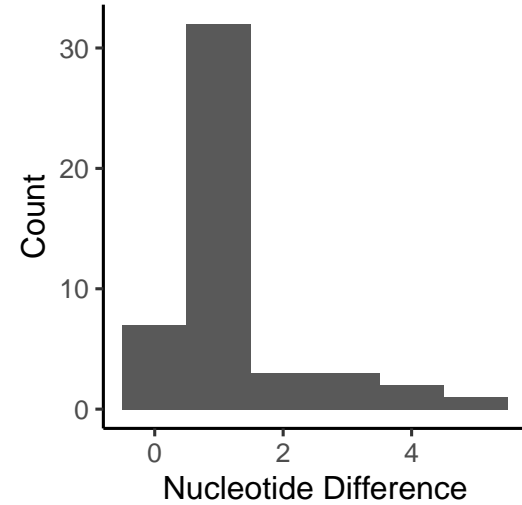
IGHV4-61*07

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



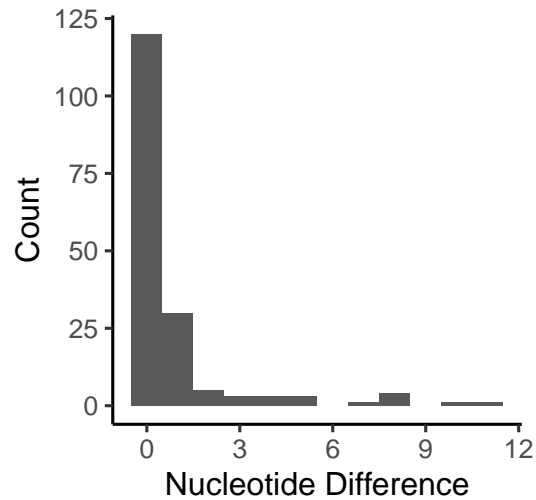
IGHV5-51*01

48 sequences assigned
7 (14.6%) exact matches, in which:
7 unique CDR3
4 unique J



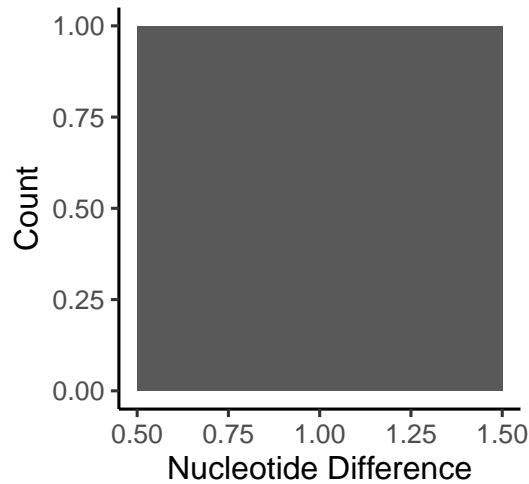
IGHV4-59*01

171 sequences assigned
120 (70.2%) exact matches, in which:
119 unique CDR3
7 unique J



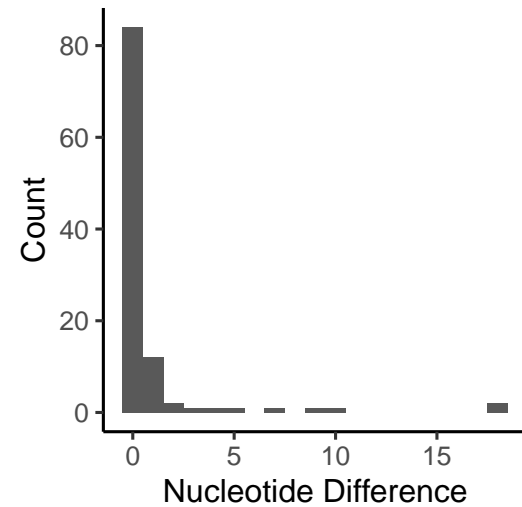
IGHV4-61*10

1 sequences assigned
No exact matches.



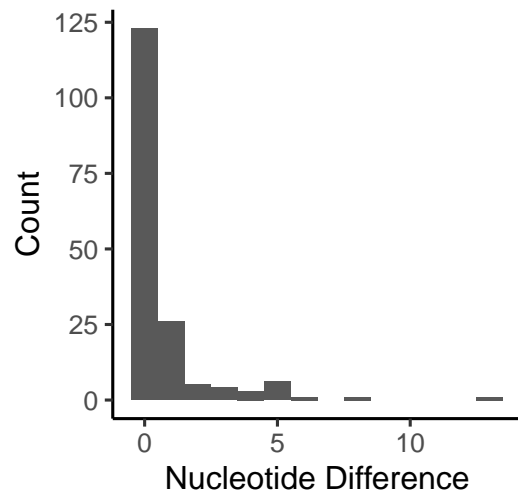
IGHV5-51*03

106 sequences assigned
84 (79.2%) exact matches, in which:
84 unique CDR3
7 unique J



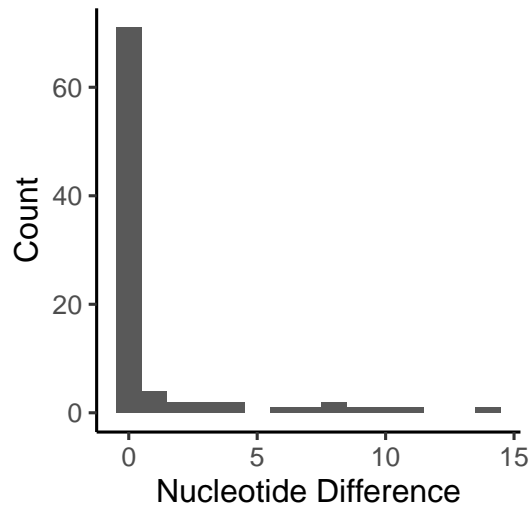
IGHV4-59*08

170 sequences assigned
123 (72.4%) exact matches, in which:
122 unique CDR3
7 unique J



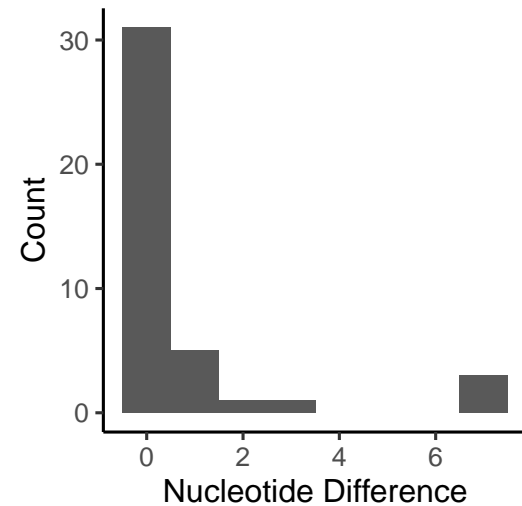
IGHV5-10-1*01

89 sequences assigned
71 (79.8%) exact matches, in which:
71 unique CDR3
6 unique J



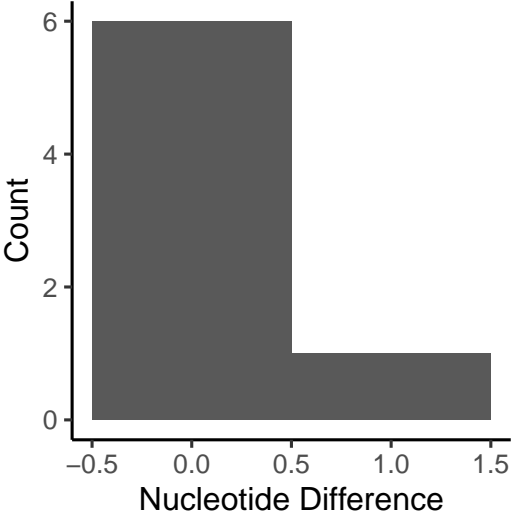
IGHV6-1*01

41 sequences assigned
31 (75.6%) exact matches, in which:
31 unique CDR3
6 unique J

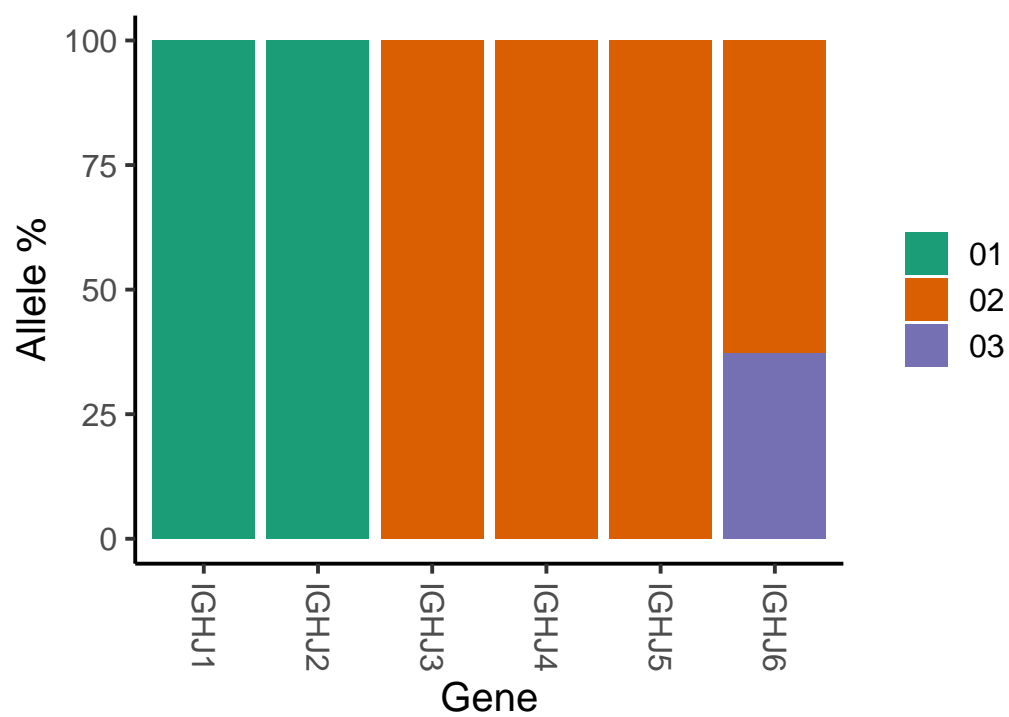


IGHV7-4-1*01

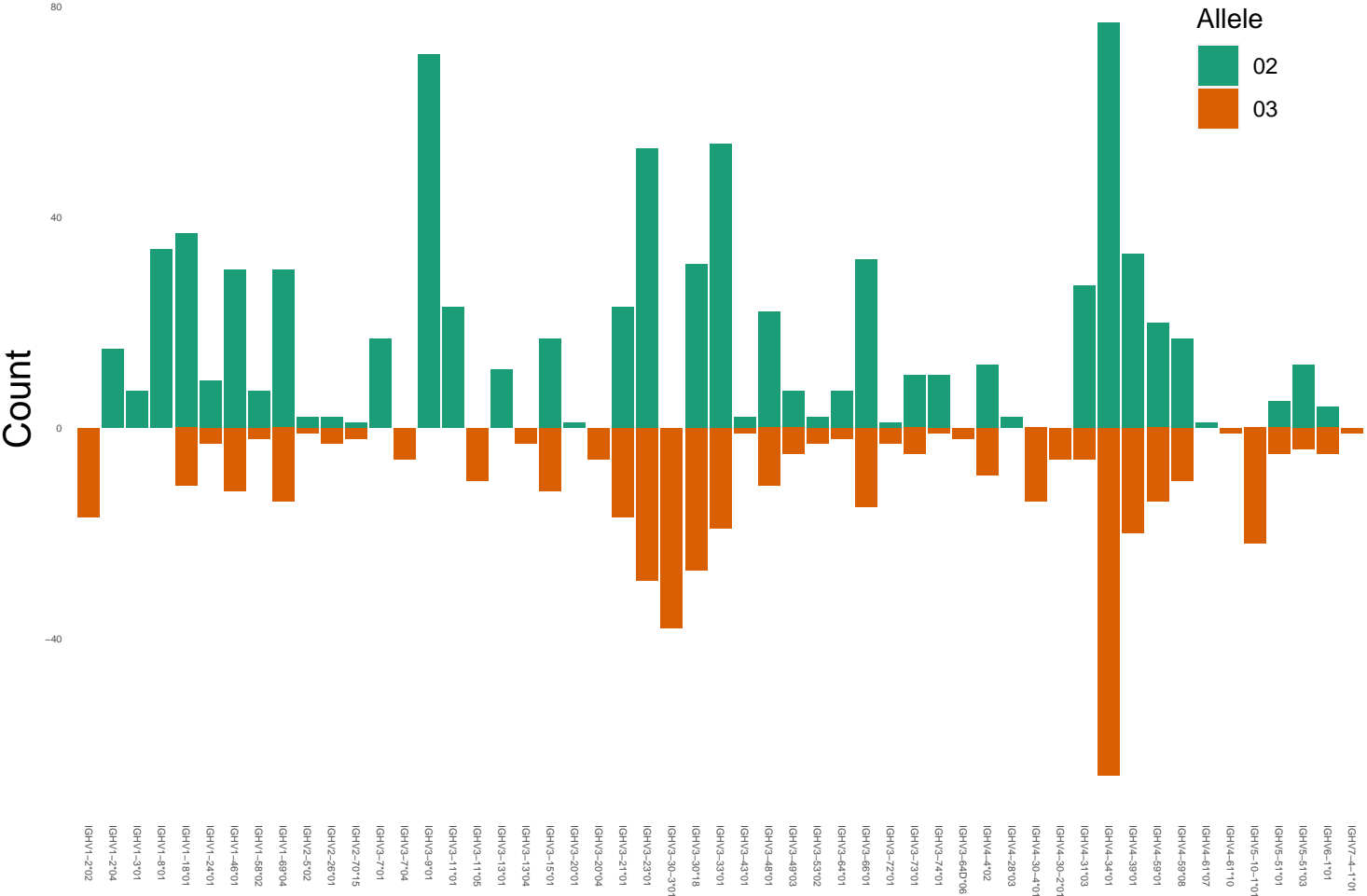
7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.