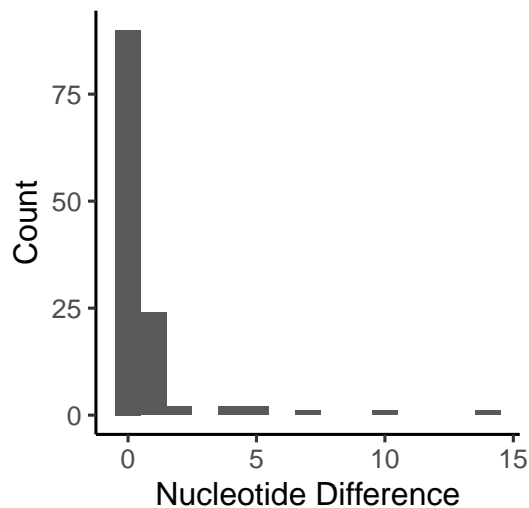


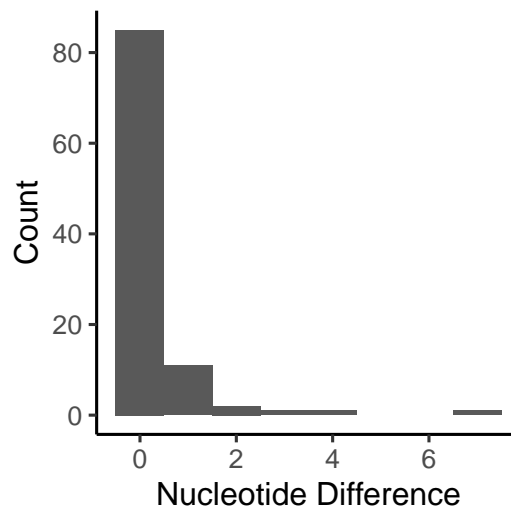
IGHV1-2*02

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



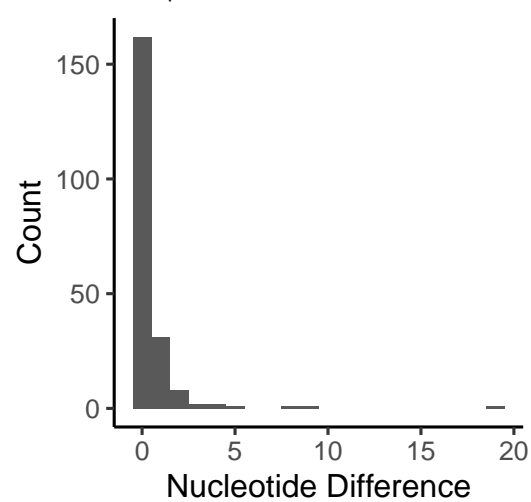
IGHV1-8*01

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



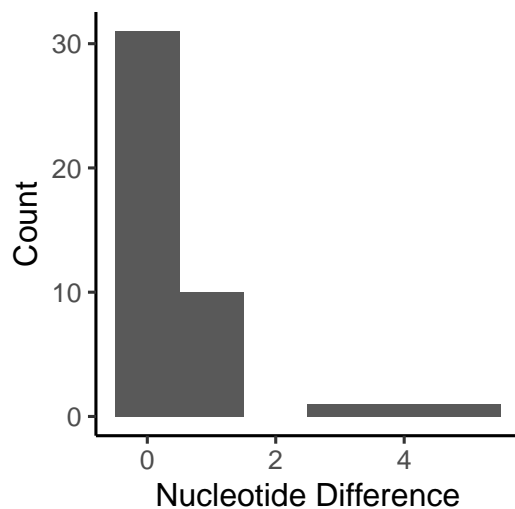
IGHV1-46*01

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



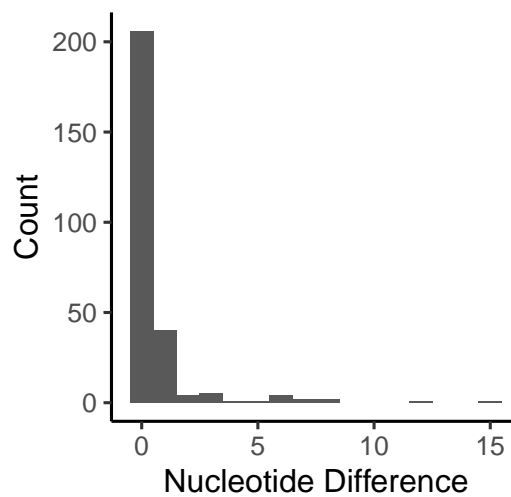
IGHV1-2*04

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



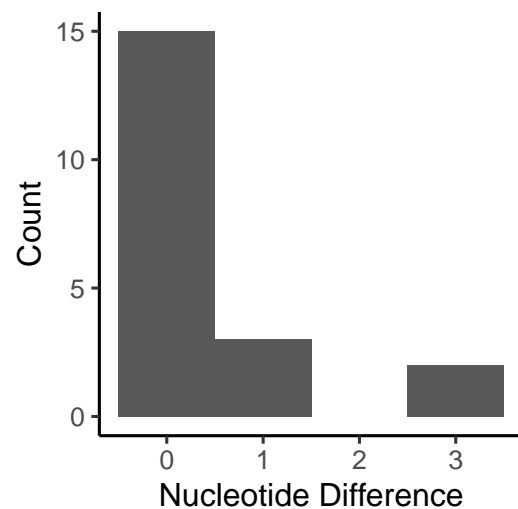
IGHV1-18*01

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



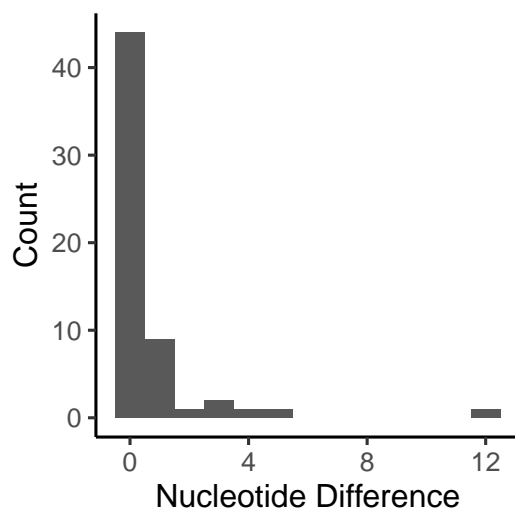
IGHV1-58*02

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



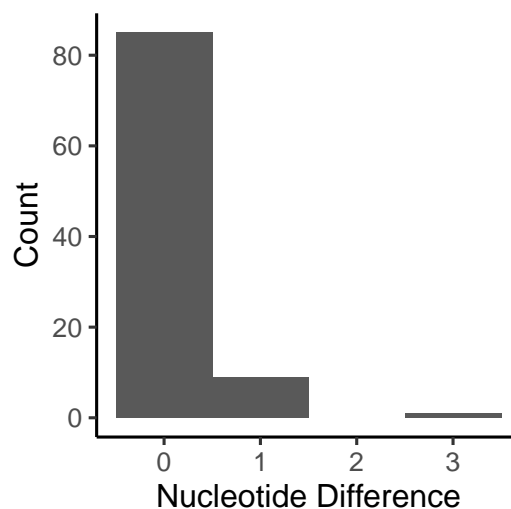
IGHV1-3*01

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



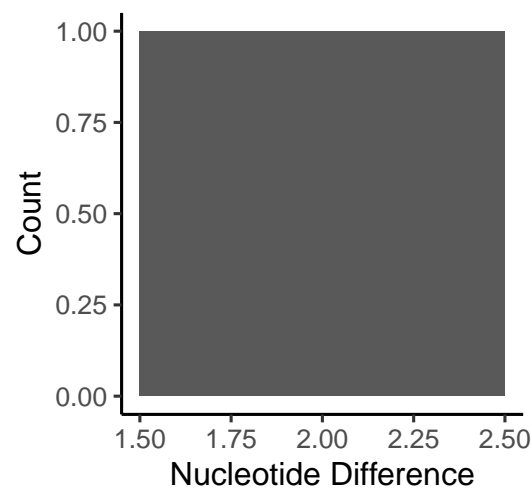
IGHV1-24*01

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



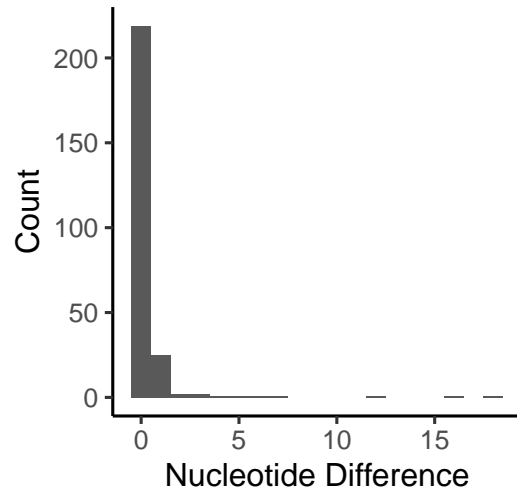
IGHV1-69-2*01

1 sequences assigned
No exact matches.



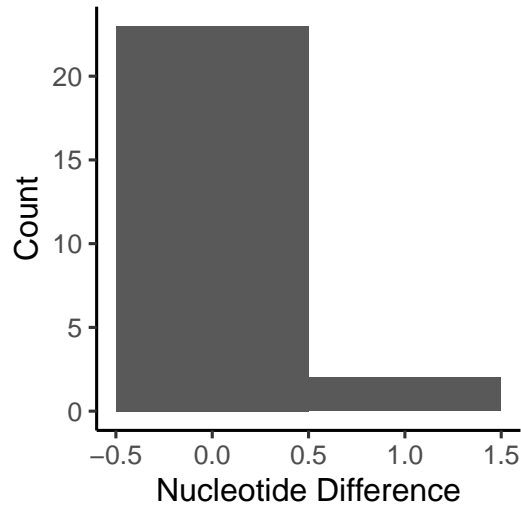
IGHV1–69*04

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



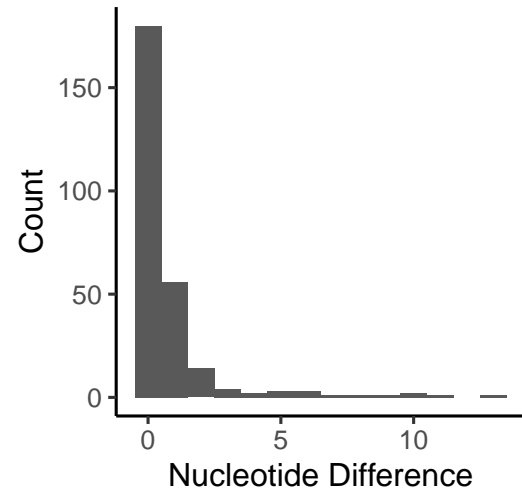
IGHV2–70*15

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



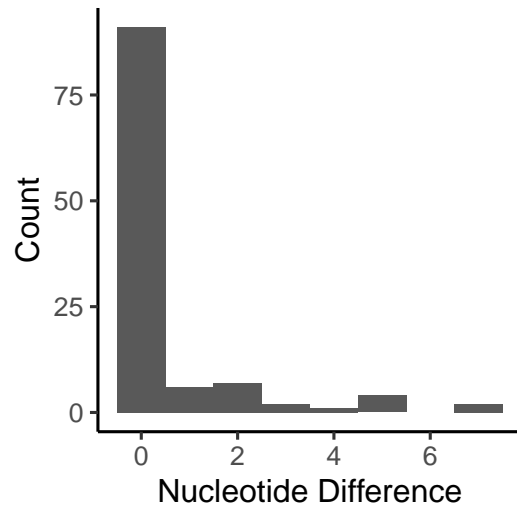
IGHV3–9*01

269 sequences assigned
180 (66.9%) exact matches, in which:
180 unique CDR3
6 unique J



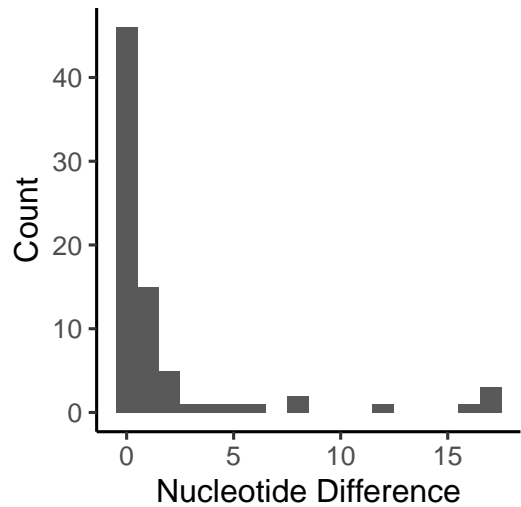
IGHV2–5*02

113 sequences assigned
91 (80.5%) exact matches, in which:
91 unique CDR3
6 unique J



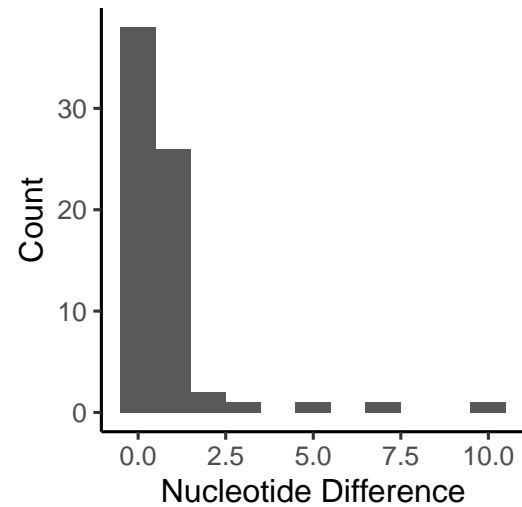
IGHV3–7*01

77 sequences assigned
46 (59.7%) exact matches, in which:
46 unique CDR3
6 unique J



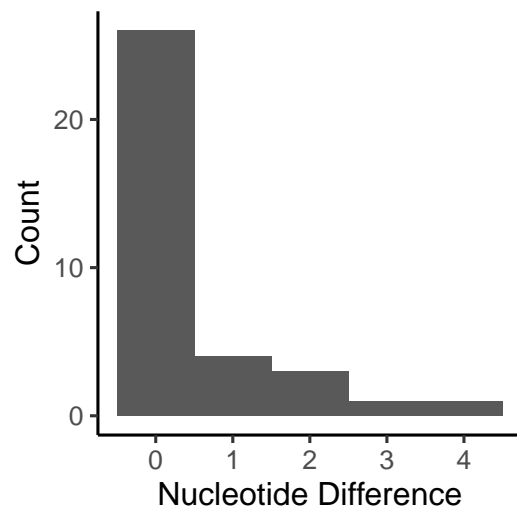
IGHV3–11*01

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



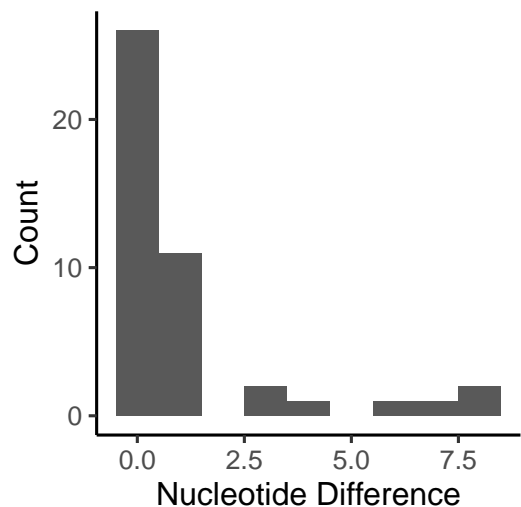
IGHV2–26*01

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



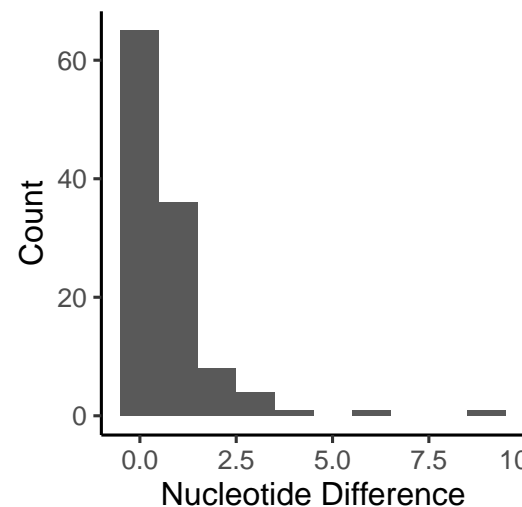
IGHV3–7*04

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



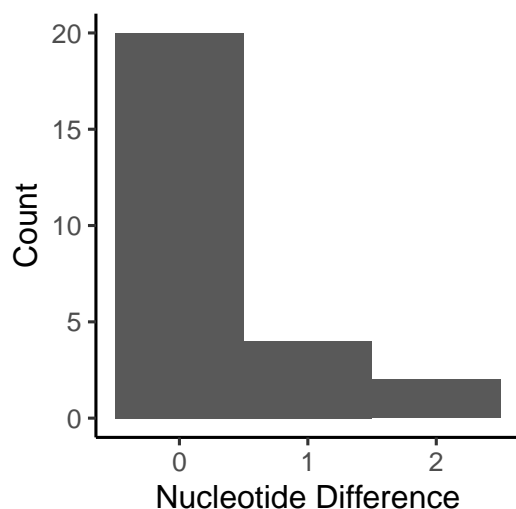
IGHV3–11*05

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



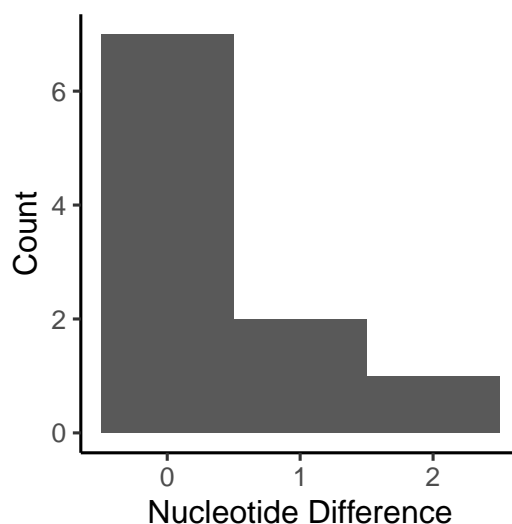
IGHV3-13*01

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



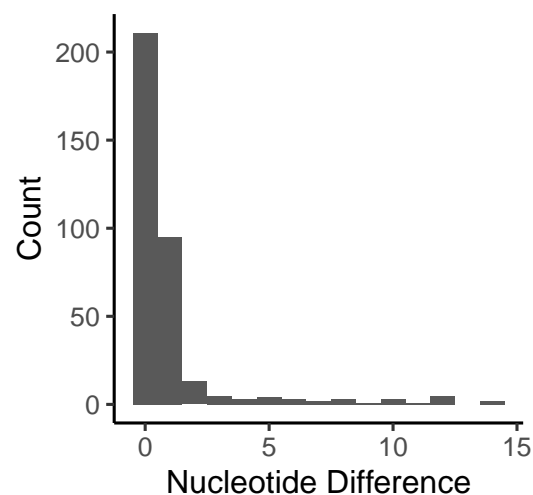
IGHV3-20*01

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



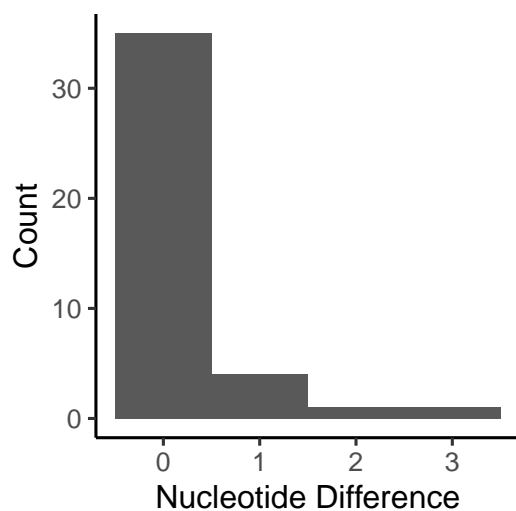
IGHV3-30-3*01

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



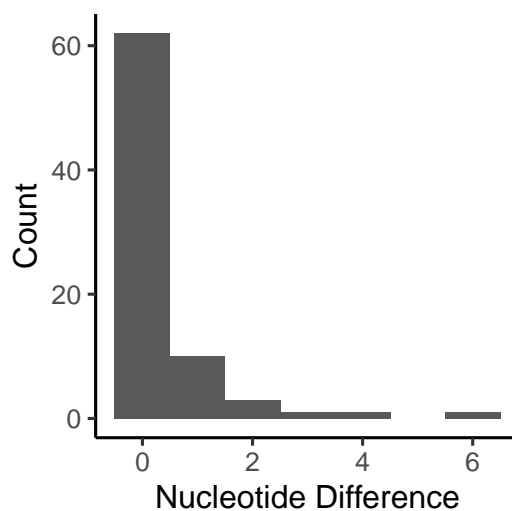
IGHV3-13*04

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



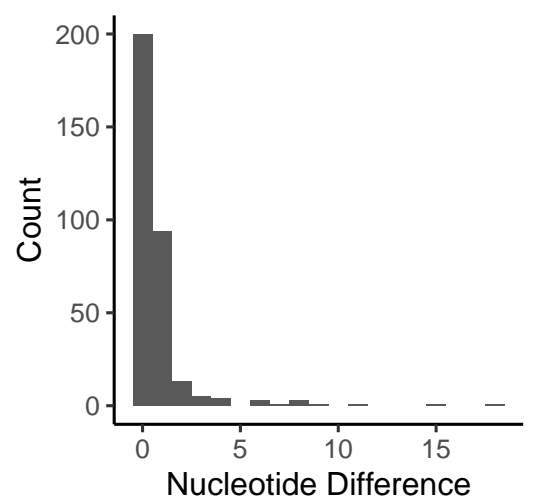
IGHV3-20*04

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



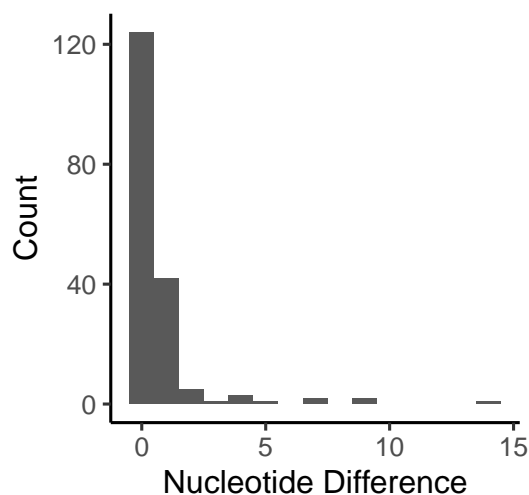
IGHV3-33*01

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



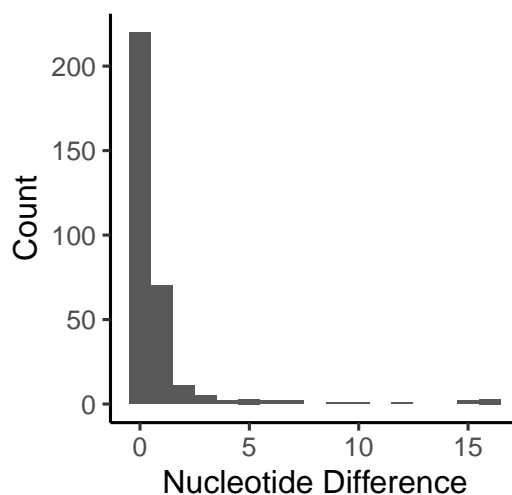
IGHV3-15*01

181 sequences assigned
124 (68.5%) exact matches, in which:
124 unique CDR3
6 unique J



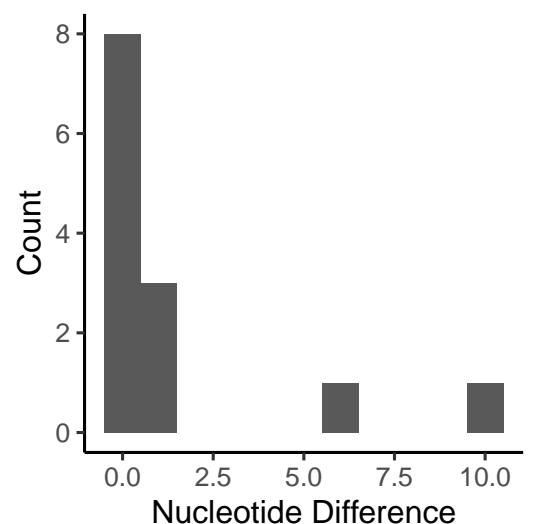
IGHV3-21*01

323 sequences assigned
220 (68.1%) exact matches, in which:
219 unique CDR3
6 unique J



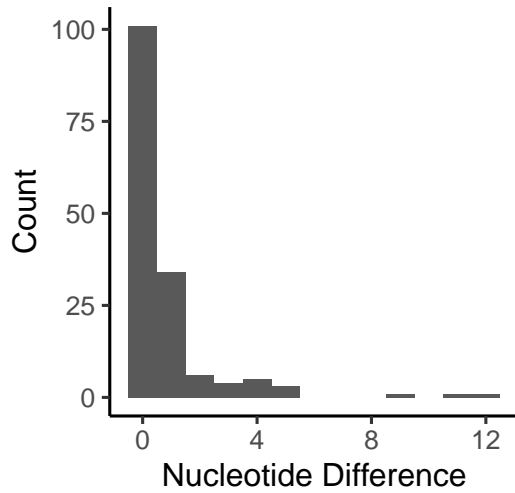
IGHV3-43*01

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



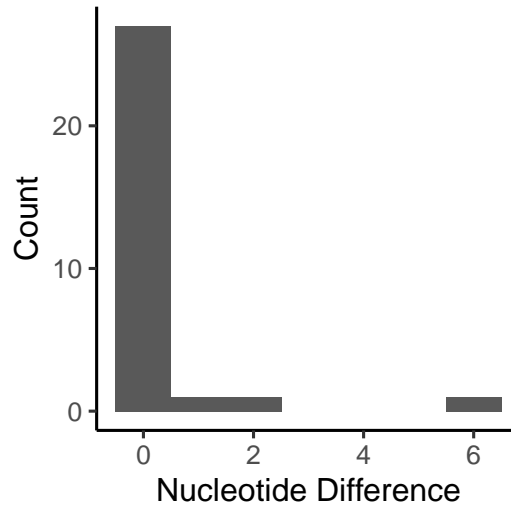
IGHV3-48*01

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



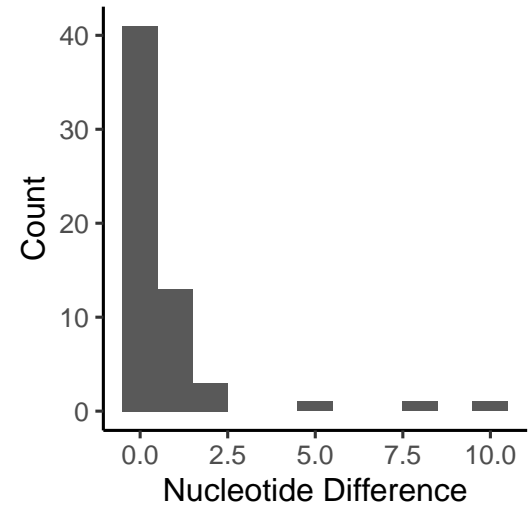
IGHV3-64*01

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



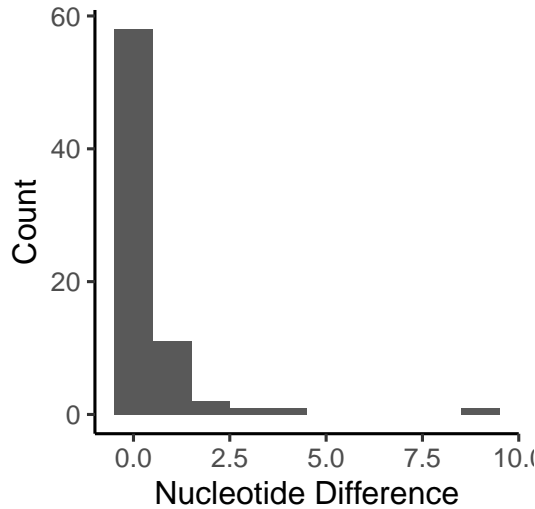
IGHV3-73*01

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



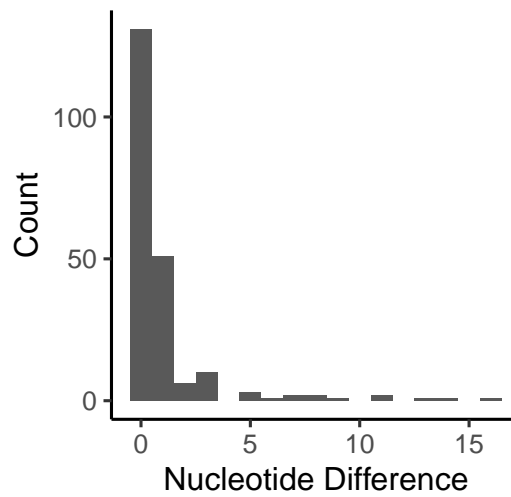
IGHV3-49*03

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



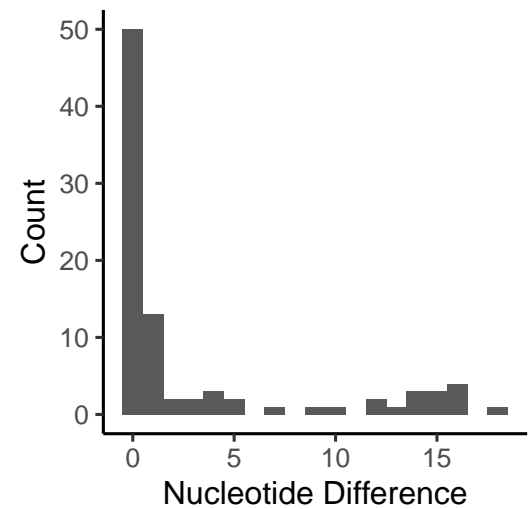
IGHV3-66*01

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



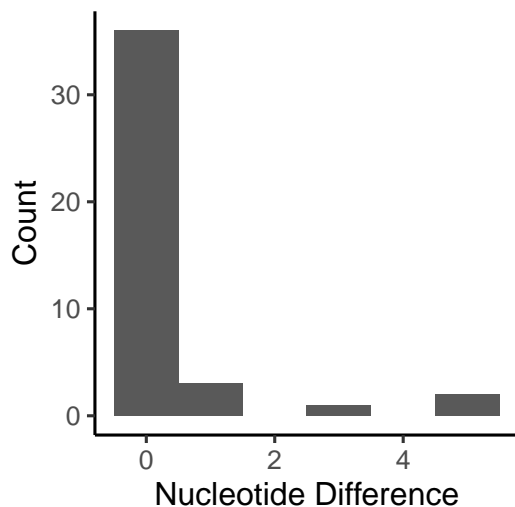
IGHV3-74*01

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



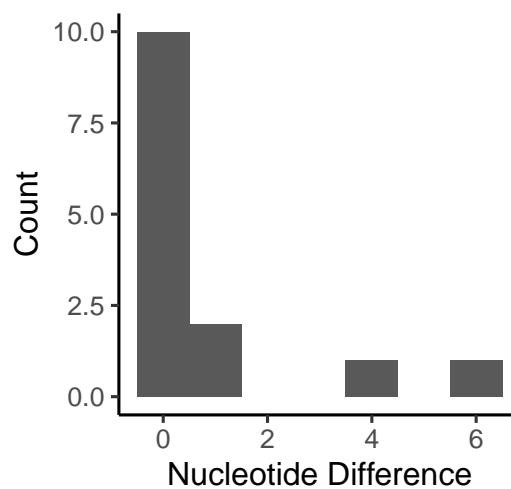
IGHV3-53*02

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



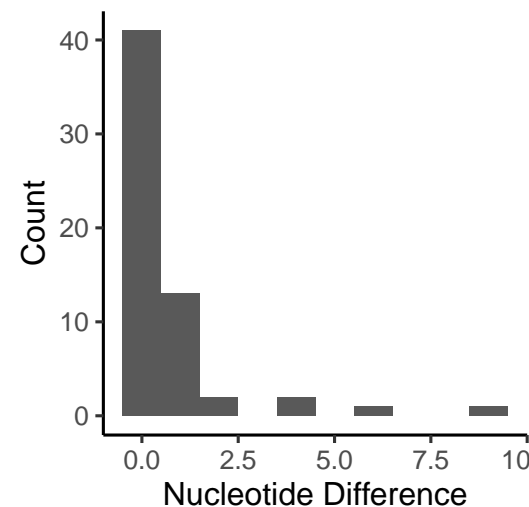
IGHV3-72*01

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



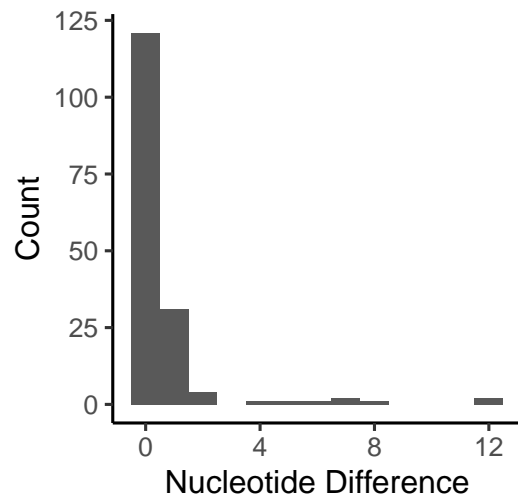
IGHV3-64D*06

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



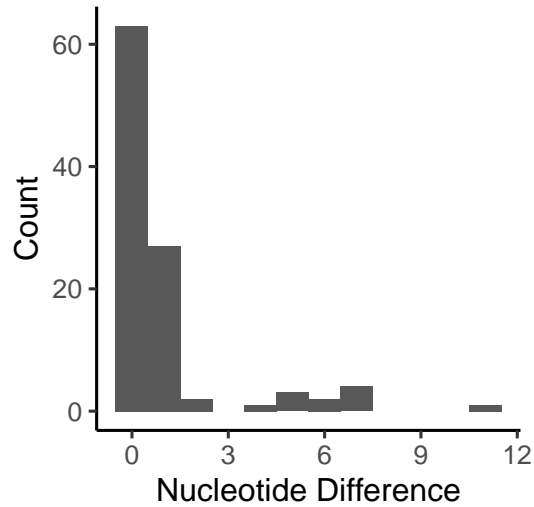
IGHV4-4*02

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



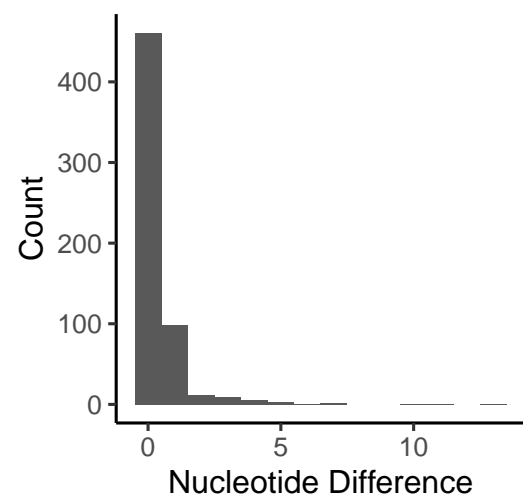
IGHV4-30-4*01

103 sequences assigned
63 (61.2%) exact matches, in which:
62 unique CDR3
5 unique J



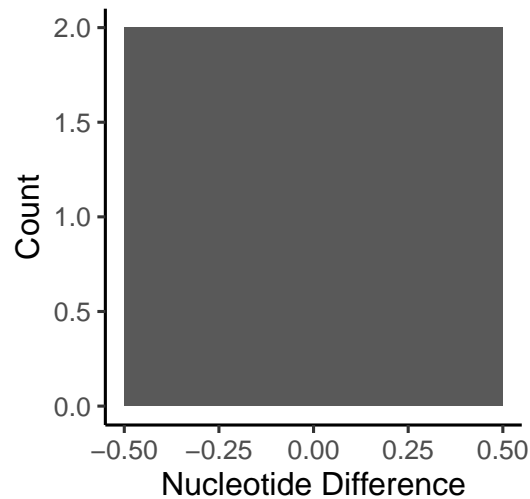
IGHV4-34*01

595 sequences assigned
461 (77.5%) exact matches, in which:
454 unique CDR3
7 unique J



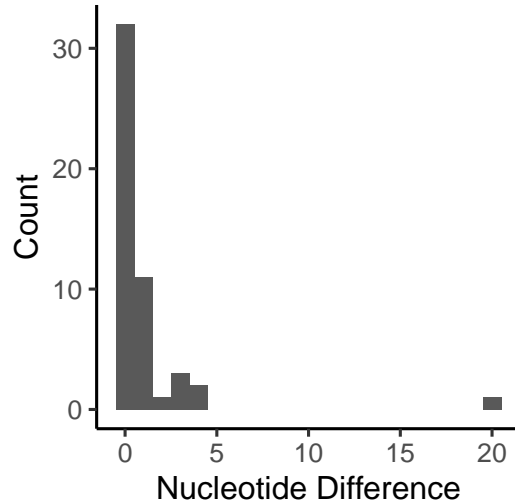
IGHV4-28*01

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



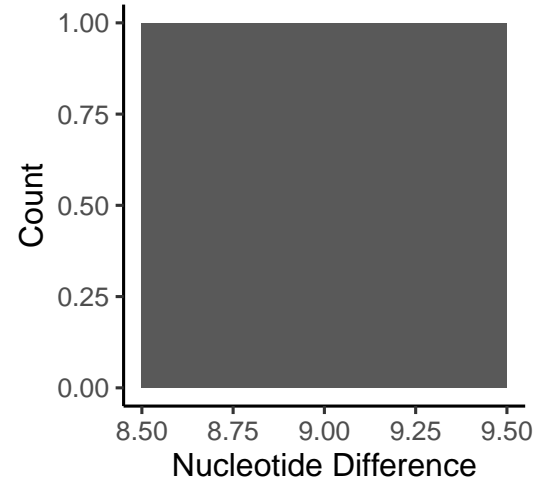
IGHV4-30-2*01

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



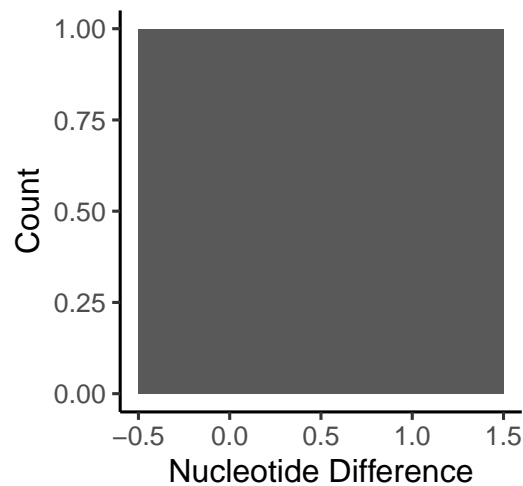
IGHV4-38-2*02

1 sequences assigned
No exact matches.



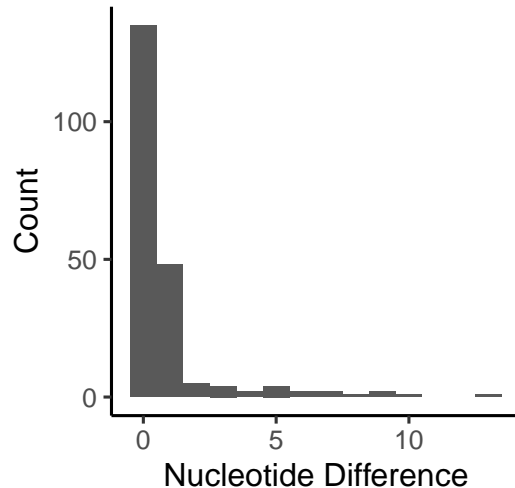
IGHV4-28*03

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



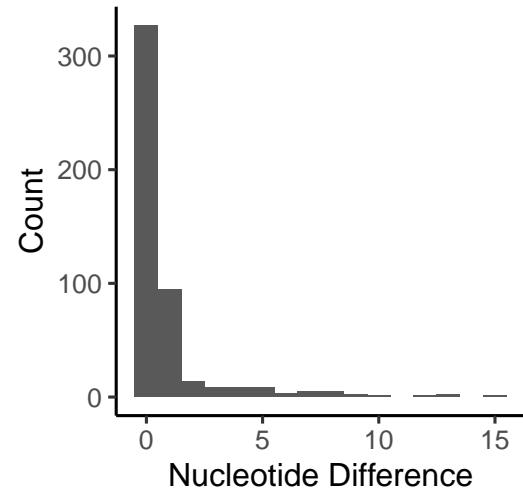
IGHV4-31*03

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



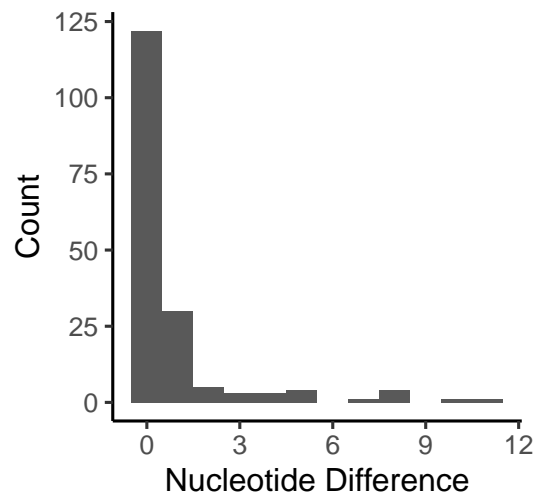
IGHV4-39*01

481 sequences assigned
327 (68%) exact matches, in which:
324 unique CDR3
7 unique J



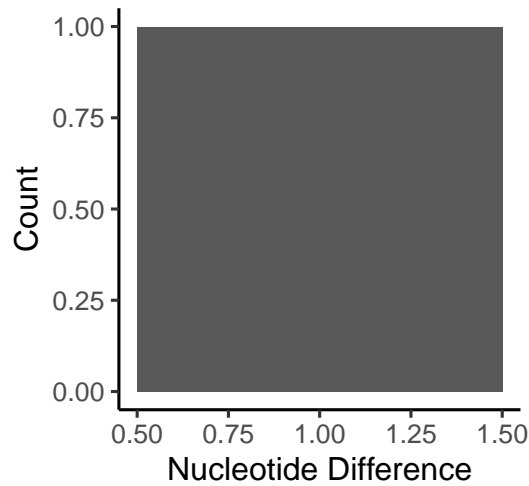
IGHV4–59*01

174 sequences assigned
122 (70.1%) exact matches, in which:
121 unique CDR3
7 unique J



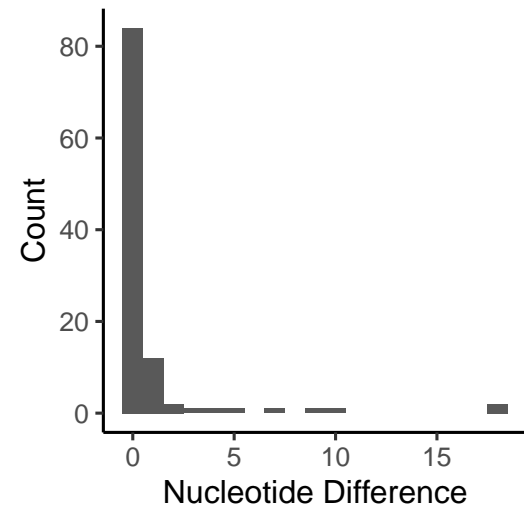
IGHV4–61*10

1 sequences assigned
No exact matches.



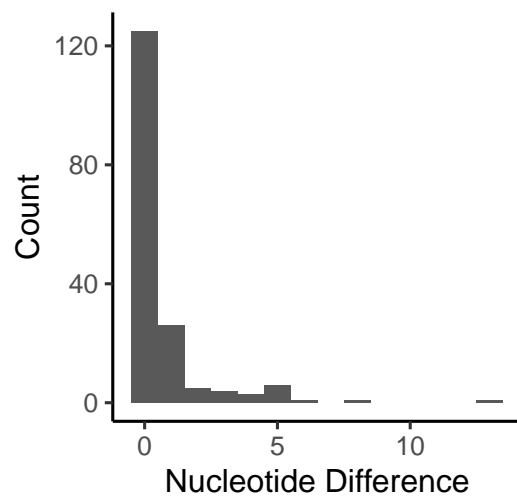
IGHV5–51*03

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



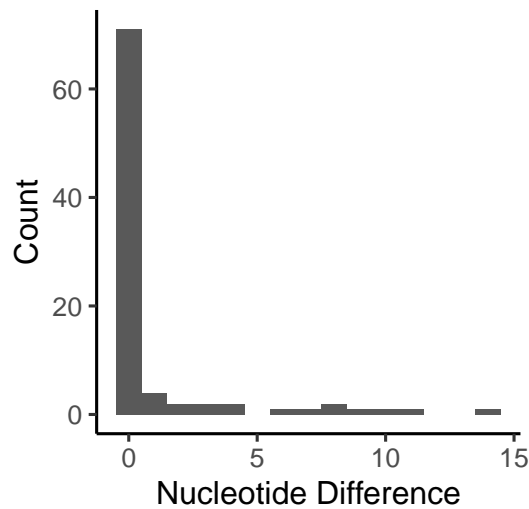
IGHV4–59*08

172 sequences assigned
125 (72.7%) exact matches, in which:
124 unique CDR3
7 unique J



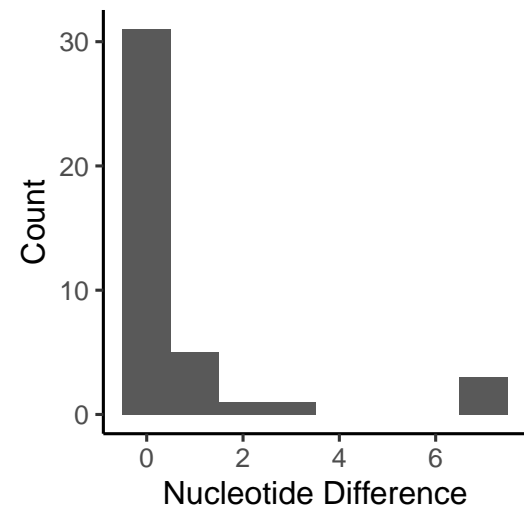
IGHV5–10–1*01

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



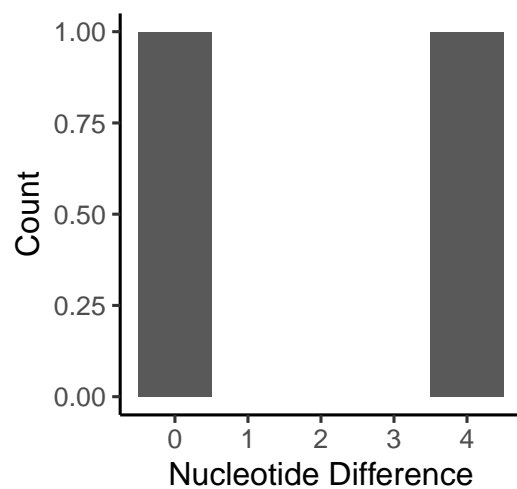
IGHV6–1*01

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



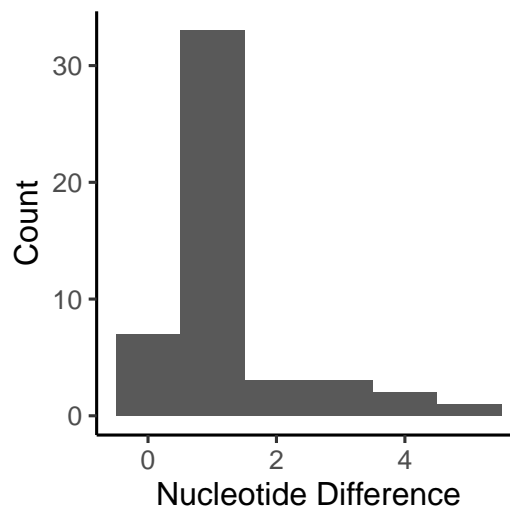
IGHV4–61*07

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



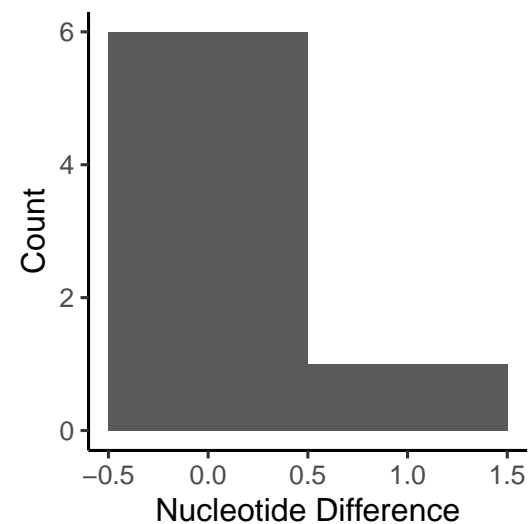
IGHV5–51*01

49 sequences assigned
7 (14.3%) exact matches, in which:
7 unique CDR3
4 unique J

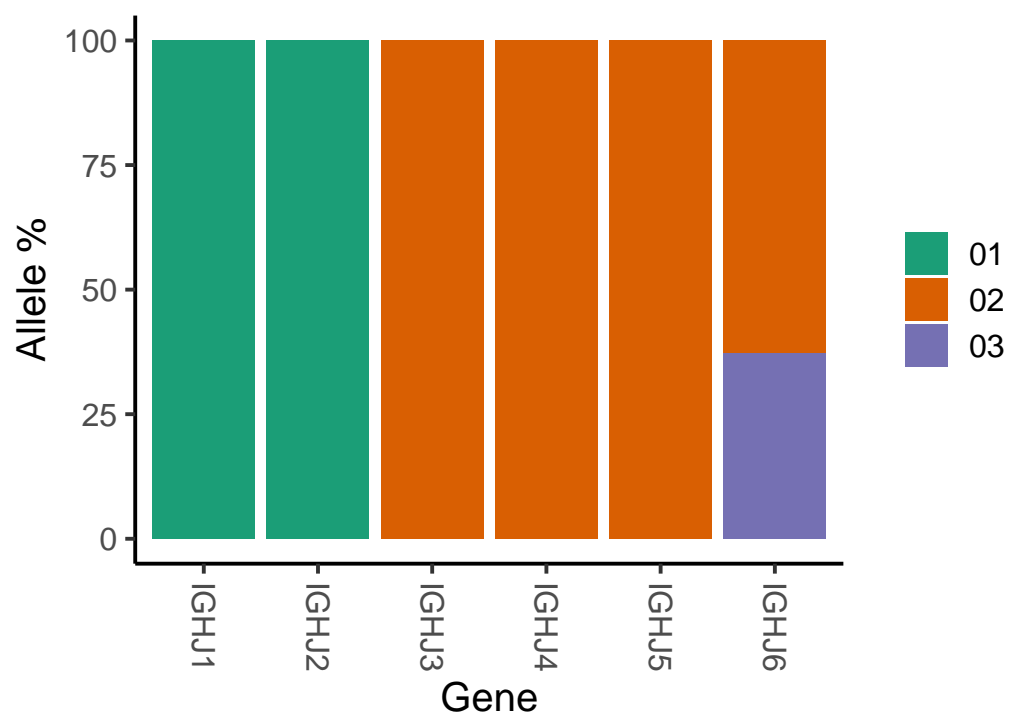


IGHV7–4–1*01

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.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.