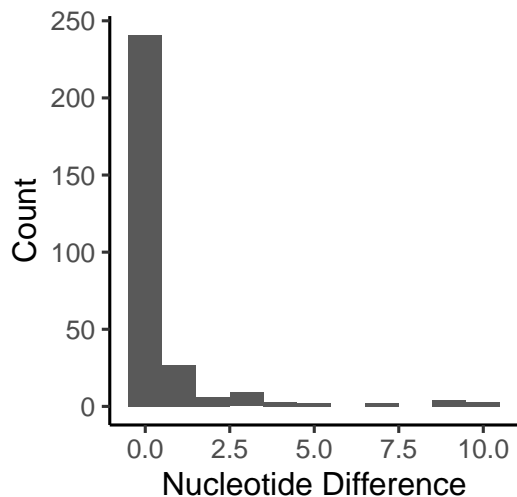


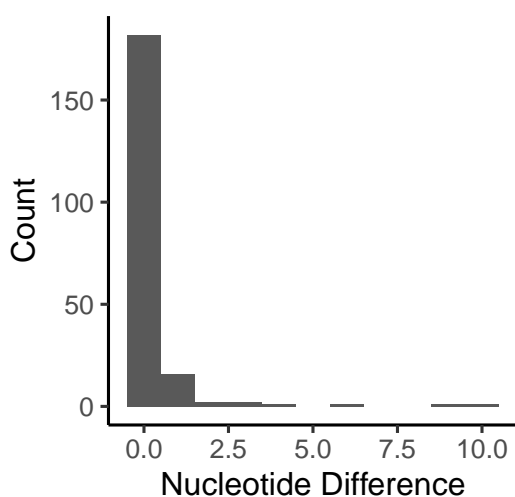
IGHV1-2*02

297 sequences assigned
241 (81.1%) exact matches, in which:
239 unique CDR3
6 unique J



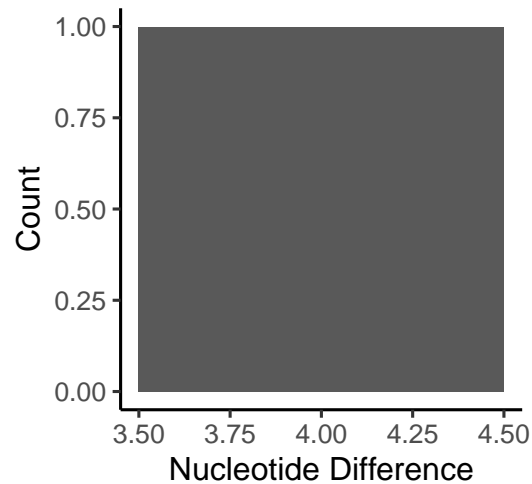
IGHV1-8*01

208 sequences assigned
182 (87.5%) exact matches, in which:
180 unique CDR3
5 unique J



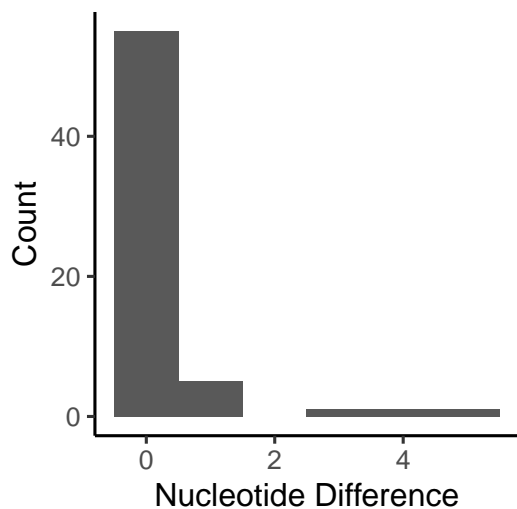
IGHV1-45*02

1 sequences assigned
No exact matches.



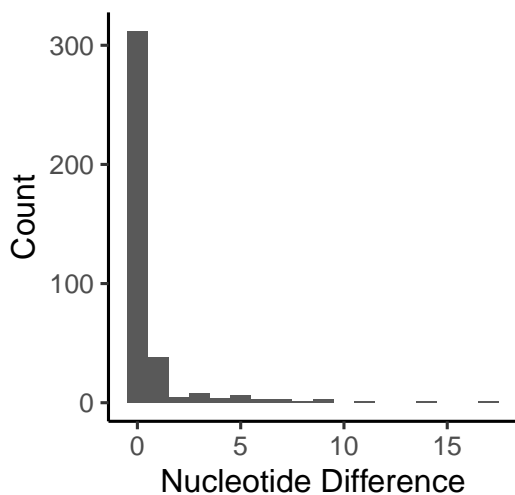
IGHV1-2*04

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



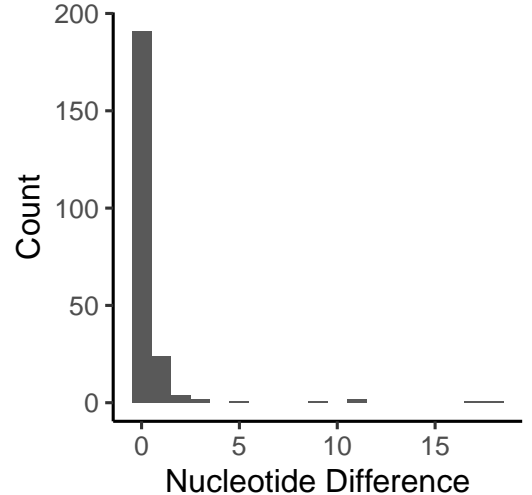
IGHV1-18*01

388 sequences assigned
312 (80.4%) exact matches, in which:
308 unique CDR3
7 unique J



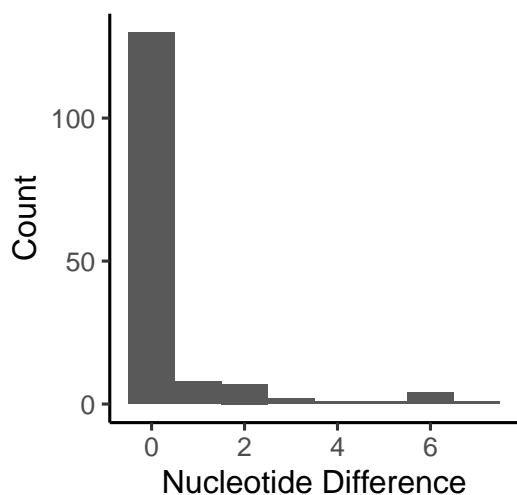
IGHV1-46*01

227 sequences assigned
191 (84.1%) exact matches, in which:
190 unique CDR3
6 unique J



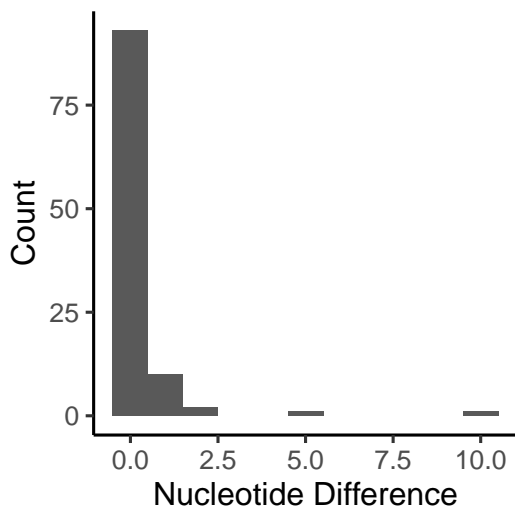
IGHV1-3*01

154 sequences assigned
130 (84.4%) exact matches, in which:
130 unique CDR3
6 unique J



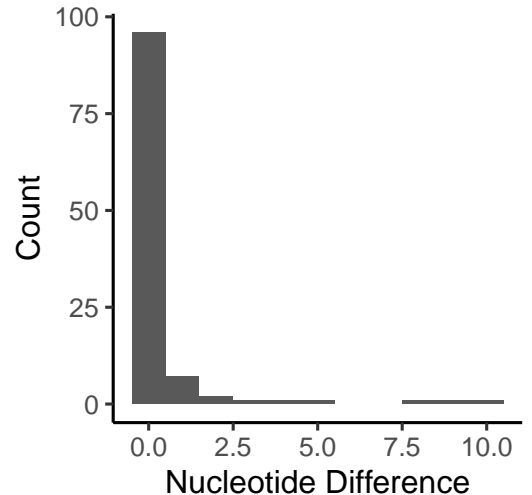
IGHV1-24*01

107 sequences assigned
93 (86.9%) exact matches, in which:
92 unique CDR3
7 unique J



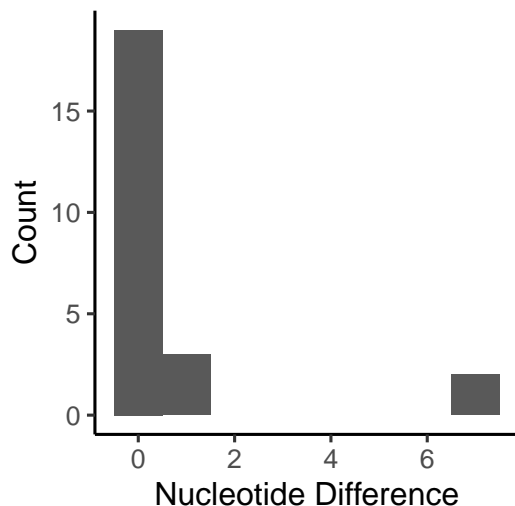
IGHV1-46*03

111 sequences assigned
96 (86.5%) exact matches, in which:
96 unique CDR3
6 unique J



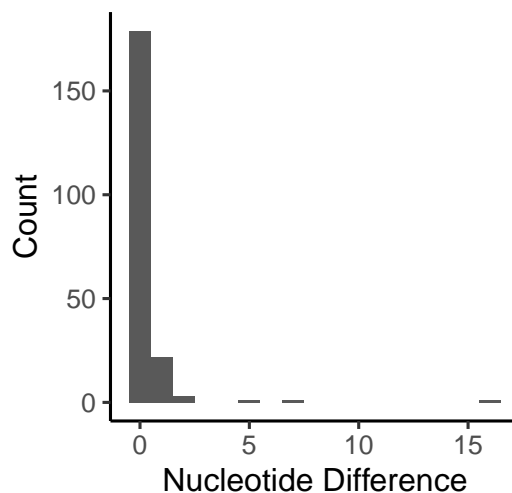
IGHV1-58*01

24 sequences assigned
19 (79.2%) exact matches, in which:
19 unique CDR3
5 unique J



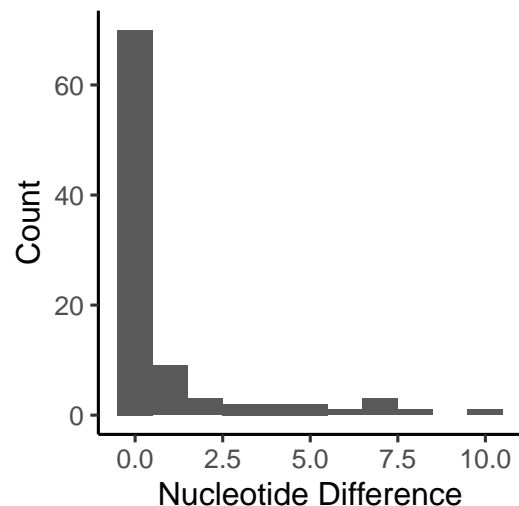
IGHV1-69*08_C191T

207 sequences assigned
179 (86.5%) exact matches, in which:
178 unique CDR3
6 unique J



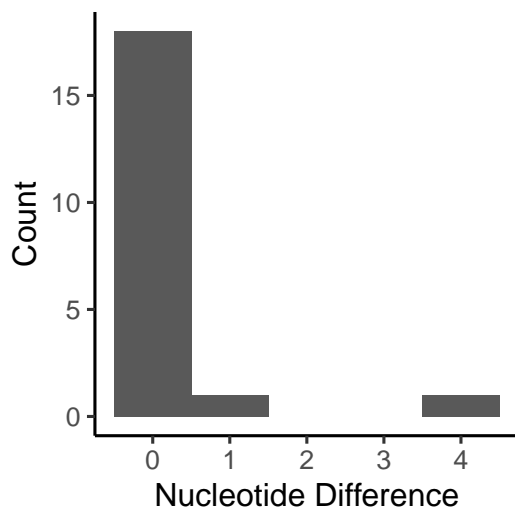
IGHV2-5*02

94 sequences assigned
70 (74.5%) exact matches, in which:
70 unique CDR3
6 unique J



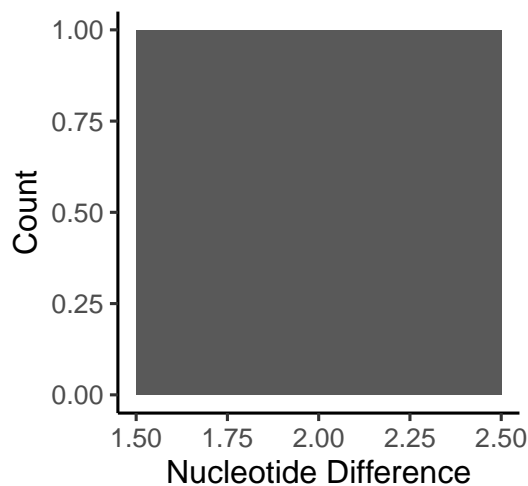
IGHV1-58*02

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



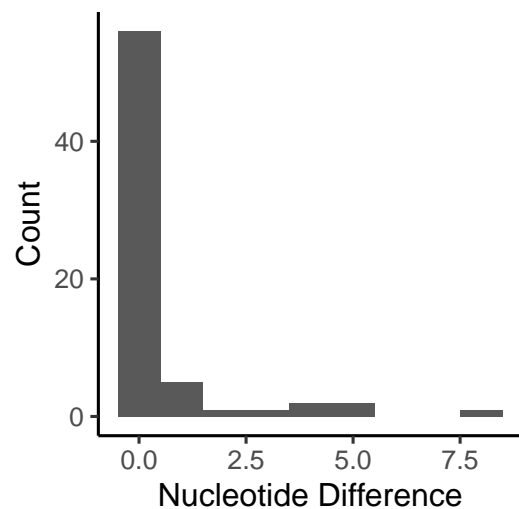
IGHV1-69D*01

1 sequences assigned
No exact matches.



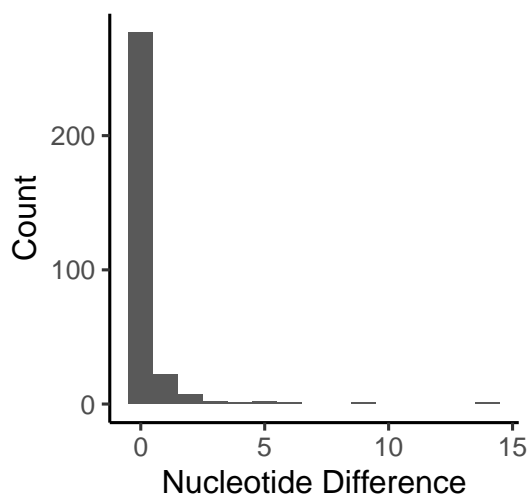
IGHV2-26*01

68 sequences assigned
56 (82.4%) exact matches, in which:
56 unique CDR3
7 unique J



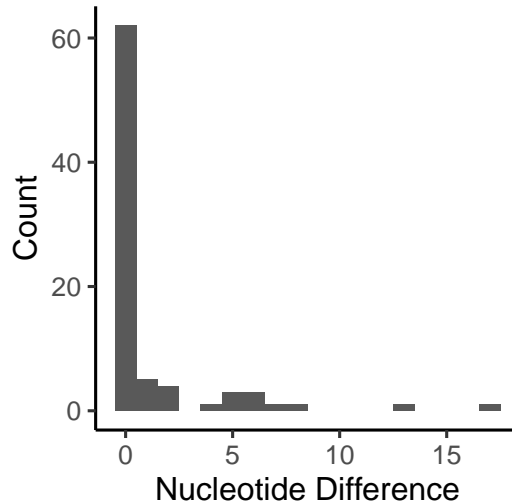
IGHV1-69*04

314 sequences assigned
277 (88.2%) exact matches, in which:
275 unique CDR3
6 unique J



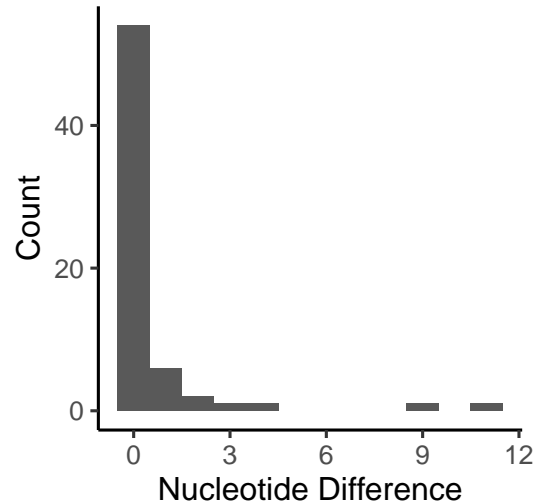
IGHV2-5*01

82 sequences assigned
62 (75.6%) exact matches, in which:
61 unique CDR3
5 unique J



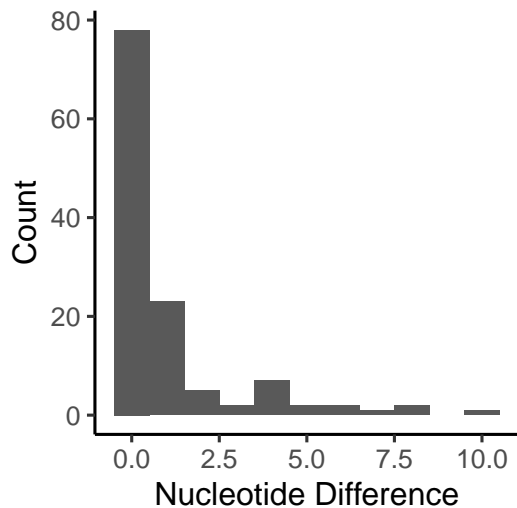
IGHV2-70*15

66 sequences assigned
54 (81.8%) exact matches, in which:
54 unique CDR3
5 unique J



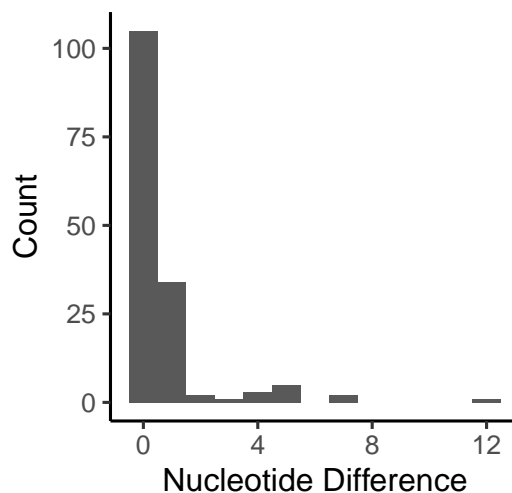
IGHV3-7*01

124 sequences assigned
78 (62.9%) exact matches, in which:
78 unique CDR3
5 unique J



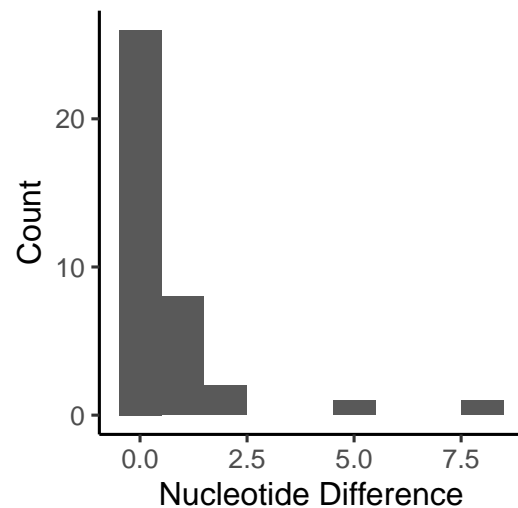
IGHV3-11*01

153 sequences assigned
105 (68.6%) exact matches, in which:
104 unique CDR3
5 unique J



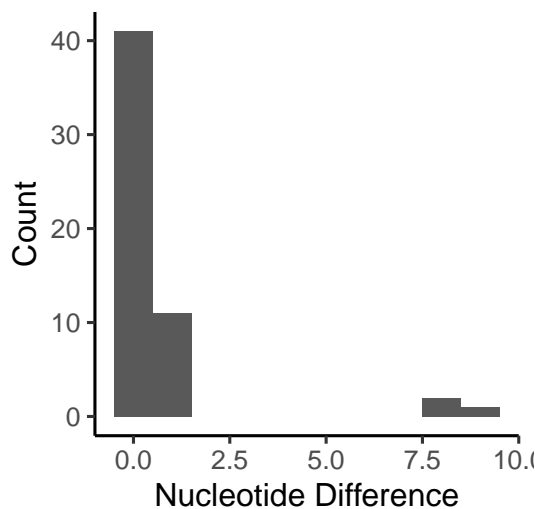
IGHV3-13*04

38 sequences assigned
26 (68.4%) exact matches, in which:
26 unique CDR3
5 unique J



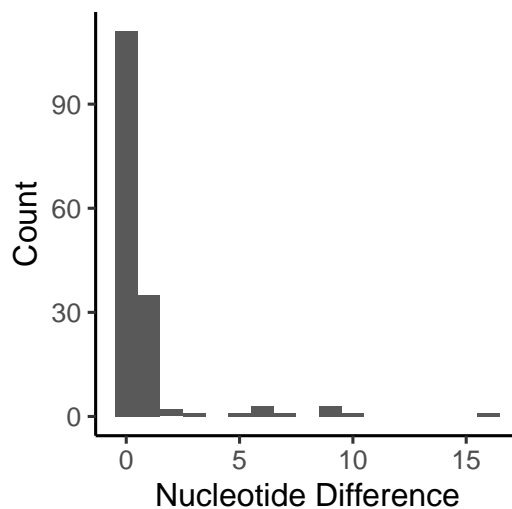
IGHV3-7*04

55 sequences assigned
41 (74.5%) exact matches, in which:
41 unique CDR3
5 unique J



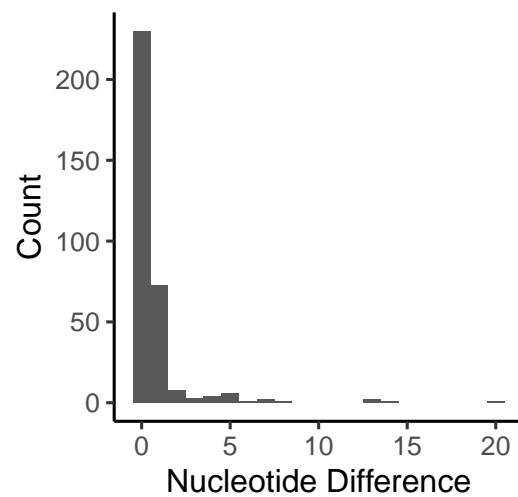
IGHV3-11*05

159 sequences assigned
111 (69.8%) exact matches, in which:
109 unique CDR3
7 unique J



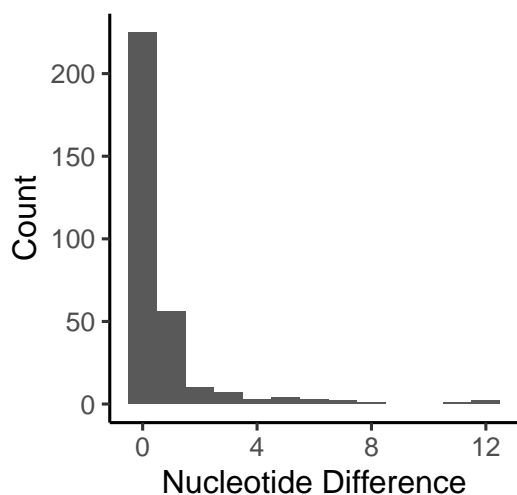
IGHV3-15*01

332 sequences assigned
230 (69.3%) exact matches, in which:
228 unique CDR3
7 unique J



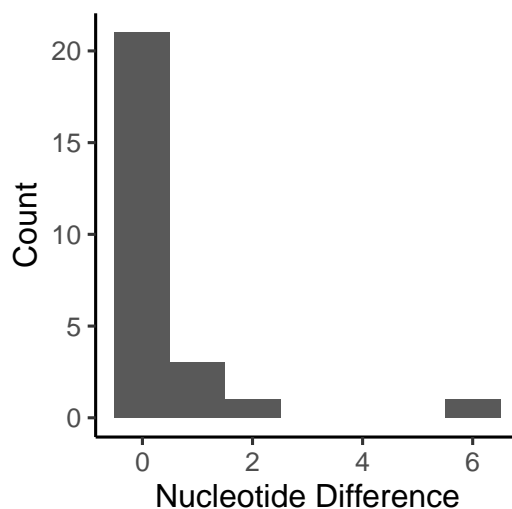
IGHV3-9*01

314 sequences assigned
225 (71.7%) exact matches, in which:
222 unique CDR3
6 unique J



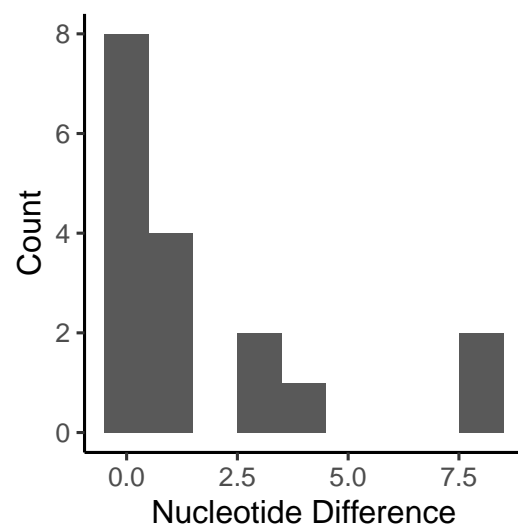
IGHV3-13*01

26 sequences assigned
21 (80.8%) exact matches, in which:
21 unique CDR3
4 unique J



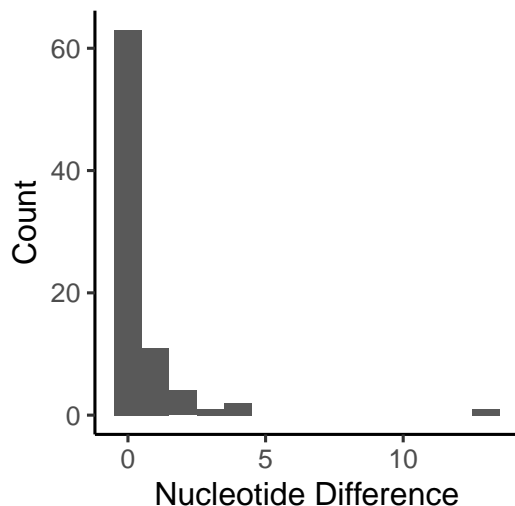
IGHV3-20*01

17 sequences assigned
8 (47.1%) exact matches, in which:
8 unique CDR3
4 unique J



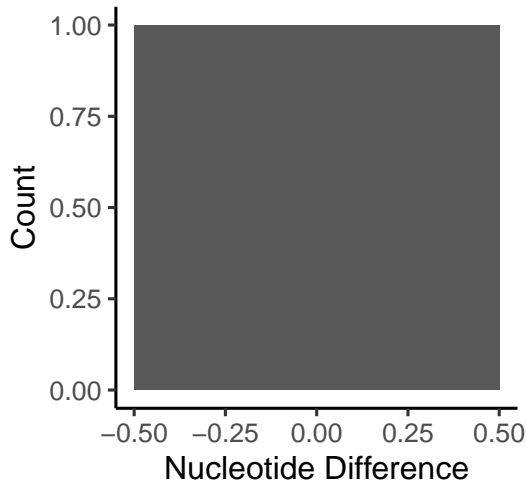
IGHV3-20*04

82 sequences assigned
63 (76.8%) exact matches, in which:
61 unique CDR3
5 unique J



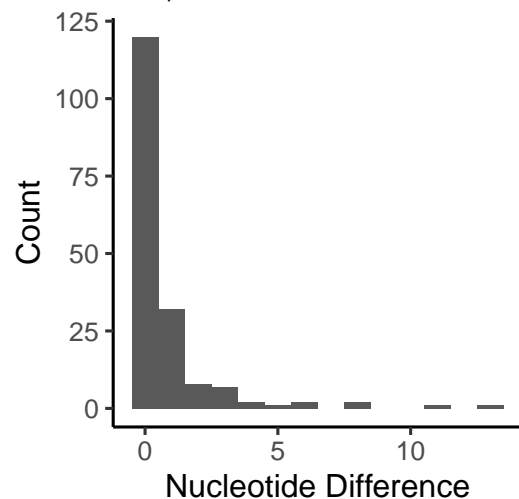
IGHV3-35*01

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



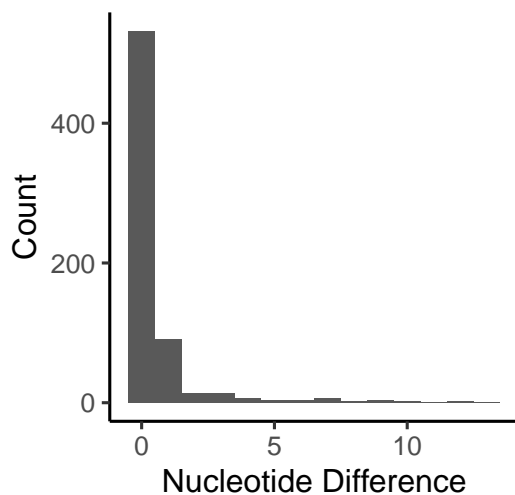
IGHV3-48*01

176 sequences assigned
120 (68.2%) exact matches, in which:
119 unique CDR3
6 unique J



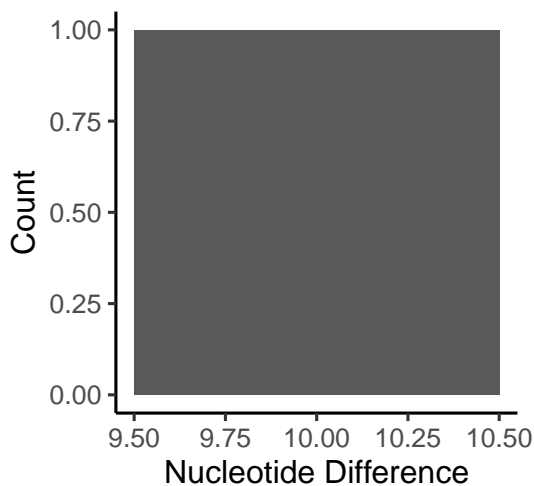
IGHV3-21*01

685 sequences assigned
532 (77.7%) exact matches, in which:
528 unique CDR3
7 unique J



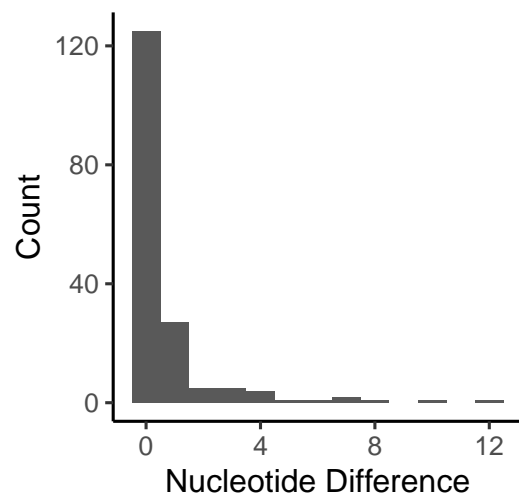
IGHV3-38-3*01

1 sequences assigned
No exact matches.



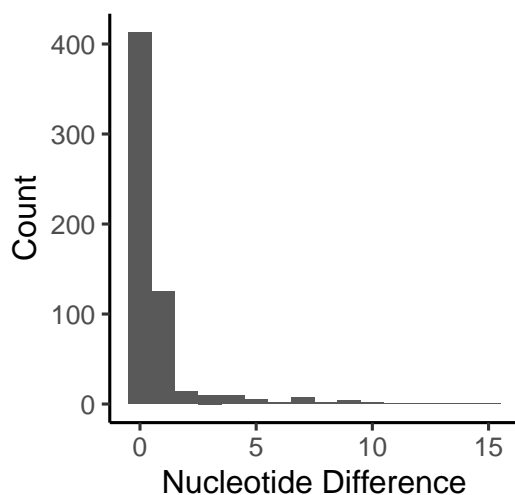
IGHV3-48*02

174 sequences assigned
125 (71.8%) exact matches, in which:
124 unique CDR3
5 unique J



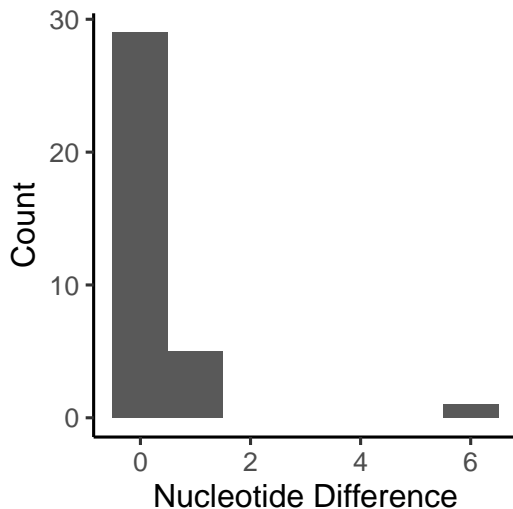
IGHV3-33*01

599 sequences assigned
413 (68.9%) exact matches, in which:
404 unique CDR3
7 unique J



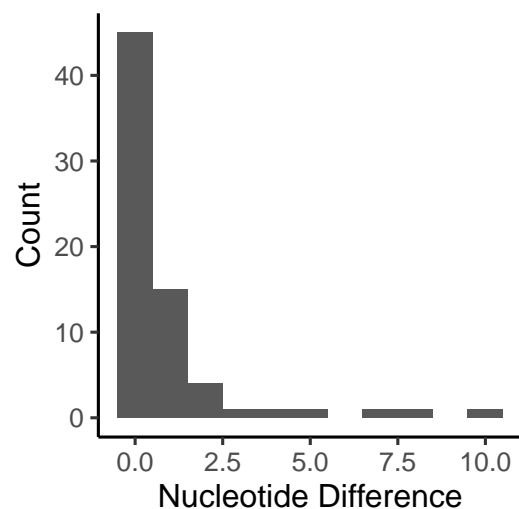
IGHV3-43*01

35 sequences assigned
29 (82.9%) exact matches, in which:
29 unique CDR3
6 unique J



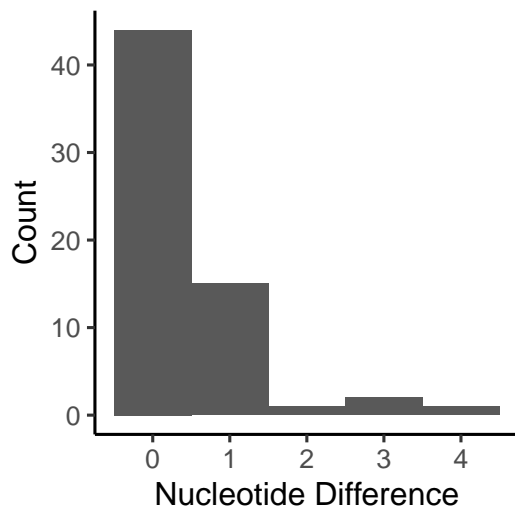
IGHV3-49*03

70 sequences assigned
45 (64.3%) exact matches, in which:
43 unique CDR3
4 unique J



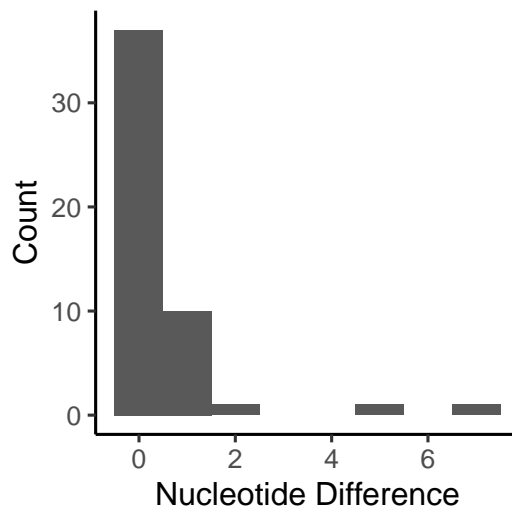
IGHV3-49*05

63 sequences assigned
44 (69.8%) exact matches, in which:
44 unique CDR3
4 unique J



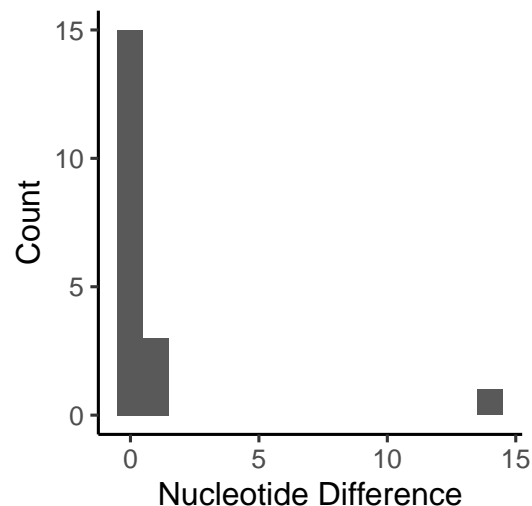
IGHV3-53*04

50 sequences assigned
37 (74%) exact matches, in which:
37 unique CDR3
5 unique J



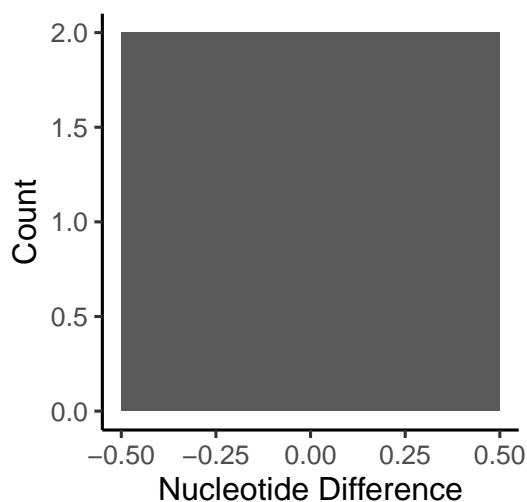
IGHV3-72*01

19 sequences assigned
15 (78.9%) exact matches, in which:
15 unique CDR3
5 unique J



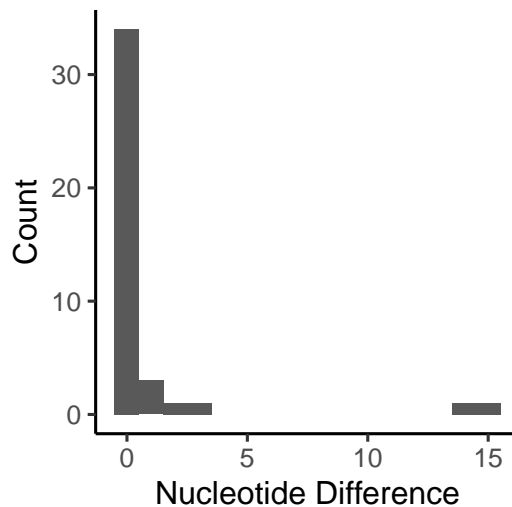
IGHV3-52*01

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



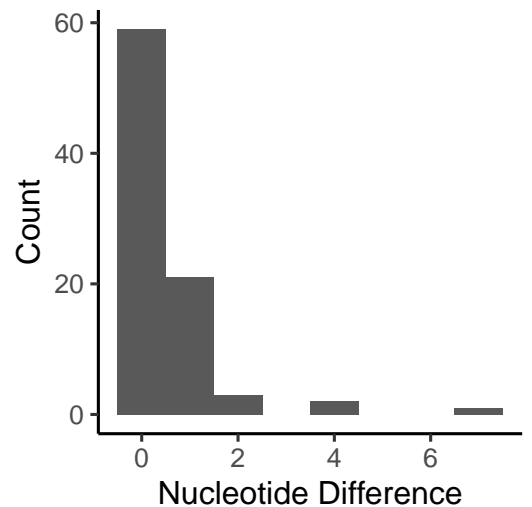
IGHV3-64*01

41 sequences assigned
34 (82.9%) exact matches, in which:
33 unique CDR3
4 unique J



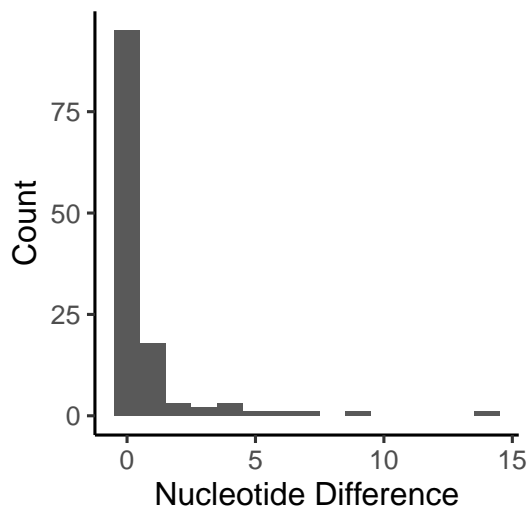
IGHV3-73*01

86 sequences assigned
59 (68.6%) exact matches, in which:
59 unique CDR3
5 unique J



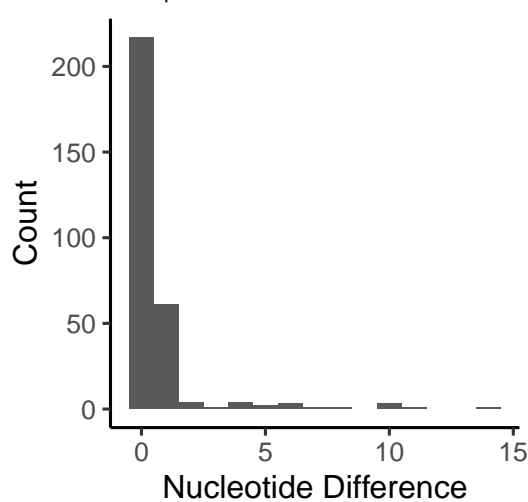
IGHV3-53*01

126 sequences assigned
95 (75.4%) exact matches, in which:
95 unique CDR3
7 unique J



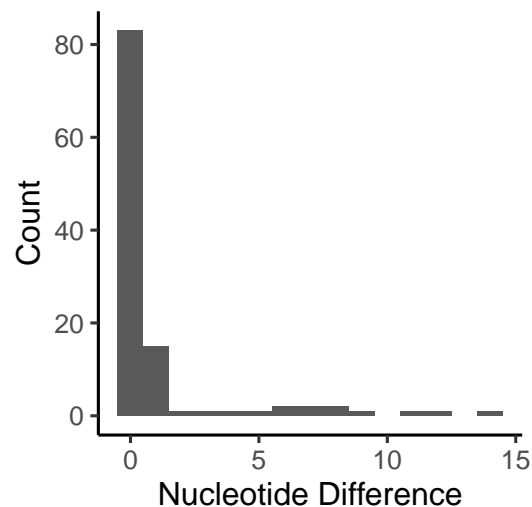
IGHV3-66*01

301 sequences assigned
217 (72.1%) exact matches, in which:
213 unique CDR3
7 unique J



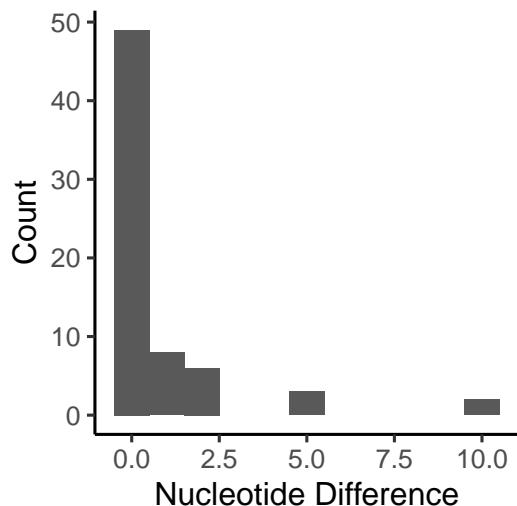
IGHV3-74*01

113 sequences assigned
83 (73.5%) exact matches, in which:
83 unique CDR3
6 unique J



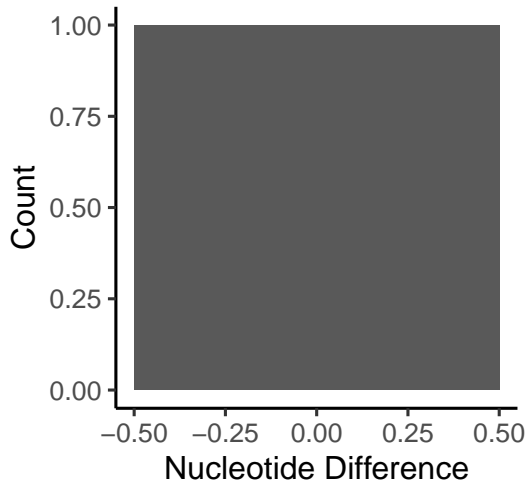
IGHV3-64D*06

68 sequences assigned
49 (72.1%) exact matches, in which:
48 unique CDR3
4 unique J



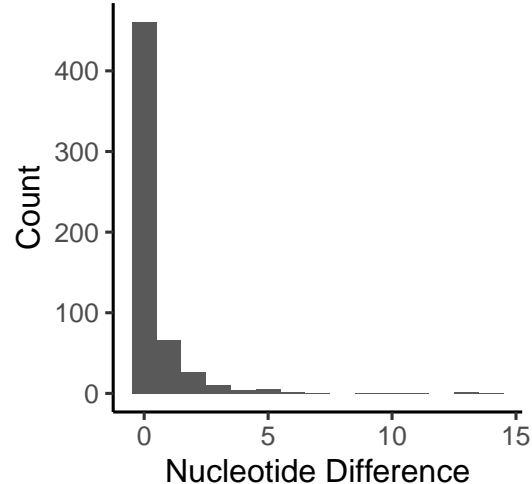
IGHV4-28*01

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



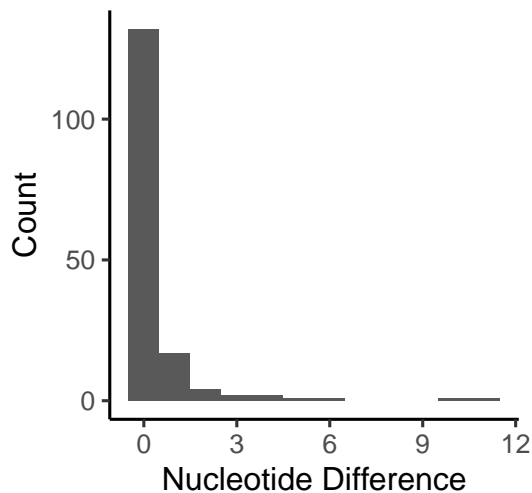
IGHV4-34*01

584 sequences assigned
461 (78.9%) exact matches, in which:
455 unique CDR3
7 unique J



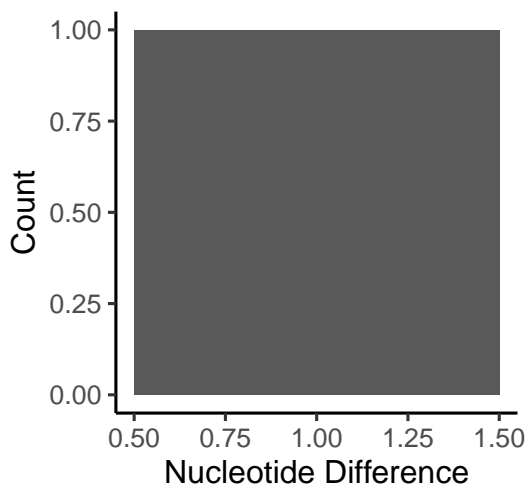
IGHV4-4*02

161 sequences assigned
132 (82%) exact matches, in which:
132 unique CDR3
6 unique J



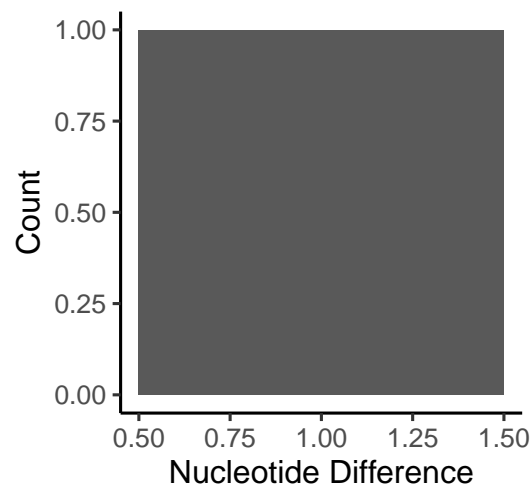
IGHV4-30-2*03

1 sequences assigned
No exact matches.



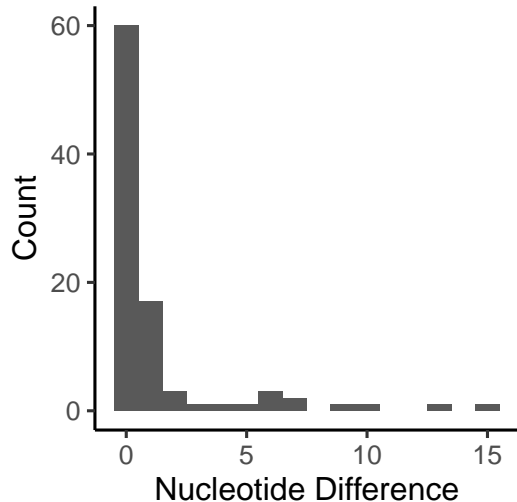
IGHV4-38-2*02

1 sequences assigned
No exact matches.



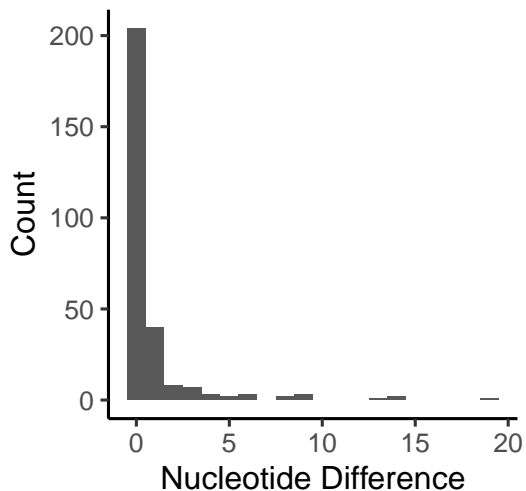
IGHV4-4*07

94 sequences assigned
60 (63.8%) exact matches, in which:
60 unique CDR3
6 unique J



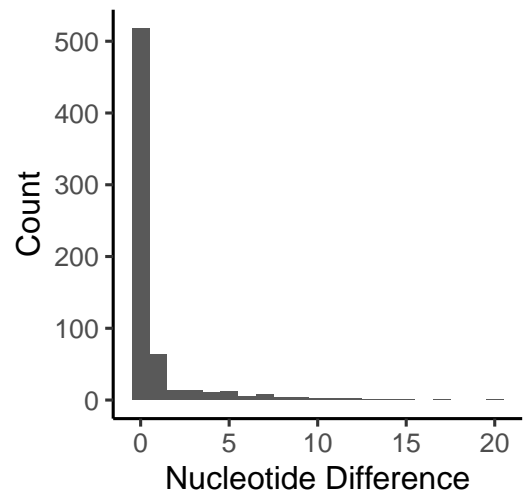
IGHV4-31*03

276 sequences assigned
204 (73.9%) exact matches, in which:
204 unique CDR3
7 unique J



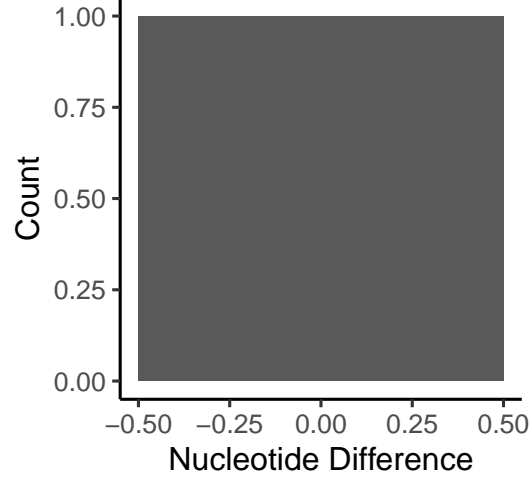
IGHV4-39*01

665 sequences assigned
518 (77.9%) exact matches, in which:
513 unique CDR3
7 unique J



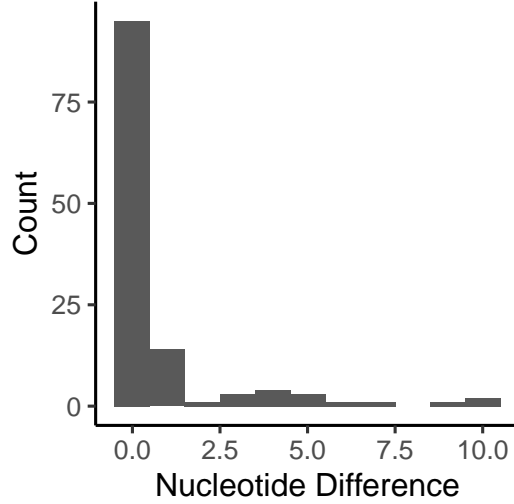
IGHV4–55*02

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



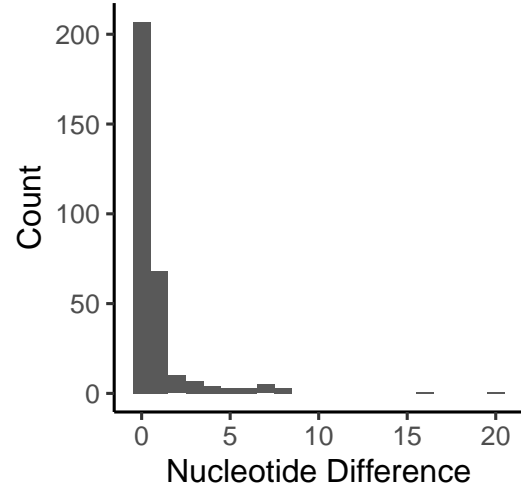
IGHV4–59*08

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



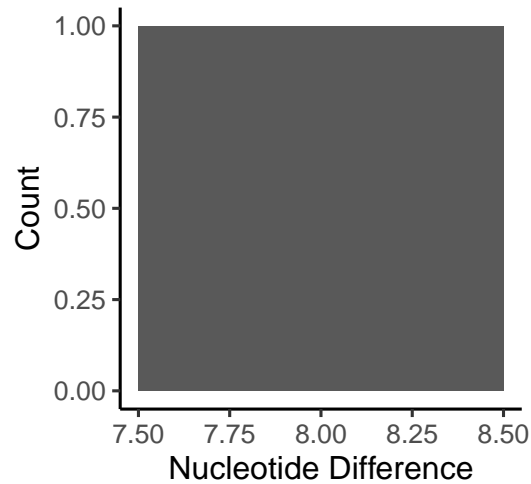
IGHV5–51*01

313 sequences assigned
207 (66.1%) exact matches, in which:
207 unique CDR3
7 unique J



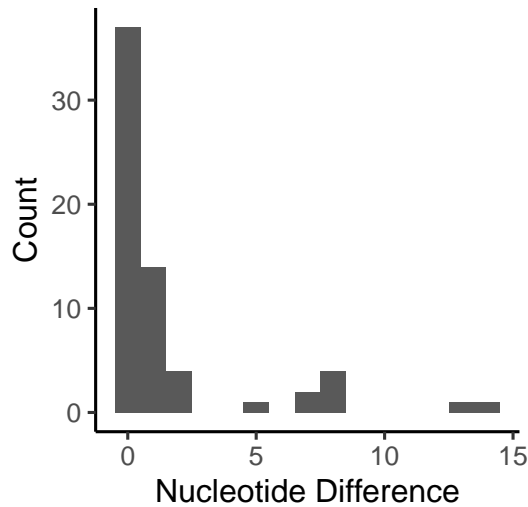
IGHV4–55*08

1 sequences assigned
No exact matches.



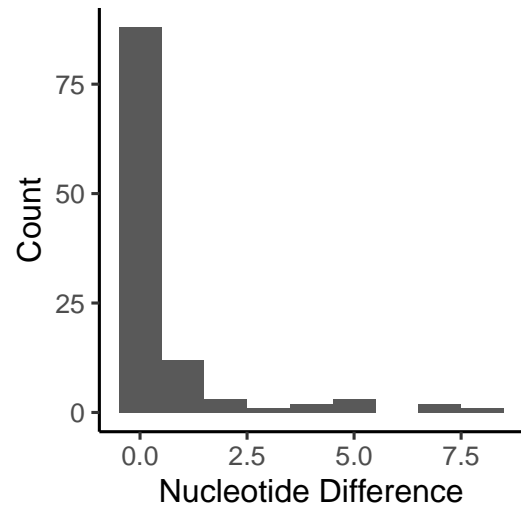
IGHV4–61*01

64 sequences assigned
37 (57.8%) exact matches, in which:
37 unique CDR3
4 unique J



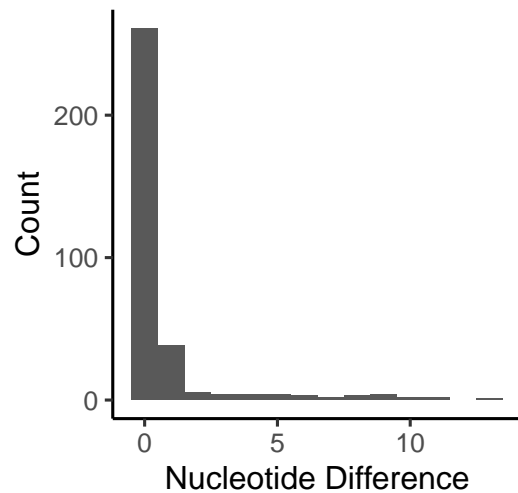
IGHV5–51*03

112 sequences assigned
88 (78.6%) exact matches, in which:
87 unique CDR3
6 unique J



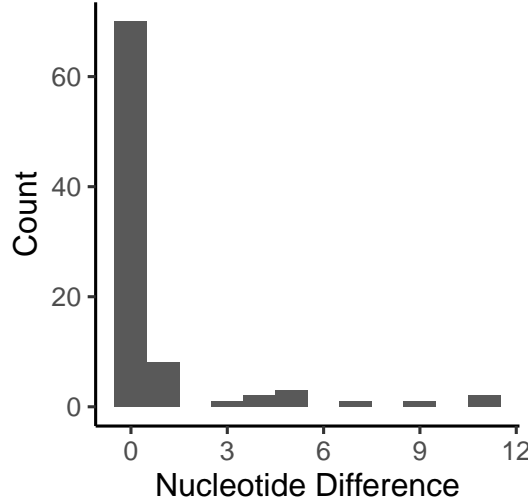
IGHV4–59*01

339 sequences assigned
261 (77%) exact matches, in which:
261 unique CDR3
7 unique J



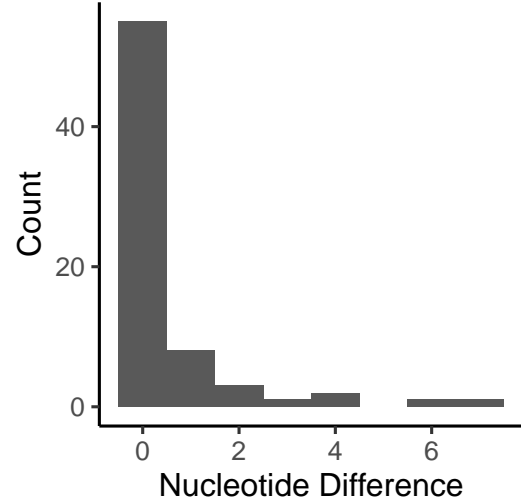
IGHV5–10–1*01

89 sequences assigned
70 (78.7%) exact matches, in which:
70 unique CDR3
4 unique J



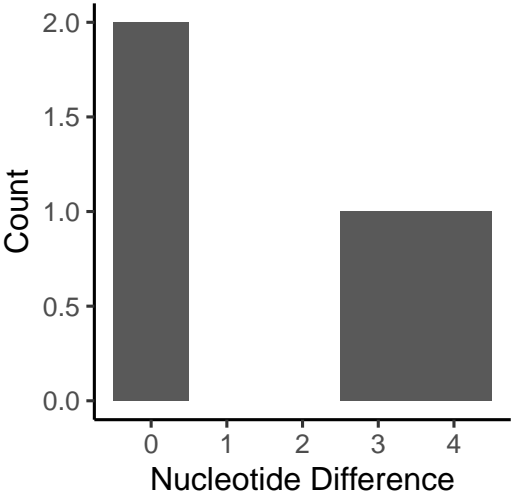
IGHV6–1*01

71 sequences assigned
55 (77.5%) exact matches, in which:
54 unique CDR3
7 unique J

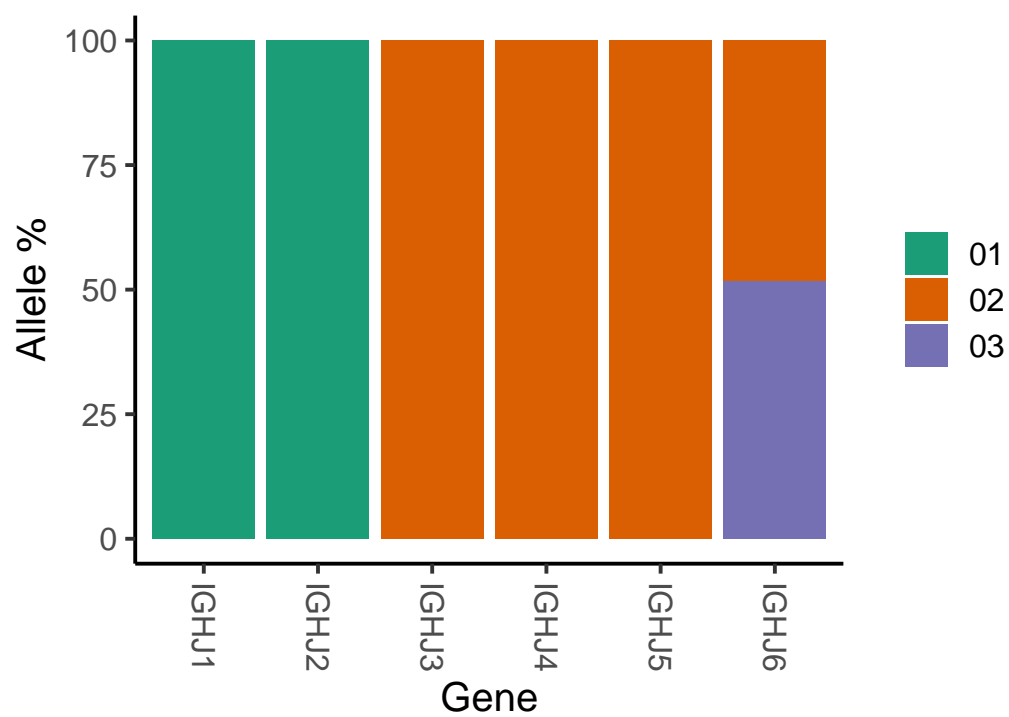


IGHV7-4-1*01

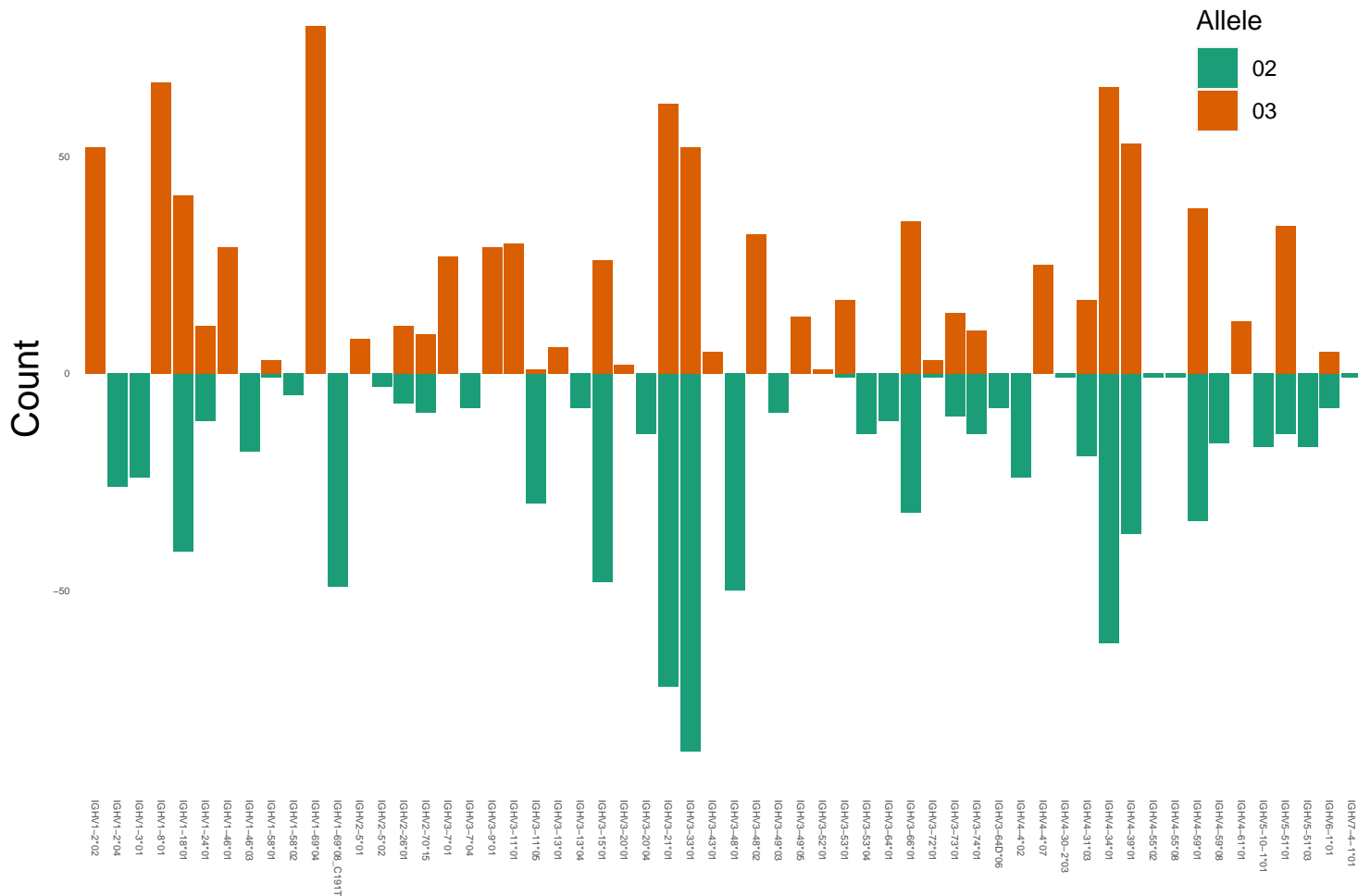
4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.