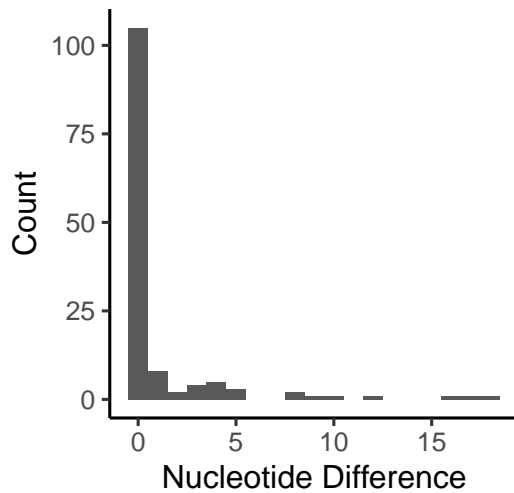


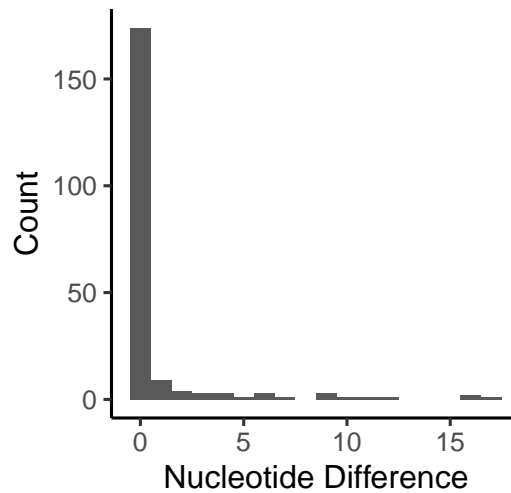
IGHV1–2*04

136 sequences assigned
105 (77.2%) exact matches, in which:
105 unique CDR3
6 unique J



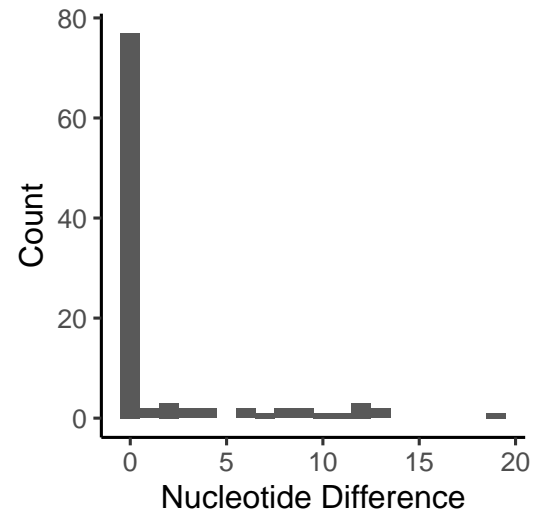
IGHV1–18*04

208 sequences assigned
174 (83.7%) exact matches, in which:
173 unique CDR3
4 unique J



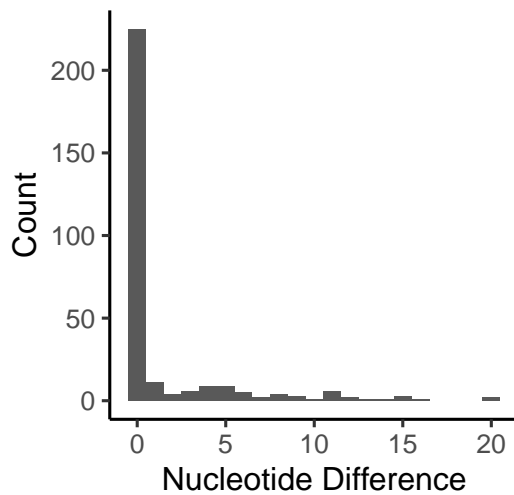
IGHV1–46*01

103 sequences assigned
77 (74.8%) exact matches, in which:
77 unique CDR3
5 unique J



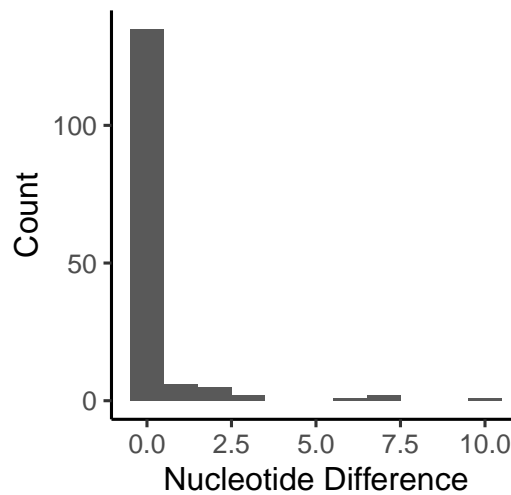
IGHV1–3*01

300 sequences assigned
225 (75%) exact matches, in which:
224 unique CDR3
7 unique J



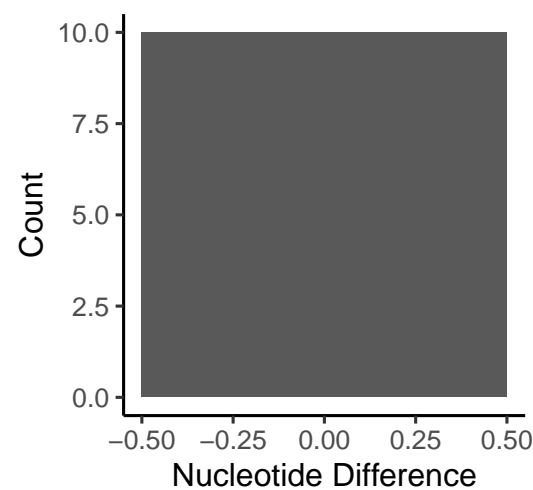
IGHV1–24*01

152 sequences assigned
135 (88.8%) exact matches, in which:
134 unique CDR3
7 unique J



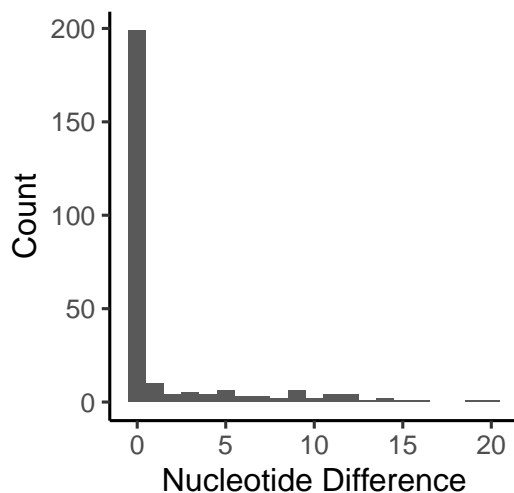
IGHV1–58*01

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
5 unique J



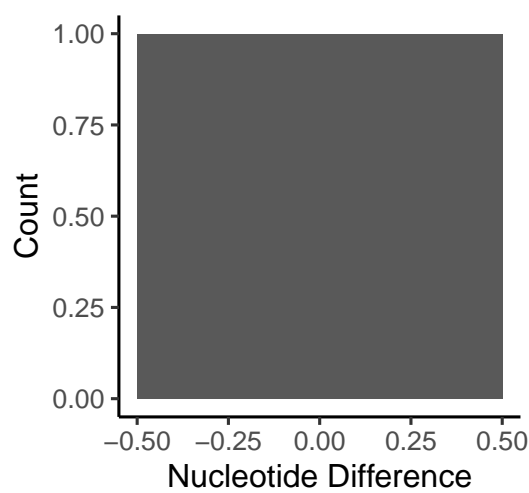
IGHV1–18*01

267 sequences assigned
199 (74.5%) exact matches, in which:
199 unique CDR3
6 unique J



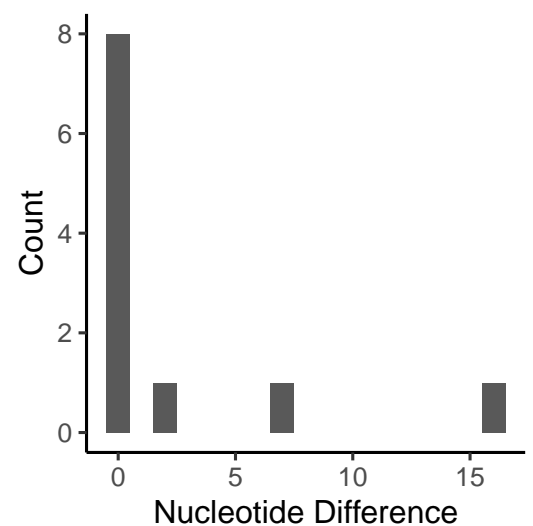
IGHV1–45*02

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



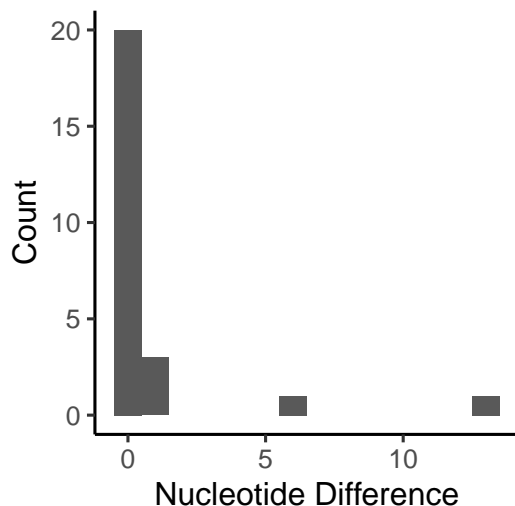
IGHV1–58*02

11 sequences assigned
8 (72.7%) exact matches, in which:
8 unique CDR3
3 unique J



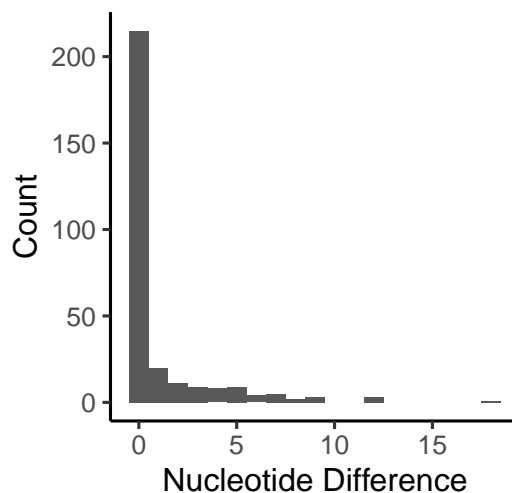
IGHV1-69-2*01

25 sequences assigned
20 (80%) exact matches, in which:
20 unique CDR3
4 unique J



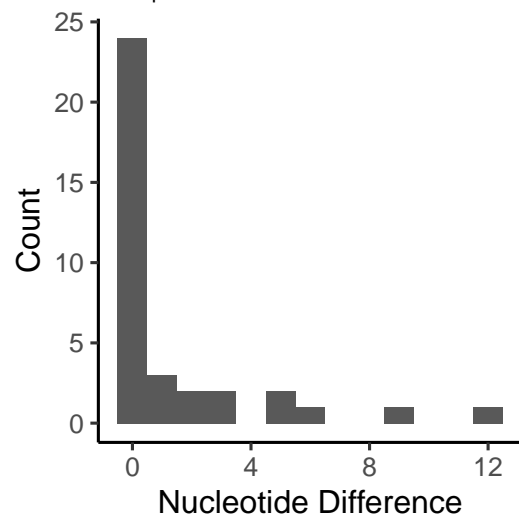
IGHV2-5*02

292 sequences assigned
215 (73.6%) exact matches, in which:
215 unique CDR3
7 unique J



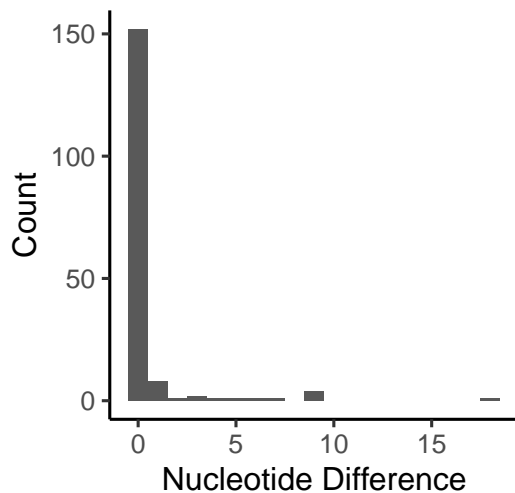
IGHV2-70*15

36 sequences assigned
24 (66.7%) exact matches, in which:
24 unique CDR3
4 unique J



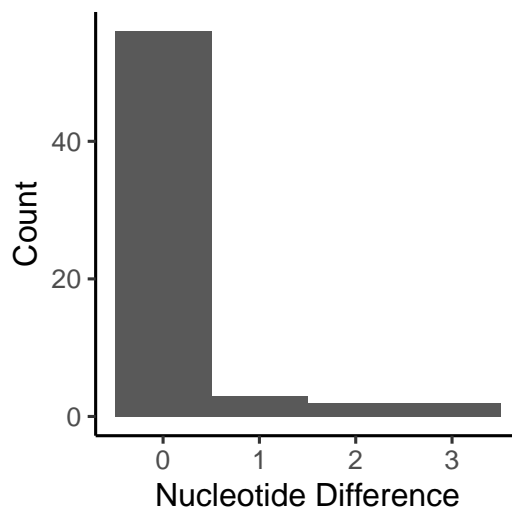
IGHV1-69*06

172 sequences assigned
152 (88.4%) exact matches, in which:
152 unique CDR3
6 unique J



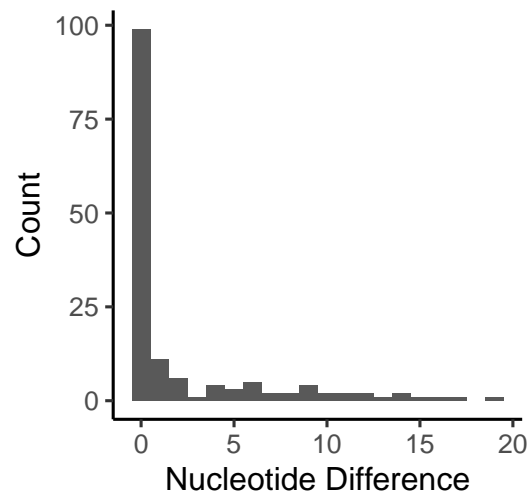
IGHV2-26*01

64 sequences assigned
56 (87.5%) exact matches, in which:
56 unique CDR3
6 unique J



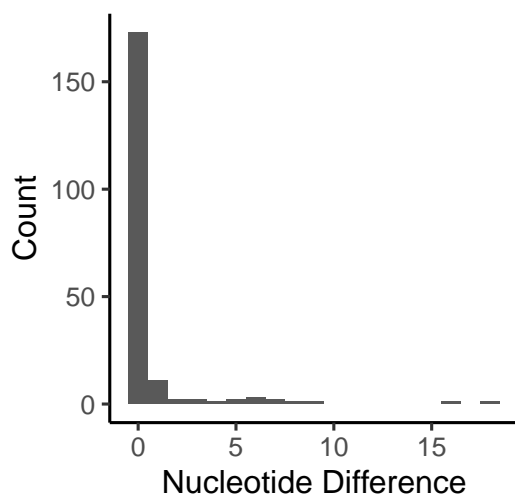
IGHV3-7*03

153 sequences assigned
99 (64.7%) exact matches, in which:
99 unique CDR3
6 unique J



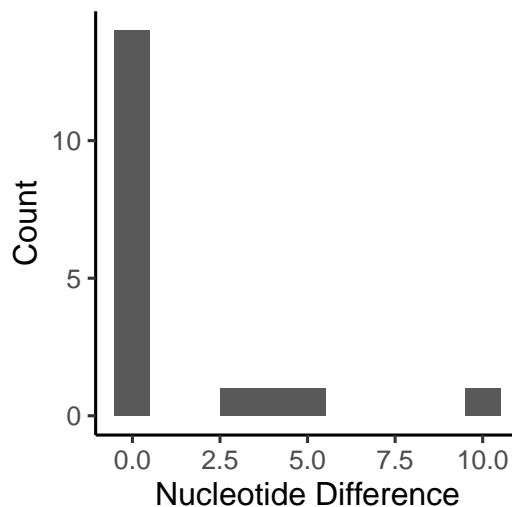
IGHV1-69*04_A163G

200 sequences assigned
173 (86.5%) exact matches, in which:
173 unique CDR3
6 unique J



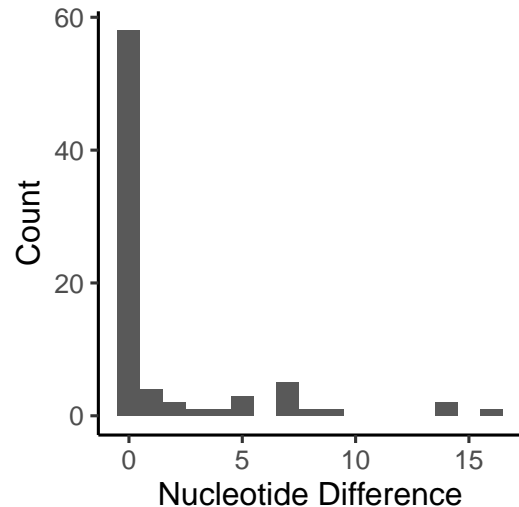
IGHV2-70*01

18 sequences assigned
14 (77.8%) exact matches, in which:
14 unique CDR3
5 unique J



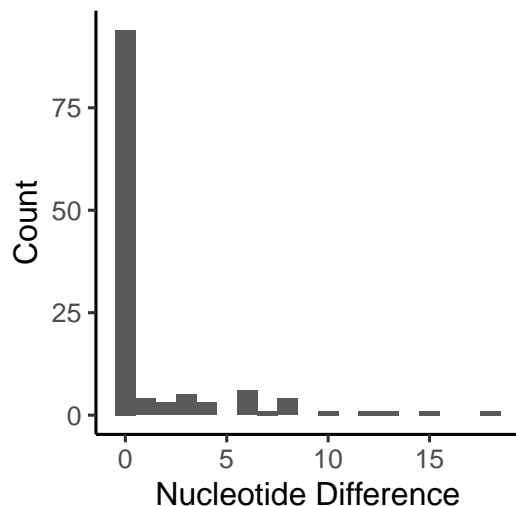
IGHV3-7*04

79 sequences assigned
58 (73.4%) exact matches, in which:
58 unique CDR3
5 unique J



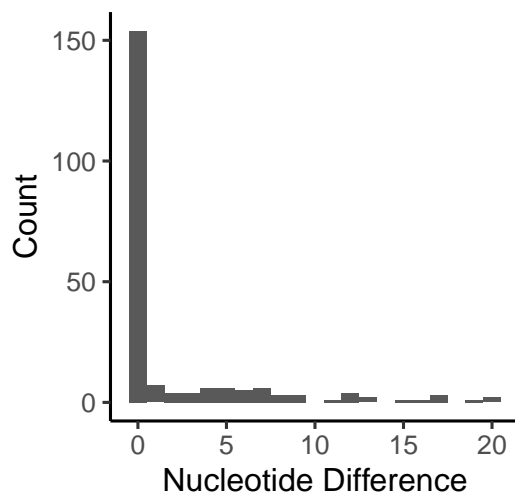
IGHV3-11*05

126 sequences assigned
94 (74.6%) exact matches, in which:
94 unique CDR3
6 unique J



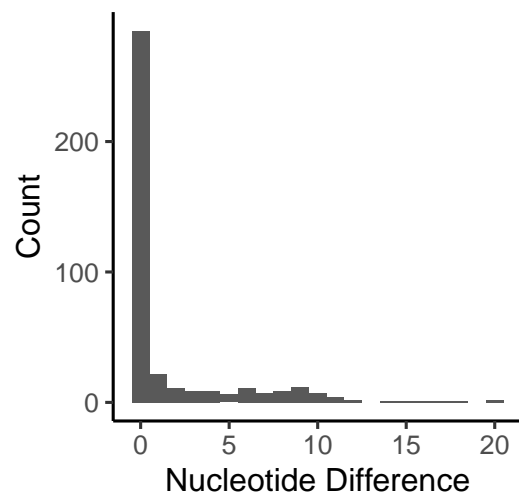
IGHV3-15*01

220 sequences assigned
154 (70%) exact matches, in which:
154 unique CDR3
7 unique J



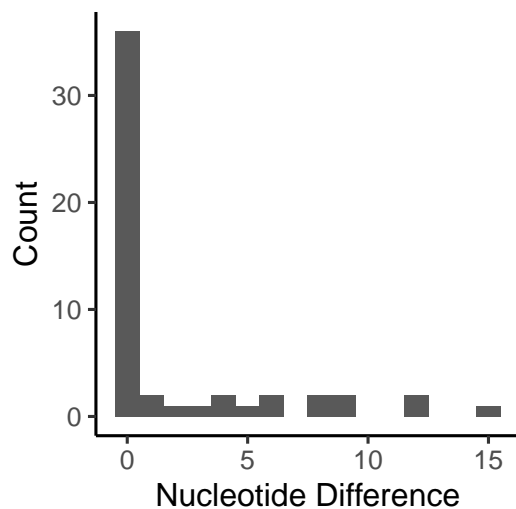
IGHV3-30-3*01

405 sequences assigned
285 (70.4%) exact matches, in which:
284 unique CDR3
7 unique J



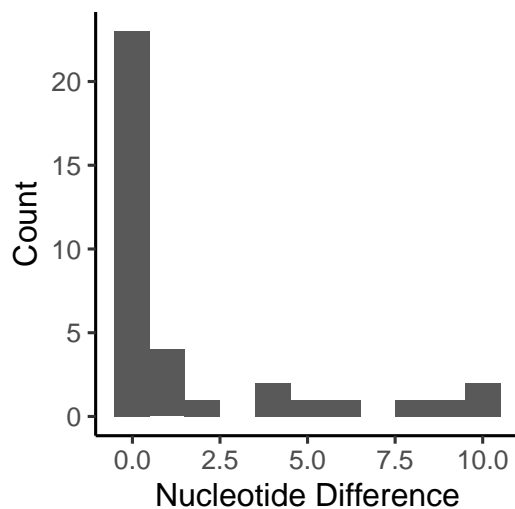
IGHV3-11*06

52 sequences assigned
36 (69.2%) exact matches, in which:
36 unique CDR3
5 unique J



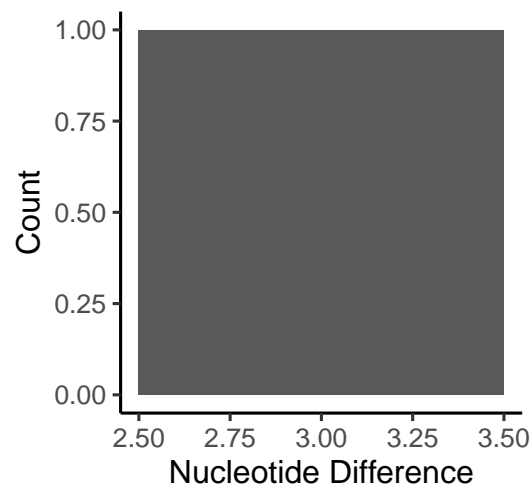
IGHV3-20*04

36 sequences assigned
23 (63.9%) exact matches, in which:
23 unique CDR3
5 unique J



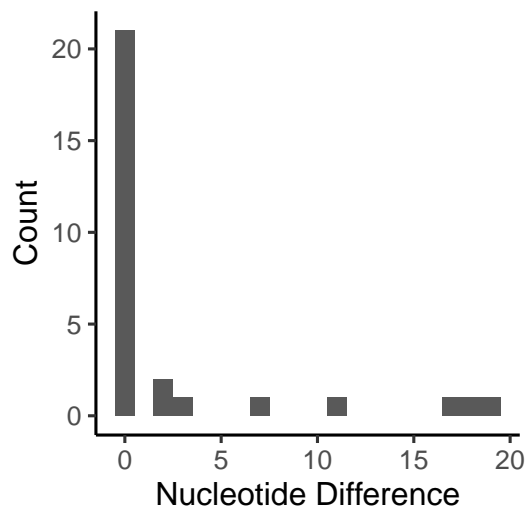
IGHV3-33*05

1 sequences assigned
No exact matches.



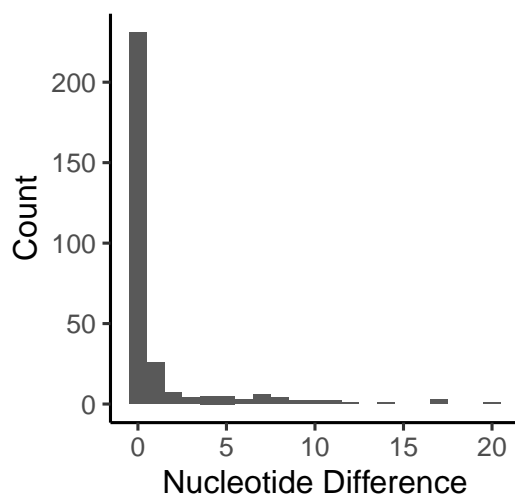
IGHV3-13*04

30 sequences assigned
21 (70%) exact matches, in which:
21 unique CDR3
5 unique J



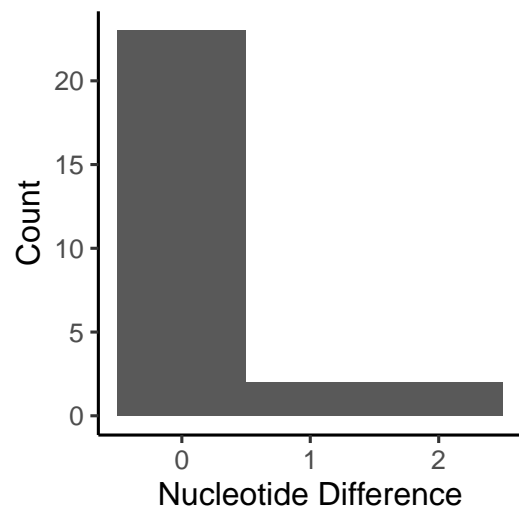
IGHV3-21*01

304 sequences assigned
231 (76%) exact matches, in which:
230 unique CDR3
7 unique J



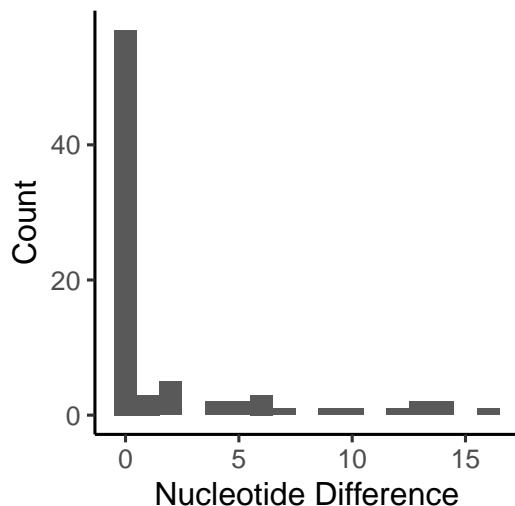
IGHV3-43*01

27 sequences assigned
23 (85.2%) exact matches, in which:
22 unique CDR3
5 unique J



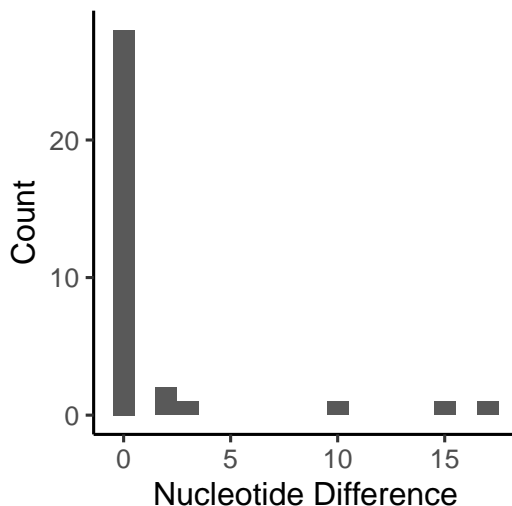
IGHV3-48*02

85 sequences assigned
57 (67.1%) exact matches, in which:
57 unique CDR3
6 unique J



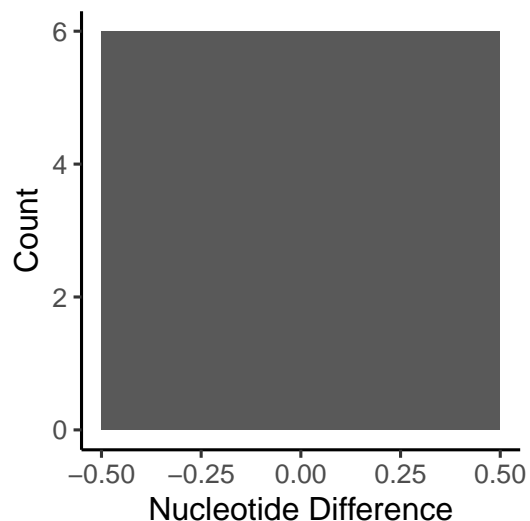
IGHV3-49*05

34 sequences assigned
28 (82.4%) exact matches, in which:
28 unique CDR3
4 unique J



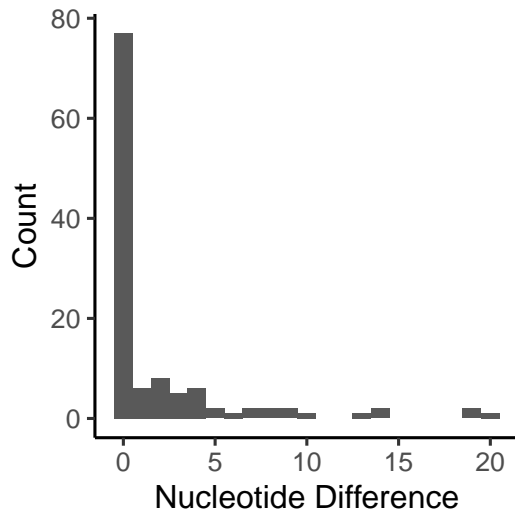
IGHV3-64*01

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



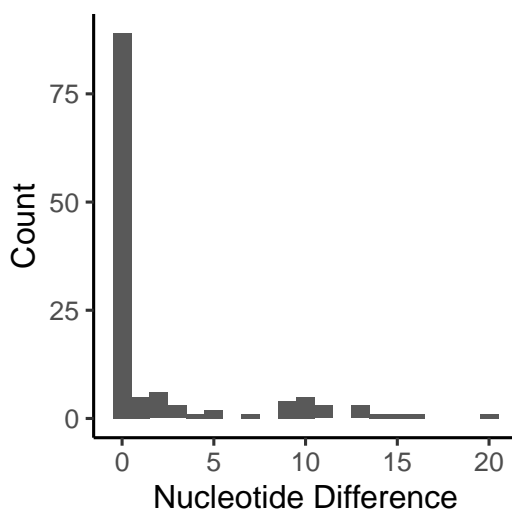
IGHV3-48*04

121 sequences assigned
77 (63.6%) exact matches, in which:
77 unique CDR3
5 unique J



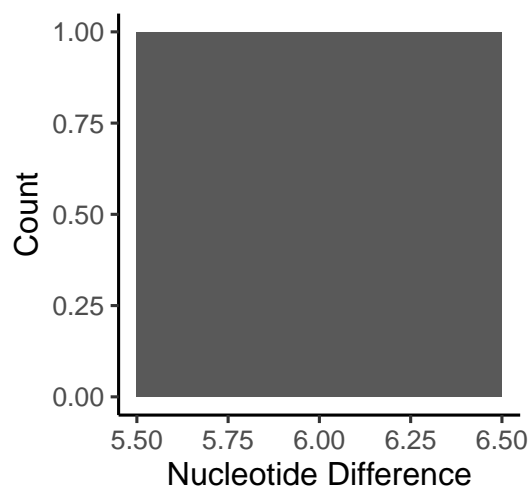
IGHV3-53*01

126 sequences assigned
89 (70.6%) exact matches, in which:
88 unique CDR3
5 unique J



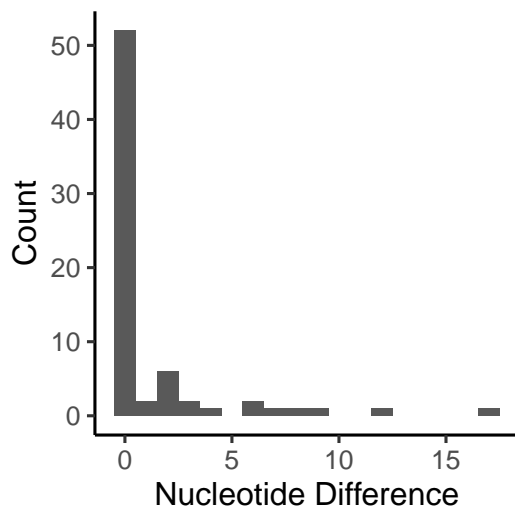
IGHV3-64*02

1 sequences assigned
No exact matches.



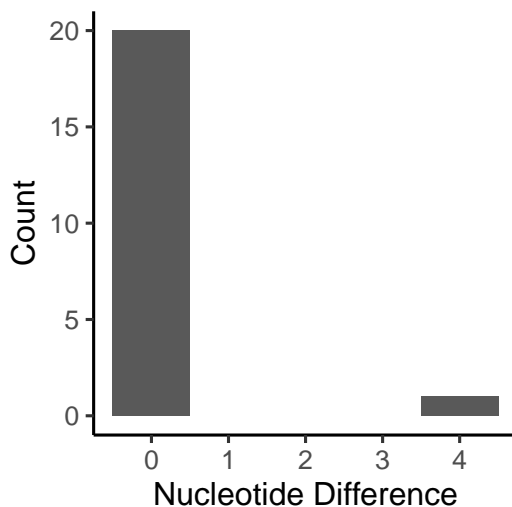
IGHV3-49*03

70 sequences assigned
52 (74.3%) exact matches, in which:
52 unique CDR3
6 unique J



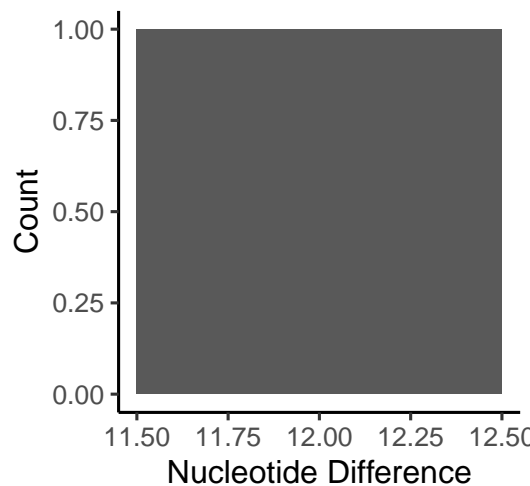
IGHV3-53*04

21 sequences assigned
20 (95.2%) exact matches, in which:
20 unique CDR3
5 unique J



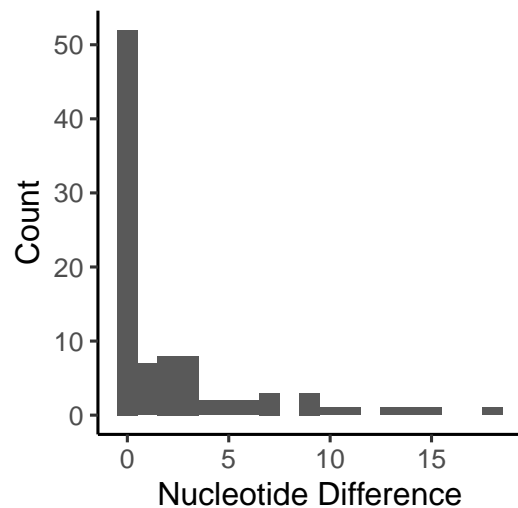
IGHV3-64*05

1 sequences assigned
No exact matches.



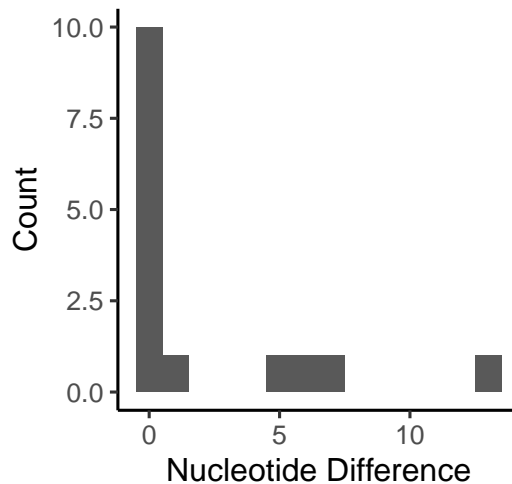
IGHV3-66*01

94 sequences assigned
52 (55.3%) exact matches, in which:
52 unique CDR3
5 unique J



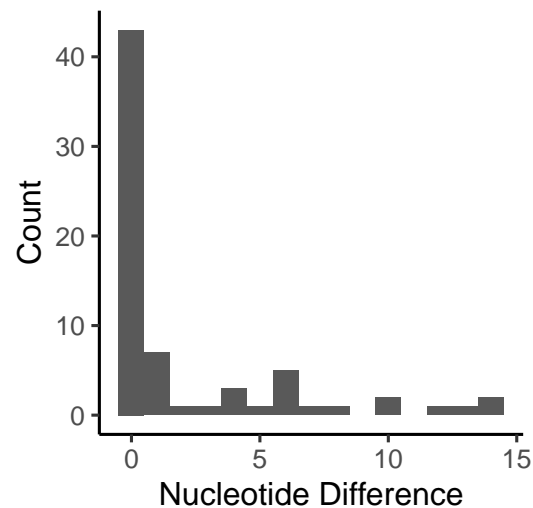
IGHV3-73*02

15 sequences assigned
10 (66.7%) exact matches, in which:
10 unique CDR3
3 unique J



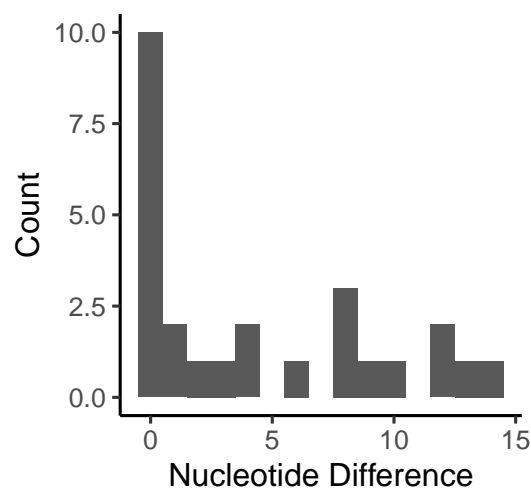
IGHV3-64D*06

69 sequences assigned
43 (62.3%) exact matches, in which:
43 unique CDR3
7 unique J



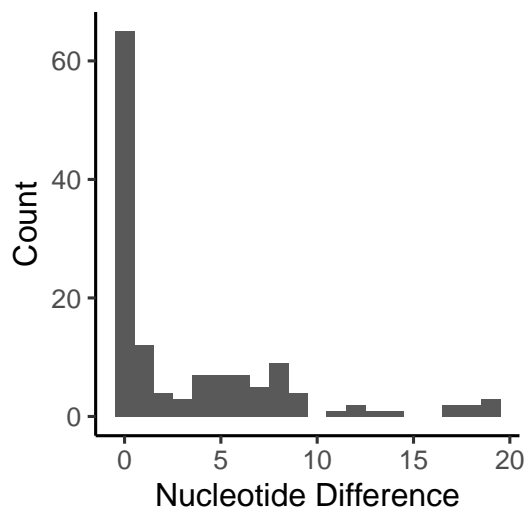
IGHV3-72*01

27 sequences assigned
10 (37%) exact matches, in which:
10 unique CDR3
3 unique J



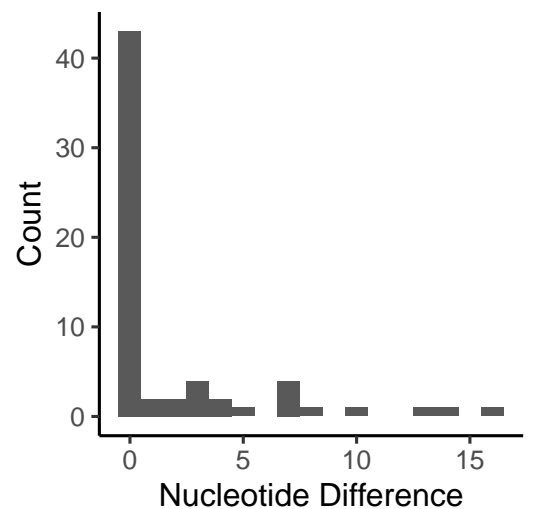
IGHV3-74*01

137 sequences assigned
65 (47.4%) exact matches, in which:
65 unique CDR3
6 unique J



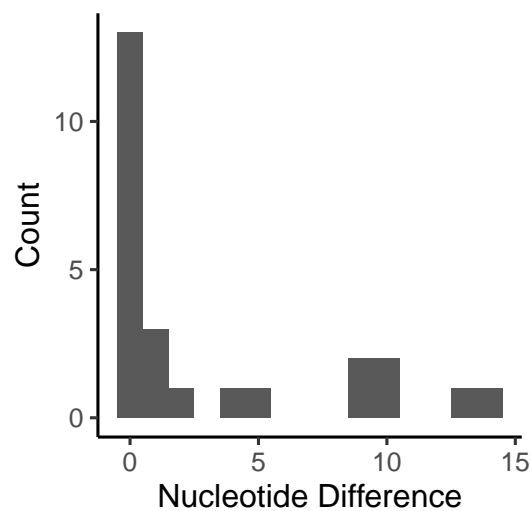
IGHV3-64D*09

66 sequences assigned
43 (65.2%) exact matches, in which:
43 unique CDR3
5 unique J



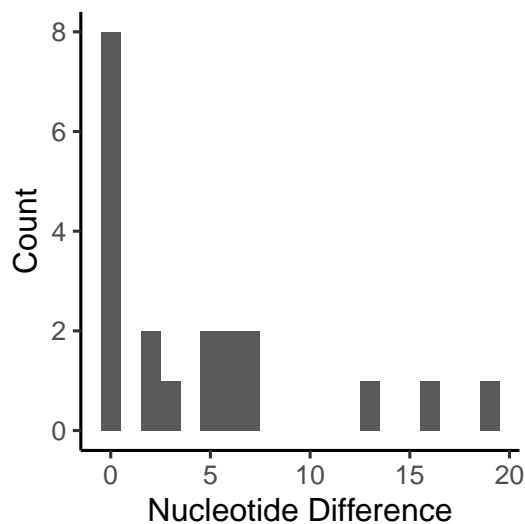
IGHV3-73*01

25 sequences assigned
13 (52%) exact matches, in which:
13 unique CDR3
3 unique J



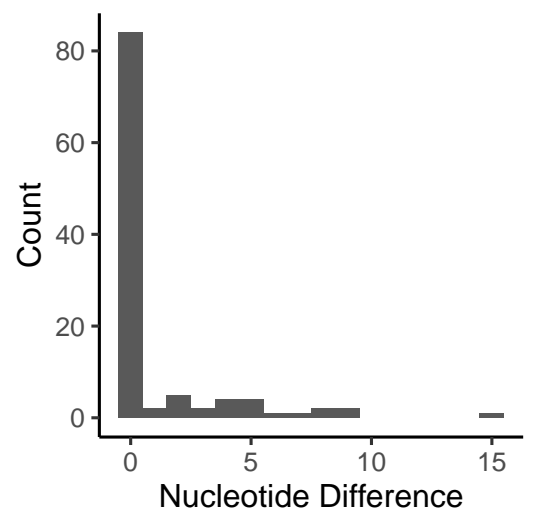
IGHV3-43D*03

21 sequences assigned
8 (38.1%) exact matches, in which:
8 unique CDR3
2 unique J



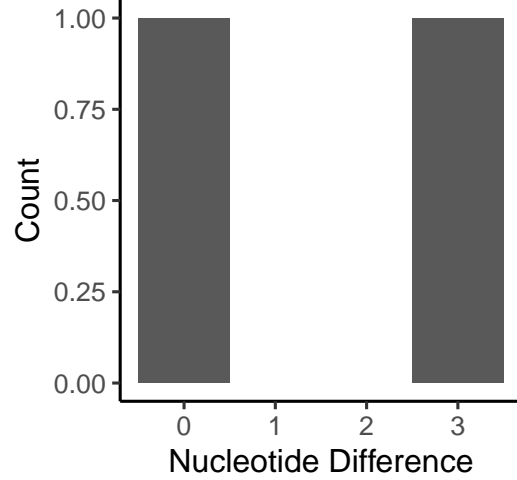
IGHV4-4*02

109 sequences assigned
84 (77.1%) exact matches, in which:
84 unique CDR3
6 unique J



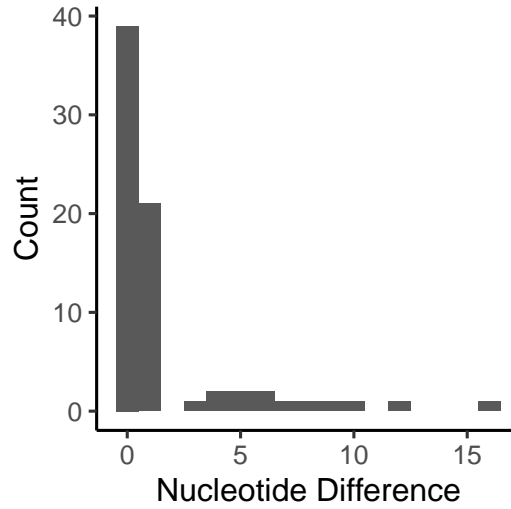
IGHV4-28*01

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



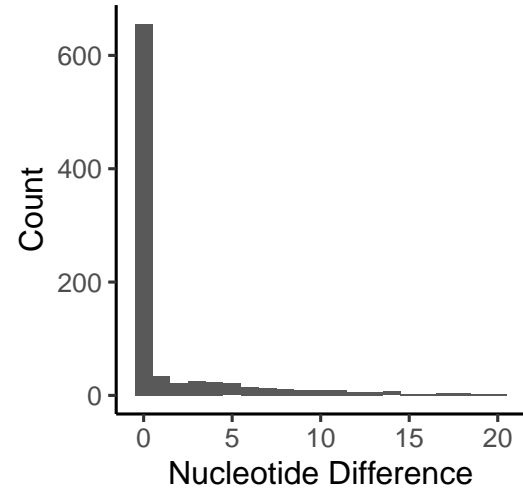
IGHV4-30-2*01

73 sequences assigned
39 (53.4%) exact matches, in which:
39 unique CDR3
6 unique J



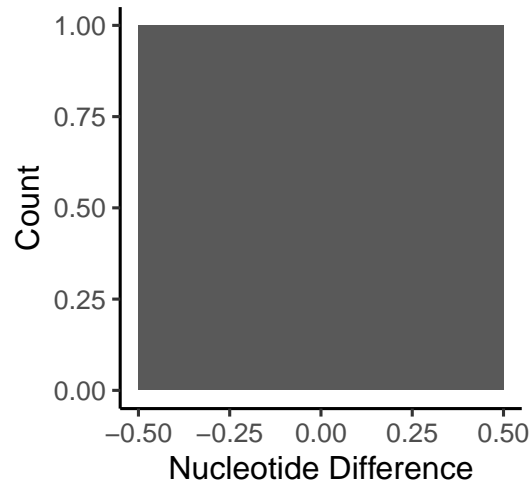
IGHV4-39*07

898 sequences assigned
656 (73.1%) exact matches, in which:
654 unique CDR3
7 unique J



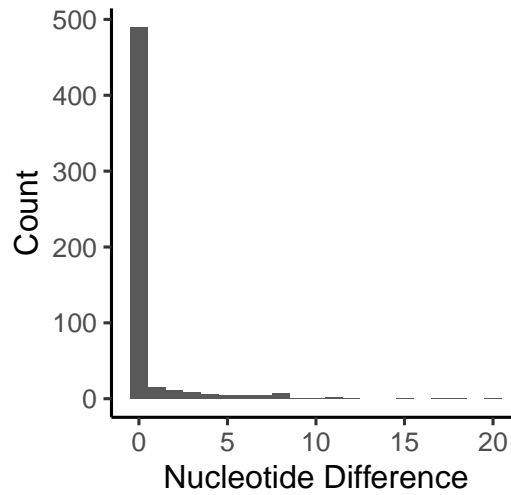
IGHV4-28*03

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



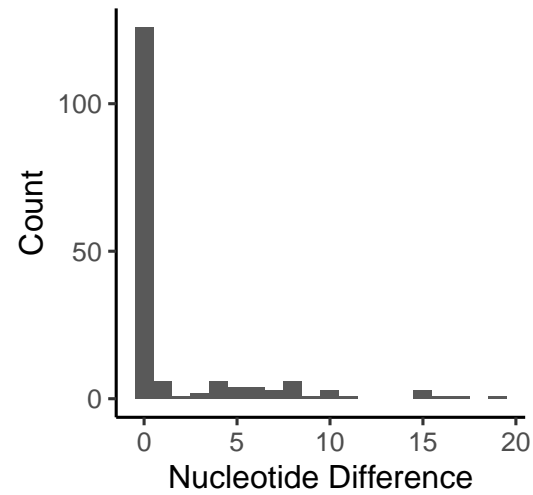
IGHV4-34*01

568 sequences assigned
490 (86.3%) exact matches, in which:
489 unique CDR3
7 unique J



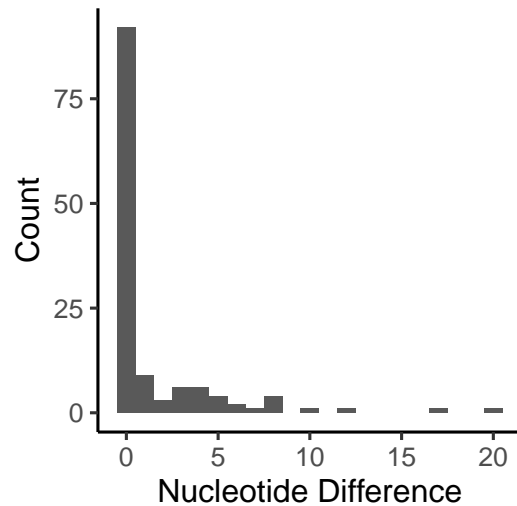
IGHV4-59*01

170 sequences assigned
126 (74.1%) exact matches, in which:
126 unique CDR3
6 unique J



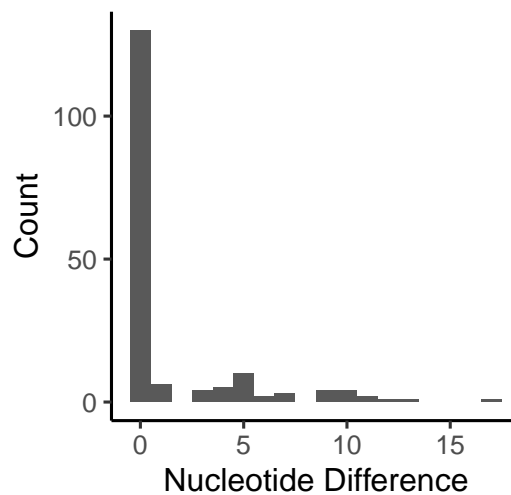
IGHV4-30-4*01

132 sequences assigned
92 (69.7%) exact matches, in which:
92 unique CDR3
7 unique J



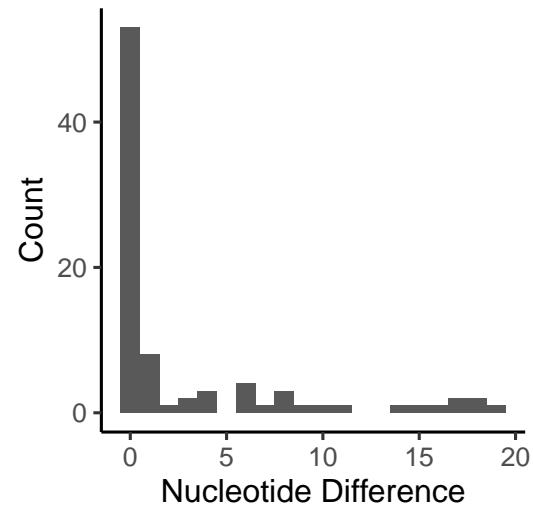
IGHV4-38-2*02

174 sequences assigned
130 (74.7%) exact matches, in which:
130 unique CDR3
6 unique J



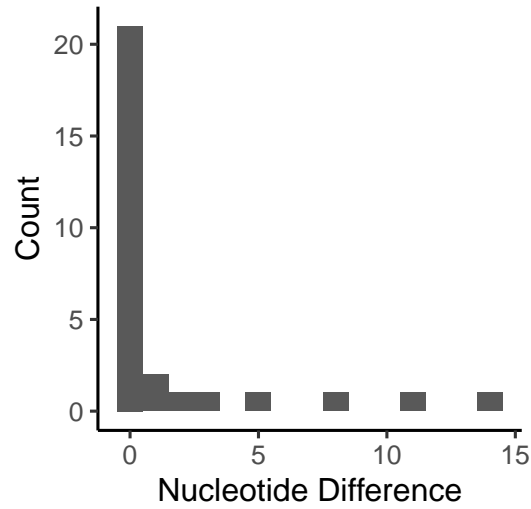
IGHV4-59*08

88 sequences assigned
53 (60.2%) exact matches, in which:
53 unique CDR3
5 unique J



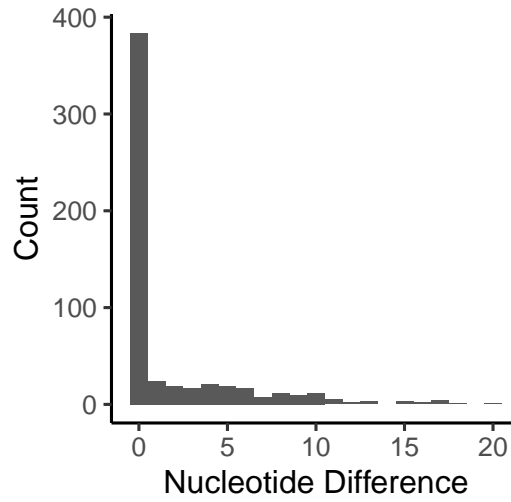
IGHV4-61*01

29 sequences assigned
21 (72.4%) exact matches, in which:
21 unique CDR3
5 unique J



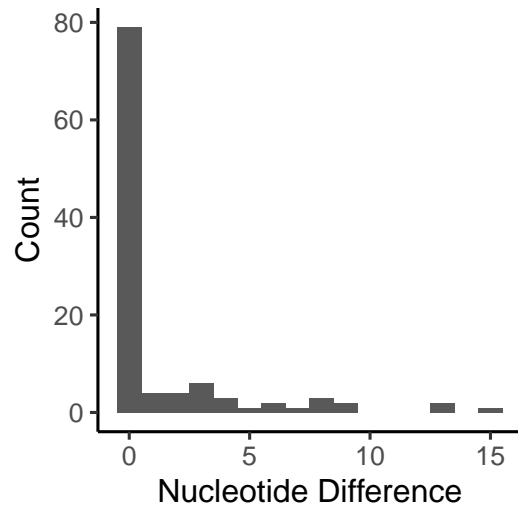
IGHV5-51*01

569 sequences assigned
384 (67.5%) exact matches, in which:
383 unique CDR3
7 unique J



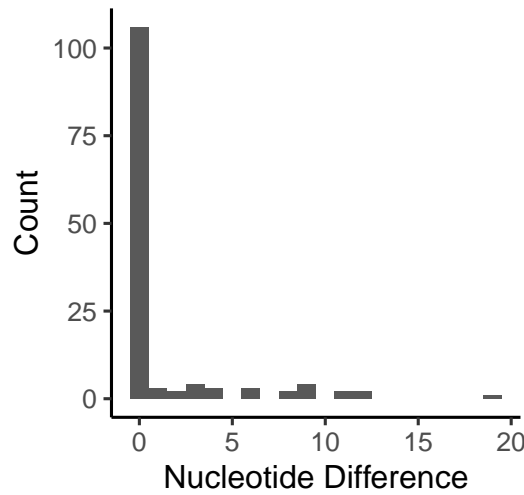
IGHV5-10-1*01

108 sequences assigned
79 (73.1%) exact matches, in which:
79 unique CDR3
7 unique J



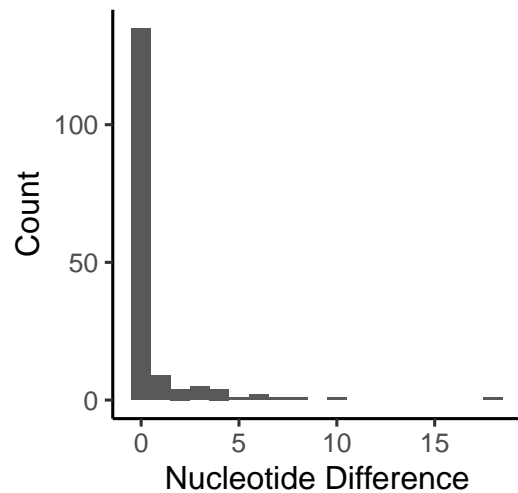
IGHV6-1*01

132 sequences assigned
106 (80.3%) exact matches, in which:
106 unique CDR3
6 unique J



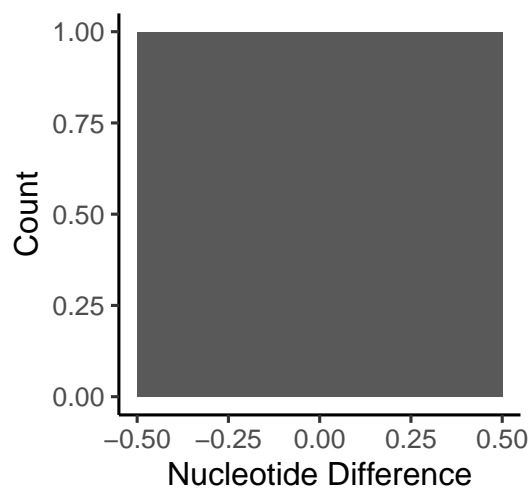
IGHV5-10-1*03

164 sequences assigned
135 (82.3%) exact matches, in which:
135 unique CDR3
5 unique J

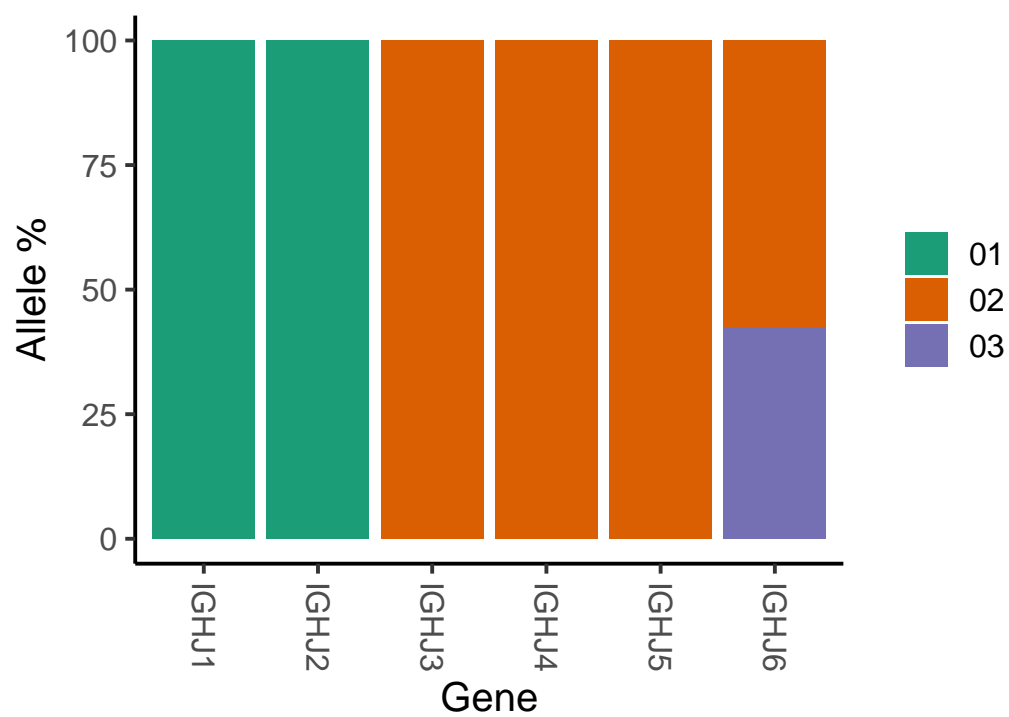


IGHV7-4-1*01

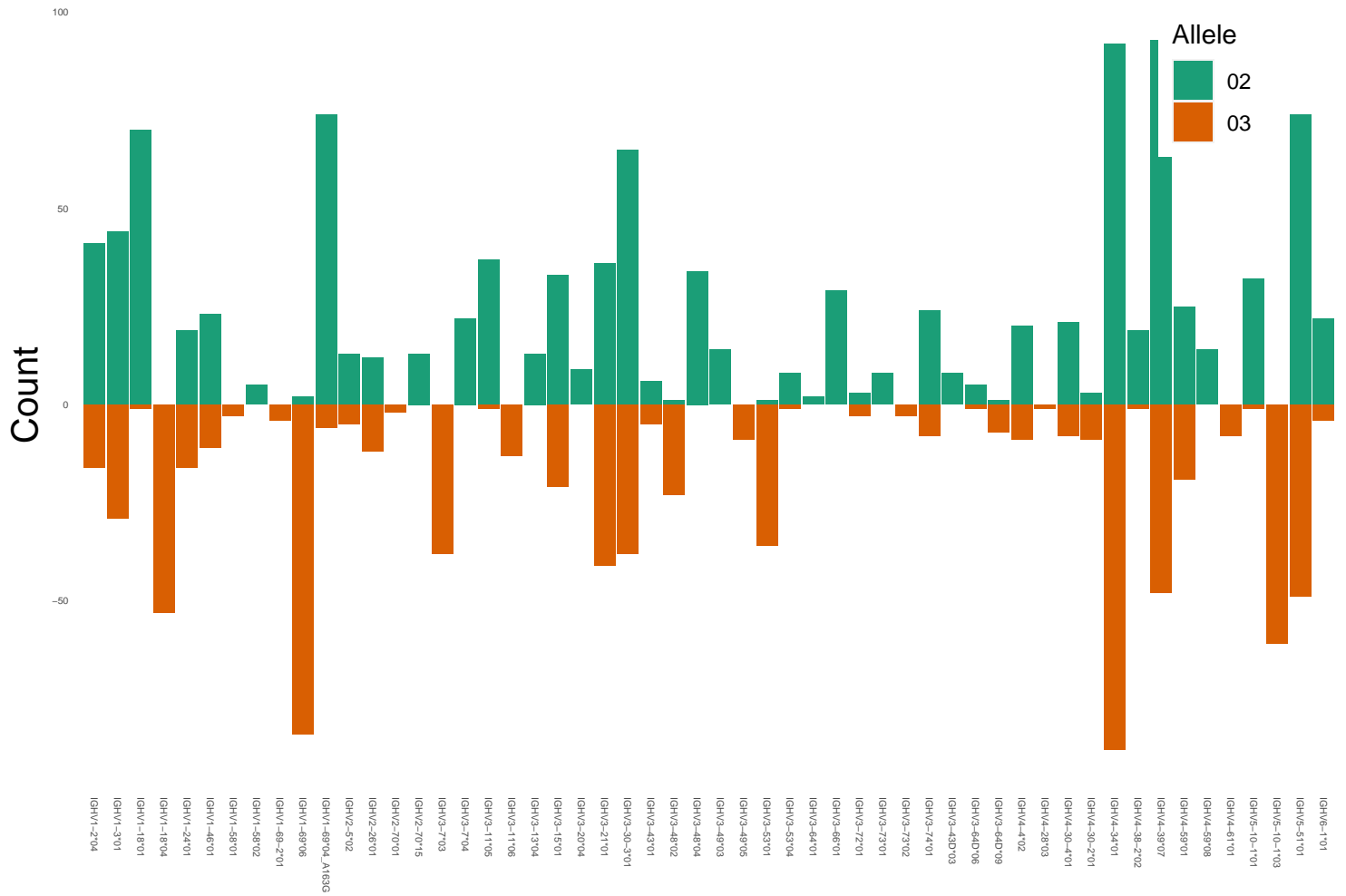
1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.