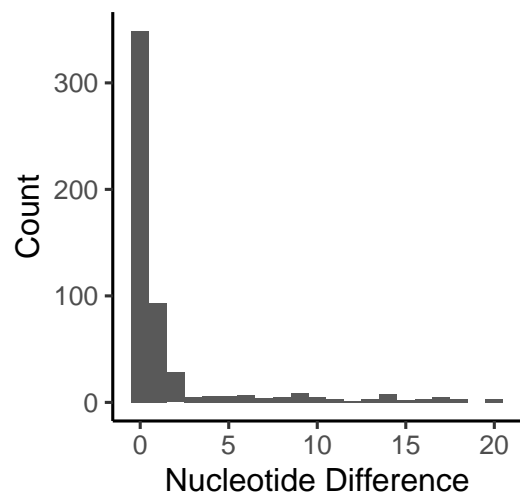


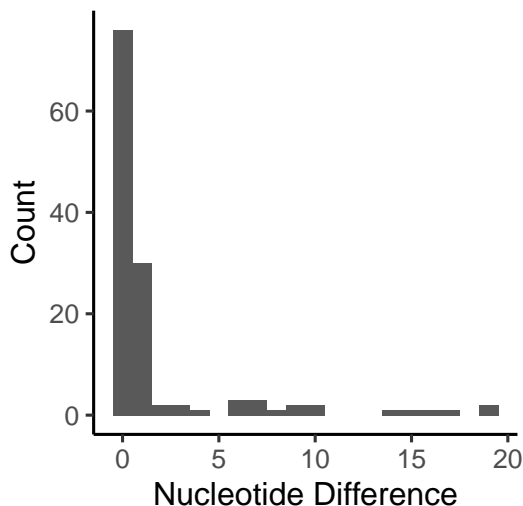
IGHV1-2*02

563 sequences assigned
349 (62%) exact matches, in which:
346 unique CDR3
6 unique J



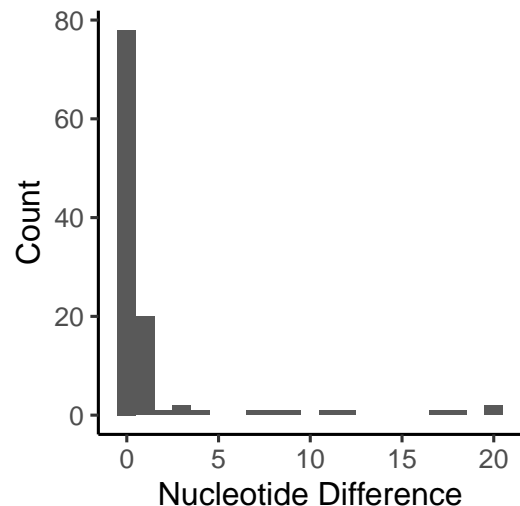
IGHV1-3*01

142 sequences assigned
76 (53.5%) exact matches, in which:
76 unique CDR3
5 unique J



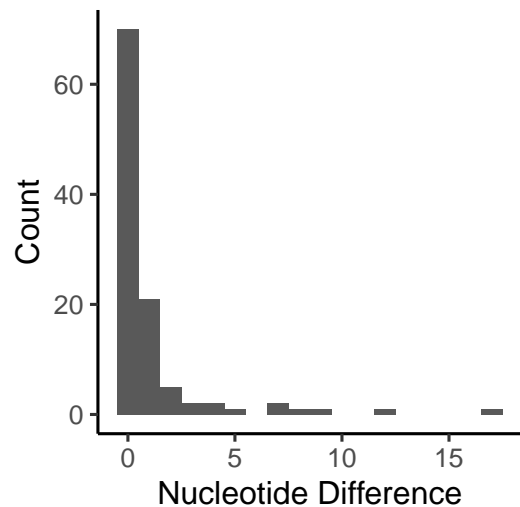
IGHV1-24*01

116 sequences assigned
78 (67.2%) exact matches, in which:
78 unique CDR3
5 unique J



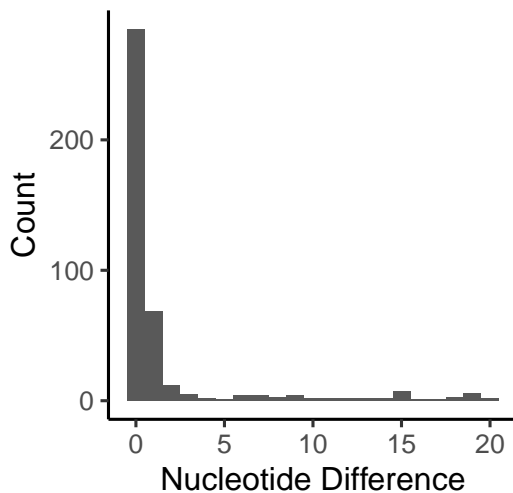
IGHV1-2*04

107 sequences assigned
70 (65.4%) exact matches, in which:
69 unique CDR3
5 unique J



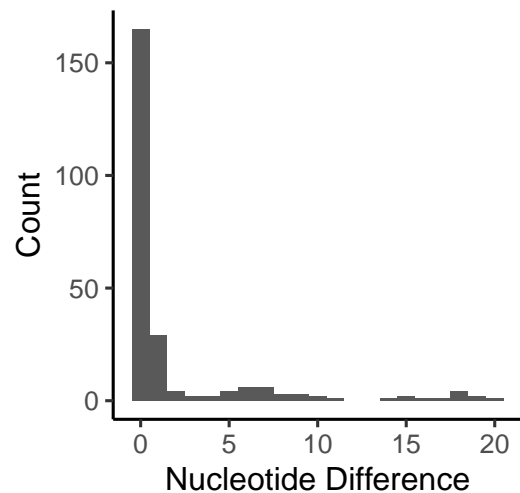
IGHV1-18*01

435 sequences assigned
285 (65.5%) exact matches, in which:
281 unique CDR3
6 unique J



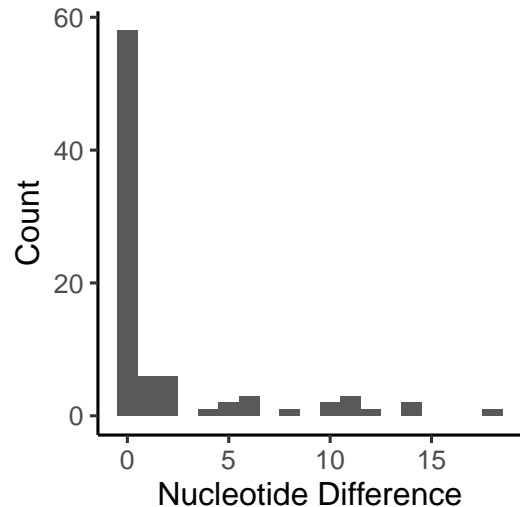
IGHV1-46*01

243 sequences assigned
165 (67.9%) exact matches, in which:
165 unique CDR3
6 unique J



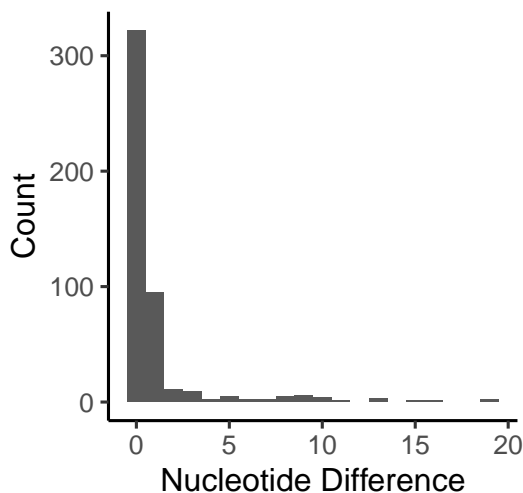
IGHV1-2*02_T174C

92 sequences assigned
58 (63%) exact matches, in which:
58 unique CDR3
6 unique J



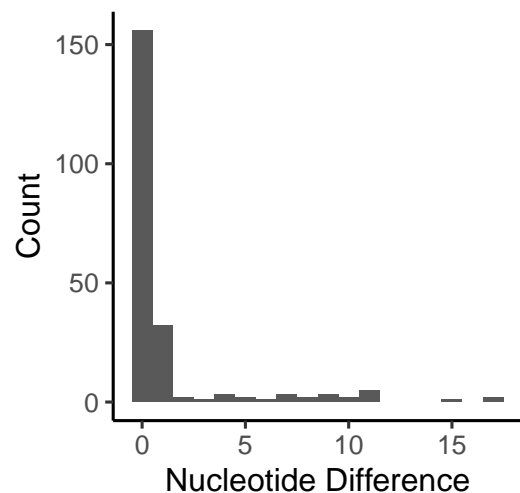
IGHV1-18*04

481 sequences assigned
322 (66.9%) exact matches, in which:
321 unique CDR3
6 unique J



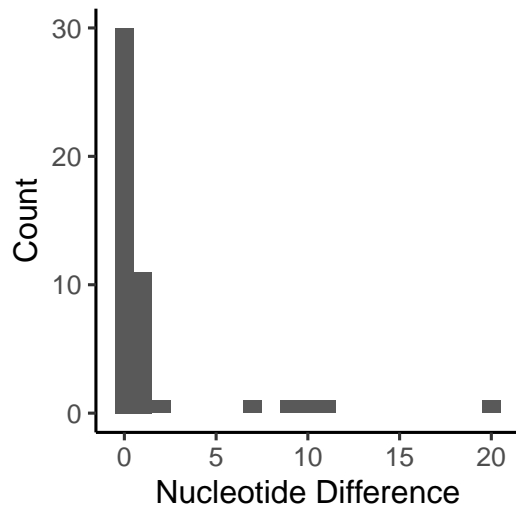
IGHV1-46*03

221 sequences assigned
156 (70.6%) exact matches, in which:
154 unique CDR3
6 unique J



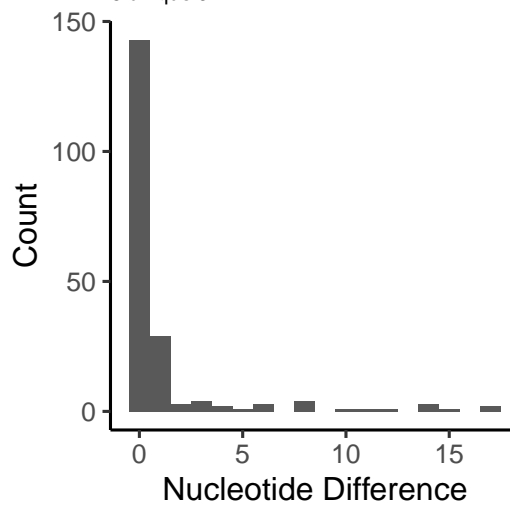
IGHV1–58*01

47 sequences assigned
30 (63.8%) exact matches, in which:
30 unique CDR3
4 unique J



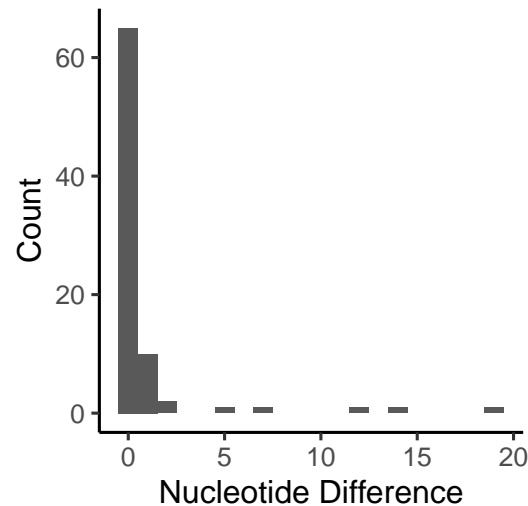
IGHV2–5*01

200 sequences assigned
143 (71.5%) exact matches, in which:
143 unique CDR3
6 unique J



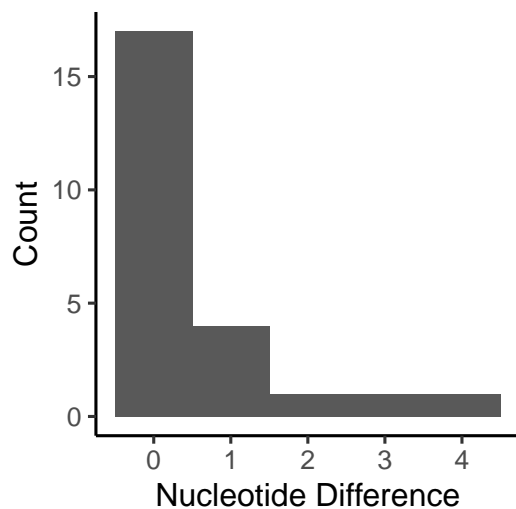
IGHV2–70*01

82 sequences assigned
65 (79.3%) exact matches, in which:
65 unique CDR3
5 unique J



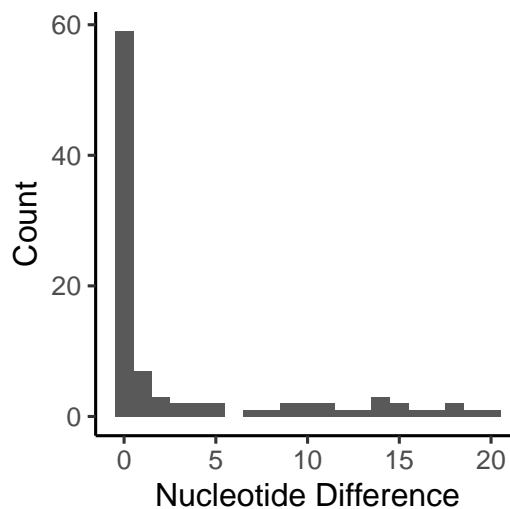
IGHV1–69–2*01

25 sequences assigned
17 (68%) exact matches, in which:
17 unique CDR3
4 unique J



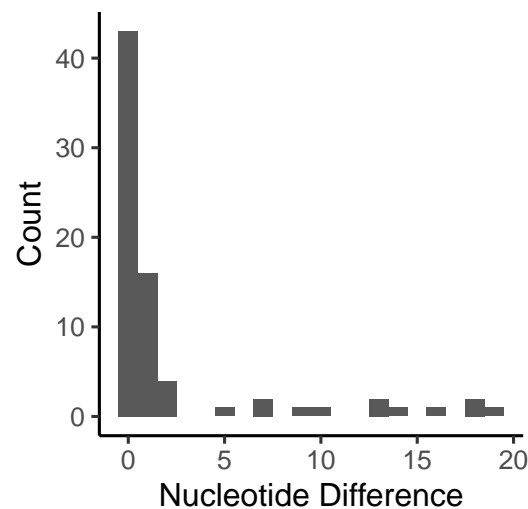
IGHV2–5*02

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



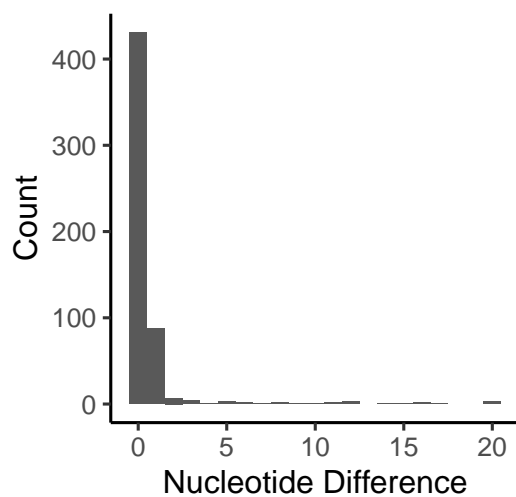
IGHV3–7*05

77 sequences assigned
43 (55.8%) exact matches, in which:
43 unique CDR3
5 unique J



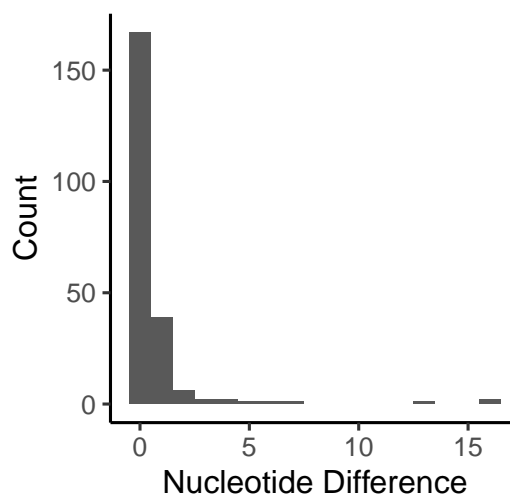
IGHV1–69*06

562 sequences assigned
431 (76.7%) exact matches, in which:
419 unique CDR3
6 unique J



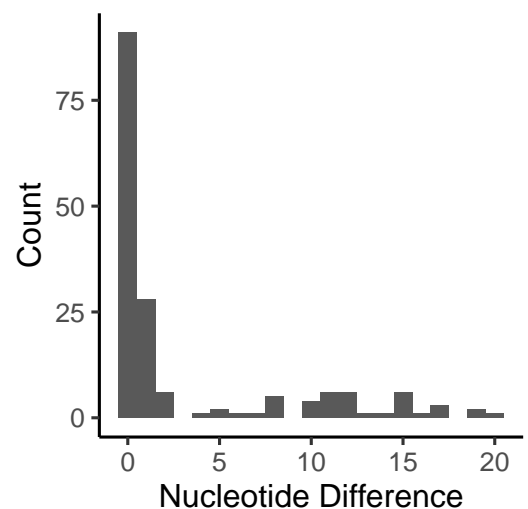
IGHV2–26*01

224 sequences assigned
167 (74.6%) exact matches, in which:
167 unique CDR3
6 unique J



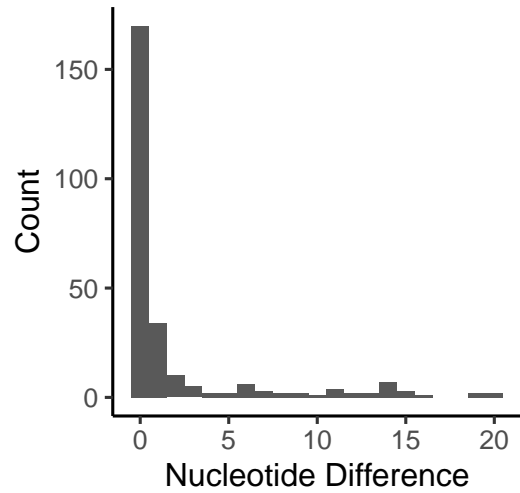
IGHV3–7*04_A144G

174 sequences assigned
91 (52.3%) exact matches, in which:
91 unique CDR3
5 unique J



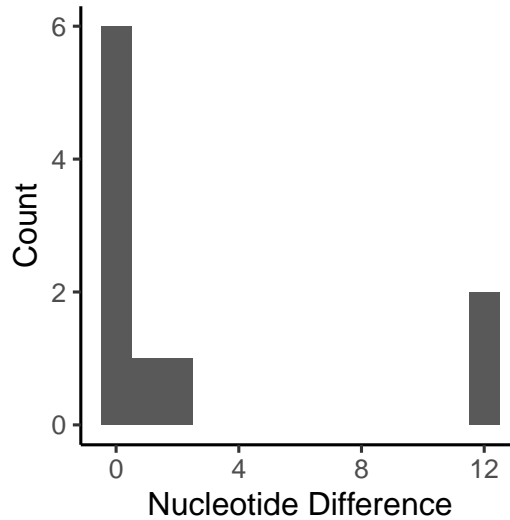
IGHV3-11*05

272 sequences assigned
170 (62.5%) exact matches, in which:
169 unique CDR3
6 unique J



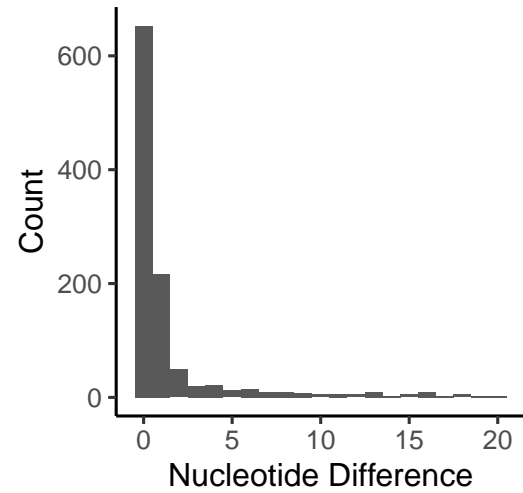
IGHV3-13*05

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



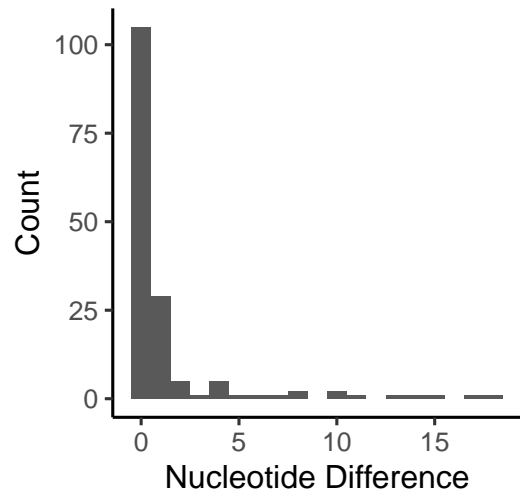
IGHV3-21*01

1090 sequences assigned
653 (59.9%) exact matches, in which:
649 unique CDR3
6 unique J



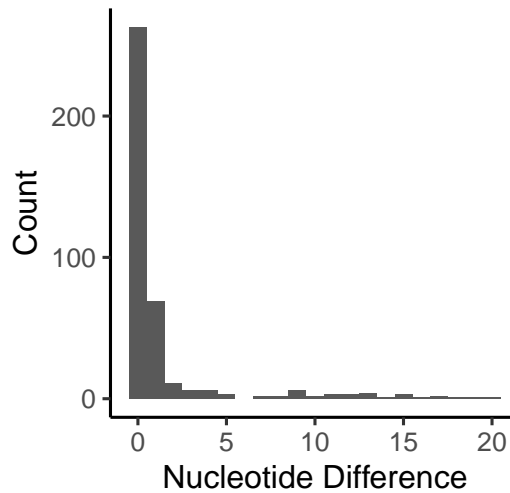
IGHV3-11*06

160 sequences assigned
105 (65.6%) exact matches, in which:
105 unique CDR3
5 unique J



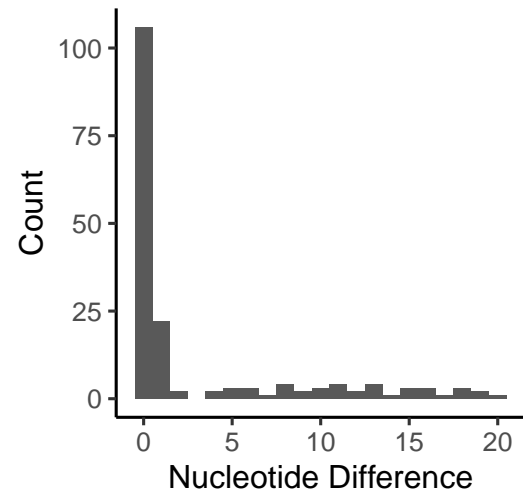
IGHV3-15*01

399 sequences assigned
263 (65.9%) exact matches, in which:
263 unique CDR3
6 unique J



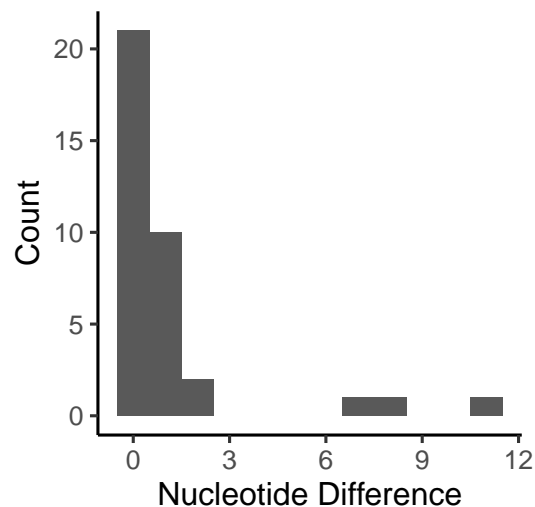
IGHV3-23*01_T158G

186 sequences assigned
106 (57%) exact matches, in which:
105 unique CDR3
6 unique J



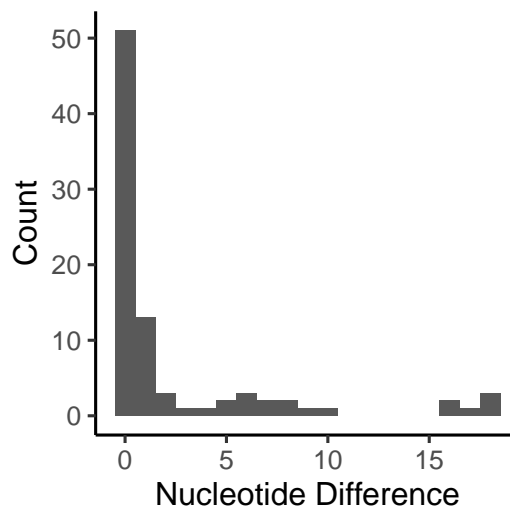
IGHV3-13*04

36 sequences assigned
21 (58.3%) exact matches, in which:
21 unique CDR3
4 unique J



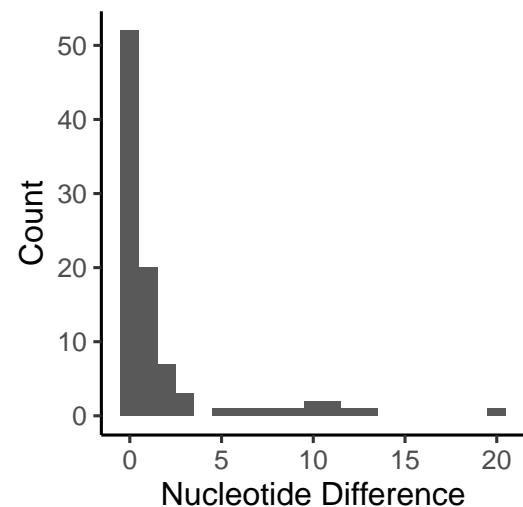
IGHV3-20*04

86 sequences assigned
51 (59.3%) exact matches, in which:
51 unique CDR3
4 unique J



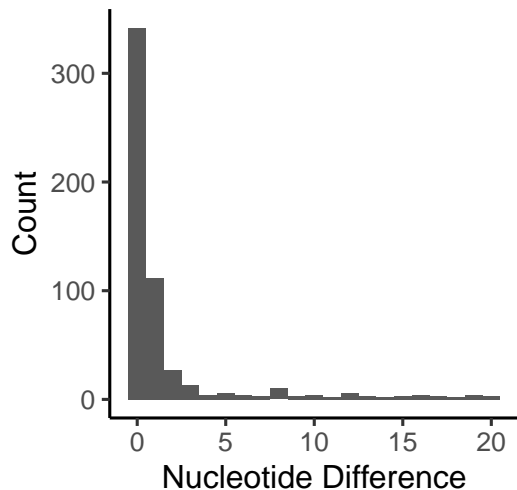
IGHV3-30*04_T158G

101 sequences assigned
52 (51.5%) exact matches, in which:
52 unique CDR3
6 unique J



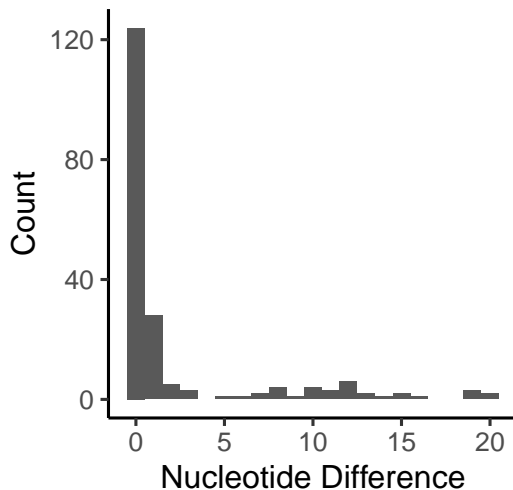
IGHV3–33*01

568 sequences assigned
342 (60.2%) exact matches, in which:
338 unique CDR3
6 unique J



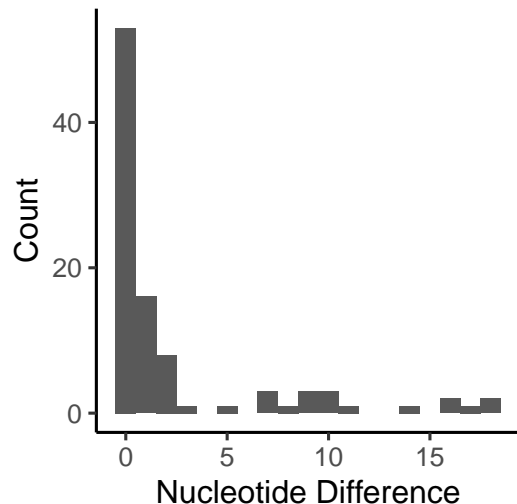
IGHV3–48*01

200 sequences assigned
124 (62%) exact matches, in which:
123 unique CDR3
6 unique J



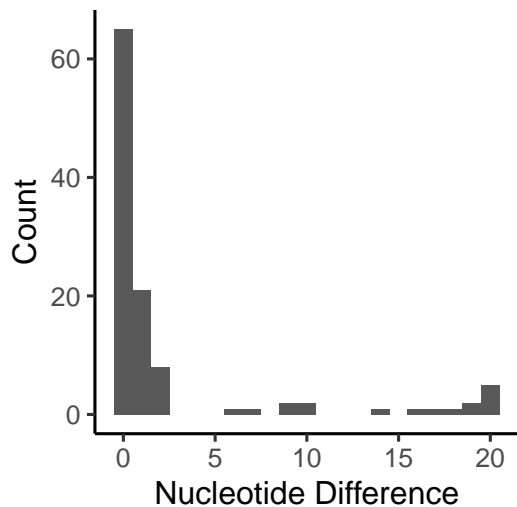
IGHV3–49*04

103 sequences assigned
53 (51.5%) exact matches, in which:
53 unique CDR3
4 unique J



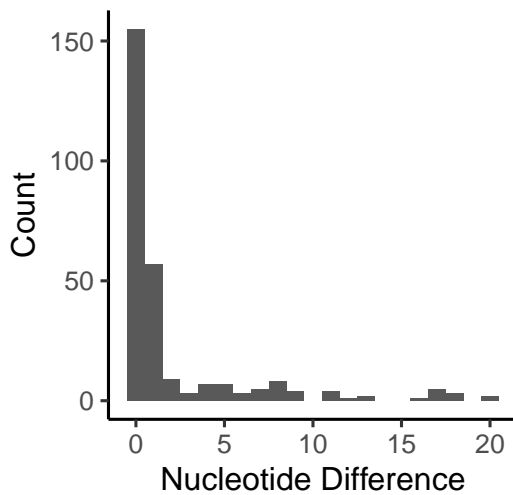
IGHV3–33*01_T158G

114 sequences assigned
65 (57%) exact matches, in which:
65 unique CDR3
5 unique J



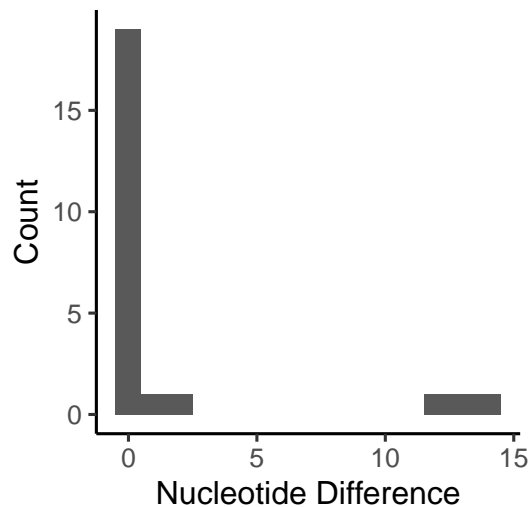
IGHV3–48*03

289 sequences assigned
155 (53.6%) exact matches, in which:
154 unique CDR3
6 unique J



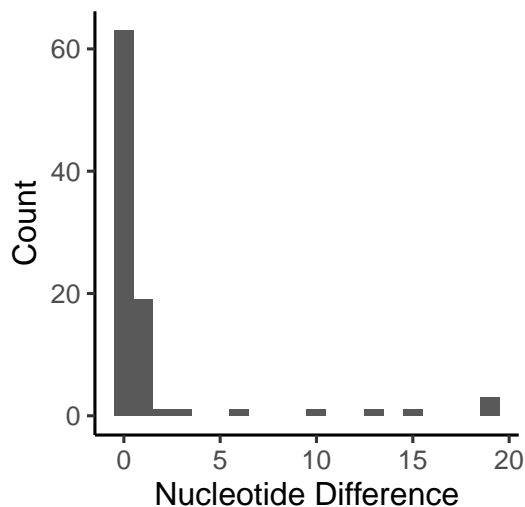
IGHV3–53*04

25 sequences assigned
19 (76%) exact matches, in which:
19 unique CDR3
5 unique J



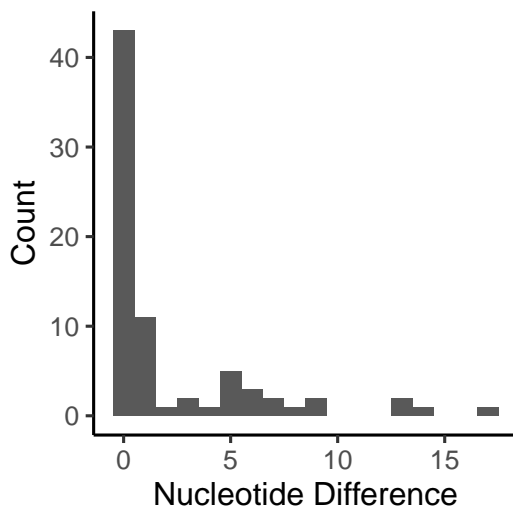
IGHV3–43*02

94 sequences assigned
63 (67%) exact matches, in which:
63 unique CDR3
6 unique J



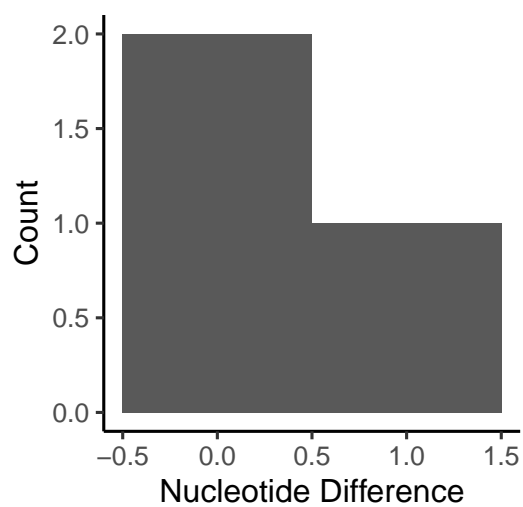
IGHV3–49*03

76 sequences assigned
43 (56.6%) exact matches, in which:
43 unique CDR3
4 unique J



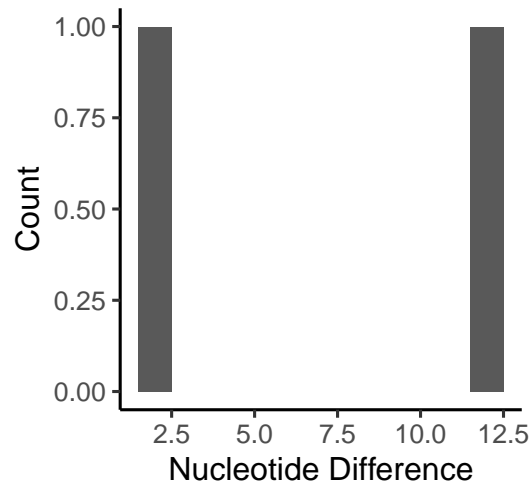
IGHV3–64*02

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



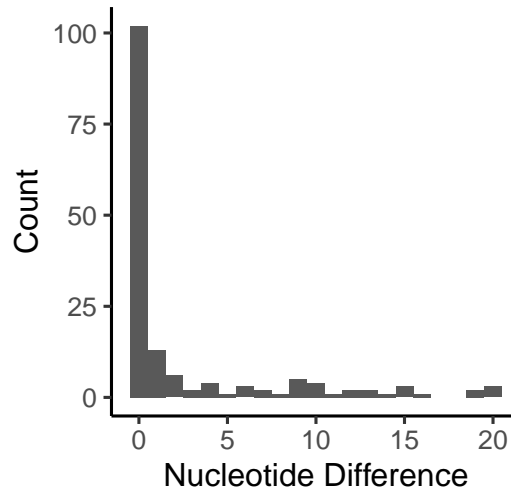
IGHV3-66*03

2 sequences assigned
No exact matches.



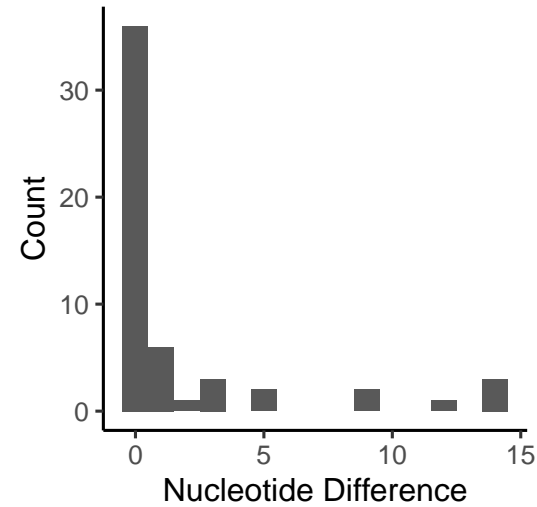
IGHV3-74*01

164 sequences assigned
102 (62.2%) exact matches, in which:
102 unique CDR3
6 unique J



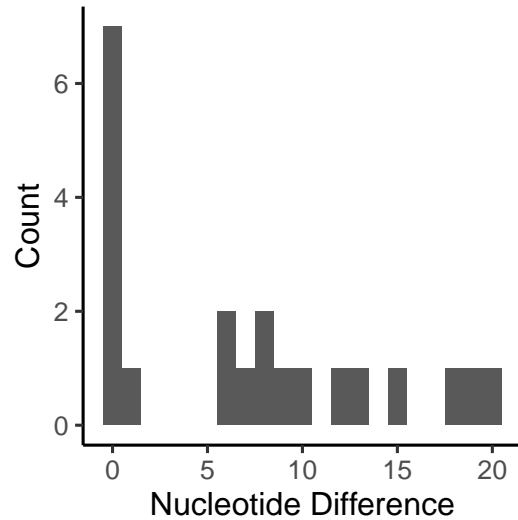
IGHV3-64D*08

56 sequences assigned
36 (64.3%) exact matches, in which:
36 unique CDR3
5 unique J



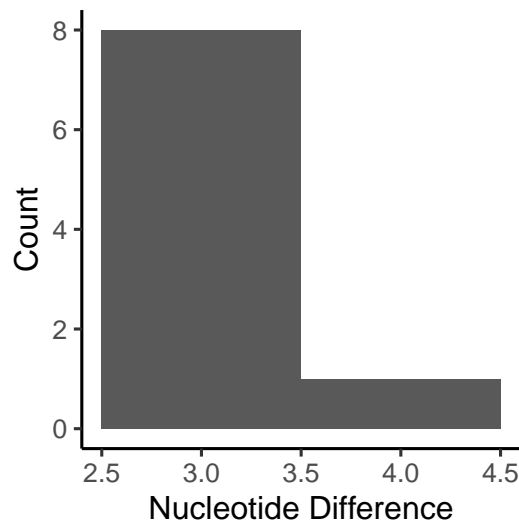
IGHV3-72*01

23 sequences assigned
7 (30.4%) exact matches, in which:
7 unique CDR3
3 unique J



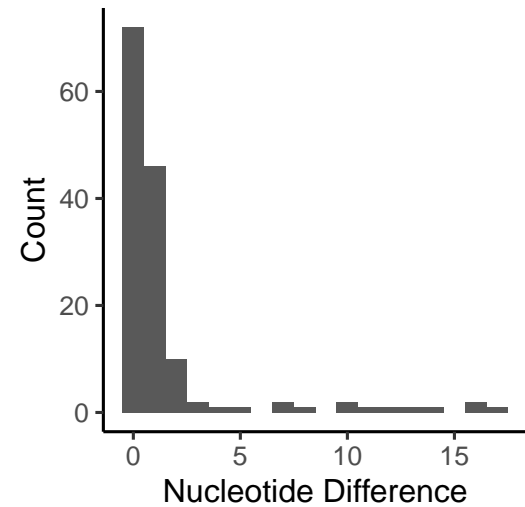
IGHV3-43D*04

9 sequences assigned
No exact matches.



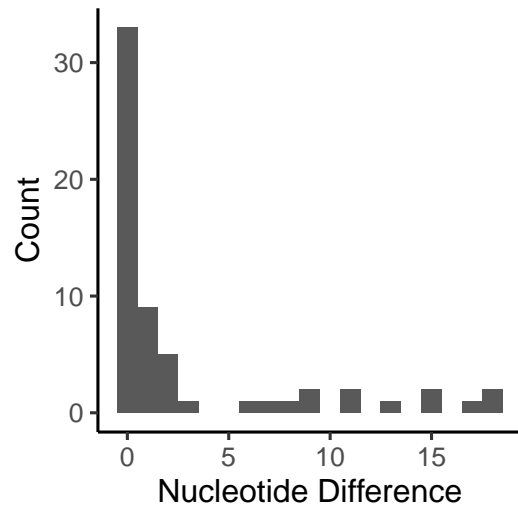
IGHV4-4*02

152 sequences assigned
72 (47.4%) exact matches, in which:
72 unique CDR3
5 unique J



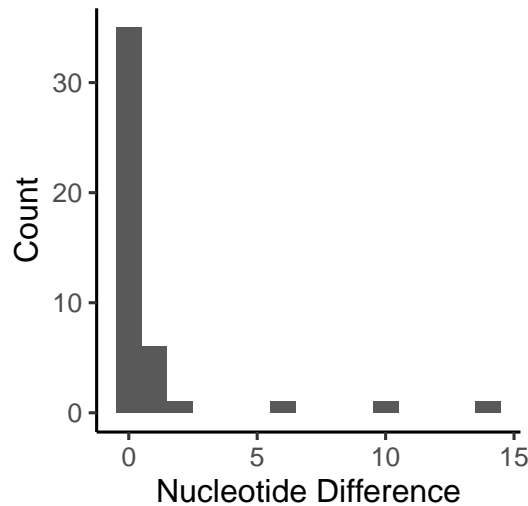
IGHV3-73*02

63 sequences assigned
33 (52.4%) exact matches, in which:
33 unique CDR3
4 unique J



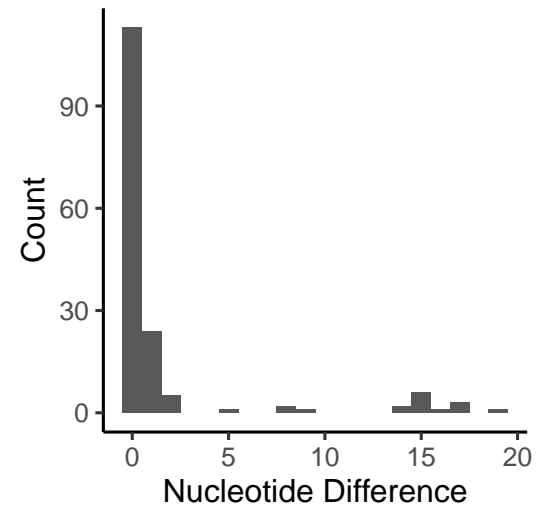
IGHV3-64D*06

49 sequences assigned
35 (71.4%) exact matches, in which:
35 unique CDR3
5 unique J



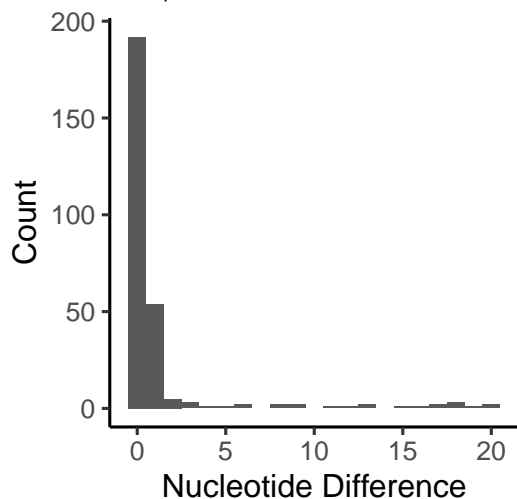
IGHV4-4*07

163 sequences assigned
113 (69.3%) exact matches, in which:
113 unique CDR3
5 unique J



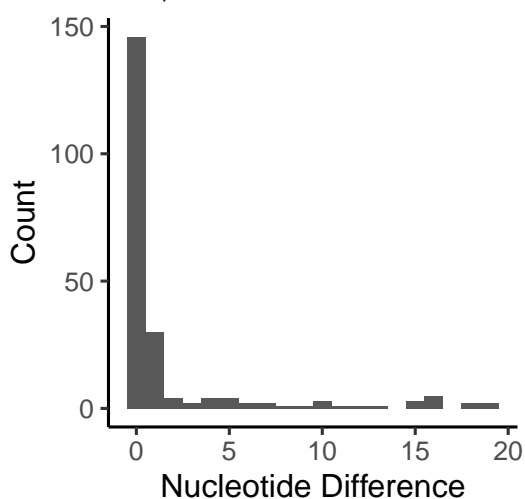
IGHV4–31*03

283 sequences assigned
192 (67.8%) exact matches, in which:
192 unique CDR3
6 unique J



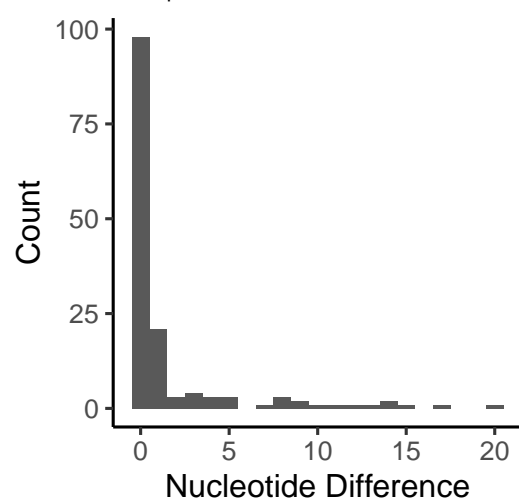
IGHV4–59*01

225 sequences assigned
146 (64.9%) exact matches, in which:
146 unique CDR3
5 unique J



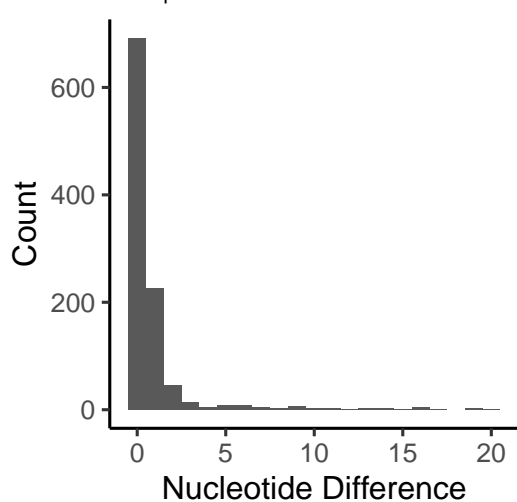
IGHV5–10–1*01

160 sequences assigned
98 (61.2%) exact matches, in which:
98 unique CDR3
6 unique J



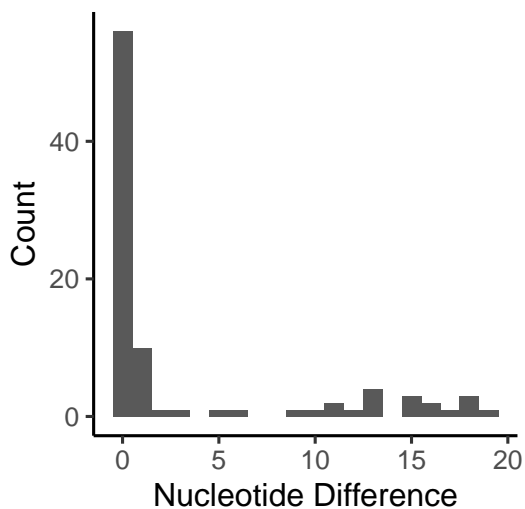
IGHV4–34*01

1056 sequences assigned
692 (65.5%) exact matches, in which:
686 unique CDR3
6 unique J



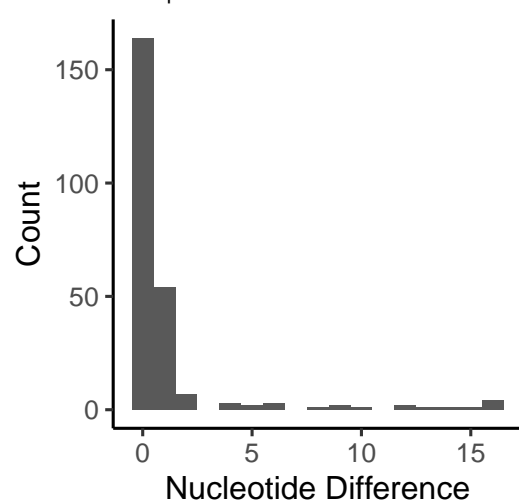
IGHV4–61*01

92 sequences assigned
56 (60.9%) exact matches, in which:
56 unique CDR3
5 unique J



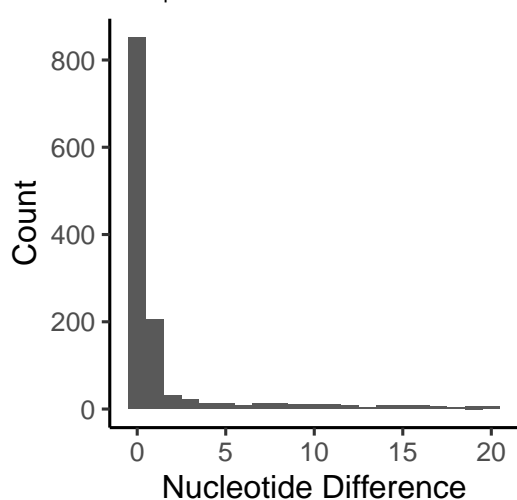
IGHV5–10–1*03

256 sequences assigned
164 (64.1%) exact matches, in which:
164 unique CDR3
6 unique J



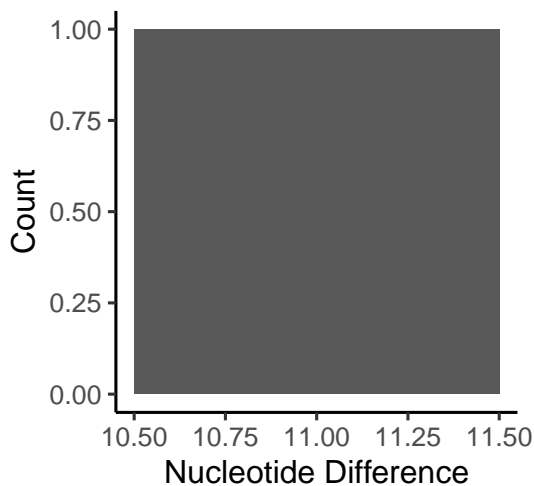
IGHV4–39*01

1290 sequences assigned
852 (66%) exact matches, in which:
845 unique CDR3
6 unique J



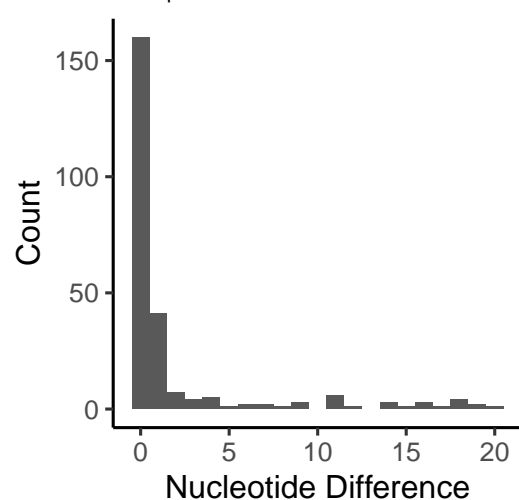
IGHV1/OR15–1*04

1 sequences assigned
No exact matches.



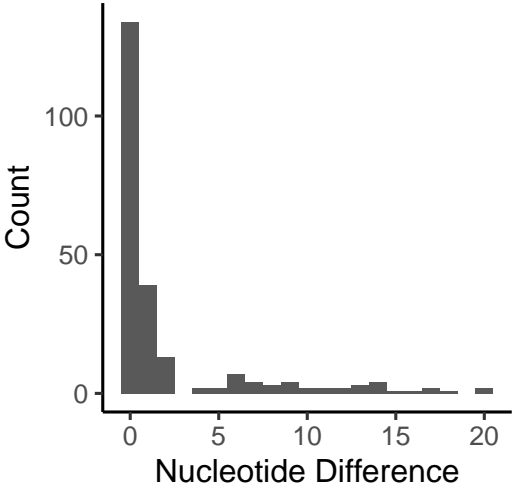
IGHV5–51*01

253 sequences assigned
160 (63.2%) exact matches, in which:
160 unique CDR3
6 unique J



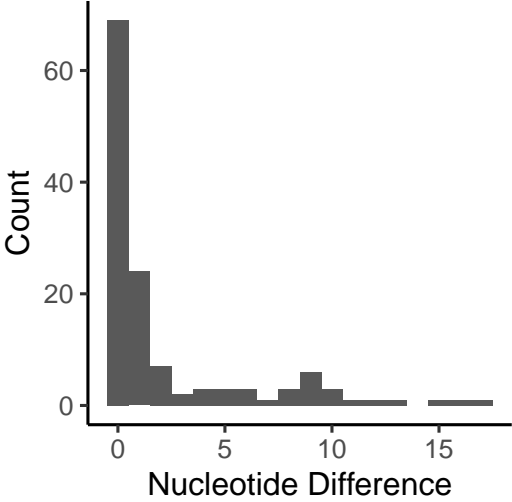
IGHV5–51*01_C45G

234 sequences assigned
134 (57.3%) exact matches, in which:
134 unique CDR3
6 unique J



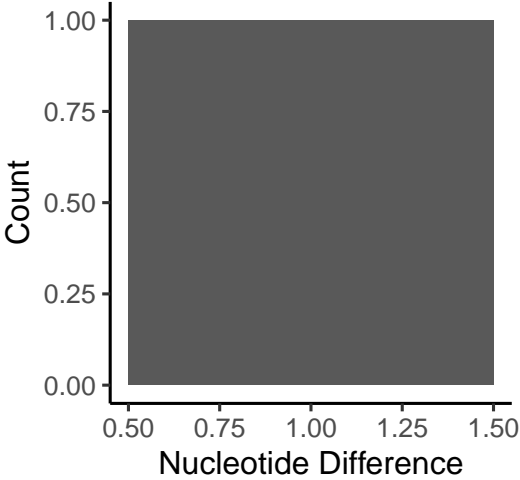
IGHV6–1*01

138 sequences assigned
69 (50%) exact matches, in which:
69 unique CDR3
4 unique J



IGHV7–4–1*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.