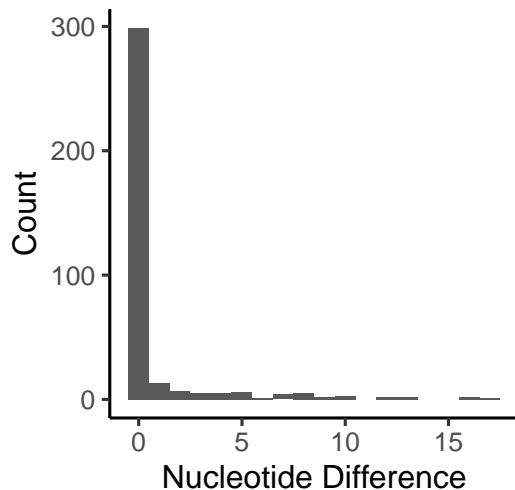


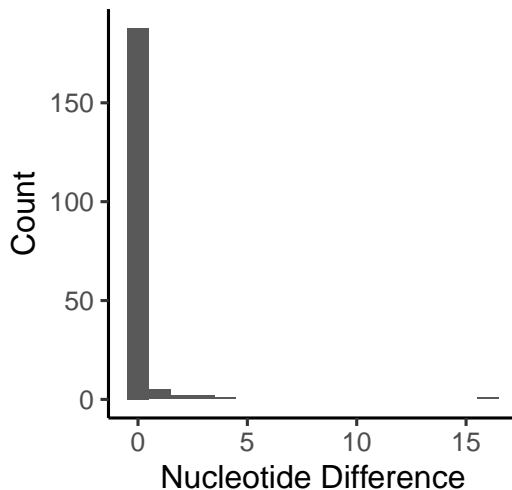
IGHV1-2*02

360 sequences assigned
299 (83.1%) exact matches, in which:
299 unique CDR3
6 unique J



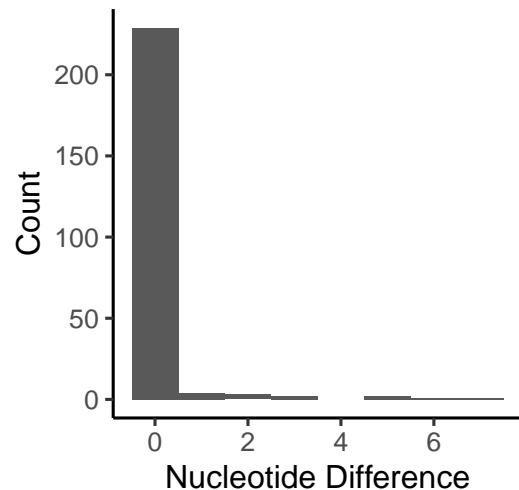
IGHV1-8*01

199 sequences assigned
188 (94.5%) exact matches, in which:
187 unique CDR3
6 unique J



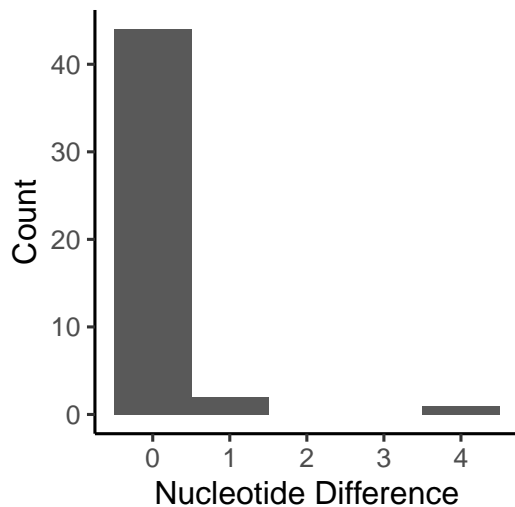
IGHV1-24*01

242 sequences assigned
229 (94.6%) exact matches, in which:
229 unique CDR3
6 unique J



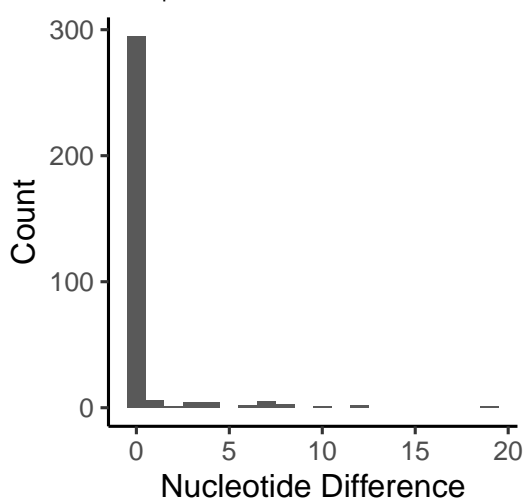
IGHV1-2*04

49 sequences assigned
44 (89.8%) exact matches, in which:
44 unique CDR3
4 unique J



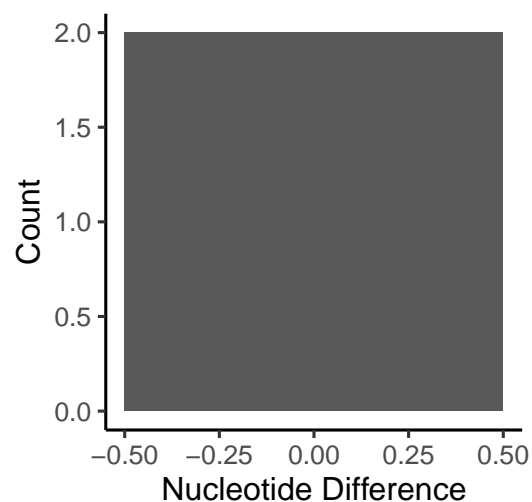
IGHV1-18*01

324 sequences assigned
295 (91%) exact matches, in which:
295 unique CDR3
6 unique J



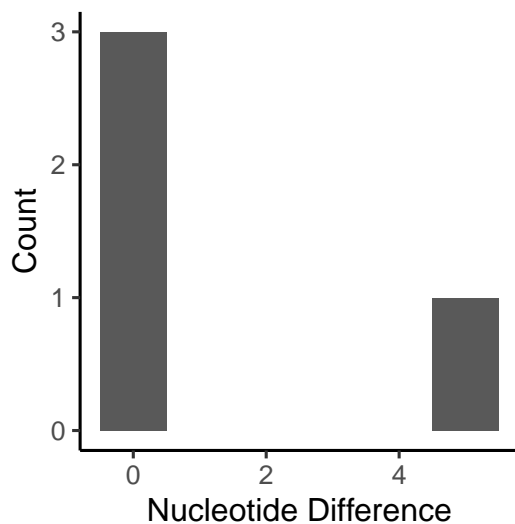
IGHV1-45*02

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



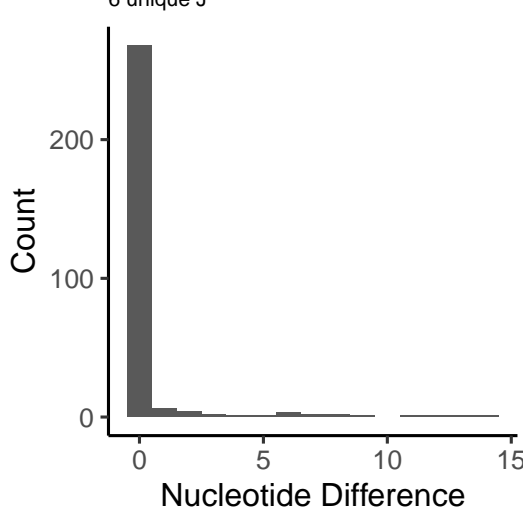
IGHV1-3*02

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



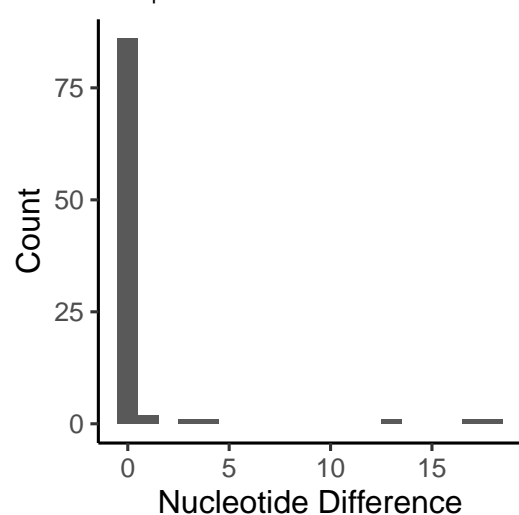
IGHV1-18*04

294 sequences assigned
268 (91.2%) exact matches, in which:
267 unique CDR3
6 unique J



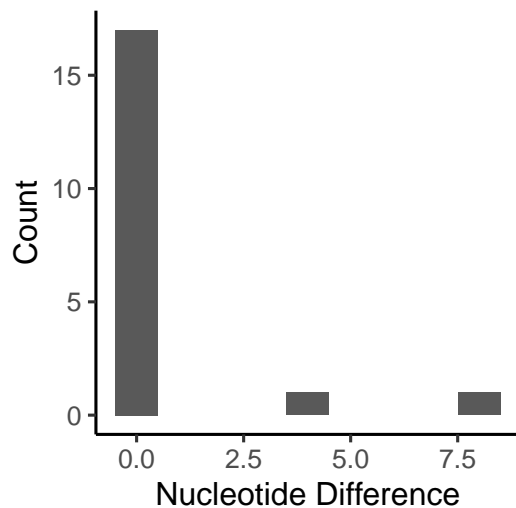
IGHV1-46*01

94 sequences assigned
86 (91.5%) exact matches, in which:
86 unique CDR3
5 unique J



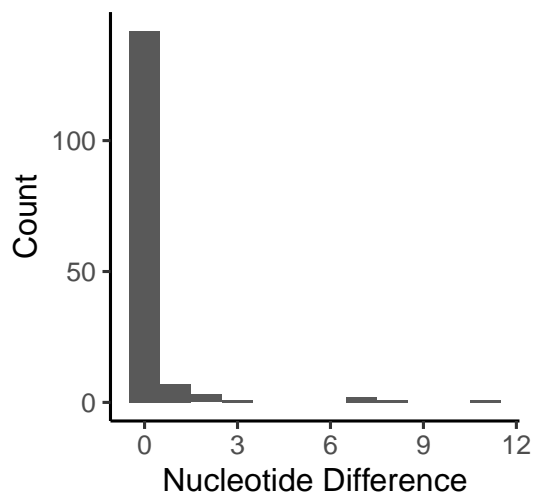
IGHV1-58*01

19 sequences assigned
17 (89.5%) exact matches, in which:
17 unique CDR3
4 unique J



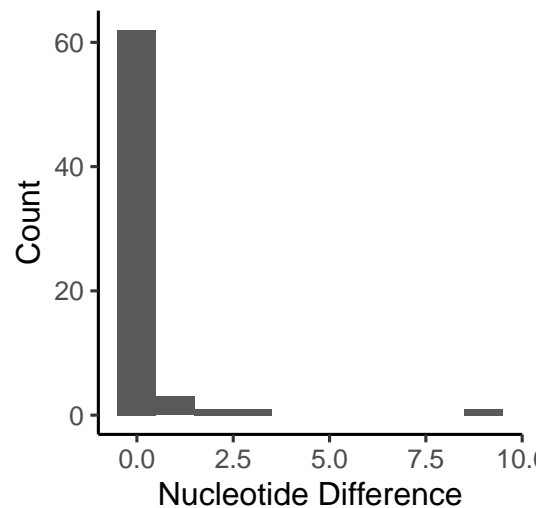
IGHV1-69*01_C26T

157 sequences assigned
142 (90.4%) exact matches, in which:
142 unique CDR3
6 unique J



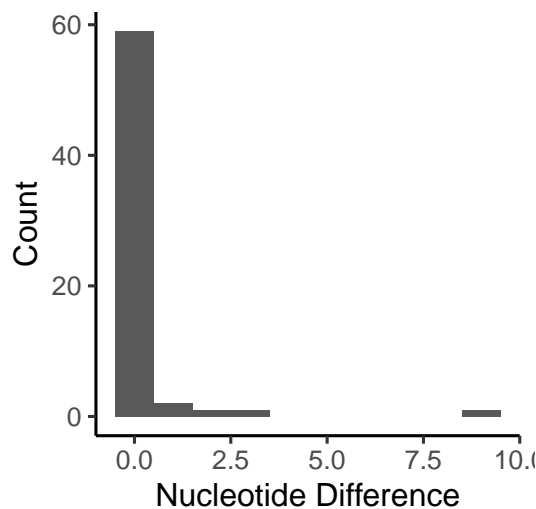
IGHV2-26*01

68 sequences assigned
62 (91.2%) exact matches, in which:
62 unique CDR3
5 unique J



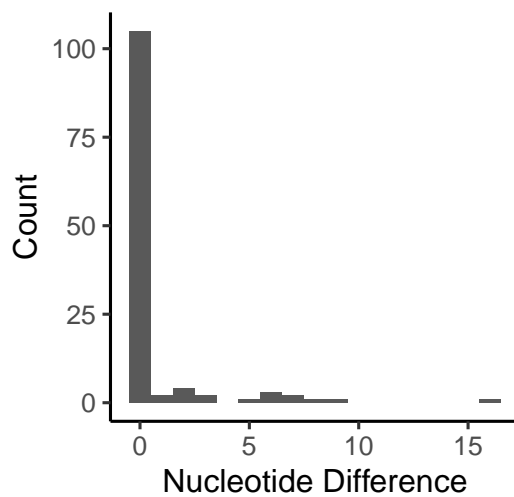
IGHV1-69-2*01

64 sequences assigned
59 (92.2%) exact matches, in which:
59 unique CDR3
4 unique J



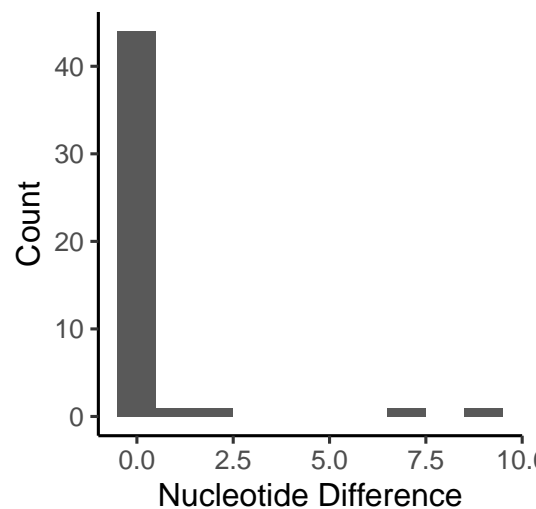
IGHV2-5*01

122 sequences assigned
105 (86.1%) exact matches, in which:
105 unique CDR3
6 unique J



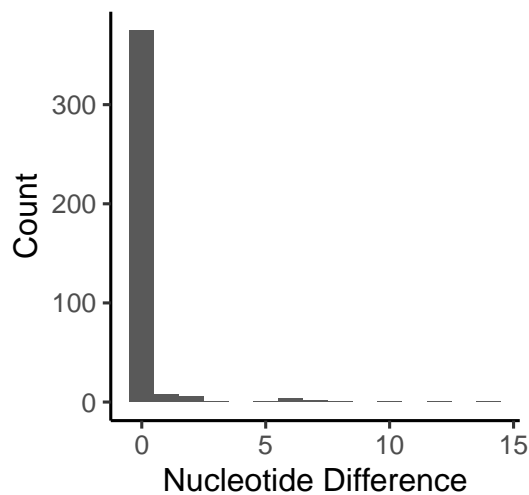
IGHV2-70*01

48 sequences assigned
44 (91.7%) exact matches, in which:
44 unique CDR3
6 unique J



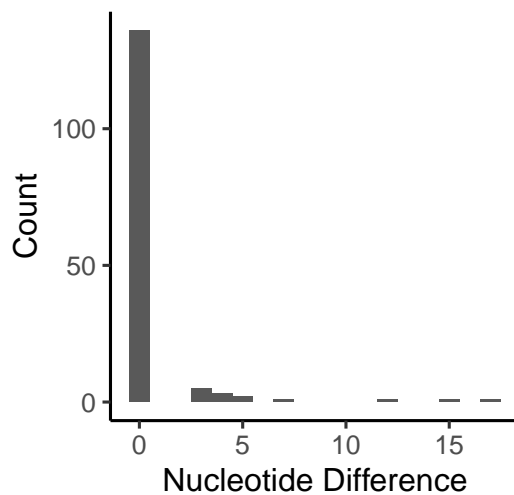
IGHV1-69*06

401 sequences assigned
375 (93.5%) exact matches, in which:
375 unique CDR3
6 unique J



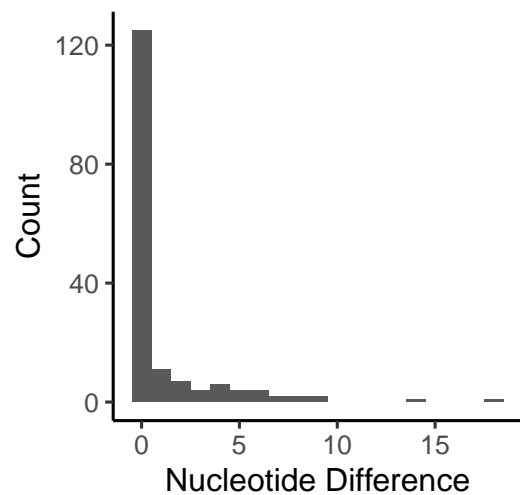
IGHV2-5*02

151 sequences assigned
136 (90.1%) exact matches, in which:
136 unique CDR3
6 unique J



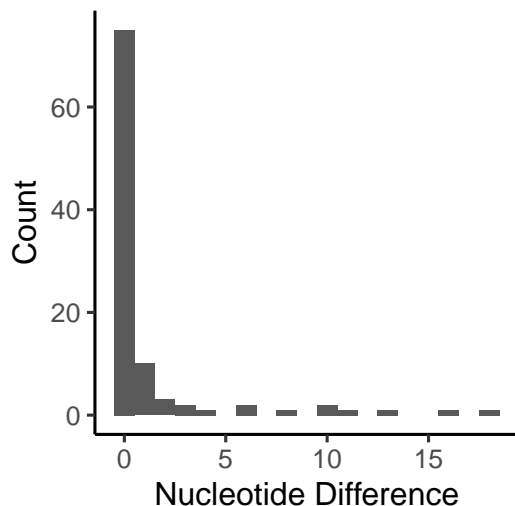
IGHV3-7*01

170 sequences assigned
125 (73.5%) exact matches, in which:
125 unique CDR3
5 unique J



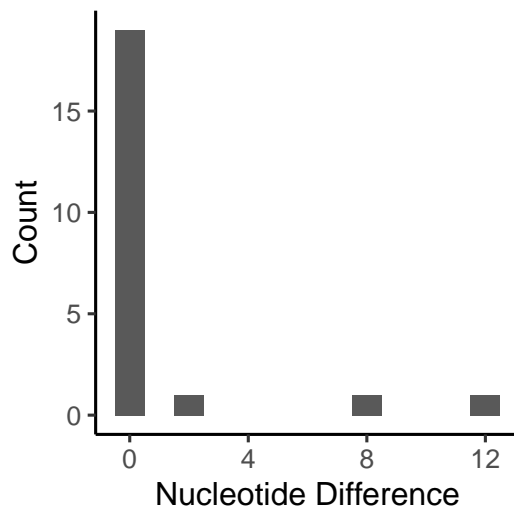
IGHV3-7*04

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



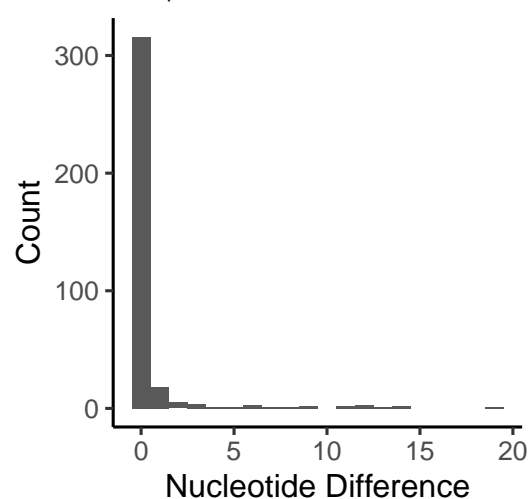
IGHV3-13*01

22 sequences assigned
19 (86.4%) exact matches, in which:
19 unique CDR3
4 unique J



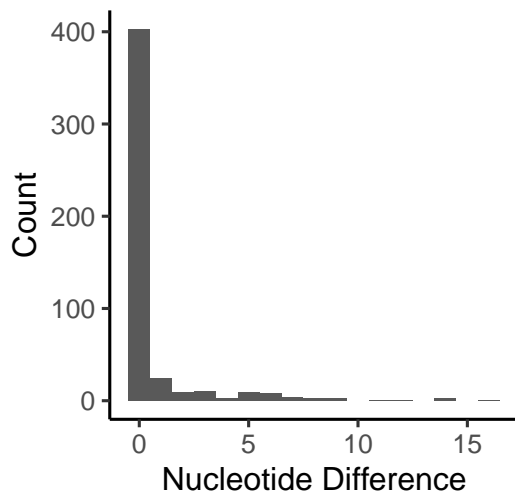
IGHV3-21*01

362 sequences assigned
316 (87.3%) exact matches, in which:
316 unique CDR3
6 unique J



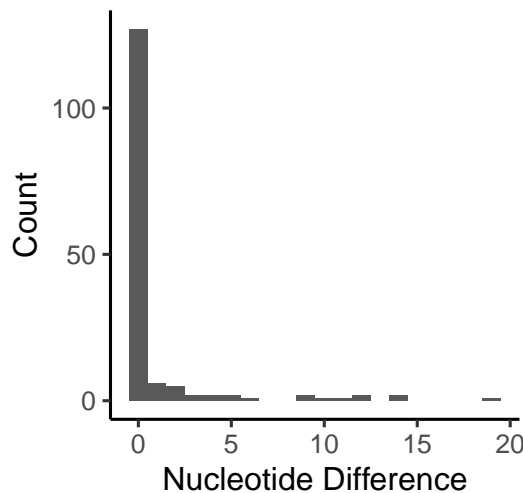
IGHV3-9*01

482 sequences assigned
403 (83.6%) exact matches, in which:
403 unique CDR3
6 unique J



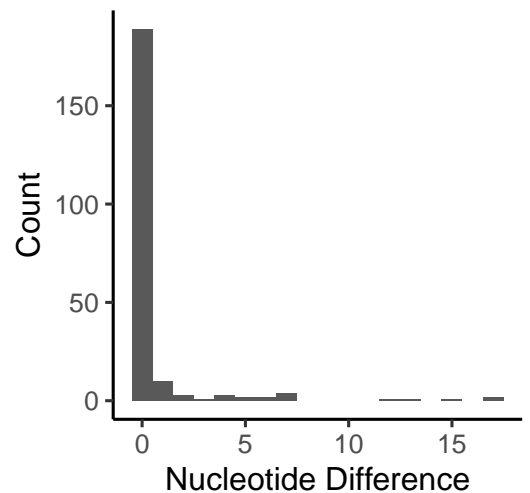
IGHV3-15*01

154 sequences assigned
127 (82.5%) exact matches, in which:
127 unique CDR3
6 unique J



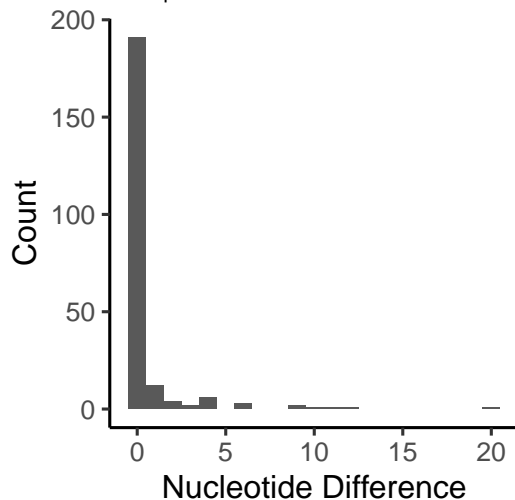
IGHV3-30-3*01

219 sequences assigned
189 (86.3%) exact matches, in which:
189 unique CDR3
6 unique J



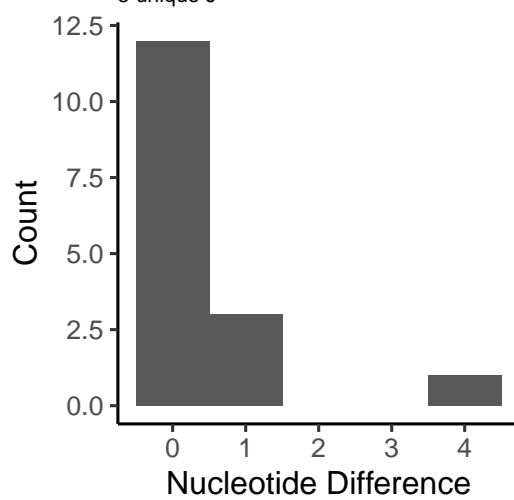
IGHV3-11*01

224 sequences assigned
191 (85.3%) exact matches, in which:
190 unique CDR3
6 unique J



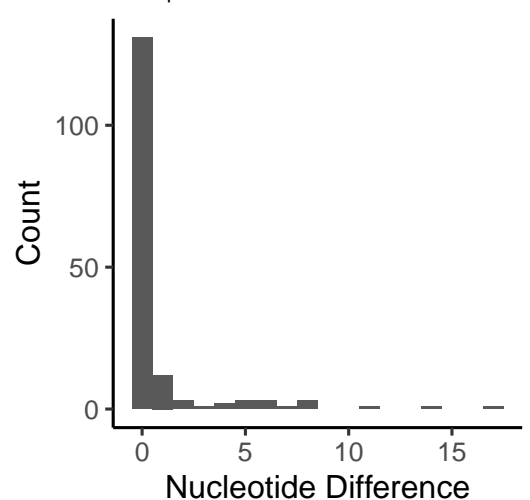
IGHV3-20*01

16 sequences assigned
12 (75%) exact matches, in which:
12 unique CDR3
5 unique J



IGHV3-33*01

162 sequences assigned
131 (80.9%) exact matches, in which:
131 unique CDR3
6 unique J



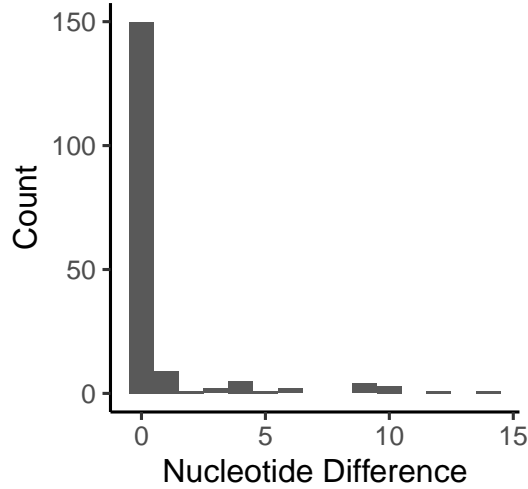
IGHV3–35*01

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



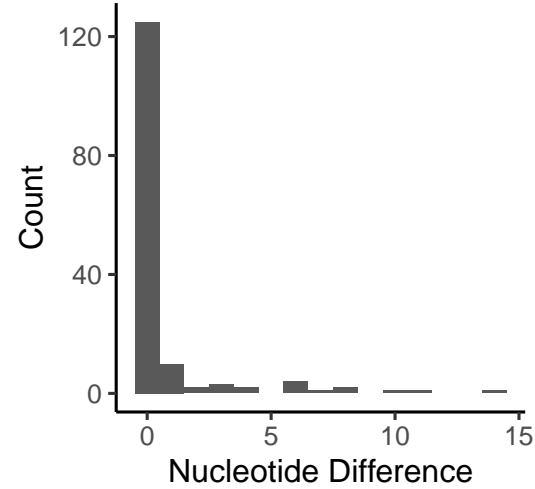
IGHV3–48*03

180 sequences assigned
150 (83.3%) exact matches, in which:
150 unique CDR3
6 unique J



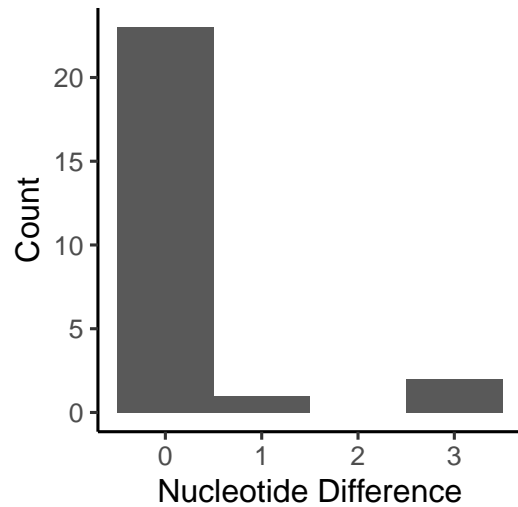
IGHV3–53*01

152 sequences assigned
125 (82.2%) exact matches, in which:
125 unique CDR3
6 unique J



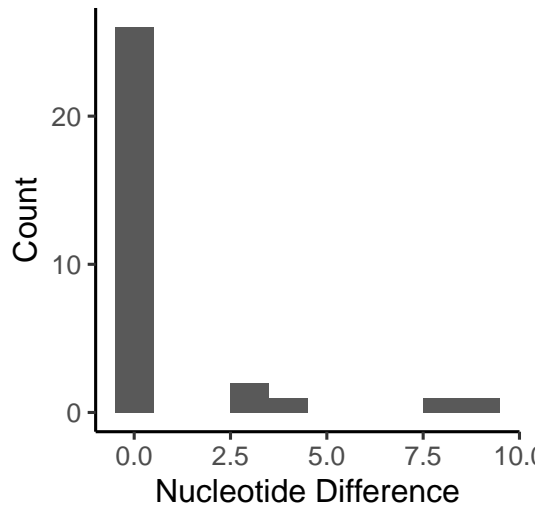
IGHV3–43*01

26 sequences assigned
23 (88.5%) exact matches, in which:
23 unique CDR3
4 unique J



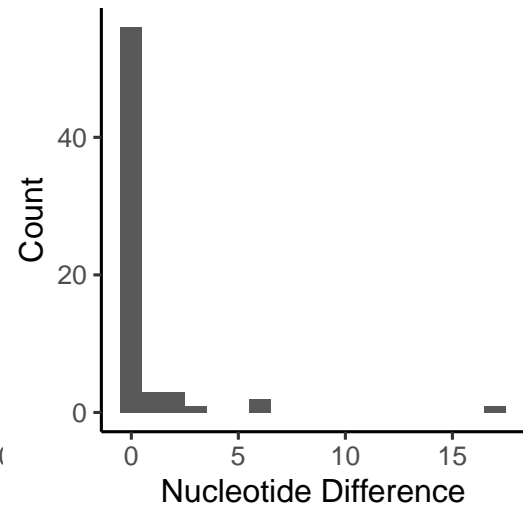
IGHV3–49*04

32 sequences assigned
26 (81.2%) exact matches, in which:
25 unique CDR3
4 unique J



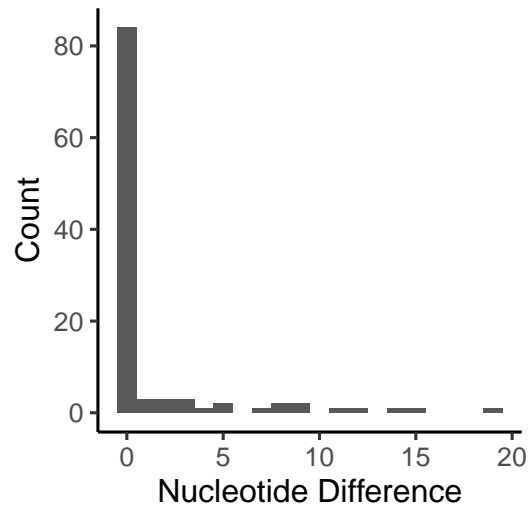
IGHV3–53*02_G88A

67 sequences assigned
56 (83.6%) exact matches, in which:
56 unique CDR3
5 unique J



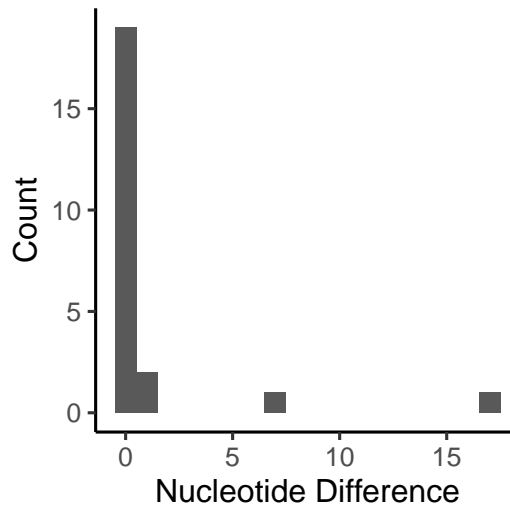
IGHV3–48*02

107 sequences assigned
84 (78.5%) exact matches, in which:
84 unique CDR3
5 unique J



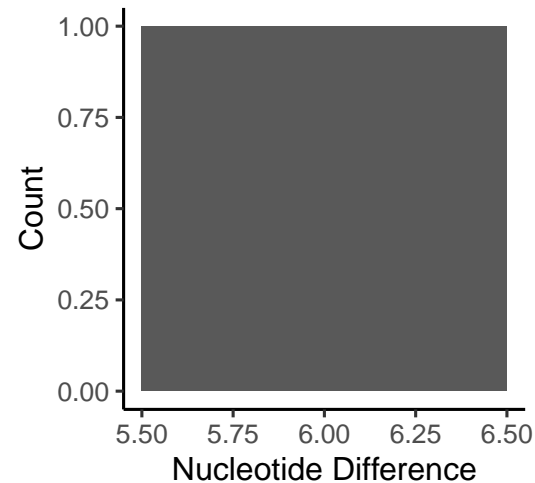
IGHV3–49*05

23 sequences assigned
19 (82.6%) exact matches, in which:
19 unique CDR3
4 unique J



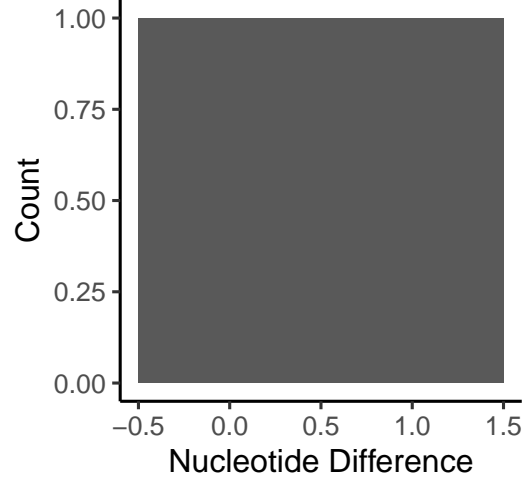
IGHV3–64*02

1 sequences assigned
No exact matches.



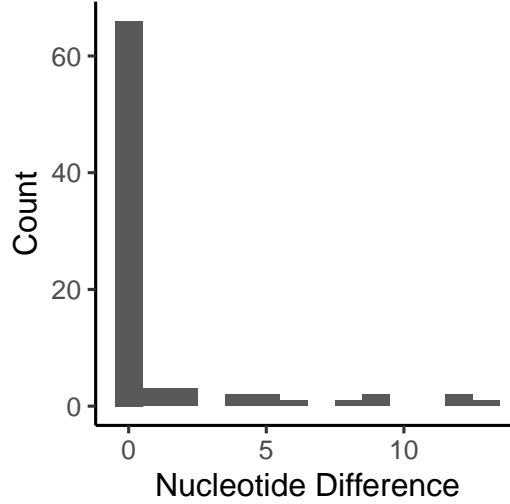
IGHV3-69-1*01

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



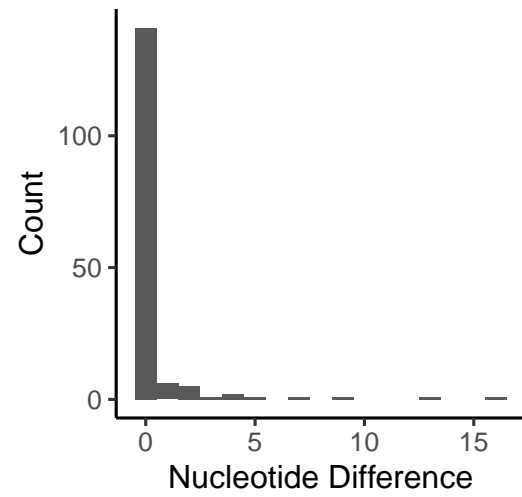
IGHV3-74*01

83 sequences assigned
66 (79.5%) exact matches, in which:
66 unique CDR3
5 unique J



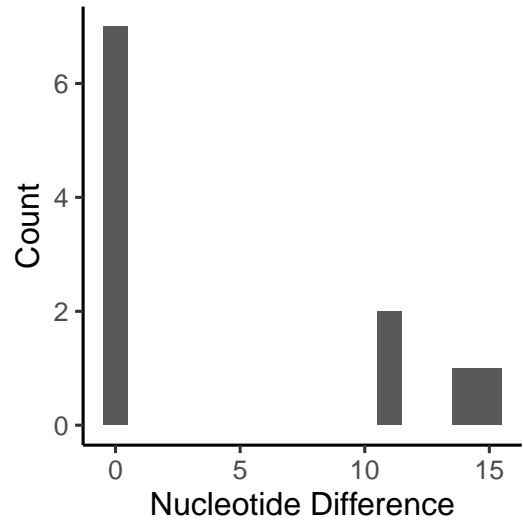
IGHV4-4*07

161 sequences assigned
141 (87.6%) exact matches, in which:
141 unique CDR3
6 unique J



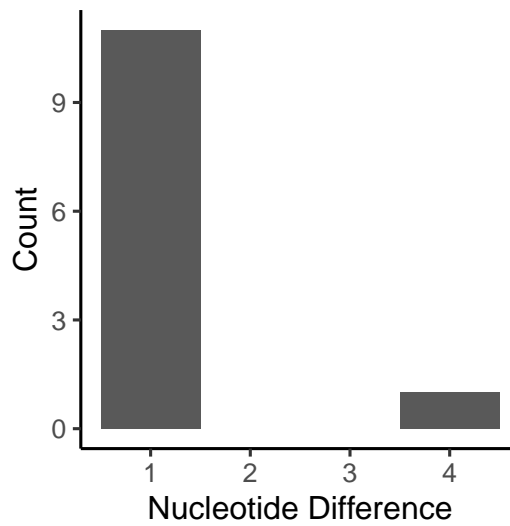
IGHV3-72*01

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
3 unique J



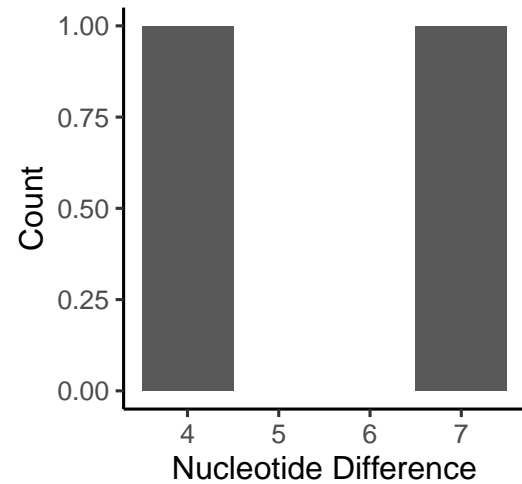
IGHV3-43D*04

12 sequences assigned
No exact matches.



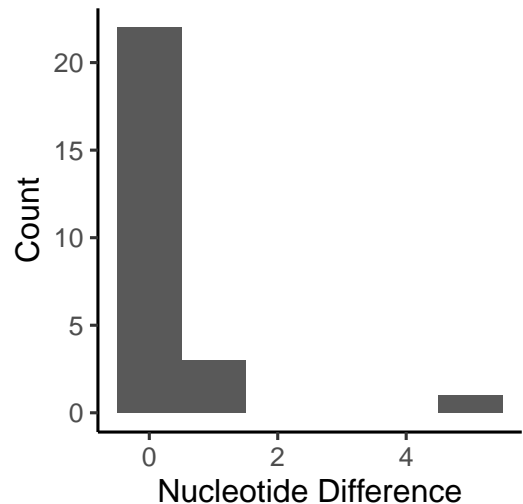
IGHV4-28*03

2 sequences assigned
No exact matches.



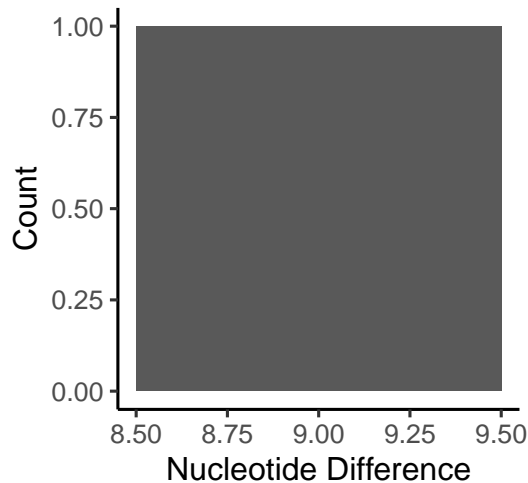
IGHV3-73*02

26 sequences assigned
22 (84.6%) exact matches, in which:
22 unique CDR3
4 unique J



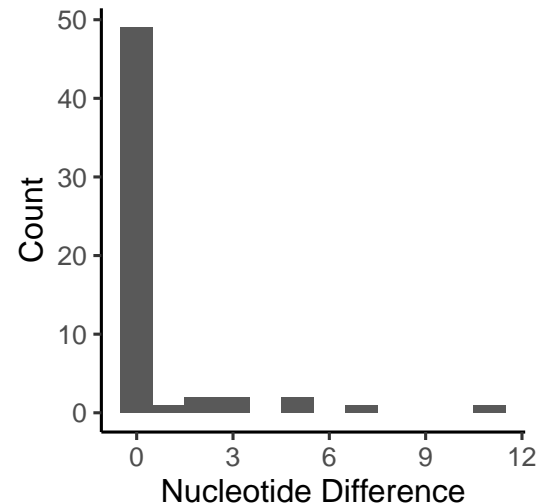
IGHV3-NL1*01

1 sequences assigned
No exact matches.



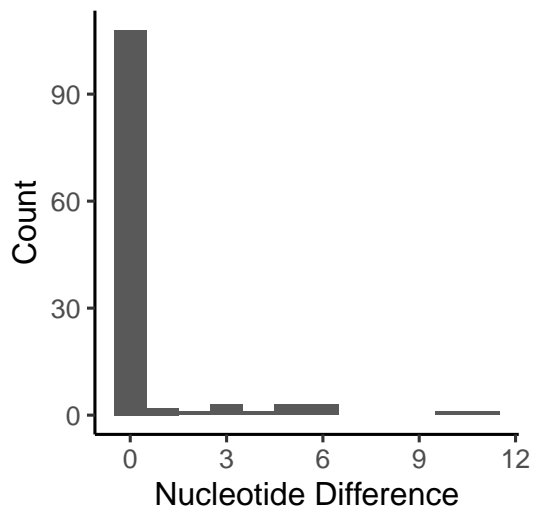
IGHV4-30-2*01

58 sequences assigned
49 (84.5%) exact matches, in which:
49 unique CDR3
5 unique J



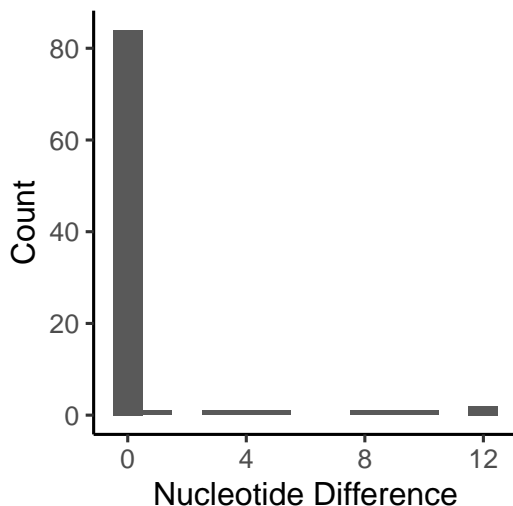
IGHV4-30-4*01

124 sequences assigned
108 (87.1%) exact matches, in which:
108 unique CDR3
6 unique J



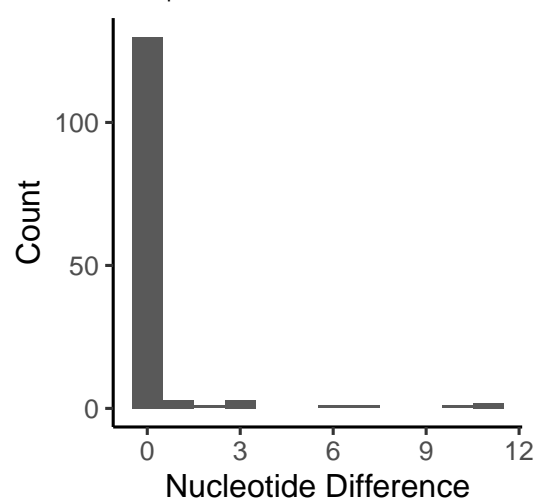
IGHV4-38-2*01

93 sequences assigned
84 (90.3%) exact matches, in which:
84 unique CDR3
6 unique J



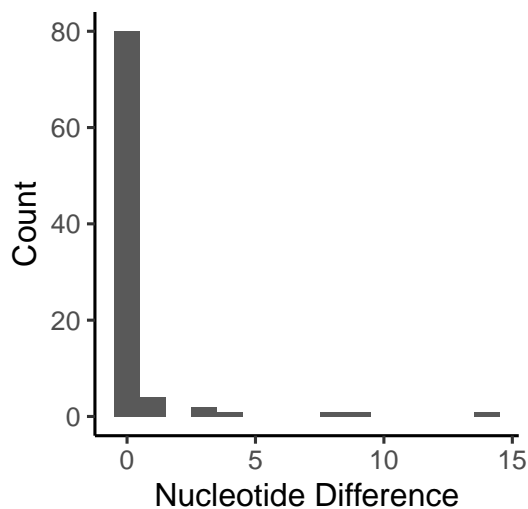
IGHV4-59*01

142 sequences assigned
130 (91.5%) exact matches, in which:
130 unique CDR3
6 unique J



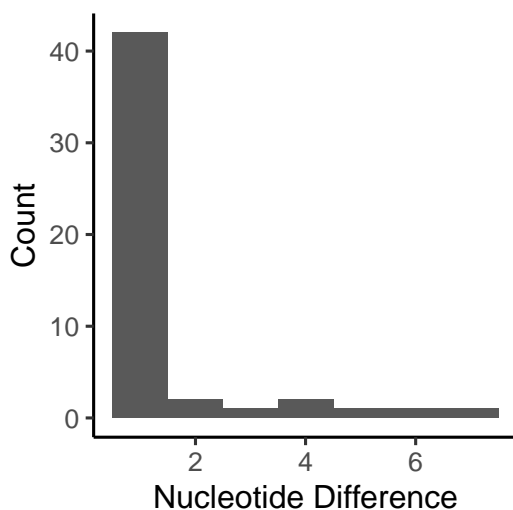
IGHV4-31*03

90 sequences assigned
80 (88.9%) exact matches, in which:
80 unique CDR3
5 unique J



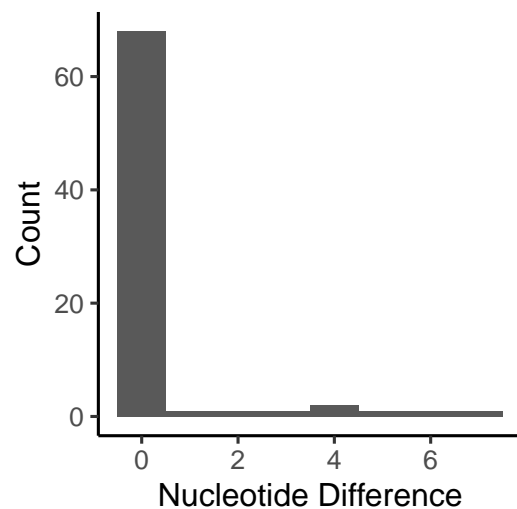
IGHV4-38-2*02

50 sequences assigned
No exact matches.



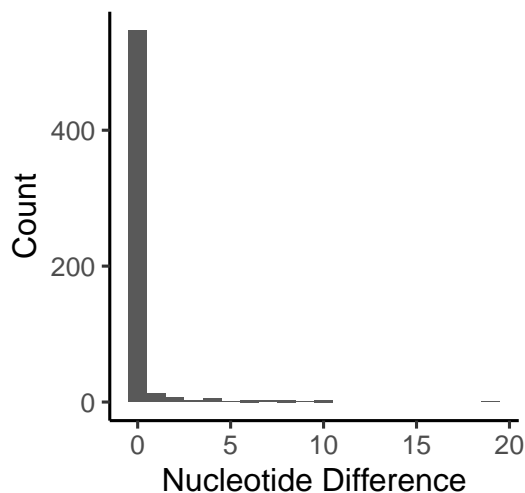
IGHV4-61*01

78 sequences assigned
68 (87.2%) exact matches, in which:
68 unique CDR3
5 unique J



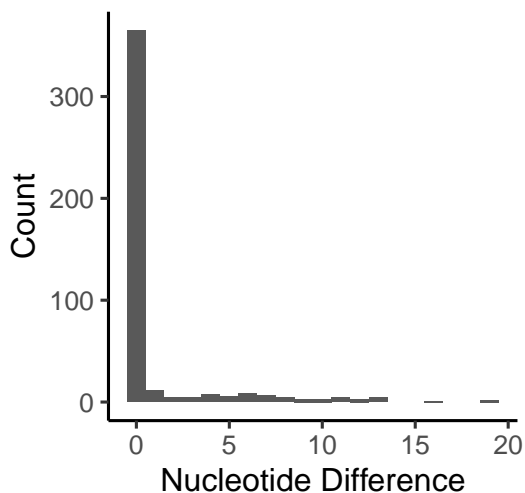
IGHV4-34*01

589 sequences assigned
547 (92.9%) exact matches, in which:
547 unique CDR3
6 unique J



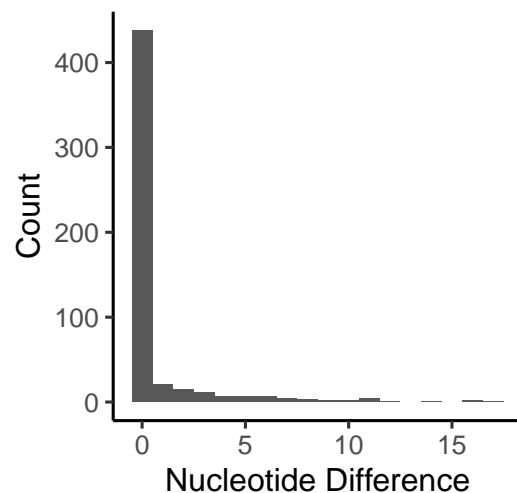
IGHV4-39*01

435 sequences assigned
365 (83.9%) exact matches, in which:
365 unique CDR3
6 unique J



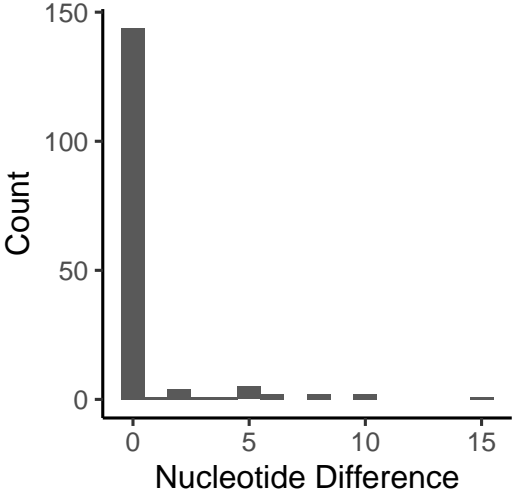
IGHV5-51*01

527 sequences assigned
438 (83.1%) exact matches, in which:
438 unique CDR3
6 unique J



IGHV6-1*01

164 sequences assigned
144 (87.8%) exact matches, in which:
143 unique CDR3
6 unique J





Warning – no inferred sequences found.