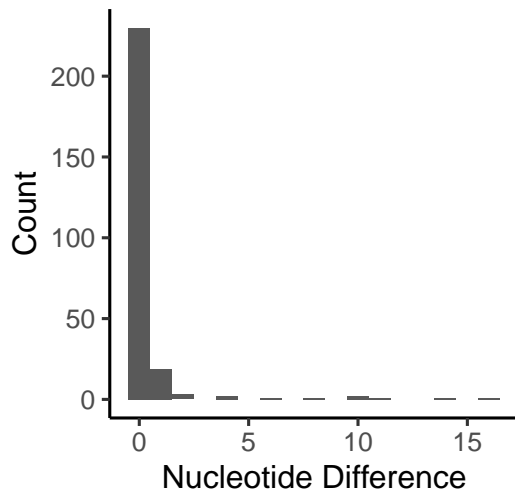


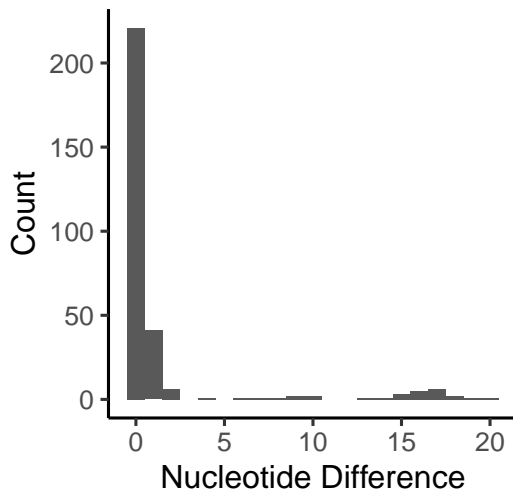
IGHV1-2*04

266 sequences assigned
230 (86.5%) exact matches, in which:
229 unique CDR3
6 unique J



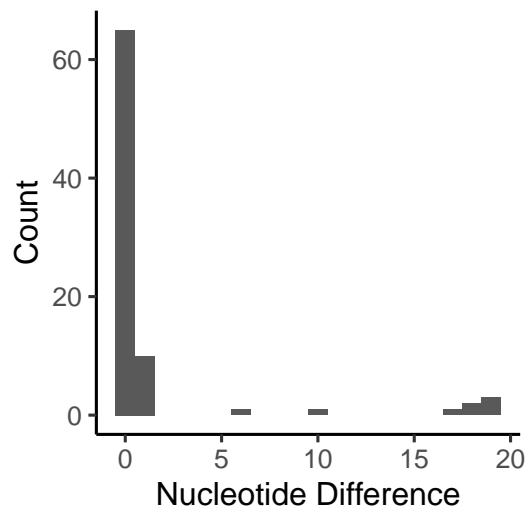
IGHV1-18*01

325 sequences assigned
221 (68%) exact matches, in which:
220 unique CDR3
6 unique J



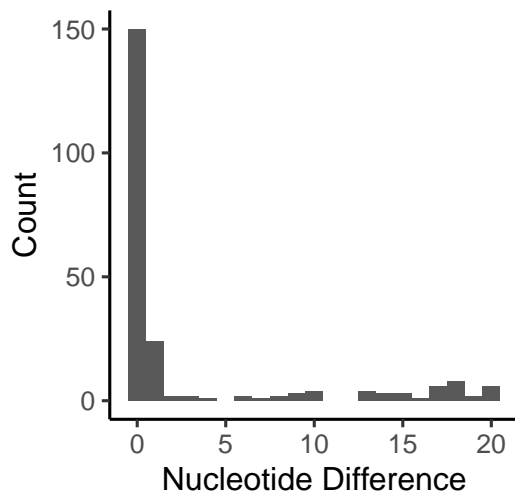
IGHV1-46*01

87 sequences assigned
65 (74.7%) exact matches, in which:
65 unique CDR3
5 unique J



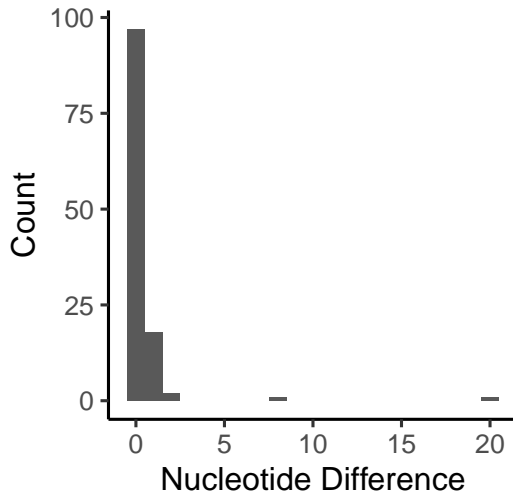
IGHV1-3*01

310 sequences assigned
150 (48.4%) exact matches, in which:
149 unique CDR3
6 unique J



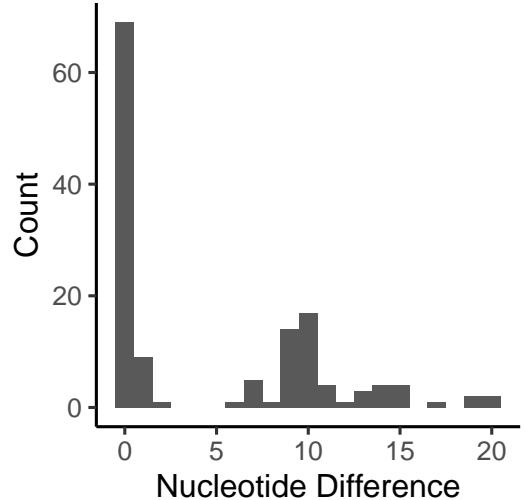
IGHV1-24*01

122 sequences assigned
97 (79.5%) exact matches, in which:
97 unique CDR3
6 unique J



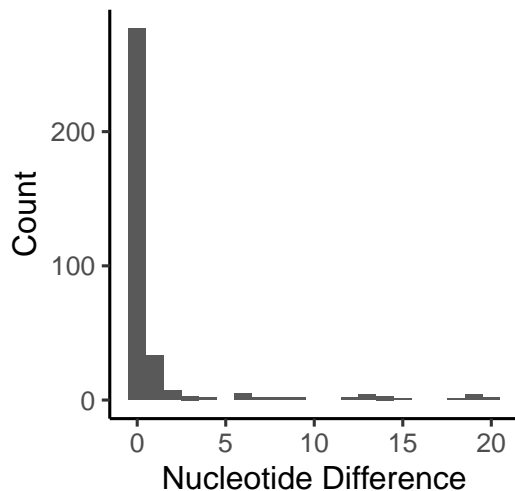
IGHV1-46*03

180 sequences assigned
69 (38.3%) exact matches, in which:
69 unique CDR3
5 unique J



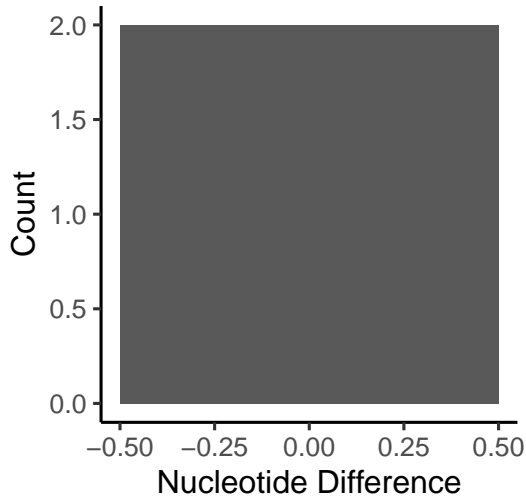
IGHV1-8*01

360 sequences assigned
277 (76.9%) exact matches, in which:
277 unique CDR3
6 unique J



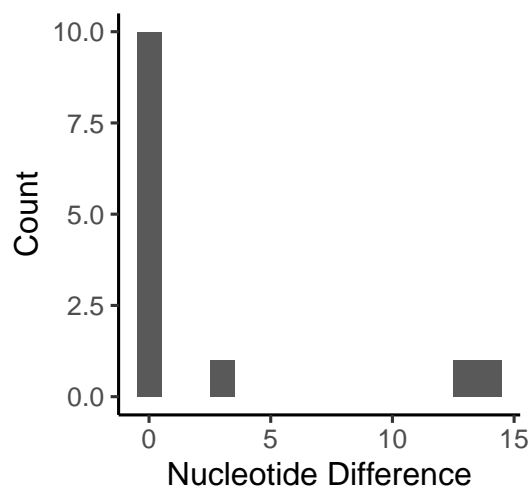
IGHV1-45*02

23 sequences assigned
2 (8.7%) exact matches, in which:
2 unique CDR3
2 unique J



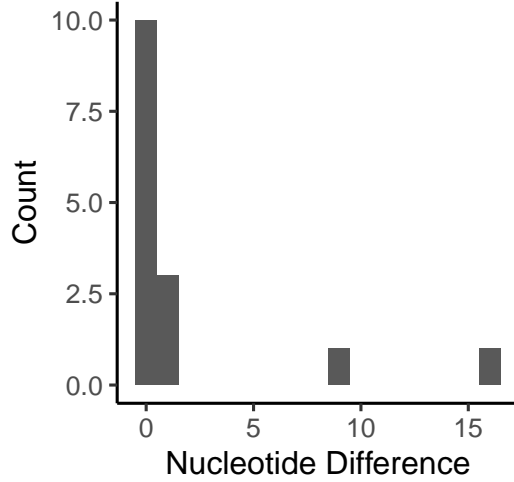
IGHV1-58*01

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
4 unique J



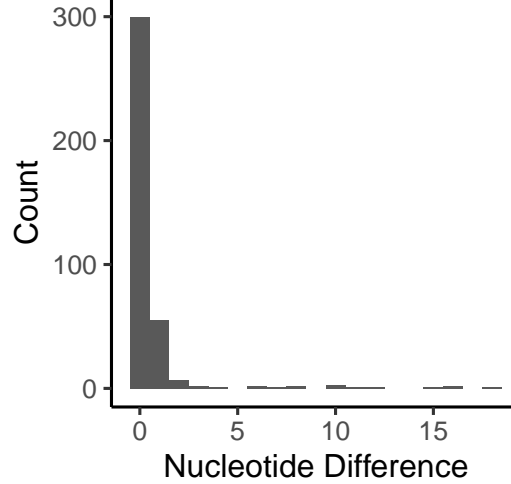
IGHV1-58*02

17 sequences assigned
10 (58.8%) exact matches, in which:
10 unique CDR3
3 unique J



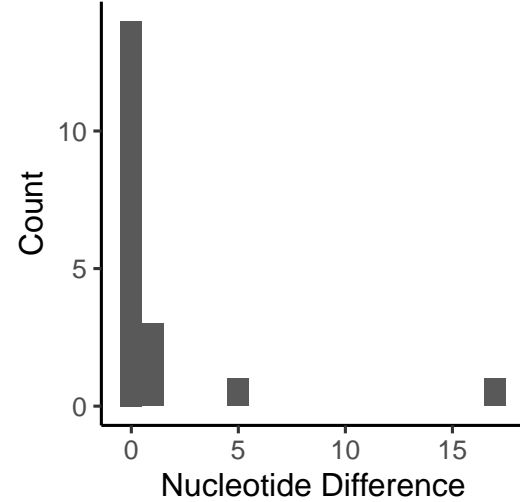
IGHV1-69*06

397 sequences assigned
300 (75.6%) exact matches, in which:
298 unique CDR3
6 unique J



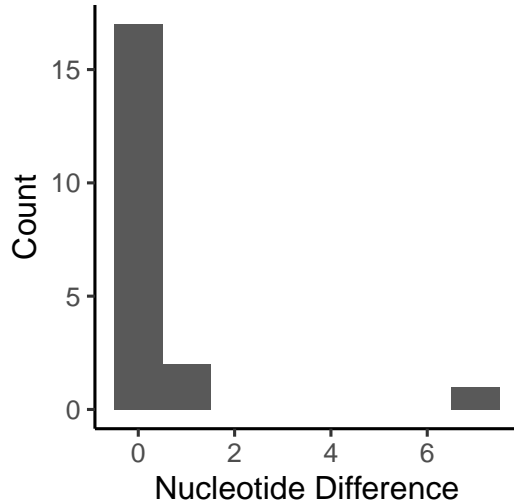
IGHV2-70*01

20 sequences assigned
14 (70%) exact matches, in which:
14 unique CDR3
3 unique J



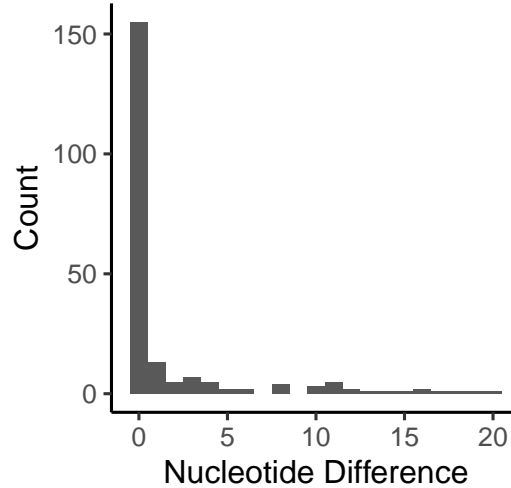
IGHV1-69-2*01

23 sequences assigned
17 (73.9%) exact matches, in which:
17 unique CDR3
3 unique J



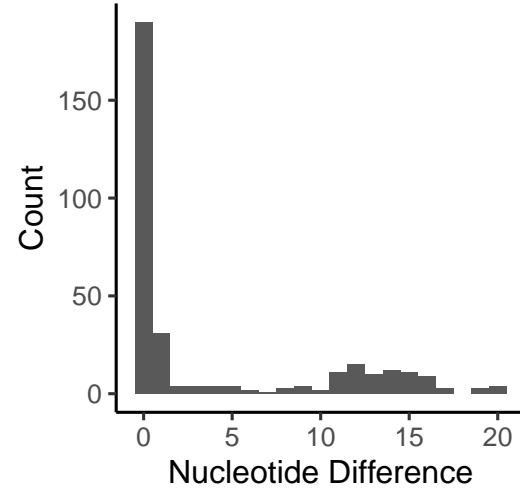
IGHV2-5*02

234 sequences assigned
155 (66.2%) exact matches, in which:
155 unique CDR3
6 unique J



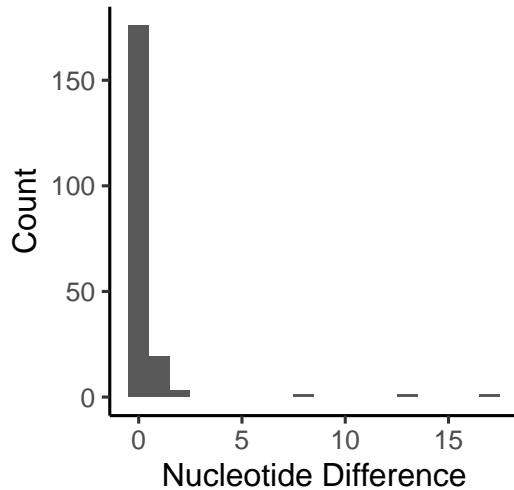
IGHV3-7*01

341 sequences assigned
190 (55.7%) exact matches, in which:
190 unique CDR3
6 unique J



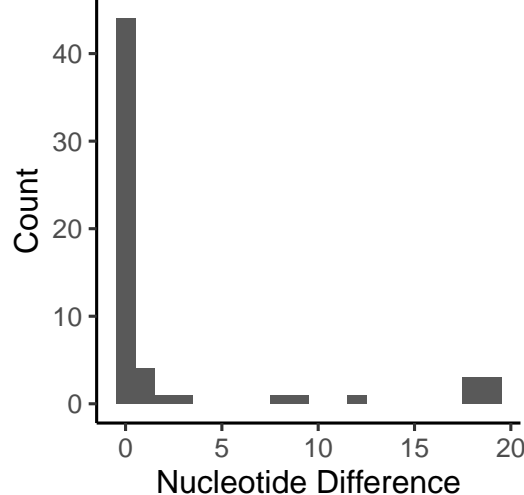
IGHV1-69*02

222 sequences assigned
176 (79.3%) exact matches, in which:
176 unique CDR3
6 unique J



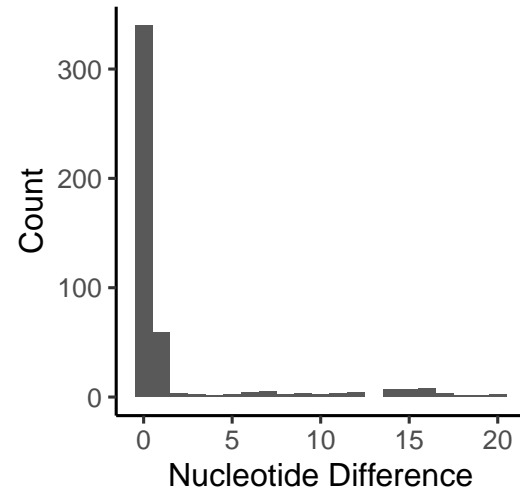
IGHV2-26*01

61 sequences assigned
44 (72.1%) exact matches, in which:
44 unique CDR3
5 unique J



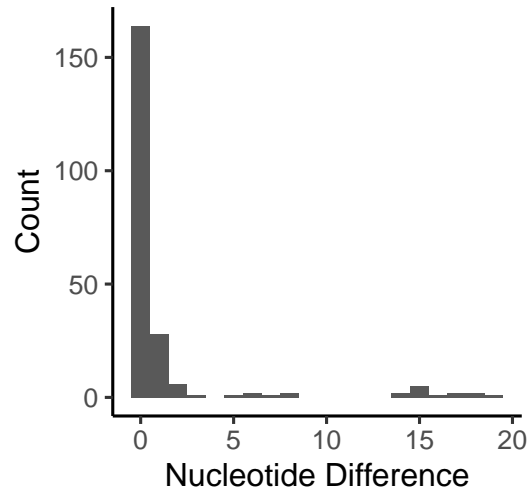
IGHV3-9*01

487 sequences assigned
340 (69.8%) exact matches, in which:
339 unique CDR3
6 unique J



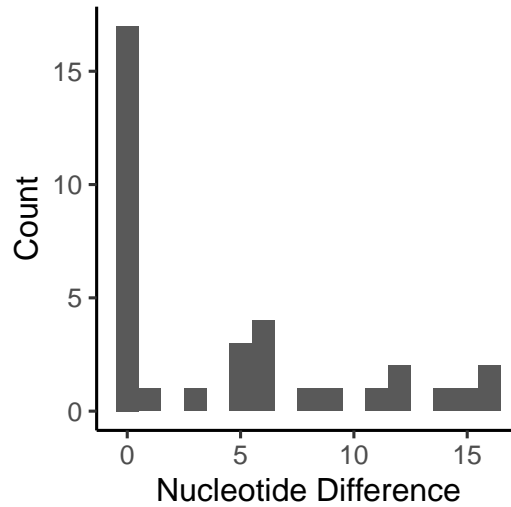
IGHV3-11*01

232 sequences assigned
164 (70.7%) exact matches, in which:
164 unique CDR3
5 unique J



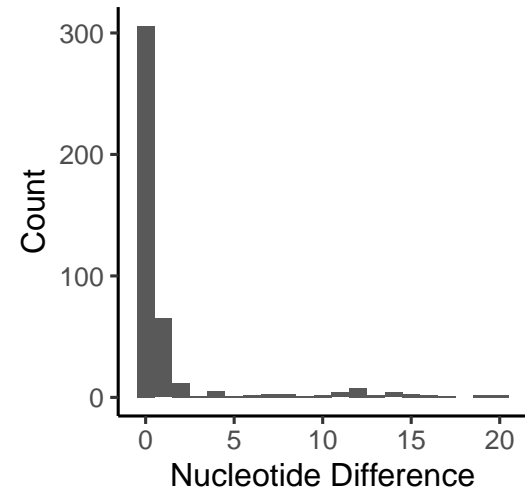
IGHV3-20*01

36 sequences assigned
17 (47.2%) exact matches, in which:
17 unique CDR3
4 unique J



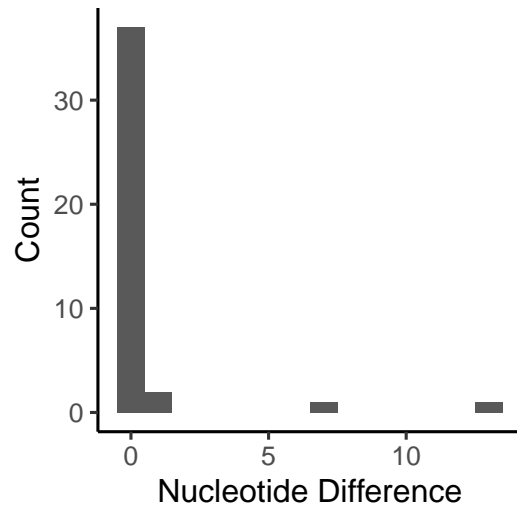
IGHV3-33*01

458 sequences assigned
306 (66.8%) exact matches, in which:
304 unique CDR3
6 unique J



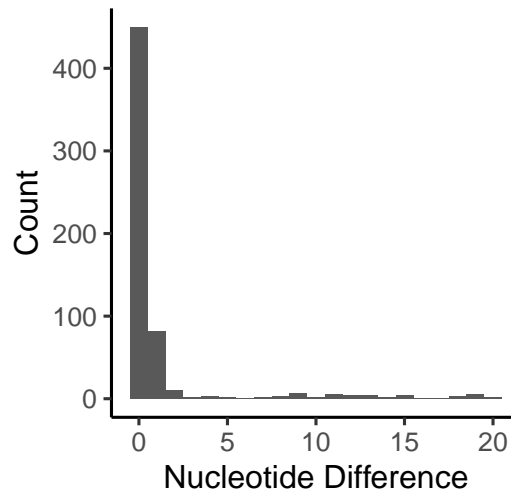
IGHV3-13*01

48 sequences assigned
37 (77.1%) exact matches, in which:
37 unique CDR3
5 unique J



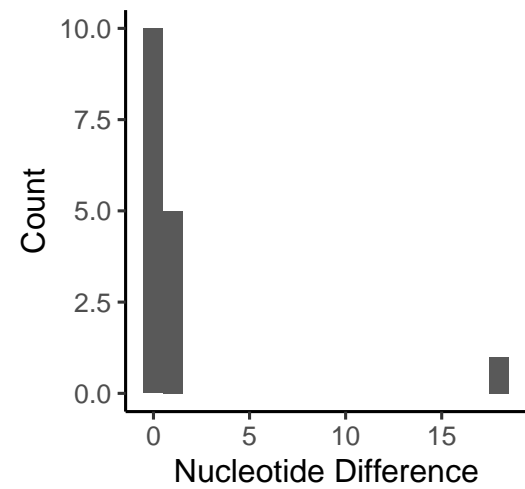
IGHV3-21*01

616 sequences assigned
450 (73.1%) exact matches, in which:
448 unique CDR3
6 unique J



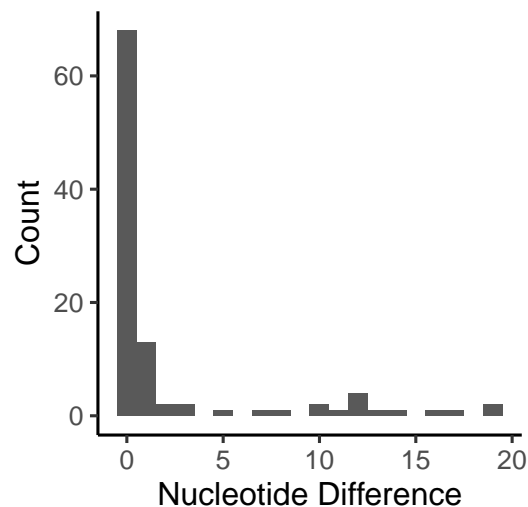
IGHV3-43*01

16 sequences assigned
10 (62.5%) exact matches, in which:
10 unique CDR3
2 unique J



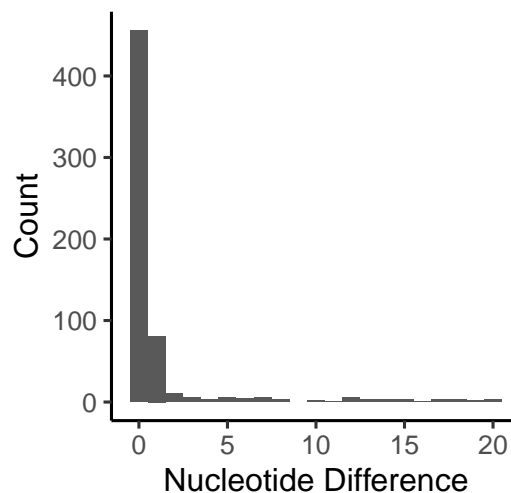
IGHV3-15*01

107 sequences assigned
68 (63.6%) exact matches, in which:
68 unique CDR3
5 unique J



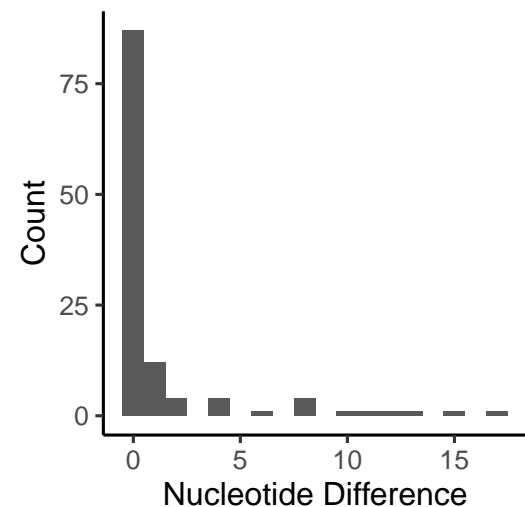
IGHV3-30-3*01

632 sequences assigned
456 (72.2%) exact matches, in which:
454 unique CDR3
6 unique J



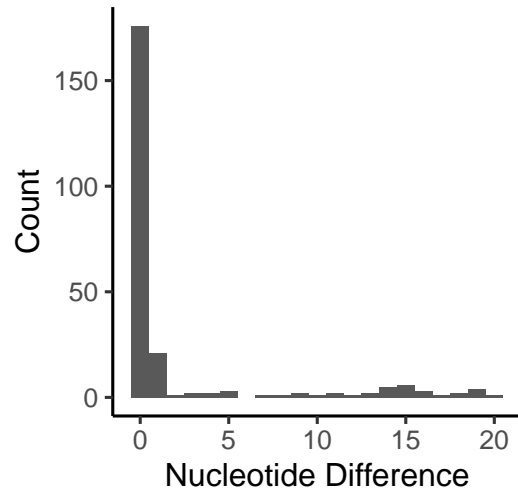
IGHV3-48*01

127 sequences assigned
87 (68.5%) exact matches, in which:
87 unique CDR3
5 unique J



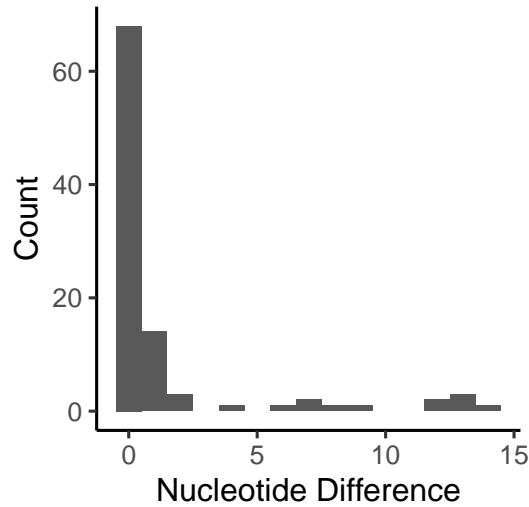
IGHV3-48*03

244 sequences assigned
176 (72.1%) exact matches, in which:
173 unique CDR3
6 unique J



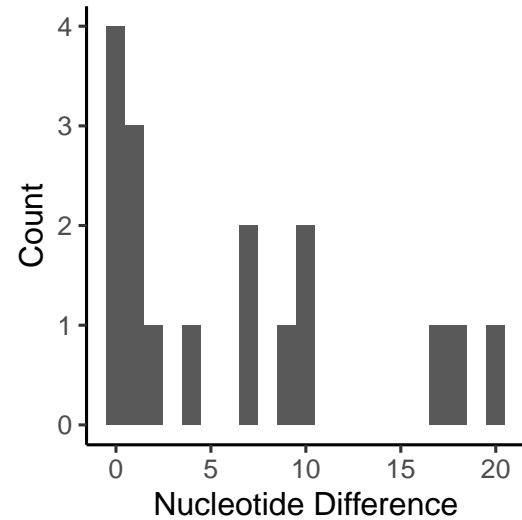
IGHV3-53*02

98 sequences assigned
68 (69.4%) exact matches, in which:
68 unique CDR3
4 unique J



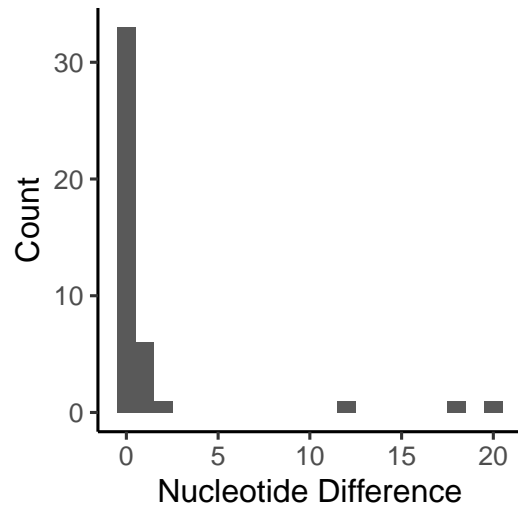
IGHV3-72*01

19 sequences assigned
4 (21.1%) exact matches, in which:
4 unique CDR3
3 unique J



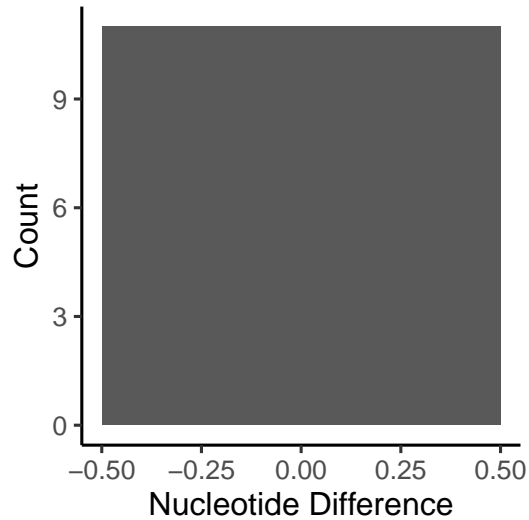
IGHV3-49*03

44 sequences assigned
33 (75%) exact matches, in which:
32 unique CDR3
4 unique J



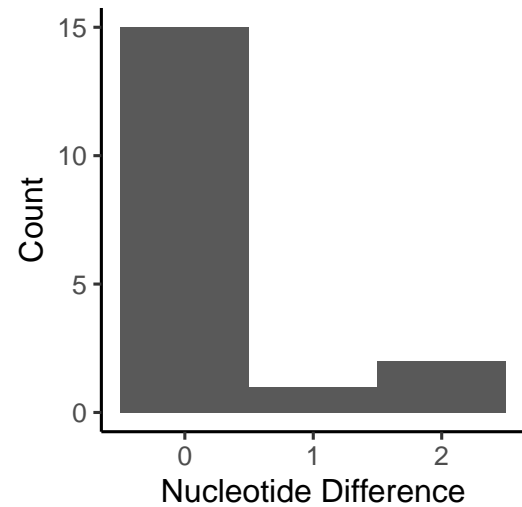
IGHV3-64*01

11 sequences assigned
11 (100%) exact matches, in which:
11 unique CDR3
3 unique J



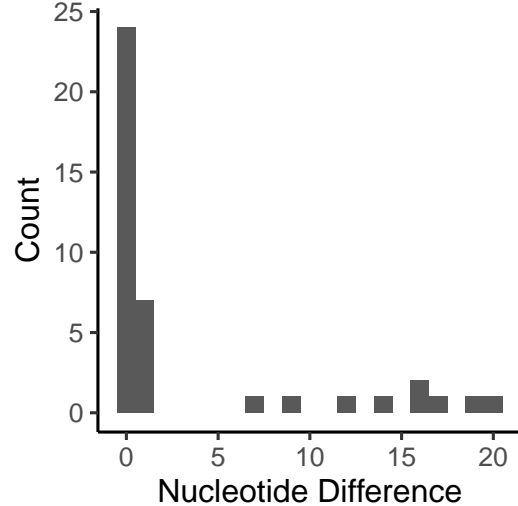
IGHV3-73*01

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



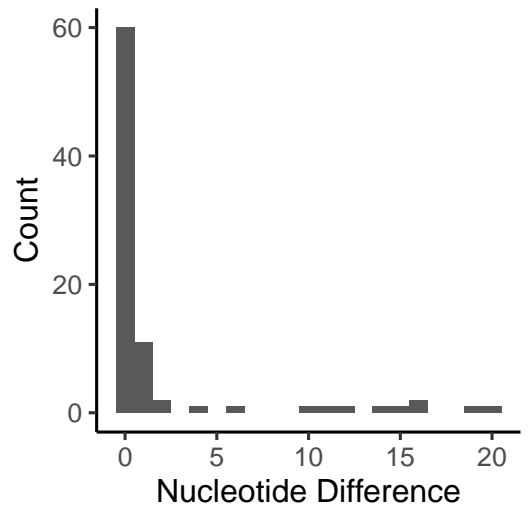
IGHV3-49*04

50 sequences assigned
24 (48%) exact matches, in which:
24 unique CDR3
5 unique J



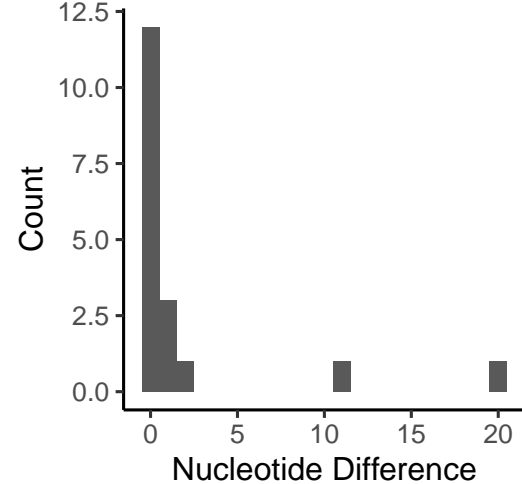
IGHV3-66*02

87 sequences assigned
60 (69%) exact matches, in which:
60 unique CDR3
5 unique J



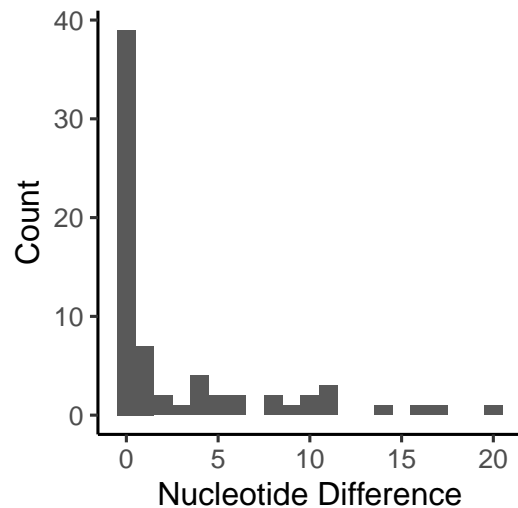
IGHV3-73*02

21 sequences assigned
12 (57.1%) exact matches, in which:
12 unique CDR3
4 unique J



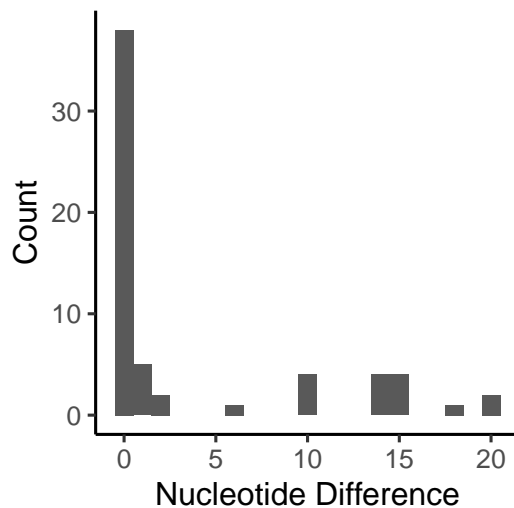
IGHV3-74*01

72 sequences assigned
39 (54.2%) exact matches, in which:
39 unique CDR3
4 unique J



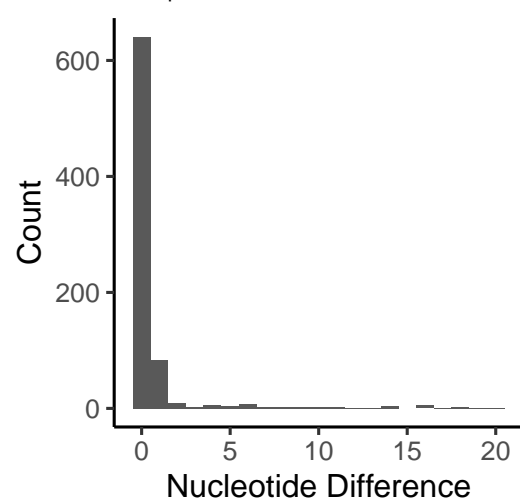
IGHV4-30-4*01

69 sequences assigned
38 (55.1%) exact matches, in which:
38 unique CDR3
6 unique J



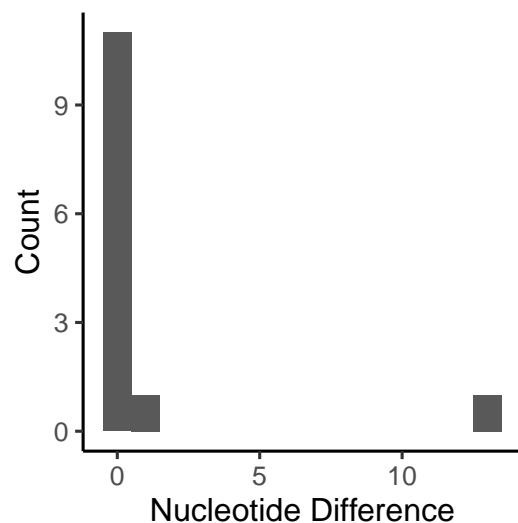
IGHV4-34*01

807 sequences assigned
641 (79.4%) exact matches, in which:
639 unique CDR3
6 unique J



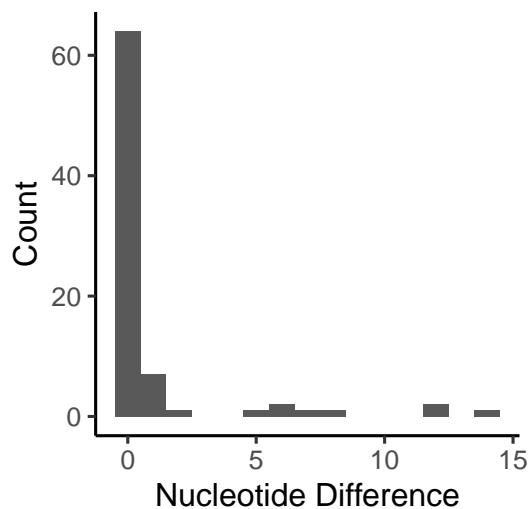
IGHV3-43D*04

13 sequences assigned
11 (84.6%) exact matches, in which:
11 unique CDR3
4 unique J



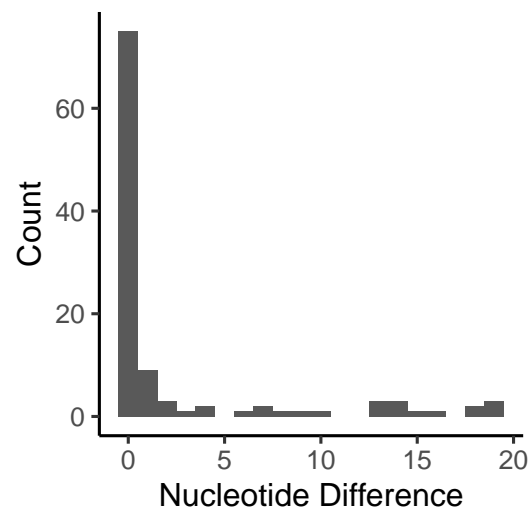
IGHV4-30-2*01

85 sequences assigned
64 (75.3%) exact matches, in which:
64 unique CDR3
5 unique J



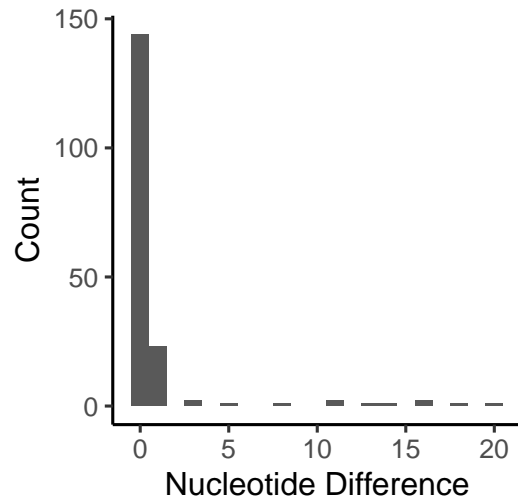
IGHV4-38-2*02_A70G

134 sequences assigned
75 (56%) exact matches, in which:
75 unique CDR3
5 unique J



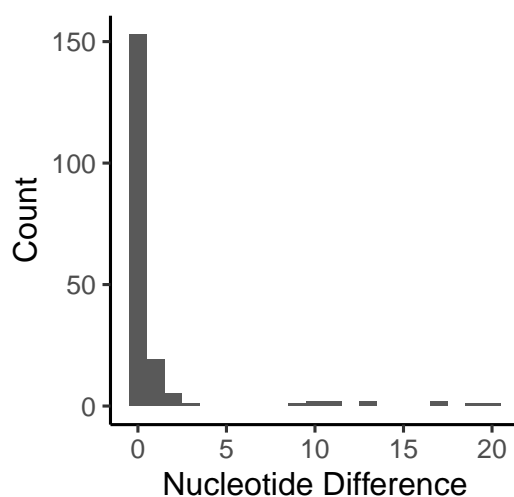
IGHV4-4*02

186 sequences assigned
144 (77.4%) exact matches, in which:
144 unique CDR3
6 unique J



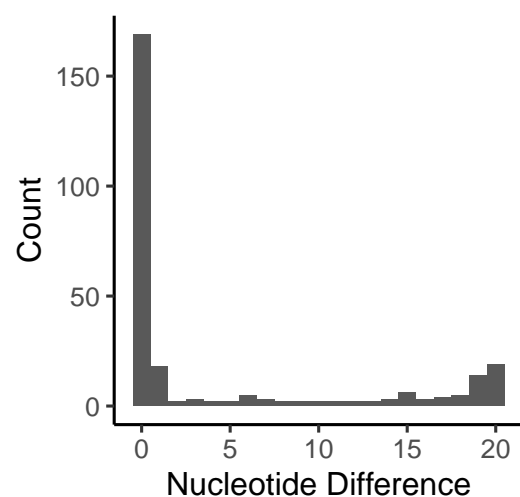
IGHV4-31*03

233 sequences assigned
153 (65.7%) exact matches, in which:
153 unique CDR3
5 unique J



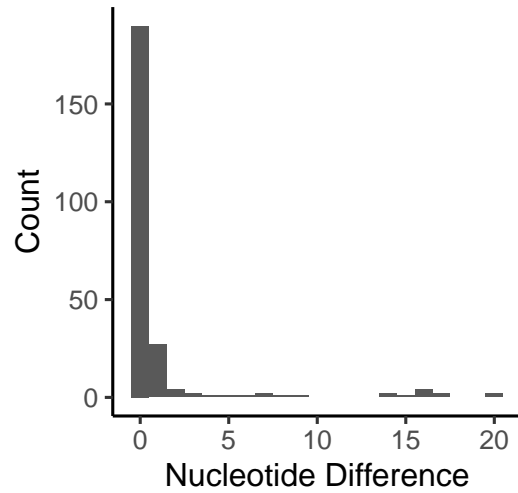
IGHV4-39*01

302 sequences assigned
169 (56%) exact matches, in which:
169 unique CDR3
6 unique J



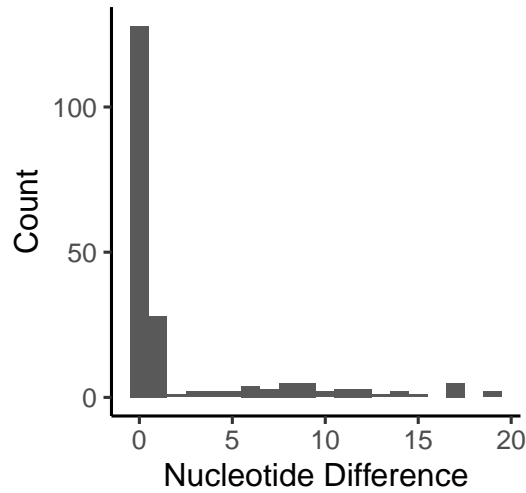
IGHV4–59*01

255 sequences assigned
190 (74.5%) exact matches, in which:
189 unique CDR3
6 unique J



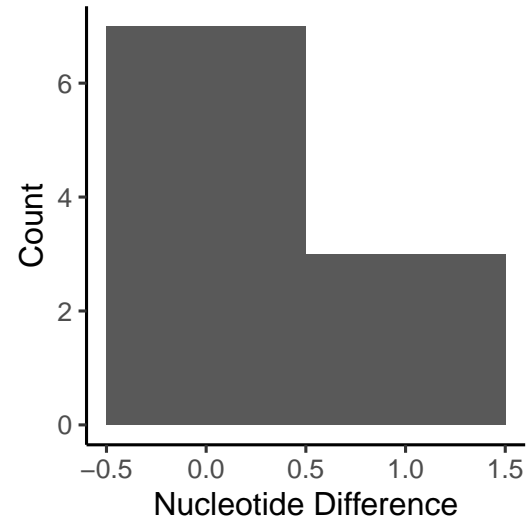
IGHV5–51*01

224 sequences assigned
128 (57.1%) exact matches, in which:
128 unique CDR3
6 unique J



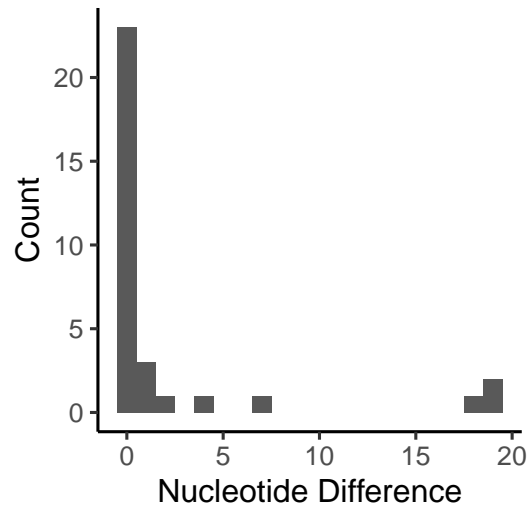
IGHV7–4–1*01

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



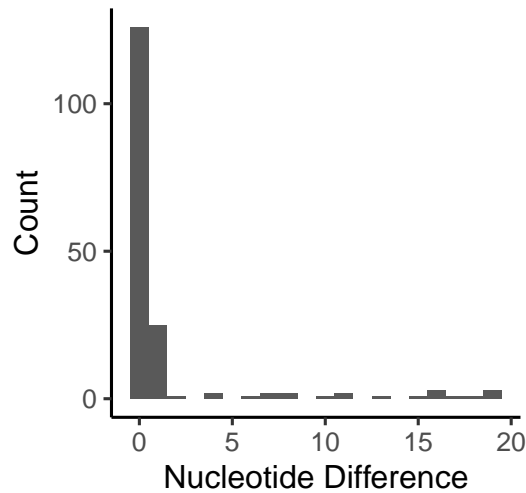
IGHV4–61*01

34 sequences assigned
23 (67.6%) exact matches, in which:
23 unique CDR3
5 unique J



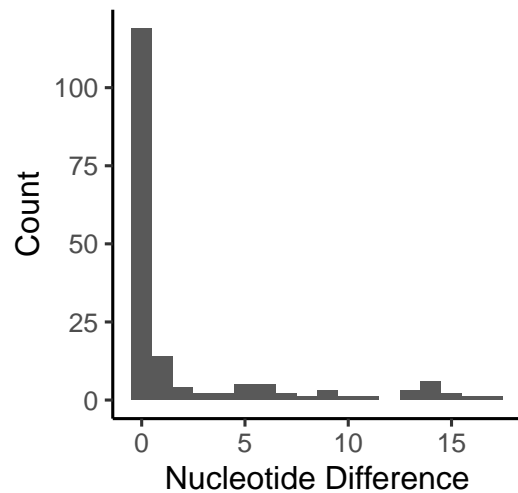
IGHV5–51*01_C45G

183 sequences assigned
126 (68.9%) exact matches, in which:
125 unique CDR3
5 unique J



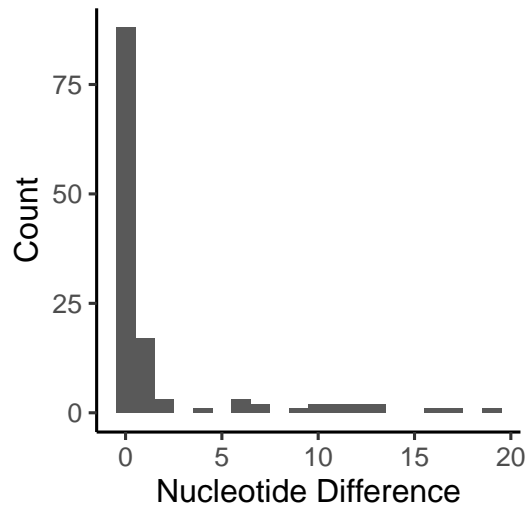
IGHV4–61*02

192 sequences assigned
119 (62%) exact matches, in which:
118 unique CDR3
6 unique J



IGHV6–1*01

127 sequences assigned
88 (69.3%) exact matches, in which:
88 unique CDR3
6 unique J





Warning – no inferred sequences found.