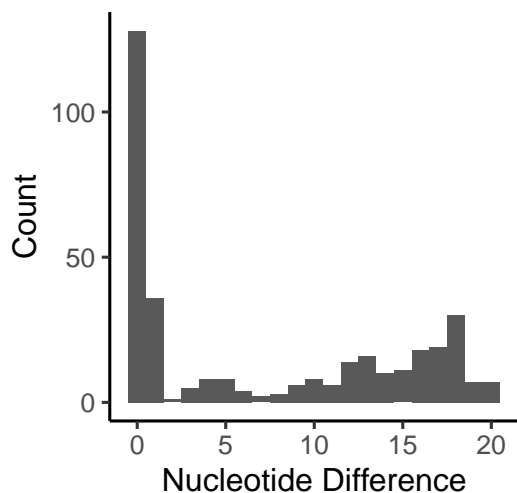


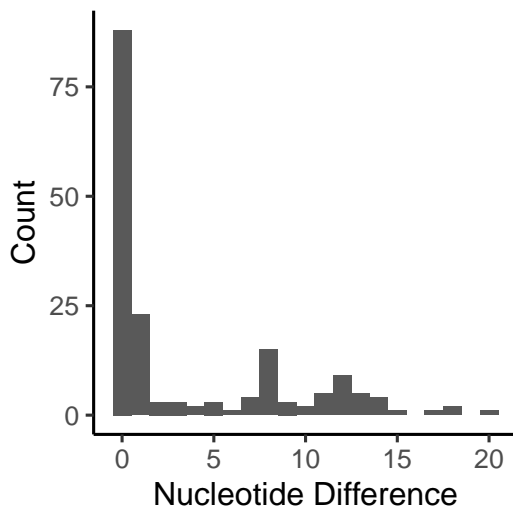
IGHV1-2*02

469 sequences assigned
128 (27.3%) exact matches, in which:
126 unique CDR3
6 unique J



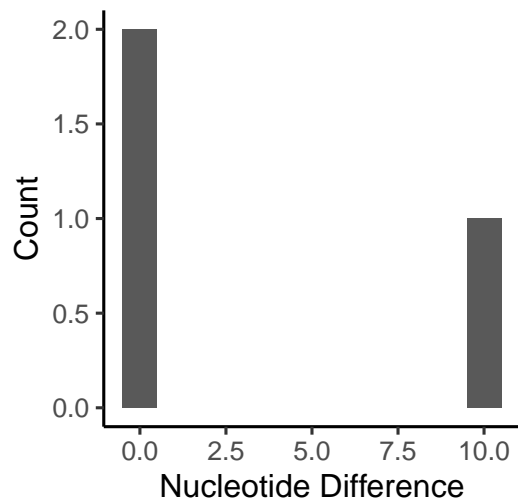
IGHV1-8*01

181 sequences assigned
88 (48.6%) exact matches, in which:
87 unique CDR3
6 unique J



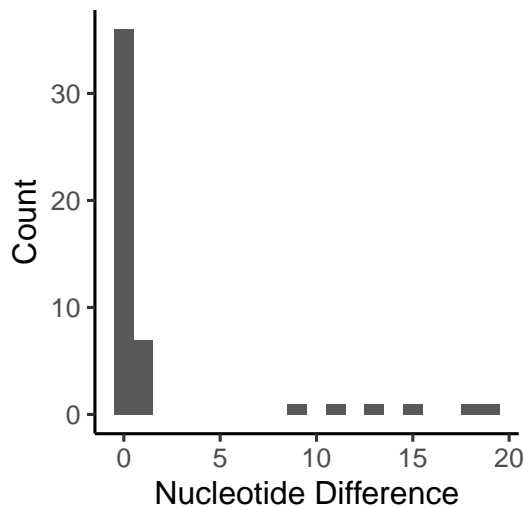
IGHV1-45*02

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



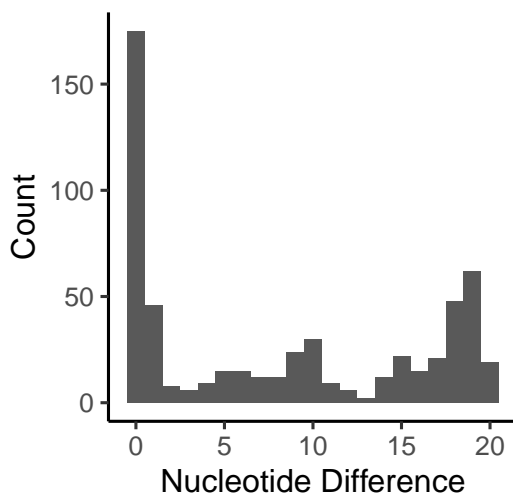
IGHV1-2*04

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



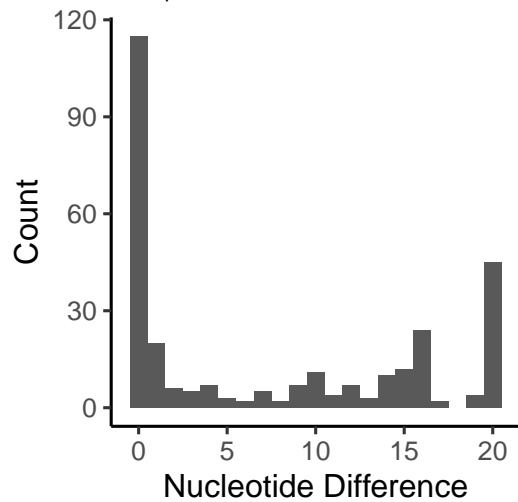
IGHV1-18*04

665 sequences assigned
175 (26.3%) exact matches, in which:
171 unique CDR3
5 unique J



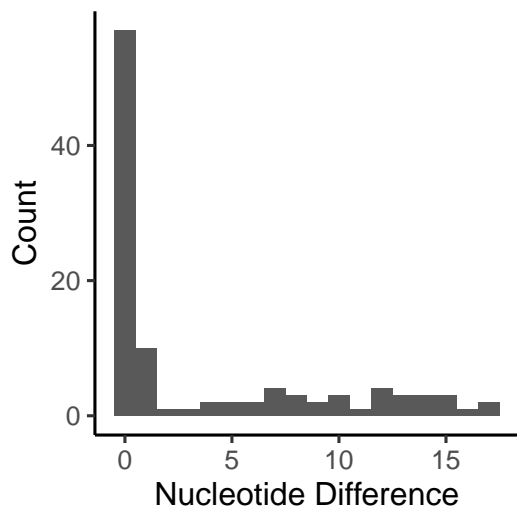
IGHV1-46*01

408 sequences assigned
115 (28.2%) exact matches, in which:
113 unique CDR3
6 unique J



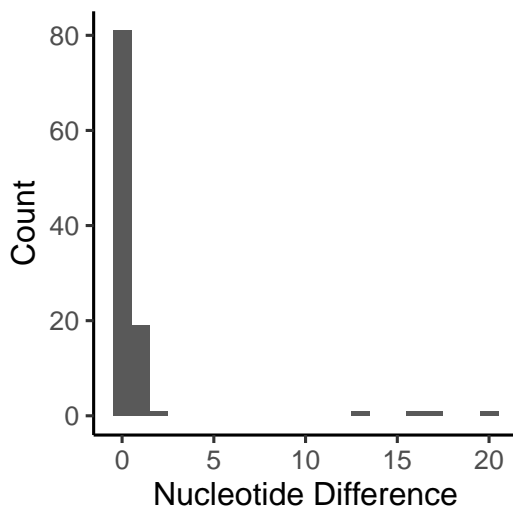
IGHV1-3*01_05

115 sequences assigned
57 (49.6%) exact matches, in which:
56 unique CDR3
6 unique J



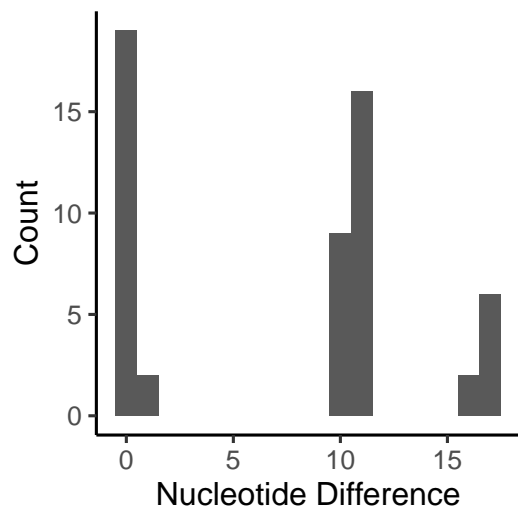
IGHV1-24*01

106 sequences assigned
81 (76.4%) exact matches, in which:
77 unique CDR3
6 unique J



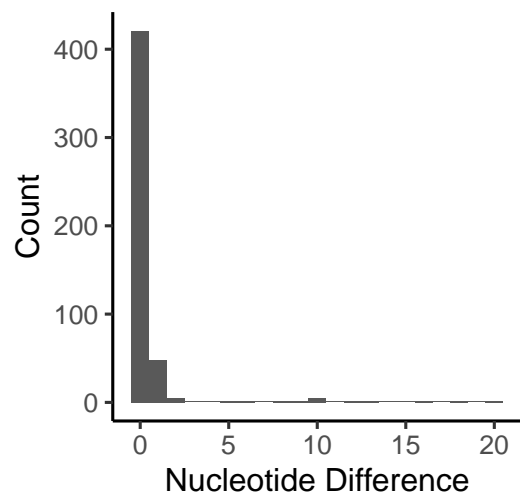
IGHV1-58*01_03

64 sequences assigned
19 (29.7%) exact matches, in which:
18 unique CDR3
3 unique J



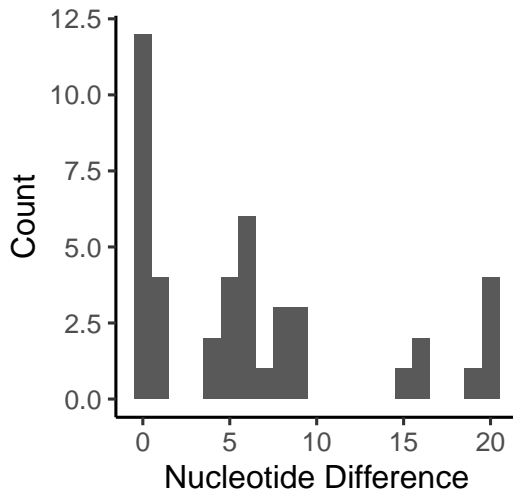
IGHV1-69*01_12_13

523 sequences assigned
421 (80.5%) exact matches, in which:
420 unique CDR3
6 unique J



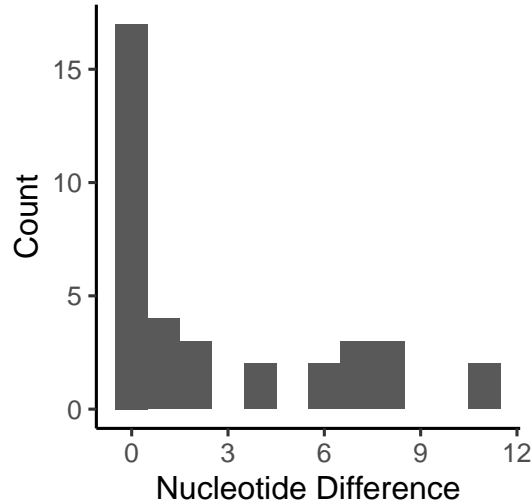
IGHV2-5*02

62 sequences assigned
12 (19.4%) exact matches, in which:
11 unique CDR3
4 unique J



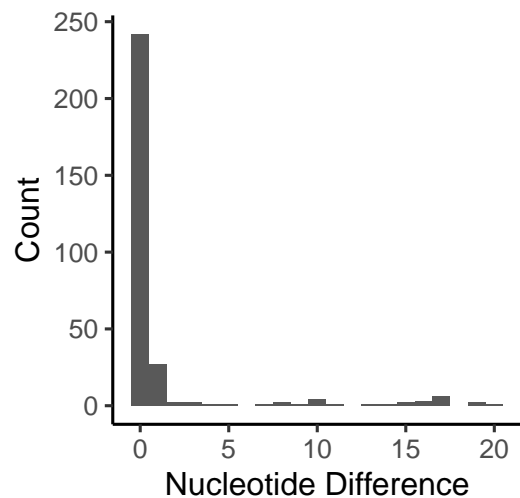
IGHV2-70*11_15

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



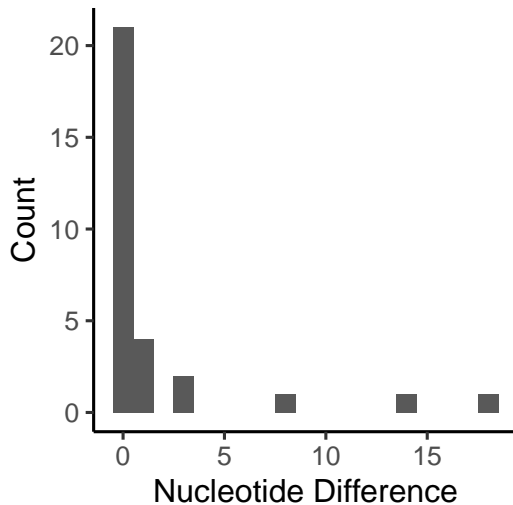
IGHV1-69*06_14

404 sequences assigned
242 (59.9%) exact matches, in which:
241 unique CDR3
6 unique J



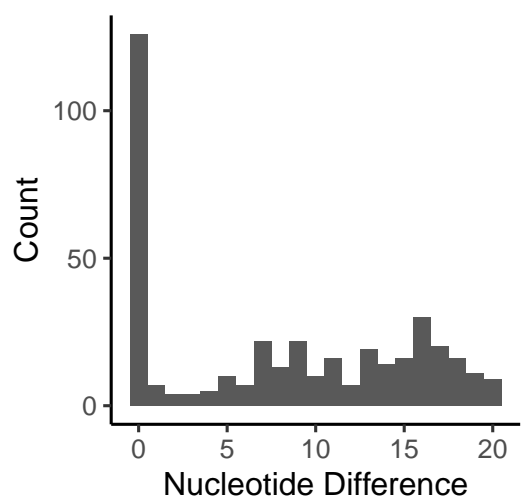
IGHV2-26*01

40 sequences assigned
21 (52.5%) exact matches, in which:
20 unique CDR3
5 unique J



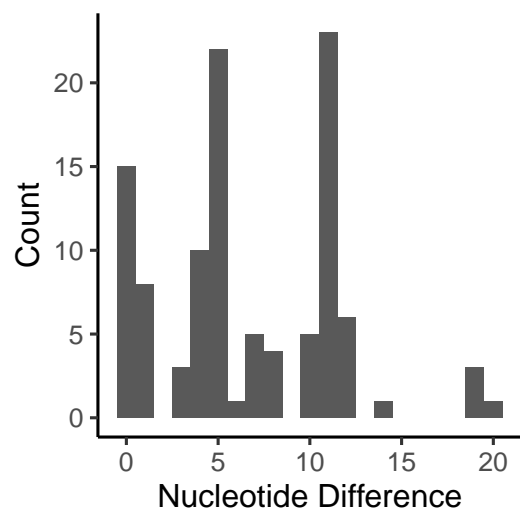
IGHV3-7*01

432 sequences assigned
126 (29.2%) exact matches, in which:
69 unique CDR3
5 unique J



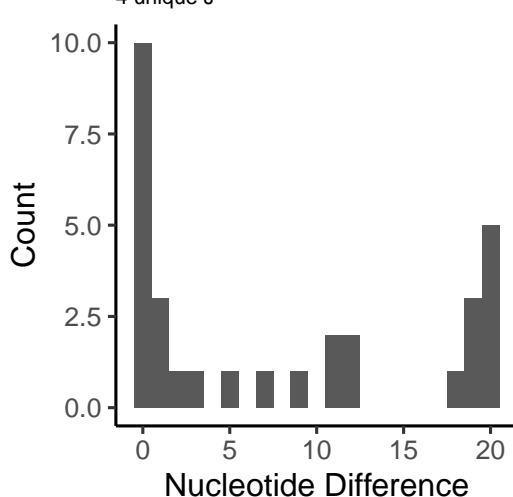
IGHV2-5*01

112 sequences assigned
15 (13.4%) exact matches, in which:
15 unique CDR3
4 unique J



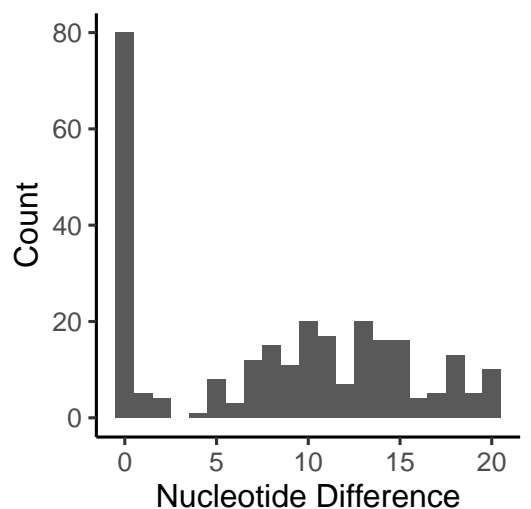
IGHV2-70*01

39 sequences assigned
10 (25.6%) exact matches, in which:
10 unique CDR3
4 unique J



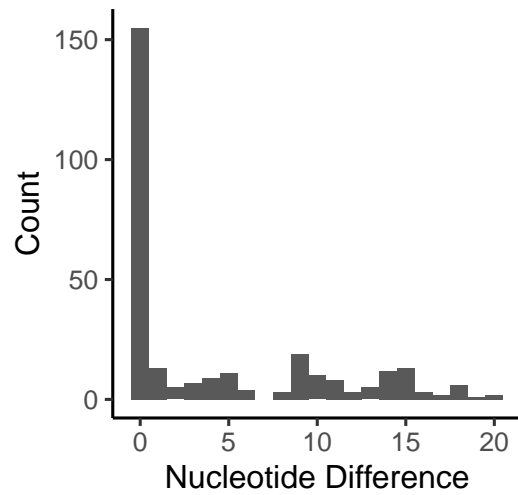
IGHV3-7*03

312 sequences assigned
80 (25.6%) exact matches, in which:
42 unique CDR3
4 unique J



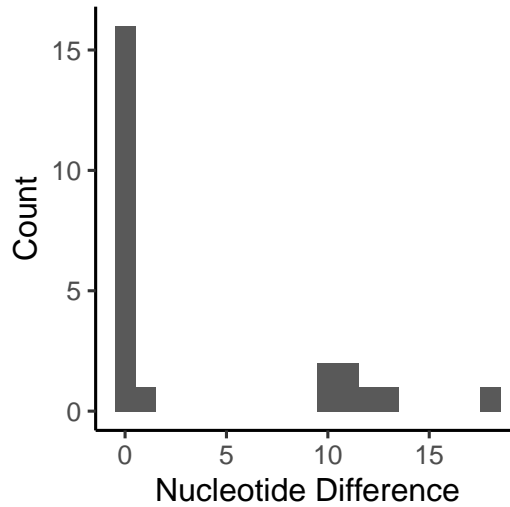
IGHV3-9*01

323 sequences assigned
155 (48%) exact matches, in which:
90 unique CDR3
6 unique J



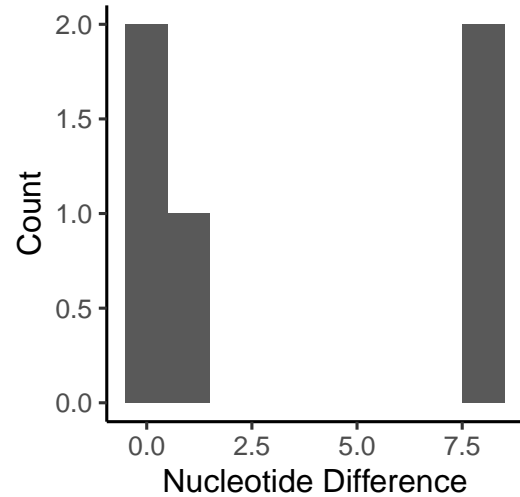
IGHV3-13*01

24 sequences assigned
16 (66.7%) exact matches, in which:
9 unique CDR3
5 unique J



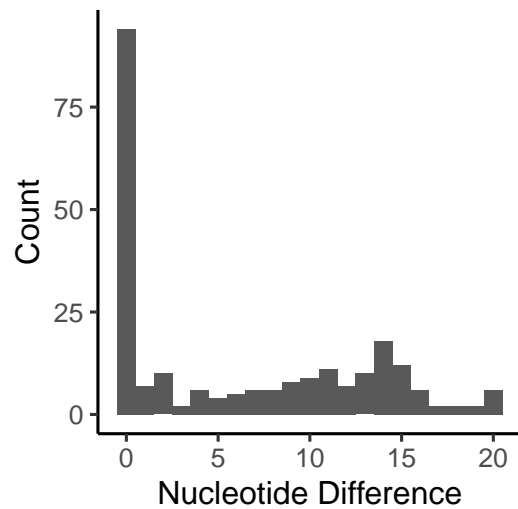
IGHV3-20*01_02

5 sequences assigned
2 (40%) exact matches, in which:
1 unique CDR3
1 unique J



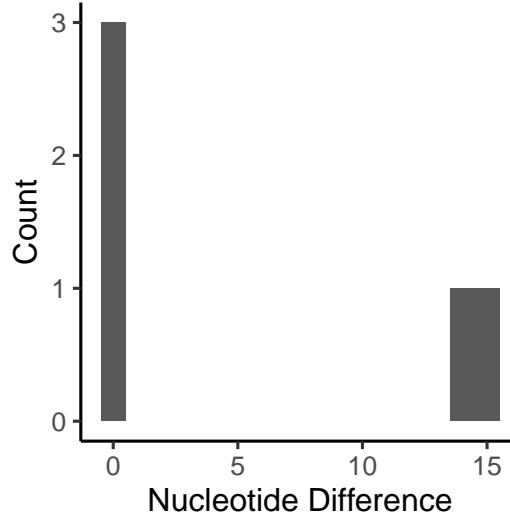
IGHV3-11*01

328 sequences assigned
94 (28.7%) exact matches, in which:
52 unique CDR3
6 unique J



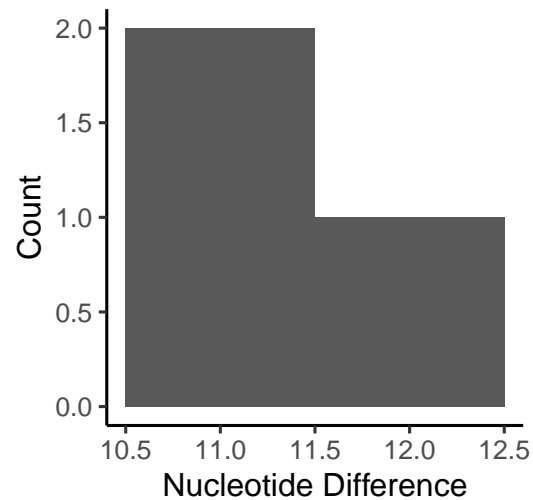
IGHV3-13*05

7 sequences assigned
3 (42.9%) exact matches, in which:
2 unique CDR3
2 unique J



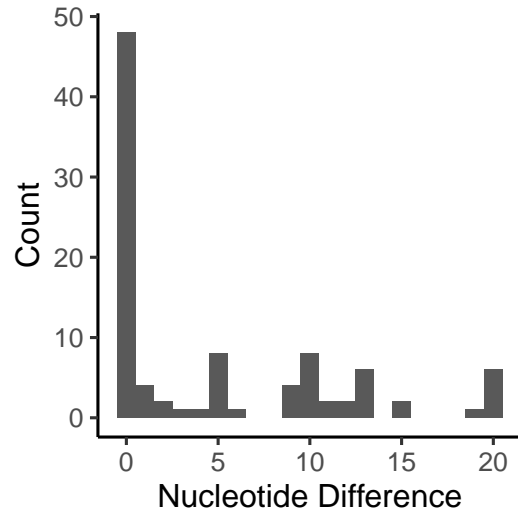
IGHV3-20*03_04

3 sequences assigned
No exact matches.



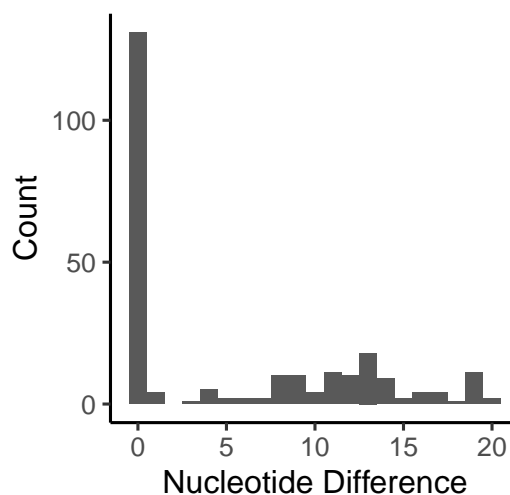
IGHV3-11*06

104 sequences assigned
48 (46.2%) exact matches, in which:
26 unique CDR3
5 unique J



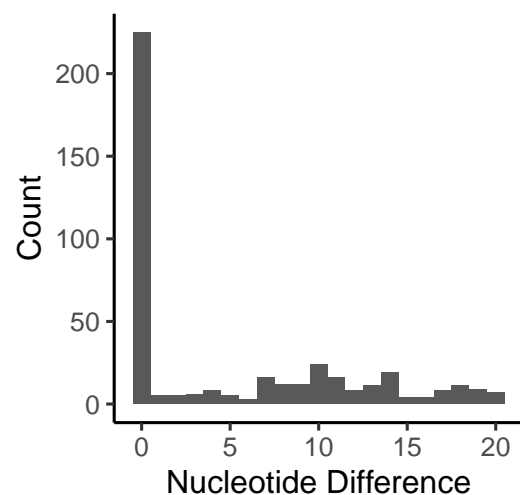
IGHV3-15*01_02

292 sequences assigned
131 (44.9%) exact matches, in which:
74 unique CDR3
5 unique J



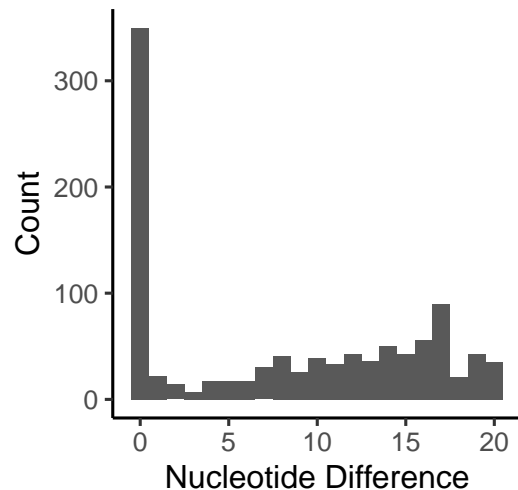
IGHV3-21*01_02

478 sequences assigned
225 (47.1%) exact matches, in which:
127 unique CDR3
6 unique J



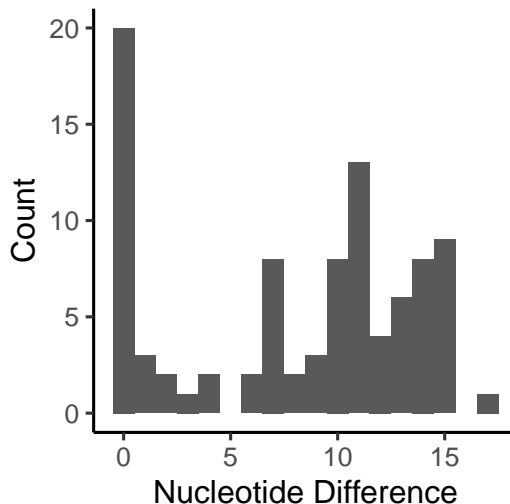
IGHV3-23*01_04

1809 sequences assigned
350 (19.3%) exact matches, in which:
203 unique CDR3
6 unique J



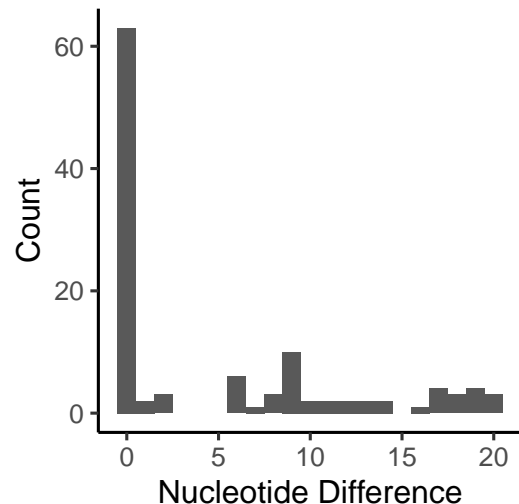
IGHV3-43*01

105 sequences assigned
20 (19%) exact matches, in which:
11 unique CDR3
4 unique J



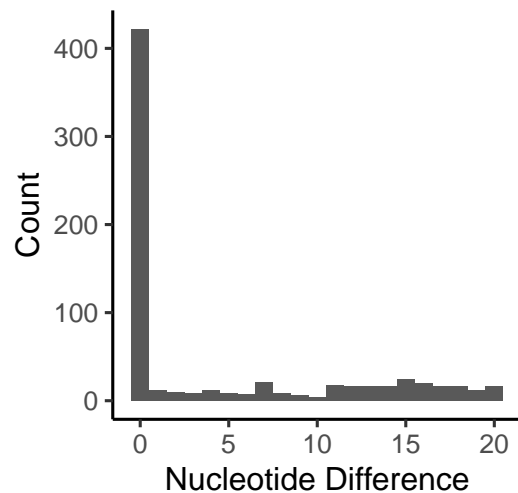
IGHV3-49*03_05

123 sequences assigned
63 (51.2%) exact matches, in which:
35 unique CDR3
4 unique J



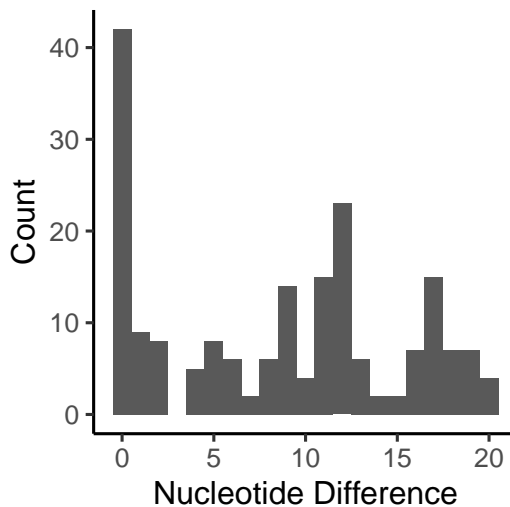
IGHV3-30-3*01

803 sequences assigned
422 (52.6%) exact matches, in which:
237 unique CDR3
6 unique J



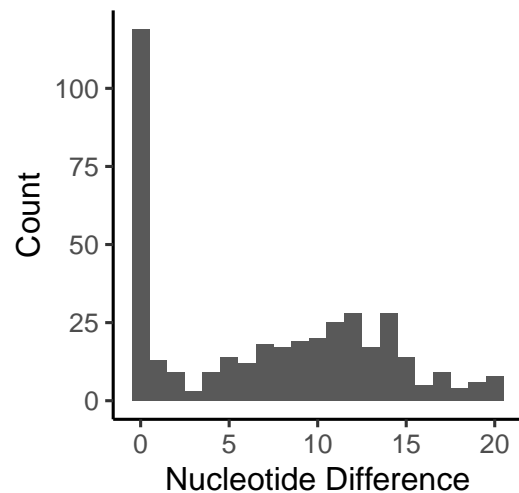
IGHV3-48*01

213 sequences assigned
42 (19.7%) exact matches, in which:
21 unique CDR3
6 unique J



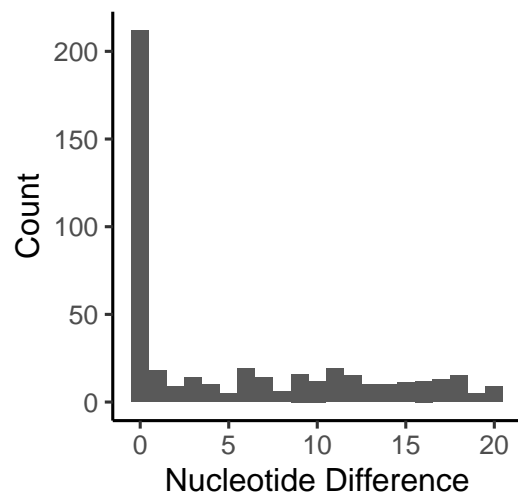
IGHV3-53*01_02

467 sequences assigned
119 (25.5%) exact matches, in which:
65 unique CDR3
5 unique J



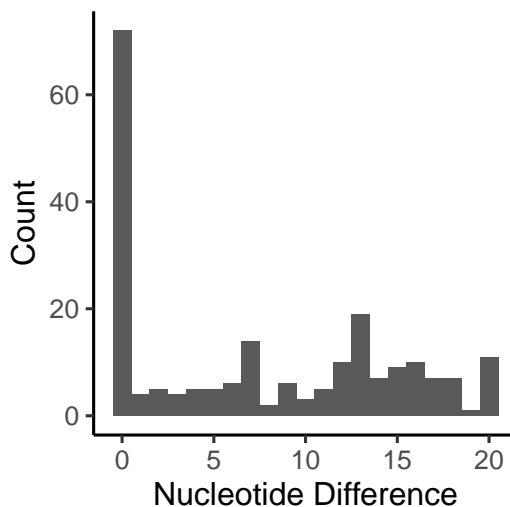
IGHV3-33*01

537 sequences assigned
212 (39.5%) exact matches, in which:
126 unique CDR3
6 unique J



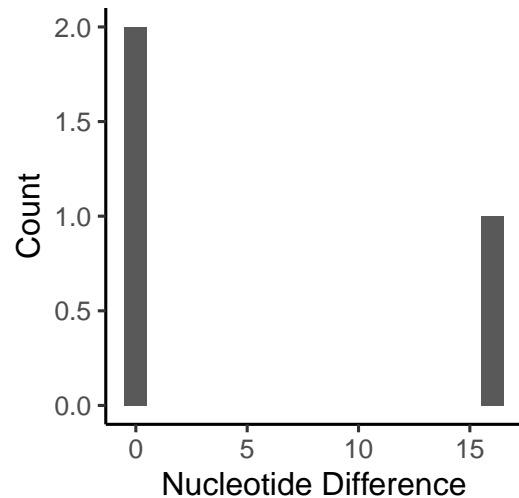
IGHV3-48*02

266 sequences assigned
72 (27.1%) exact matches, in which:
39 unique CDR3
4 unique J



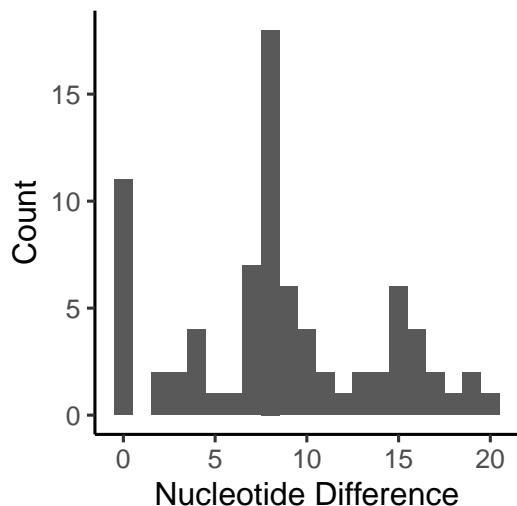
IGHV3-64*02_07

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



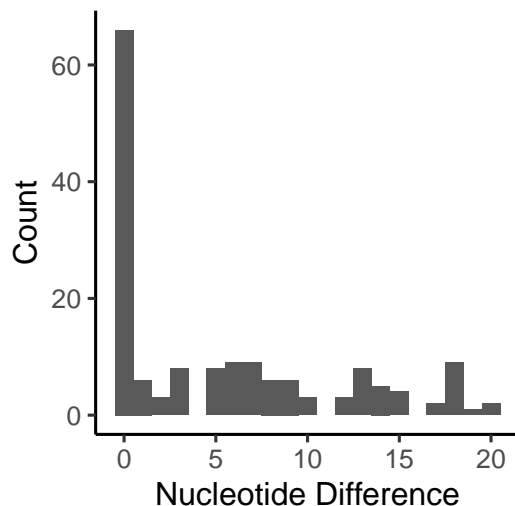
IGHV3-72*01

82 sequences assigned
11 (13.4%) exact matches, in which:
7 unique CDR3
3 unique J



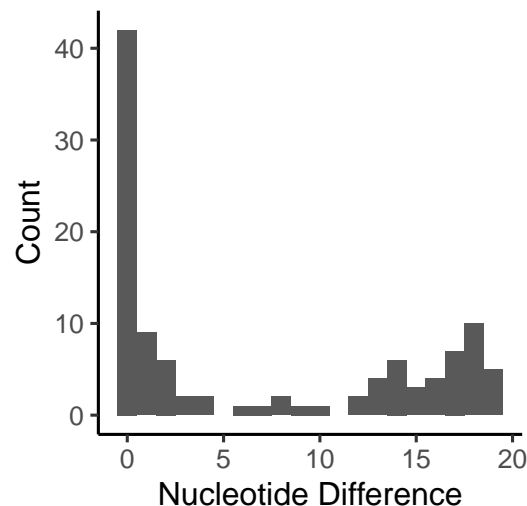
IGHV3-74*01_02

179 sequences assigned
66 (36.9%) exact matches, in which:
36 unique CDR3
4 unique J



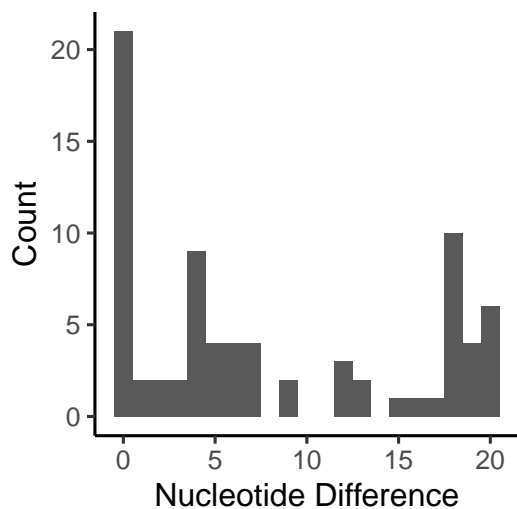
IGHV4-4*02_03

168 sequences assigned
42 (25%) exact matches, in which:
41 unique CDR3
6 unique J



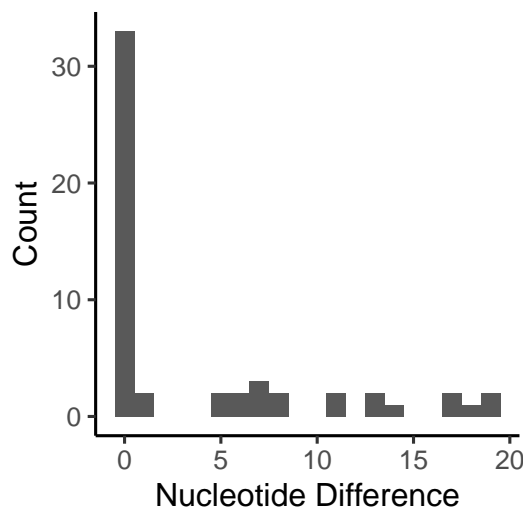
IGHV3-73*01_02

84 sequences assigned
21 (25%) exact matches, in which:
11 unique CDR3
3 unique J



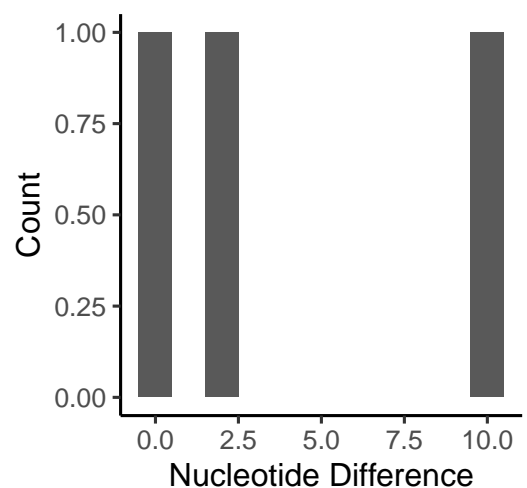
IGHV3-64D*06

73 sequences assigned
33 (45.2%) exact matches, in which:
15 unique CDR3
4 unique J



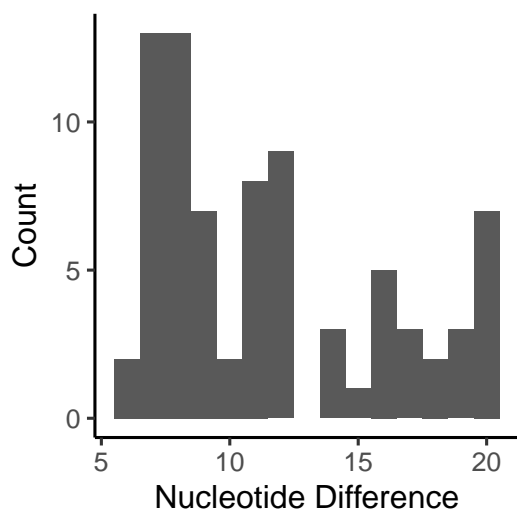
IGHV4-28*01_07

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



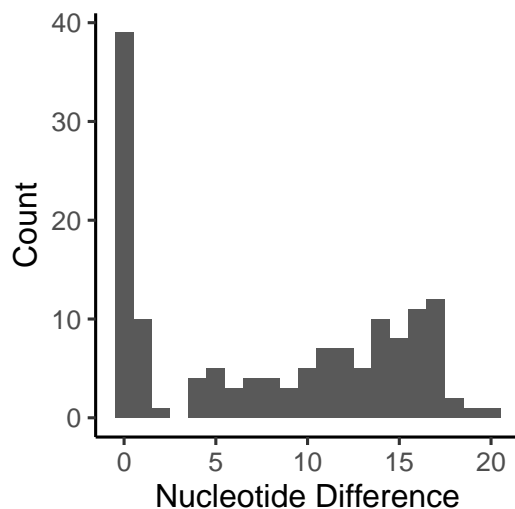
IGHV3-74*03

100 sequences assigned
No exact matches.



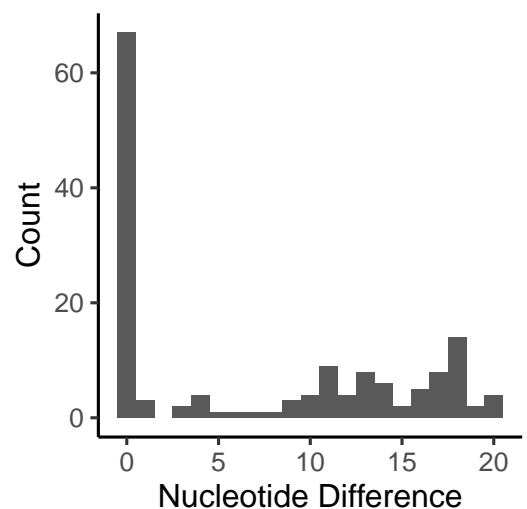
IGHV4-4*07

154 sequences assigned
39 (25.3%) exact matches, in which:
36 unique CDR3
5 unique J



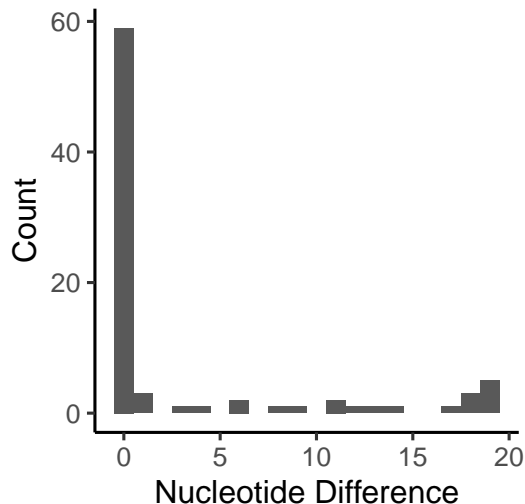
IGHV4-30-4*01

246 sequences assigned
67 (27.2%) exact matches, in which:
66 unique CDR3
5 unique J



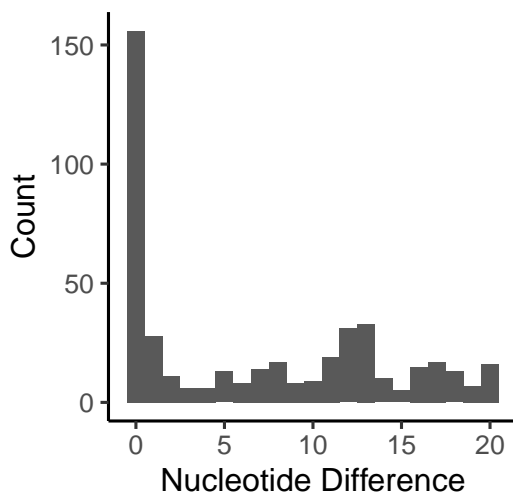
IGHV4-30-2*01

95 sequences assigned
59 (62.1%) exact matches, in which:
57 unique CDR3
5 unique J



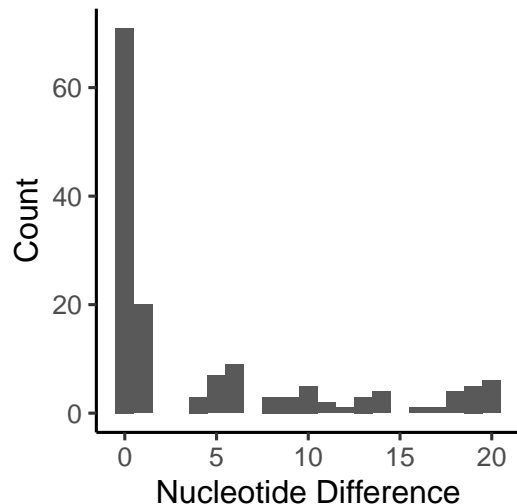
IGHV4-39*02_C258G

565 sequences assigned
156 (27.6%) exact matches, in which:
151 unique CDR3
6 unique J



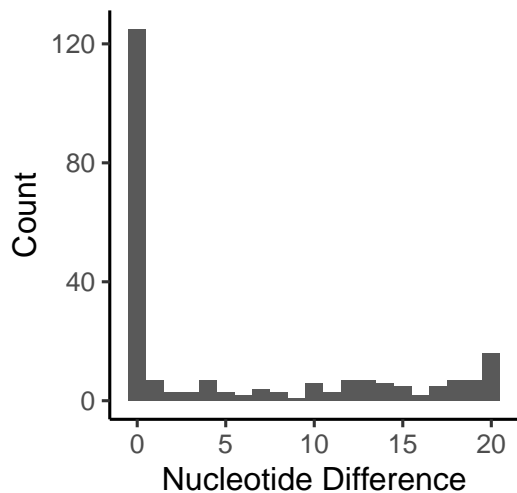
IGHV5-10-1*01_03

160 sequences assigned
71 (44.4%) exact matches, in which:
69 unique CDR3
5 unique J



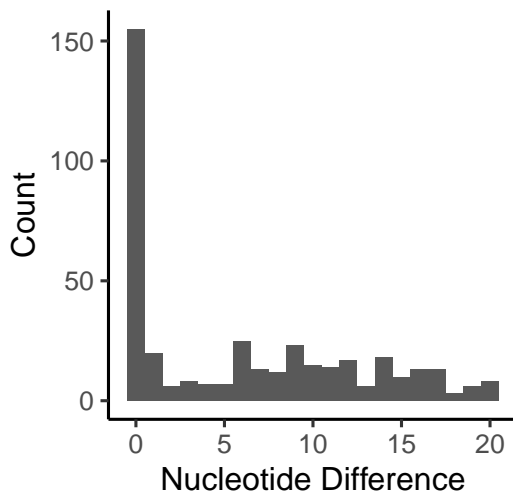
IGHV4-31*02

266 sequences assigned
125 (47%) exact matches, in which:
123 unique CDR3
5 unique J



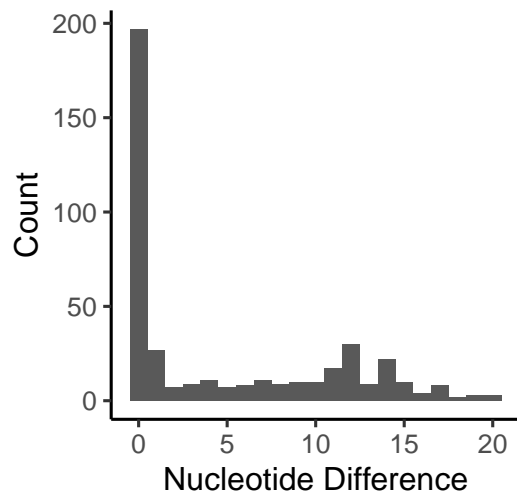
IGHV4-59*02_G88A

604 sequences assigned
155 (25.7%) exact matches, in which:
149 unique CDR3
6 unique J



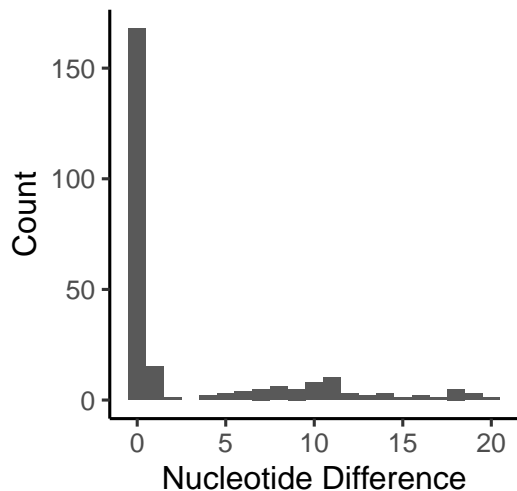
IGHV5-51*07_A128G

474 sequences assigned
197 (41.6%) exact matches, in which:
187 unique CDR3
6 unique J



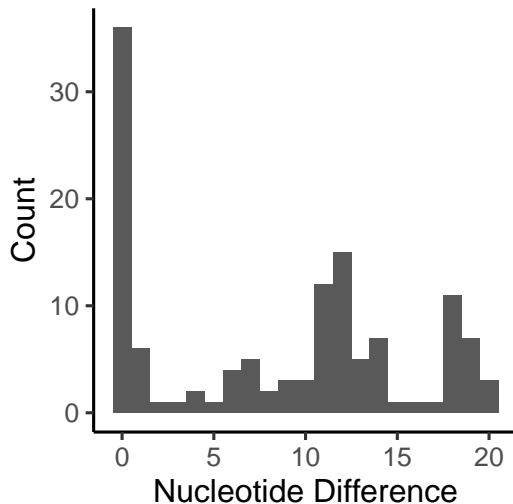
IGHV4-34*01_02

281 sequences assigned
168 (59.8%) exact matches, in which:
155 unique CDR3
5 unique J



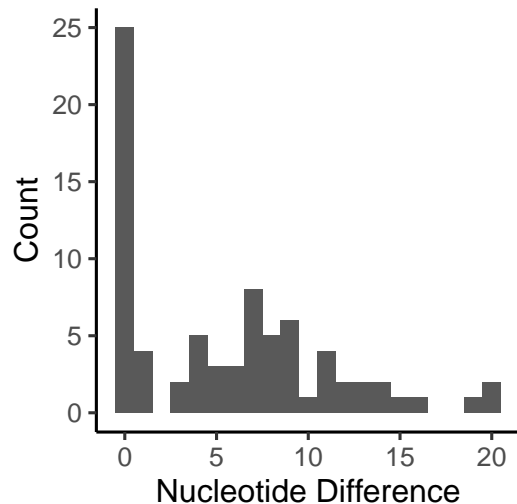
IGHV4-61*01

198 sequences assigned
36 (18.2%) exact matches, in which:
33 unique CDR3
5 unique J



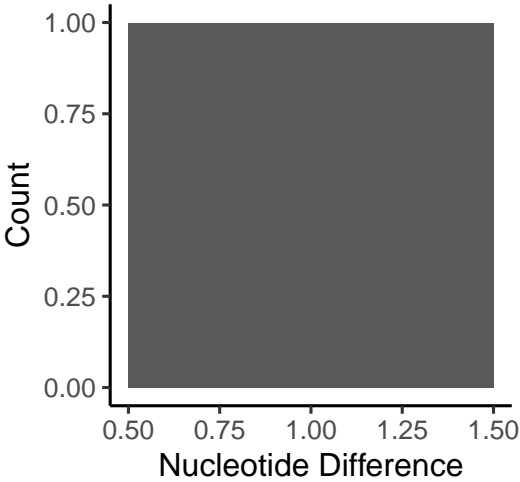
IGHV6-1*01_02

92 sequences assigned
25 (27.2%) exact matches, in which:
25 unique CDR3
5 unique J



IGHV7-4-1*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.