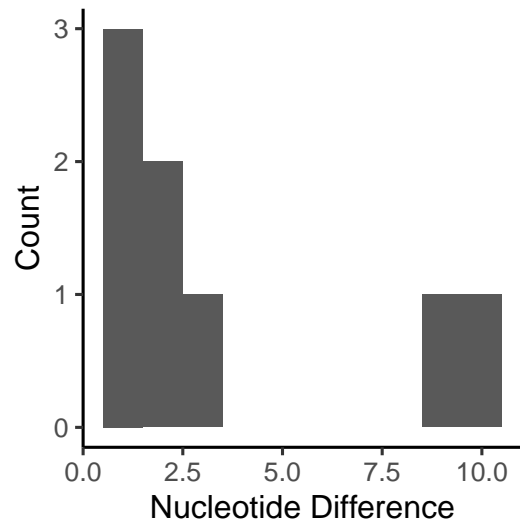


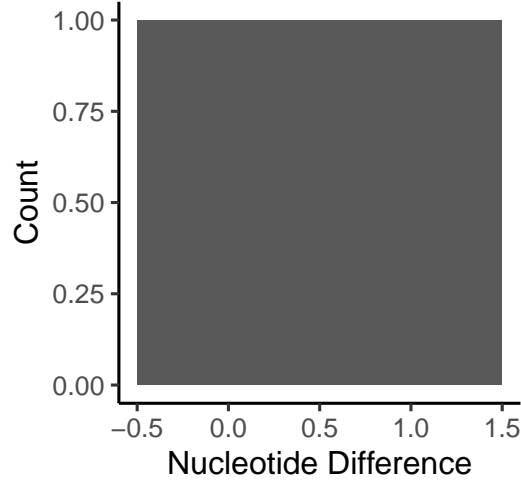
IGHV1-2*02

8 sequences assigned
No exact matches.



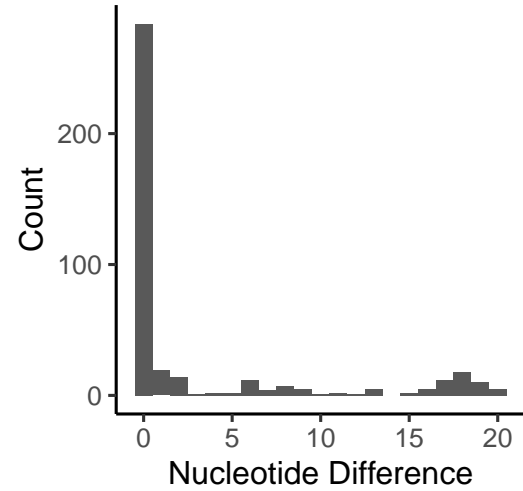
IGHV1-2*06

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



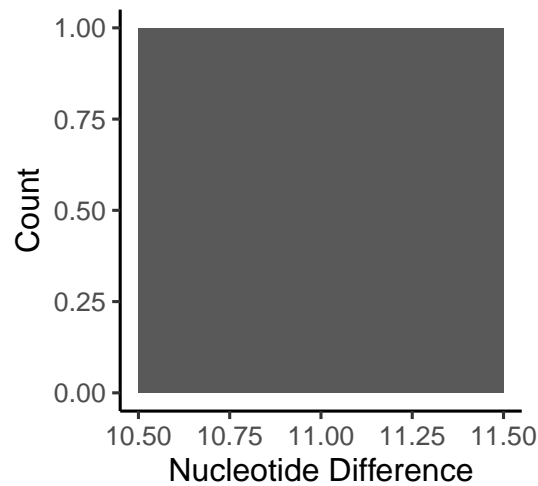
IGHV1-18*01

502 sequences assigned
284 (56.6%) exact matches, in which:
280 unique CDR3
6 unique J



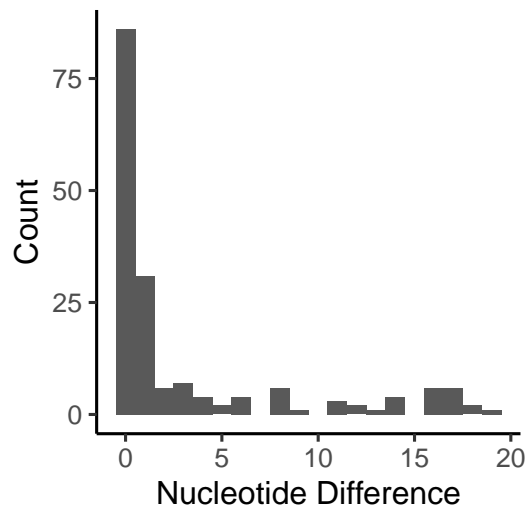
IGHV1-2*04

1 sequences assigned
No exact matches.



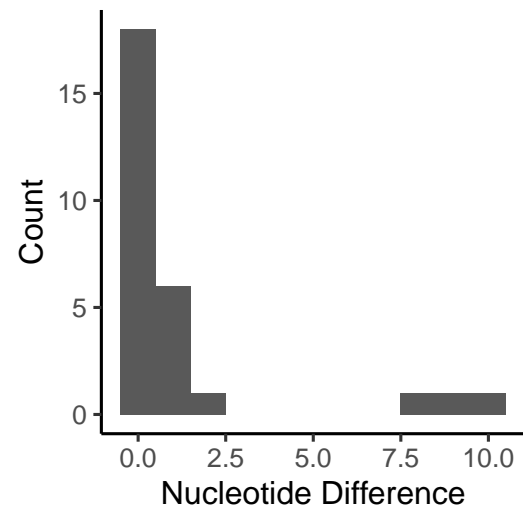
IGHV1-3*01_05

470 sequences assigned
86 (18.3%) exact matches, in which:
78 unique CDR3
5 unique J



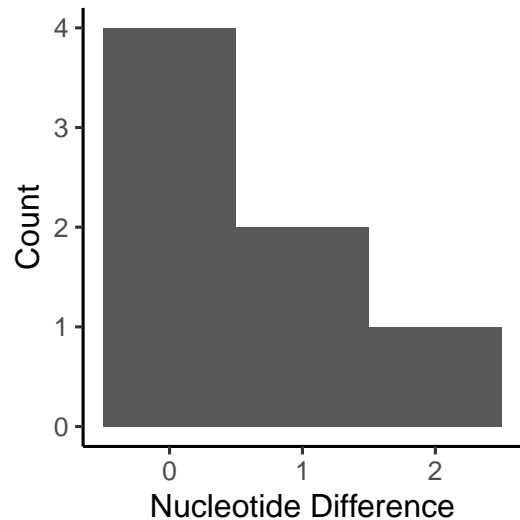
IGHV1-24*01

29 sequences assigned
18 (62.1%) exact matches, in which:
18 unique CDR3
3 unique J



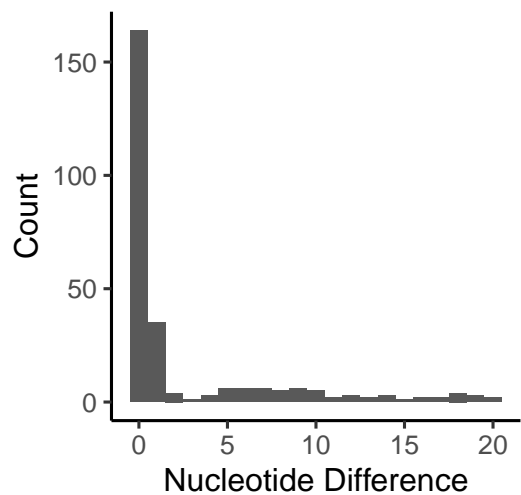
IGHV1-2*05

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



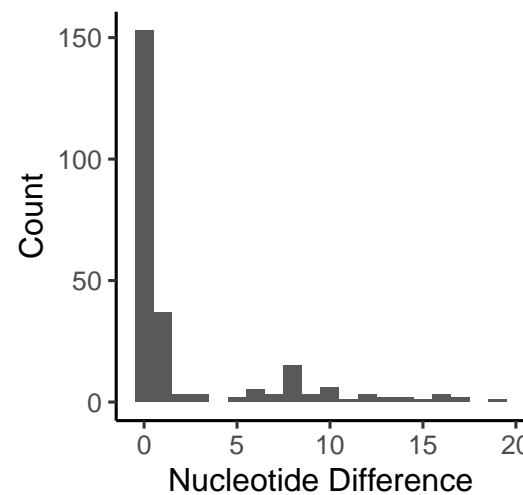
IGHV1-8*01

419 sequences assigned
164 (39.1%) exact matches, in which:
157 unique CDR3
6 unique J



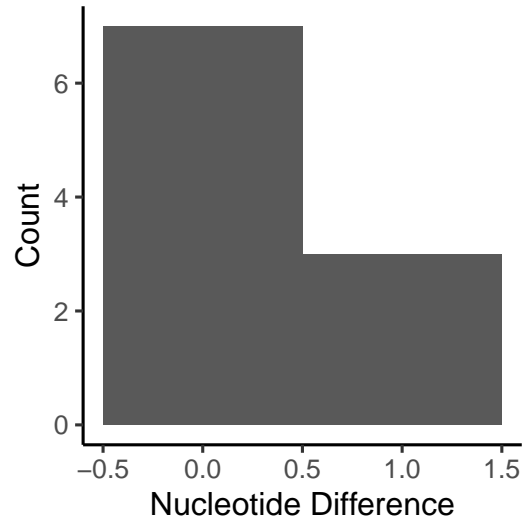
IGHV1-46*01

271 sequences assigned
153 (56.5%) exact matches, in which:
149 unique CDR3
6 unique J



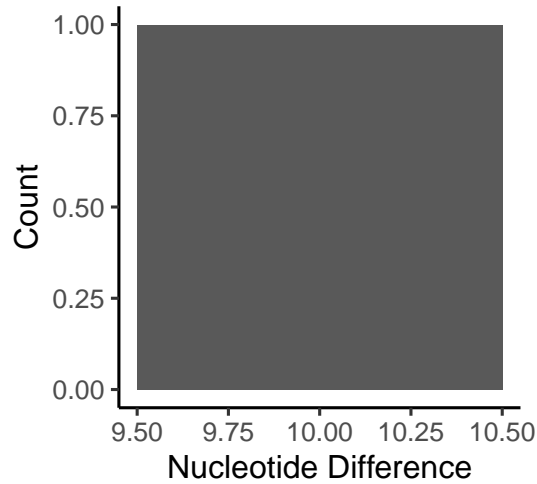
IGHV1-58*01_03

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



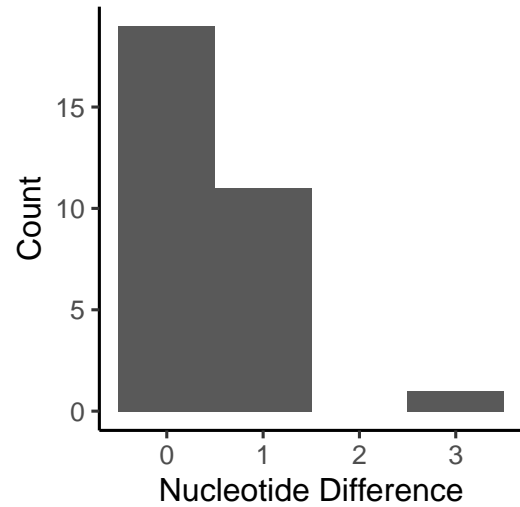
IGHV1-NL1*01

1 sequences assigned
No exact matches.



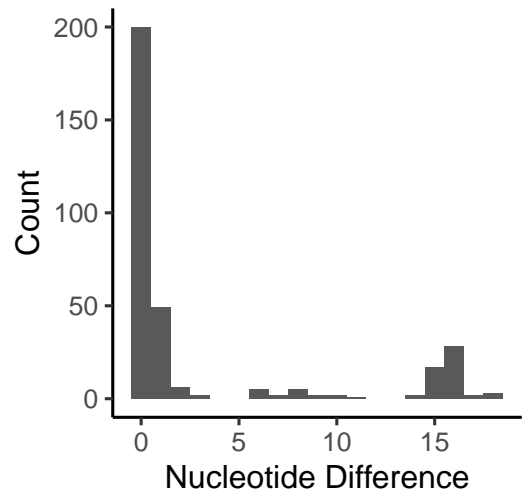
IGHV2-70*01

31 sequences assigned
19 (61.3%) exact matches, in which:
16 unique CDR3
3 unique J



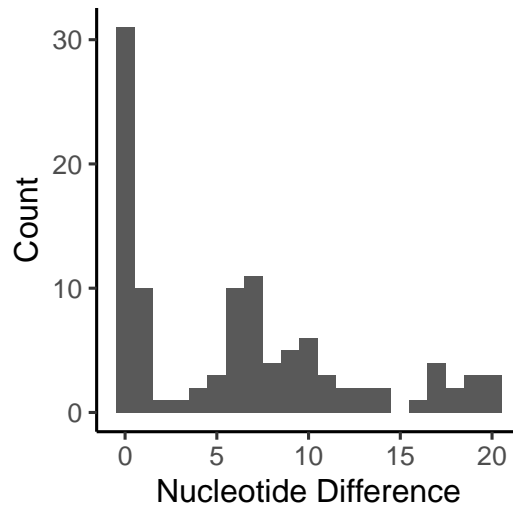
IGHV1-69*01_12_13

366 sequences assigned
200 (54.6%) exact matches, in which:
199 unique CDR3
5 unique J



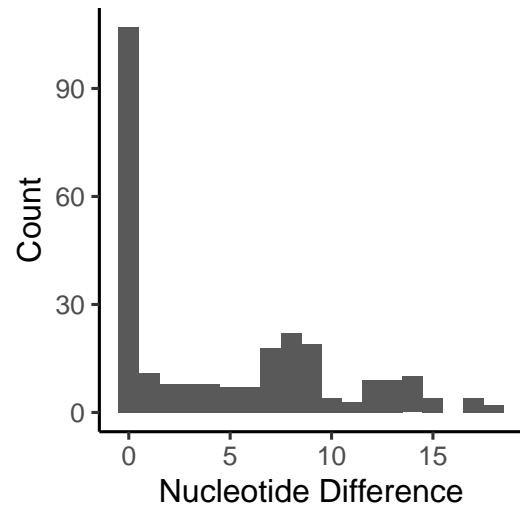
IGHV2-5*02

129 sequences assigned
31 (24%) exact matches, in which:
29 unique CDR3
4 unique J



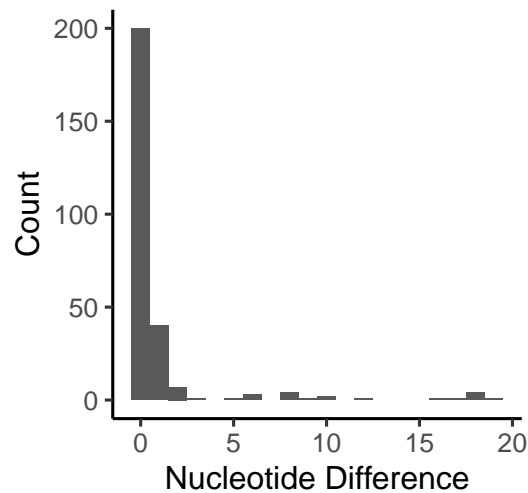
IGHV3-7*01

270 sequences assigned
107 (39.6%) exact matches, in which:
66 unique CDR3
5 unique J



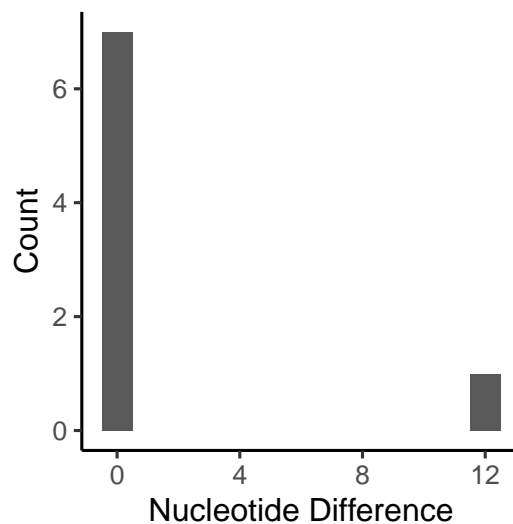
IGHV1-69*04_09_A244C

347 sequences assigned
200 (57.6%) exact matches, in which:
197 unique CDR3
6 unique J



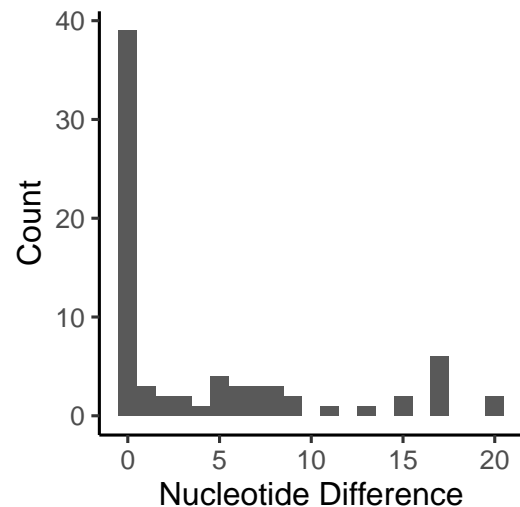
IGHV2-26*01

8 sequences assigned
7 (87.5%) exact matches, in which:
6 unique CDR3
2 unique J



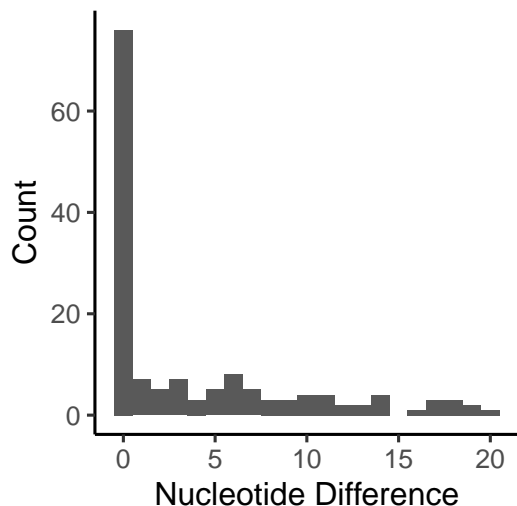
IGHV3-9*01

104 sequences assigned
39 (37.5%) exact matches, in which:
24 unique CDR3
4 unique J



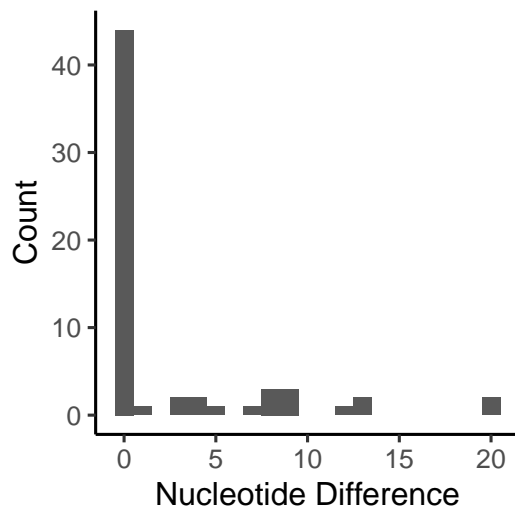
IGHV3-9*01_A104G

174 sequences assigned
76 (43.7%) exact matches, in which:
45 unique CDR3
4 unique J



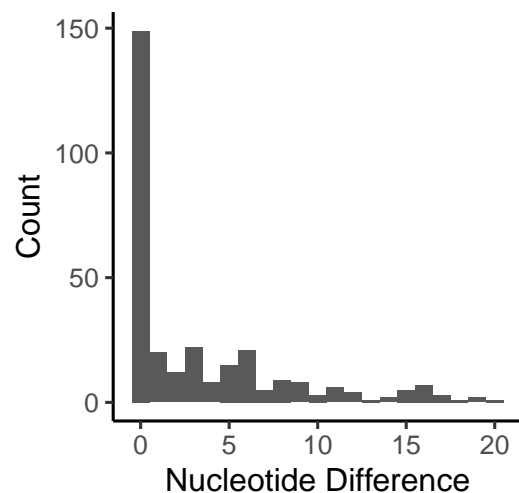
IGHV3-15*01_02

70 sequences assigned
44 (62.9%) exact matches, in which:
26 unique CDR3
5 unique J



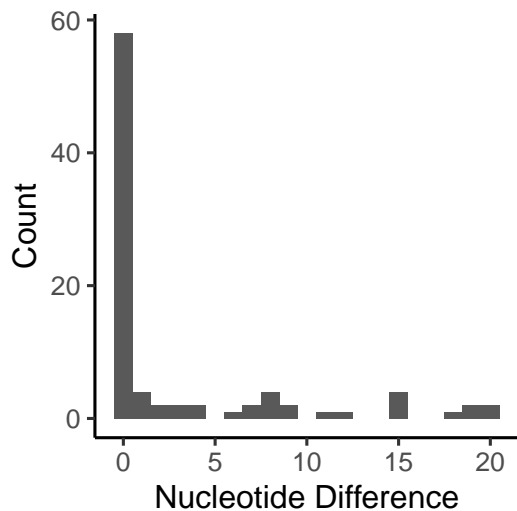
IGHV3-21*01_02

324 sequences assigned
149 (46%) exact matches, in which:
89 unique CDR3
5 unique J



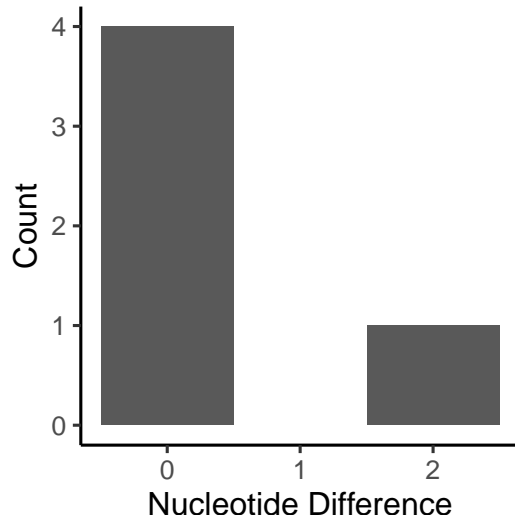
IGHV3-11*01

111 sequences assigned
58 (52.3%) exact matches, in which:
37 unique CDR3
5 unique J



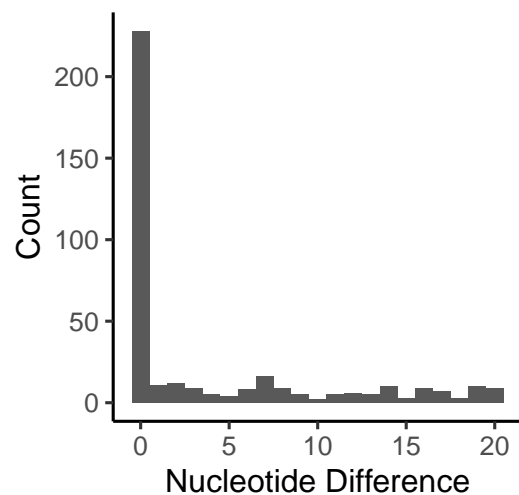
IGHV3-20*01_02

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



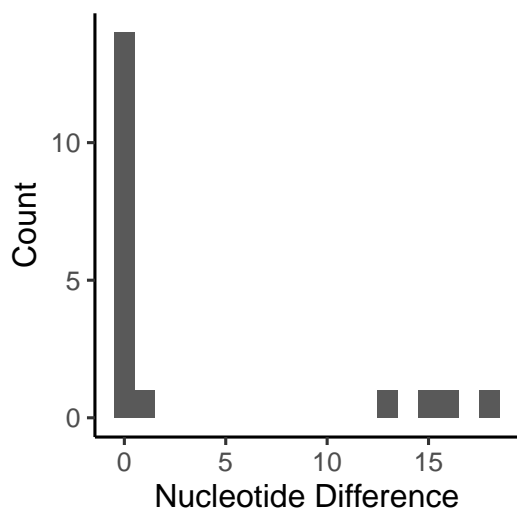
IGHV3-23*01_04

476 sequences assigned
228 (47.9%) exact matches, in which:
155 unique CDR3
6 unique J



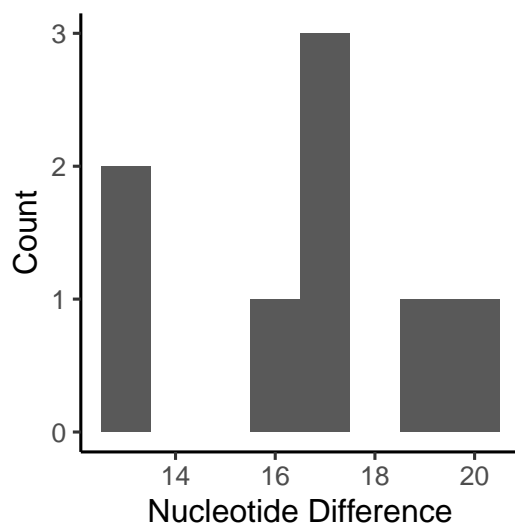
IGHV3-13*01

21 sequences assigned
14 (66.7%) exact matches, in which:
8 unique CDR3
3 unique J



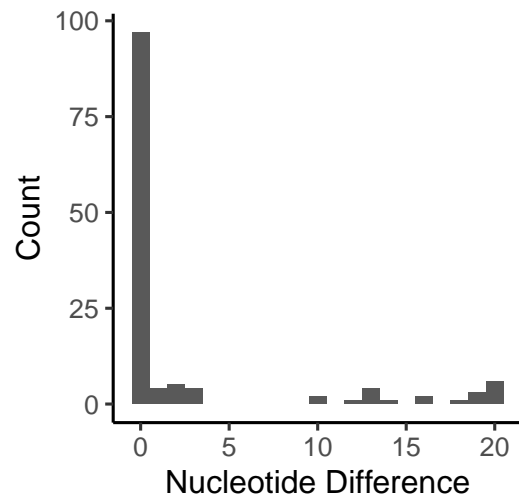
IGHV3-20*03_04

10 sequences assigned
No exact matches.



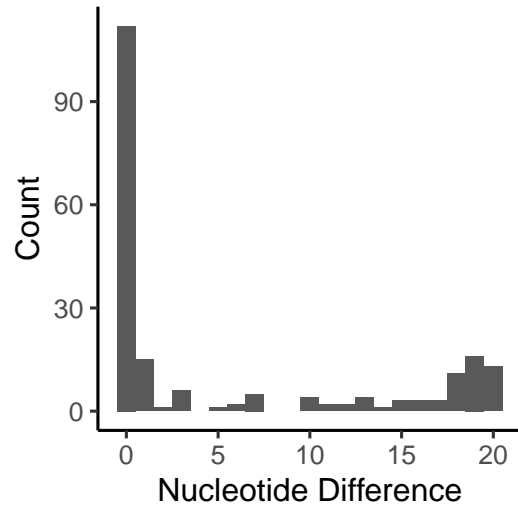
IGHV3-30-3*01

149 sequences assigned
97 (65.1%) exact matches, in which:
56 unique CDR3
5 unique J



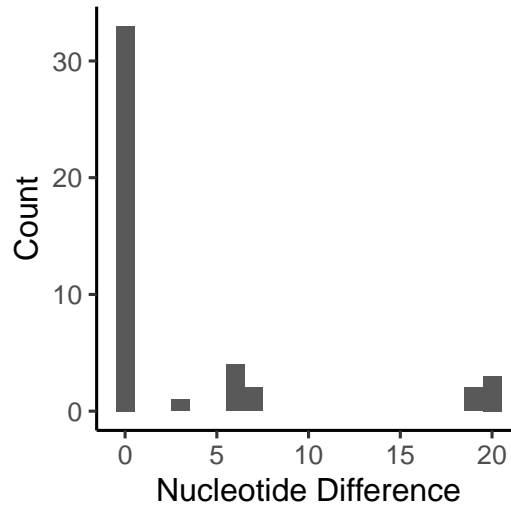
IGHV3-33*01

250 sequences assigned
112 (44.8%) exact matches, in which:
71 unique CDR3
6 unique J



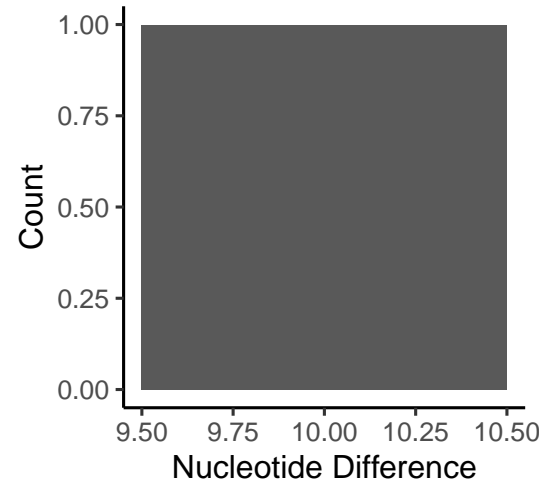
IGHV3-49*03_05

54 sequences assigned
33 (61.1%) exact matches, in which:
20 unique CDR3
4 unique J



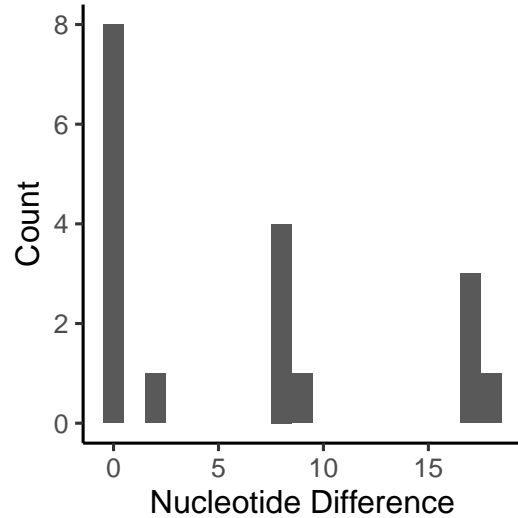
IGHV3-69-1*01

2 sequences assigned
No exact matches.



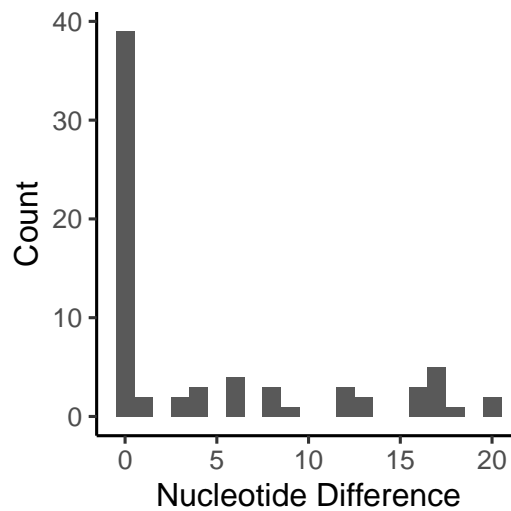
IGHV3-43*01

23 sequences assigned
8 (34.8%) exact matches, in which:
5 unique CDR3
3 unique J



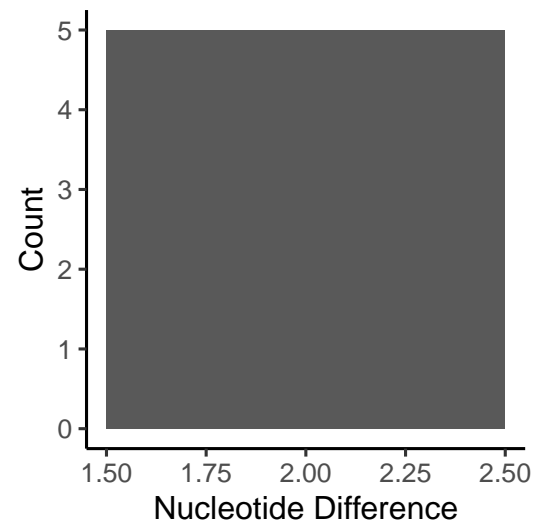
IGHV3-53*01_02

83 sequences assigned
39 (47%) exact matches, in which:
24 unique CDR3
4 unique J



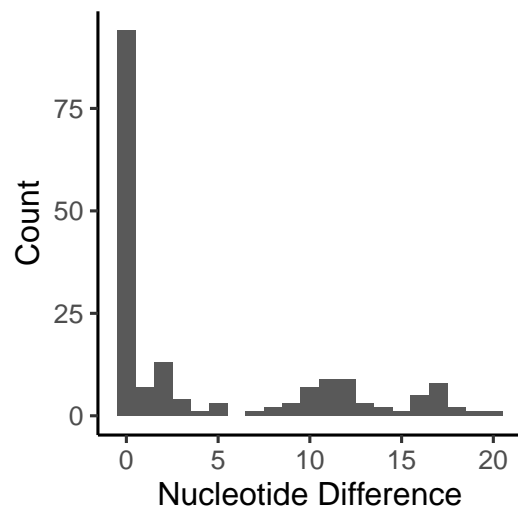
IGHV3-69-1*02

5 sequences assigned
No exact matches.



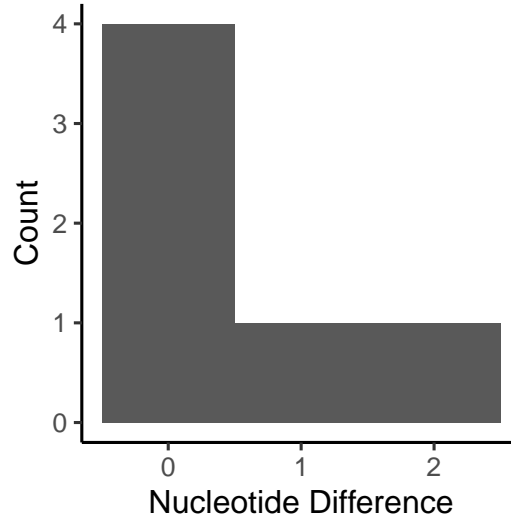
IGHV3-48*02

193 sequences assigned
94 (48.7%) exact matches, in which:
51 unique CDR3
5 unique J



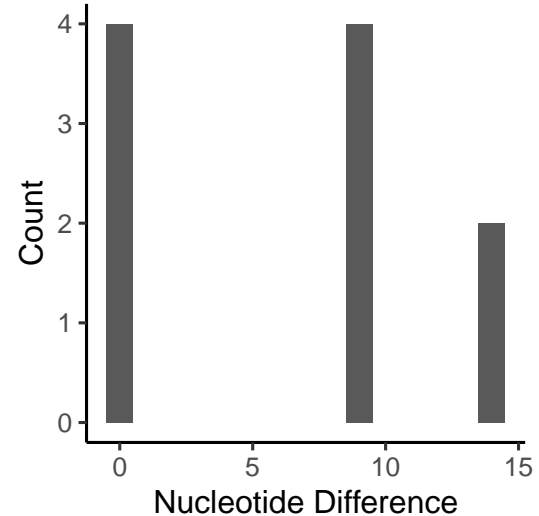
IGHV3-66*03

6 sequences assigned
4 (66.7%) exact matches, in which:
3 unique CDR3
1 unique J



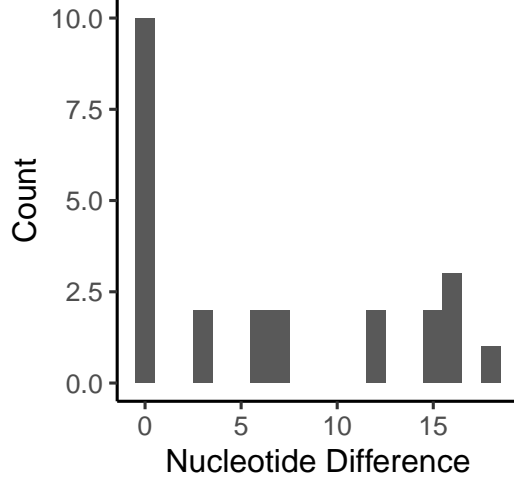
IGHV3-72*01

15 sequences assigned
4 (26.7%) exact matches, in which:
2 unique CDR3
1 unique J



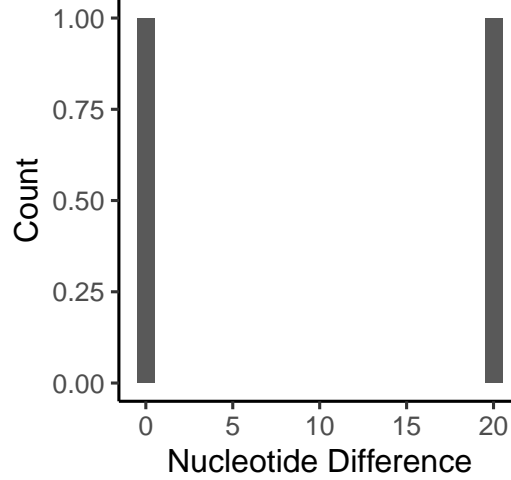
IGHV3-73*01_02

30 sequences assigned
10 (33.3%) exact matches, in which:
7 unique CDR3
2 unique J



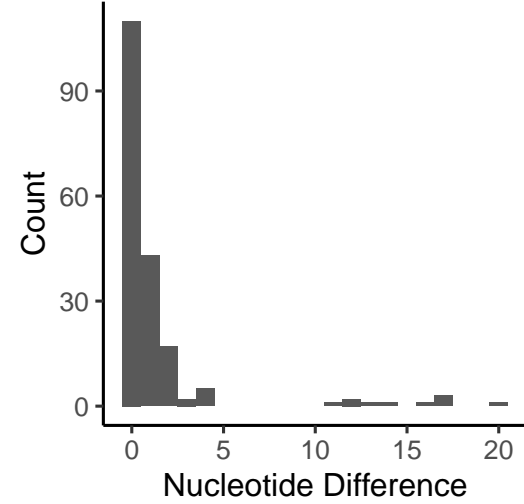
IGHV4-28*01_07

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



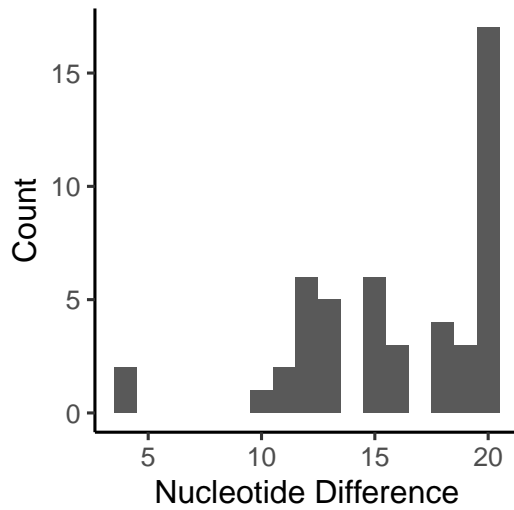
IGHV4-34*01_02

217 sequences assigned
110 (50.7%) exact matches, in which:
104 unique CDR3
4 unique J



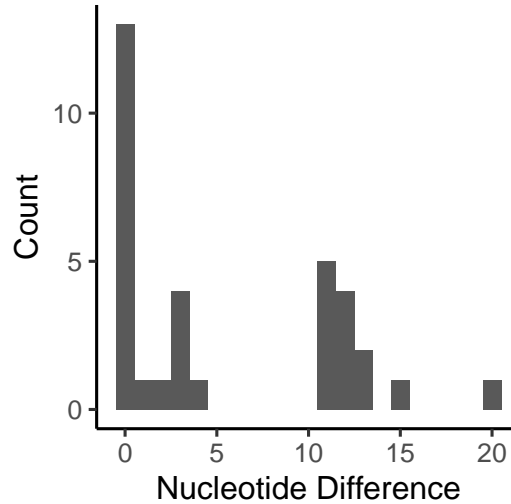
IGHV3-74*03

73 sequences assigned
No exact matches.



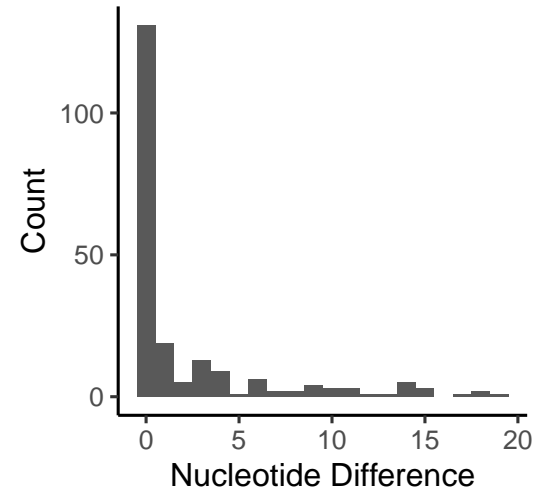
IGHV4-30-4*01

35 sequences assigned
13 (37.1%) exact matches, in which:
11 unique CDR3
4 unique J



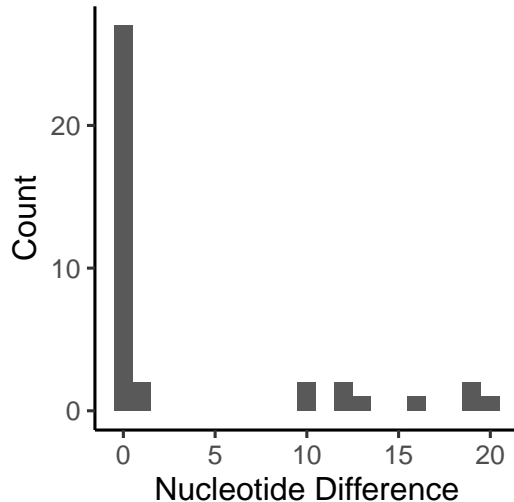
IGHV4-39*02_C258G

231 sequences assigned
131 (56.7%) exact matches, in which:
121 unique CDR3
6 unique J



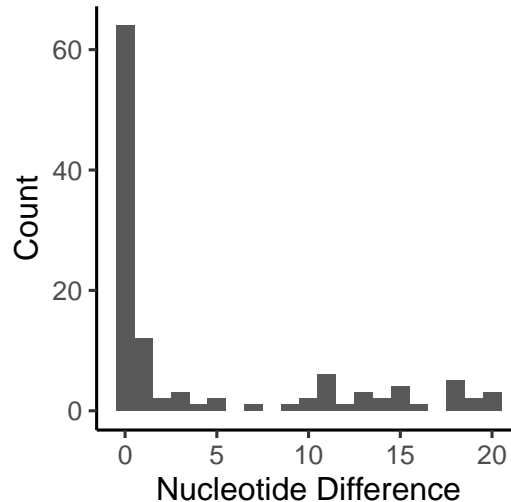
IGHV3-74*01_02

41 sequences assigned
27 (65.9%) exact matches, in which:
16 unique CDR3
4 unique J



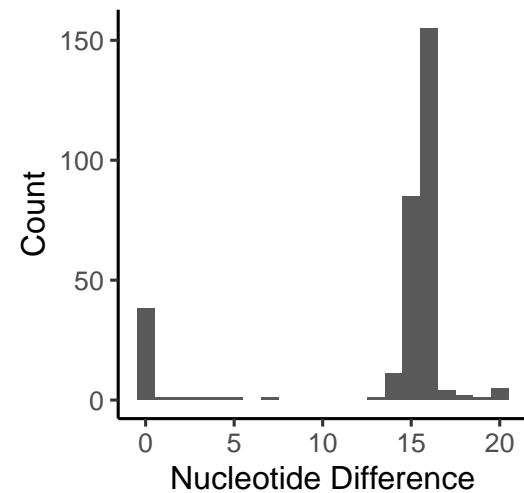
IGHV4-31*02

130 sequences assigned
64 (49.2%) exact matches, in which:
59 unique CDR3
5 unique J



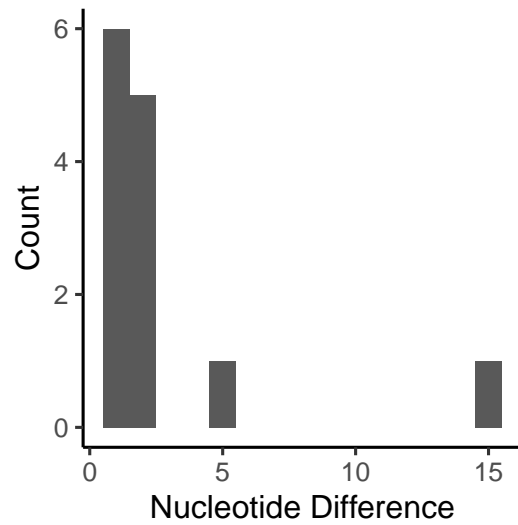
IGHV4-59*01_07

558 sequences assigned
38 (6.8%) exact matches, in which:
36 unique CDR3
5 unique J



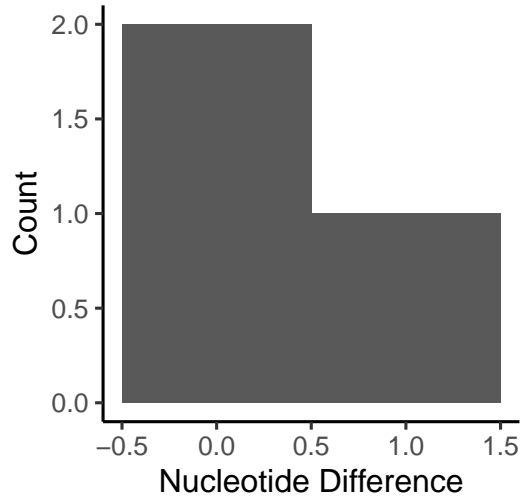
IGHV4-59*12

30 sequences assigned
No exact matches.



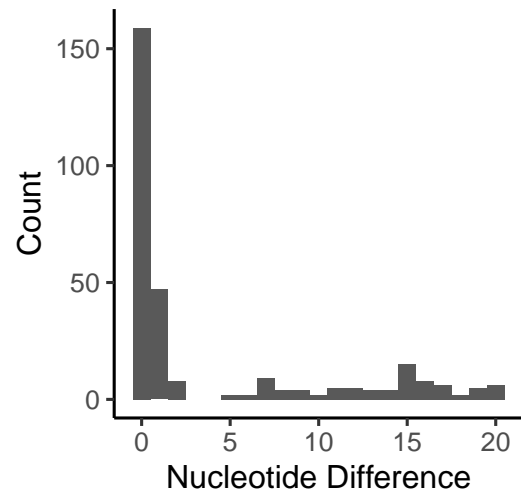
IGHV5-10-1*01_03

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



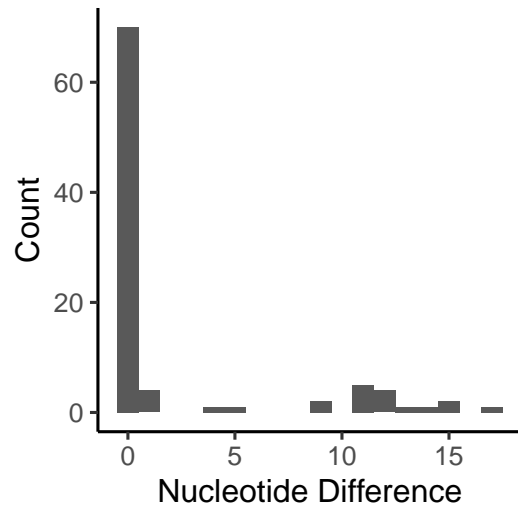
IGHV7-4-1*02

389 sequences assigned
159 (40.9%) exact matches, in which:
156 unique CDR3
6 unique J



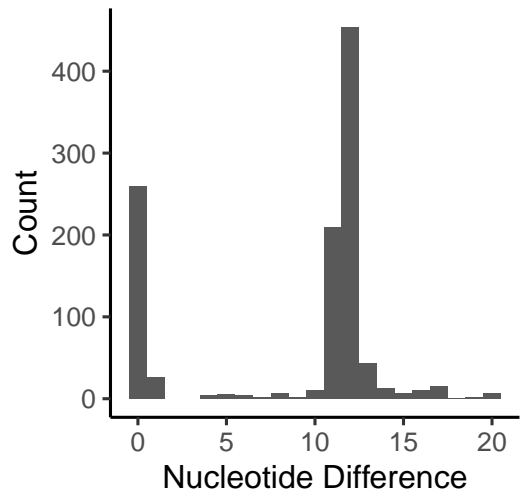
IGHV4-59*13

104 sequences assigned
70 (67.3%) exact matches, in which:
68 unique CDR3
5 unique J



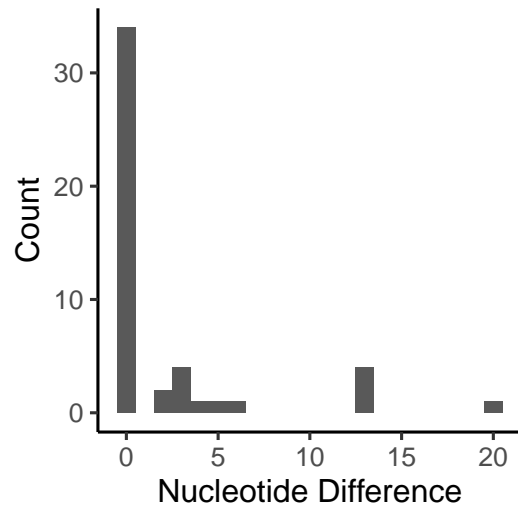
IGHV5-51*07_A128G

1124 sequences assigned
259 (23%) exact matches, in which:
223 unique CDR3
6 unique J



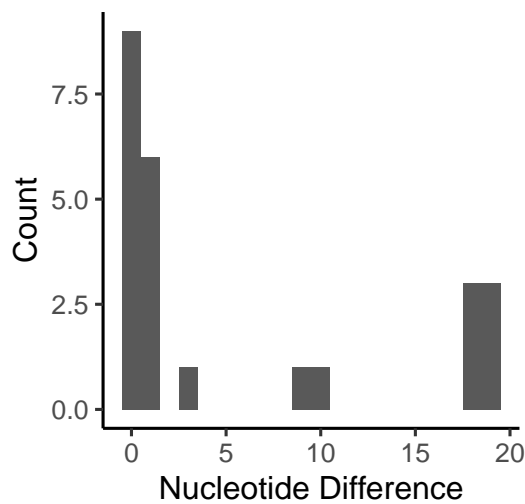
IGHV4-61*01

55 sequences assigned
34 (61.8%) exact matches, in which:
34 unique CDR3
5 unique J



IGHV6-1*01_02

24 sequences assigned
9 (37.5%) exact matches, in which:
9 unique CDR3
3 unique J





Warning – no inferred sequences found.