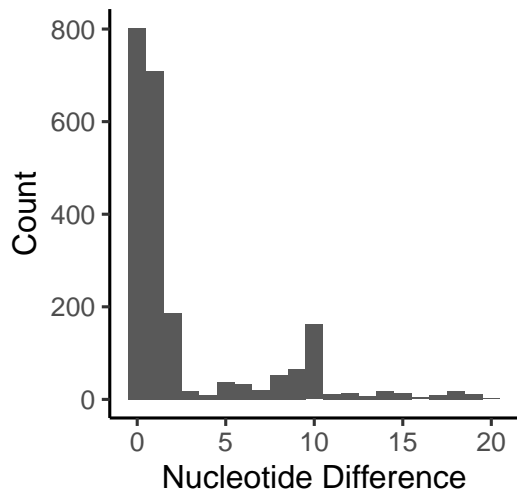


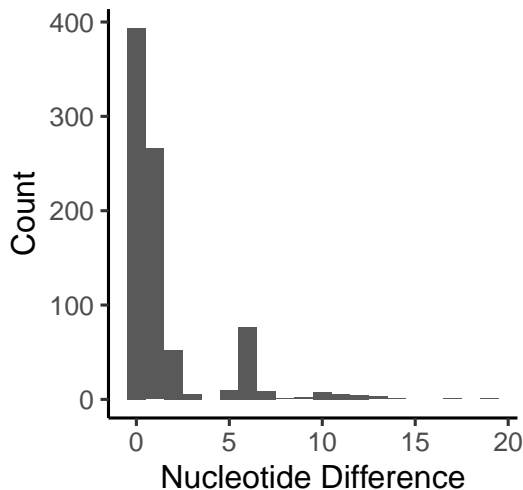
IGHV1-2*02

2216 sequences assigned
803 (36.2%) exact matches, in which:
623 unique CDR3
6 unique J



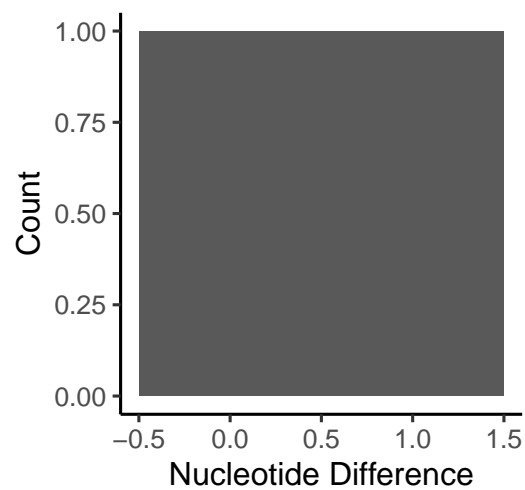
IGHV1-18*01

847 sequences assigned
394 (46.5%) exact matches, in which:
340 unique CDR3
6 unique J



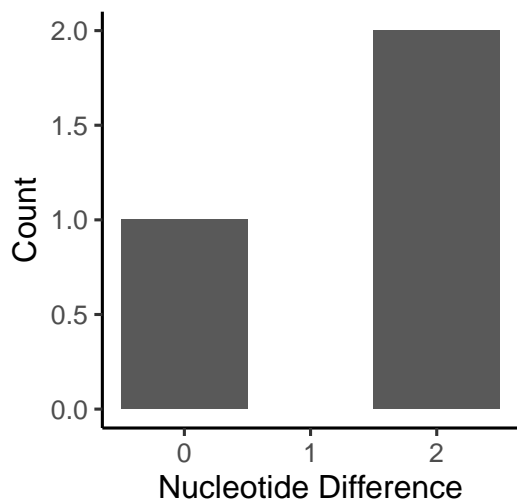
IGHV1-45*02

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



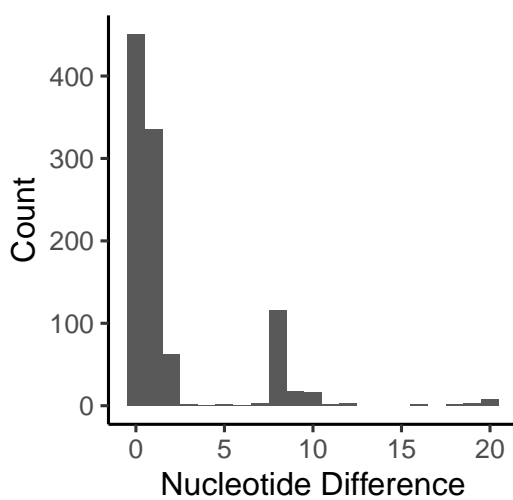
IGHV1-3*02

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



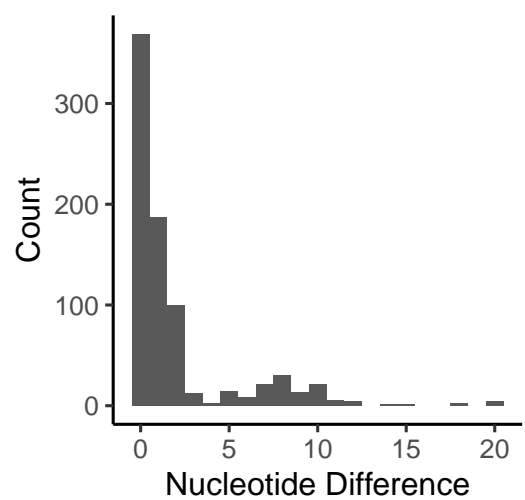
IGHV1-18*04

1030 sequences assigned
451 (43.8%) exact matches, in which:
360 unique CDR3
5 unique J



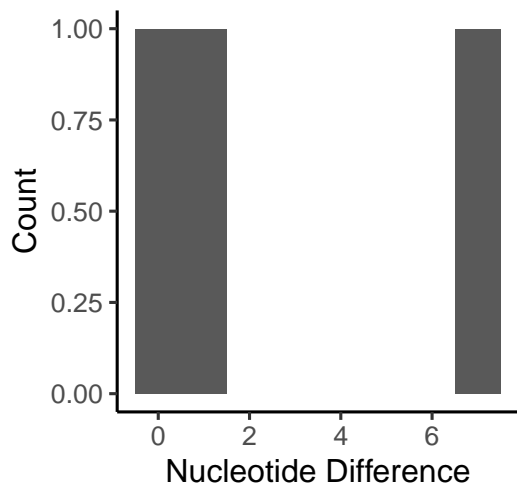
IGHV1-46*01

807 sequences assigned
369 (45.7%) exact matches, in which:
324 unique CDR3
6 unique J



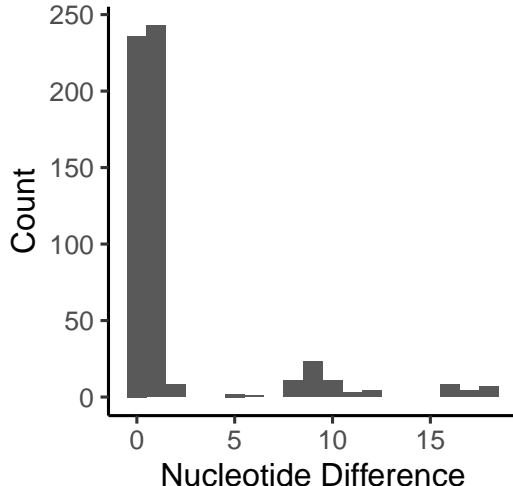
IGHV1-8*01

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



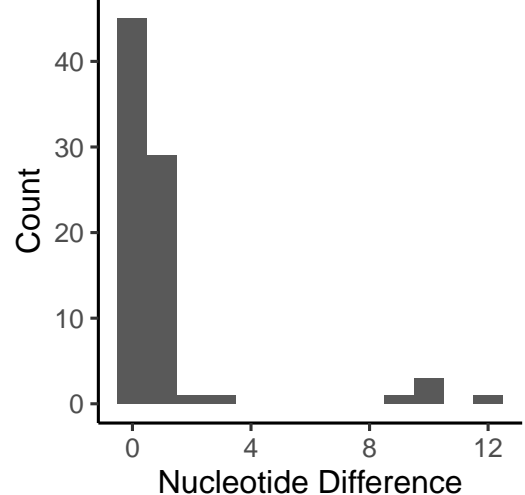
IGHV1-24*01

562 sequences assigned
236 (42%) exact matches, in which:
180 unique CDR3
6 unique J



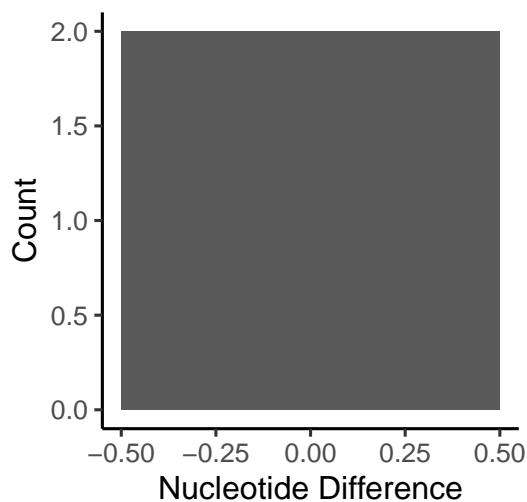
IGHV1-58*01_03

82 sequences assigned
45 (54.9%) exact matches, in which:
37 unique CDR3
4 unique J



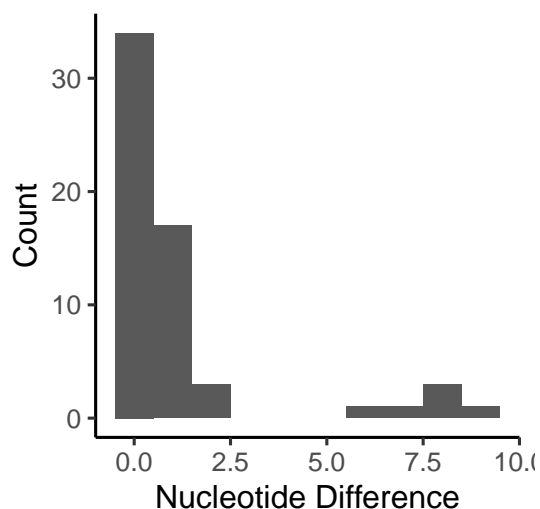
IGHV1-69-2*01

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



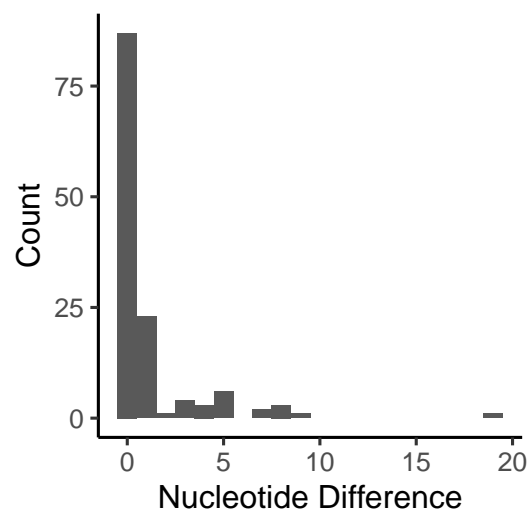
IGHV2-5*02

60 sequences assigned
34 (56.7%) exact matches, in which:
31 unique CDR3
5 unique J



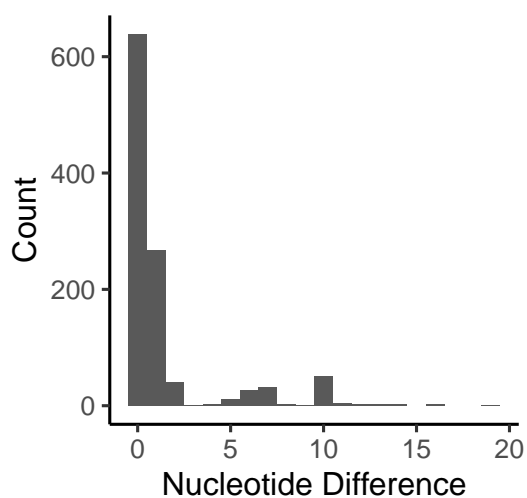
IGHV3-7*01

131 sequences assigned
87 (66.4%) exact matches, in which:
73 unique CDR3
4 unique J



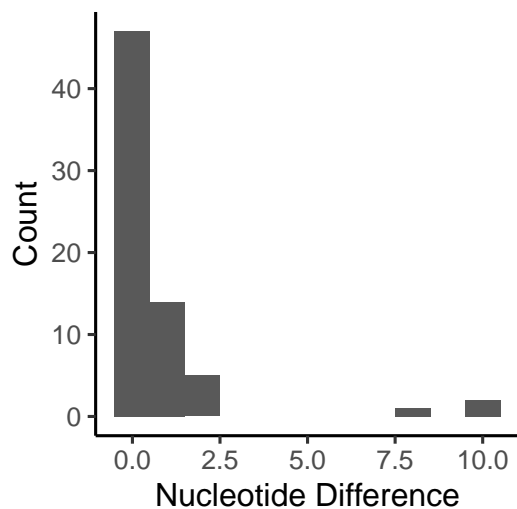
IGHV1-69*01_12_13

1100 sequences assigned
639 (58.1%) exact matches, in which:
572 unique CDR3
6 unique J



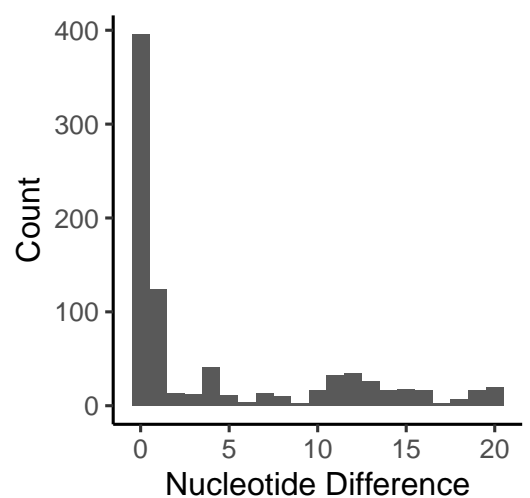
IGHV2-26*01

69 sequences assigned
47 (68.1%) exact matches, in which:
47 unique CDR3
5 unique J



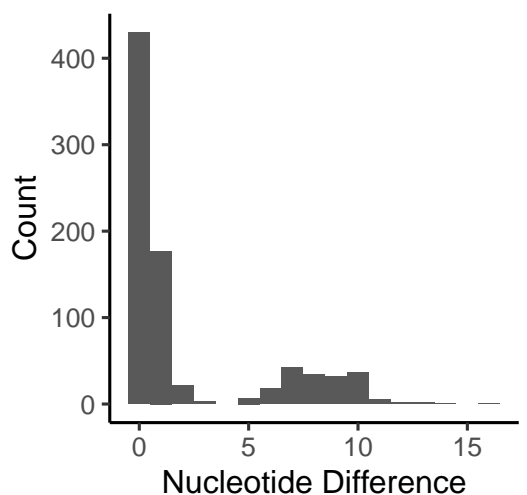
IGHV3-7*03

887 sequences assigned
396 (44.6%) exact matches, in which:
203 unique CDR3
6 unique J



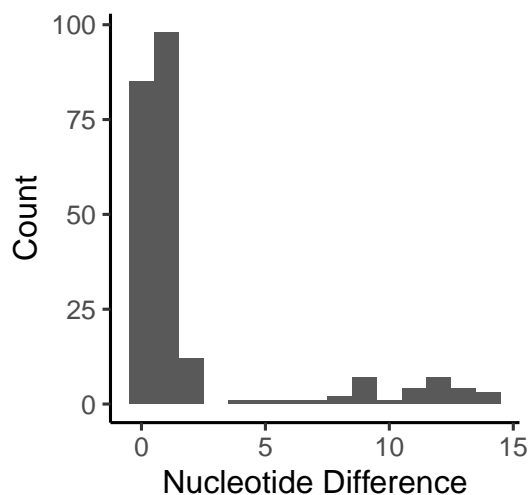
IGHV1-69*06_14

815 sequences assigned
430 (52.8%) exact matches, in which:
391 unique CDR3
6 unique J



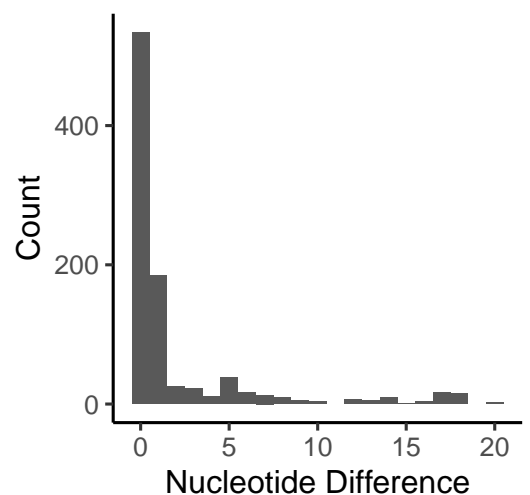
IGHV2-70*01

232 sequences assigned
85 (36.6%) exact matches, in which:
56 unique CDR3
5 unique J



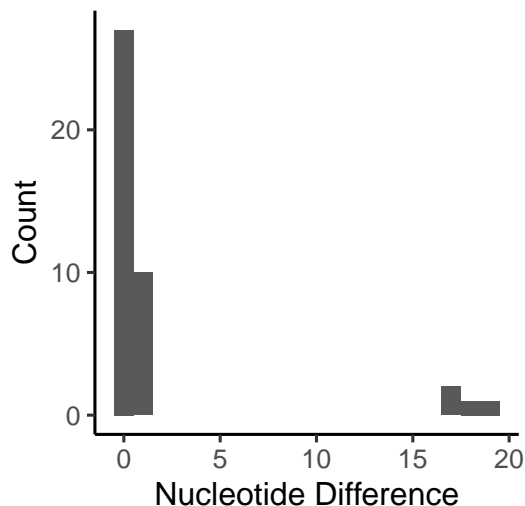
IGHV3-11*06

928 sequences assigned
534 (57.5%) exact matches, in which:
289 unique CDR3
6 unique J



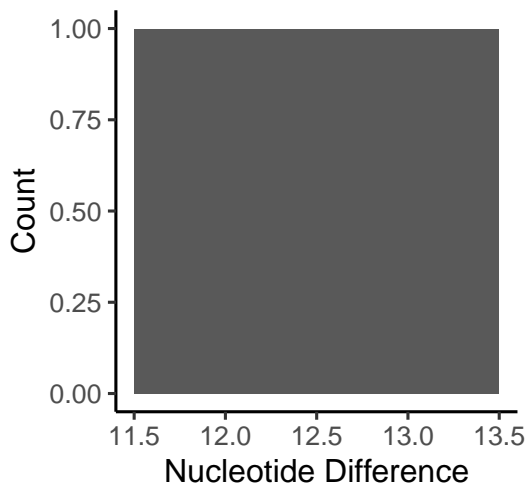
IGHV3-13*05

43 sequences assigned
27 (62.8%) exact matches, in which:
13 unique CDR3
4 unique J



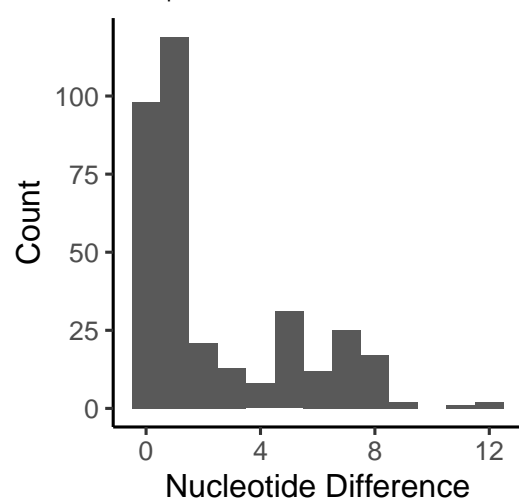
IGHV3-20*03_04

2 sequences assigned
No exact matches.



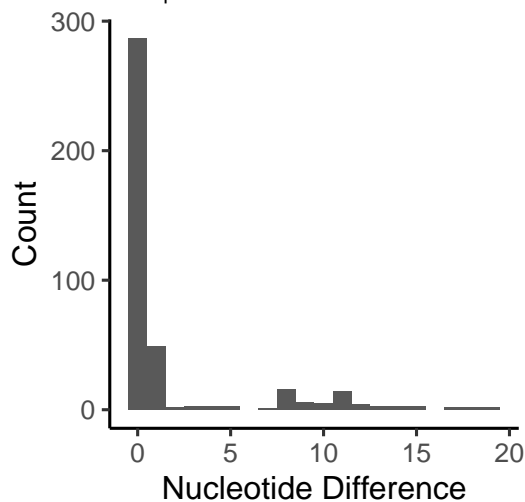
IGHV3-23*01_04_C288T

349 sequences assigned
98 (28.1%) exact matches, in which:
81 unique CDR3
6 unique J



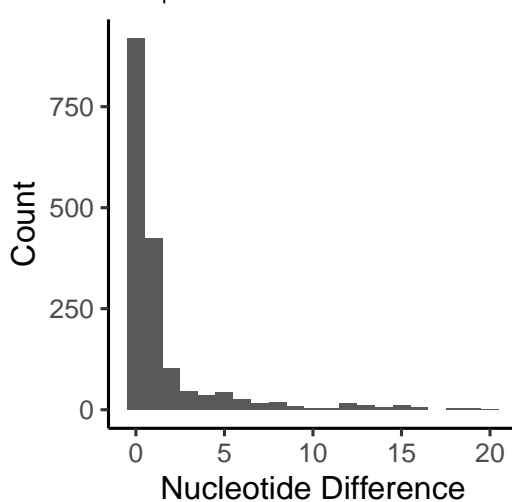
IGHV3-15*07

428 sequences assigned
287 (67.1%) exact matches, in which:
150 unique CDR3
6 unique J



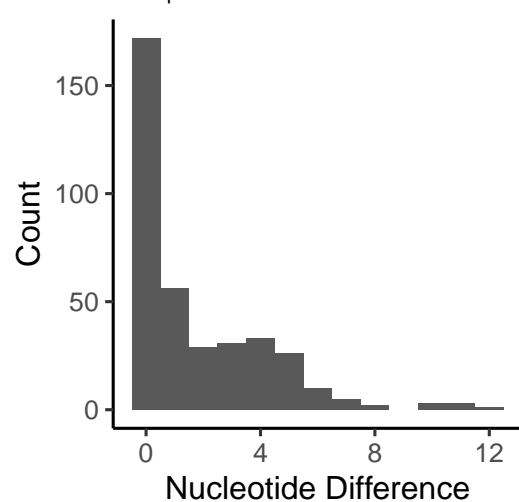
IGHV3-21*01_02

1728 sequences assigned
920 (53.2%) exact matches, in which:
483 unique CDR3
6 unique J



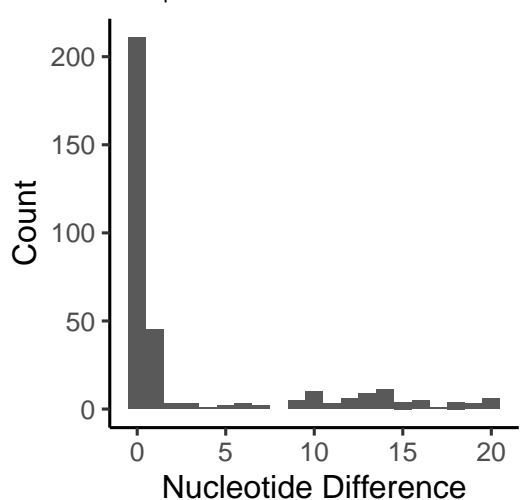
IGHV3-30*03_T288C

371 sequences assigned
172 (46.4%) exact matches, in which:
122 unique CDR3
6 unique J



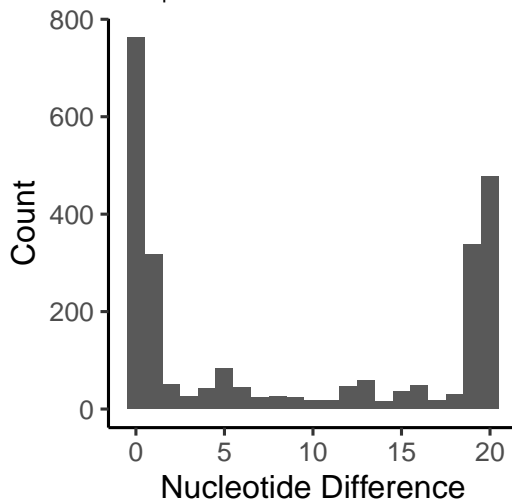
IGHV3-15*01_02

356 sequences assigned
211 (59.3%) exact matches, in which:
117 unique CDR3
6 unique J



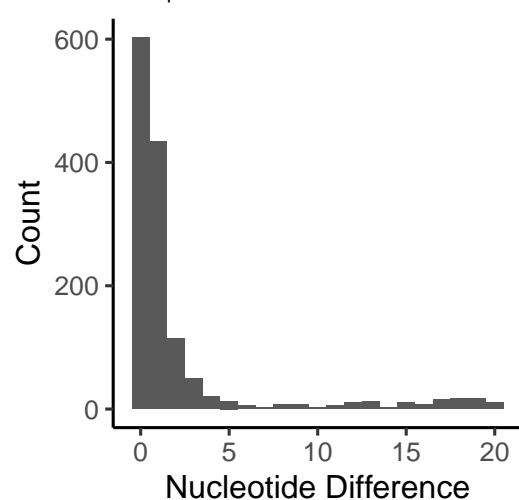
IGHV3-23*01_04

2724 sequences assigned
763 (28%) exact matches, in which:
380 unique CDR3
6 unique J



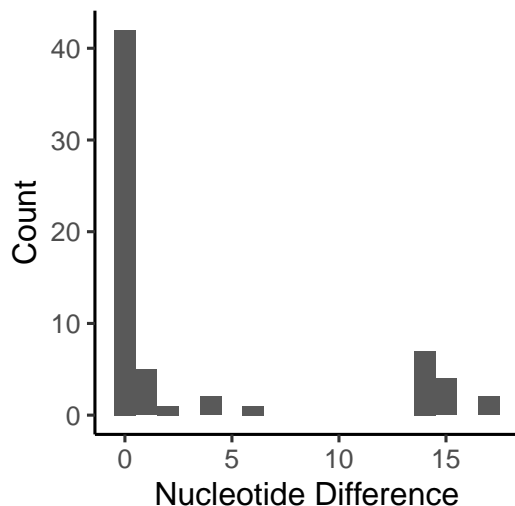
IGHV3-33*01

1399 sequences assigned
603 (43.1%) exact matches, in which:
338 unique CDR3
6 unique J



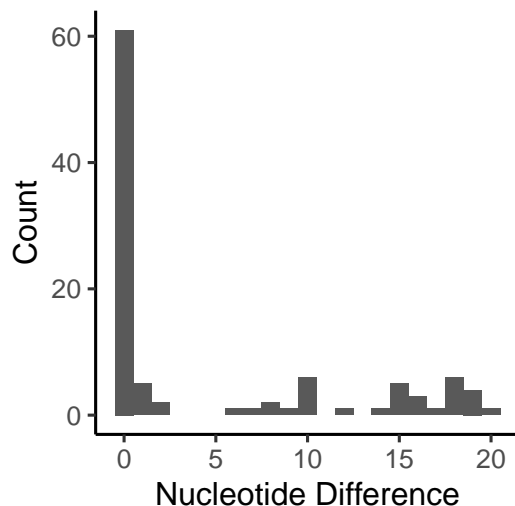
IGHV3-43*01

64 sequences assigned
42 (65.6%) exact matches, in which:
22 unique CDR3
2 unique J



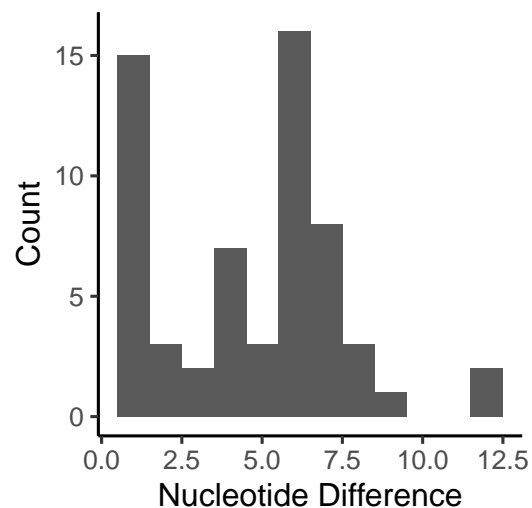
IGHV3-49*04

130 sequences assigned
61 (46.9%) exact matches, in which:
32 unique CDR3
5 unique J



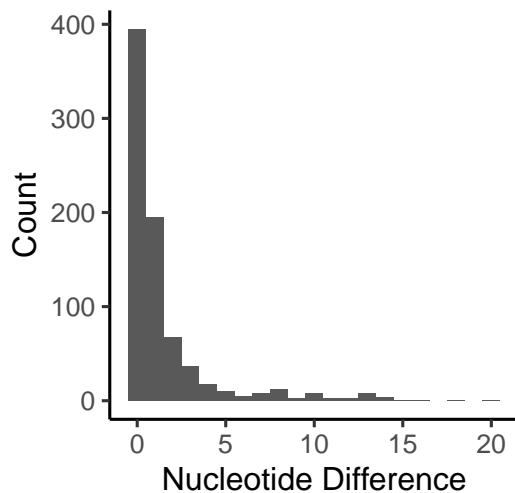
IGHV3-64*04

60 sequences assigned
No exact matches.



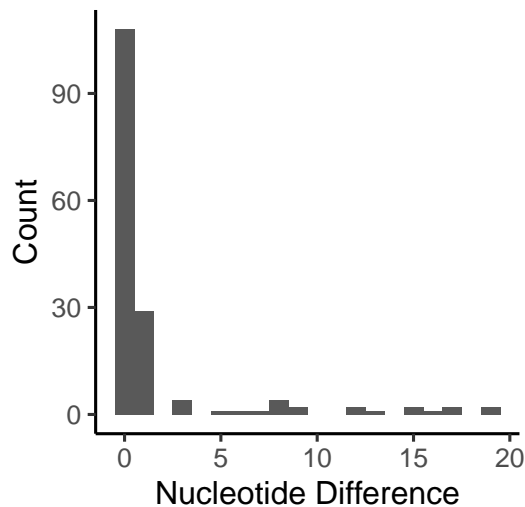
IGHV3-48*01

787 sequences assigned
395 (50.2%) exact matches, in which:
198 unique CDR3
6 unique J



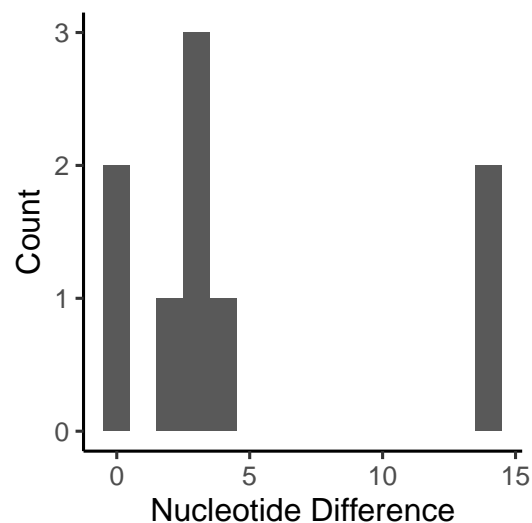
IGHV3-49*03_05

167 sequences assigned
108 (64.7%) exact matches, in which:
51 unique CDR3
4 unique J



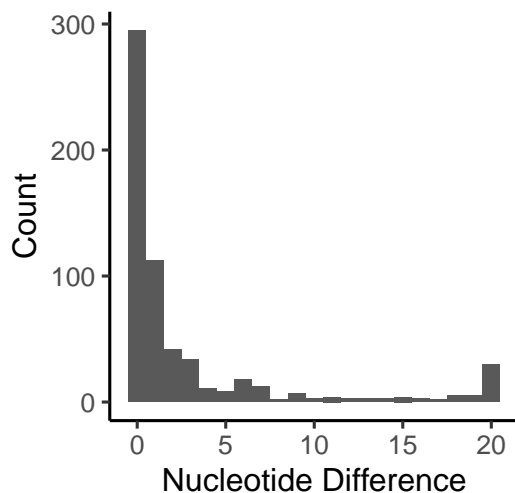
IGHV3-66*03

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



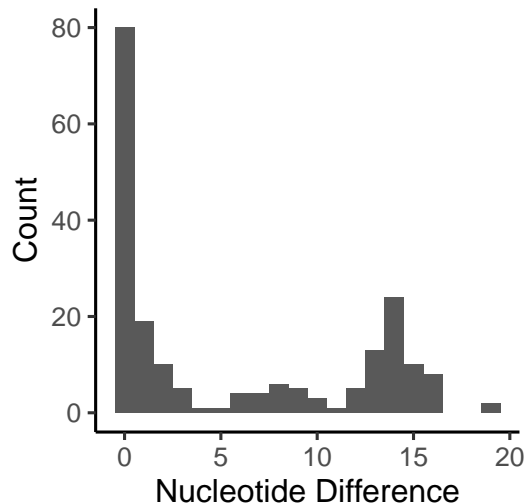
IGHV3-48*03

1442 sequences assigned
295 (20.5%) exact matches, in which:
152 unique CDR3
6 unique J



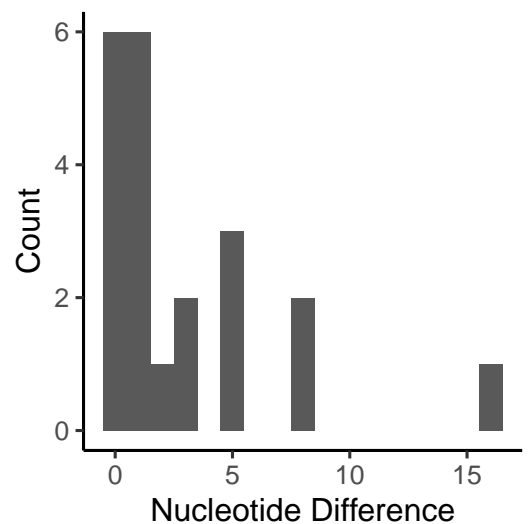
IGHV3-53*01_02

211 sequences assigned
80 (37.9%) exact matches, in which:
41 unique CDR3
4 unique J



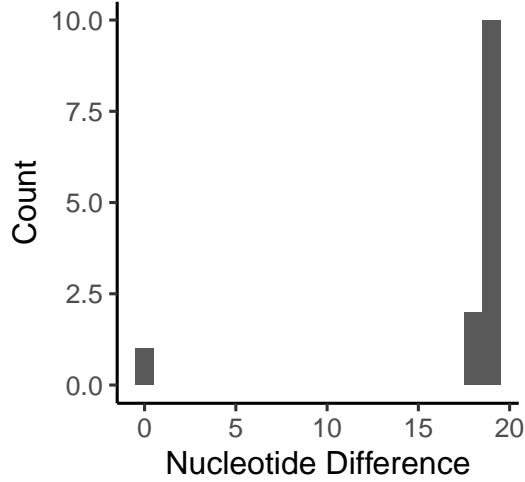
IGHV3-69-1*01

21 sequences assigned
6 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J



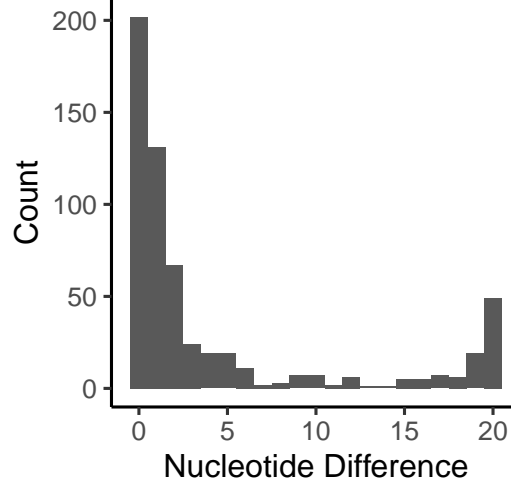
IGHV3-69-1*02

13 sequences assigned
1 (7.7%) exact matches, in which:
1 unique CDR3
1 unique J



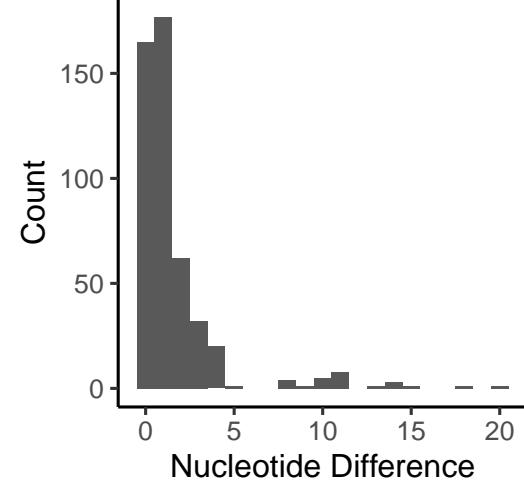
IGHV3-74*01_02

1187 sequences assigned
202 (17%) exact matches, in which:
102 unique CDR3
6 unique J



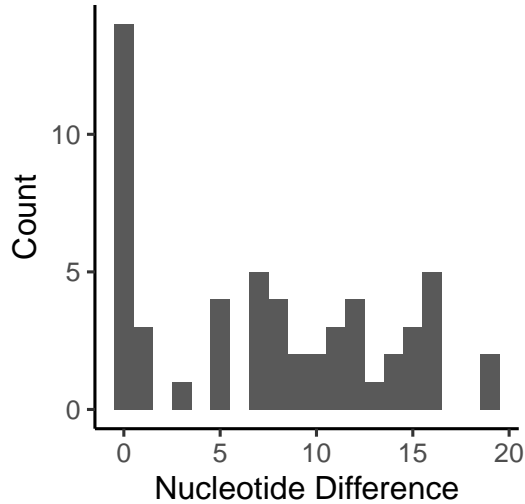
IGHV4-4*07

492 sequences assigned
165 (33.5%) exact matches, in which:
132 unique CDR3
6 unique J



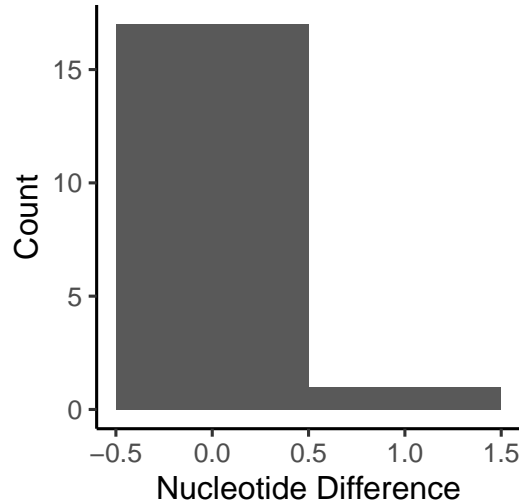
IGHV3-72*01

89 sequences assigned
14 (15.7%) exact matches, in which:
7 unique CDR3
3 unique J



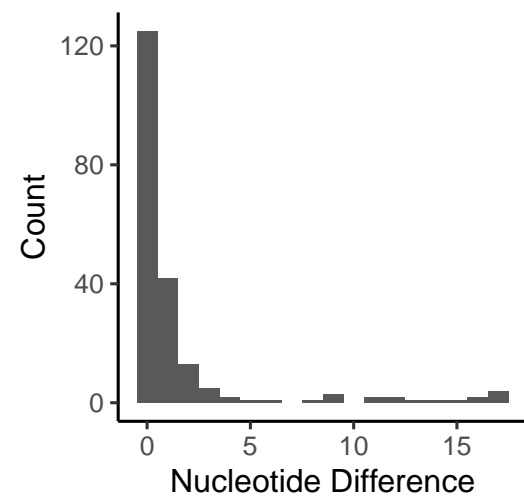
IGHV3-43D*04

22 sequences assigned
17 (77.3%) exact matches, in which:
9 unique CDR3
2 unique J



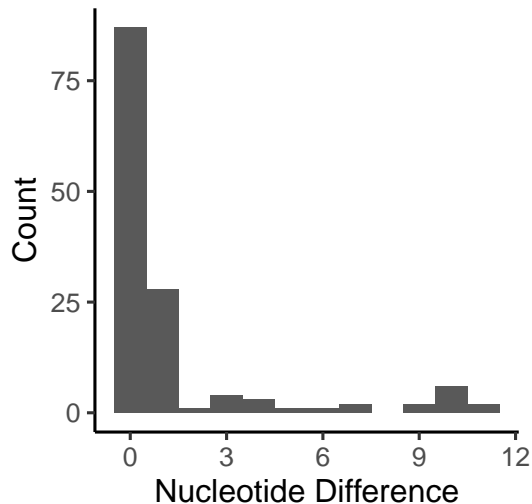
IGHV4-4*02_03

206 sequences assigned
125 (60.7%) exact matches, in which:
98 unique CDR3
6 unique J



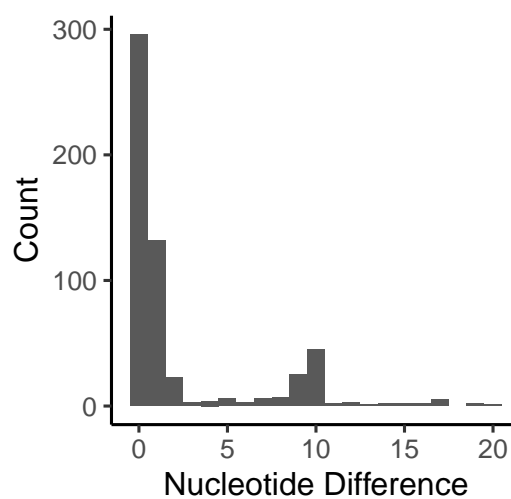
IGHV3-73*01_02

137 sequences assigned
87 (63.5%) exact matches, in which:
39 unique CDR3
5 unique J



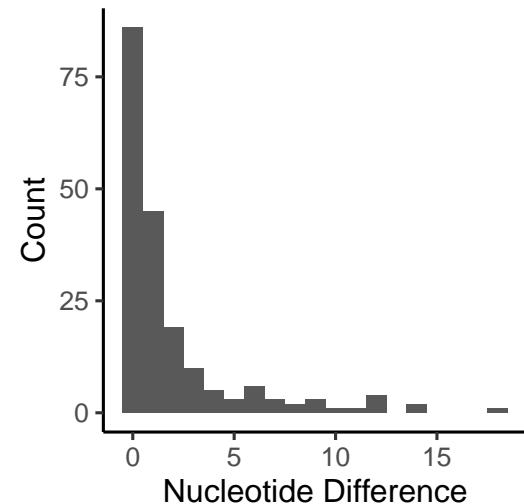
IGHV3-64D*06

588 sequences assigned
296 (50.3%) exact matches, in which:
132 unique CDR3
6 unique J



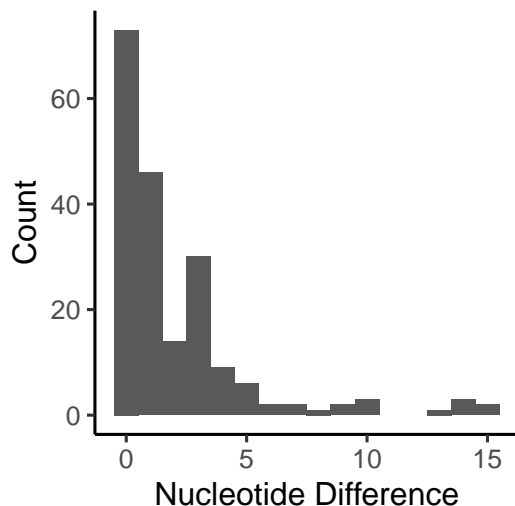
IGHV4-30-2*01

214 sequences assigned
86 (40.2%) exact matches, in which:
62 unique CDR3
6 unique J



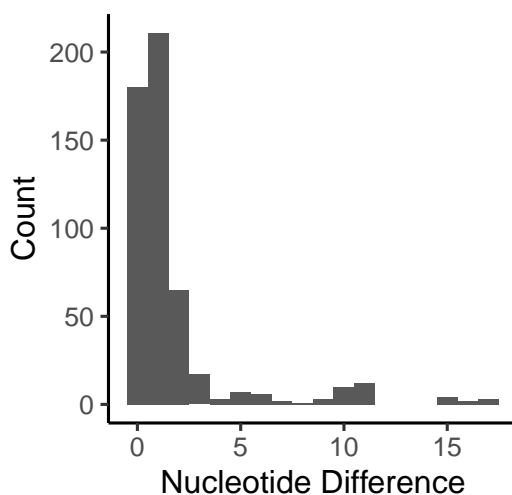
IGHV4-30-4*01

197 sequences assigned
73 (37.1%) exact matches, in which:
66 unique CDR3
5 unique J



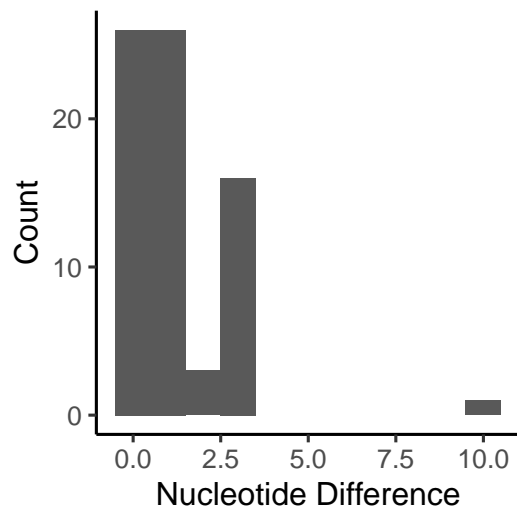
IGHV4-38-2*02_A70G

530 sequences assigned
180 (34%) exact matches, in which:
113 unique CDR3
6 unique J



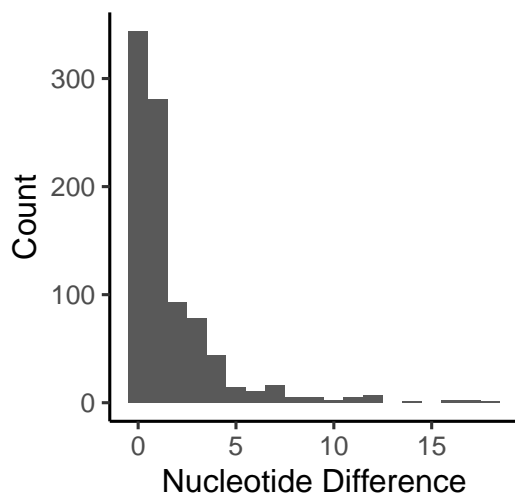
IGHV4-39*07_C288T

72 sequences assigned
26 (36.1%) exact matches, in which:
24 unique CDR3
5 unique J



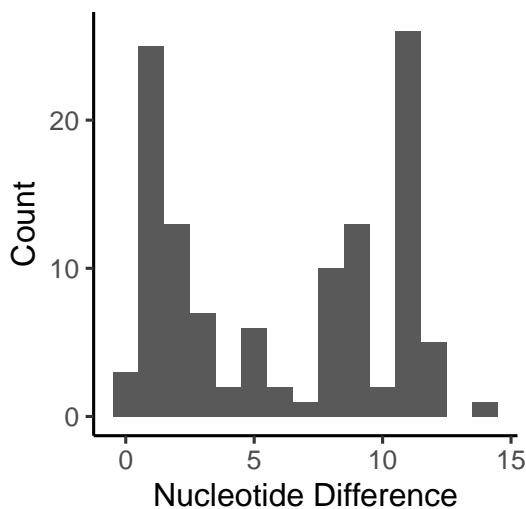
IGHV4-31*02

921 sequences assigned
344 (37.4%) exact matches, in which:
287 unique CDR3
6 unique J



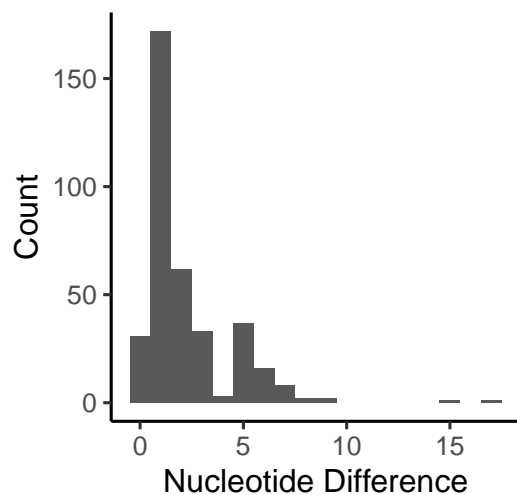
IGHV4-39*07

116 sequences assigned
3 (2.6%) exact matches, in which:
3 unique CDR3
2 unique J



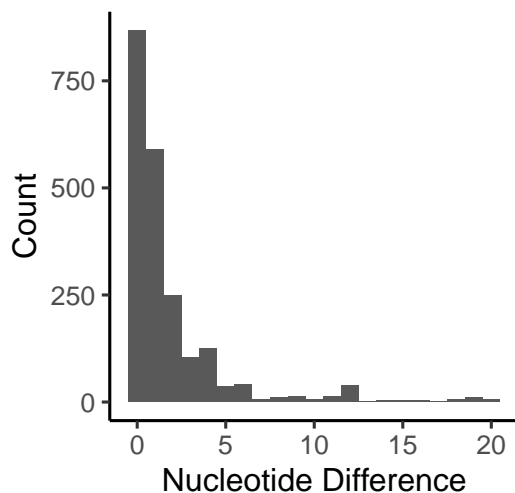
IGHV4-59*12

372 sequences assigned
31 (8.3%) exact matches, in which:
31 unique CDR3
4 unique J



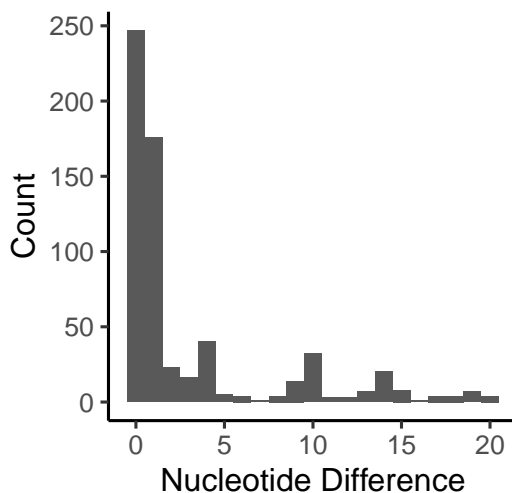
IGHV4-34*01_02

2152 sequences assigned
868 (40.3%) exact matches, in which:
674 unique CDR3
6 unique J



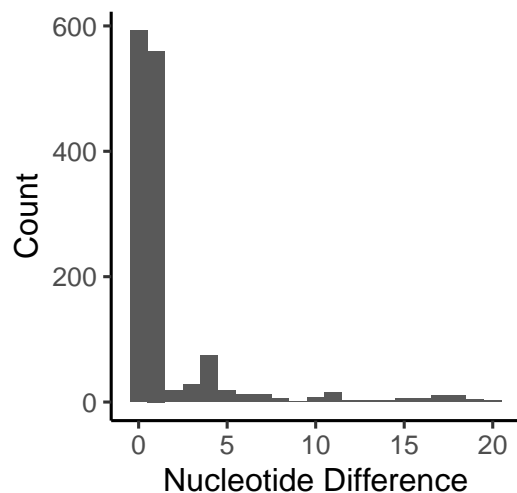
IGHV4-39*02_C258G

635 sequences assigned
247 (38.9%) exact matches, in which:
188 unique CDR3
6 unique J



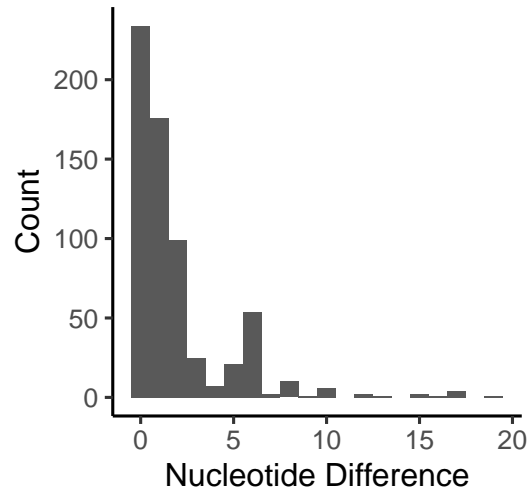
IGHV4-59*02_G88A

1521 sequences assigned
593 (39%) exact matches, in which:
467 unique CDR3
6 unique J



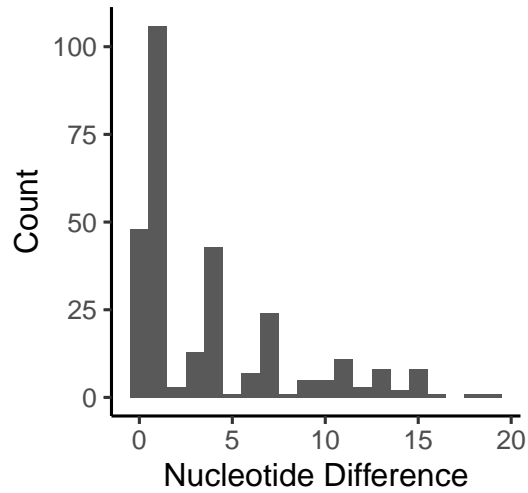
IGHV4-61*01

659 sequences assigned
234 (35.5%) exact matches, in which:
204 unique CDR3
6 unique J



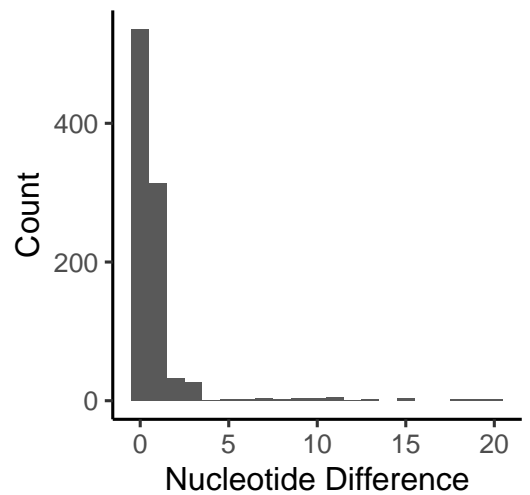
IGHV6-1*01_02

303 sequences assigned
48 (15.8%) exact matches, in which:
34 unique CDR3
4 unique J



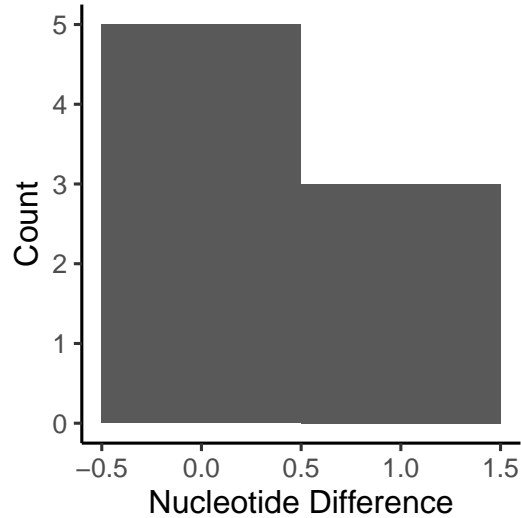
IGHV5-10-1*01_03

944 sequences assigned
536 (56.8%) exact matches, in which:
300 unique CDR3
6 unique J



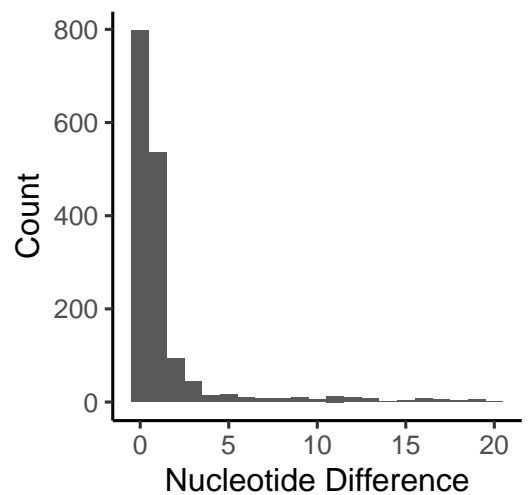
IGHV7-4-1*01

8 sequences assigned
5 (62.5%) exact matches, in which:
5 unique CDR3
3 unique J



IGHV5-51*07_A128G

1602 sequences assigned
798 (49.8%) exact matches, in which:
397 unique CDR3
6 unique J





Warning – no inferred sequences found.