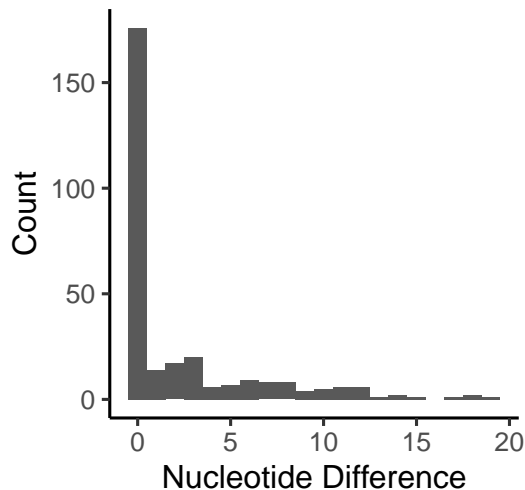


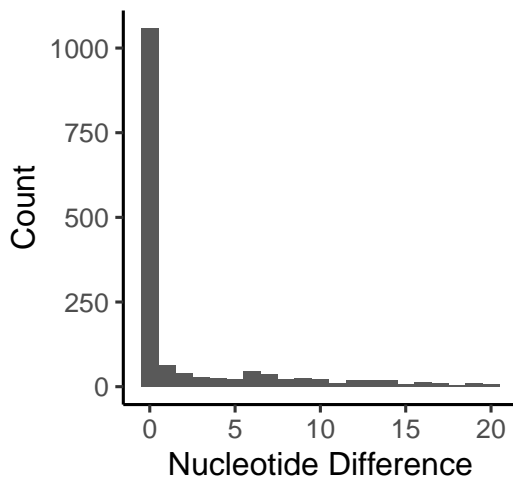
IGHV1-2*04

299 sequences assigned
176 (58.9%) exact matches, in which:
175 unique CDR3
6 unique J



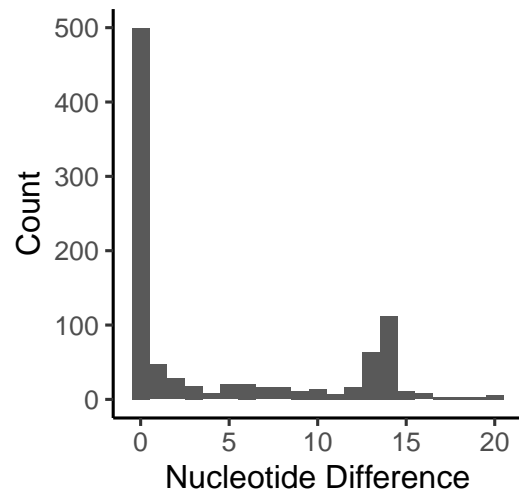
IGHV1-18*01

1595 sequences assigned
1058 (66.3%) exact matches, in which:
1047 unique CDR3
6 unique J



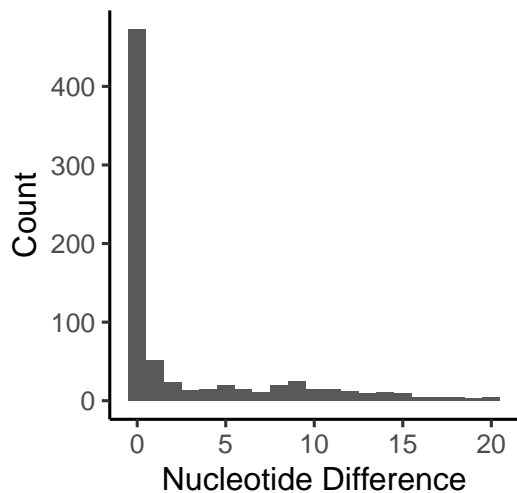
IGHV1-46*01

950 sequences assigned
500 (52.6%) exact matches, in which:
494 unique CDR3
6 unique J



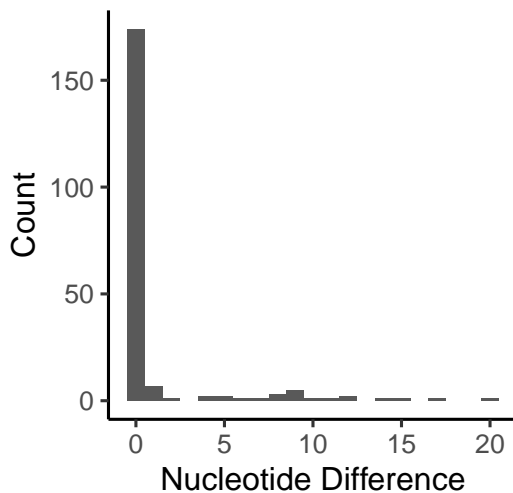
IGHV1-3*01_05

945 sequences assigned
473 (50.1%) exact matches, in which:
461 unique CDR3
6 unique J



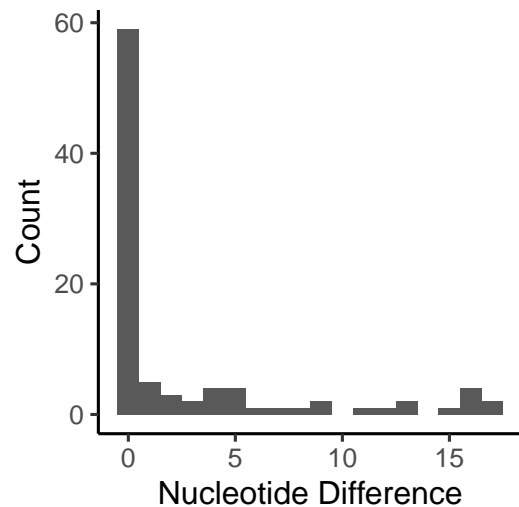
IGHV1-24*01

207 sequences assigned
174 (84.1%) exact matches, in which:
174 unique CDR3
6 unique J



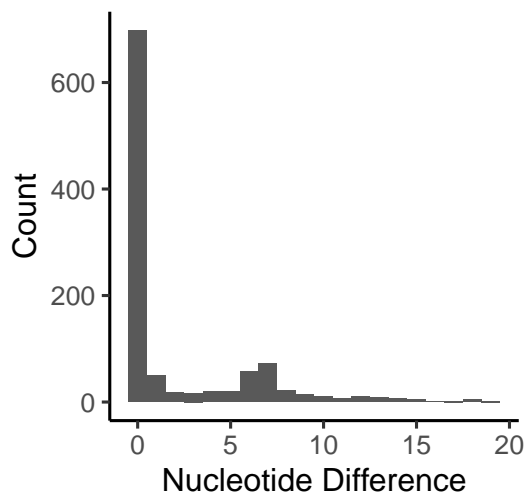
IGHV1-58*02

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



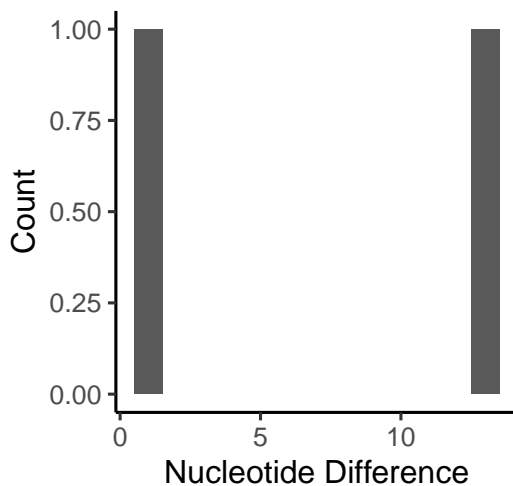
IGHV1-8*01

1080 sequences assigned
698 (64.6%) exact matches, in which:
694 unique CDR3
6 unique J



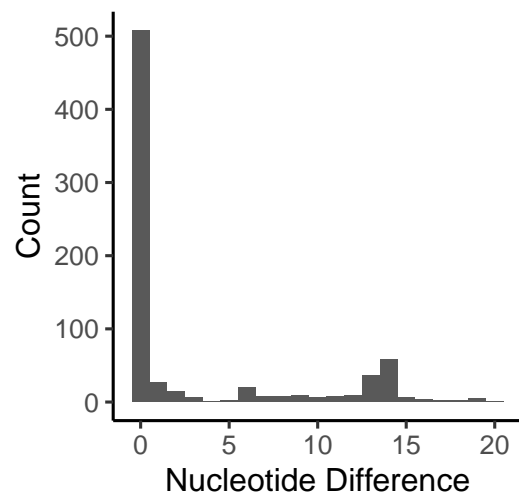
IGHV1-45*02

2 sequences assigned
No exact matches.



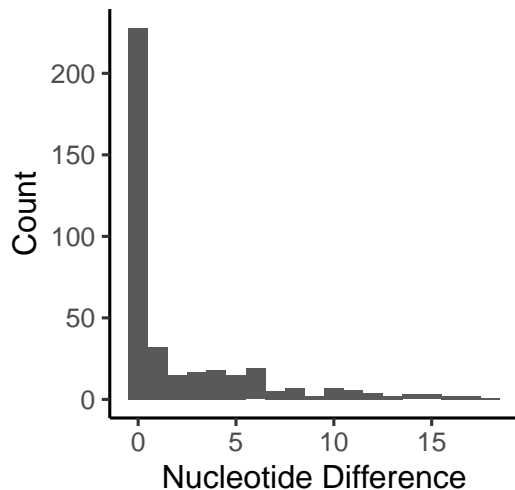
IGHV1-69*04_09

759 sequences assigned
508 (66.9%) exact matches, in which:
507 unique CDR3
6 unique J



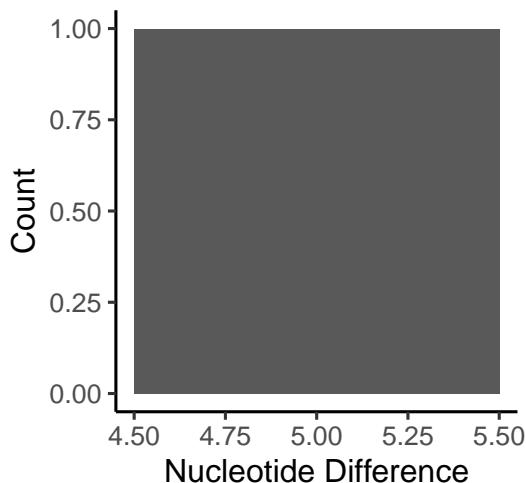
IGHV2-5*02

426 sequences assigned
228 (53.5%) exact matches, in which:
228 unique CDR3
5 unique J



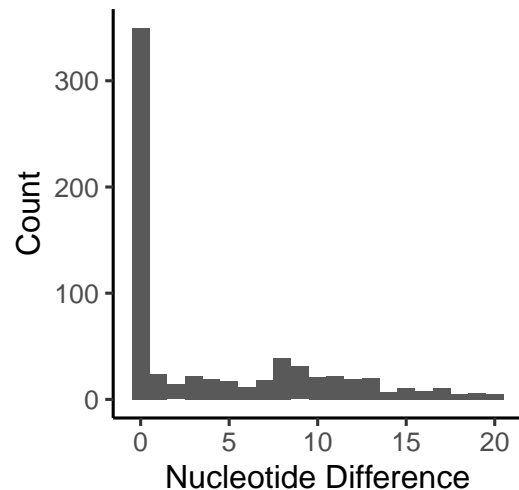
IGHV2-70D*04

1 sequences assigned
No exact matches.



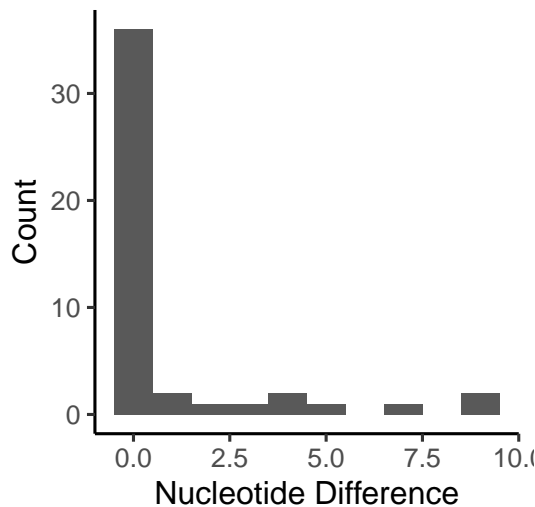
IGHV3-11*01

763 sequences assigned
350 (45.9%) exact matches, in which:
256 unique CDR3
6 unique J



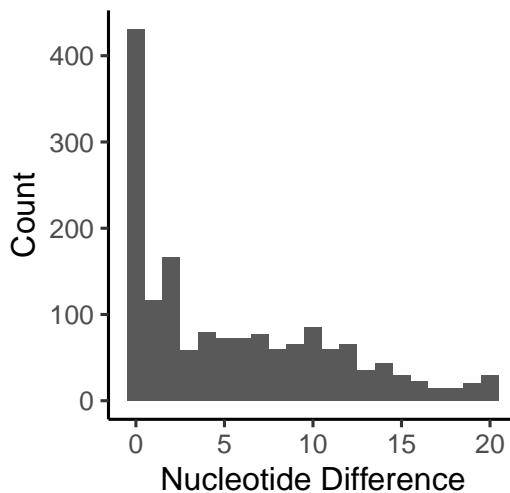
IGHV2-26*01

46 sequences assigned
36 (78.3%) exact matches, in which:
36 unique CDR3
5 unique J



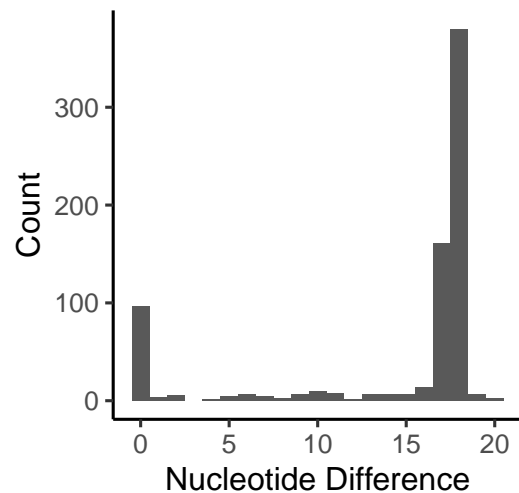
IGHV3-7*01

1691 sequences assigned
431 (25.5%) exact matches, in which:
326 unique CDR3
6 unique J



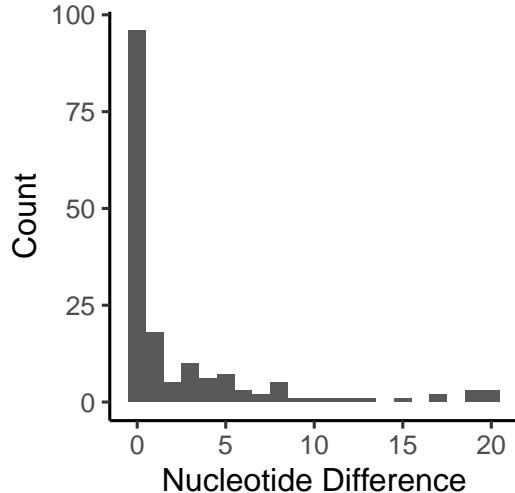
IGHV3-13*01

767 sequences assigned
97 (12.6%) exact matches, in which:
69 unique CDR3
5 unique J



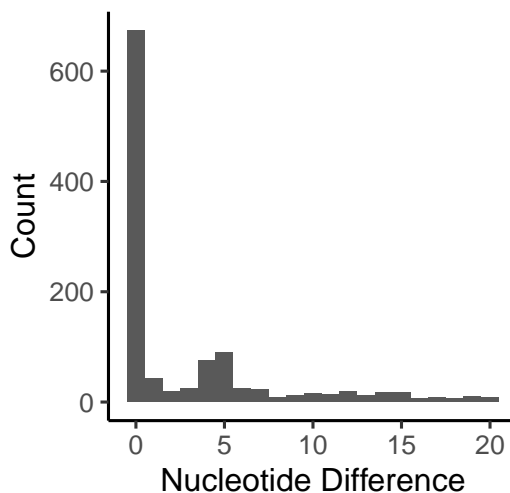
IGHV2-70*11_15

169 sequences assigned
96 (56.8%) exact matches, in which:
94 unique CDR3
5 unique J



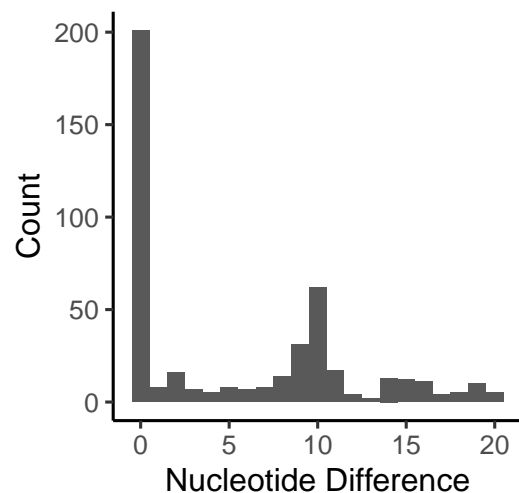
IGHV3-9*01

1224 sequences assigned
674 (55.1%) exact matches, in which:
486 unique CDR3
6 unique J



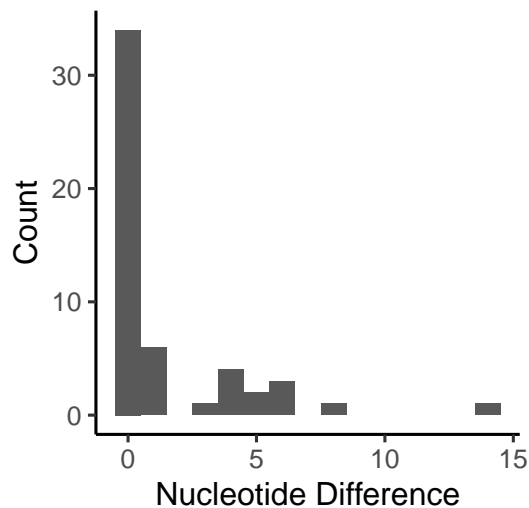
IGHV3-15*01_02

467 sequences assigned
201 (43%) exact matches, in which:
163 unique CDR3
5 unique J



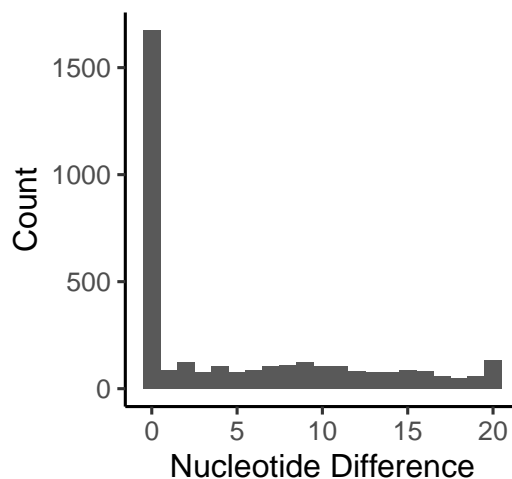
IGHV3-20*01_02

52 sequences assigned
34 (65.4%) exact matches, in which:
27 unique CDR3
5 unique J



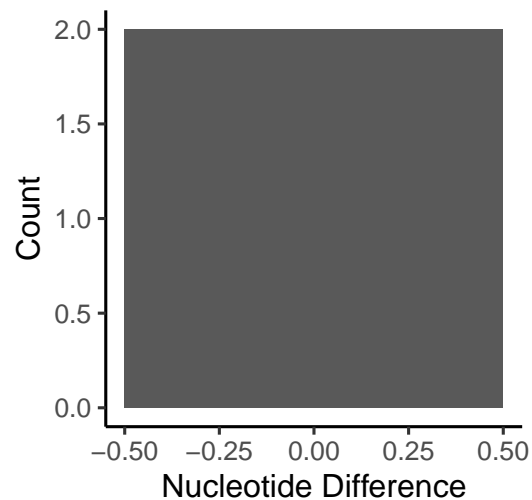
IGHV3-23*01_04

4522 sequences assigned
1674 (37%) exact matches, in which:
1221 unique CDR3
6 unique J



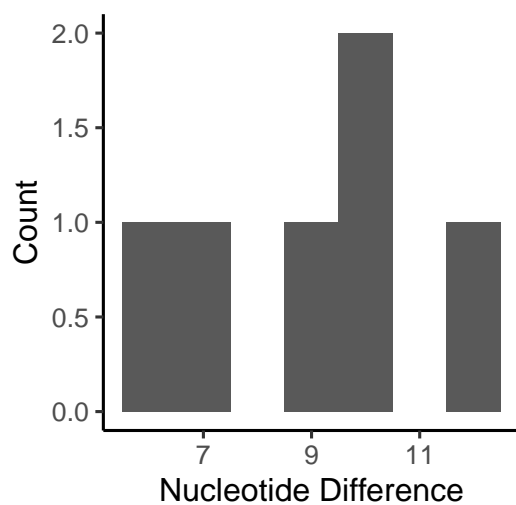
IGHV3-35*01

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



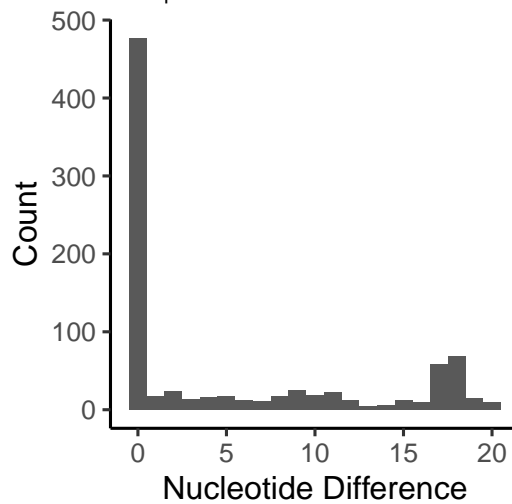
IGHV3-20*03_04

10 sequences assigned
No exact matches.



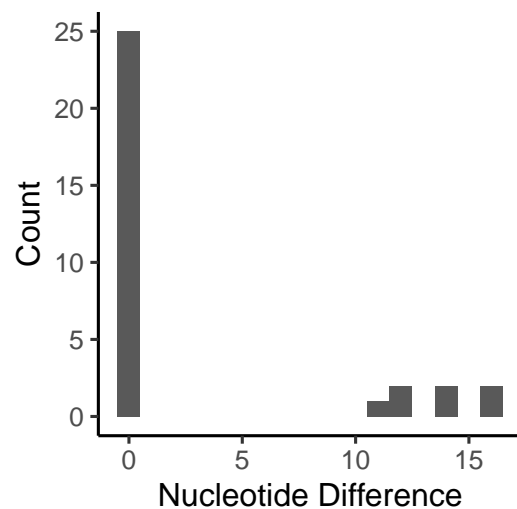
IGHV3-30-3*01

930 sequences assigned
477 (51.3%) exact matches, in which:
368 unique CDR3
6 unique J



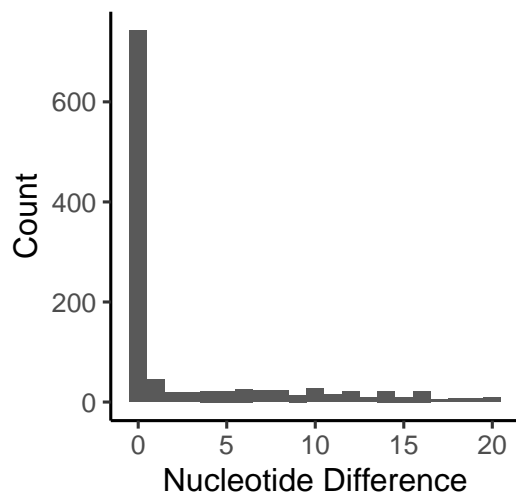
IGHV3-43*01

33 sequences assigned
25 (75.8%) exact matches, in which:
20 unique CDR3
3 unique J



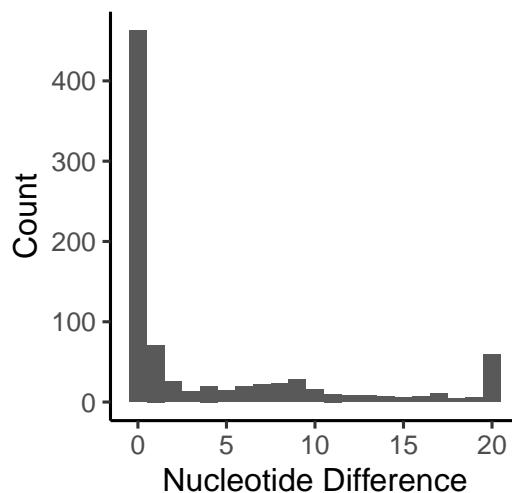
IGHV3-21*01_02

1199 sequences assigned
743 (62%) exact matches, in which:
537 unique CDR3
6 unique J



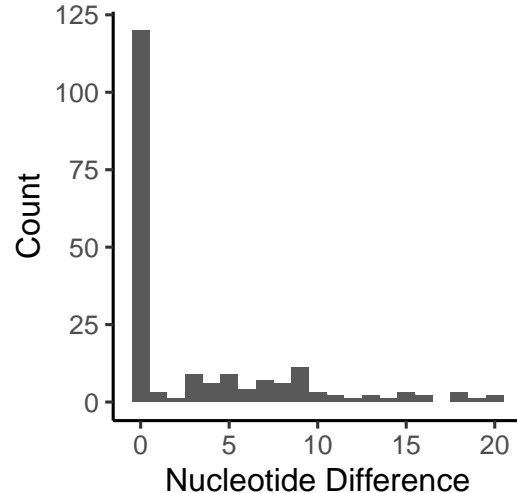
IGHV3-33*01

3223 sequences assigned
463 (14.4%) exact matches, in which:
354 unique CDR3
6 unique J



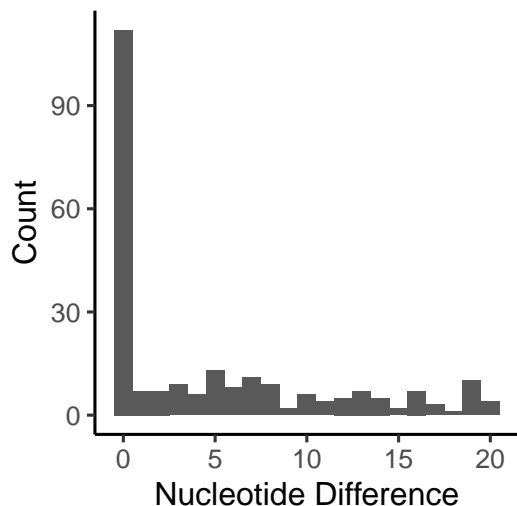
IGHV3-43*02

229 sequences assigned
120 (52.4%) exact matches, in which:
90 unique CDR3
6 unique J



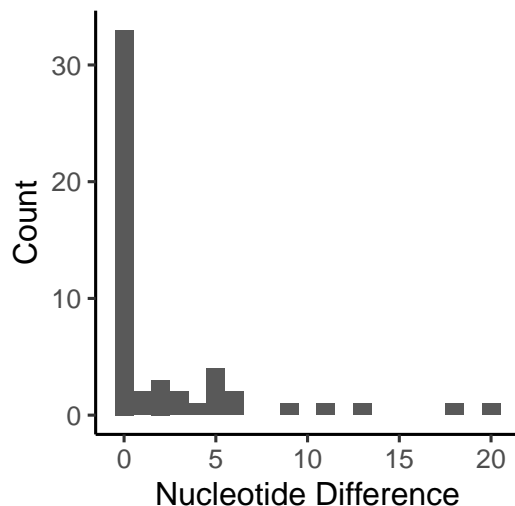
IGHV3-48*02

251 sequences assigned
112 (44.6%) exact matches, in which:
84 unique CDR3
6 unique J



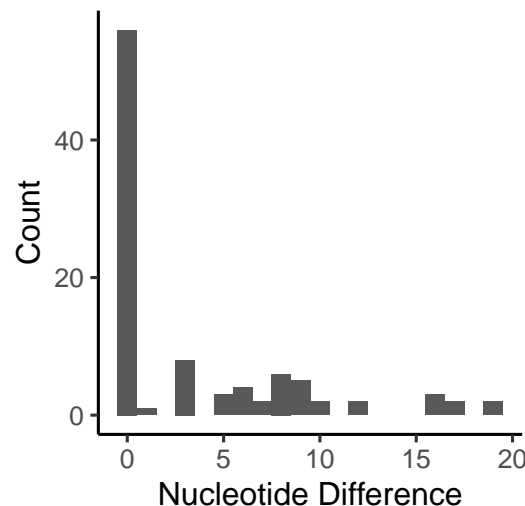
IGHV3-49*03_05

55 sequences assigned
33 (60%) exact matches, in which:
24 unique CDR3
4 unique J



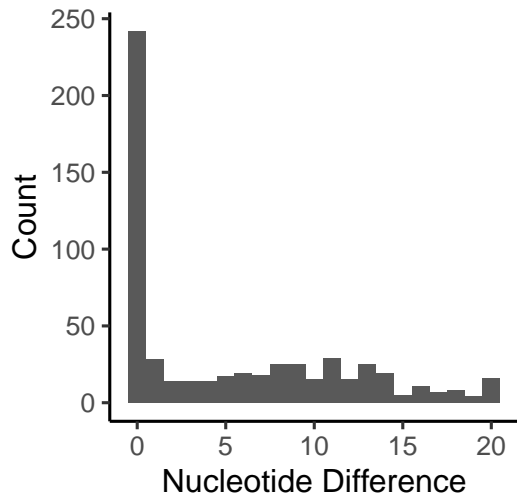
IGHV3-64*01

103 sequences assigned
56 (54.4%) exact matches, in which:
40 unique CDR3
5 unique J



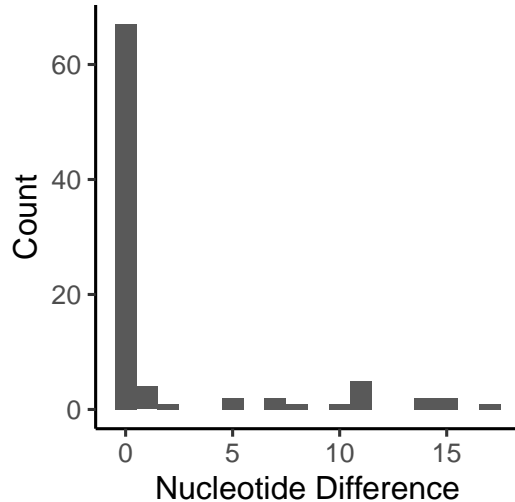
IGHV3-48*03

856 sequences assigned
242 (28.3%) exact matches, in which:
188 unique CDR3
5 unique J



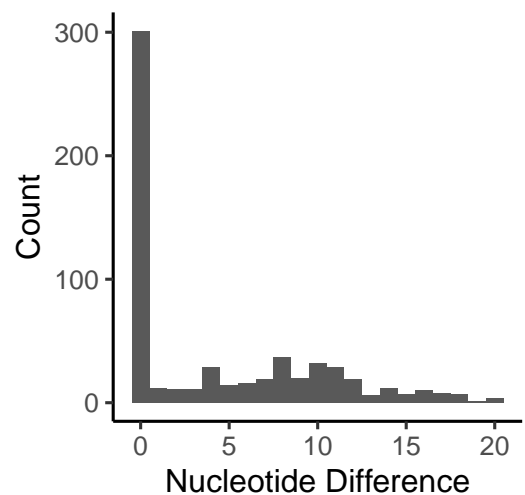
IGHV3-53*04

96 sequences assigned
67 (69.8%) exact matches, in which:
46 unique CDR3
5 unique J



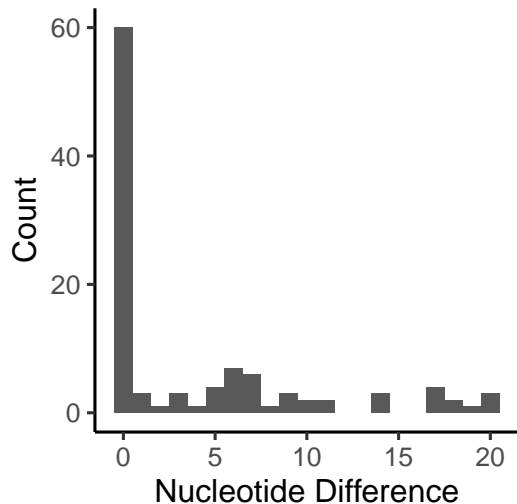
IGHV3-66*01

641 sequences assigned
301 (47%) exact matches, in which:
218 unique CDR3
6 unique J



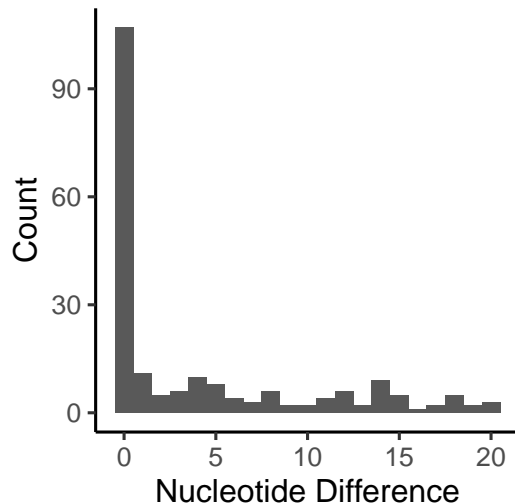
IGHV3-49*04

110 sequences assigned
60 (54.5%) exact matches, in which:
48 unique CDR3
4 unique J



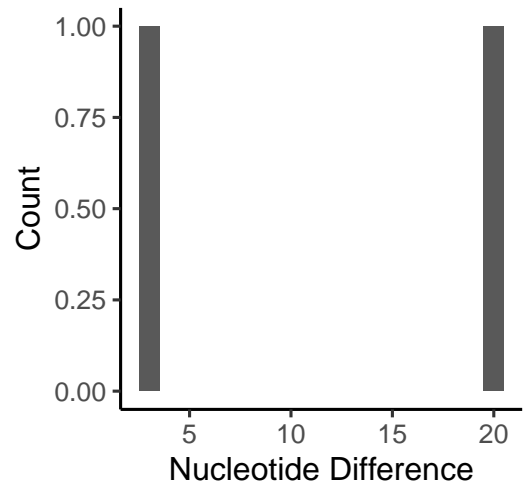
IGHV3-53*01_02

215 sequences assigned
107 (49.8%) exact matches, in which:
72 unique CDR3
6 unique J



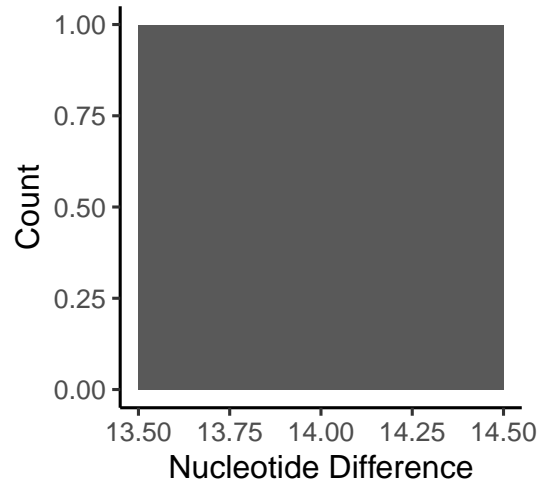
IGHV3-69-1*01

2 sequences assigned
No exact matches.



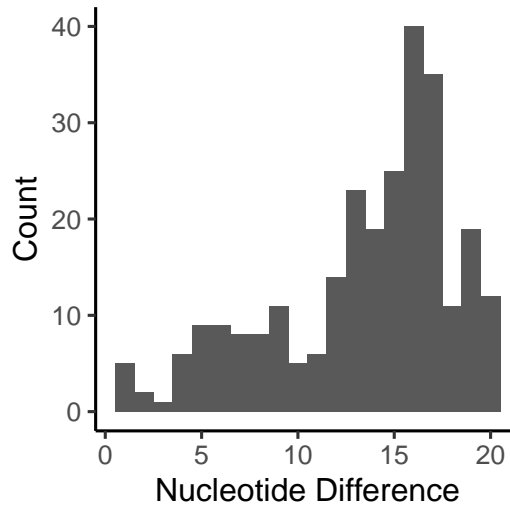
IGHV3-69-1*02

3 sequences assigned
No exact matches.



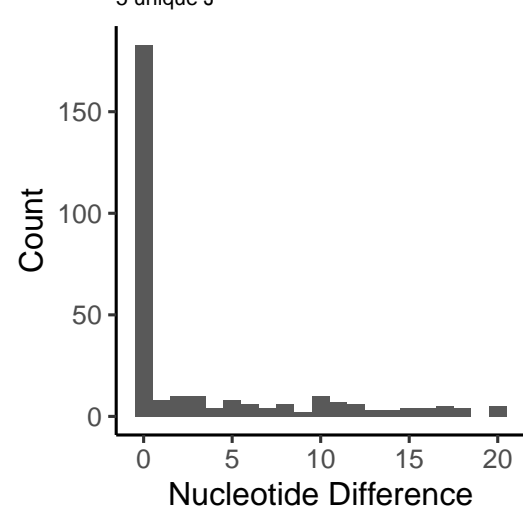
IGHV3-74*03

295 sequences assigned
No exact matches.



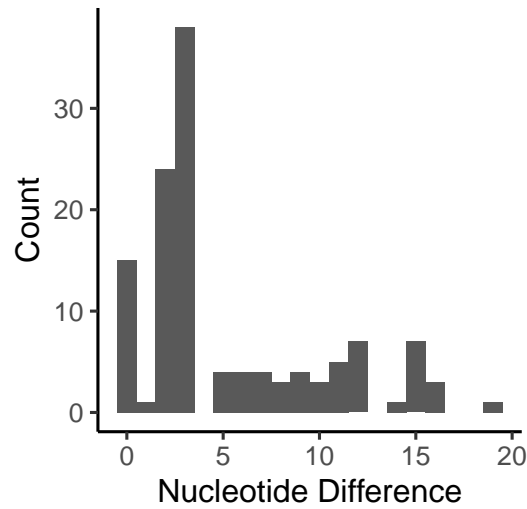
IGHV4-4*02_03

301 sequences assigned
183 (60.8%) exact matches, in which:
179 unique CDR3
5 unique J



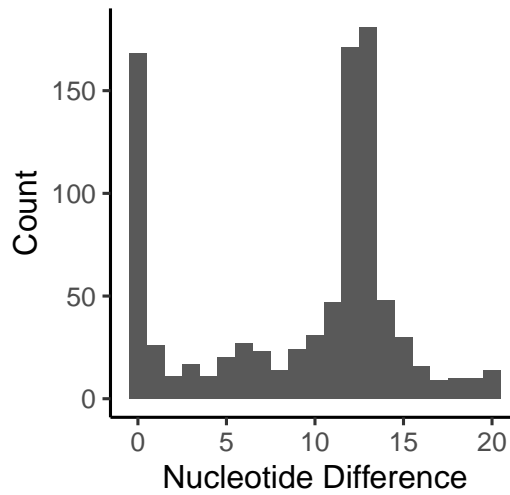
IGHV3-72*01

132 sequences assigned
15 (11.4%) exact matches, in which:
11 unique CDR3
2 unique J



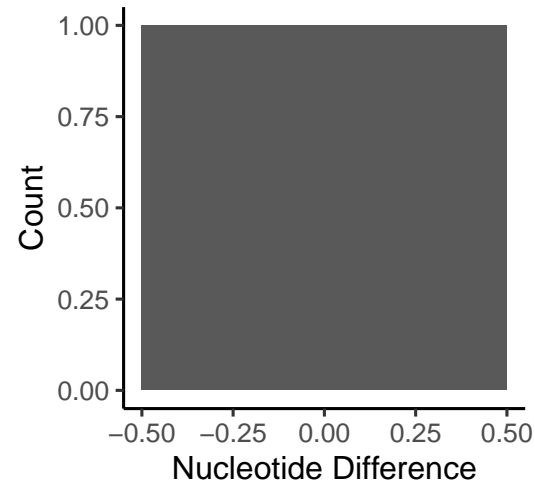
IGHV3-74*01_02

947 sequences assigned
168 (17.7%) exact matches, in which:
116 unique CDR3
5 unique J



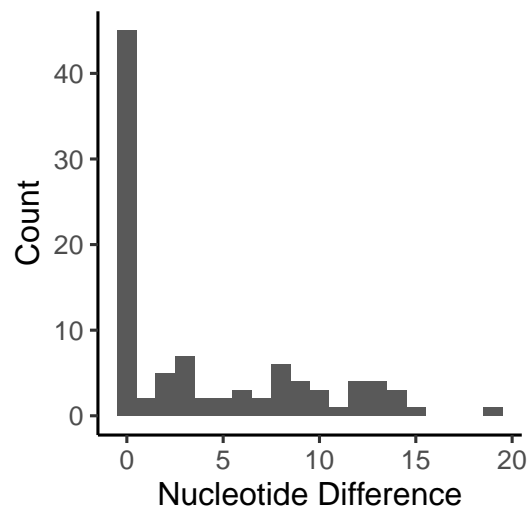
IGHV4-28*03

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



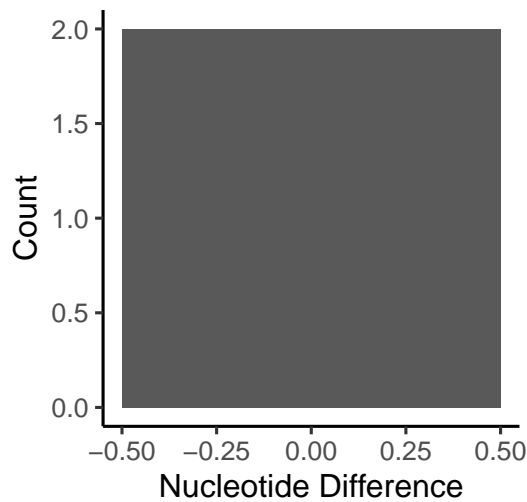
IGHV3-73*01_02

99 sequences assigned
45 (45.5%) exact matches, in which:
34 unique CDR3
5 unique J



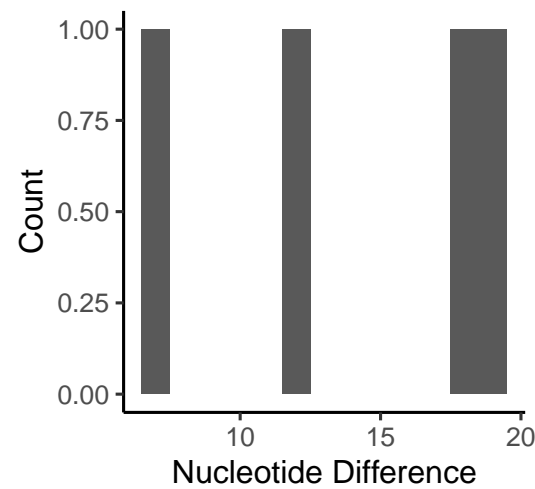
IGHV3-64D*06

6 sequences assigned
2 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



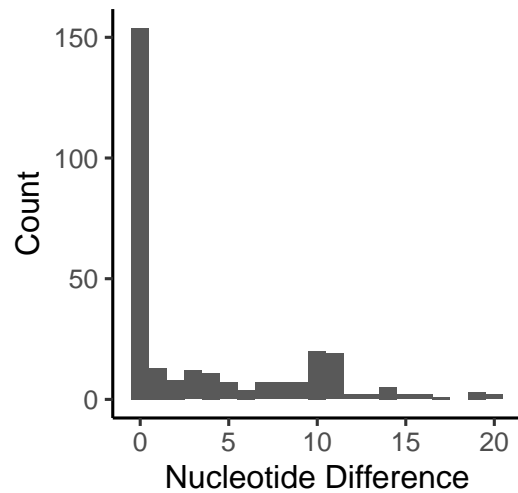
IGHV4-28*01_07

4 sequences assigned
No exact matches.



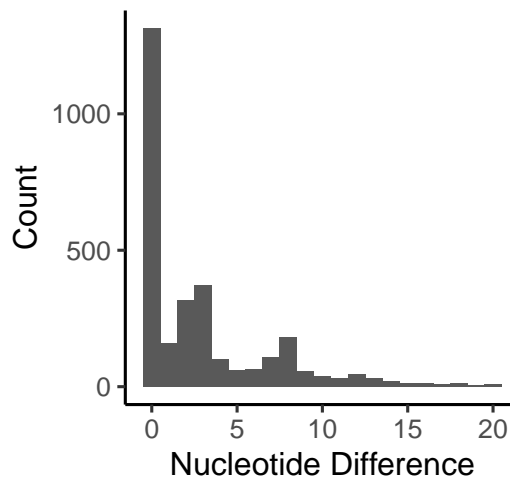
IGHV4-30-4*01

303 sequences assigned
154 (50.8%) exact matches, in which:
153 unique CDR3
6 unique J



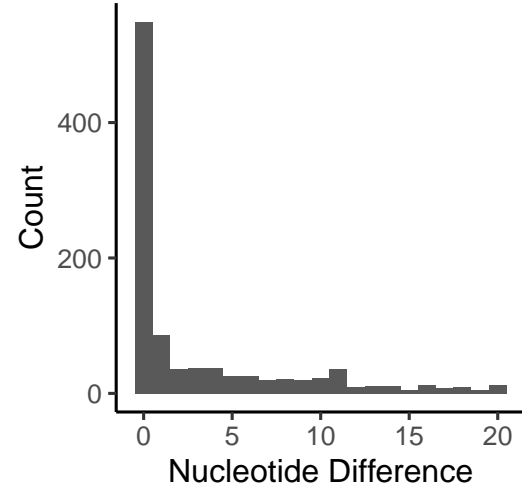
IGHV4-34*01_02

3000 sequences assigned
1313 (43.8%) exact matches, in which:
1286 unique CDR3
6 unique J



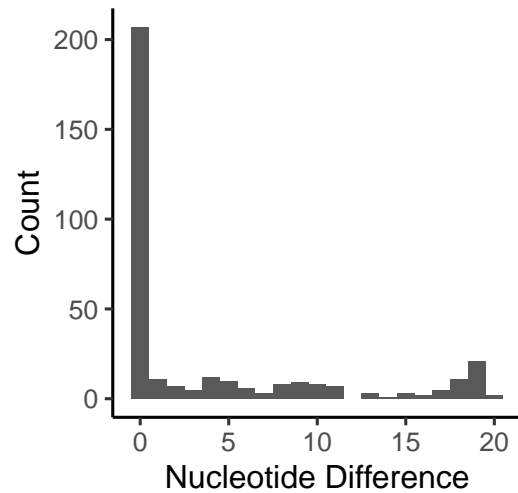
IGHV4-59*08

1095 sequences assigned
549 (50.1%) exact matches, in which:
543 unique CDR3
6 unique J



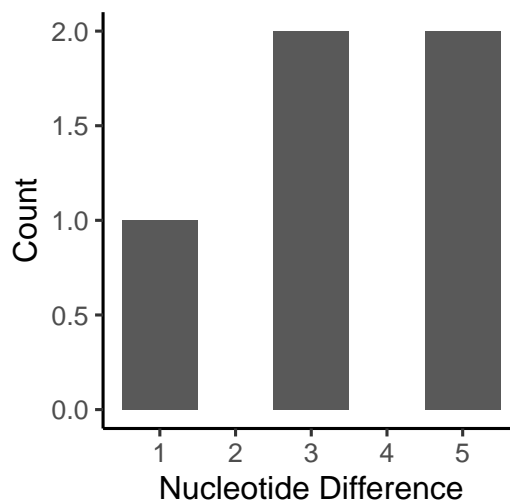
IGHV4-30-2*01

363 sequences assigned
207 (57%) exact matches, in which:
193 unique CDR3
5 unique J



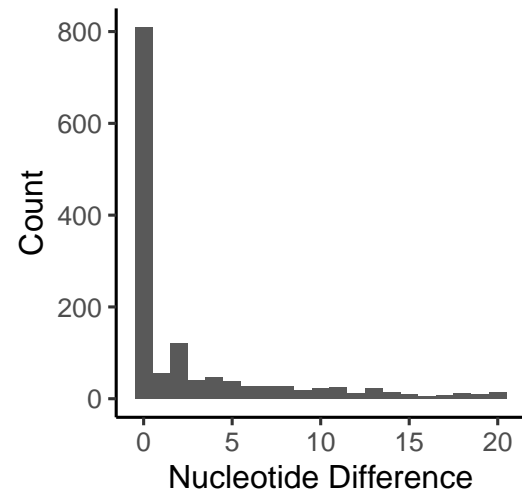
IGHV4-38-2*02

6 sequences assigned
No exact matches.



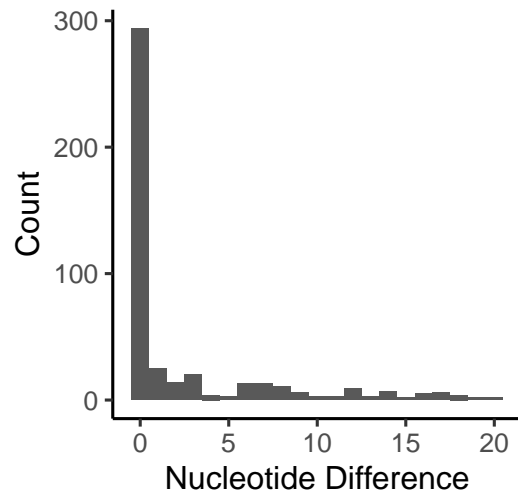
IGHV4-59*02_G88A

1424 sequences assigned
810 (56.9%) exact matches, in which:
805 unique CDR3
6 unique J



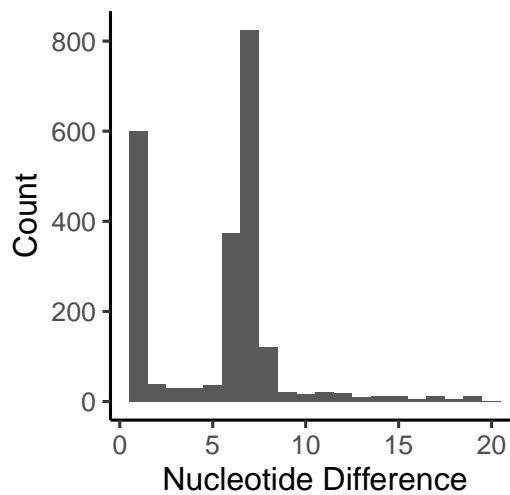
IGHV4-31*02

522 sequences assigned
294 (56.3%) exact matches, in which:
287 unique CDR3
6 unique J



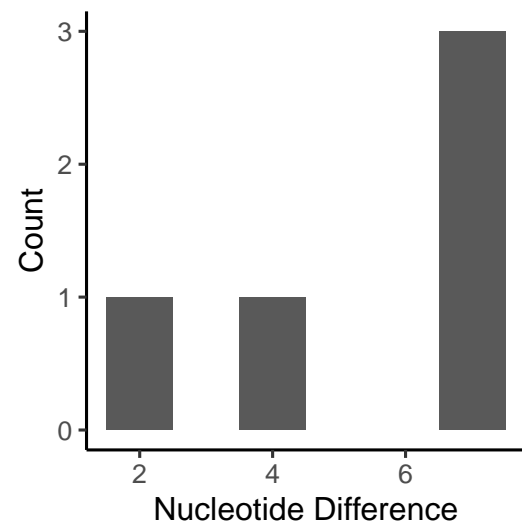
IGHV4-39*02

2269 sequences assigned
No exact matches.



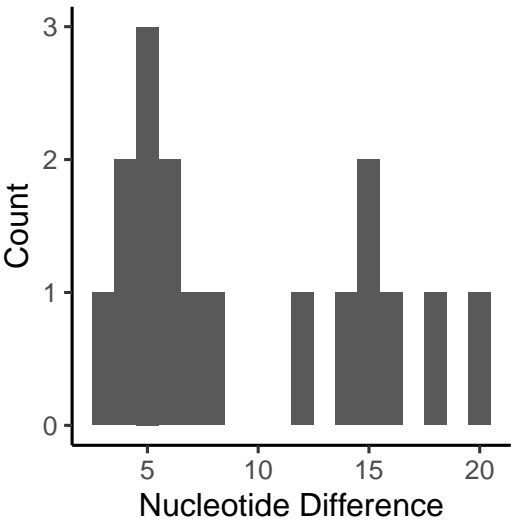
IGHV4-61*01

7 sequences assigned
No exact matches.



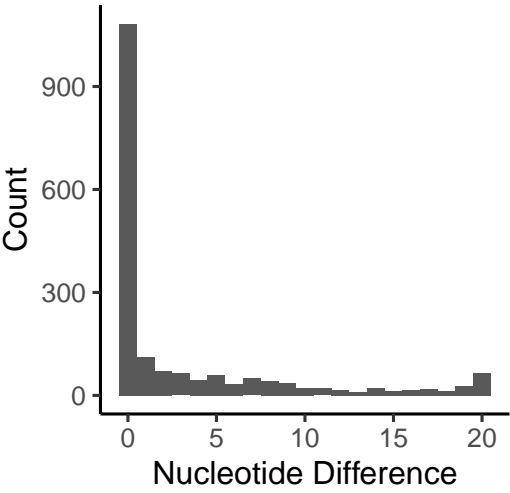
IGHV4-61*08

17 sequences assigned
No exact matches.



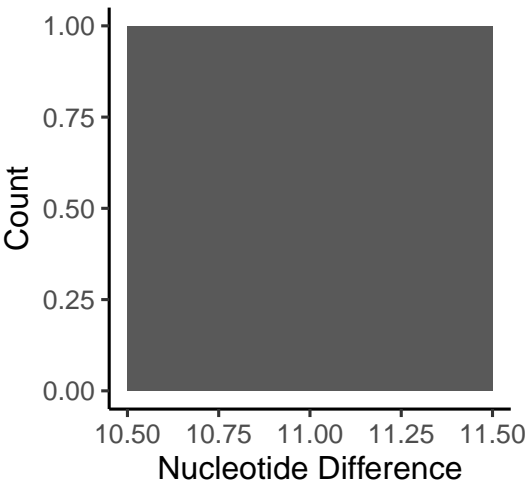
IGHV5-51*07_A128G

2191 sequences assigned
1083 (49.4%) exact matches, in which:
872 unique CDR3
6 unique J



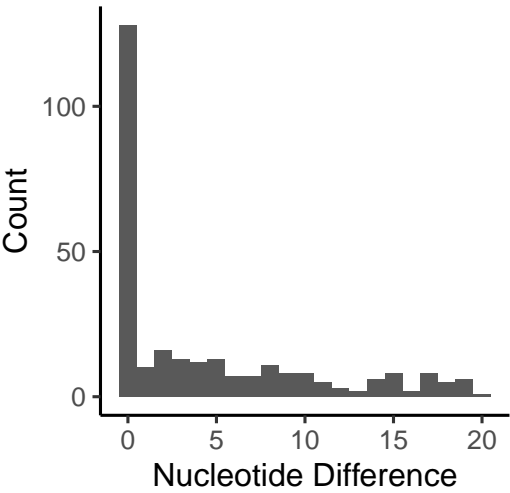
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



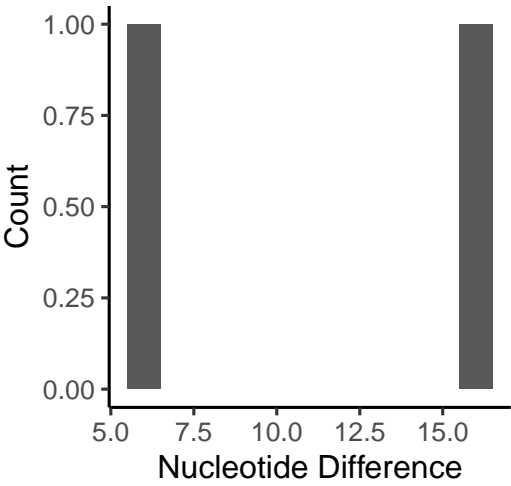
IGHV6-1*01_02

308 sequences assigned
128 (41.6%) exact matches, in which:
127 unique CDR3
6 unique J



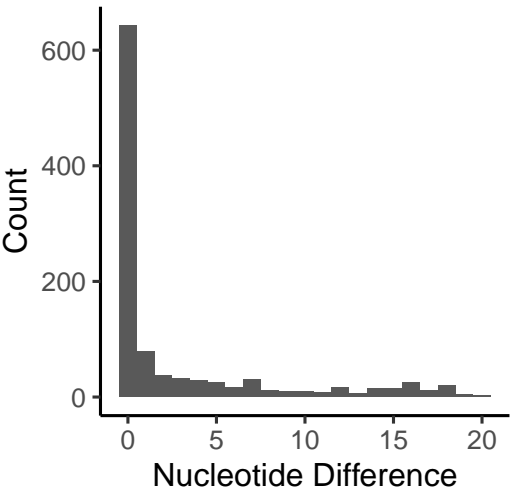
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



IGHV7-4-1*02

1055 sequences assigned
643 (60.9%) exact matches, in which:
641 unique CDR3
6 unique J





Warning – no inferred sequences found.