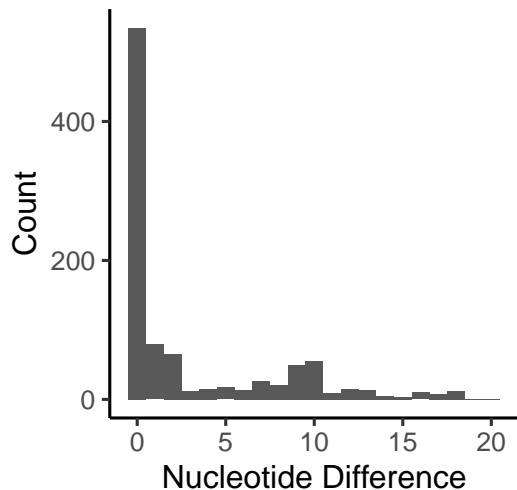


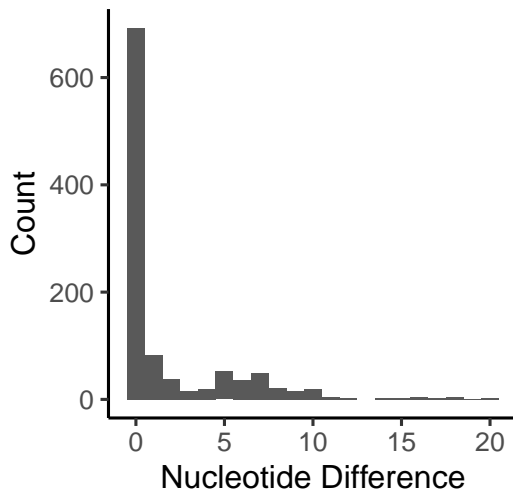
IGHV1-2*02

1221 sequences assigned
535 (43.8%) exact matches, in which:
526 unique CDR3
6 unique J



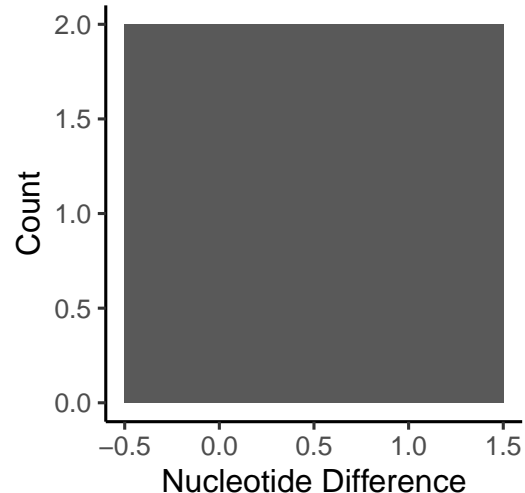
IGHV1-8*01

1077 sequences assigned
693 (64.3%) exact matches, in which:
675 unique CDR3
6 unique J



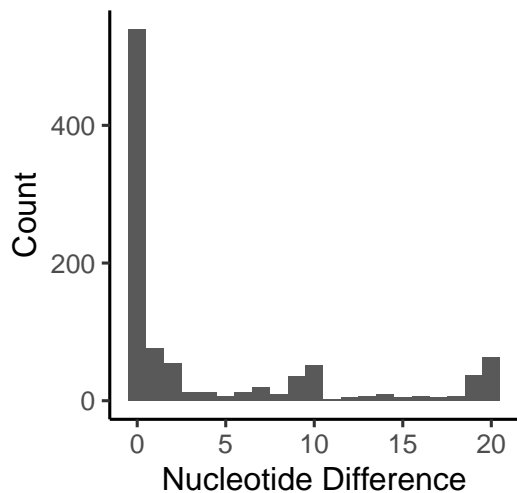
IGHV1-45*02

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



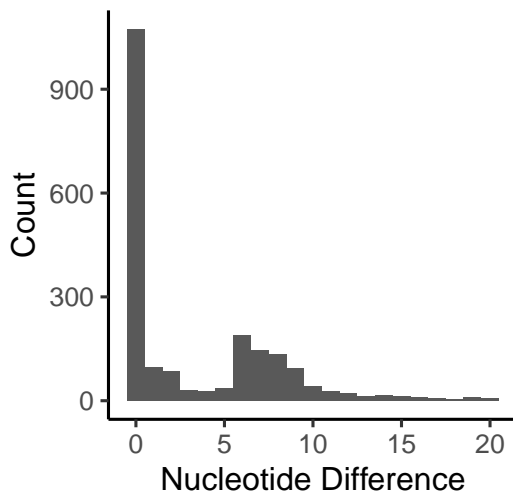
IGHV1-2*06

1053 sequences assigned
540 (51.3%) exact matches, in which:
535 unique CDR3
6 unique J



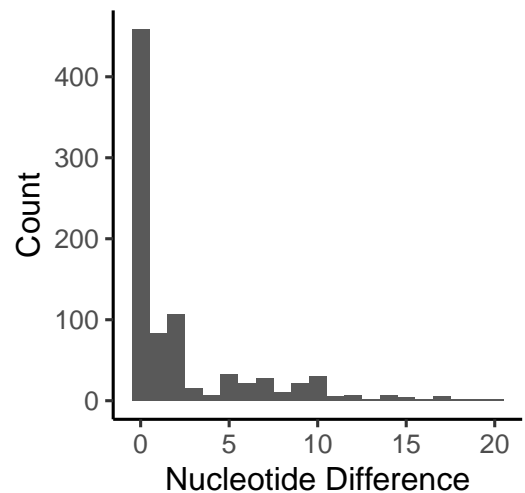
IGHV1-18*01

2274 sequences assigned
1074 (47.2%) exact matches, in which:
1050 unique CDR3
6 unique J



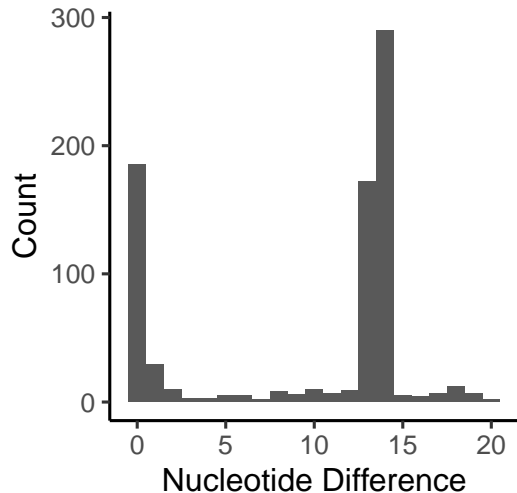
IGHV1-46*01

1354 sequences assigned
459 (33.9%) exact matches, in which:
451 unique CDR3
6 unique J



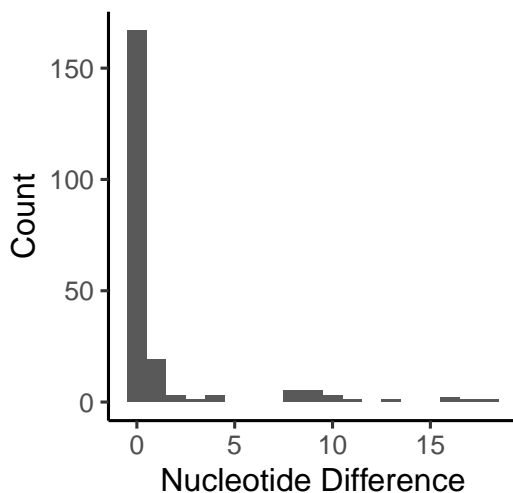
IGHV1-3*01_05

803 sequences assigned
185 (23%) exact matches, in which:
181 unique CDR3
6 unique J



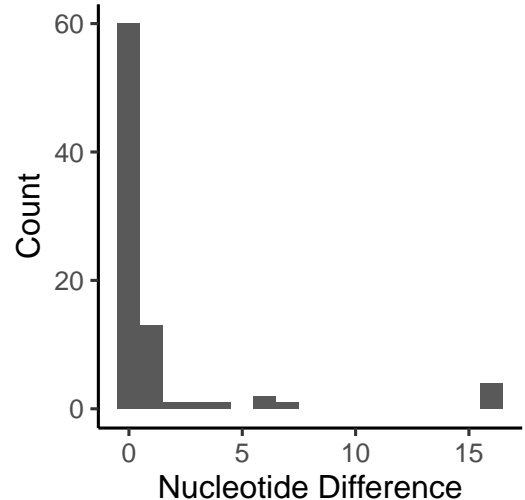
IGHV1-24*01

215 sequences assigned
167 (77.7%) exact matches, in which:
164 unique CDR3
6 unique J



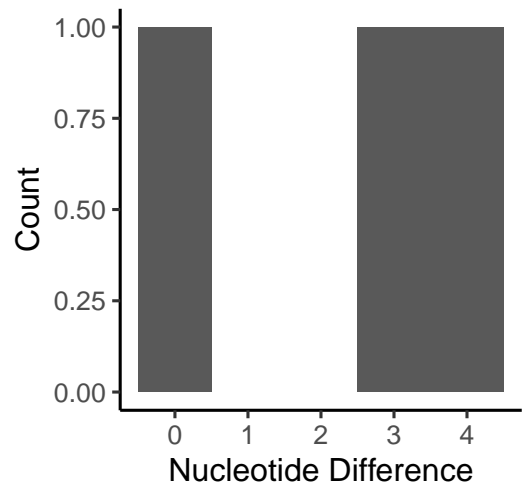
IGHV1-58*01_03

84 sequences assigned
60 (71.4%) exact matches, in which:
59 unique CDR3
6 unique J



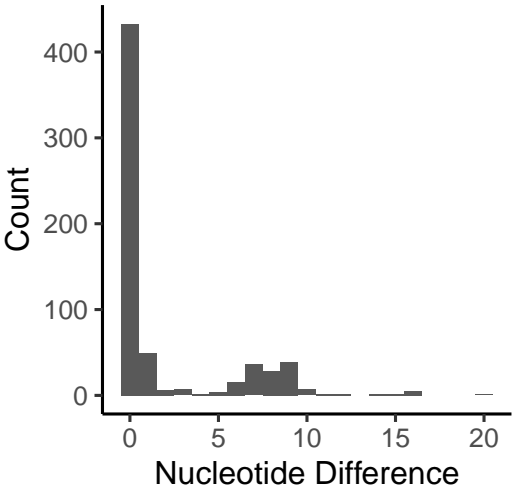
IGHV1-68*01

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



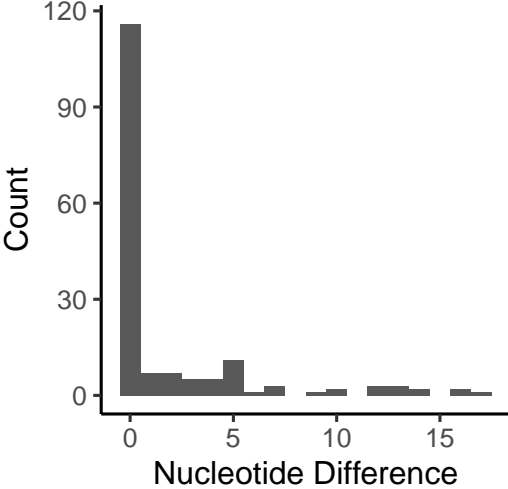
IGHV1-69*06_14

643 sequences assigned
433 (67.3%) exact matches, in which:
428 unique CDR3
6 unique J



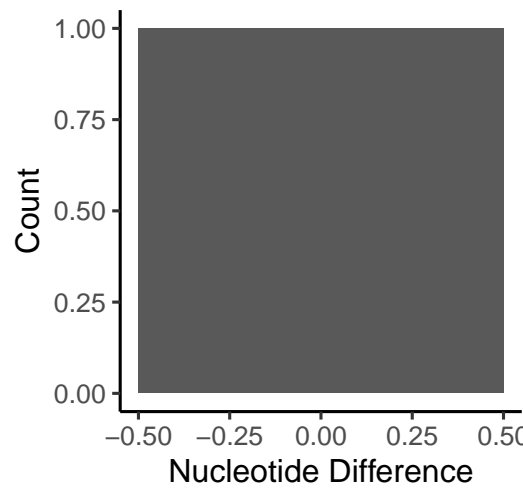
IGHV2-5*02

174 sequences assigned
116 (66.7%) exact matches, in which:
112 unique CDR3
6 unique J



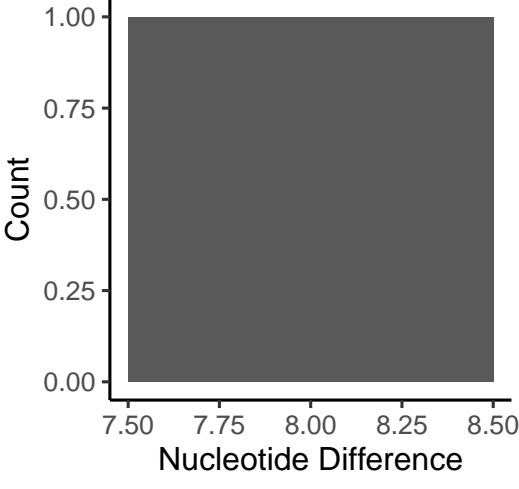
IGHV1-69-2*01

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



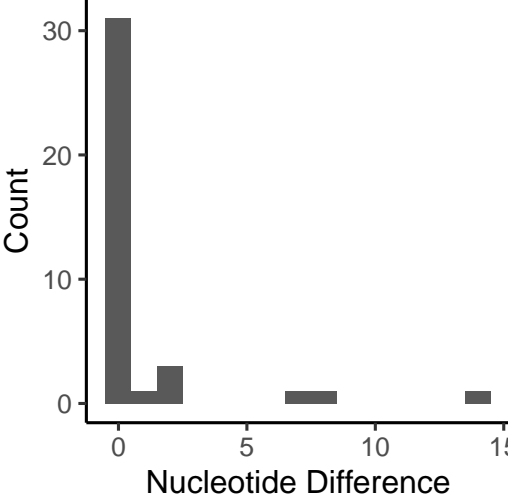
IGHV1-NL1*01

1 sequences assigned
No exact matches.



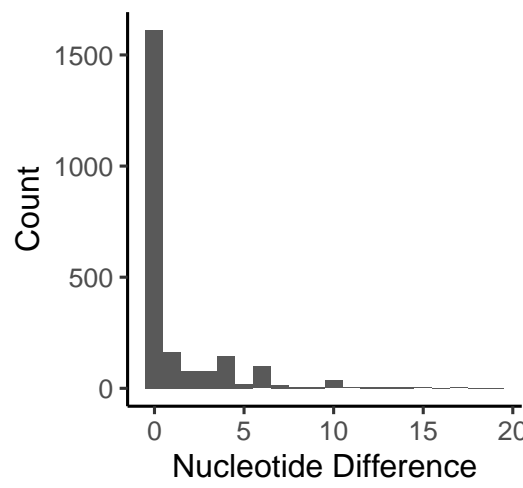
IGHV2-26*01

38 sequences assigned
31 (81.6%) exact matches, in which:
31 unique CDR3
6 unique J



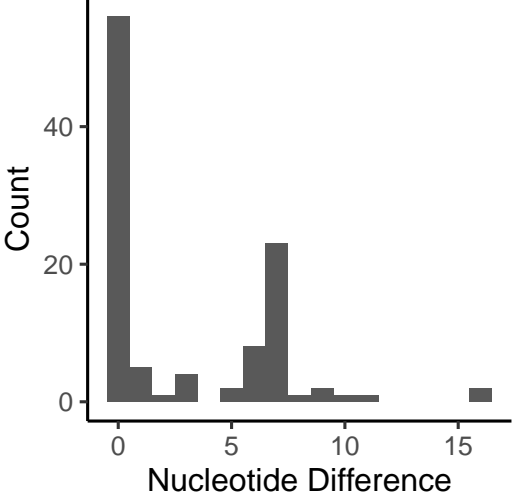
IGHV1-69*01_12_13

2307 sequences assigned
1612 (69.9%) exact matches, in which:
1586 unique CDR3
6 unique J



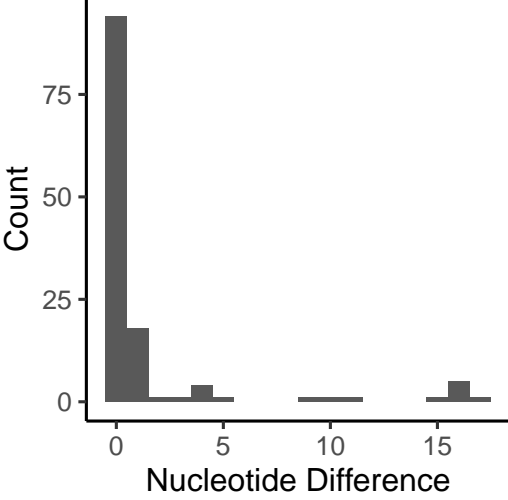
IGHV2-5*01

106 sequences assigned
56 (52.8%) exact matches, in which:
56 unique CDR3
5 unique J



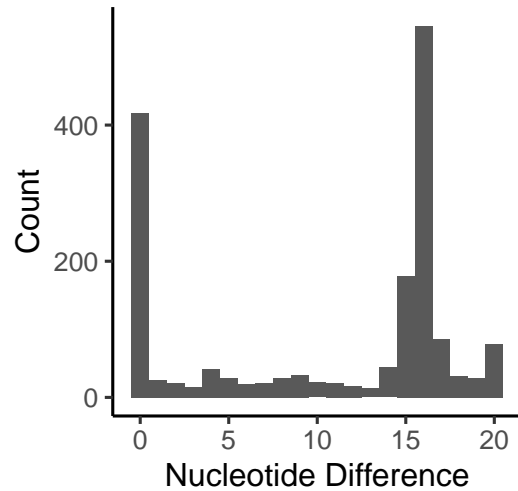
IGHV2-70*01

129 sequences assigned
94 (72.9%) exact matches, in which:
91 unique CDR3
6 unique J



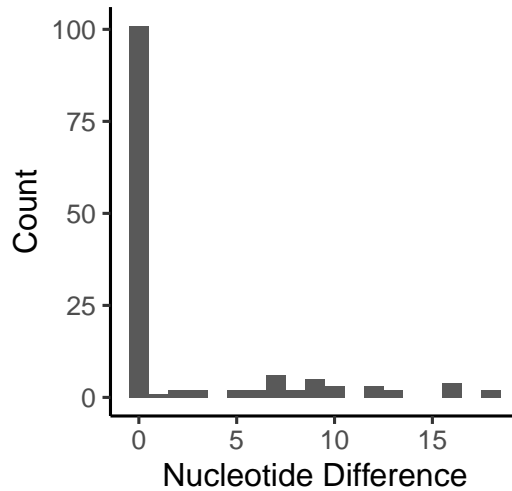
IGHV3-7*01

1918 sequences assigned
418 (21.8%) exact matches, in which:
277 unique CDR3
6 unique J



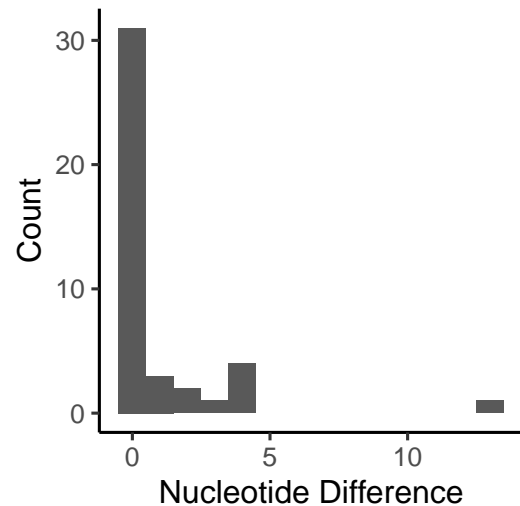
IGHV3-13*01

137 sequences assigned
101 (73.7%) exact matches, in which:
58 unique CDR3
5 unique J



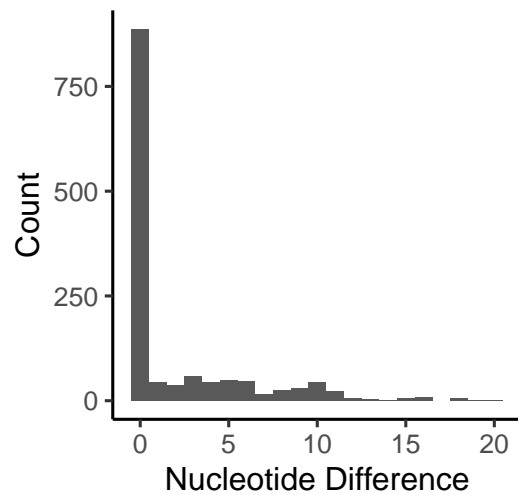
IGHV3-20*01_02

43 sequences assigned
31 (72.1%) exact matches, in which:
21 unique CDR3
6 unique J



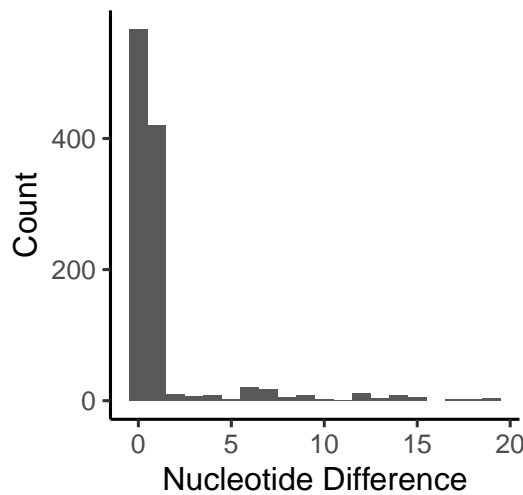
IGHV3-9*01

1420 sequences assigned
887 (62.5%) exact matches, in which:
531 unique CDR3
6 unique J



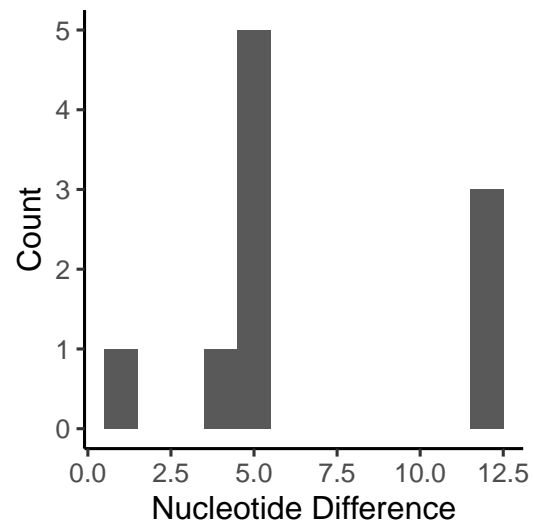
IGHV3-15*01_02

1121 sequences assigned
567 (50.6%) exact matches, in which:
325 unique CDR3
6 unique J



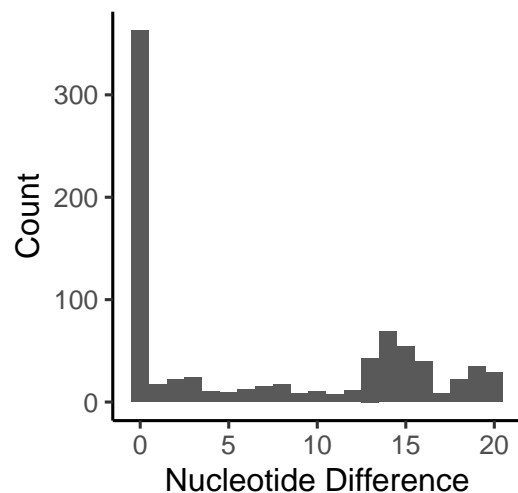
IGHV3-20*03_04

10 sequences assigned
No exact matches.



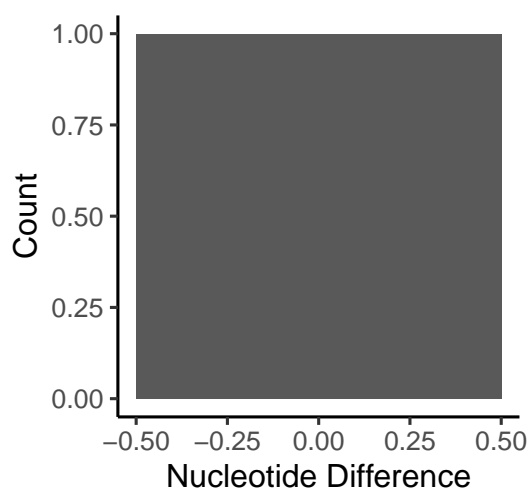
IGHV3-11*01

1236 sequences assigned
363 (29.4%) exact matches, in which:
229 unique CDR3
6 unique J



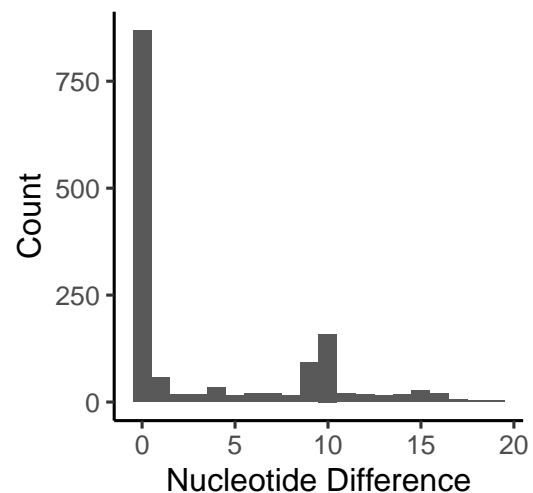
IGHV3-19*01

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



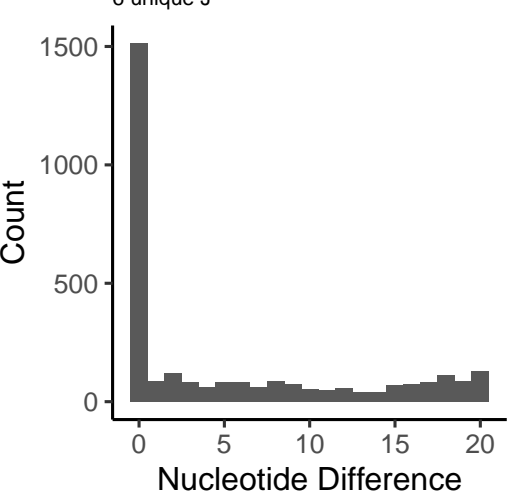
IGHV3-21*01_02

1468 sequences assigned
869 (59.2%) exact matches, in which:
522 unique CDR3
6 unique J



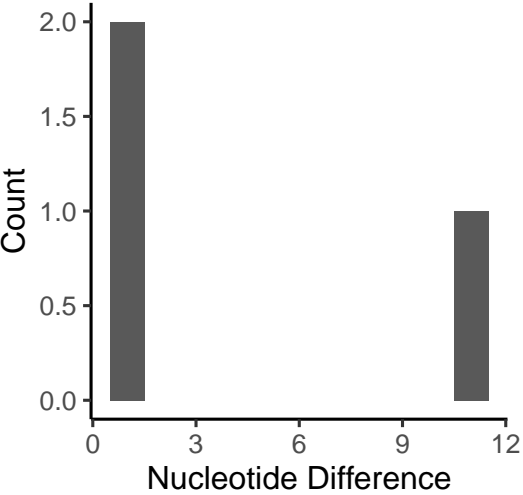
IGHV3-23*01_04

3455 sequences assigned
1513 (43.8%) exact matches, in which:
904 unique CDR3
6 unique J



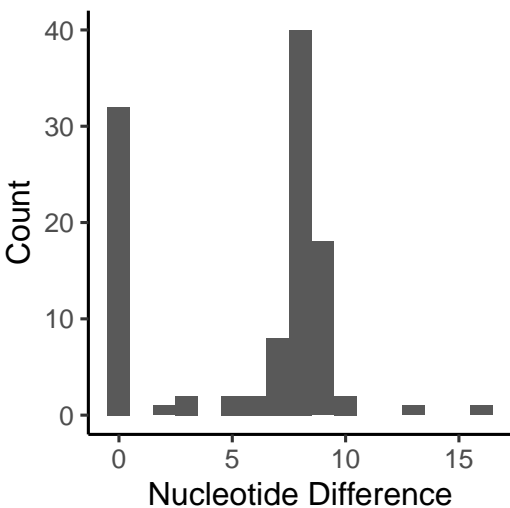
IGHV3-30-3*03

3 sequences assigned
No exact matches.



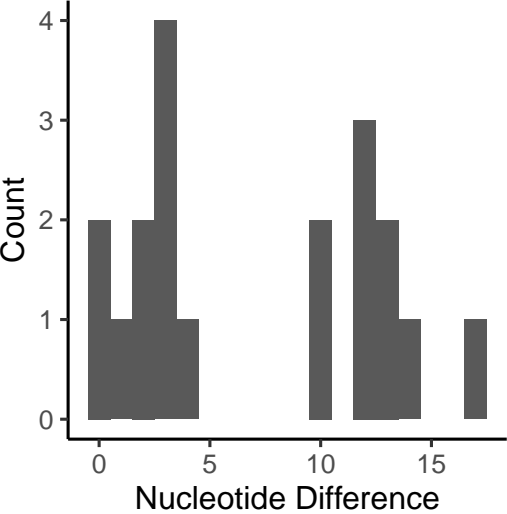
IGHV3-43*01

109 sequences assigned
32 (29.4%) exact matches, in which:
20 unique CDR3
2 unique J



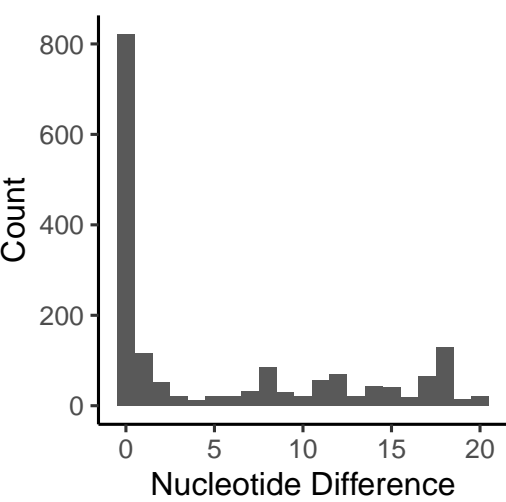
IGHV3-30-5*01

19 sequences assigned
2 (10.5%) exact matches, in which:
1 unique CDR3
1 unique J



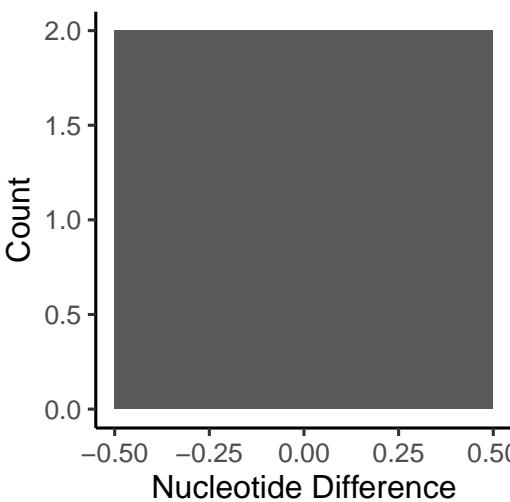
IGHV3-33*01

1753 sequences assigned
822 (46.9%) exact matches, in which:
528 unique CDR3
6 unique J



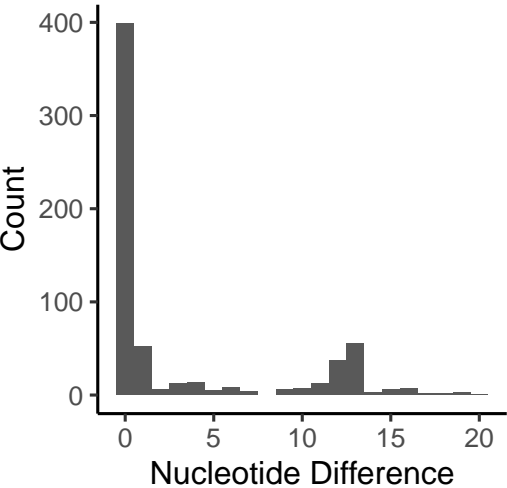
IGHV3-47*01

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



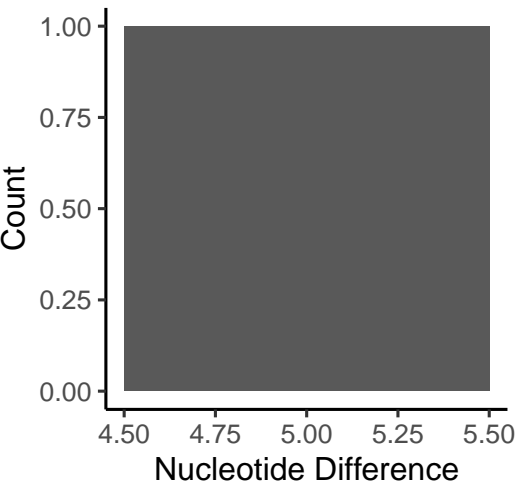
IGHV3-30*03

650 sequences assigned
399 (61.4%) exact matches, in which:
261 unique CDR3
4 unique J



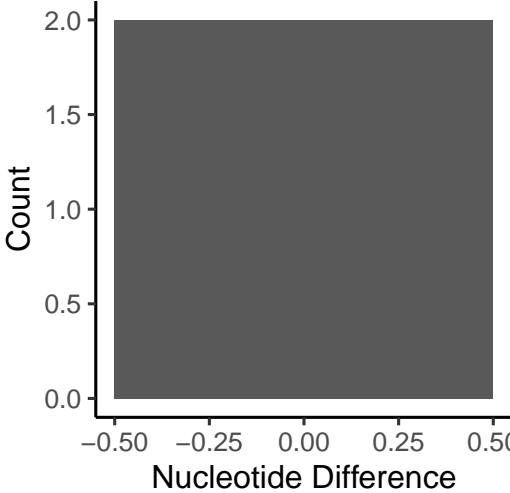
IGHV3-35*01

1 sequences assigned
No exact matches.



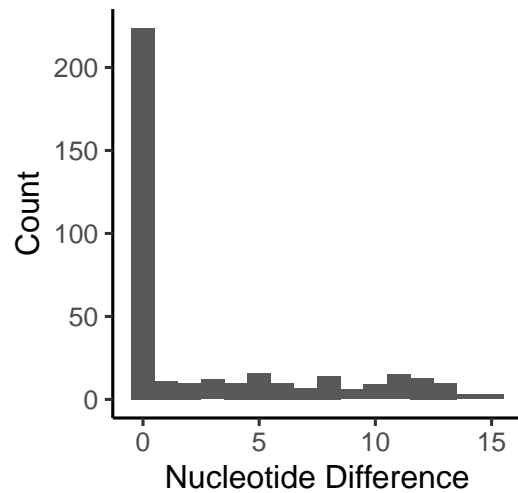
IGHV3-47*02

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



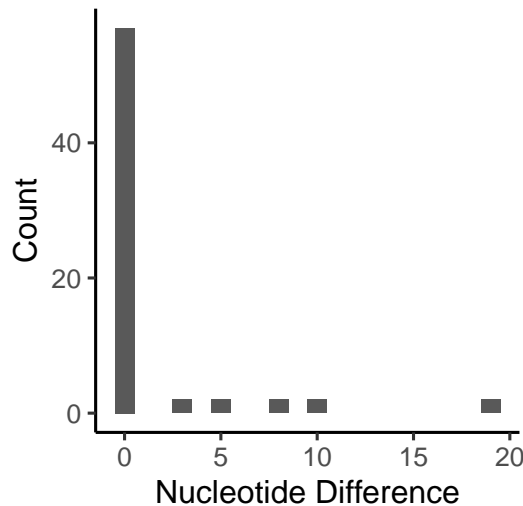
IGHV3-48*02

380 sequences assigned
224 (58.9%) exact matches, in which:
138 unique CDR3
5 unique J



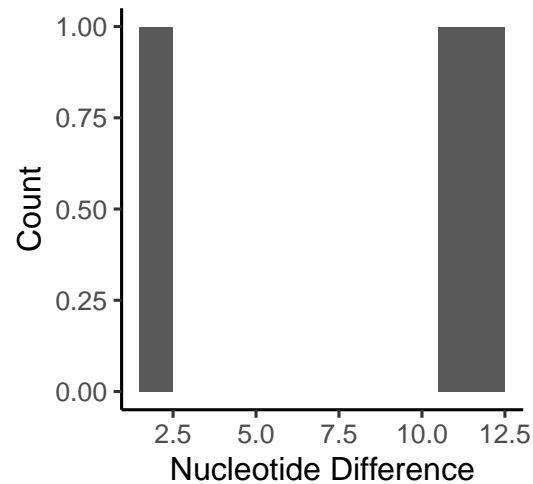
IGHV3-49*03_05

68 sequences assigned
57 (83.8%) exact matches, in which:
35 unique CDR3
4 unique J



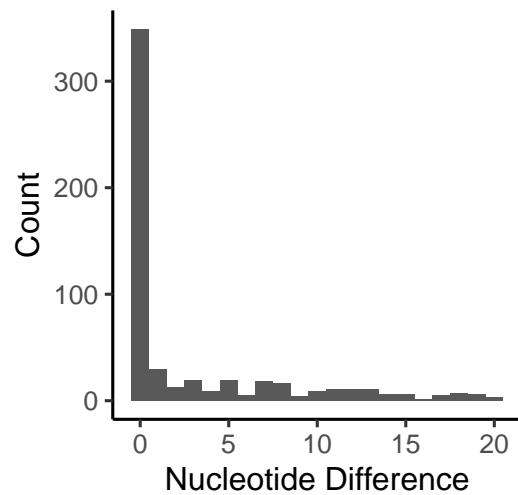
IGHV3-66*03

3 sequences assigned
No exact matches.



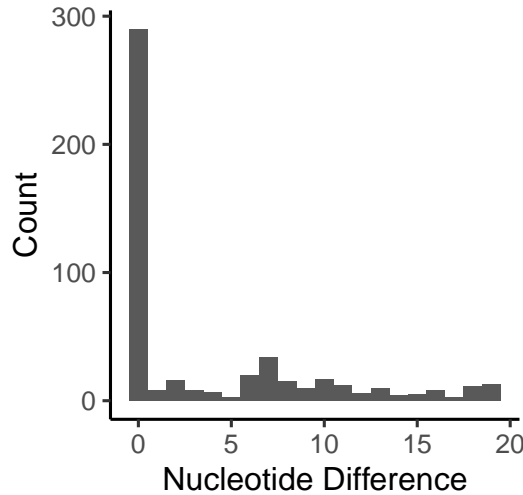
IGHV3-48*03

1418 sequences assigned
349 (24.6%) exact matches, in which:
230 unique CDR3
6 unique J



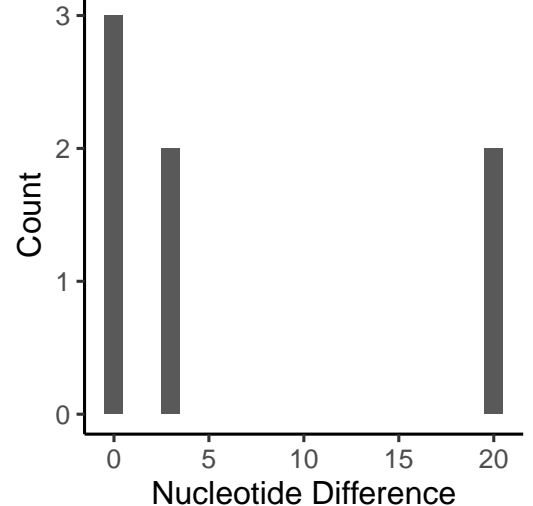
IGHV3-53*01_02

570 sequences assigned
290 (50.9%) exact matches, in which:
173 unique CDR3
6 unique J



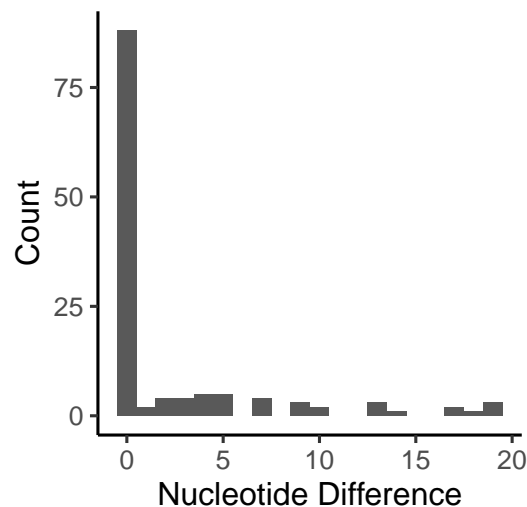
IGHV3-69-1*01

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



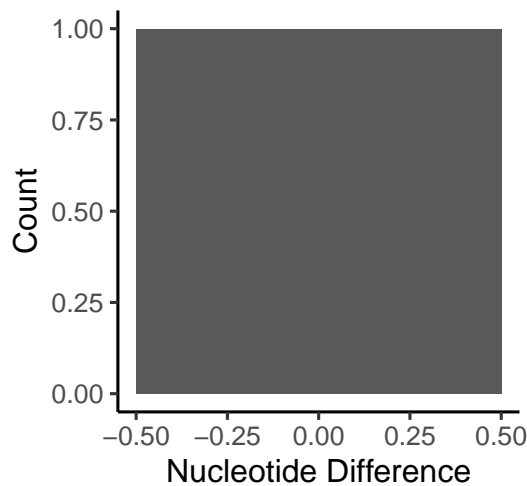
IGHV3-49*04

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



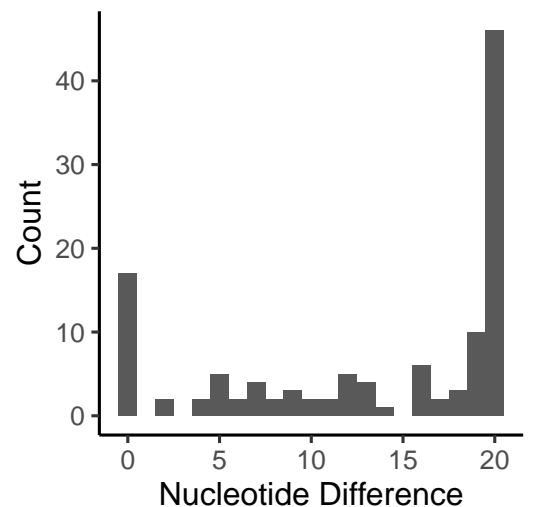
IGHV3-64*02_07

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



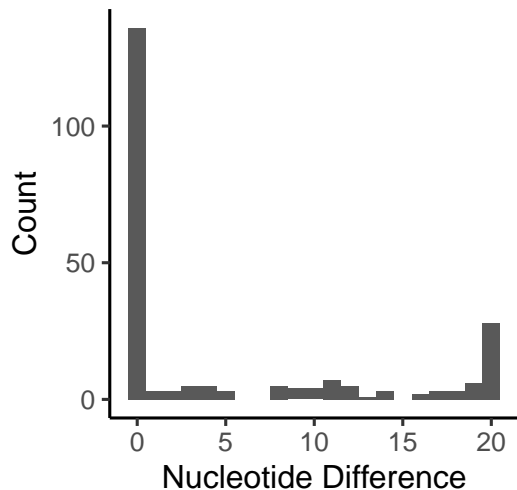
IGHV3-72*01

363 sequences assigned
17 (4.7%) exact matches, in which:
10 unique CDR3
4 unique J



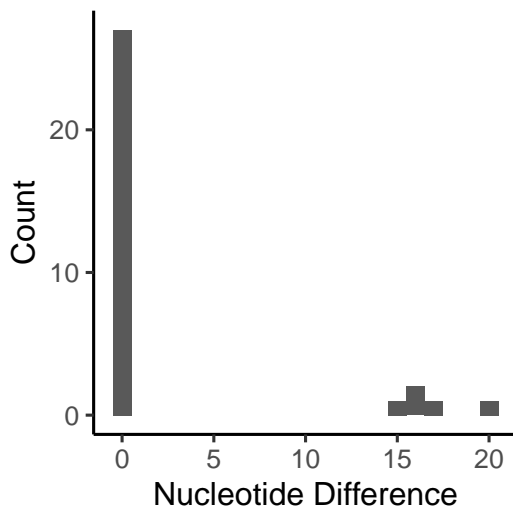
IGHV3-73*01_02

301 sequences assigned
136 (45.2%) exact matches, in which:
83 unique CDR3
5 unique J



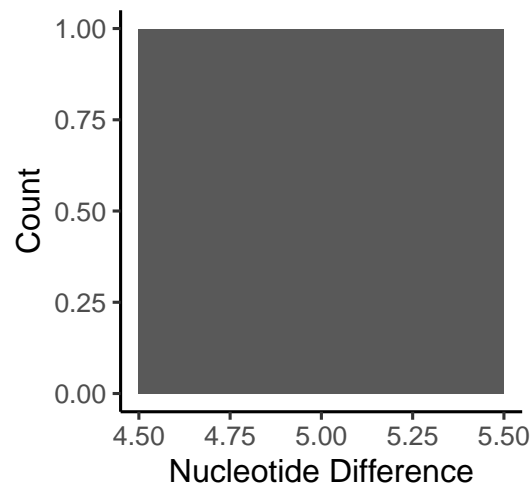
IGHV3-43D*04

33 sequences assigned
27 (81.8%) exact matches, in which:
16 unique CDR3
3 unique J



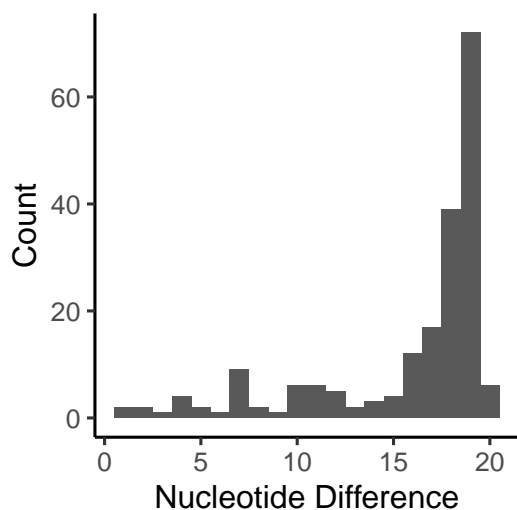
IGHV4-30-2*03

1 sequences assigned
No exact matches.



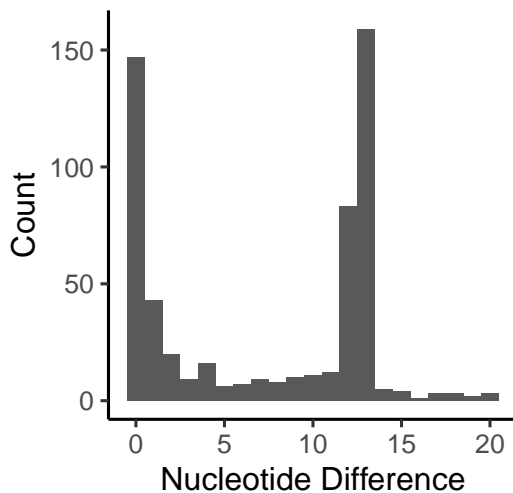
IGHV3-74*03

215 sequences assigned
No exact matches.



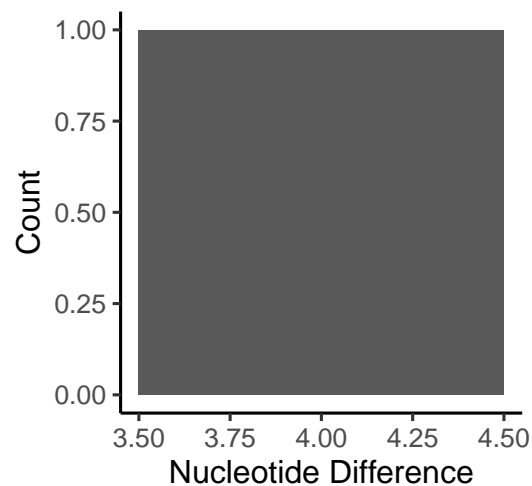
IGHV4-4*07

567 sequences assigned
147 (25.9%) exact matches, in which:
139 unique CDR3
6 unique J



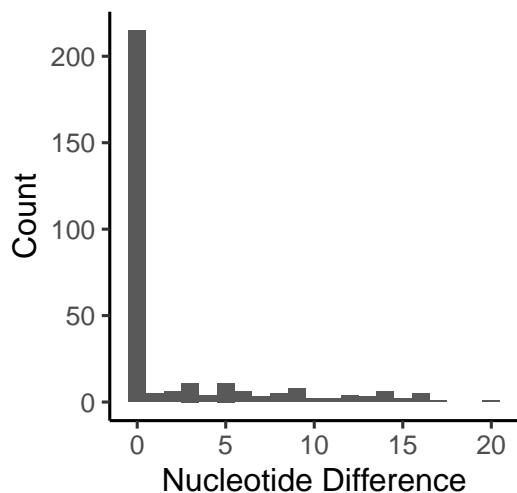
IGHV4-30-4*05

1 sequences assigned
No exact matches.



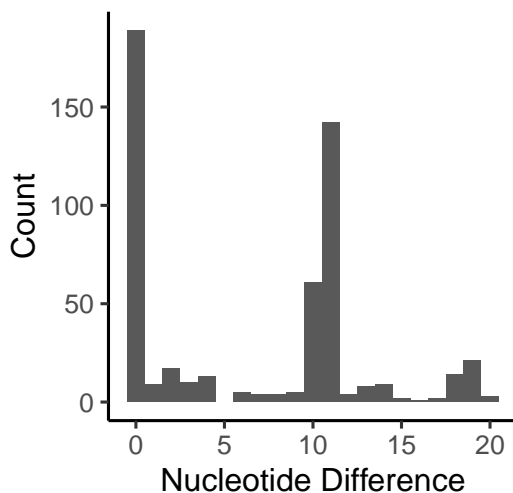
IGHV3-74*01_02

322 sequences assigned
215 (66.8%) exact matches, in which:
125 unique CDR3
5 unique J



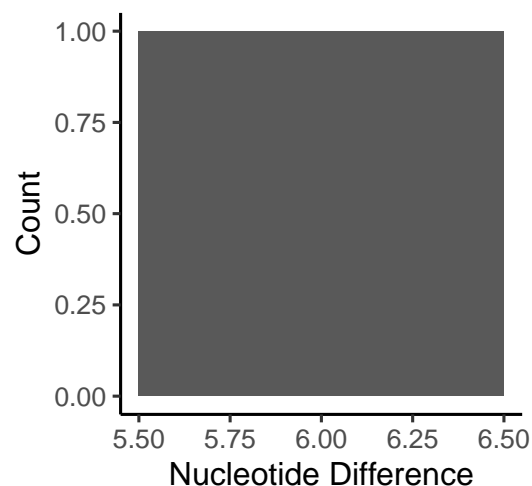
IGHV4-4*02_03

527 sequences assigned
189 (35.9%) exact matches, in which:
174 unique CDR3
6 unique J



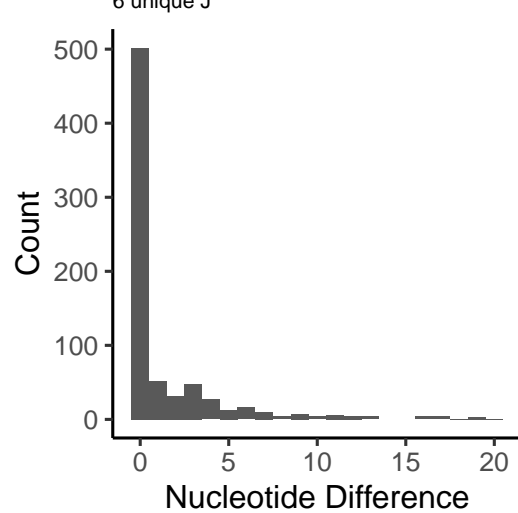
IGHV4-30-4*08

1 sequences assigned
No exact matches.



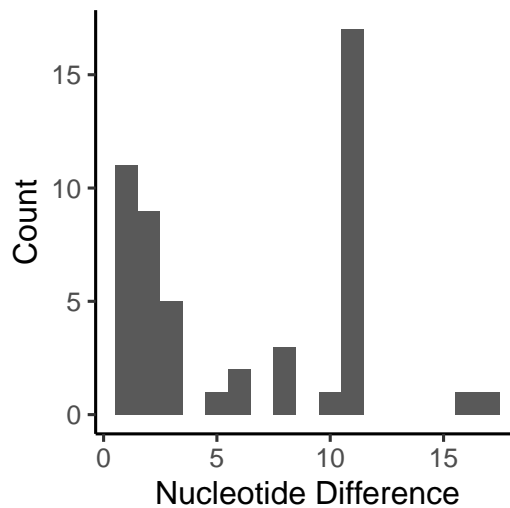
IGHV4-31*02

761 sequences assigned
502 (66%) exact matches, in which:
493 unique CDR3
6 unique J



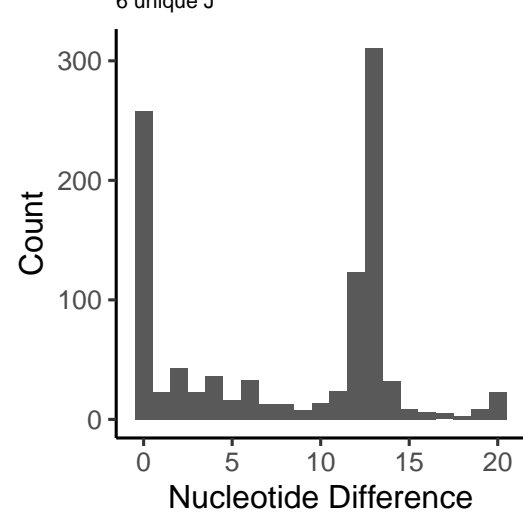
IGHV4-39*07

52 sequences assigned
No exact matches.



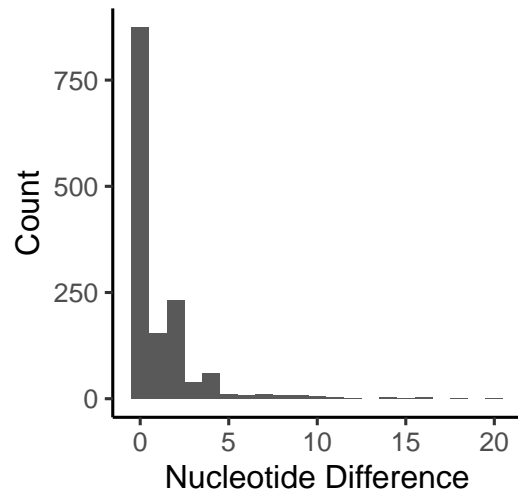
IGHV4-61*01

1379 sequences assigned
258 (18.7%) exact matches, in which:
255 unique CDR3
6 unique J



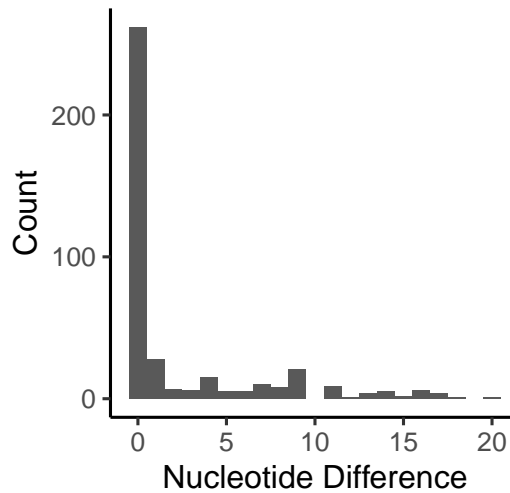
IGHV4-34*01_02

1436 sequences assigned
875 (60.9%) exact matches, in which:
808 unique CDR3
6 unique J



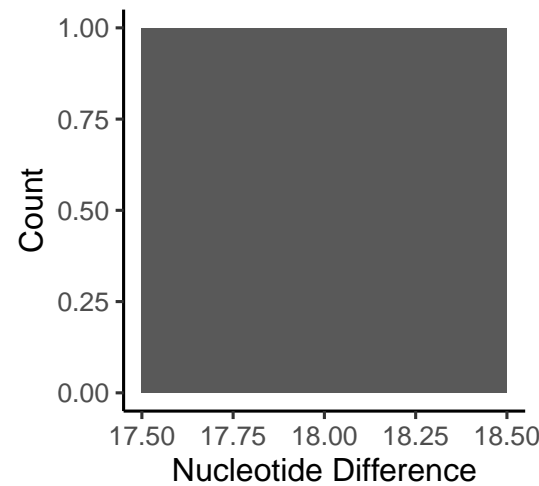
IGHV4-39*02_C258G

407 sequences assigned
262 (64.4%) exact matches, in which:
246 unique CDR3
6 unique J



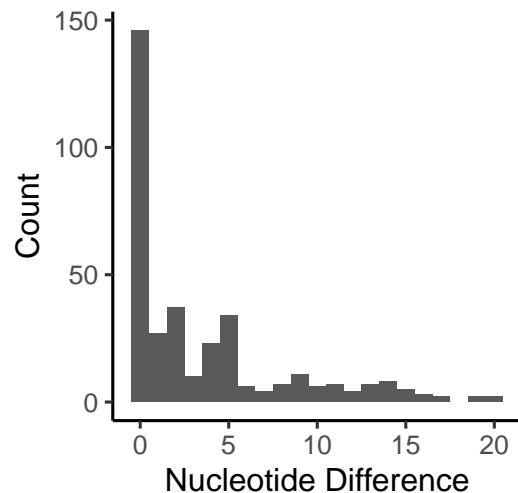
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



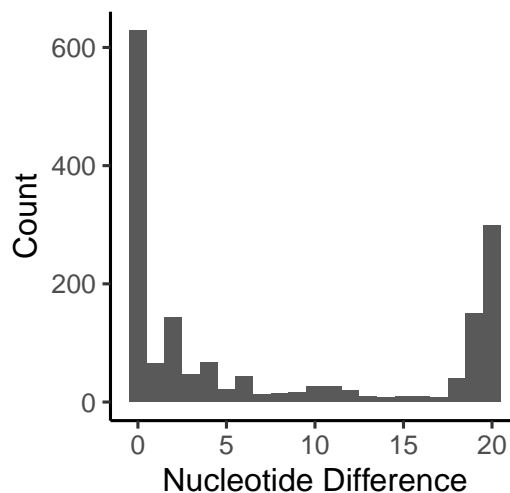
IGHV4-38-2*02_A70G

361 sequences assigned
146 (40.4%) exact matches, in which:
133 unique CDR3
6 unique J



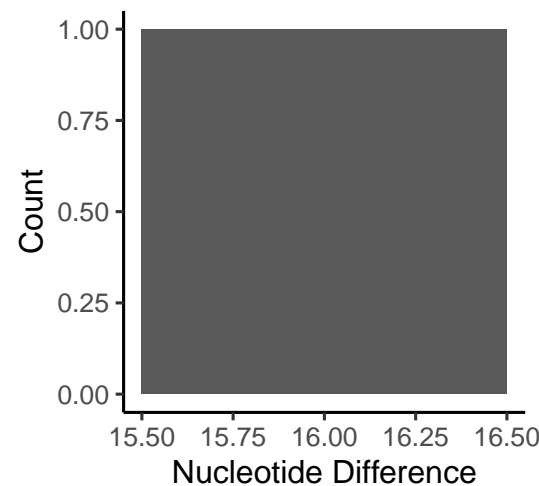
IGHV4-59*02_G88A

1826 sequences assigned
629 (34.4%) exact matches, in which:
614 unique CDR3
6 unique J



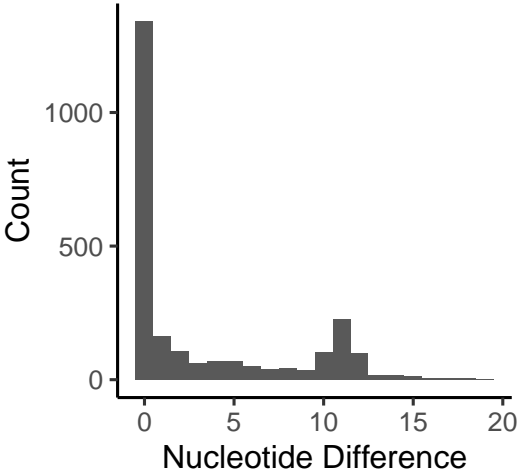
IGHV5-10-1*01_03

1 sequences assigned
No exact matches.



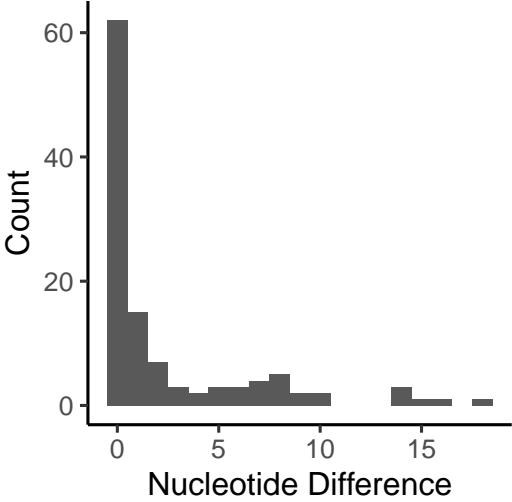
IGHV5-51*07_A128G

2588 sequences assigned
1341 (51.8%) exact matches, in which:
821 unique CDR3
6 unique J



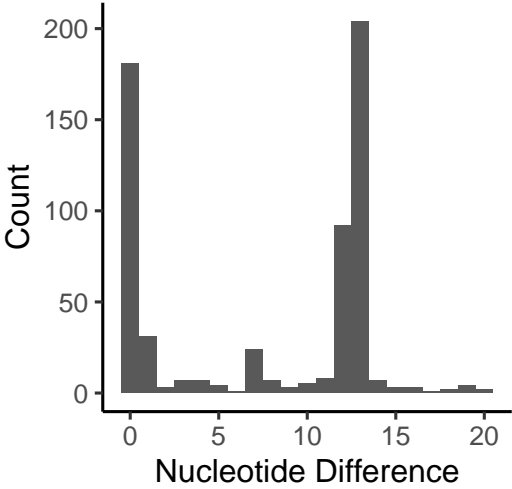
IGHV6-1*01_02

114 sequences assigned
62 (54.4%) exact matches, in which:
61 unique CDR3
5 unique J



IGHV7-4-1*02

605 sequences assigned
181 (29.9%) exact matches, in which:
176 unique CDR3
6 unique J





Warning – no inferred sequences found.