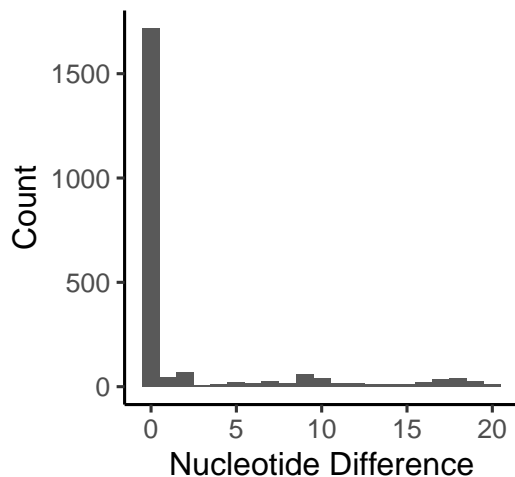


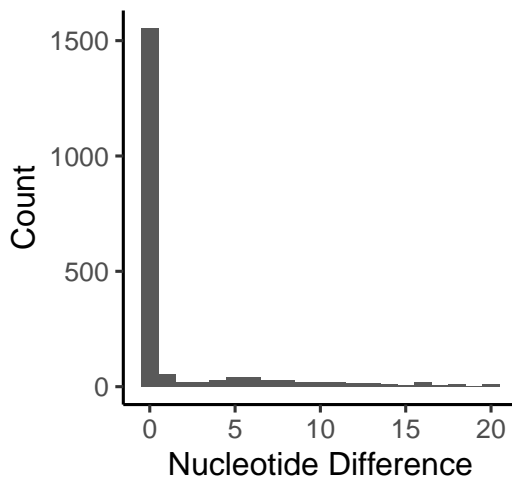
IGHV1-2*02

2394 sequences assigned
1717 (71.7%) exact matches, in which:
1712 unique CDR3
6 unique J



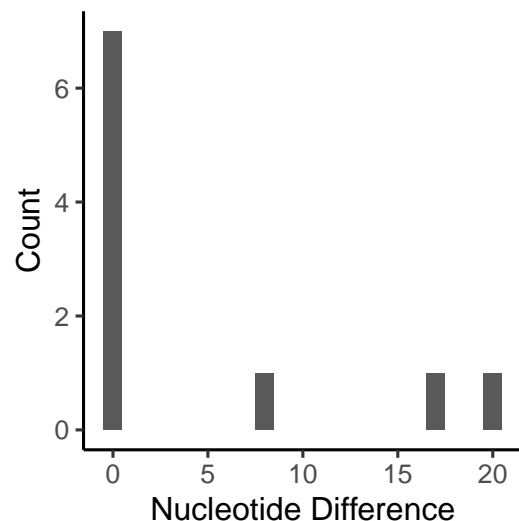
IGHV1-8*01

2114 sequences assigned
1553 (73.5%) exact matches, in which:
1550 unique CDR3
6 unique J



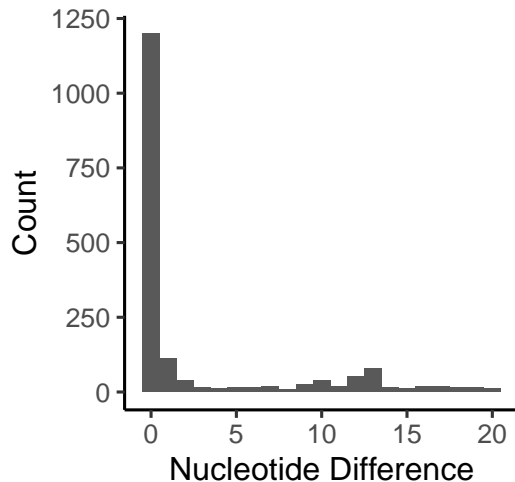
IGHV1-45*02

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



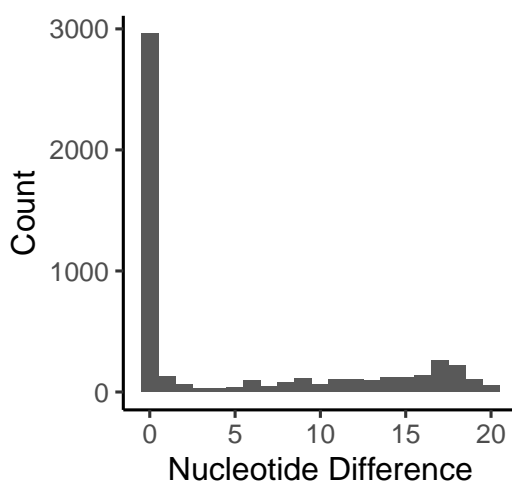
IGHV1-2*06

1872 sequences assigned
1199 (64%) exact matches, in which:
1176 unique CDR3
6 unique J



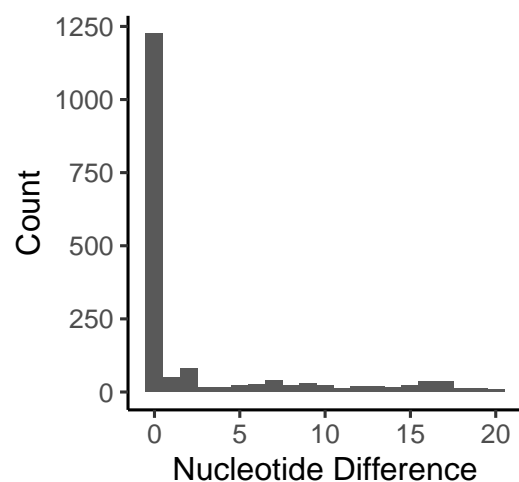
IGHV1-18*01

5245 sequences assigned
2960 (56.4%) exact matches, in which:
2930 unique CDR3
6 unique J



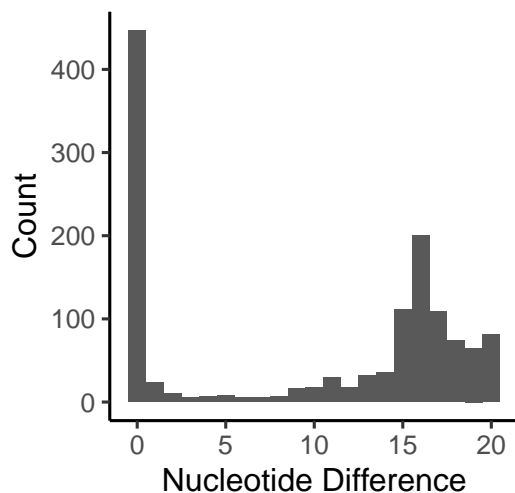
IGHV1-46*01

1824 sequences assigned
1225 (67.2%) exact matches, in which:
1223 unique CDR3
6 unique J



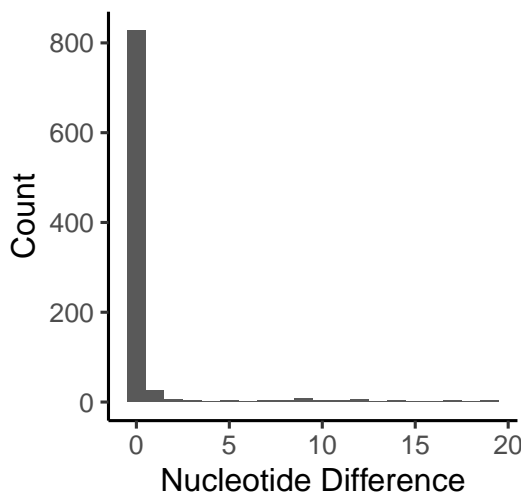
IGHV1-3*01_05

2115 sequences assigned
447 (21.1%) exact matches, in which:
439 unique CDR3
6 unique J



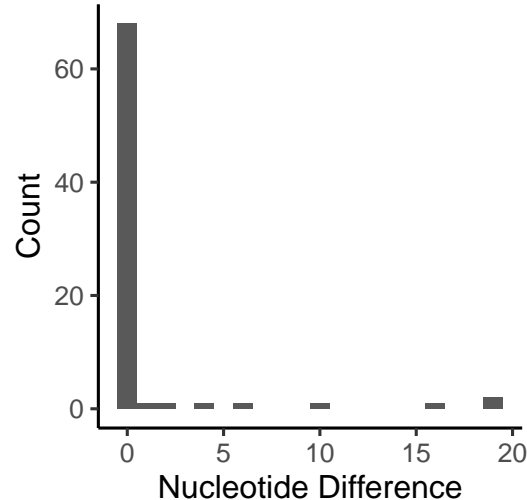
IGHV1-24*01

919 sequences assigned
828 (90.1%) exact matches, in which:
822 unique CDR3
6 unique J



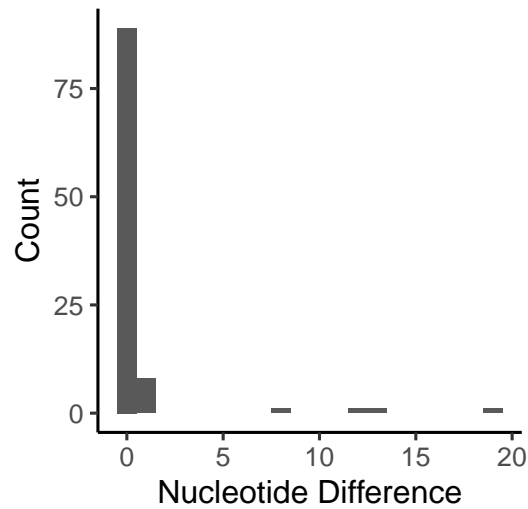
IGHV1-58*02

76 sequences assigned
68 (89.5%) exact matches, in which:
68 unique CDR3
6 unique J



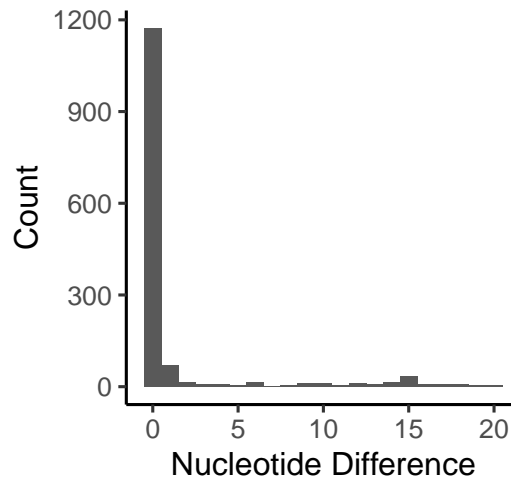
IGHV1-58*01_03

111 sequences assigned
89 (80.2%) exact matches, in which:
89 unique CDR3
5 unique J



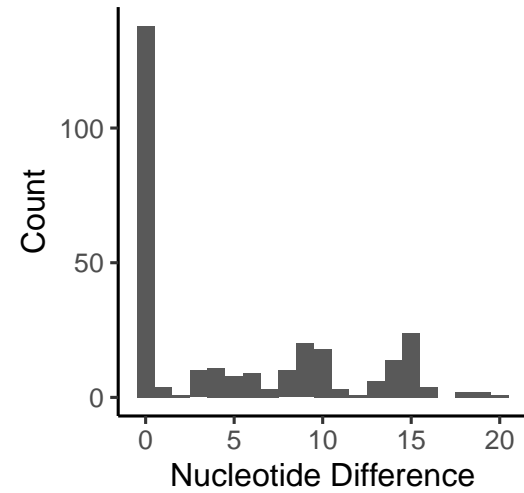
IGHV1-69*01_12_13

1484 sequences assigned
1172 (79%) exact matches, in which:
1170 unique CDR3
6 unique J



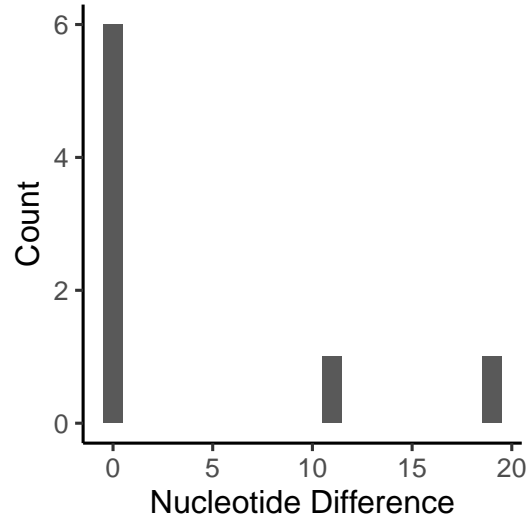
IGHV2-5*01

294 sequences assigned
138 (46.9%) exact matches, in which:
138 unique CDR3
6 unique J



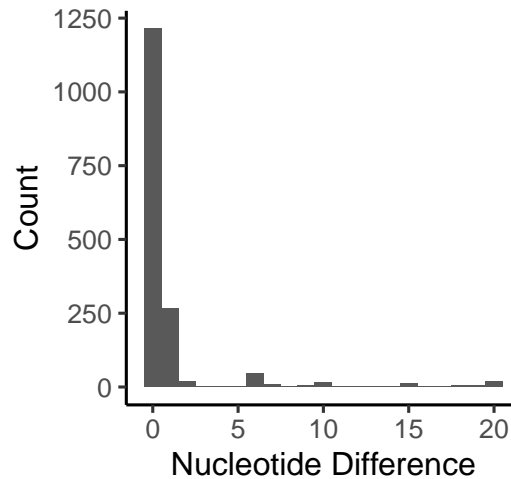
IGHV1-69-2*01

9 sequences assigned
6 (66.7%) exact matches, in which:
6 unique CDR3
2 unique J



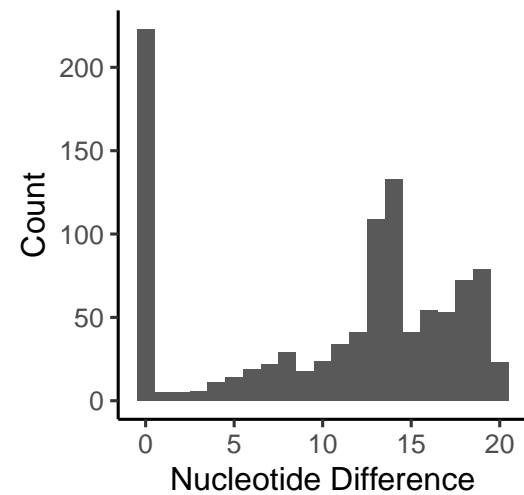
IGHV1-69*04_09

1687 sequences assigned
1214 (72%) exact matches, in which:
1212 unique CDR3
6 unique J



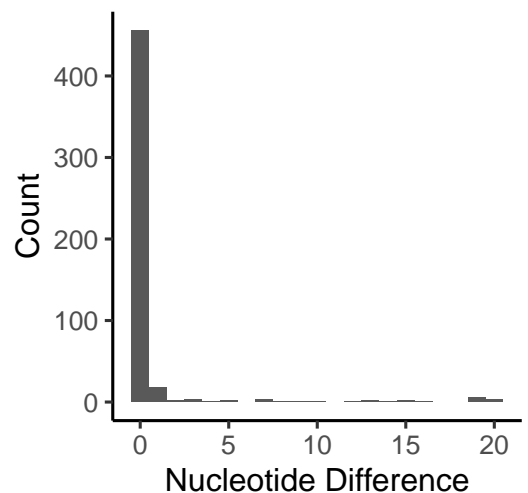
IGHV2-5*02

1082 sequences assigned
223 (20.6%) exact matches, in which:
222 unique CDR3
6 unique J



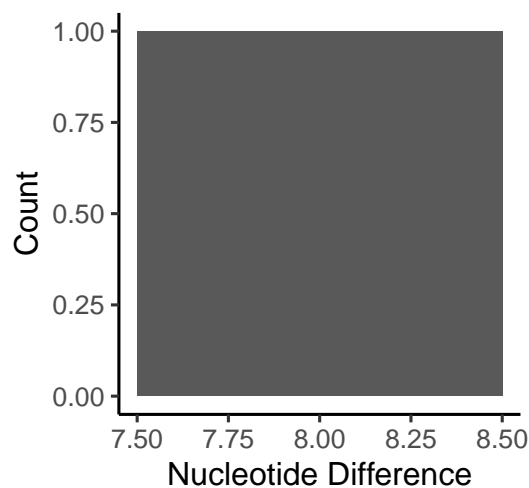
IGHV1-69*02

558 sequences assigned
456 (81.7%) exact matches, in which:
455 unique CDR3
6 unique J



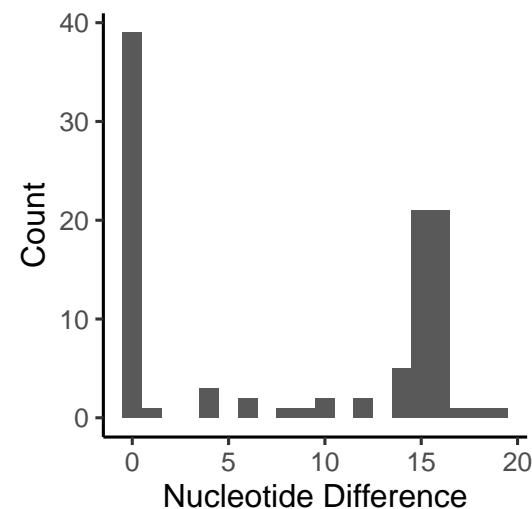
IGHV1-NL1*01

1 sequences assigned
No exact matches.



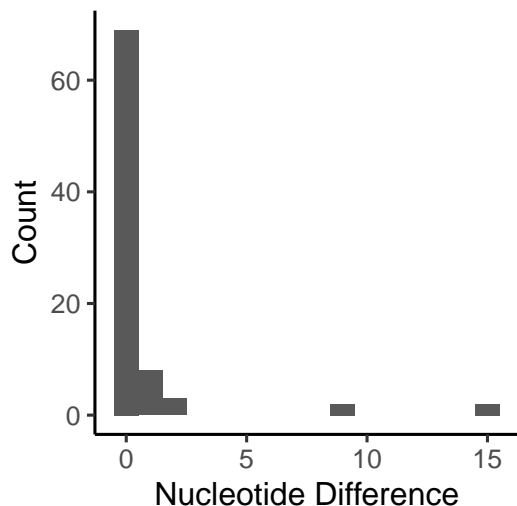
IGHV2-26*01

106 sequences assigned
39 (36.8%) exact matches, in which:
39 unique CDR3
4 unique J



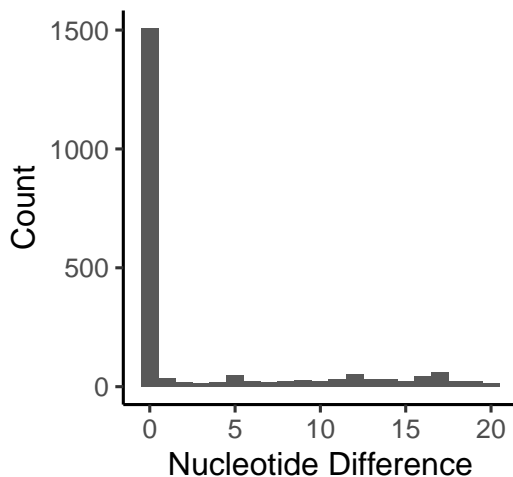
IGHV2-70*01

88 sequences assigned
69 (78.4%) exact matches, in which:
68 unique CDR3
6 unique J



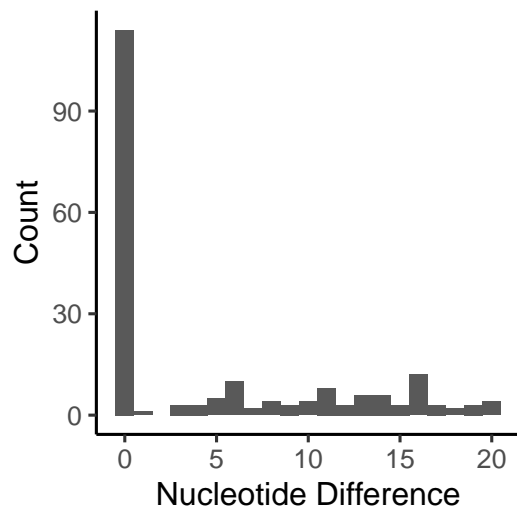
IGHV3-9*01_A104G

2270 sequences assigned
1507 (66.4%) exact matches, in which:
1274 unique CDR3
6 unique J



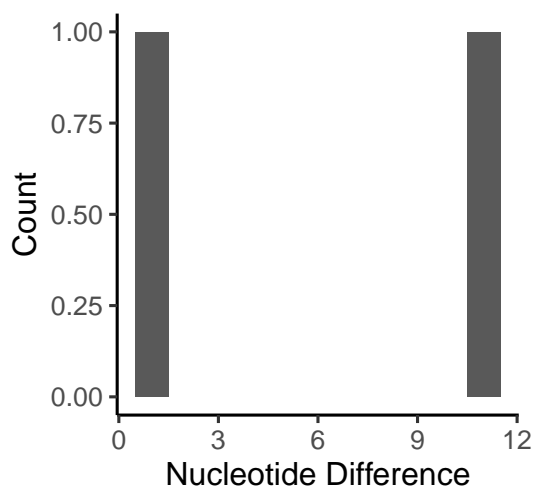
IGHV3-15*01_02

288 sequences assigned
114 (39.6%) exact matches, in which:
95 unique CDR3
5 unique J



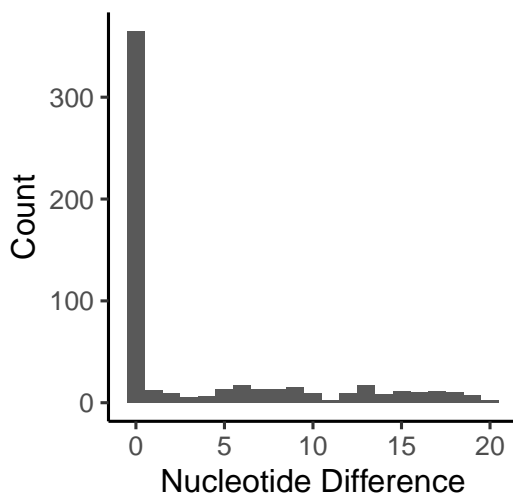
IGHV2-70D*04

2 sequences assigned
No exact matches.



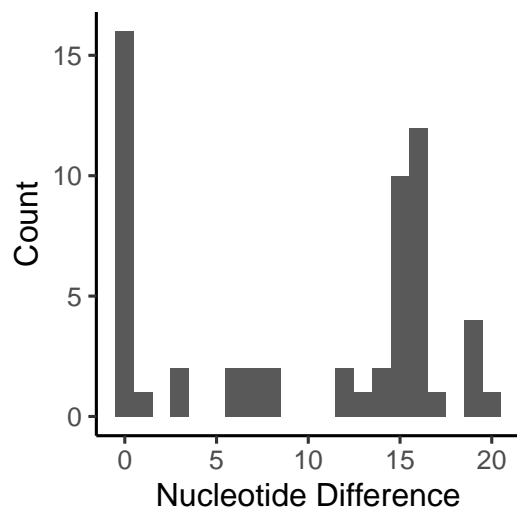
IGHV3-11*01

775 sequences assigned
365 (47.1%) exact matches, in which:
318 unique CDR3
6 unique J



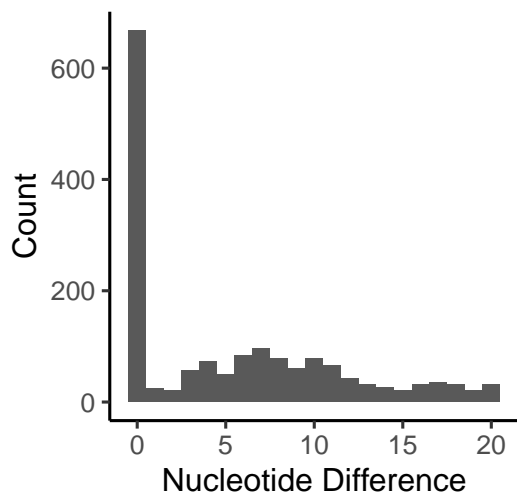
IGHV3-20*01_02

58 sequences assigned
16 (27.6%) exact matches, in which:
13 unique CDR3
5 unique J



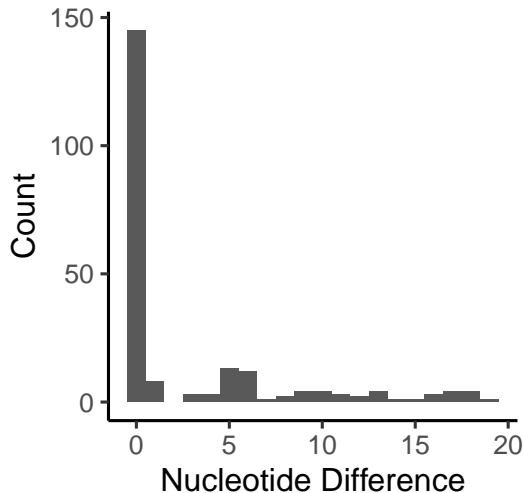
IGHV3-7*01

1828 sequences assigned
668 (36.5%) exact matches, in which:
551 unique CDR3
6 unique J



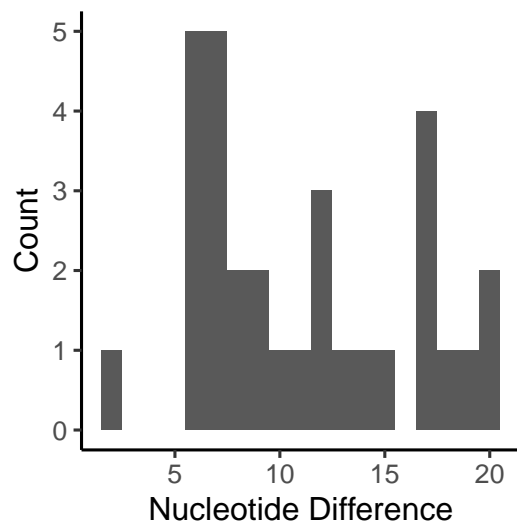
IGHV3-13*01

237 sequences assigned
145 (61.2%) exact matches, in which:
122 unique CDR3
5 unique J



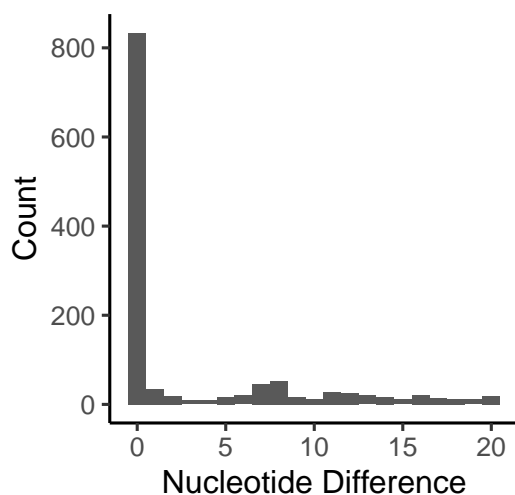
IGHV3-20*03_04

36 sequences assigned
No exact matches.



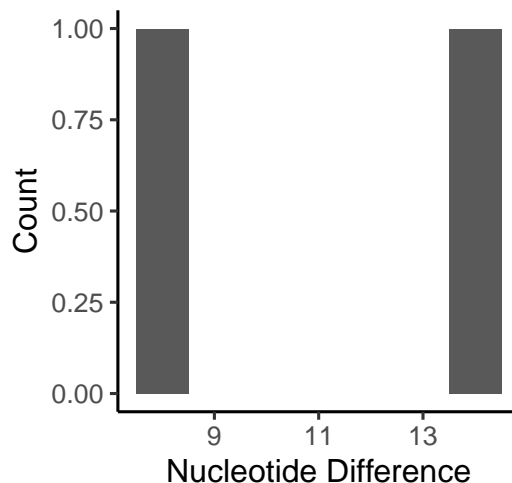
IGHV3-21*01_02

1300 sequences assigned
834 (64.2%) exact matches, in which:
714 unique CDR3
6 unique J



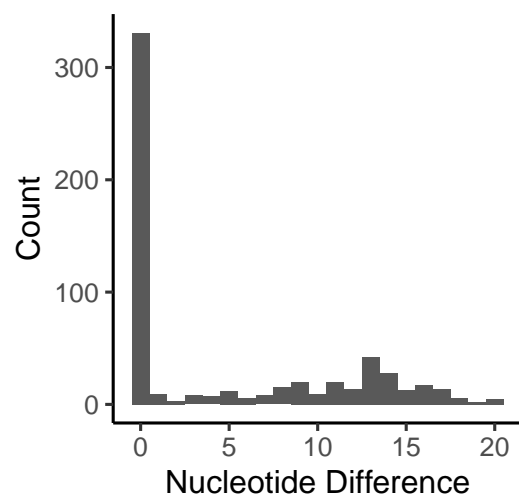
IGHV3-30-5*01

5 sequences assigned
No exact matches.



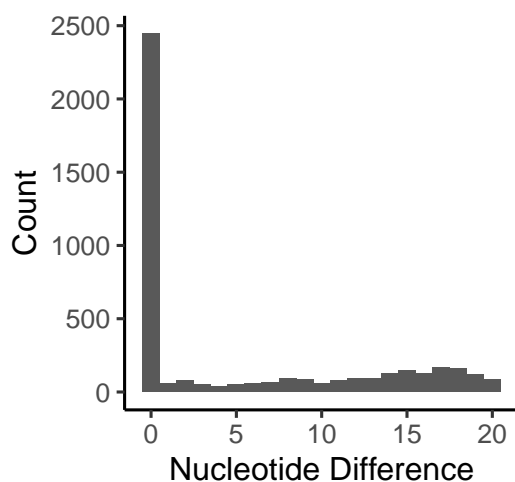
IGHV3-33*01

646 sequences assigned
331 (51.2%) exact matches, in which:
299 unique CDR3
6 unique J



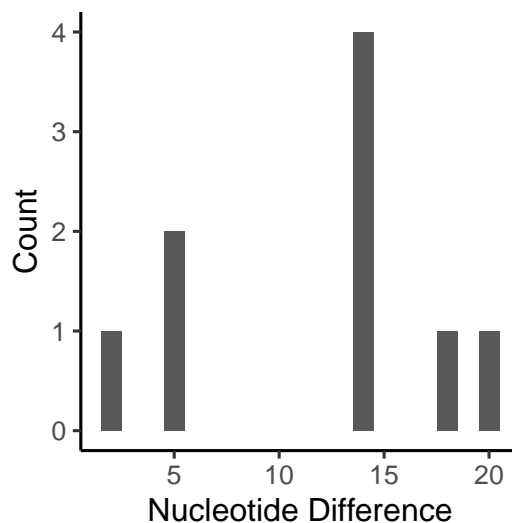
IGHV3-23*01_04

5007 sequences assigned
2445 (48.8%) exact matches, in which:
2057 unique CDR3
6 unique J



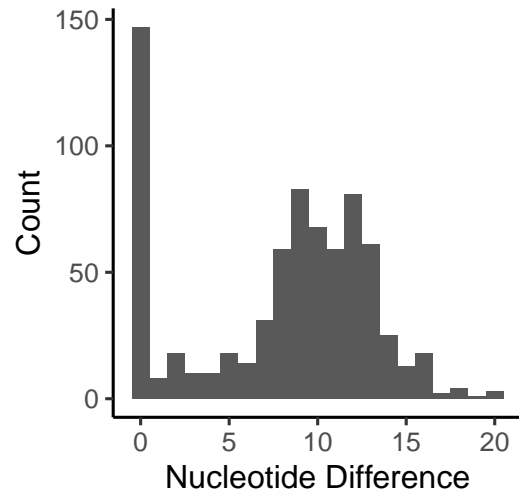
IGHV3-30-3*03

14 sequences assigned
No exact matches.



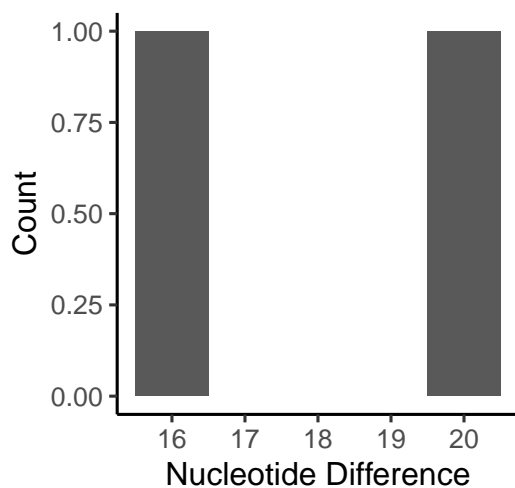
IGHV3-33*06

775 sequences assigned
147 (19%) exact matches, in which:
130 unique CDR3
5 unique J



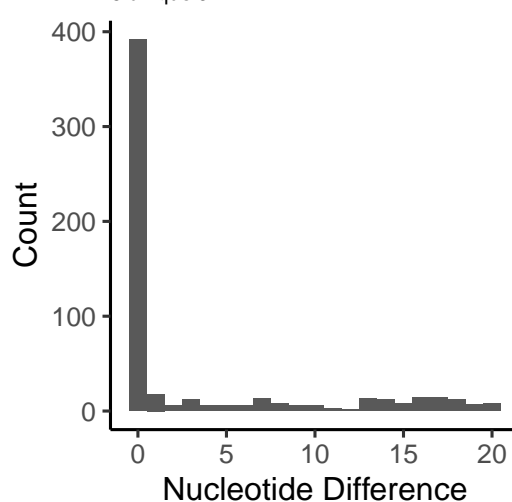
IGHV3-30-3*01

7 sequences assigned
No exact matches.



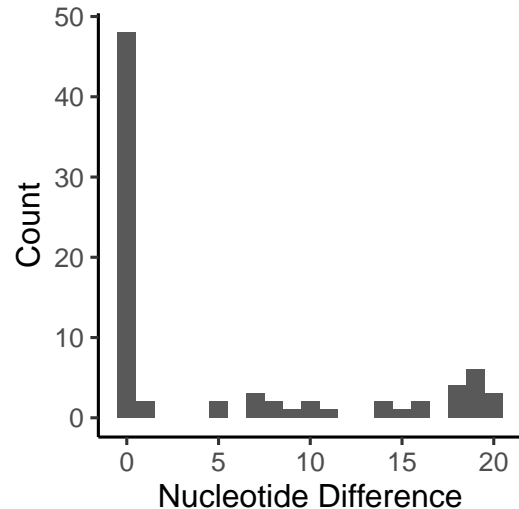
IGHV3-30*04_C203T

654 sequences assigned
392 (59.9%) exact matches, in which:
344 unique CDR3
6 unique J



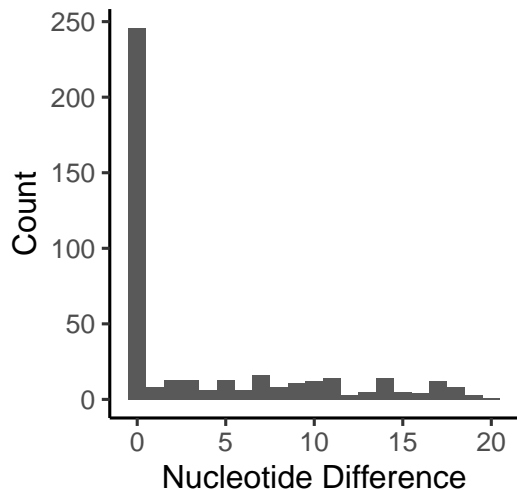
IGHV3-43*01

92 sequences assigned
48 (52.2%) exact matches, in which:
44 unique CDR3
5 unique J



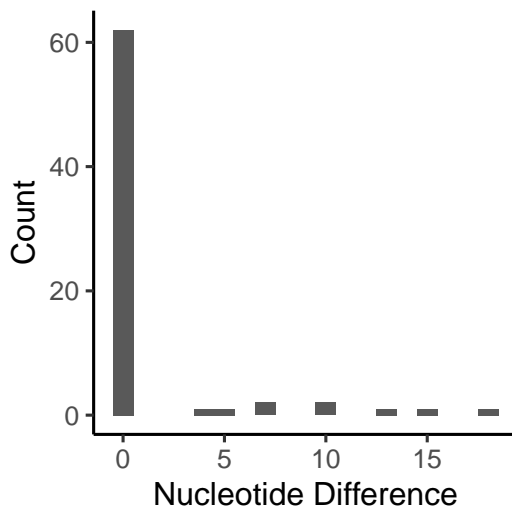
IGHV3-48*02

455 sequences assigned
246 (54.1%) exact matches, in which:
209 unique CDR3
5 unique J



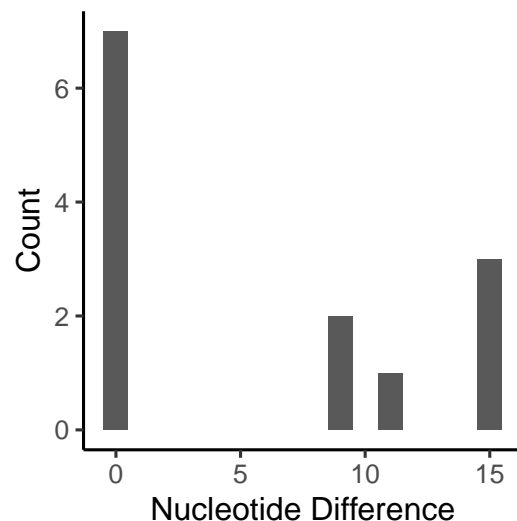
IGHV3-53*04

72 sequences assigned
62 (86.1%) exact matches, in which:
55 unique CDR3
4 unique J



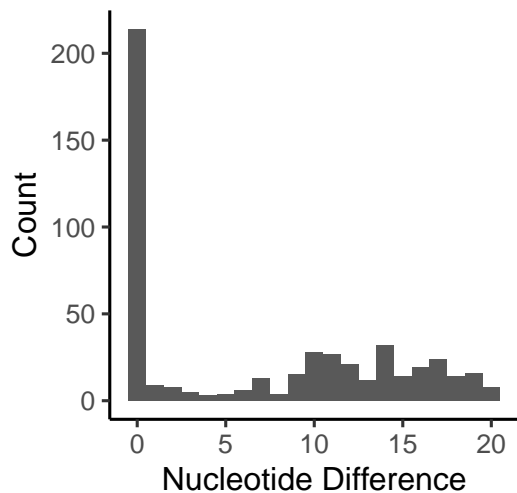
IGHV3-64*02_07

14 sequences assigned
7 (50%) exact matches, in which:
7 unique CDR3
2 unique J



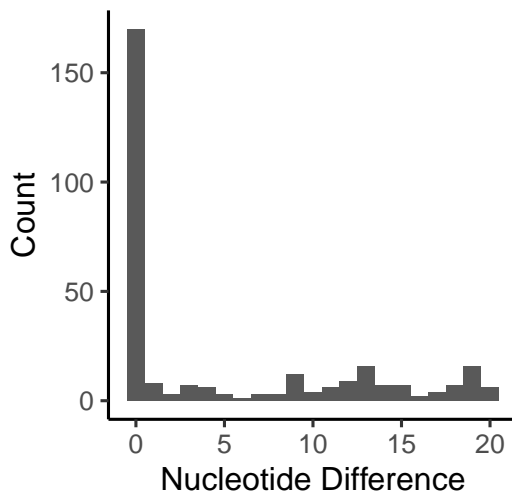
IGHV3-48*04

611 sequences assigned
214 (35%) exact matches, in which:
186 unique CDR3
6 unique J



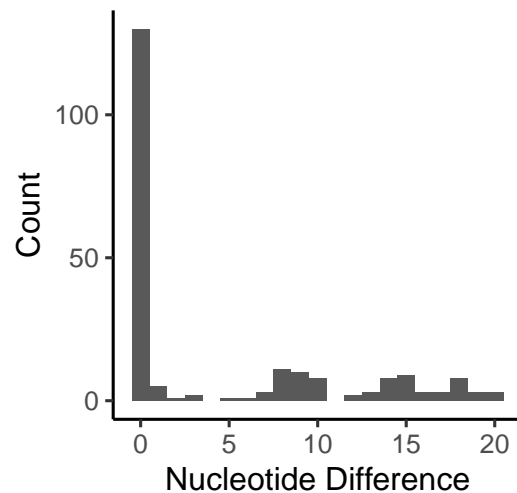
IGHV3-53*01_02

363 sequences assigned
170 (46.8%) exact matches, in which:
144 unique CDR3
6 unique J



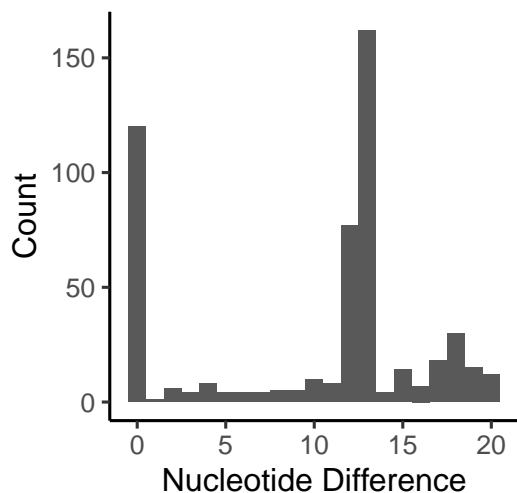
IGHV3-66*02

262 sequences assigned
130 (49.6%) exact matches, in which:
116 unique CDR3
4 unique J



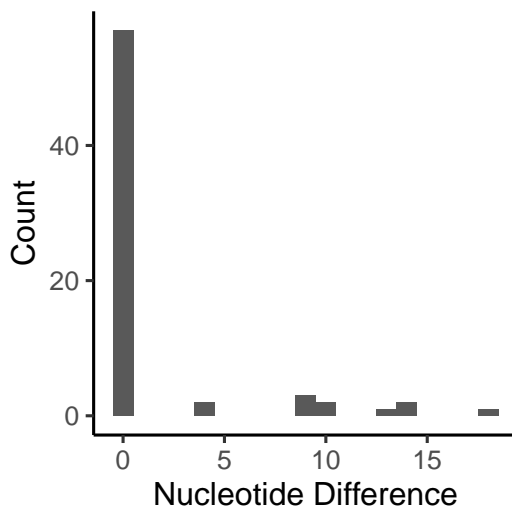
IGHV3-49*03_05

562 sequences assigned
120 (21.4%) exact matches, in which:
106 unique CDR3
5 unique J



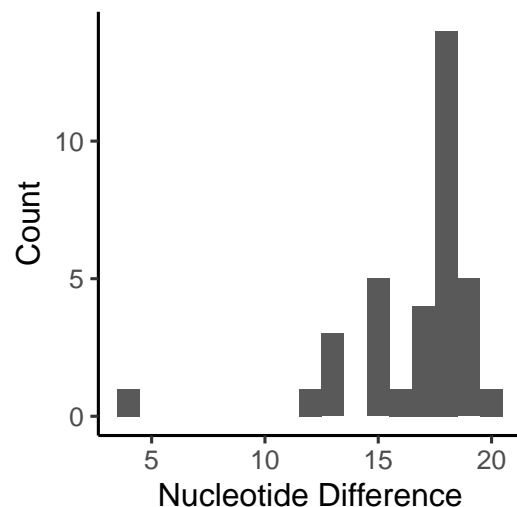
IGHV3-64*01

70 sequences assigned
57 (81.4%) exact matches, in which:
48 unique CDR3
6 unique J



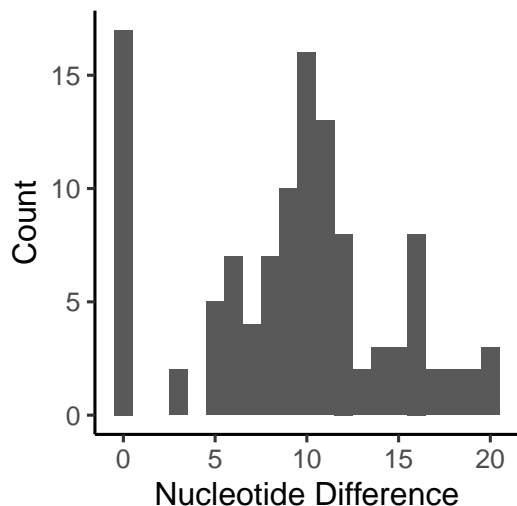
IGHV3-69-1*01

43 sequences assigned
No exact matches.



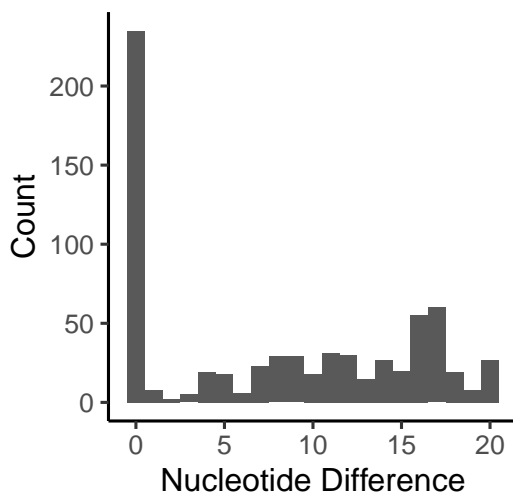
IGHV3-72*01

160 sequences assigned
17 (10.6%) exact matches, in which:
16 unique CDR3
4 unique J



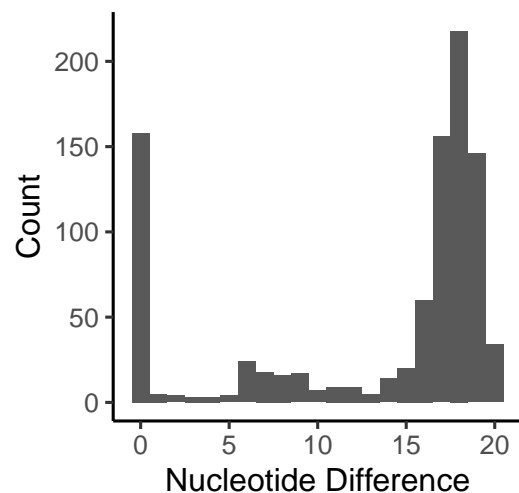
IGHV3-74*01_02

749 sequences assigned
235 (31.4%) exact matches, in which:
208 unique CDR3
6 unique J



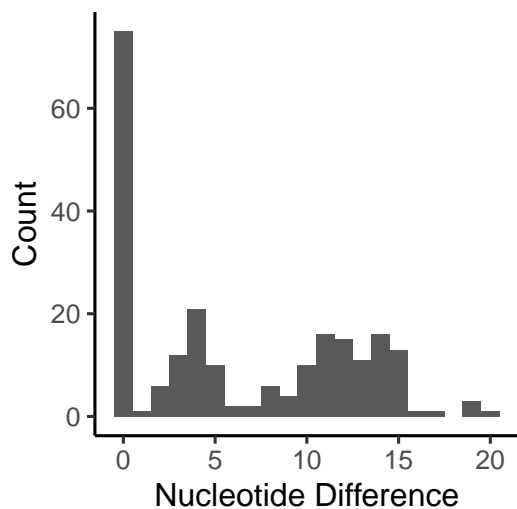
IGHV4-4*02_03

1076 sequences assigned
158 (14.7%) exact matches, in which:
156 unique CDR3
6 unique J



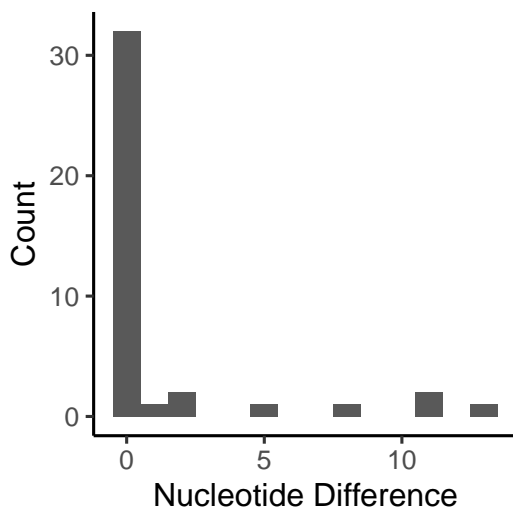
IGHV3-73*01_02

249 sequences assigned
75 (30.1%) exact matches, in which:
67 unique CDR3
6 unique J



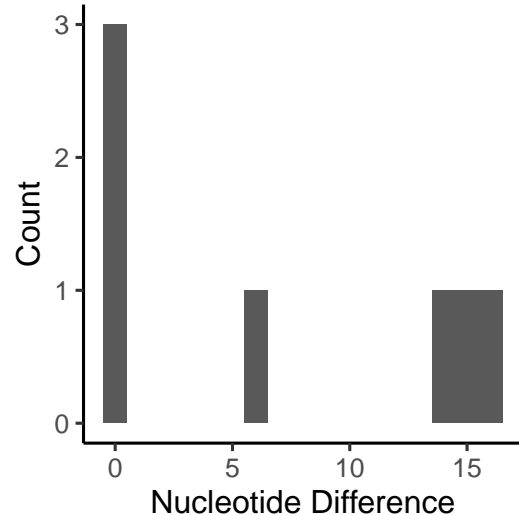
IGHV3-43D*03

53 sequences assigned
32 (60.4%) exact matches, in which:
30 unique CDR3
5 unique J



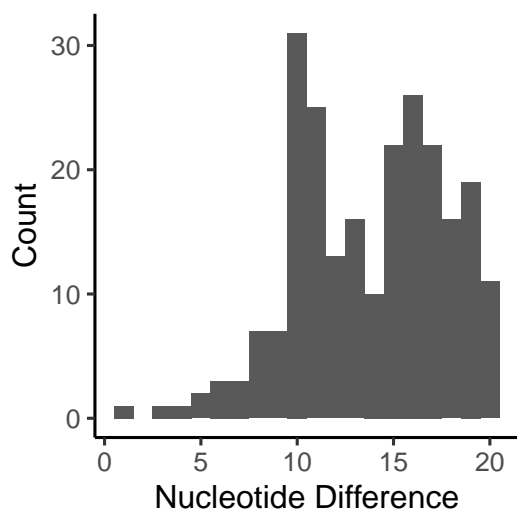
IGHV4-28*01_07

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



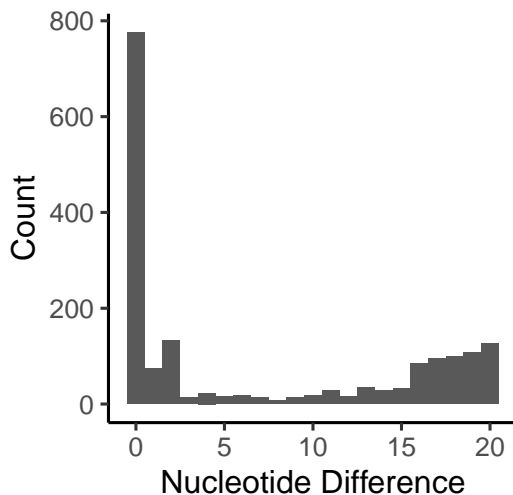
IGHV3-74*03

472 sequences assigned
No exact matches.



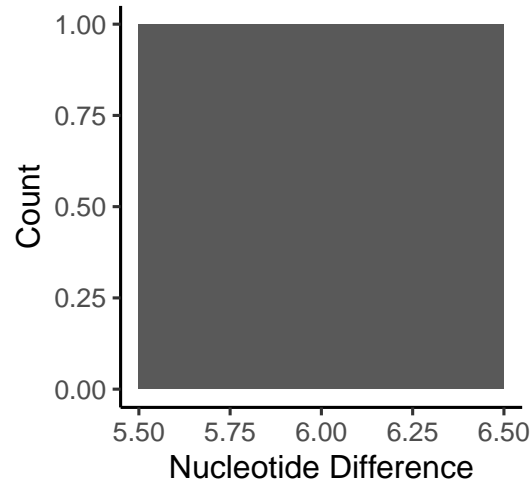
IGHV4-4*07

2909 sequences assigned
776 (26.7%) exact matches, in which:
760 unique CDR3
6 unique J



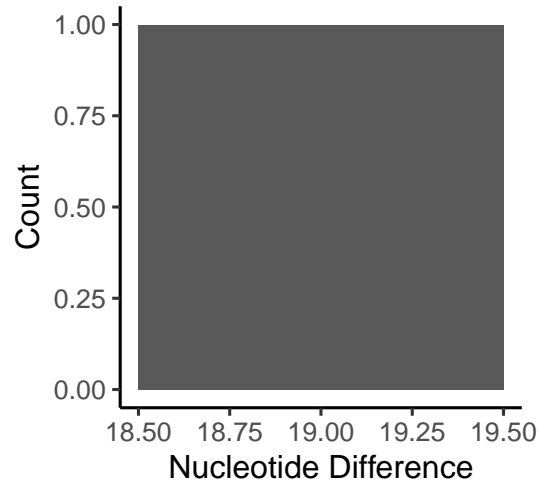
IGHV4-28*02_05

2 sequences assigned
No exact matches.



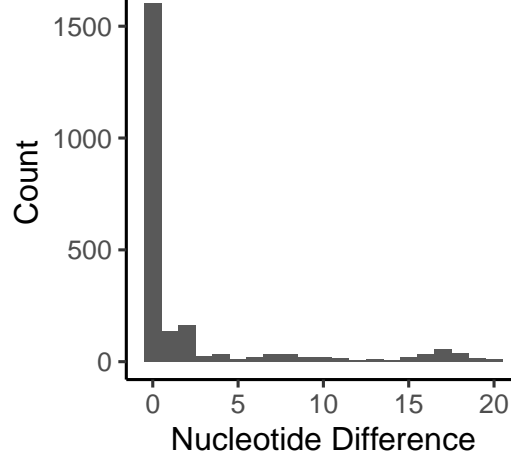
IGHV4-30-4*01

2 sequences assigned
No exact matches.



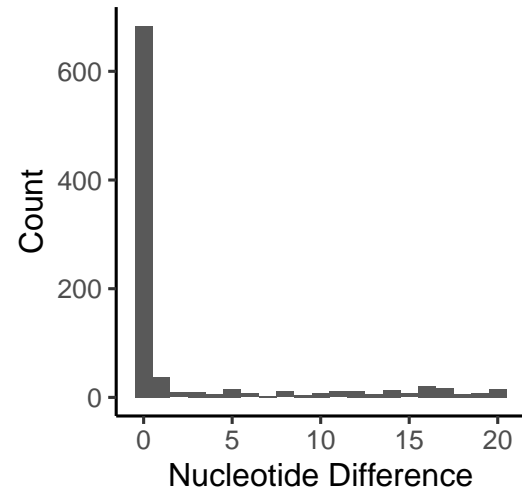
IGHV4-34*01_02

2543 sequences assigned
1602 (63%) exact matches, in which:
1585 unique CDR3
6 unique J



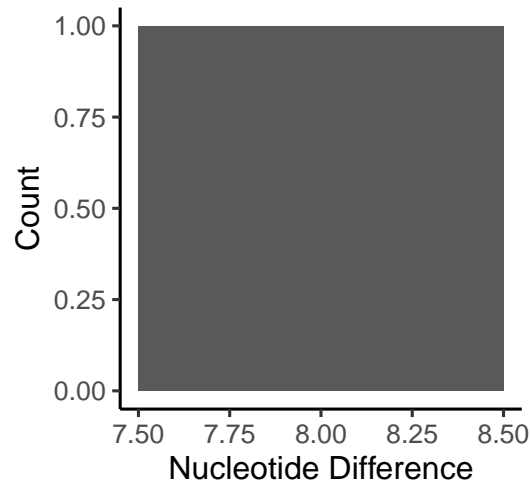
IGHV4-39*02_C258G

1536 sequences assigned
684 (44.5%) exact matches, in which:
679 unique CDR3
6 unique J



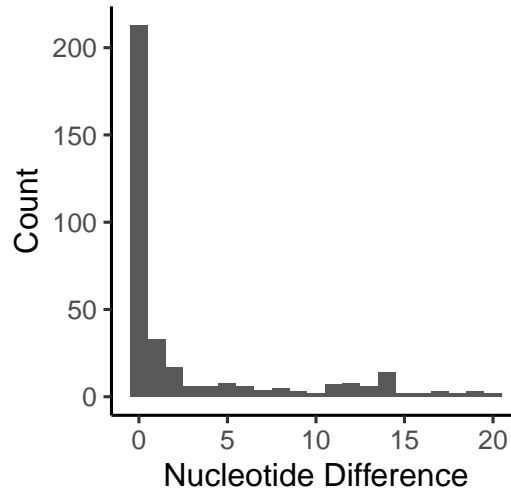
IGHV4-30-2*03

1 sequences assigned
No exact matches.



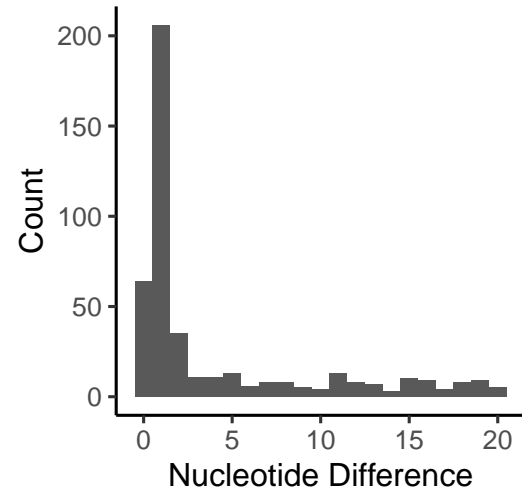
IGHV4-38-2*02

375 sequences assigned
213 (56.8%) exact matches, in which:
204 unique CDR3
6 unique J



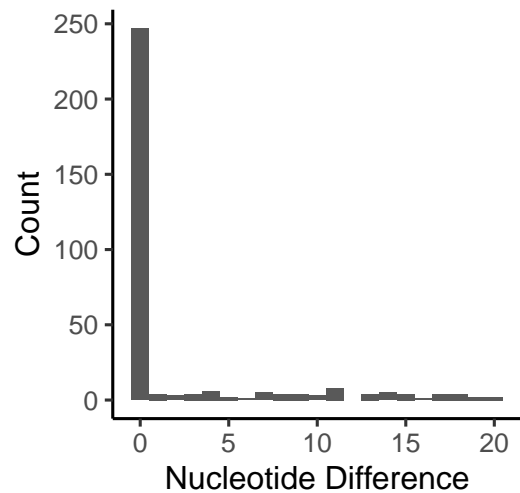
IGHV4-59*12

474 sequences assigned
64 (13.5%) exact matches, in which:
64 unique CDR3
6 unique J



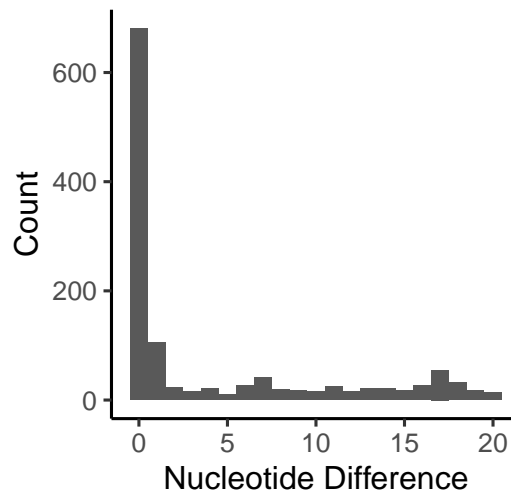
IGHV4-31*02

336 sequences assigned
247 (73.5%) exact matches, in which:
246 unique CDR3
6 unique J



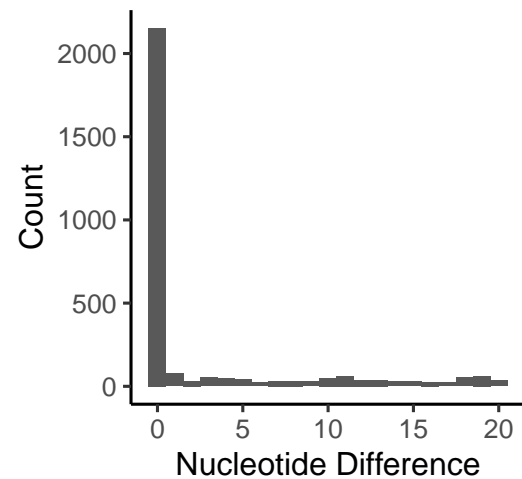
IGHV4-39*07

1411 sequences assigned
681 (48.3%) exact matches, in which:
675 unique CDR3
6 unique J



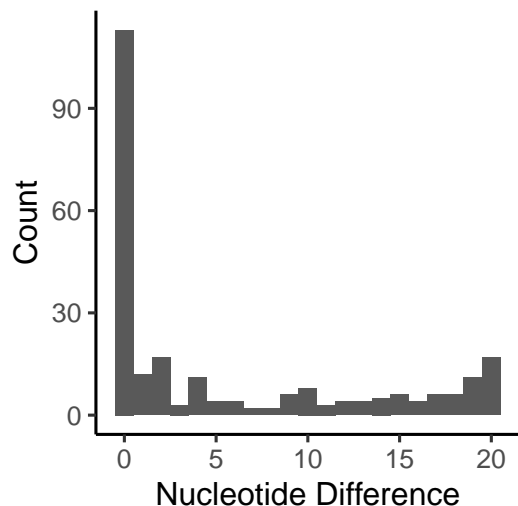
IGHV4-59*02_G88A

3116 sequences assigned
2153 (69.1%) exact matches, in which:
2142 unique CDR3
6 unique J



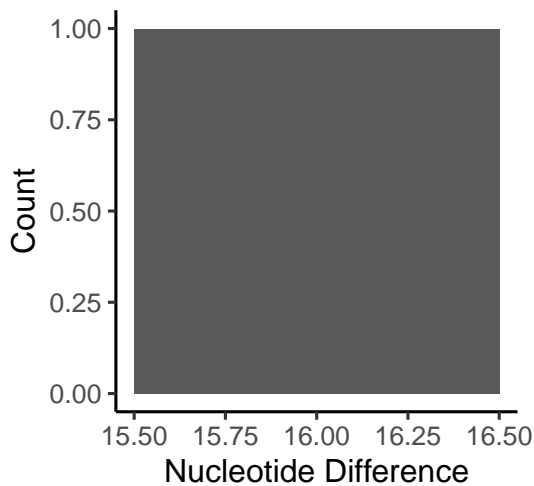
IGHV4-61*01

420 sequences assigned
113 (26.9%) exact matches, in which:
113 unique CDR3
5 unique J



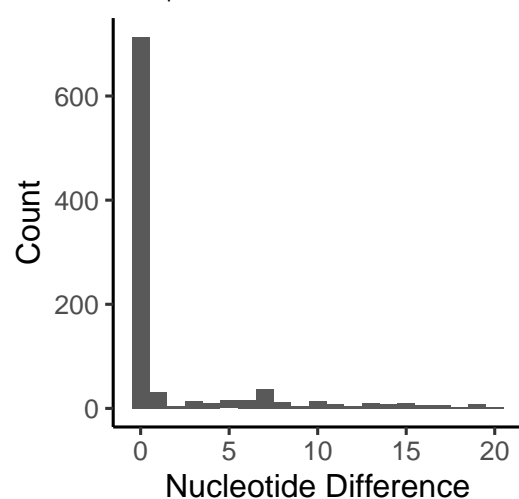
IGHV4/OR15-8*01

1 sequences assigned
No exact matches.



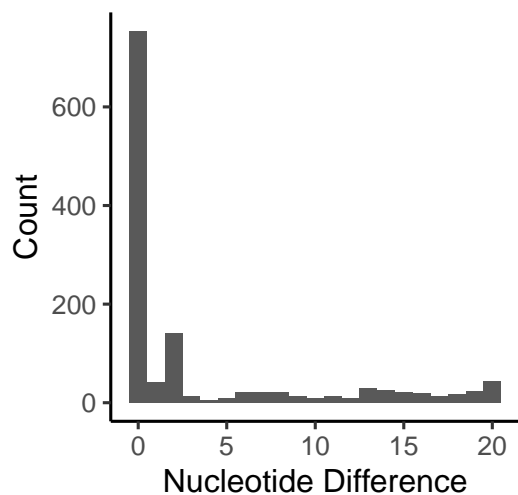
IGHV7-4-1*02

1019 sequences assigned
714 (70.1%) exact matches, in which:
713 unique CDR3
6 unique J



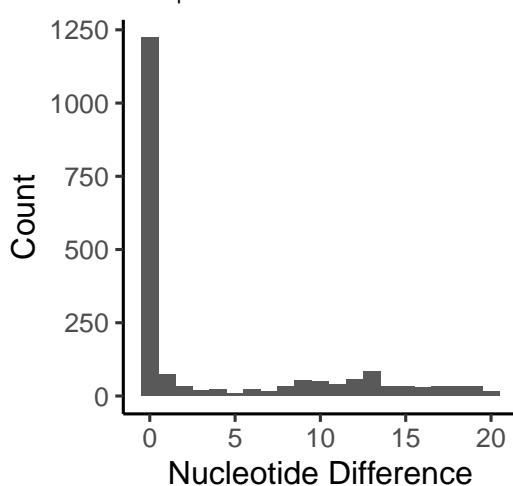
IGHV4-61*02

1509 sequences assigned
754 (50%) exact matches, in which:
751 unique CDR3
6 unique J



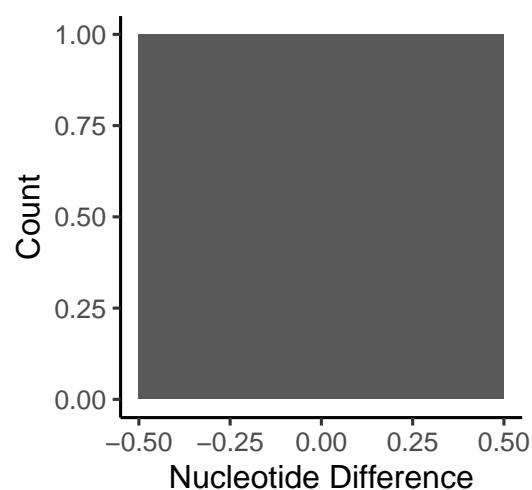
IGHV5-51*07_A128G

2155 sequences assigned
1223 (56.8%) exact matches, in which:
1102 unique CDR3
6 unique J



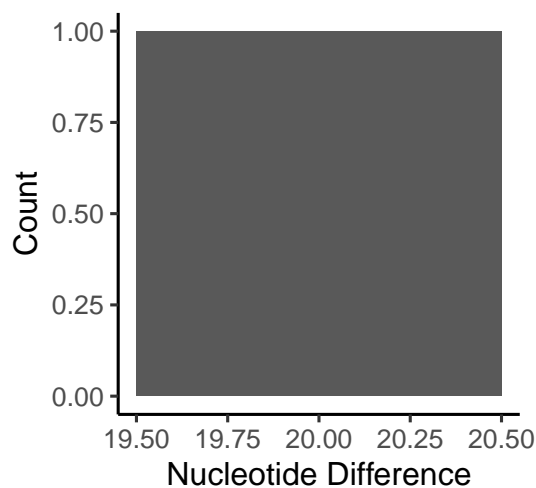
IGHV7-81*01

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



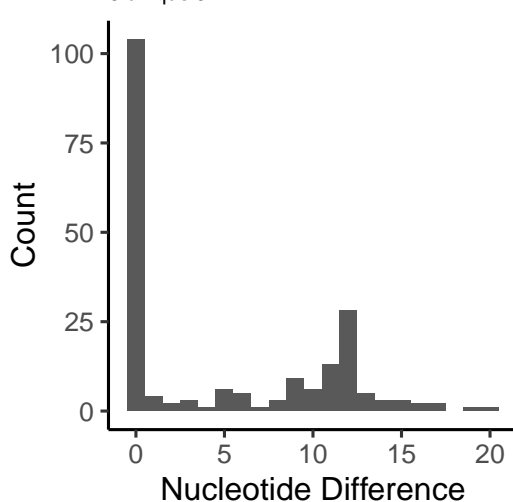
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



IGHV6-1*01_02

233 sequences assigned
104 (44.6%) exact matches, in which:
104 unique CDR3
6 unique J





Warning – no inferred sequences found.