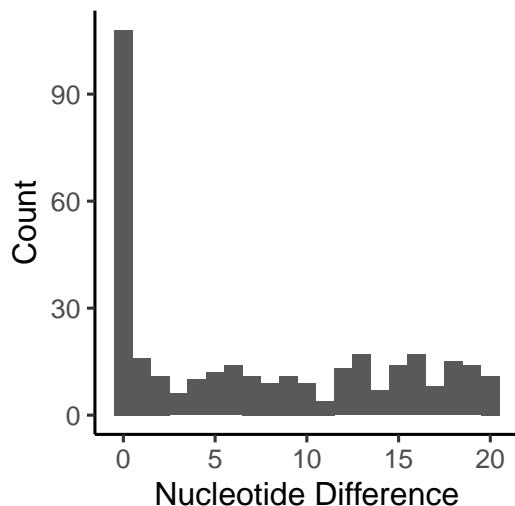


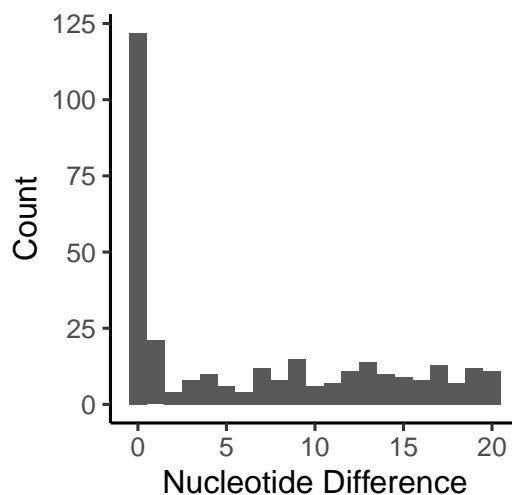
IGHV1-2*02

451 sequences assigned
108 (23.9%) exact matches, in which:
107 unique CDR3
6 unique J



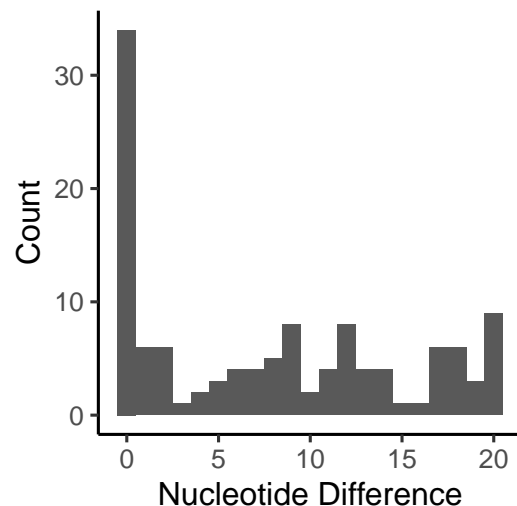
IGHV1-18*01

443 sequences assigned
122 (27.5%) exact matches, in which:
122 unique CDR3
6 unique J



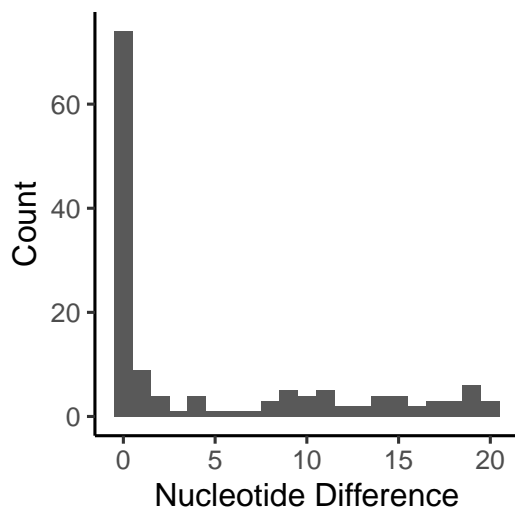
IGHV1-46*01

188 sequences assigned
34 (18.1%) exact matches, in which:
34 unique CDR3
5 unique J



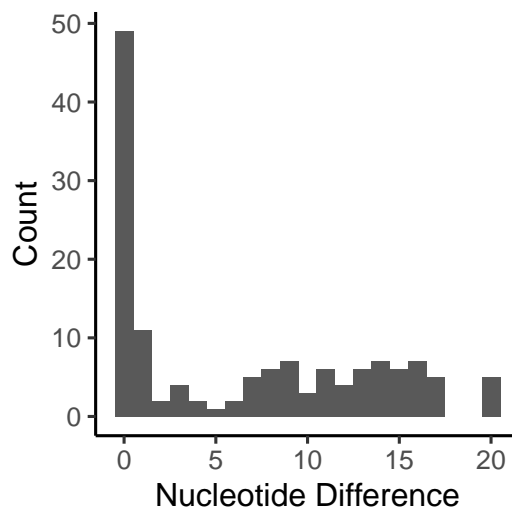
IGHV1-3*01

177 sequences assigned
74 (41.8%) exact matches, in which:
74 unique CDR3
5 unique J



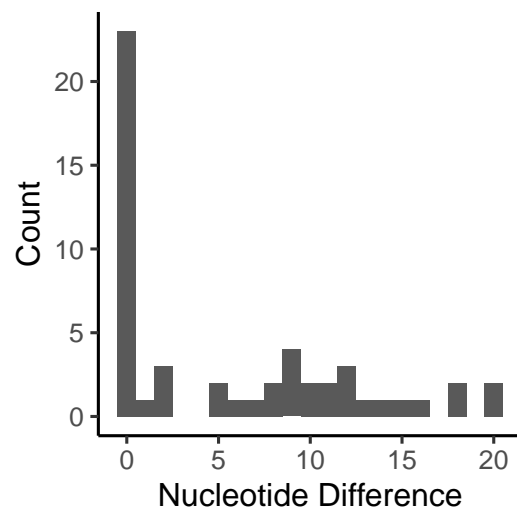
IGHV1-24*01

169 sequences assigned
49 (29%) exact matches, in which:
49 unique CDR3
5 unique J



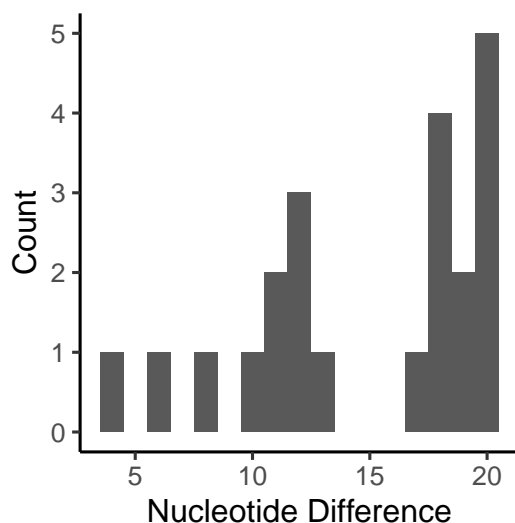
IGHV1-46*03

81 sequences assigned
23 (28.4%) exact matches, in which:
23 unique CDR3
4 unique J



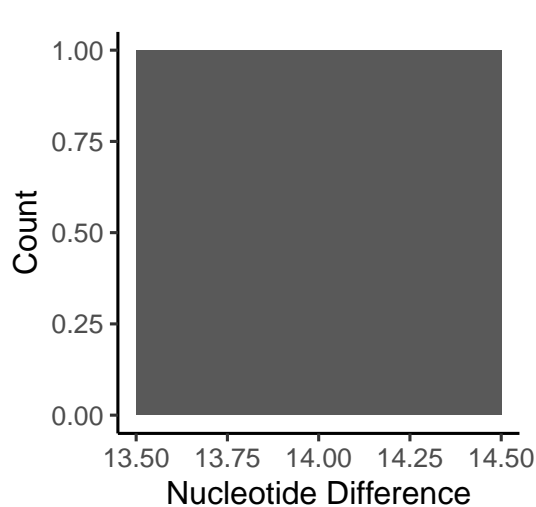
IGHV1-3*04

32 sequences assigned
No exact matches.



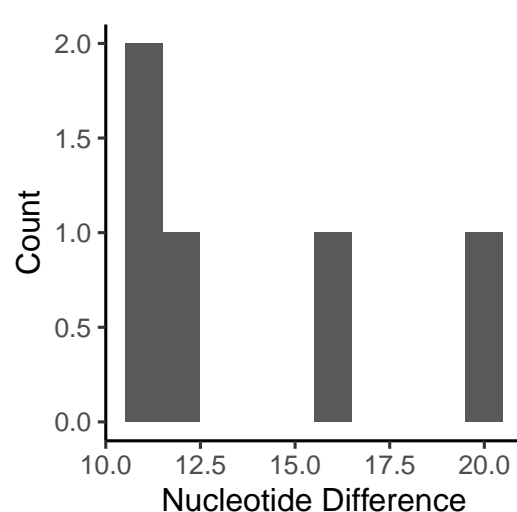
IGHV1-45*02

1 sequences assigned
No exact matches.



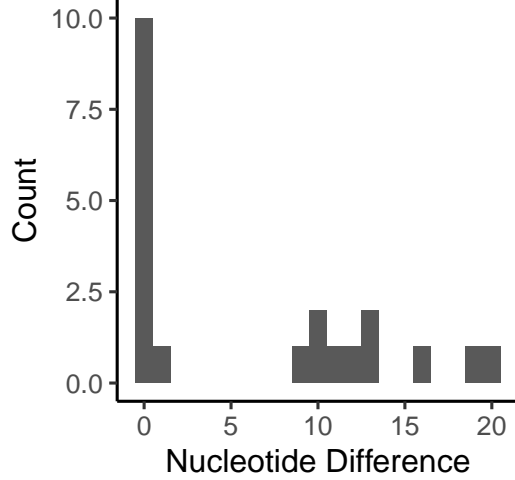
IGHV1-58*01

10 sequences assigned
No exact matches.



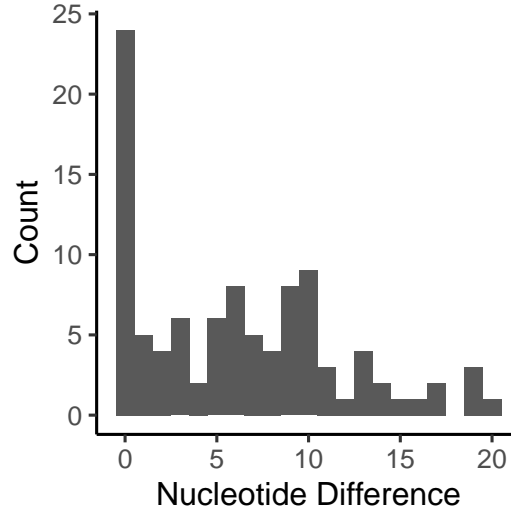
IGHV1-58*02

25 sequences assigned
10 (40%) exact matches, in which:
10 unique CDR3
3 unique J



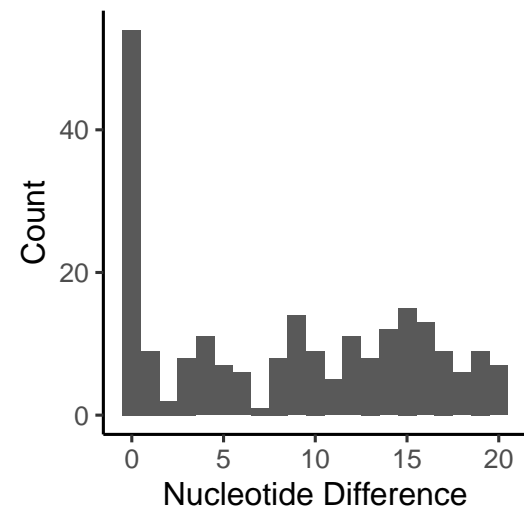
IGHV2-26*01

109 sequences assigned
24 (22%) exact matches, in which:
24 unique CDR3
5 unique J



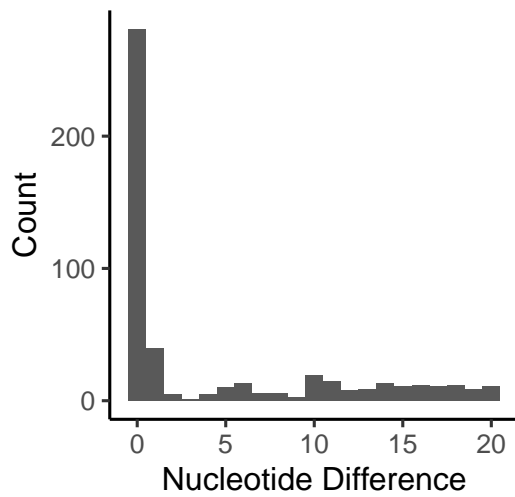
IGHV3-7*03

301 sequences assigned
54 (17.9%) exact matches, in which:
54 unique CDR3
6 unique J



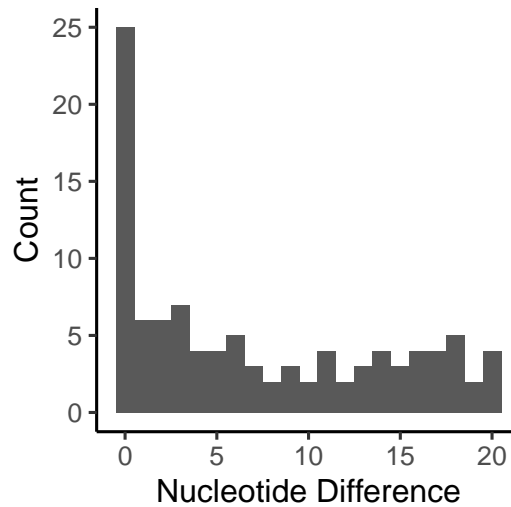
IGHV1-69*04

684 sequences assigned
281 (41.1%) exact matches, in which:
281 unique CDR3
6 unique J



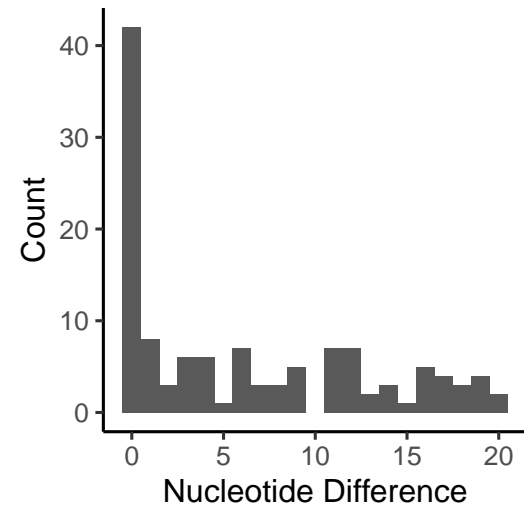
IGHV2-70*15

119 sequences assigned
25 (21%) exact matches, in which:
25 unique CDR3
4 unique J



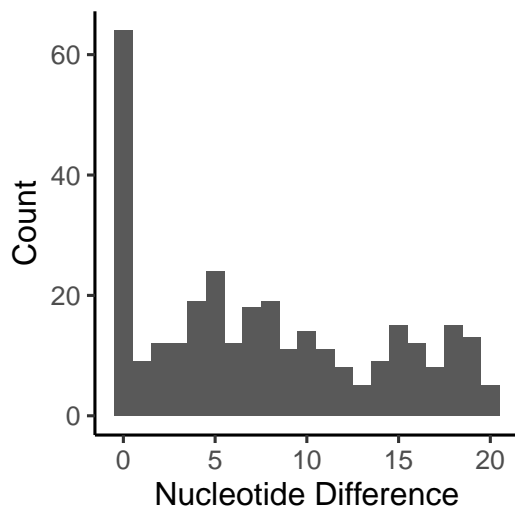
IGHV3-11*06

174 sequences assigned
42 (24.1%) exact matches, in which:
42 unique CDR3
5 unique J



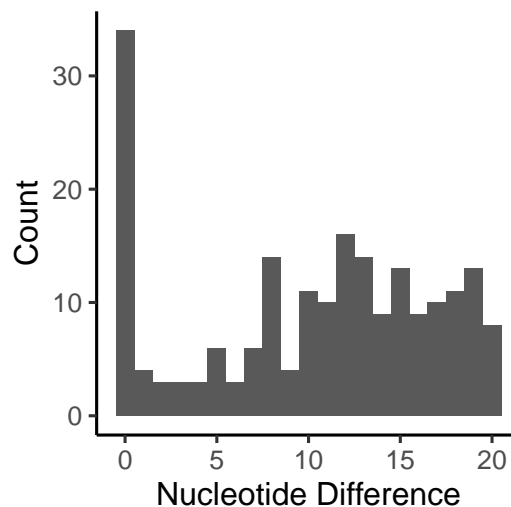
IGHV2-5*02

379 sequences assigned
64 (16.9%) exact matches, in which:
64 unique CDR3
5 unique J



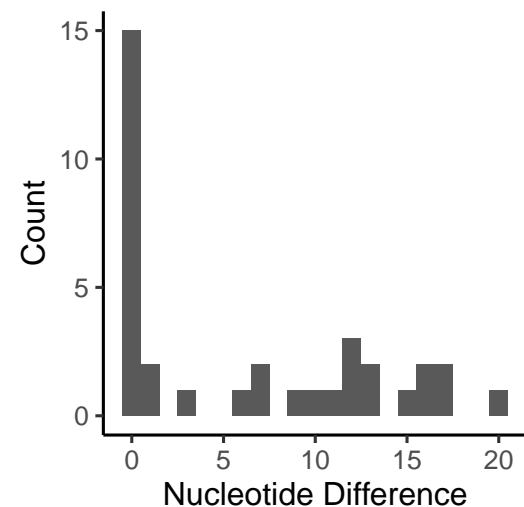
IGHV3-7*01

266 sequences assigned
34 (12.8%) exact matches, in which:
34 unique CDR3
5 unique J



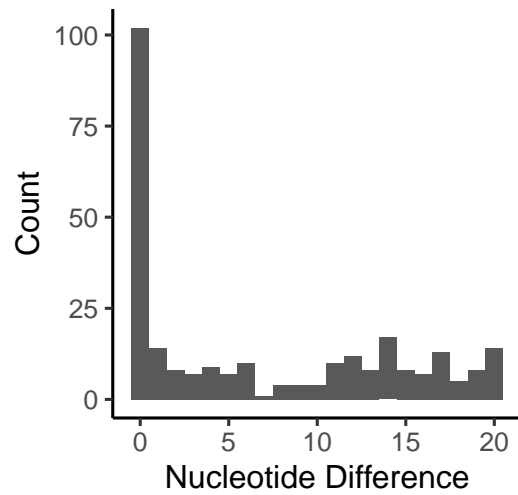
IGHV3-13*05

42 sequences assigned
15 (35.7%) exact matches, in which:
15 unique CDR3
4 unique J



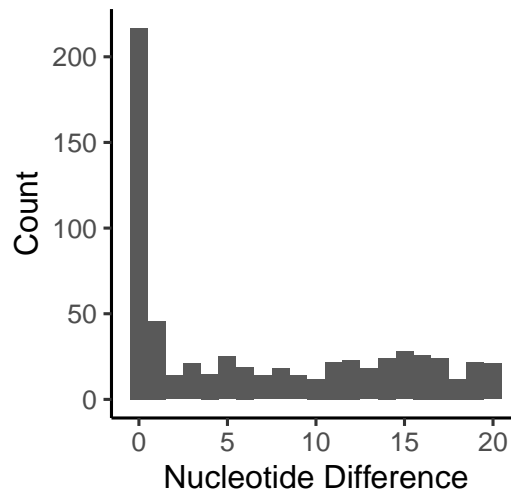
IGHV3-15*01

369 sequences assigned
102 (27.6%) exact matches, in which:
102 unique CDR3
5 unique J



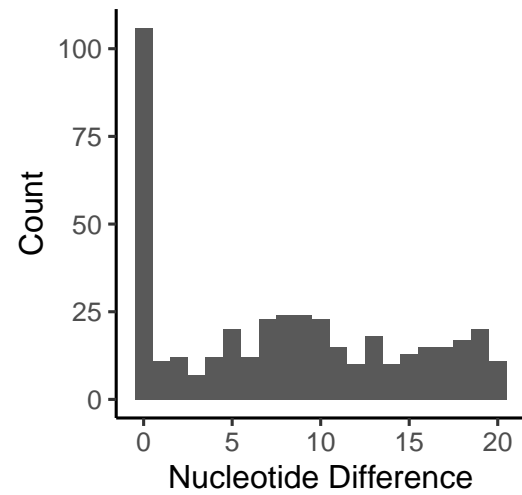
IGHV3-30-3*01

888 sequences assigned
217 (24.4%) exact matches, in which:
216 unique CDR3
6 unique J



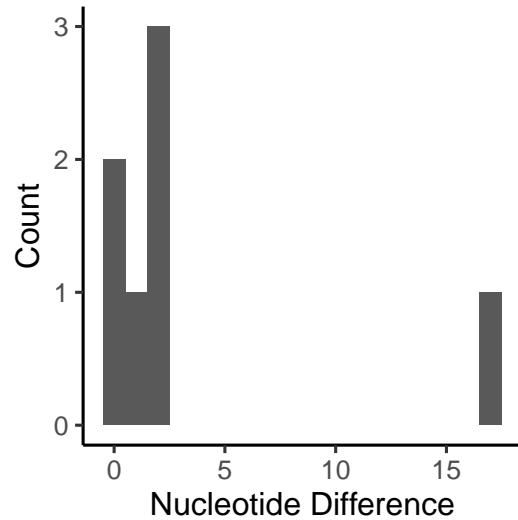
IGHV3-48*01

538 sequences assigned
106 (19.7%) exact matches, in which:
106 unique CDR3
6 unique J



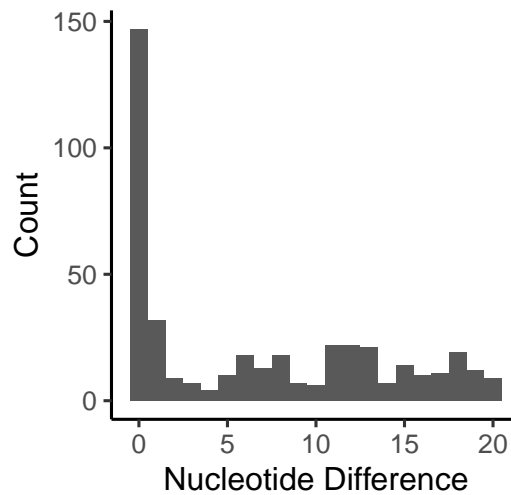
IGHV3-20*01

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
1 unique J



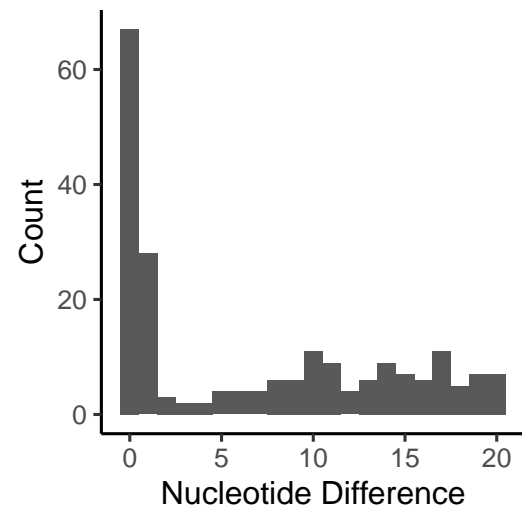
IGHV3-33*01

560 sequences assigned
147 (26.2%) exact matches, in which:
142 unique CDR3
6 unique J



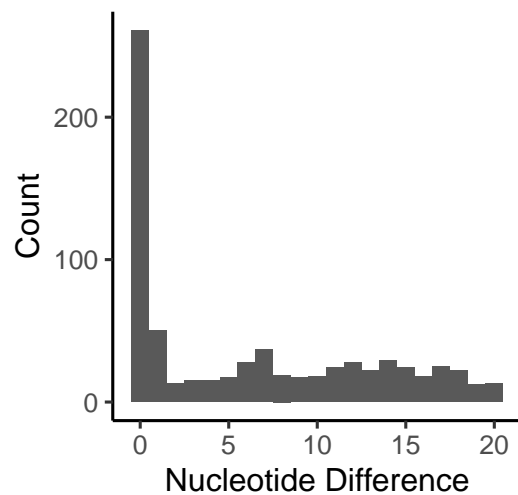
IGHV3-49*03

266 sequences assigned
67 (25.2%) exact matches, in which:
66 unique CDR3
4 unique J



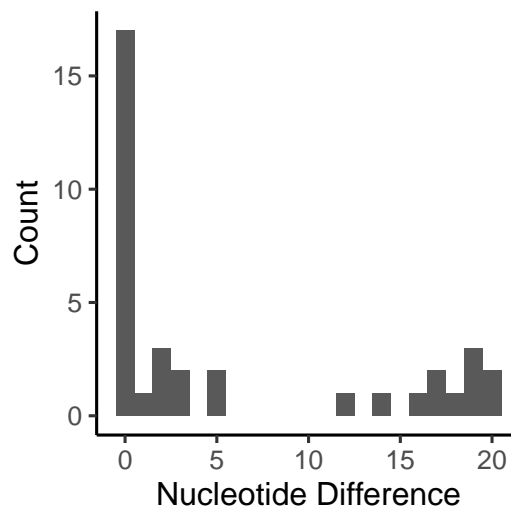
IGHV3-21*01

827 sequences assigned
261 (31.6%) exact matches, in which:
259 unique CDR3
6 unique J



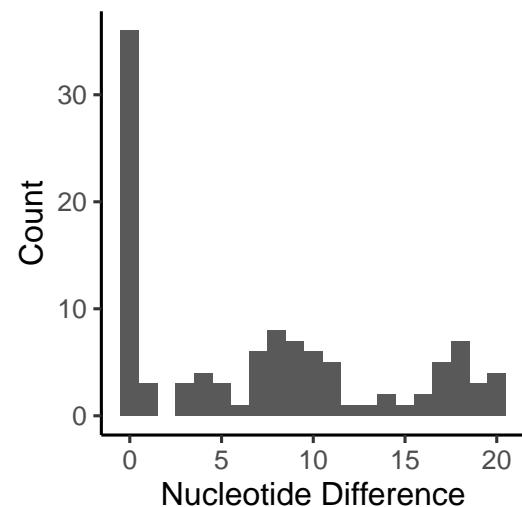
IGHV3-43*01

61 sequences assigned
17 (27.9%) exact matches, in which:
17 unique CDR3
3 unique J



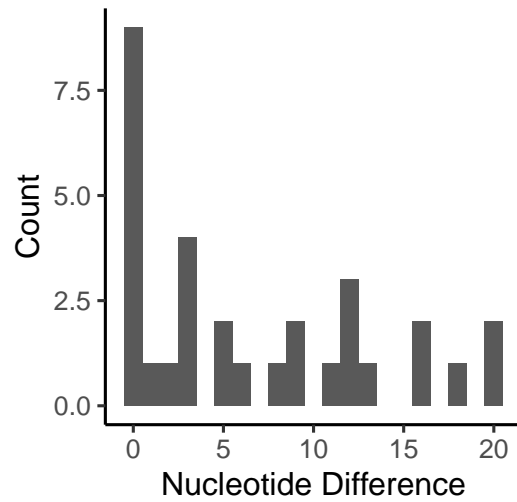
IGHV3-53*02

134 sequences assigned
36 (26.9%) exact matches, in which:
36 unique CDR3
5 unique J



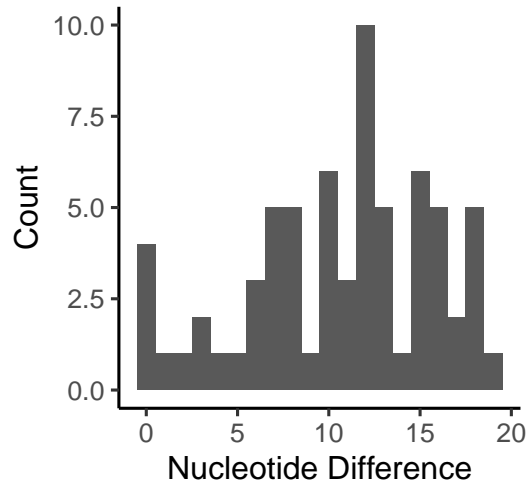
IGHV3-64*01

47 sequences assigned
9 (19.1%) exact matches, in which:
9 unique CDR3
5 unique J



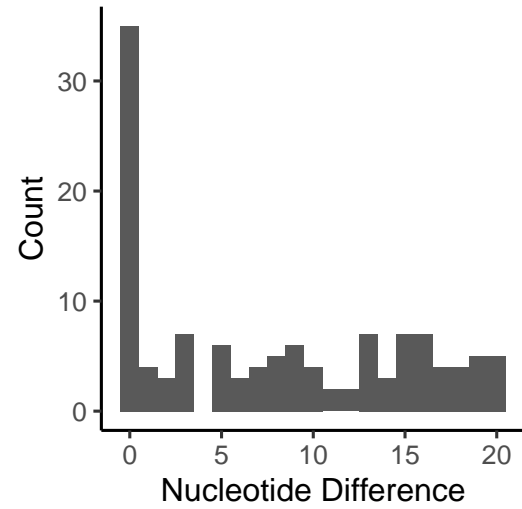
IGHV3-72*01

81 sequences assigned
4 (4.9%) exact matches, in which:
4 unique CDR3
2 unique J



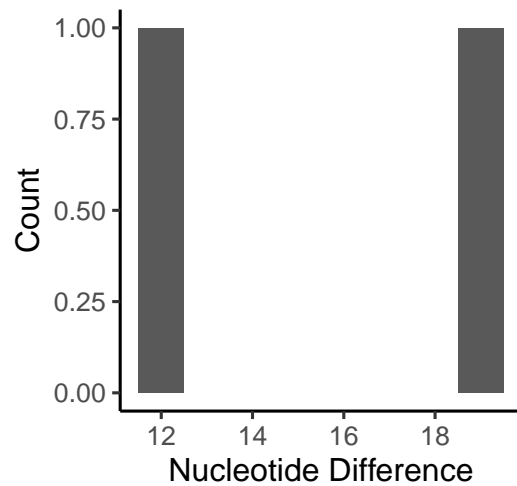
IGHV3-64D*06

166 sequences assigned
35 (21.1%) exact matches, in which:
35 unique CDR3
4 unique J



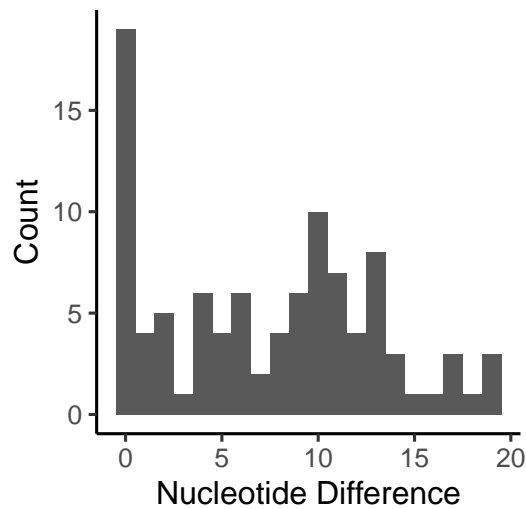
IGHV3-64*07

8 sequences assigned
No exact matches.



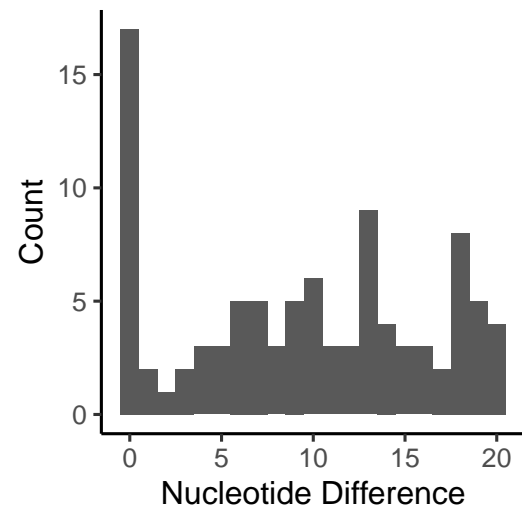
IGHV3-73*01

109 sequences assigned
19 (17.4%) exact matches, in which:
18 unique CDR3
5 unique J



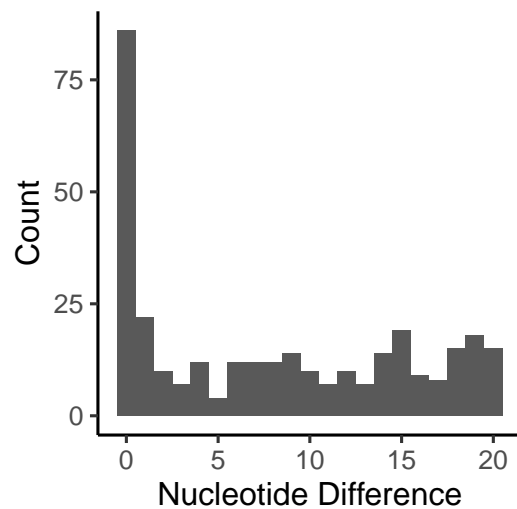
IGHV4-4*02

144 sequences assigned
17 (11.8%) exact matches, in which:
17 unique CDR3
5 unique J



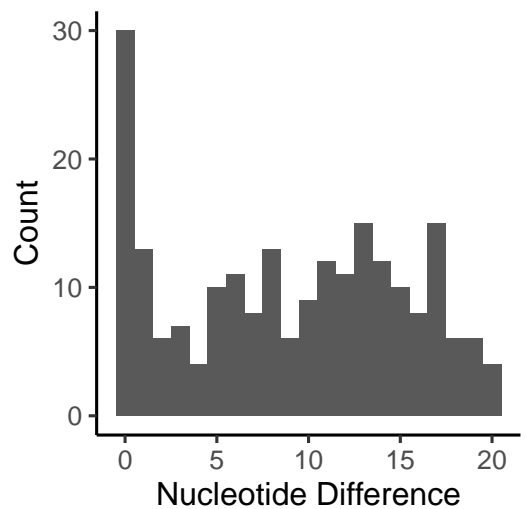
IGHV3-66*01

411 sequences assigned
86 (20.9%) exact matches, in which:
86 unique CDR3
5 unique J



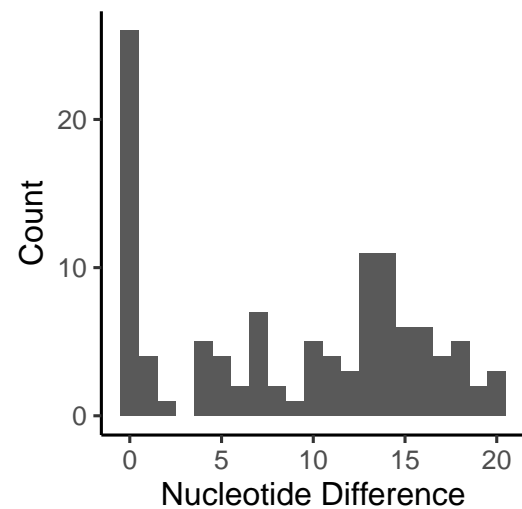
IGHV3-74*01

283 sequences assigned
30 (10.6%) exact matches, in which:
30 unique CDR3
5 unique J



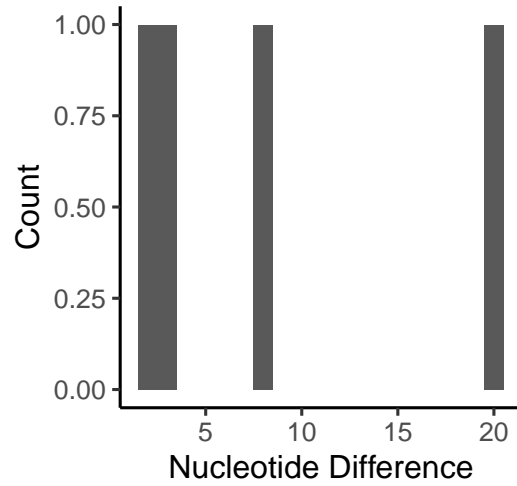
IGHV4-4*07

172 sequences assigned
26 (15.1%) exact matches, in which:
26 unique CDR3
4 unique J



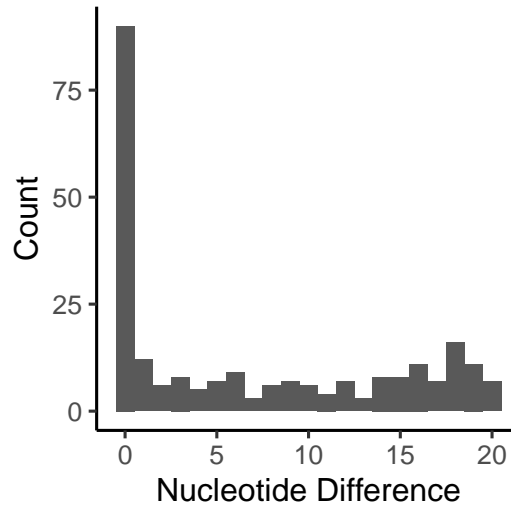
IGHV4-28*01

6 sequences assigned
No exact matches.



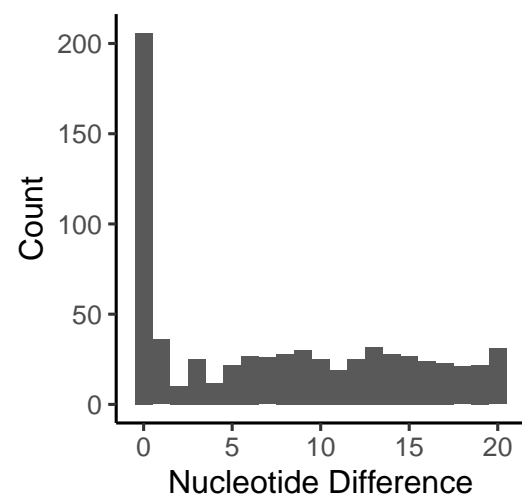
IGHV4-31*03

388 sequences assigned
90 (23.2%) exact matches, in which:
88 unique CDR3
5 unique J



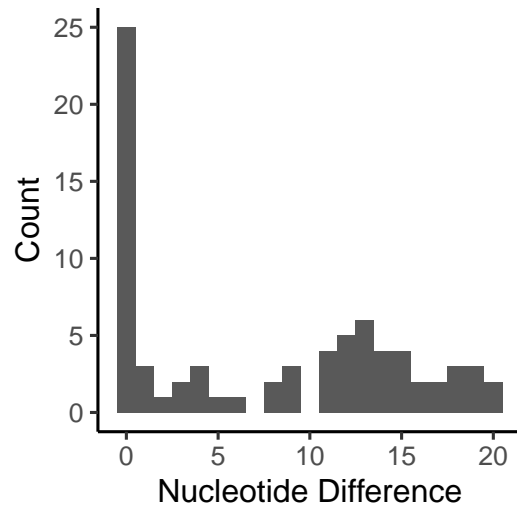
IGHV4-39*01

1045 sequences assigned
206 (19.7%) exact matches, in which:
202 unique CDR3
6 unique J



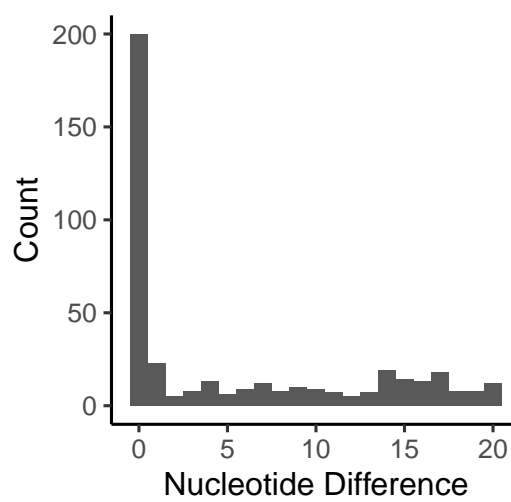
IGHV4-30-2*01

108 sequences assigned
25 (23.1%) exact matches, in which:
25 unique CDR3
4 unique J



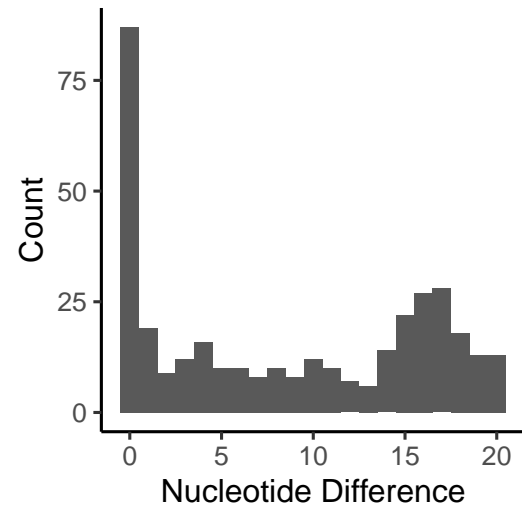
IGHV4-34*01

566 sequences assigned
200 (35.3%) exact matches, in which:
199 unique CDR3
6 unique J



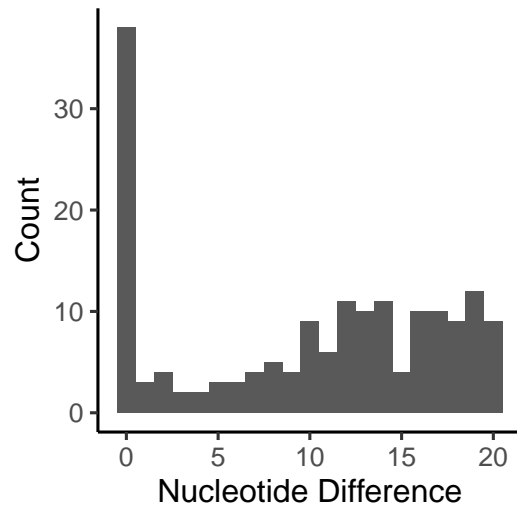
IGHV4-59*01

480 sequences assigned
87 (18.1%) exact matches, in which:
86 unique CDR3
5 unique J



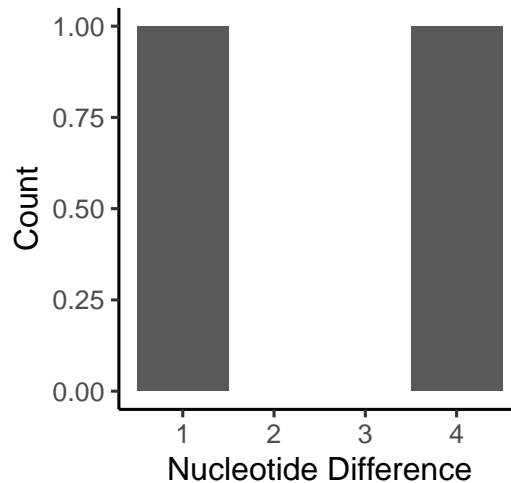
IGHV4-30-4*01

237 sequences assigned
38 (16%) exact matches, in which:
38 unique CDR3
5 unique J



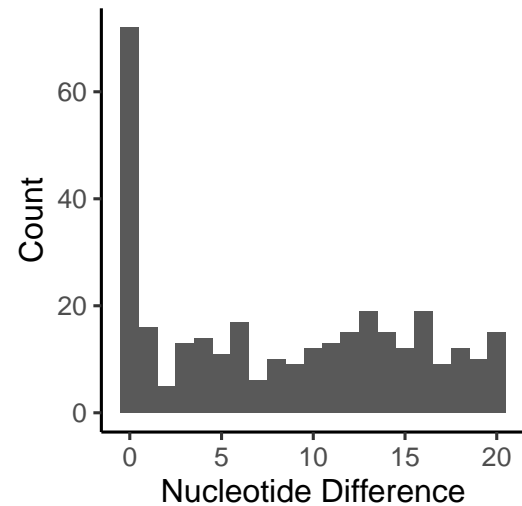
IGHV4-38-2*02

2 sequences assigned
No exact matches.



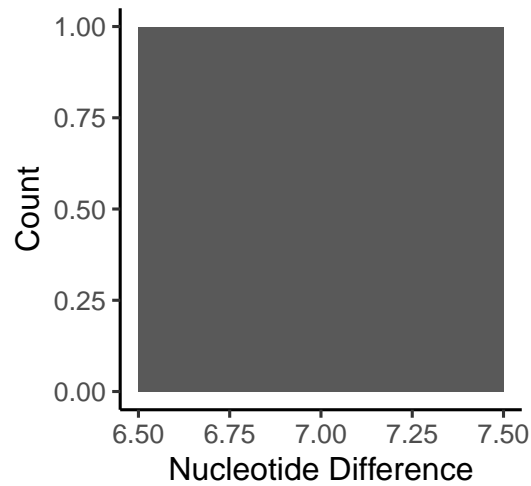
IGHV4-59*08

457 sequences assigned
72 (15.8%) exact matches, in which:
72 unique CDR3
5 unique J



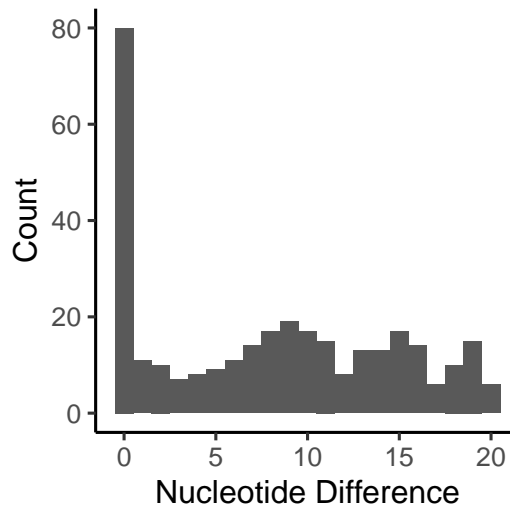
IGHV4-61*03

1 sequences assigned
No exact matches.



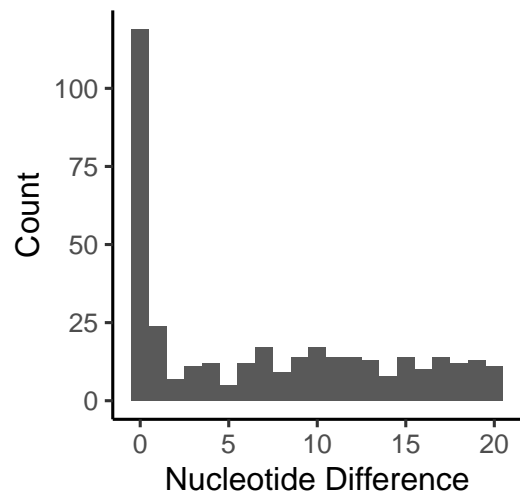
IGHV5-51*03

417 sequences assigned
80 (19.2%) exact matches, in which:
79 unique CDR3
5 unique J



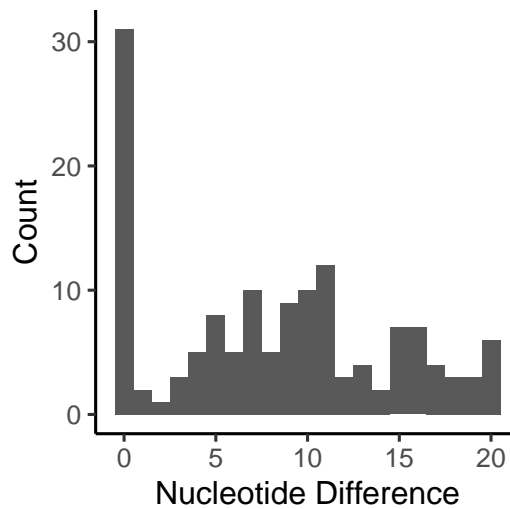
IGHV5-10-1*03

537 sequences assigned
119 (22.2%) exact matches, in which:
118 unique CDR3
5 unique J



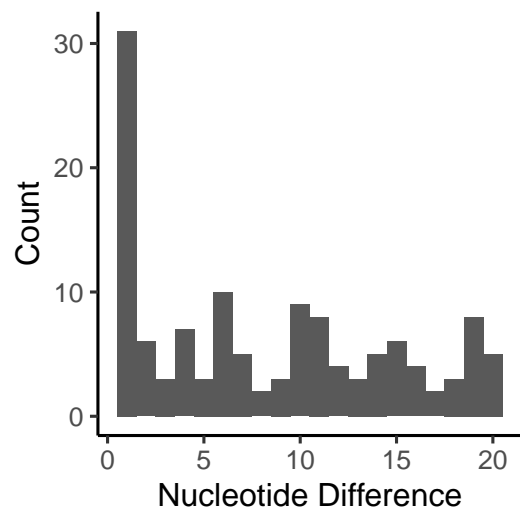
IGHV6-1*01

178 sequences assigned
31 (17.4%) exact matches, in which:
31 unique CDR3
5 unique J



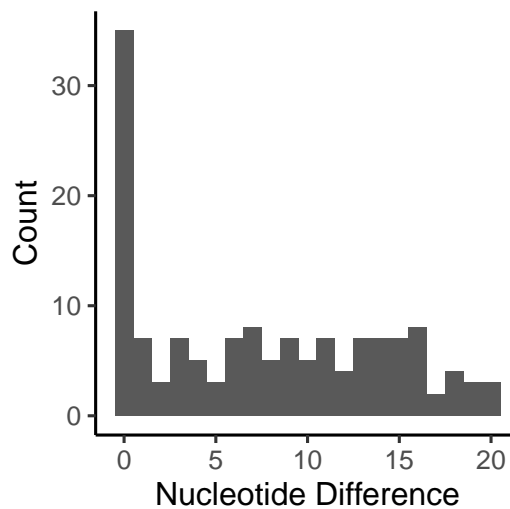
IGHV5-51*01

175 sequences assigned
No exact matches.



IGHV7-4-1*02

174 sequences assigned
35 (20.1%) exact matches, in which:
34 unique CDR3
5 unique J





Warning – no inferred sequences found.