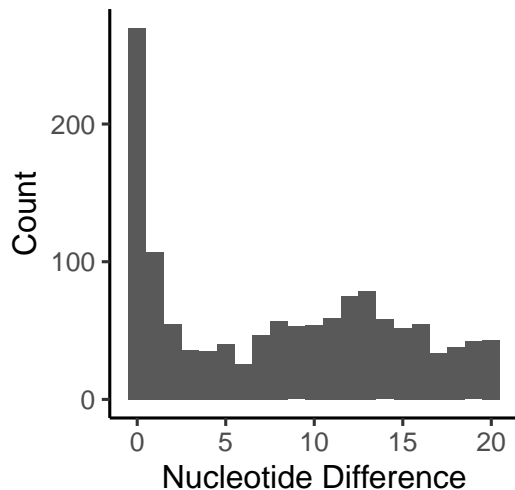


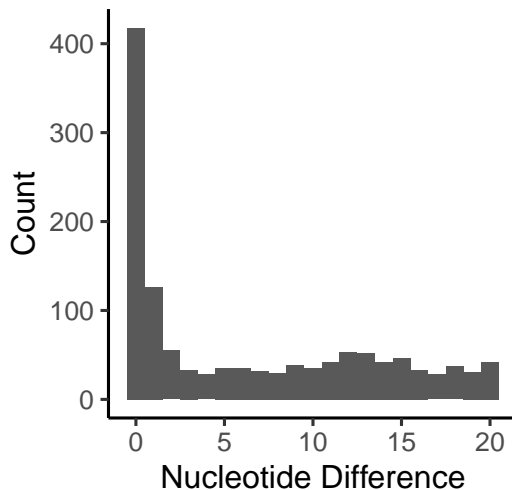
IGHV1-2*02

1712 sequences assigned
270 (15.8%) exact matches, in which:
268 unique CDR3
6 unique J



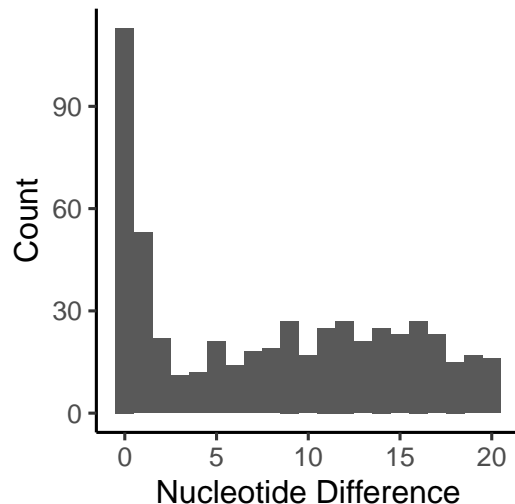
IGHV1-18*04

1869 sequences assigned
418 (22.4%) exact matches, in which:
416 unique CDR3
6 unique J



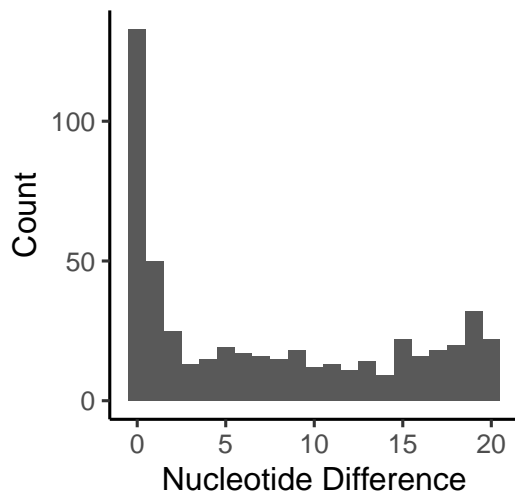
IGHV1-46*01

786 sequences assigned
113 (14.4%) exact matches, in which:
113 unique CDR3
5 unique J



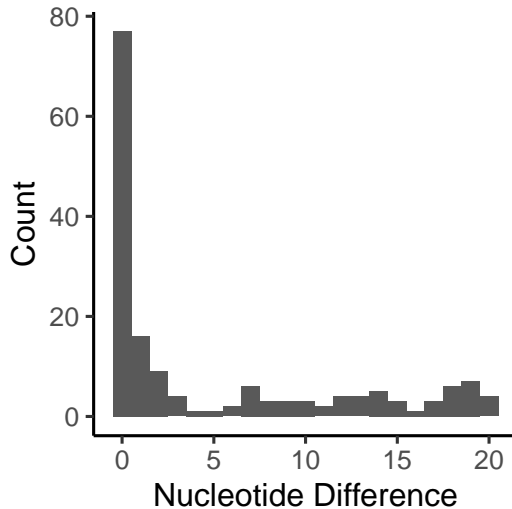
IGHV1-3*01

775 sequences assigned
133 (17.2%) exact matches, in which:
133 unique CDR3
6 unique J



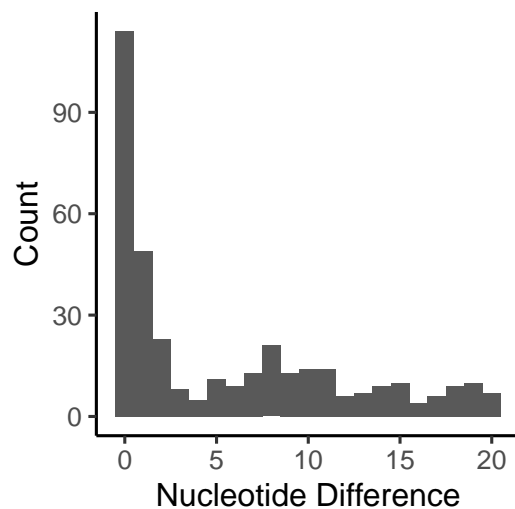
IGHV1-24*01

205 sequences assigned
77 (37.6%) exact matches, in which:
76 unique CDR3
6 unique J



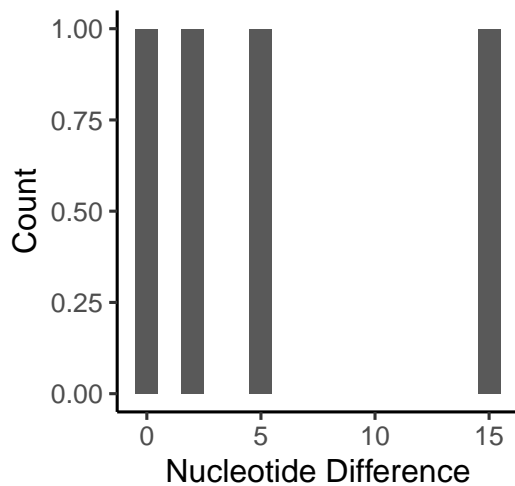
IGHV1-46*03

486 sequences assigned
114 (23.5%) exact matches, in which:
114 unique CDR3
5 unique J



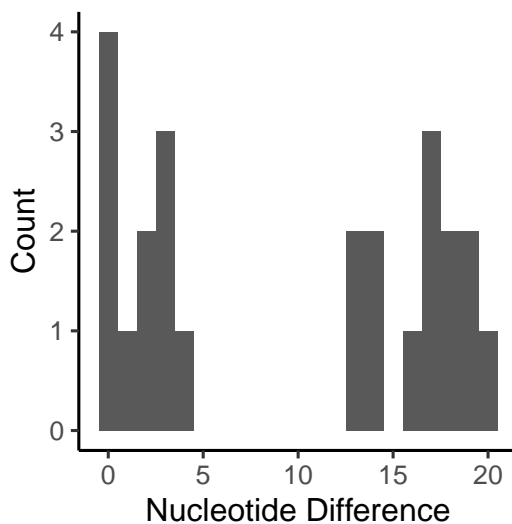
IGHV1-8*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



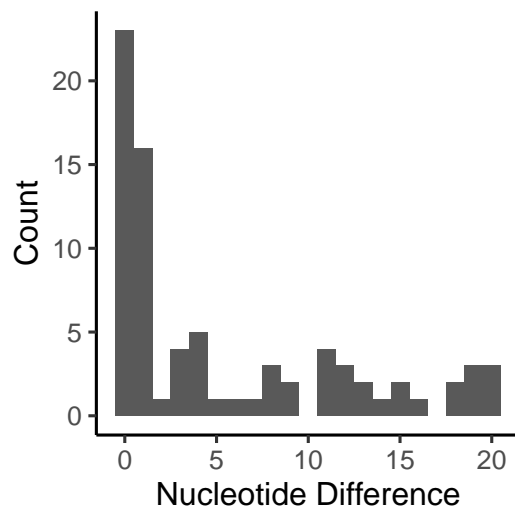
IGHV1-45*02

43 sequences assigned
4 (9.3%) exact matches, in which:
4 unique CDR3
3 unique J



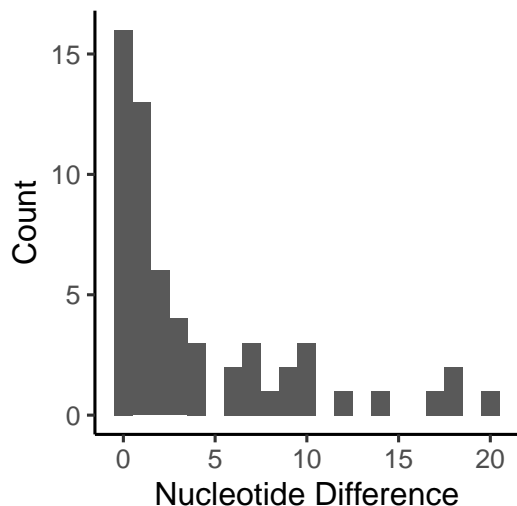
IGHV1-58*01

113 sequences assigned
23 (20.4%) exact matches, in which:
23 unique CDR3
4 unique J



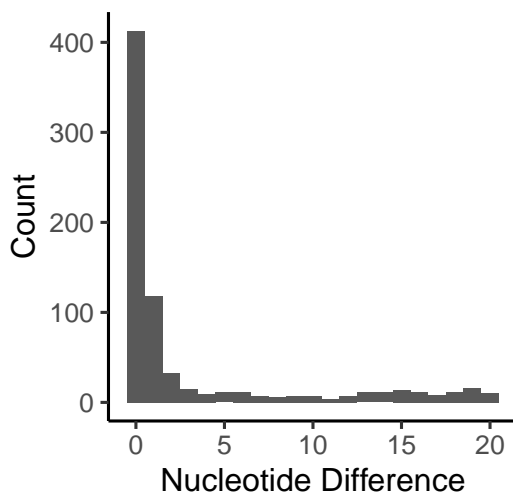
IGHV1-58*02

62 sequences assigned
16 (25.8%) exact matches, in which:
16 unique CDR3
4 unique J



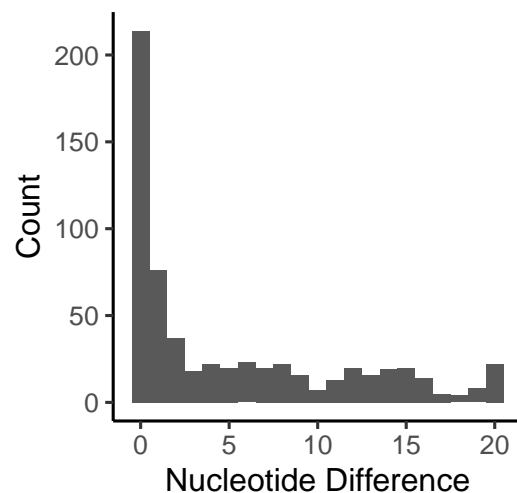
IGHV1-69*08_C191T

885 sequences assigned
413 (46.7%) exact matches, in which:
403 unique CDR3
6 unique J



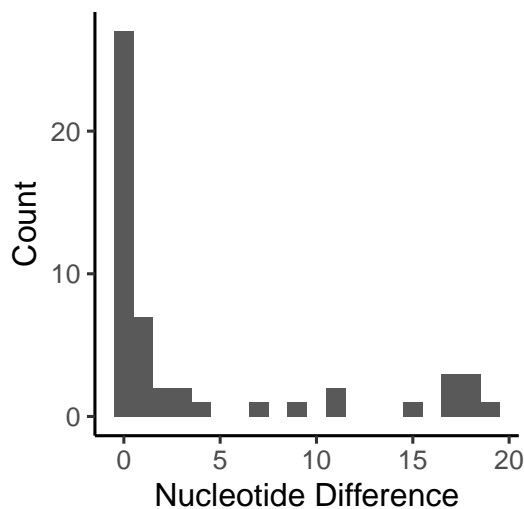
IGHV2-26*01

680 sequences assigned
214 (31.5%) exact matches, in which:
213 unique CDR3
5 unique J



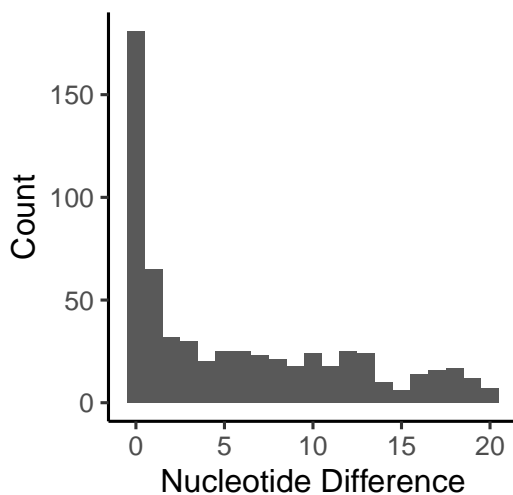
IGHV1-69-2*01

87 sequences assigned
27 (31%) exact matches, in which:
27 unique CDR3
5 unique J



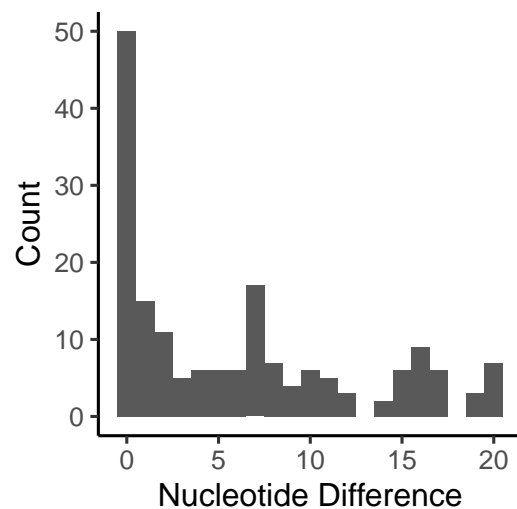
IGHV2-5*01

699 sequences assigned
181 (25.9%) exact matches, in which:
181 unique CDR3
6 unique J



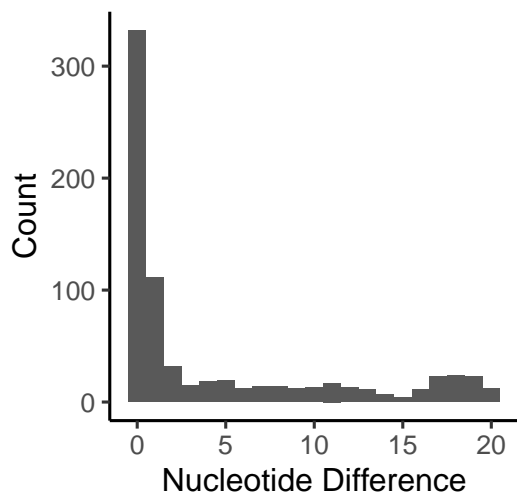
IGHV2-70*01

231 sequences assigned
50 (21.6%) exact matches, in which:
50 unique CDR3
6 unique J



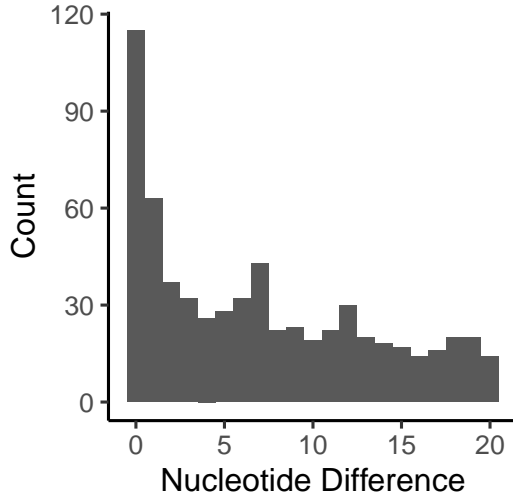
IGHV1-69*06

920 sequences assigned
332 (36.1%) exact matches, in which:
326 unique CDR3
6 unique J



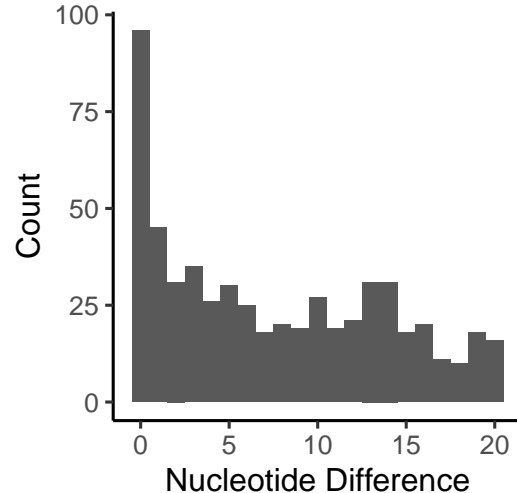
IGHV2-5*02

739 sequences assigned
115 (15.6%) exact matches, in which:
114 unique CDR3
6 unique J



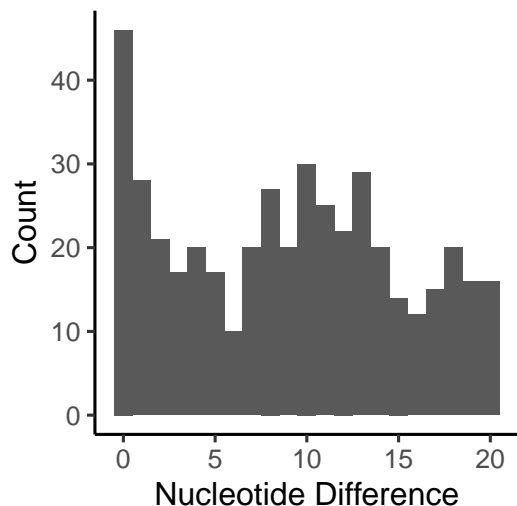
IGHV2-70*15

662 sequences assigned
96 (14.5%) exact matches, in which:
95 unique CDR3
6 unique J



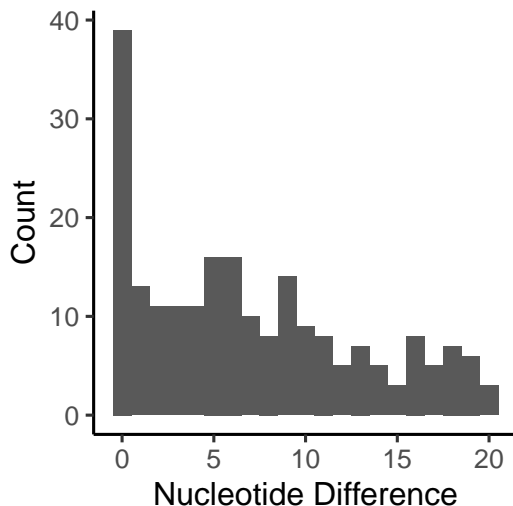
IGHV3-7*01

570 sequences assigned
46 (8.1%) exact matches, in which:
46 unique CDR3
6 unique J



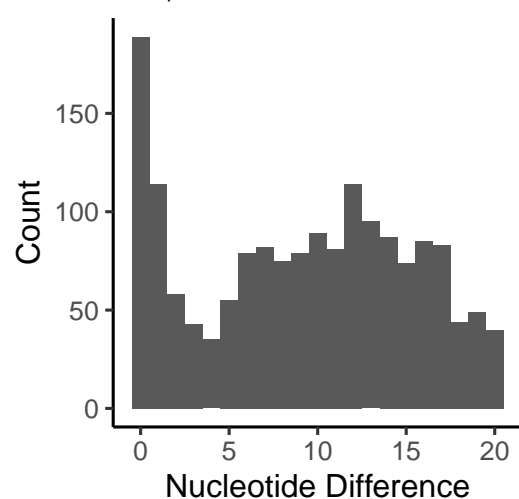
IGHV3-11*06

317 sequences assigned
39 (12.3%) exact matches, in which:
39 unique CDR3
4 unique J



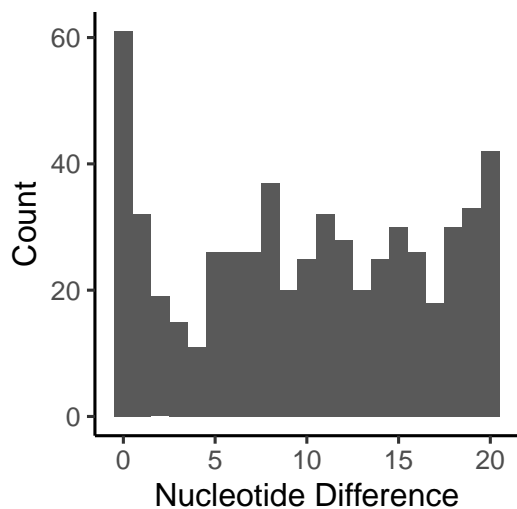
IGHV3-15*01

2003 sequences assigned
189 (9.4%) exact matches, in which:
187 unique CDR3
6 unique J



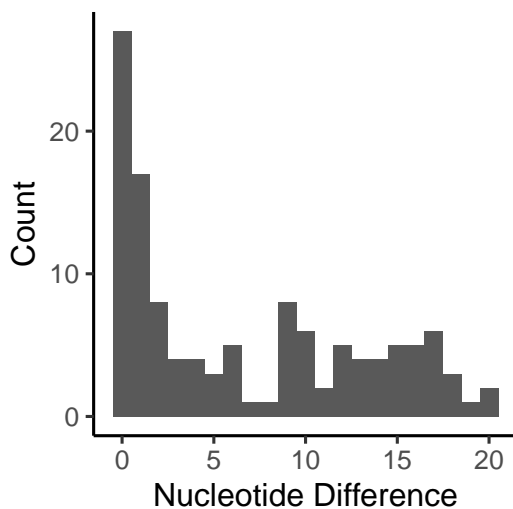
IGHV3-7*03

903 sequences assigned
61 (6.8%) exact matches, in which:
61 unique CDR3
5 unique J



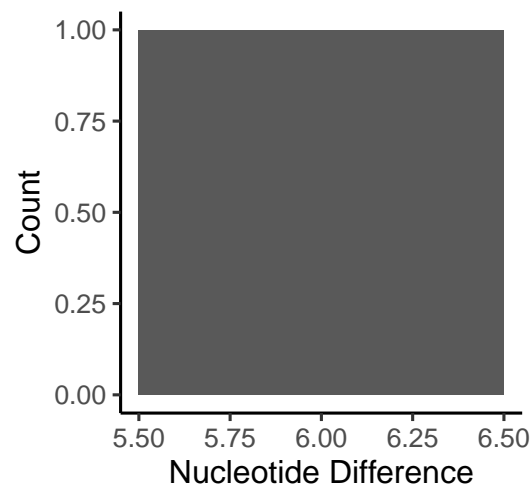
IGHV3-13*04

135 sequences assigned
27 (20%) exact matches, in which:
27 unique CDR3
5 unique J



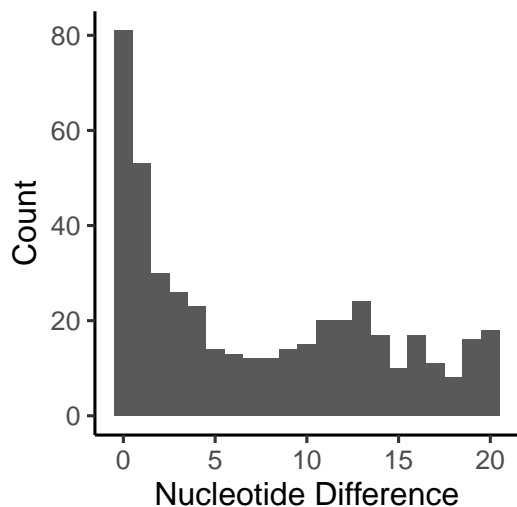
IGHV3-20*01

2 sequences assigned
No exact matches.



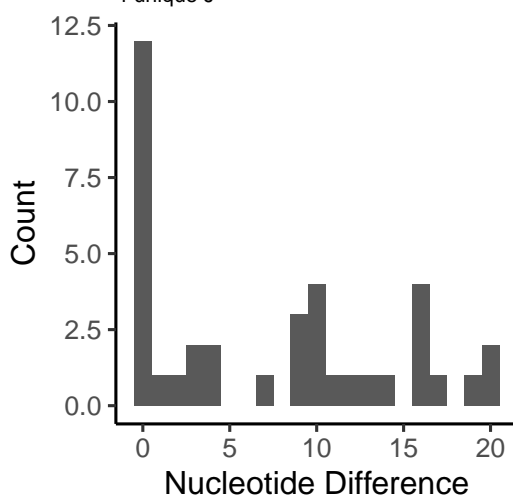
IGHV3-11*05

572 sequences assigned
81 (14.2%) exact matches, in which:
80 unique CDR3
5 unique J



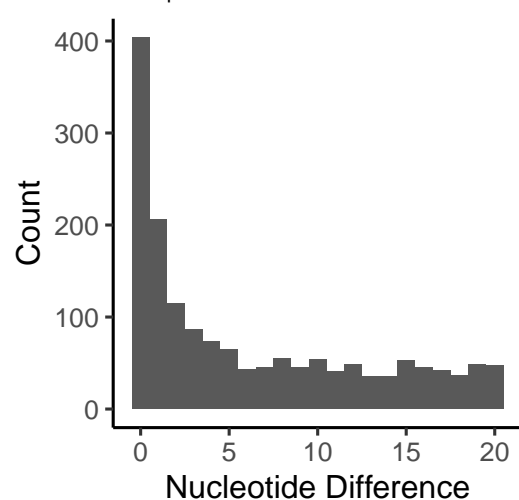
IGHV3-13*05

61 sequences assigned
12 (19.7%) exact matches, in which:
12 unique CDR3
4 unique J



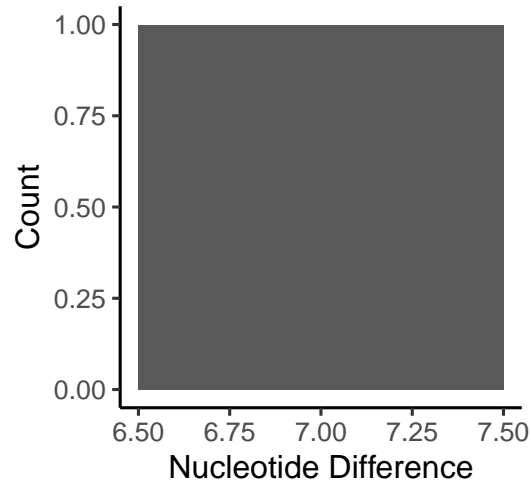
IGHV3-21*01

2112 sequences assigned
404 (19.1%) exact matches, in which:
395 unique CDR3
6 unique J



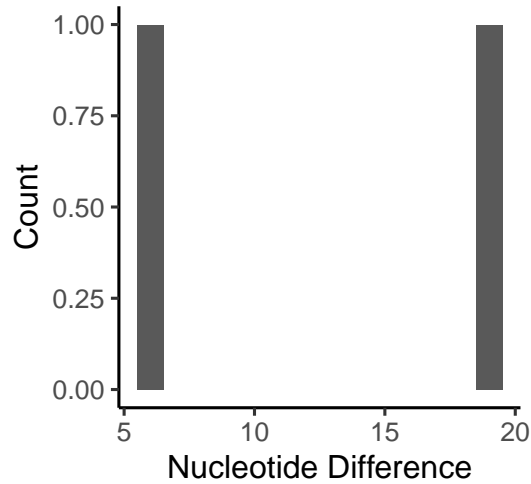
IGHV3-30-3*02

2 sequences assigned
No exact matches.



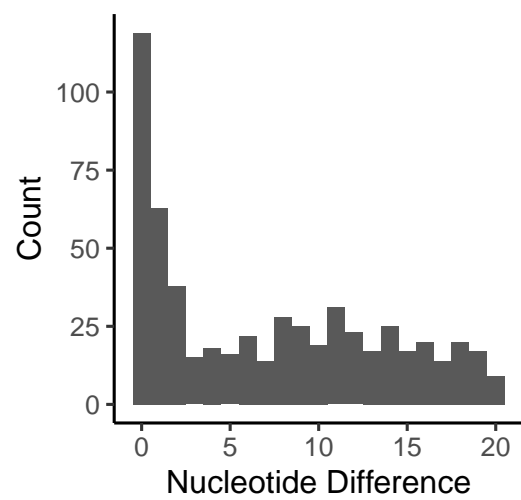
IGHV3-41*02

2 sequences assigned
No exact matches.



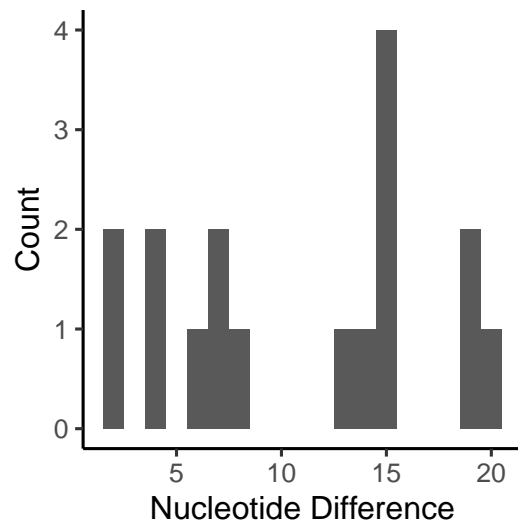
IGHV3-48*01

716 sequences assigned
119 (16.6%) exact matches, in which:
119 unique CDR3
5 unique J



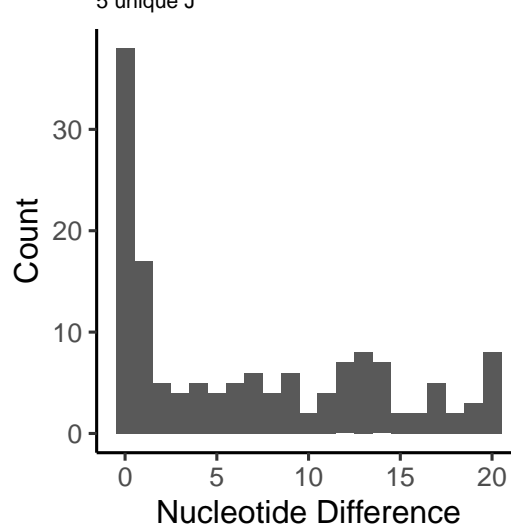
IGHV3-30-3*03

37 sequences assigned
No exact matches.



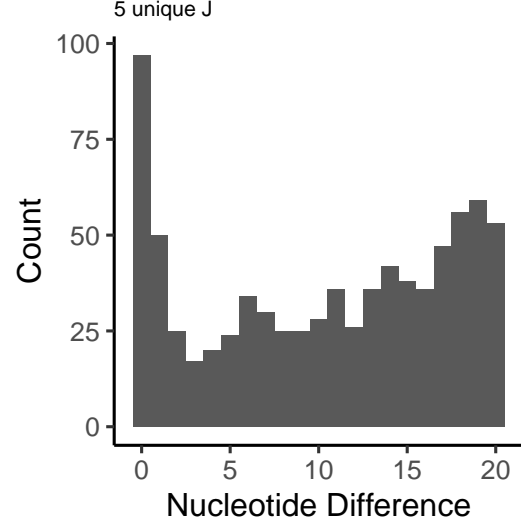
IGHV3-43*01

232 sequences assigned
38 (16.4%) exact matches, in which:
38 unique CDR3
5 unique J



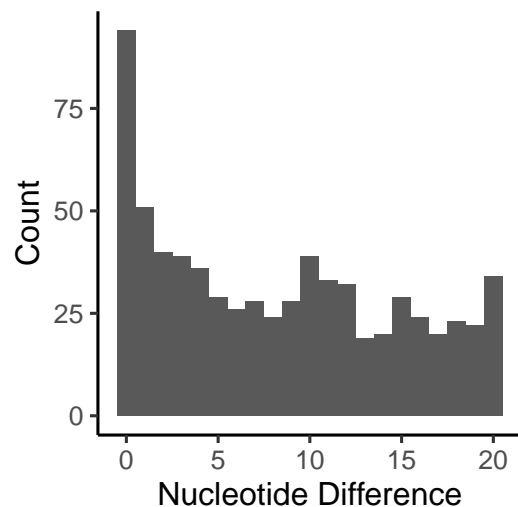
IGHV3-48*02

1069 sequences assigned
97 (9.1%) exact matches, in which:
97 unique CDR3
5 unique J



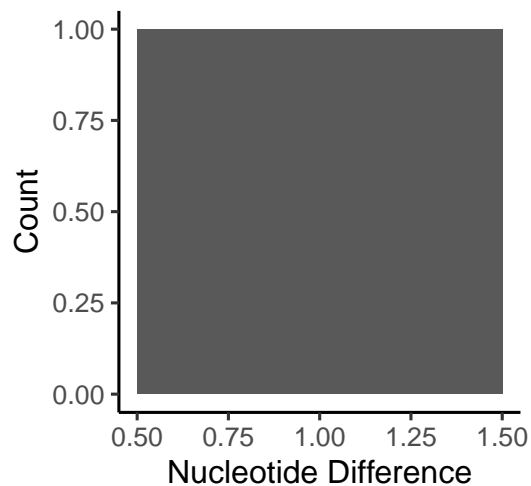
IGHV3-33*01

891 sequences assigned
94 (10.5%) exact matches, in which:
94 unique CDR3
6 unique J



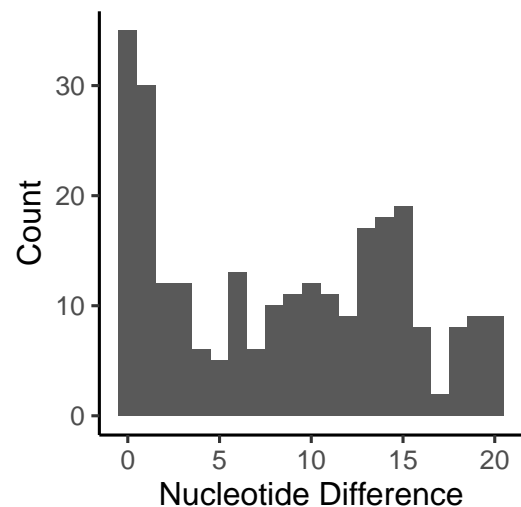
IGHV3-47*02

1 sequences assigned
No exact matches.



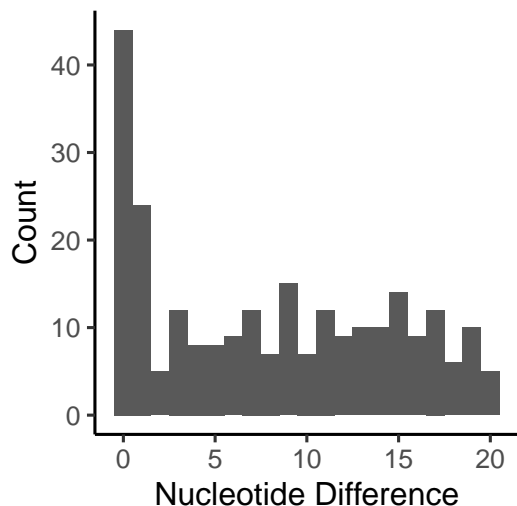
IGHV3-49*03

314 sequences assigned
35 (11.1%) exact matches, in which:
35 unique CDR3
4 unique J



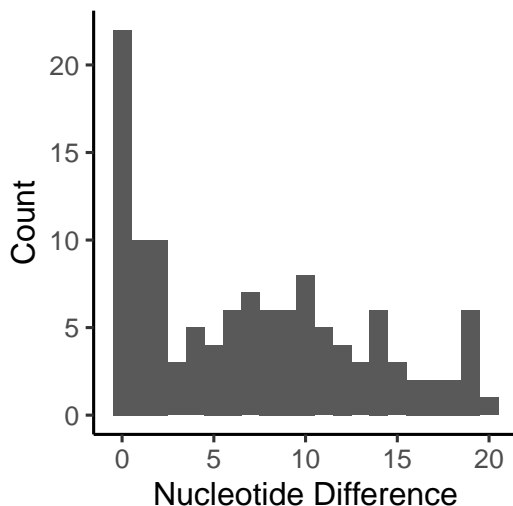
IGHV3-49*04

348 sequences assigned
44 (12.6%) exact matches, in which:
44 unique CDR3
4 unique J



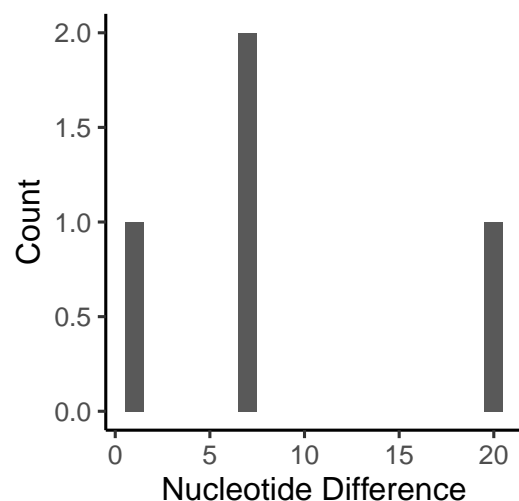
IGHV3-64*01

170 sequences assigned
22 (12.9%) exact matches, in which:
22 unique CDR3
4 unique J



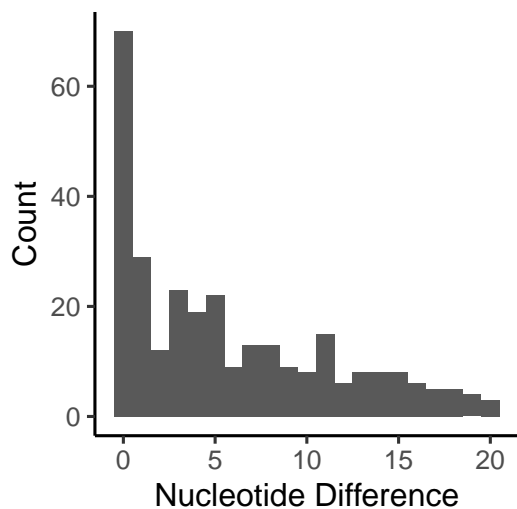
IGHV3-69-1*02

8 sequences assigned
No exact matches.



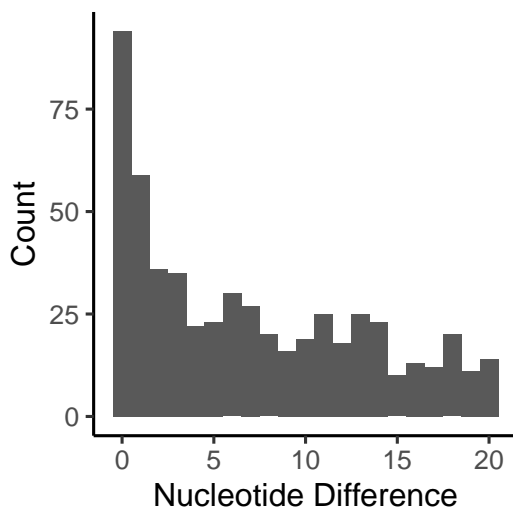
IGHV3-53*01

369 sequences assigned
70 (19%) exact matches, in which:
69 unique CDR3
5 unique J



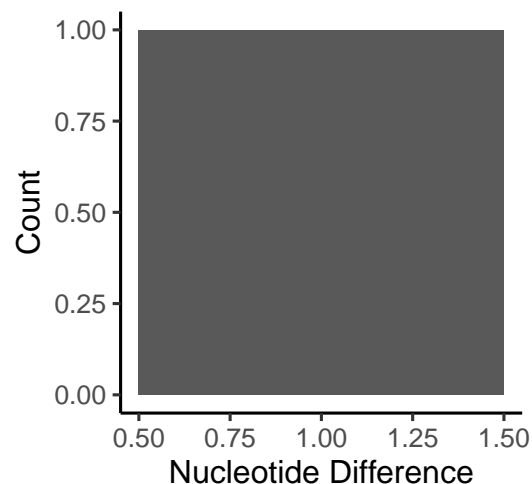
IGHV3-66*01

722 sequences assigned
94 (13%) exact matches, in which:
91 unique CDR3
6 unique J



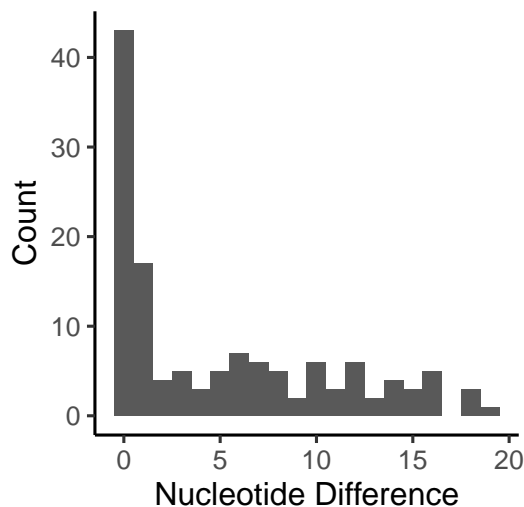
IGHV3-71*02

1 sequences assigned
No exact matches.



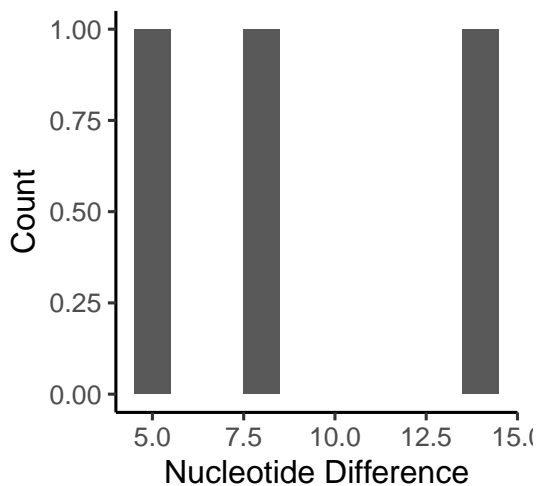
IGHV3-53*04

174 sequences assigned
43 (24.7%) exact matches, in which:
43 unique CDR3
6 unique J



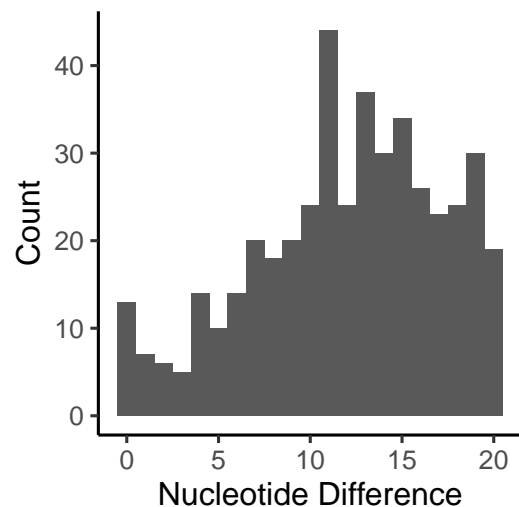
IGHV3-69-1*01

6 sequences assigned
No exact matches.



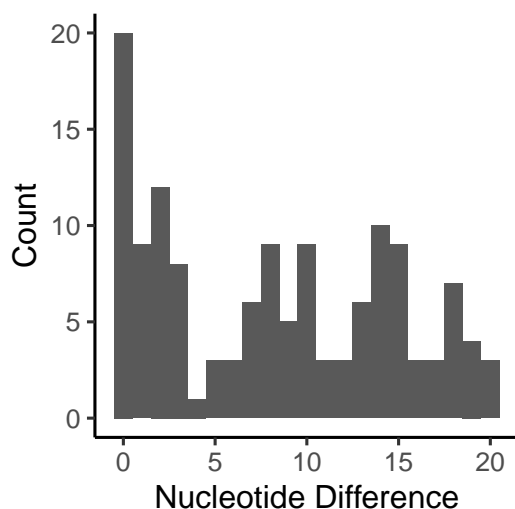
IGHV3-72*01

535 sequences assigned
13 (2.4%) exact matches, in which:
11 unique CDR3
4 unique J



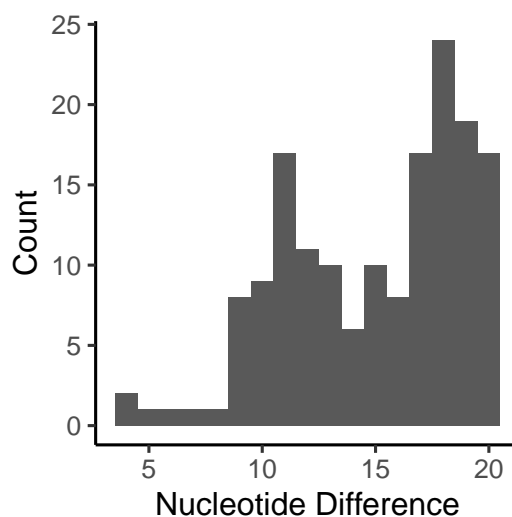
IGHV3-73*01

177 sequences assigned
20 (11.3%) exact matches, in which:
20 unique CDR3
4 unique J



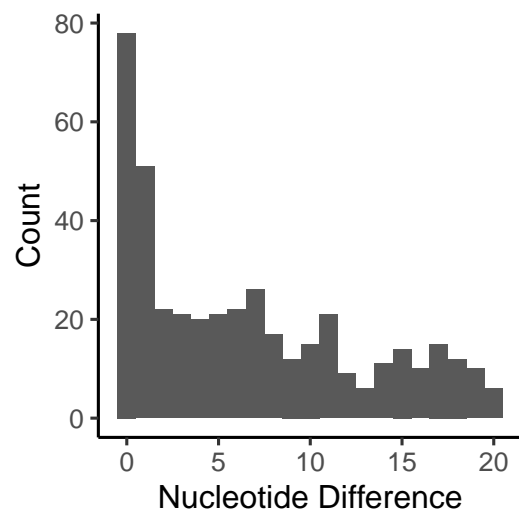
IGHV3-74*03

215 sequences assigned
No exact matches.



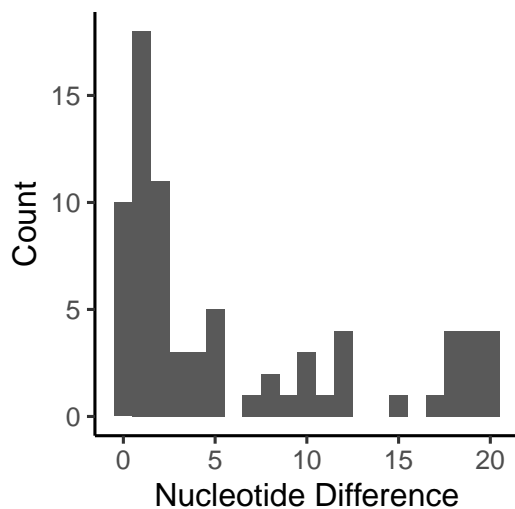
IGHV4-4*07

545 sequences assigned
78 (14.3%) exact matches, in which:
76 unique CDR3
5 unique J



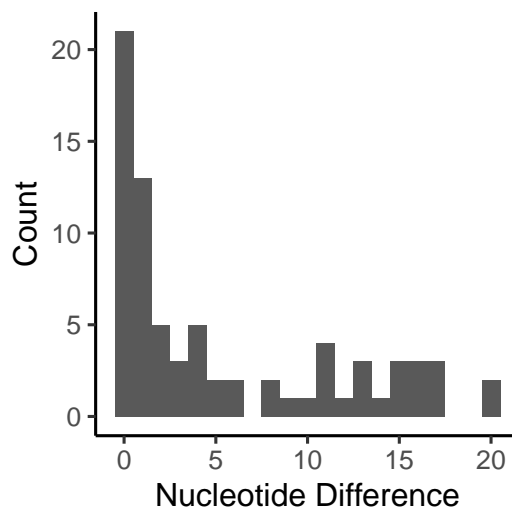
IGHV3-73*02

108 sequences assigned
10 (9.3%) exact matches, in which:
10 unique CDR3
3 unique J



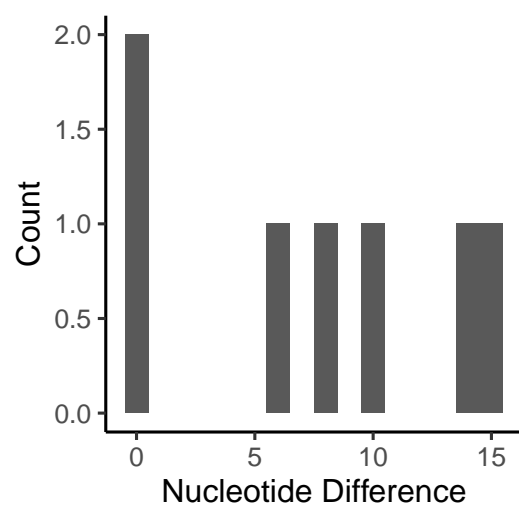
IGHV3-43D*03

97 sequences assigned
21 (21.6%) exact matches, in which:
21 unique CDR3
5 unique J



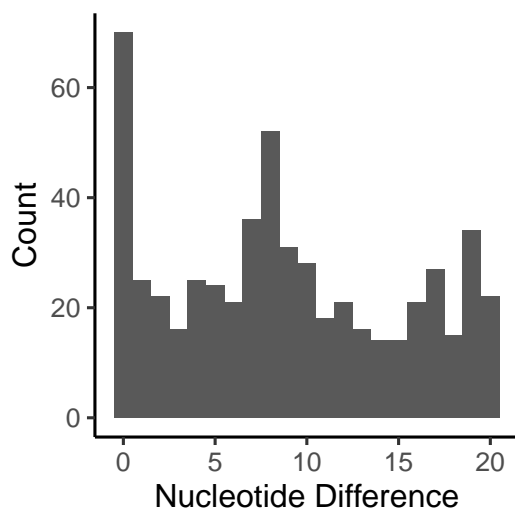
IGHV4-28*01

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



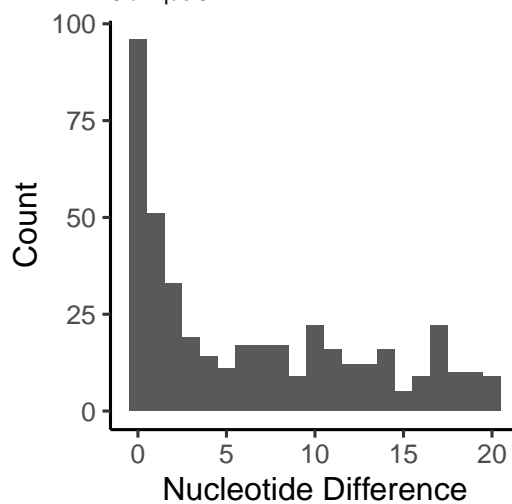
IGHV3-74*01

710 sequences assigned
70 (9.9%) exact matches, in which:
69 unique CDR3
6 unique J



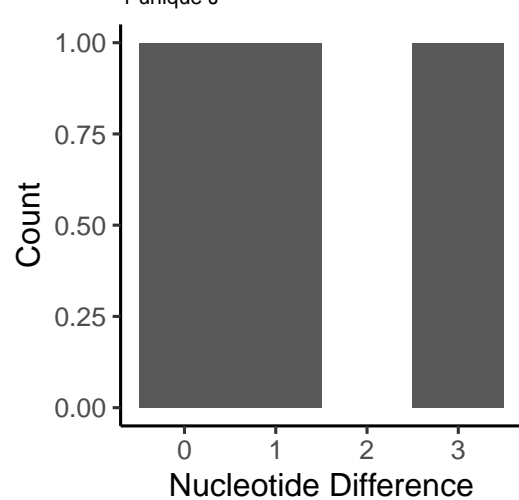
IGHV3-64D*09

534 sequences assigned
96 (18%) exact matches, in which:
96 unique CDR3
6 unique J



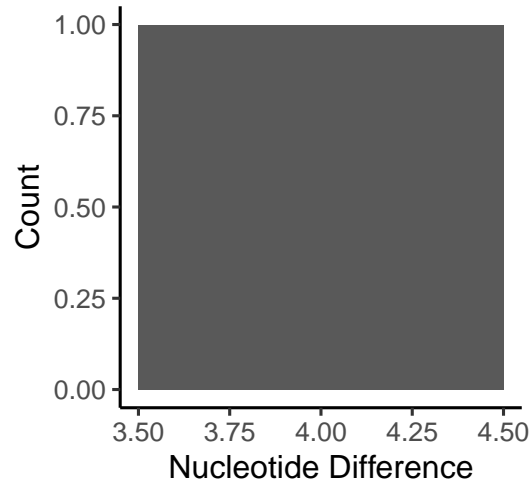
IGHV4-28*03

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



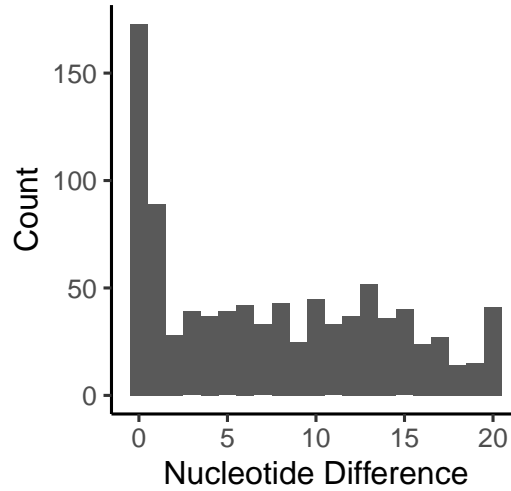
IGHV4-30-2*01

1 sequences assigned
No exact matches.



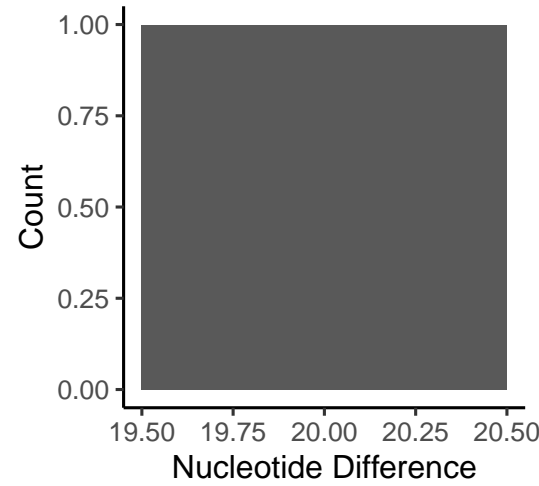
IGHV4-38-2*02

1171 sequences assigned
173 (14.8%) exact matches, in which:
173 unique CDR3
6 unique J



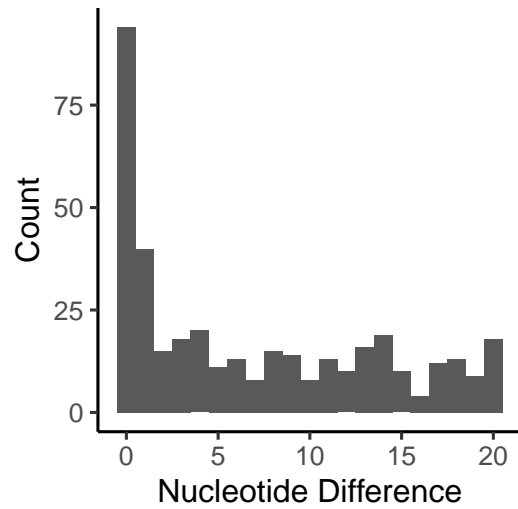
IGHV4-55*01

1 sequences assigned
No exact matches.



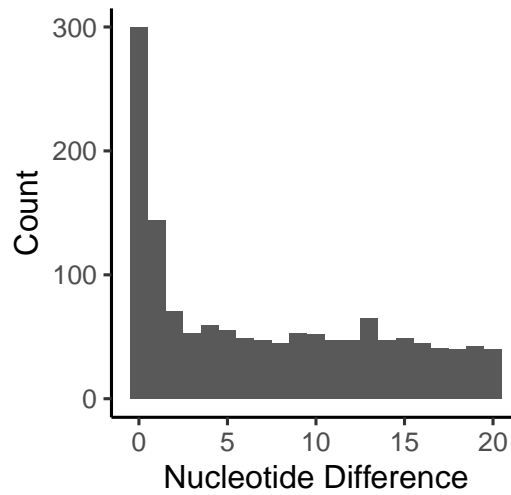
IGHV4-31*03

622 sequences assigned
94 (15.1%) exact matches, in which:
93 unique CDR3
5 unique J



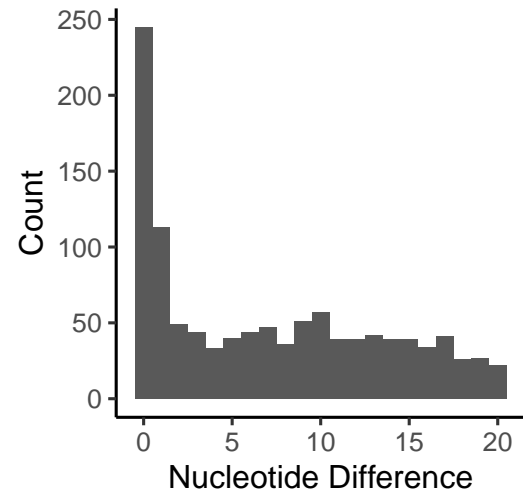
IGHV4-39*01

1885 sequences assigned
300 (15.9%) exact matches, in which:
299 unique CDR3
6 unique J



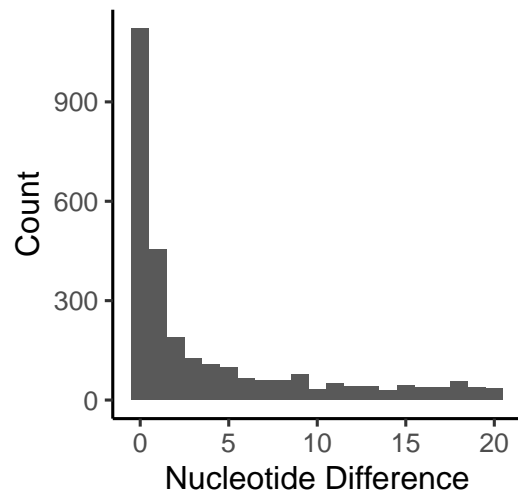
IGHV4-59*01

1521 sequences assigned
245 (16.1%) exact matches, in which:
244 unique CDR3
6 unique J



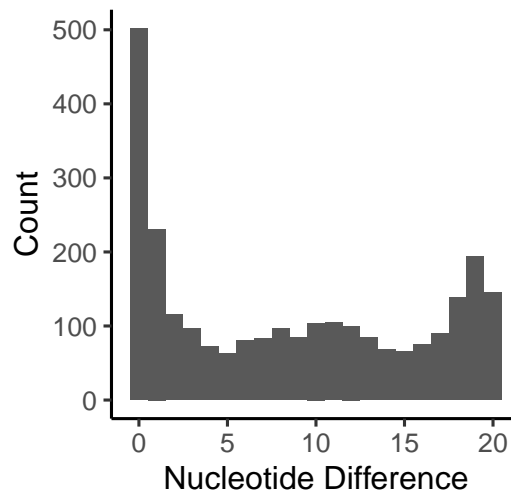
IGHV4-34*01

3277 sequences assigned
1122 (34.2%) exact matches, in which:
1097 unique CDR3
6 unique J



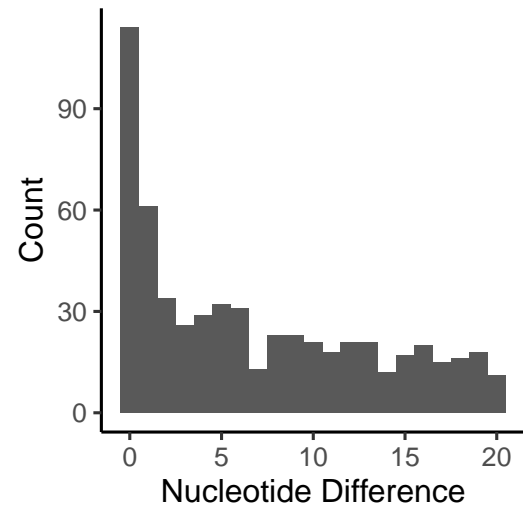
IGHV4-39*07

3920 sequences assigned
502 (12.8%) exact matches, in which:
499 unique CDR3
6 unique J



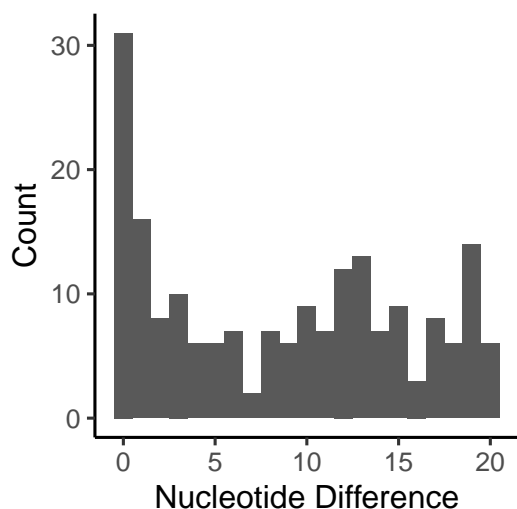
IGHV4-59*08

760 sequences assigned
114 (15%) exact matches, in which:
114 unique CDR3
6 unique J



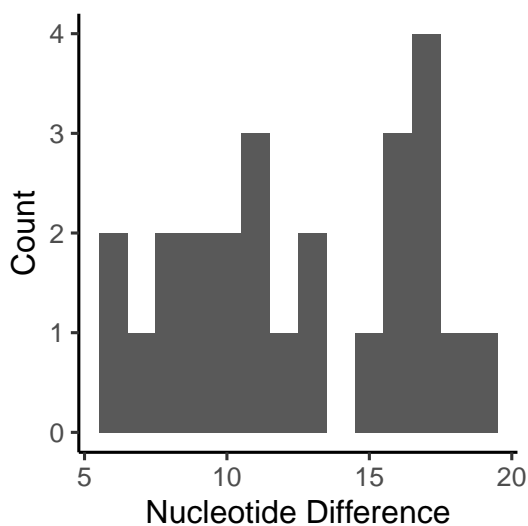
IGHV4-61*01

293 sequences assigned
31 (10.6%) exact matches, in which:
31 unique CDR3
5 unique J



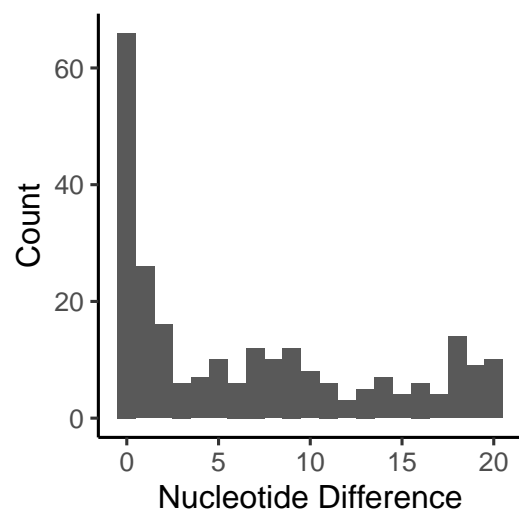
IGHV4/OR15-8*01

29 sequences assigned
No exact matches.



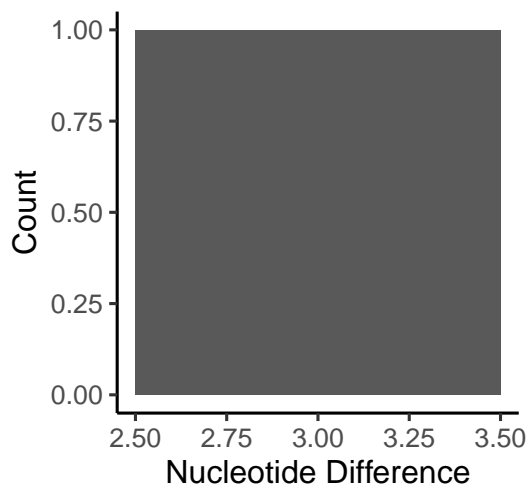
IGHV5-10-1*01

304 sequences assigned
66 (21.7%) exact matches, in which:
66 unique CDR3
6 unique J



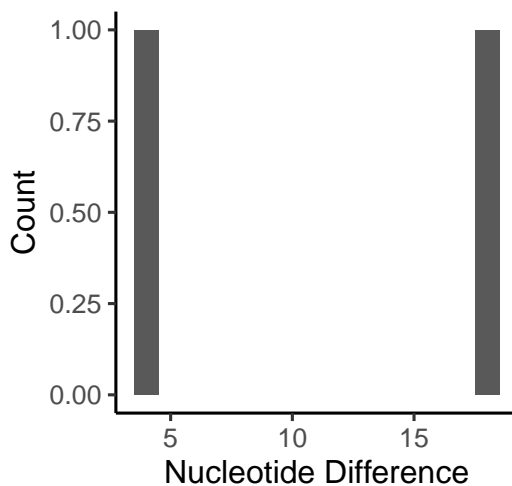
IGHV1/OR15-1*04

1 sequences assigned
No exact matches.



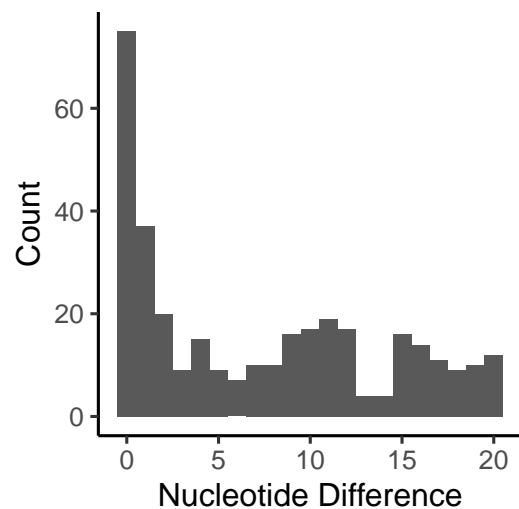
IGHV4/OR15-8*02

2 sequences assigned
No exact matches.



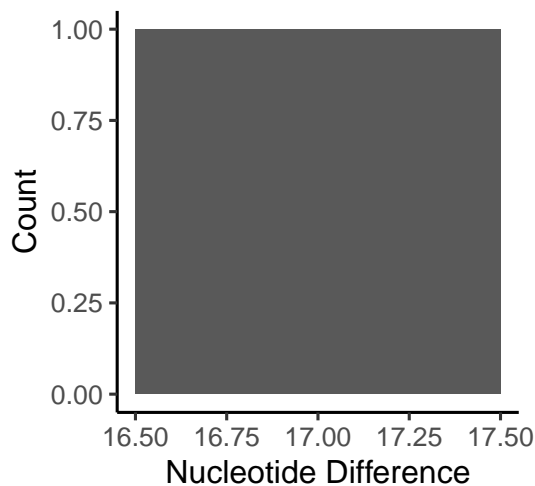
IGHV5-10-1*03

527 sequences assigned
75 (14.2%) exact matches, in which:
75 unique CDR3
6 unique J



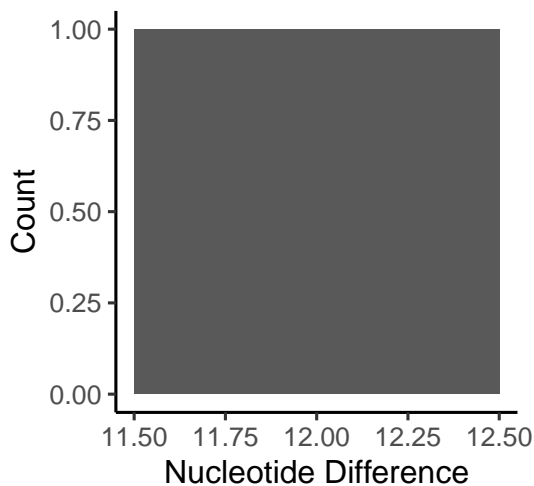
IGHV1/OR15-2*01

1 sequences assigned
No exact matches.



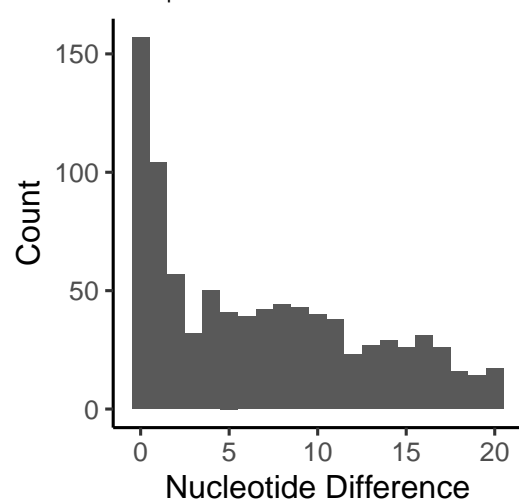
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



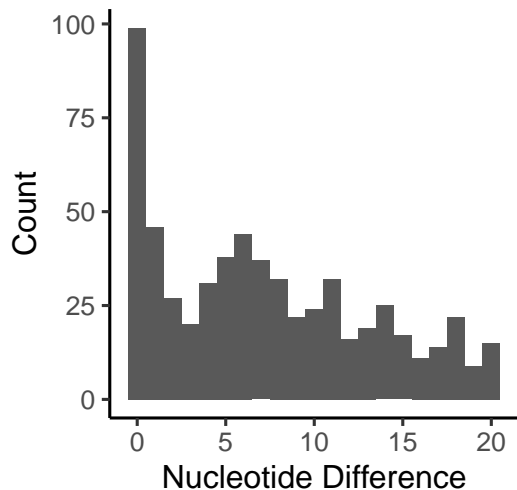
IGHV5-51*01

1115 sequences assigned
157 (14.1%) exact matches, in which:
157 unique CDR3
6 unique J



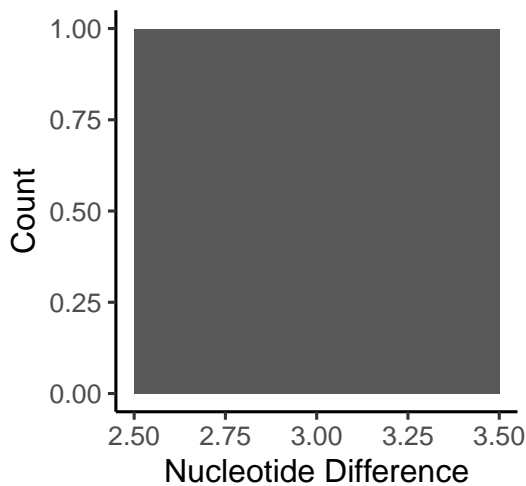
IGHV5–51*03

786 sequences assigned
99 (12.6%) exact matches, in which:
99 unique CDR3
6 unique J



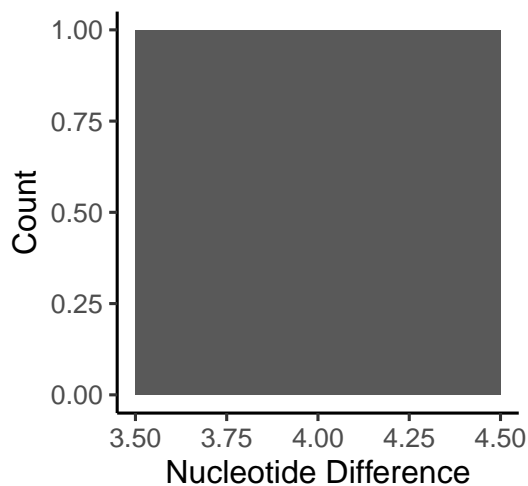
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



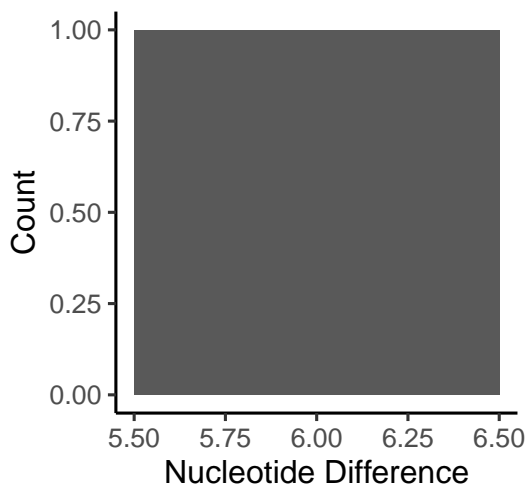
IGHV5–78*01

2 sequences assigned
No exact matches.



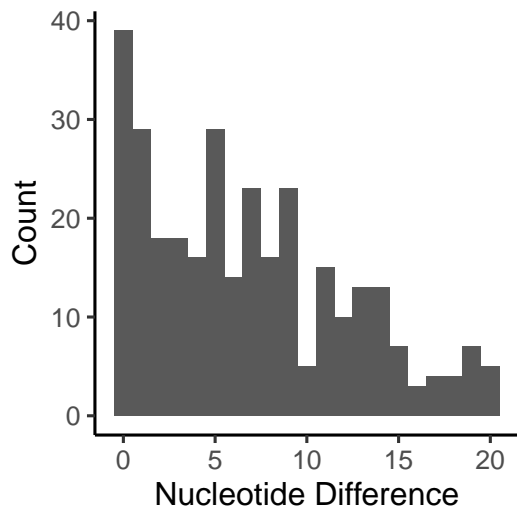
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



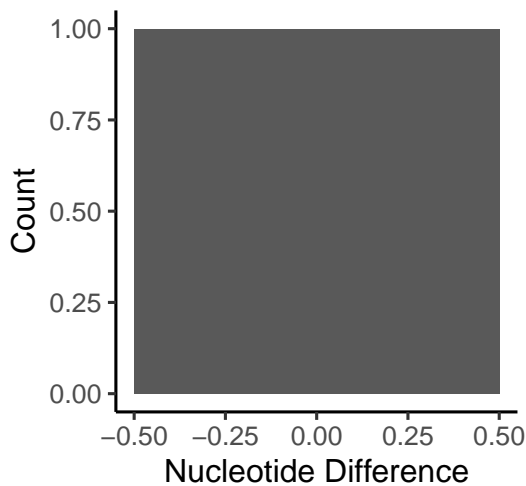
IGHV6–1*01

326 sequences assigned
39 (12%) exact matches, in which:
38 unique CDR3
5 unique J



IGHV7–40*03

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





Warning – no inferred sequences found.