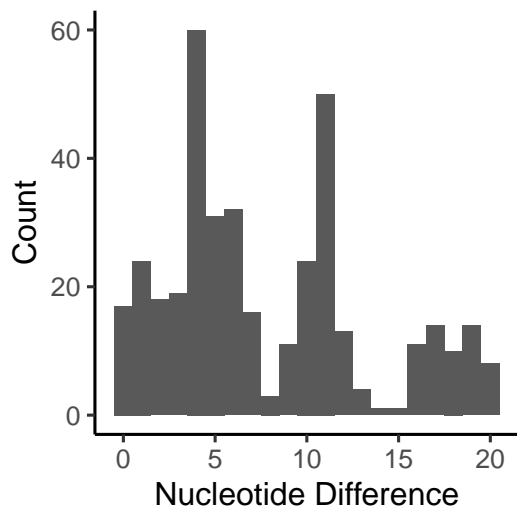


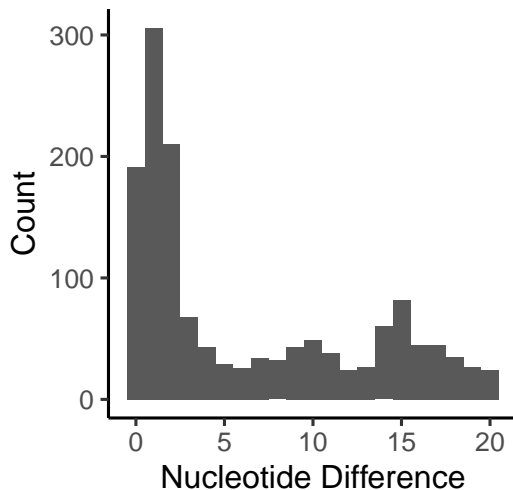
IGHV1-2*04

420 sequences assigned
17 (4%) exact matches, in which:
11 unique CDR3
4 unique J



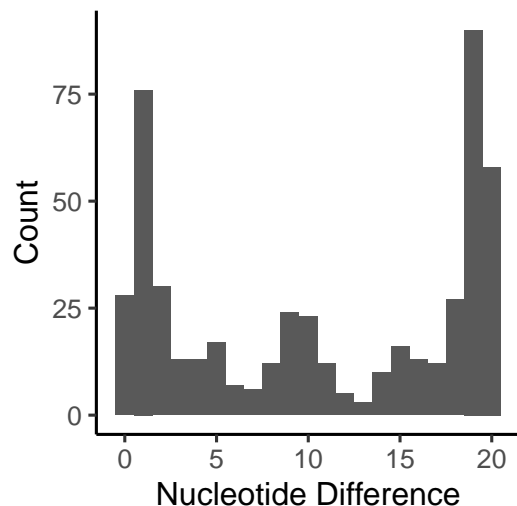
IGHV1-18*01

1986 sequences assigned
191 (9.6%) exact matches, in which:
108 unique CDR3
6 unique J



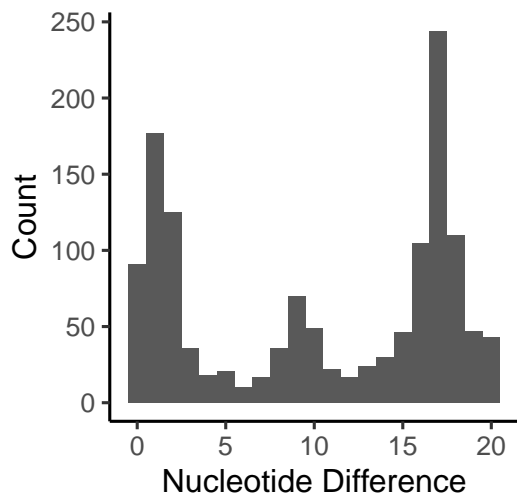
IGHV1-46*01

777 sequences assigned
28 (3.6%) exact matches, in which:
19 unique CDR3
5 unique J



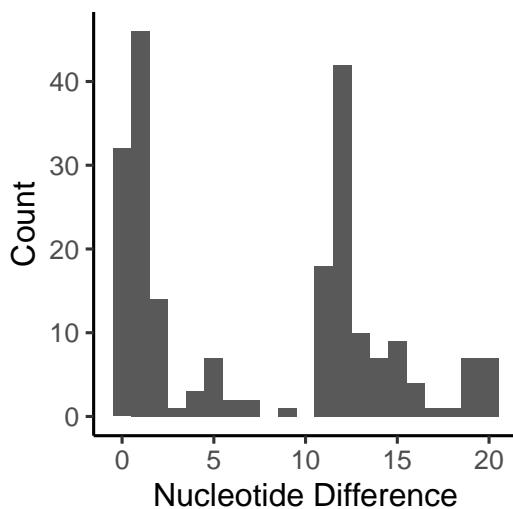
IGHV1-3*01

1720 sequences assigned
91 (5.3%) exact matches, in which:
63 unique CDR3
5 unique J



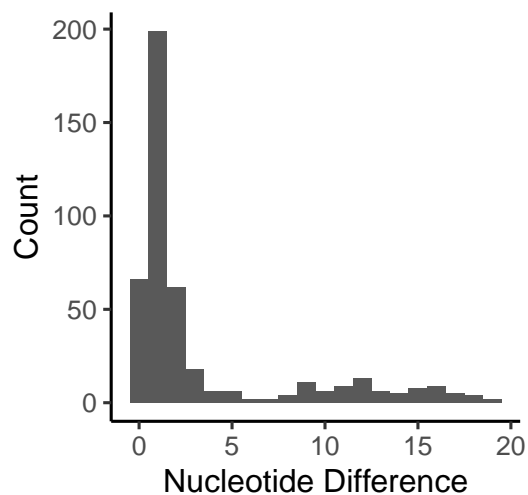
IGHV1-24*01

220 sequences assigned
32 (14.5%) exact matches, in which:
23 unique CDR3
4 unique J



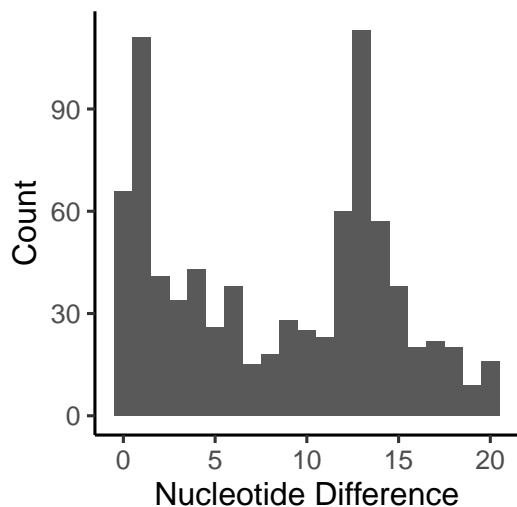
IGHV1-46*03

516 sequences assigned
66 (12.8%) exact matches, in which:
42 unique CDR3
4 unique J



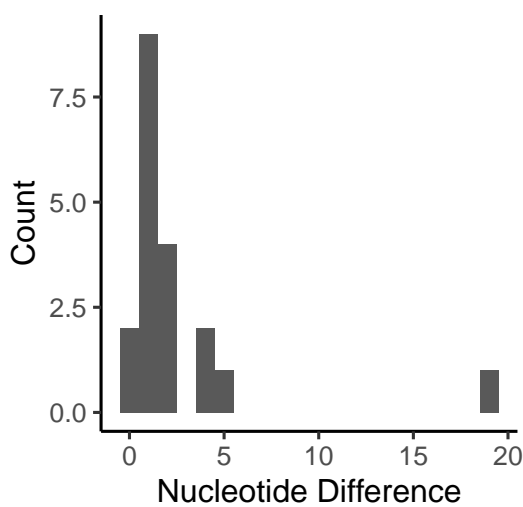
IGHV1-8*01

936 sequences assigned
66 (7.1%) exact matches, in which:
49 unique CDR3
5 unique J



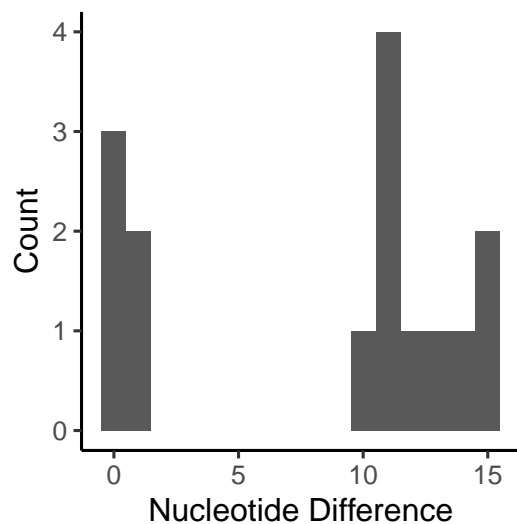
IGHV1-45*02

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



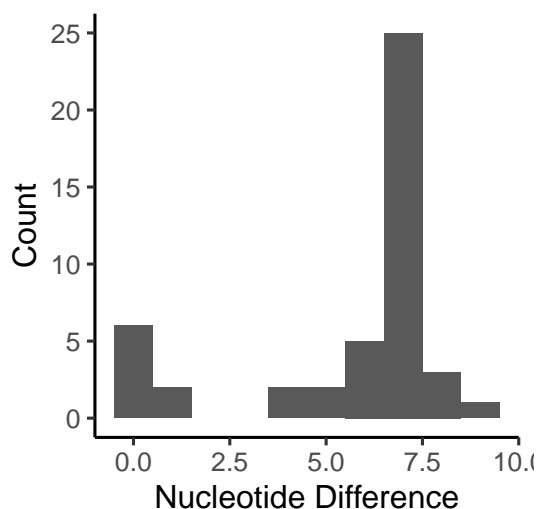
IGHV1-58*01

16 sequences assigned
3 (18.8%) exact matches, in which:
2 unique CDR3
1 unique J



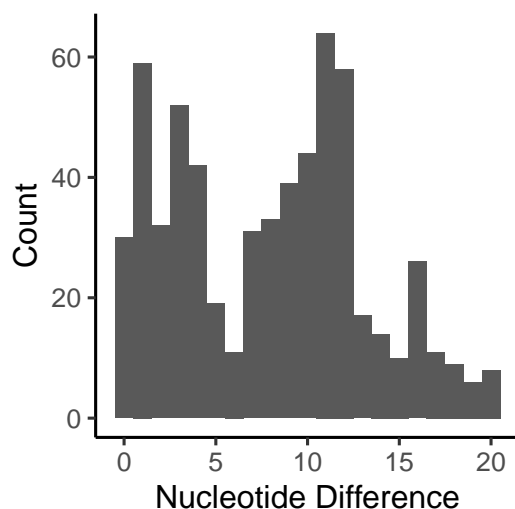
IGHV1-58*02

54 sequences assigned
6 (11.1%) exact matches, in which:
4 unique CDR3
1 unique J



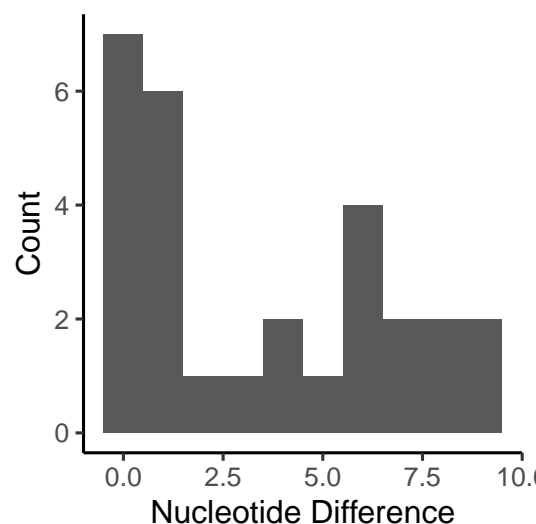
IGHV2-5*02

685 sequences assigned
30 (4.4%) exact matches, in which:
24 unique CDR3
5 unique J



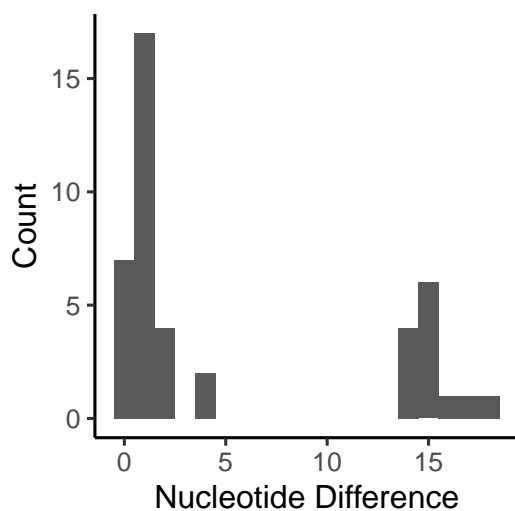
IGHV2-70*15

28 sequences assigned
7 (25%) exact matches, in which:
7 unique CDR3
2 unique J



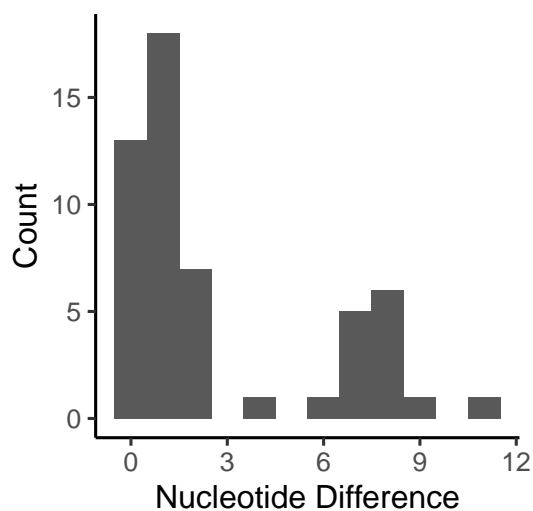
IGHV1-69-2*01

53 sequences assigned
7 (13.2%) exact matches, in which:
5 unique CDR3
2 unique J



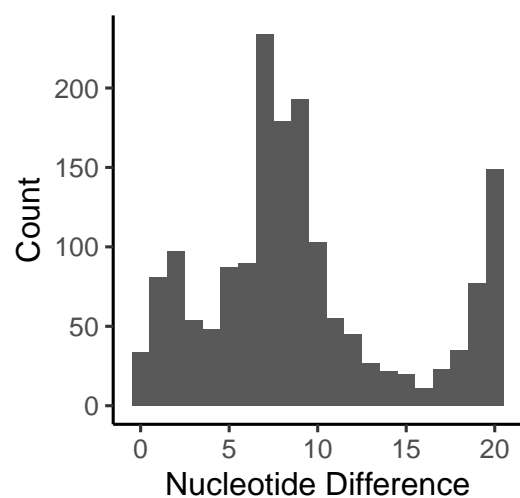
IGHV2-26*01

54 sequences assigned
13 (24.1%) exact matches, in which:
5 unique CDR3
3 unique J



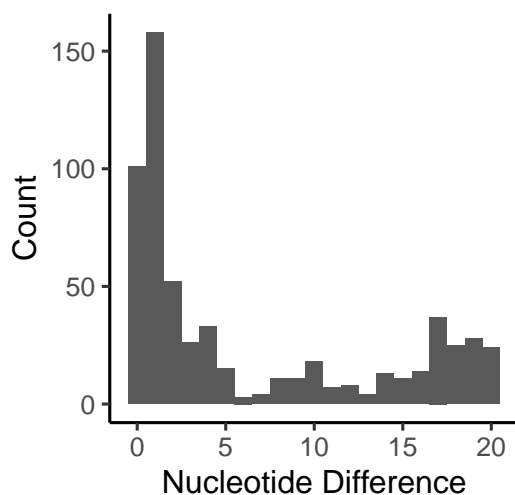
IGHV3-7*01

2122 sequences assigned
34 (1.6%) exact matches, in which:
30 unique CDR3
4 unique J



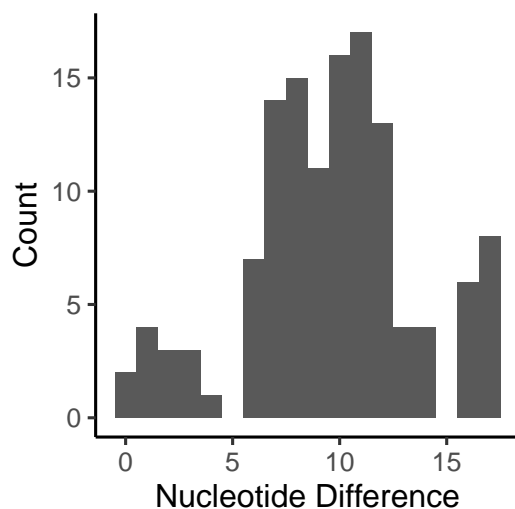
IGHV1-69*06

941 sequences assigned
101 (10.7%) exact matches, in which:
68 unique CDR3
5 unique J



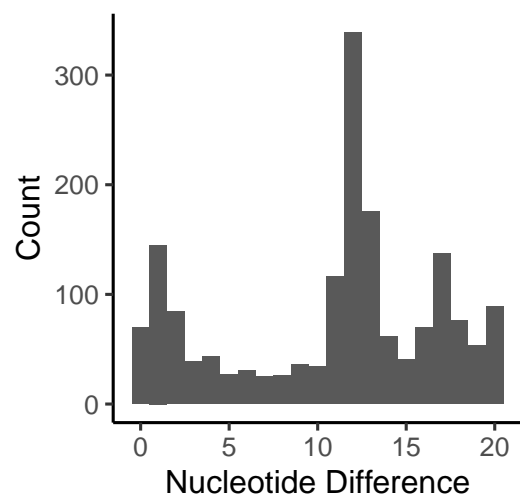
IGHV2-70*01

128 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
1 unique J



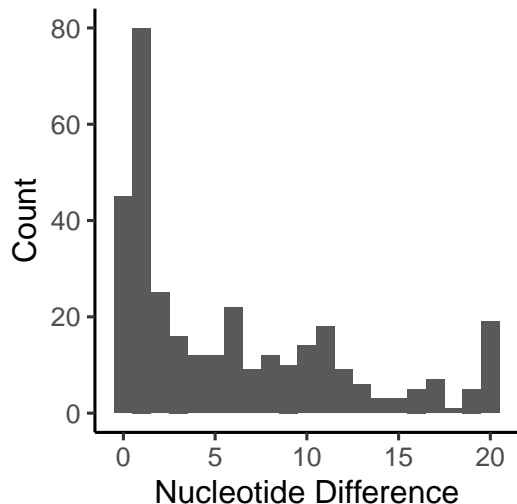
IGHV3-7*03

1917 sequences assigned
70 (3.7%) exact matches, in which:
51 unique CDR3
5 unique J



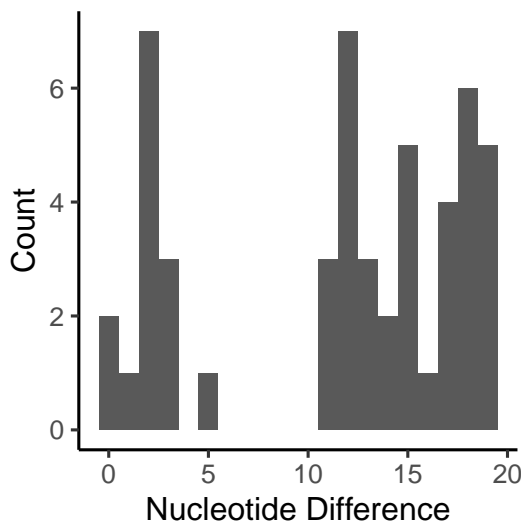
IGHV3-9*01

447 sequences assigned
45 (10.1%) exact matches, in which:
38 unique CDR3
6 unique J



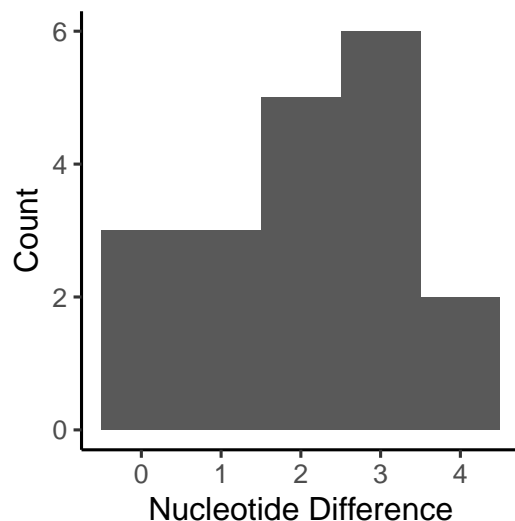
IGHV3-13*01

51 sequences assigned
2 (3.9%) exact matches, in which:
2 unique CDR3
1 unique J



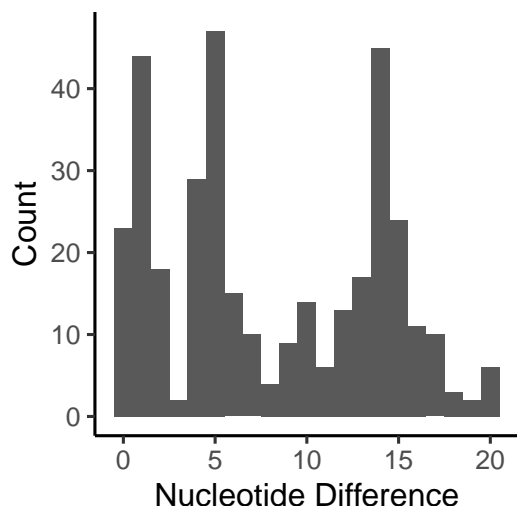
IGHV3-20*01

19 sequences assigned
3 (15.8%) exact matches, in which:
2 unique CDR3
2 unique J



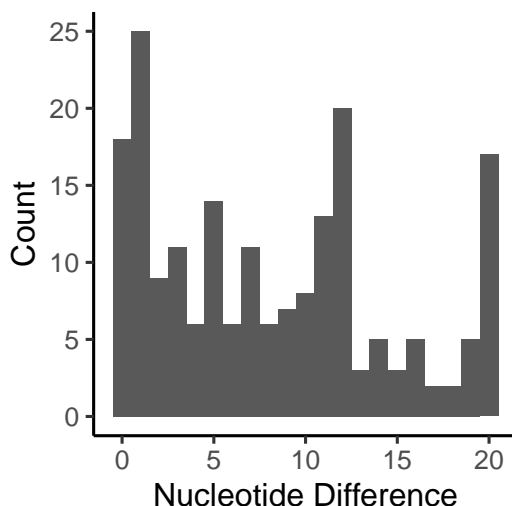
IGHV3-11*01

417 sequences assigned
23 (5.5%) exact matches, in which:
19 unique CDR3
3 unique J



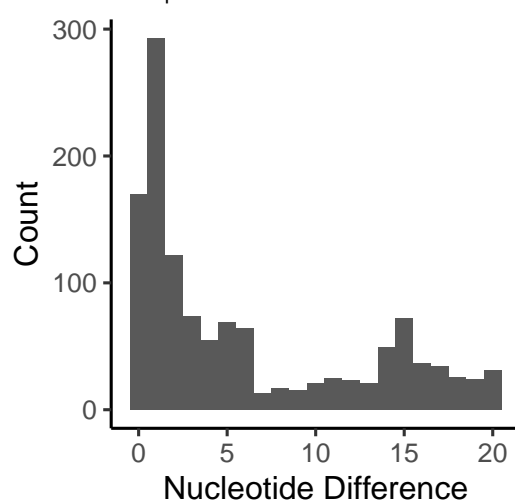
IGHV3-15*01

311 sequences assigned
18 (5.8%) exact matches, in which:
16 unique CDR3
3 unique J



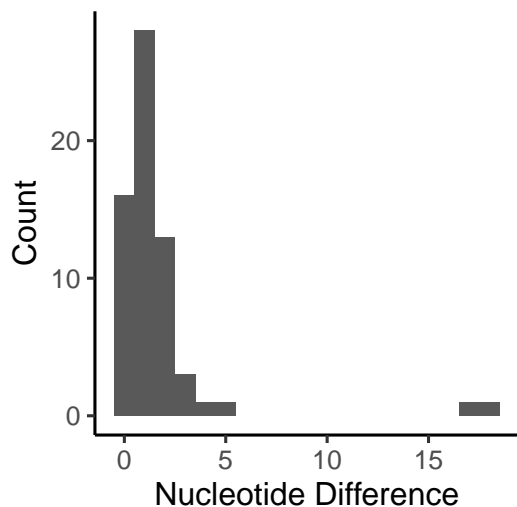
IGHV3-21*01

1313 sequences assigned
170 (12.9%) exact matches, in which:
99 unique CDR3
5 unique J



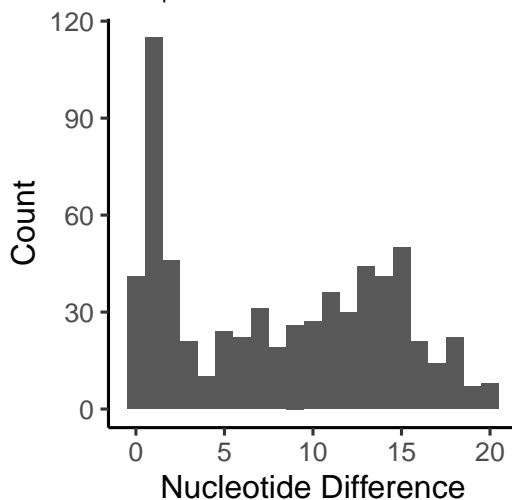
IGHV3-11*06

67 sequences assigned
16 (23.9%) exact matches, in which:
12 unique CDR3
3 unique J



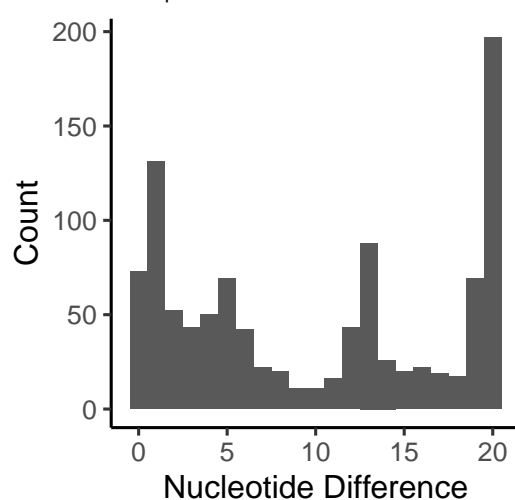
IGHV3-15*07

753 sequences assigned
41 (5.4%) exact matches, in which:
34 unique CDR3
6 unique J



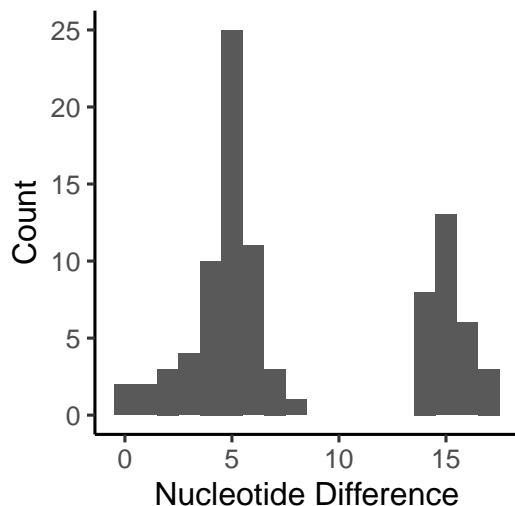
IGHV3-33*01

1227 sequences assigned
73 (5.9%) exact matches, in which:
49 unique CDR3
5 unique J



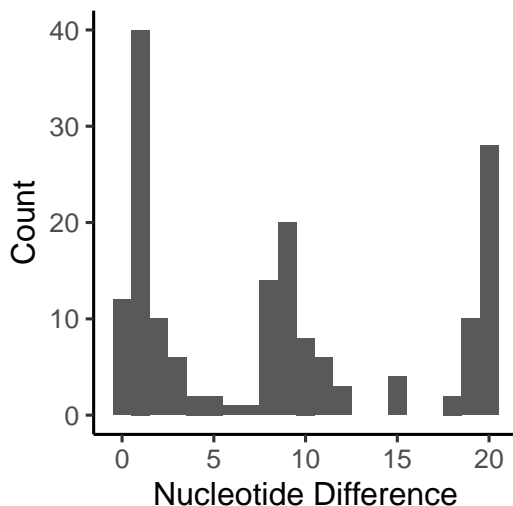
IGHV3-43*01

150 sequences assigned
2 (1.3%) exact matches, in which:
2 unique CDR3
1 unique J



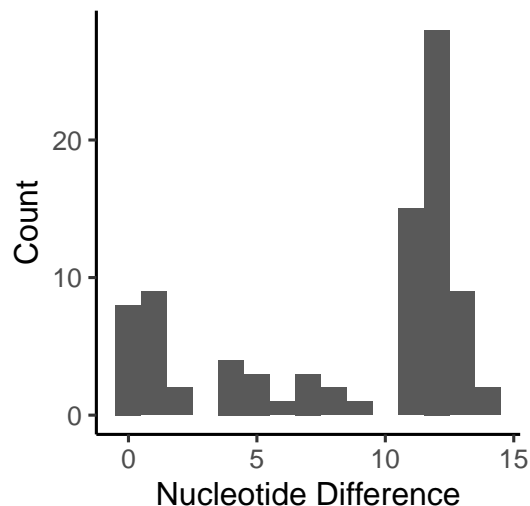
IGHV3-49*05

238 sequences assigned
12 (5%) exact matches, in which:
9 unique CDR3
2 unique J



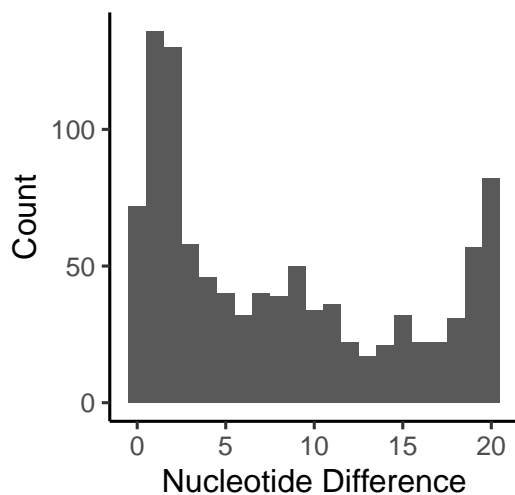
IGHV3-64*01

136 sequences assigned
8 (5.9%) exact matches, in which:
5 unique CDR3
3 unique J



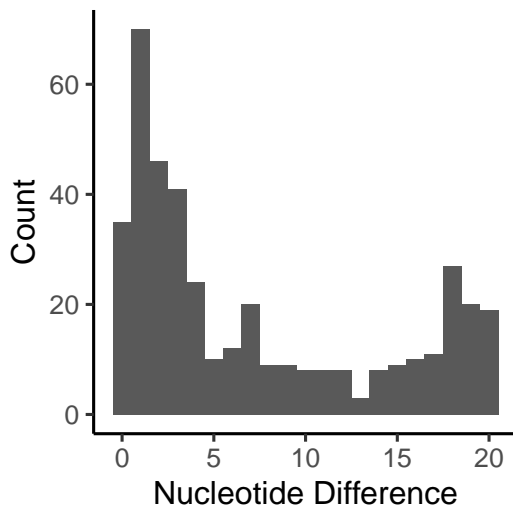
IGHV3-48*02

1172 sequences assigned
72 (6.1%) exact matches, in which:
54 unique CDR3
6 unique J



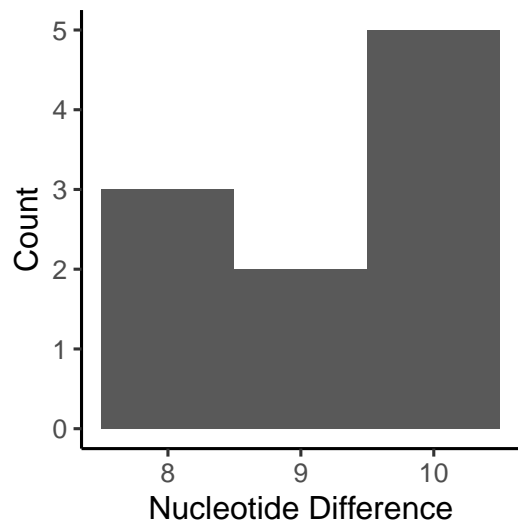
IGHV3-53*01

488 sequences assigned
35 (7.2%) exact matches, in which:
28 unique CDR3
4 unique J



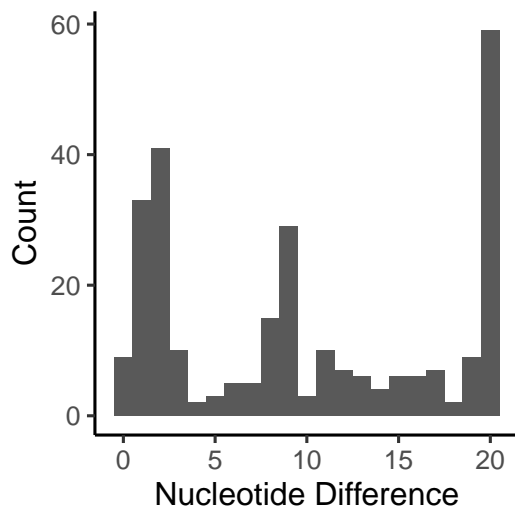
IGHV3-64*07

11 sequences assigned
No exact matches.



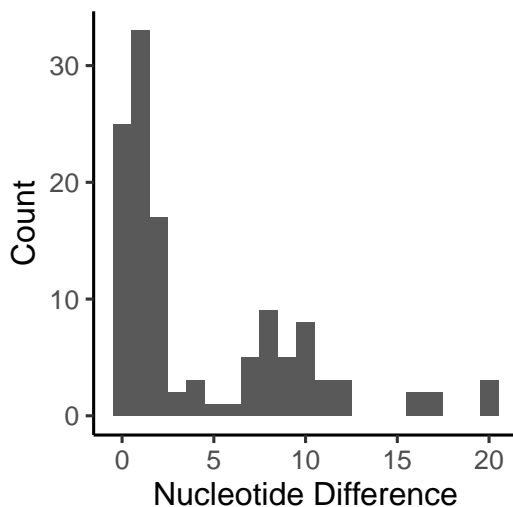
IGHV3-49*04

549 sequences assigned
9 (1.6%) exact matches, in which:
4 unique CDR3
3 unique J



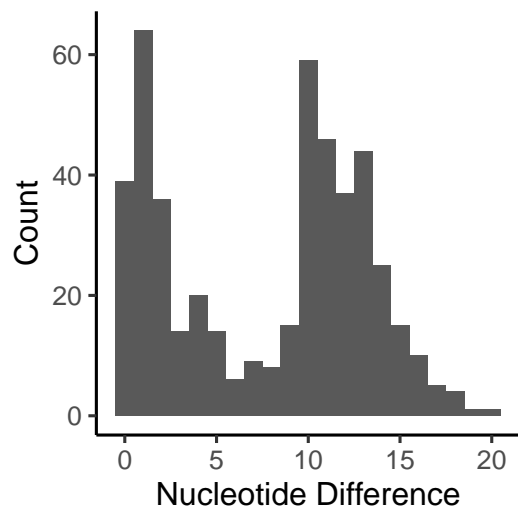
IGHV3-53*04

134 sequences assigned
25 (18.7%) exact matches, in which:
21 unique CDR3
4 unique J



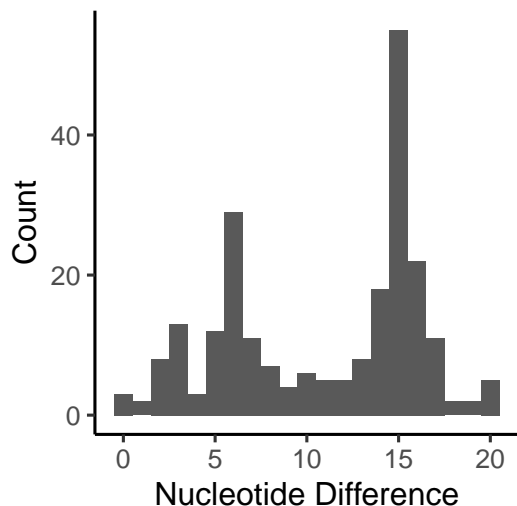
IGHV3-66*01

504 sequences assigned
39 (7.7%) exact matches, in which:
30 unique CDR3
5 unique J



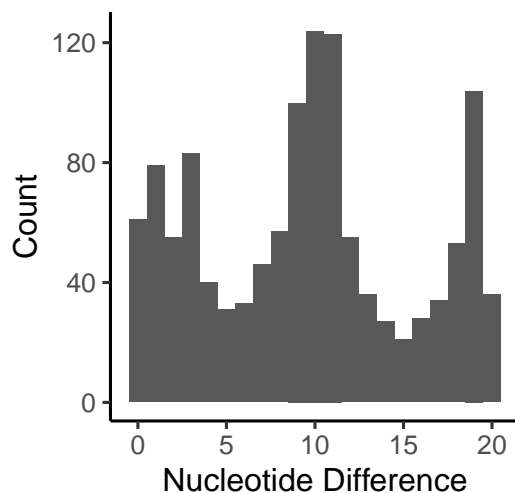
IGHV3-72*01

317 sequences assigned
3 (0.9%) exact matches, in which:
3 unique CDR3
2 unique J



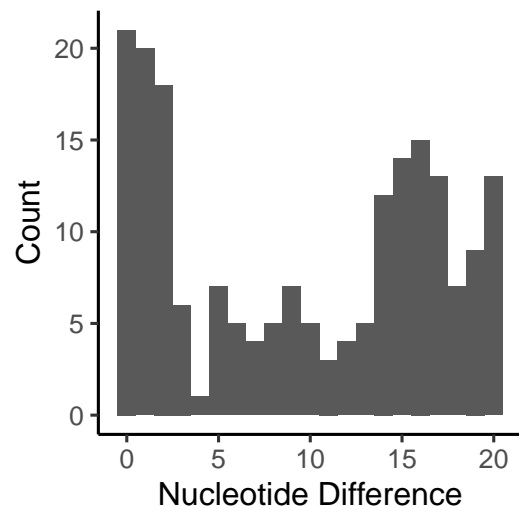
IGHV3-74*01

1356 sequences assigned
61 (4.5%) exact matches, in which:
54 unique CDR3
5 unique J



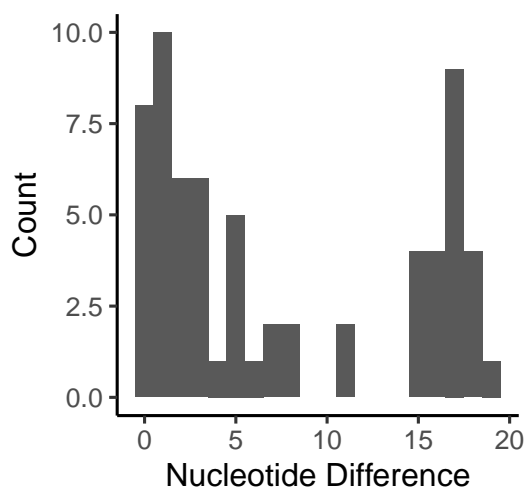
IGHV4-4*02

280 sequences assigned
21 (7.5%) exact matches, in which:
19 unique CDR3
5 unique J



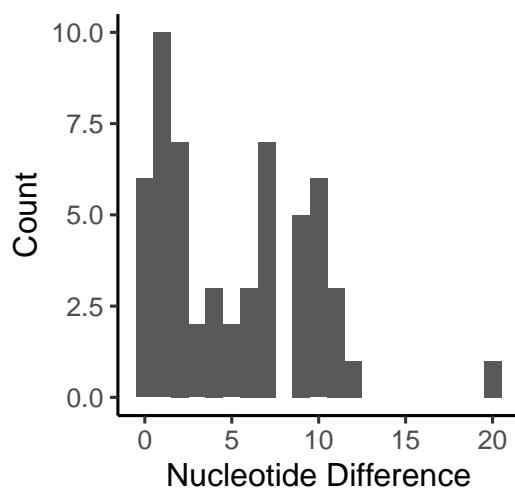
IGHV3-73*01

112 sequences assigned
8 (7.1%) exact matches, in which:
7 unique CDR3
3 unique J



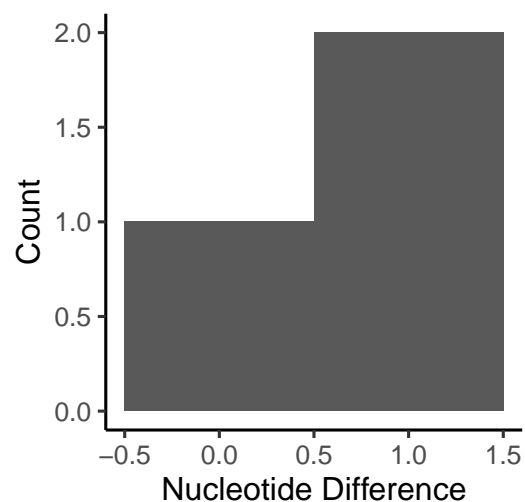
IGHV3-43D*03

72 sequences assigned
6 (8.3%) exact matches, in which:
4 unique CDR3
2 unique J



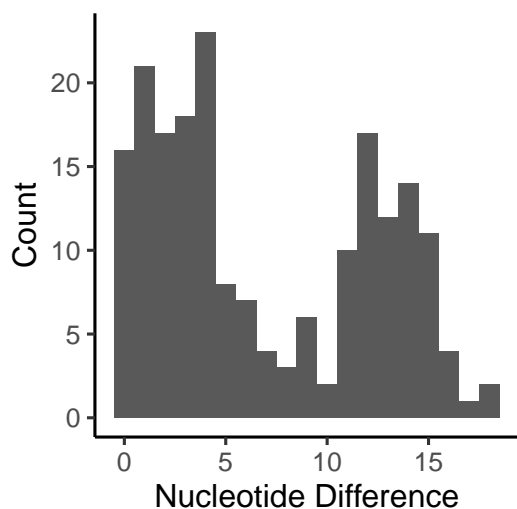
IGHV4-28*07

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



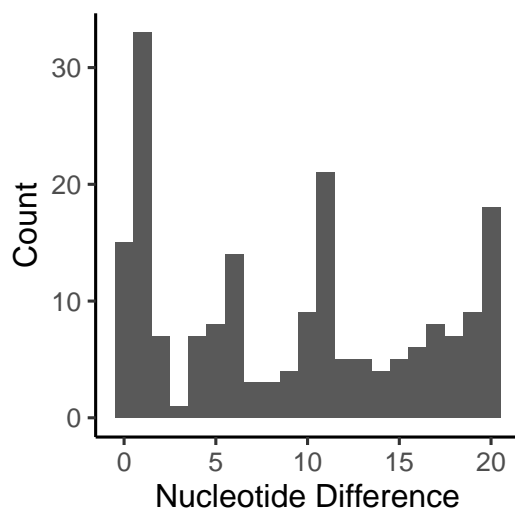
IGHV3-73*02

204 sequences assigned
16 (7.8%) exact matches, in which:
14 unique CDR3
4 unique J



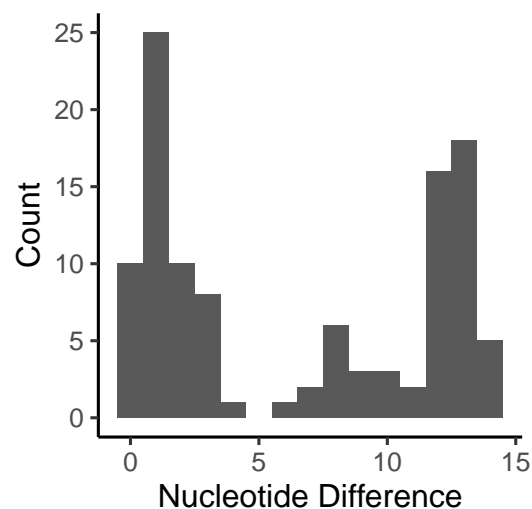
IGHV3-64D*06

279 sequences assigned
15 (5.4%) exact matches, in which:
13 unique CDR3
4 unique J



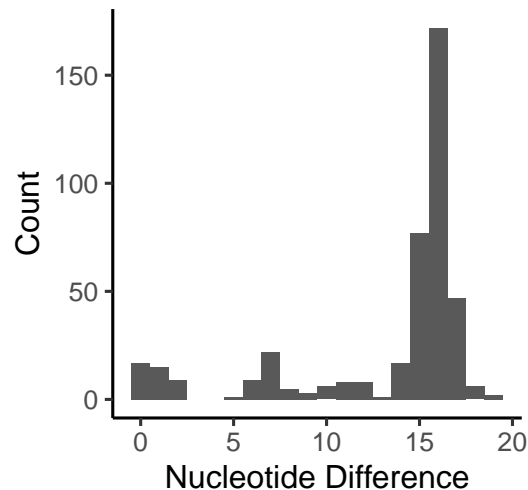
IGHV4-30-2*01

135 sequences assigned
10 (7.4%) exact matches, in which:
9 unique CDR3
4 unique J



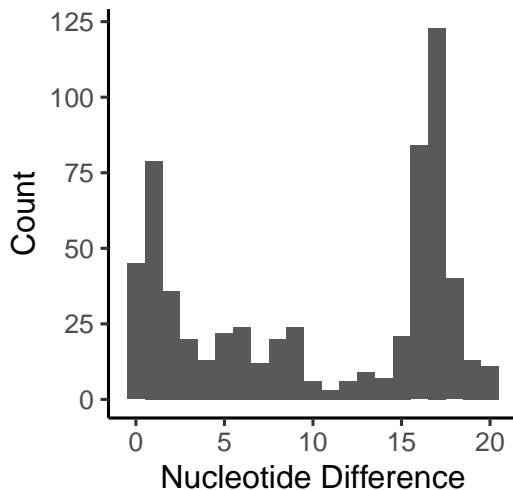
IGHV4-30-4*07

461 sequences assigned
17 (3.7%) exact matches, in which:
11 unique CDR3
4 unique J



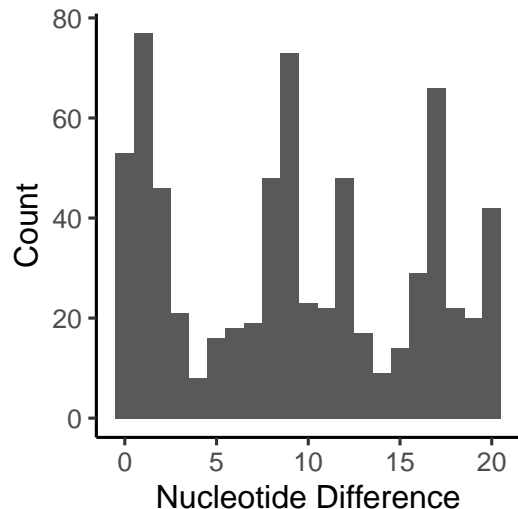
IGHV4-38-2*02

662 sequences assigned
45 (6.8%) exact matches, in which:
28 unique CDR3
5 unique J



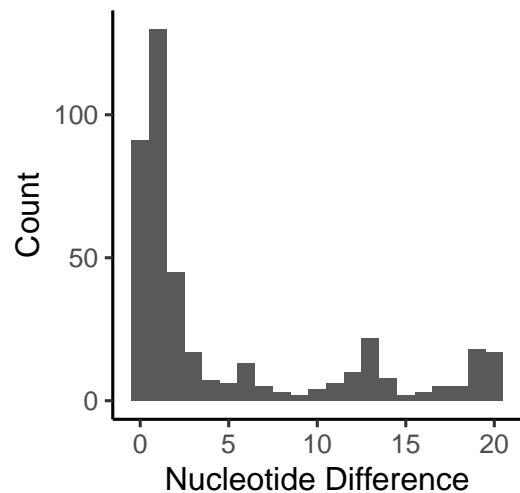
IGHV4-59*08

822 sequences assigned
53 (6.4%) exact matches, in which:
43 unique CDR3
6 unique J



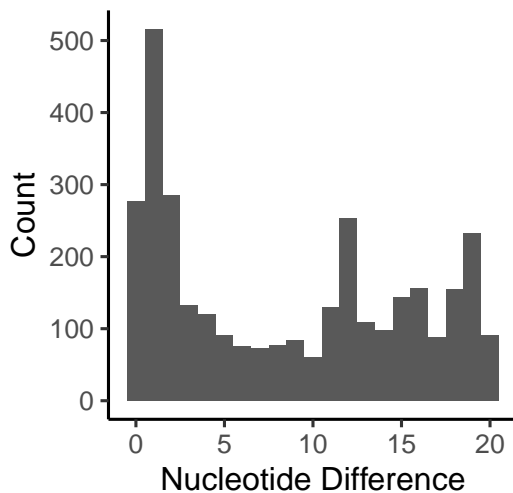
IGHV4-31*03

519 sequences assigned
91 (17.5%) exact matches, in which:
49 unique CDR3
4 unique J



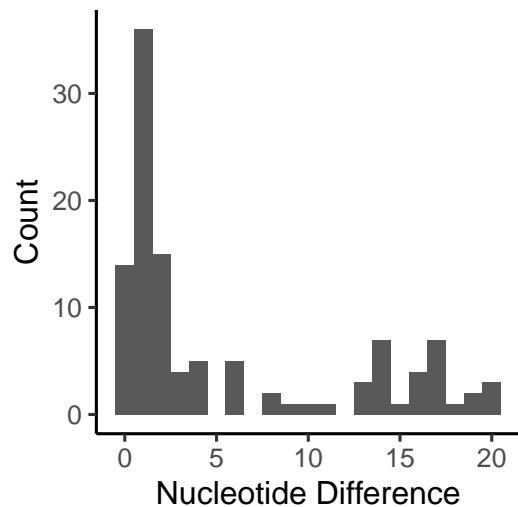
IGHV4-39*01

3889 sequences assigned
277 (7.1%) exact matches, in which:
202 unique CDR3
5 unique J



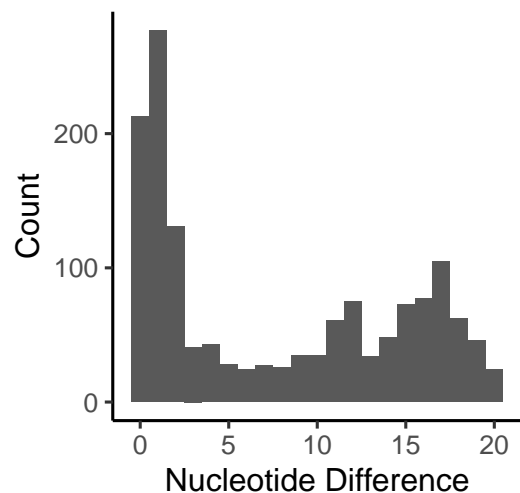
IGHV4-61*01

190 sequences assigned
14 (7.4%) exact matches, in which:
11 unique CDR3
3 unique J



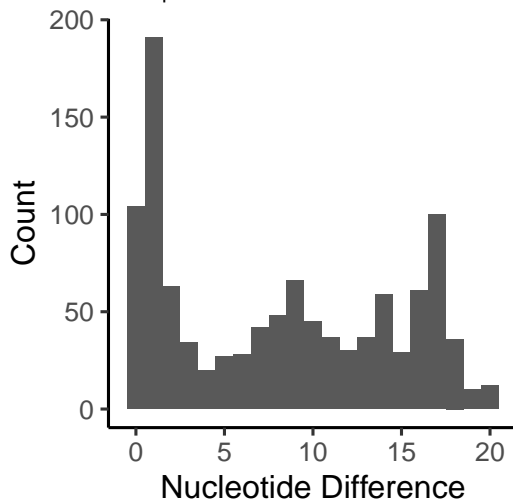
IGHV4-34*01

2005 sequences assigned
213 (10.6%) exact matches, in which:
158 unique CDR3
5 unique J



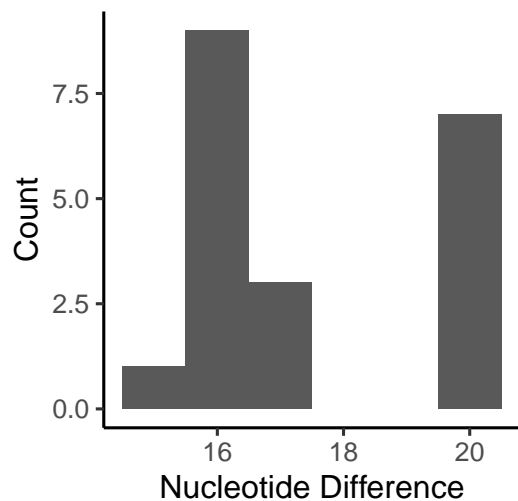
IGHV4-59*01

1278 sequences assigned
104 (8.1%) exact matches, in which:
75 unique CDR3
6 unique J



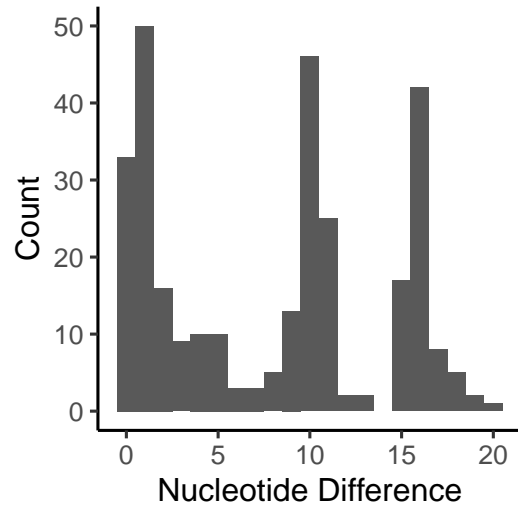
IGHV4-61*08

216 sequences assigned
No exact matches.



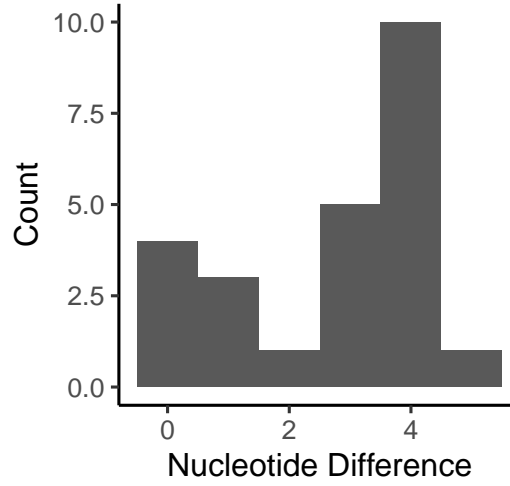
IGHV5-10-1*03

313 sequences assigned
33 (10.5%) exact matches, in which:
20 unique CDR3
4 unique J



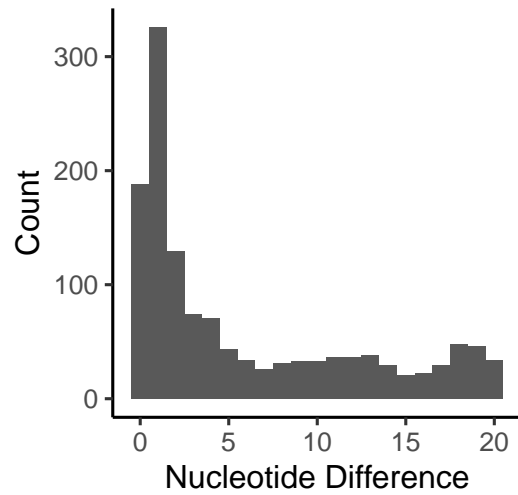
IGHV7-4-1*01

24 sequences assigned
4 (16.7%) exact matches, in which:
2 unique CDR3
1 unique J



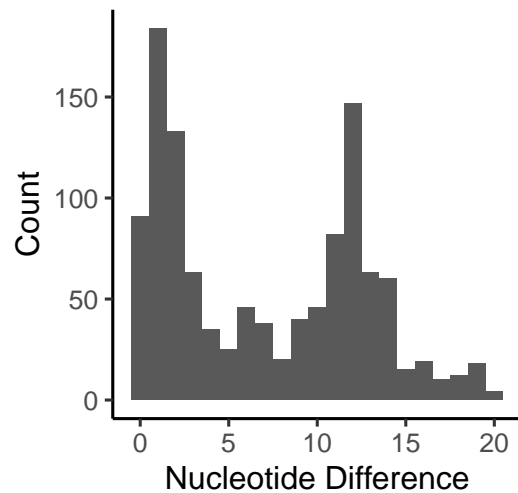
IGHV5-51*01

1538 sequences assigned
188 (12.2%) exact matches, in which:
130 unique CDR3
6 unique J



IGHV6-1*01

1539 sequences assigned
91 (5.9%) exact matches, in which:
54 unique CDR3
4 unique J





Warning – no inferred sequences found.