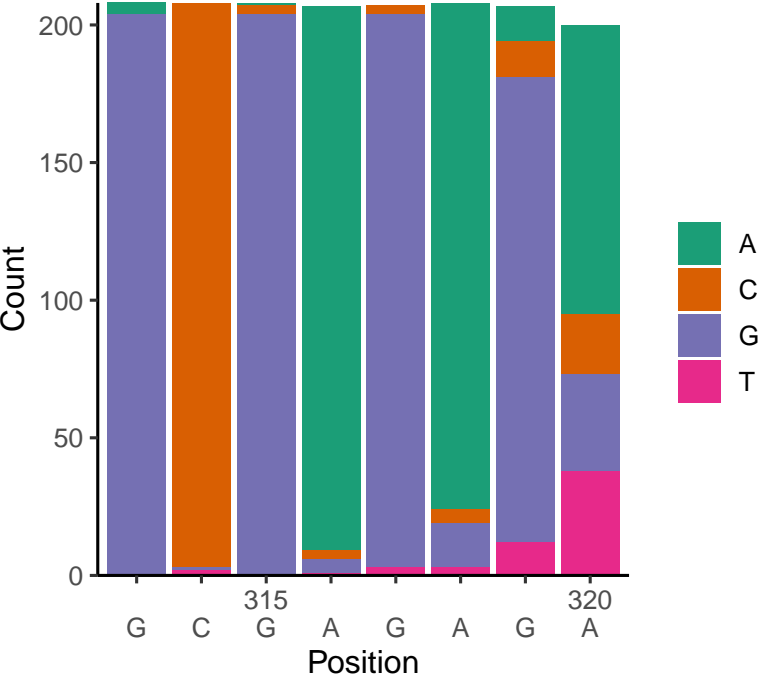


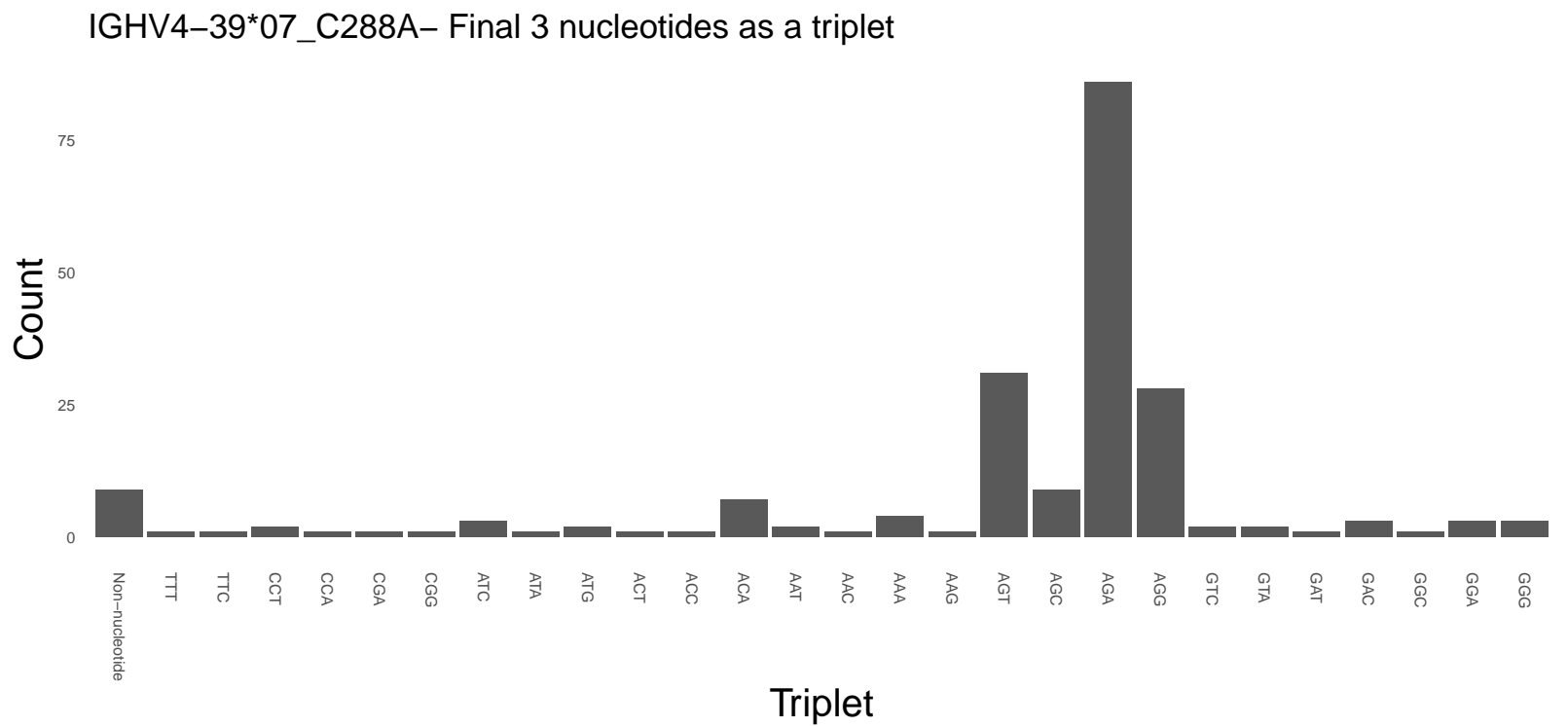
Gene IGHV4-39*07_C288A



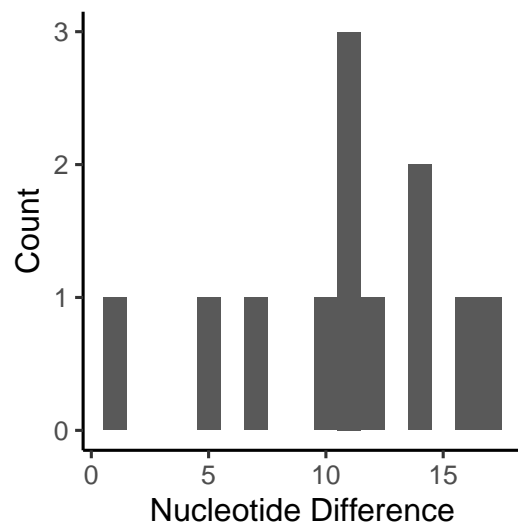
Gene IGHV4-39*07_C288A



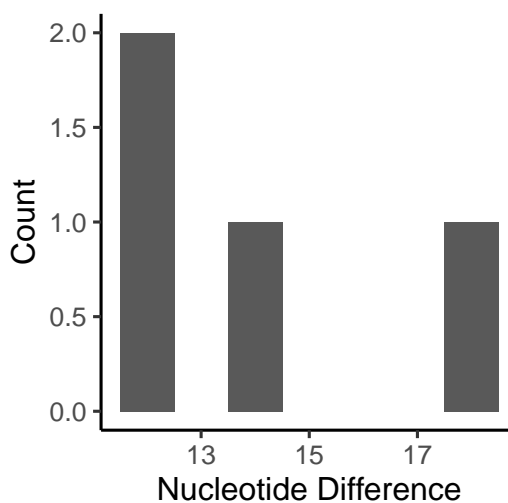
IGHV4-39*07_C288A- Final 3 nucleotides as a triplet



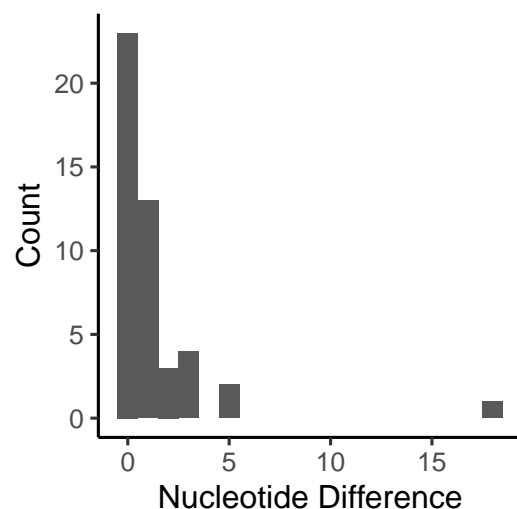
13 sequences assigned
No exact matches.



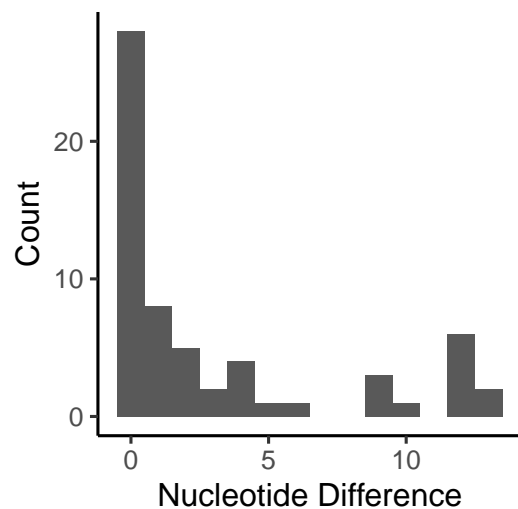
4 sequences assigned
No exact matches.



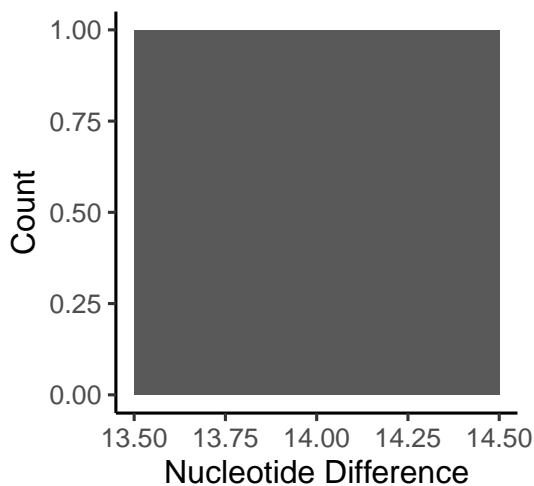
48 sequences assigned
23 (47.9%) exact matches, in which:
22 unique CDR3
3 unique J



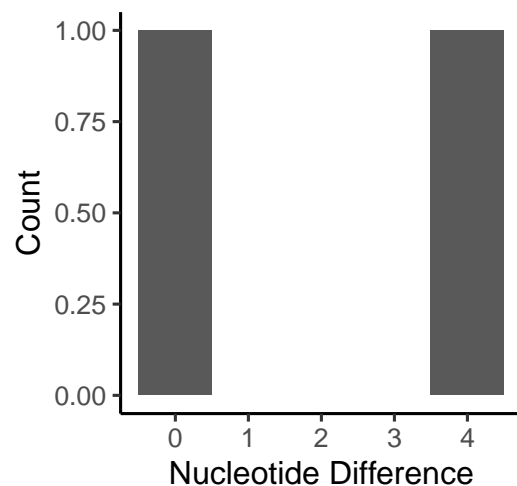
61 sequences assigned
28 (45.9%) exact matches, in which:
28 unique CDR3
4 unique J



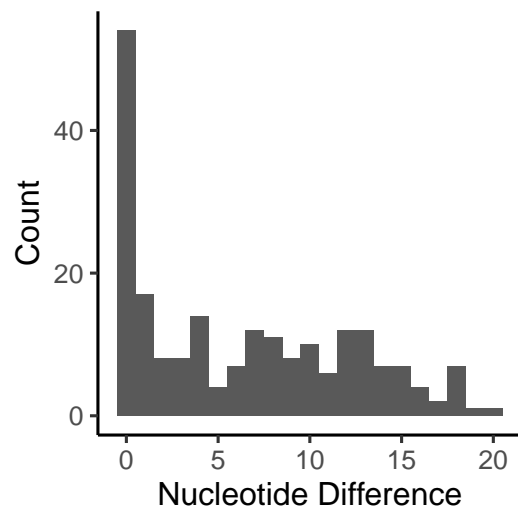
1 sequences assigned
No exact matches.



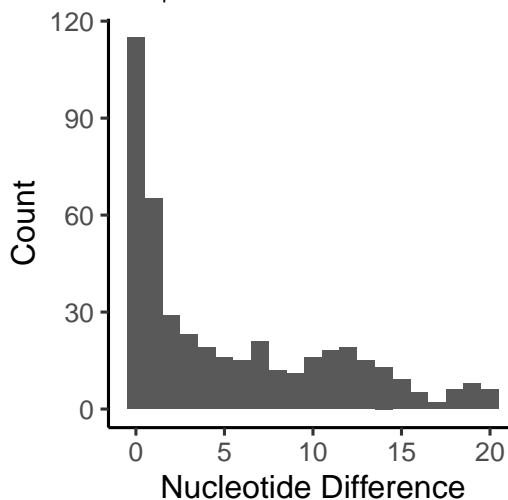
4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



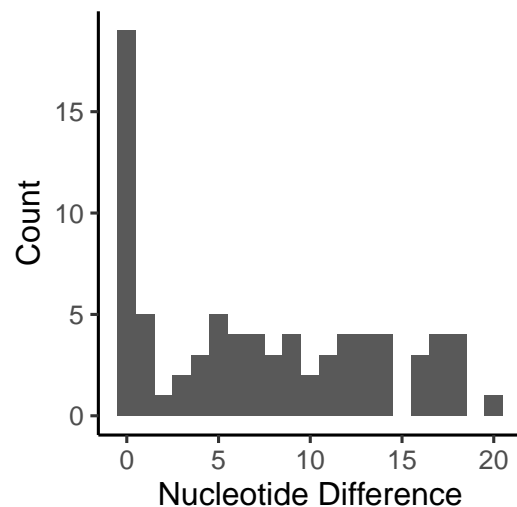
221 sequences assigned
54 (24.4%) exact matches, in which:
51 unique CDR3
5 unique J



462 sequences assigned
115 (24.9%) exact matches, in which:
114 unique CDR3
5 unique J

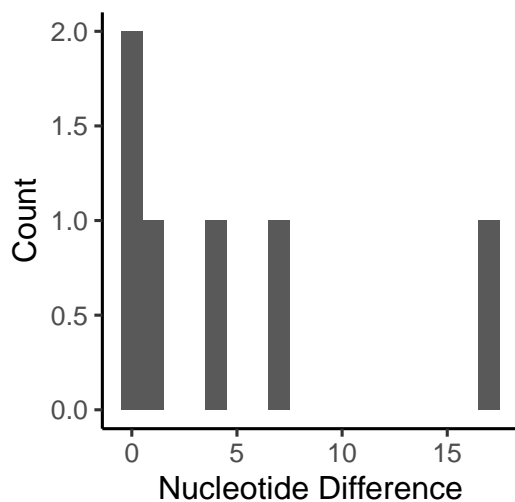


102 sequences assigned
19 (18.6%) exact matches, in which:
18 unique CDR3
5 unique J



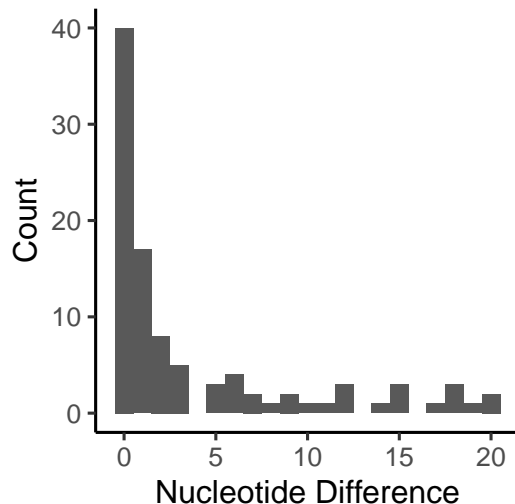
IGHV1-58*01

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



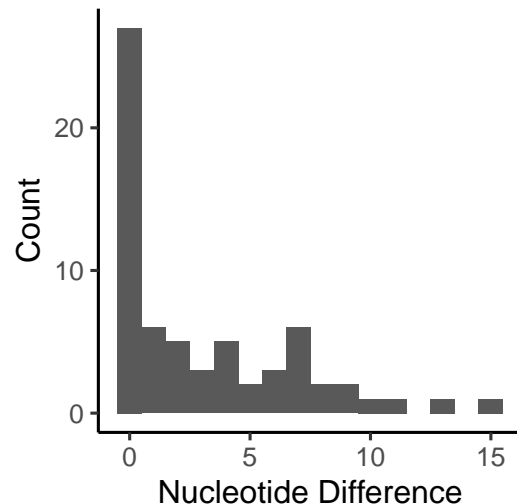
IGHV1-69*04

103 sequences assigned
40 (38.8%) exact matches, in which:
40 unique CDR3
5 unique J



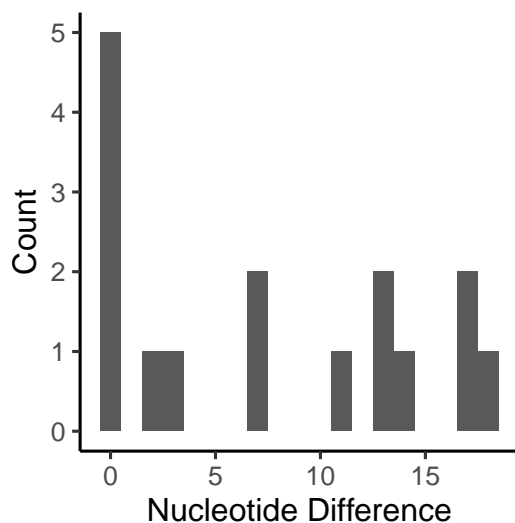
IGHV2-5*02

66 sequences assigned
27 (40.9%) exact matches, in which:
27 unique CDR3
4 unique J



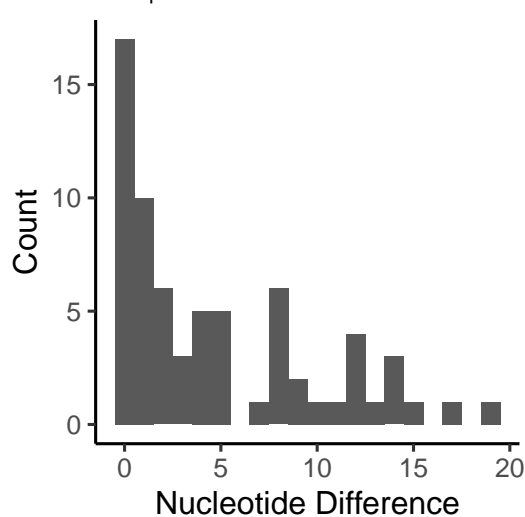
IGHV1-58*02

16 sequences assigned
5 (31.2%) exact matches, in which:
5 unique CDR3
2 unique J



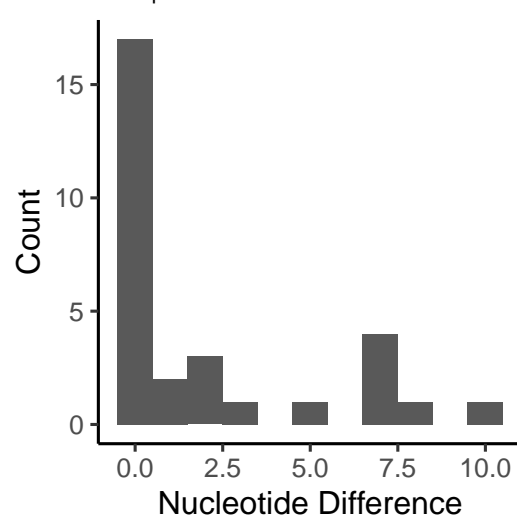
IGHV1-69*06

73 sequences assigned
17 (23.3%) exact matches, in which:
17 unique CDR3
3 unique J



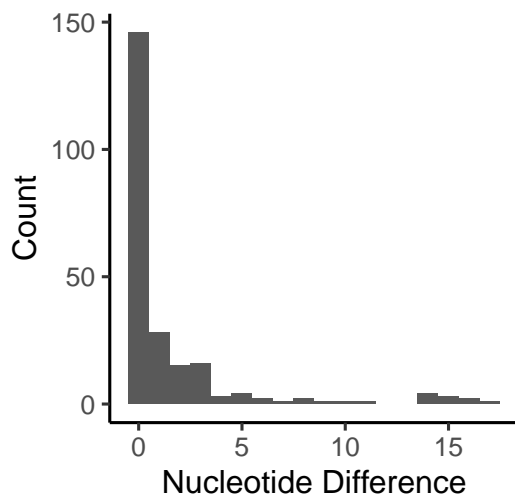
IGHV2-26*01

30 sequences assigned
17 (56.7%) exact matches, in which:
17 unique CDR3
4 unique J



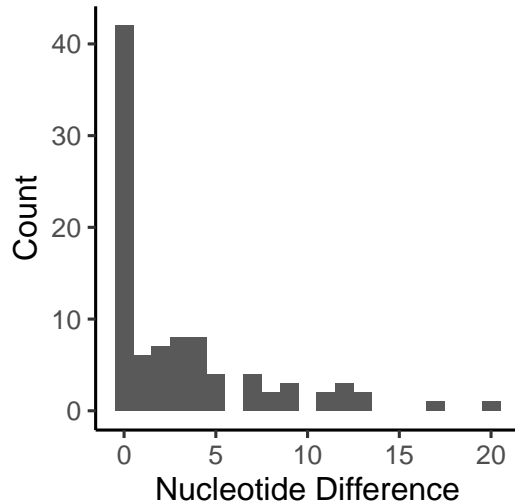
IGHV1-69*01

234 sequences assigned
146 (62.4%) exact matches, in which:
145 unique CDR3
6 unique J



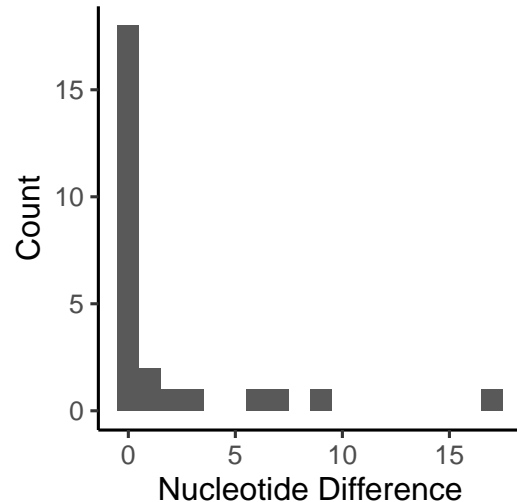
IGHV2-5*01

94 sequences assigned
42 (44.7%) exact matches, in which:
42 unique CDR3
4 unique J



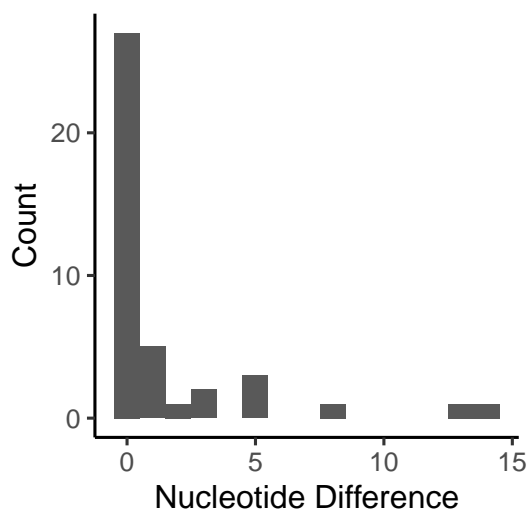
IGHV2-70*01

26 sequences assigned
18 (69.2%) exact matches, in which:
18 unique CDR3
5 unique J



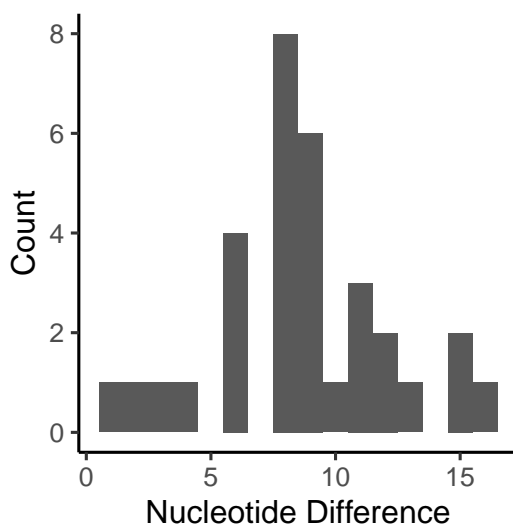
IGHV2-70*15

41 sequences assigned
27 (65.9%) exact matches, in which:
26 unique CDR3
5 unique J



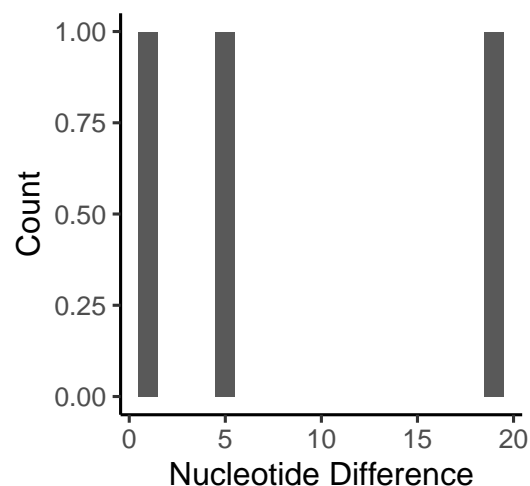
IGHV3-7*05

33 sequences assigned
No exact matches.



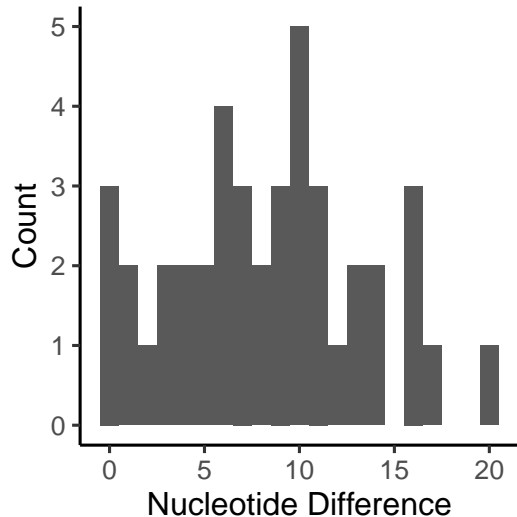
IGHV3-11*06

4 sequences assigned
No exact matches.



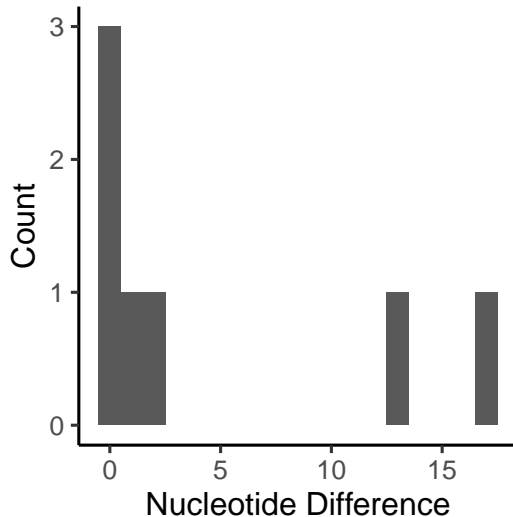
IGHV3-7*01

44 sequences assigned
3 (6.8%) exact matches, in which:
3 unique CDR3
2 unique J



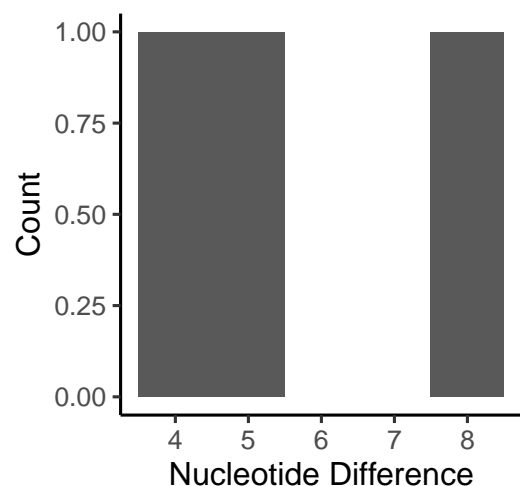
IGHV3-11*01

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



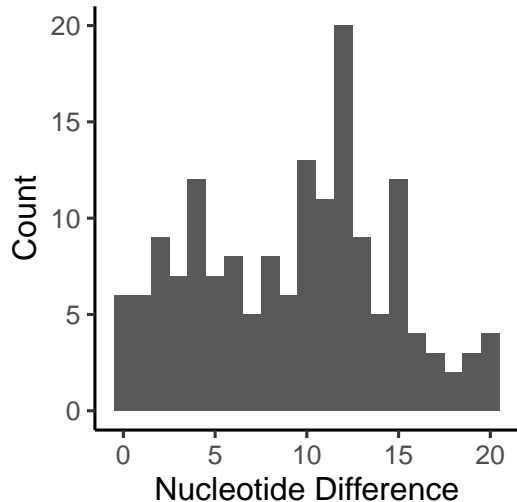
IGHV3-13*01

3 sequences assigned
No exact matches.



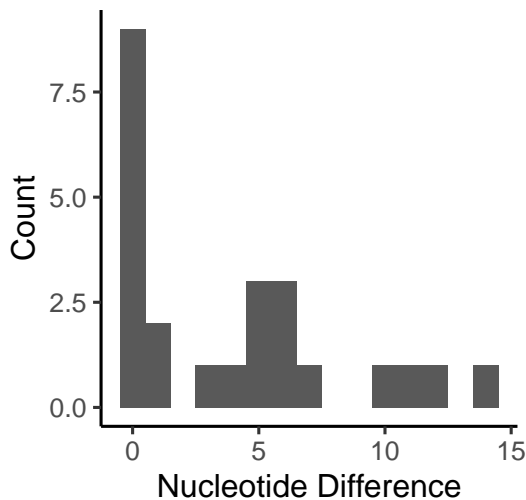
IGHV3-7*03

177 sequences assigned
6 (3.4%) exact matches, in which:
6 unique CDR3
4 unique J



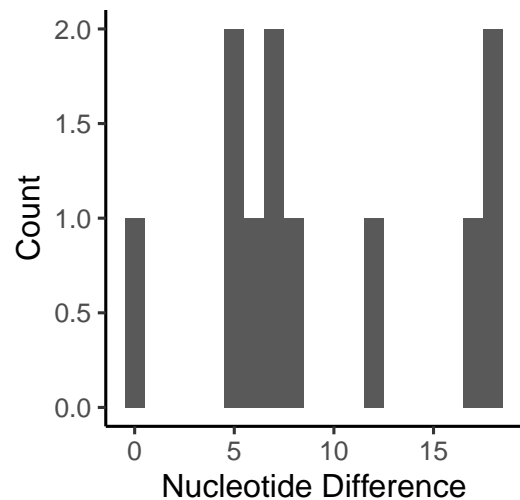
IGHV3-11*05

24 sequences assigned
9 (37.5%) exact matches, in which:
9 unique CDR3
4 unique J



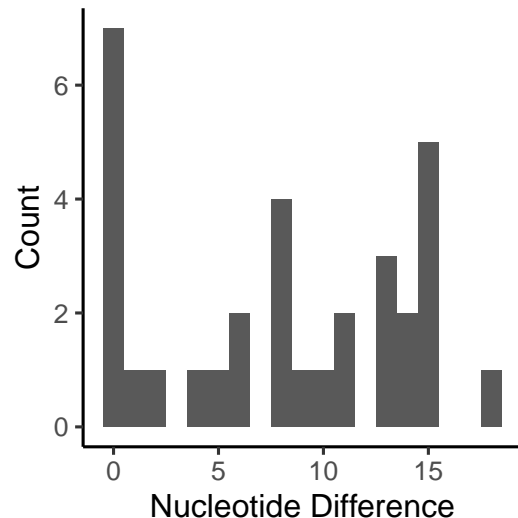
IGHV3-13*04

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



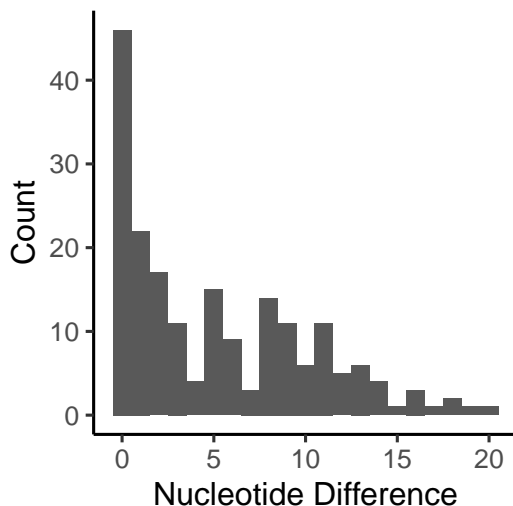
IGHV3-15*01

38 sequences assigned
7 (18.4%) exact matches, in which:
7 unique CDR3
4 unique J



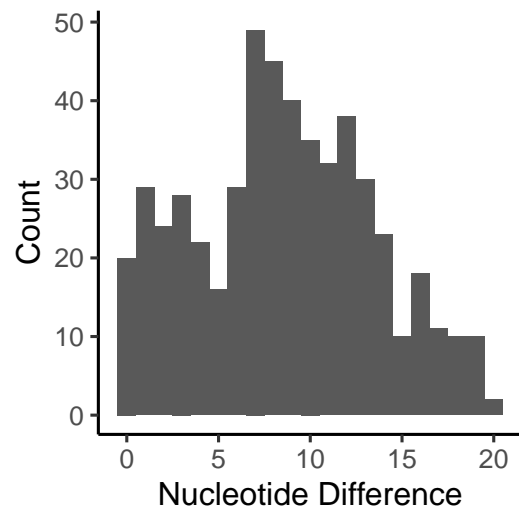
IGHV3-21*01

193 sequences assigned
46 (23.8%) exact matches, in which:
43 unique CDR3
4 unique J



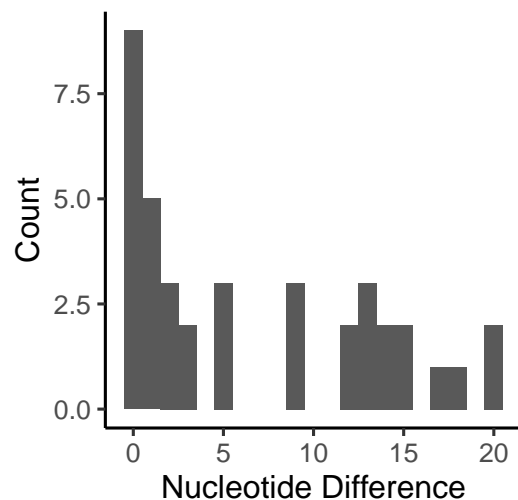
IGHV3-23*04

533 sequences assigned
20 (3.8%) exact matches, in which:
20 unique CDR3
3 unique J



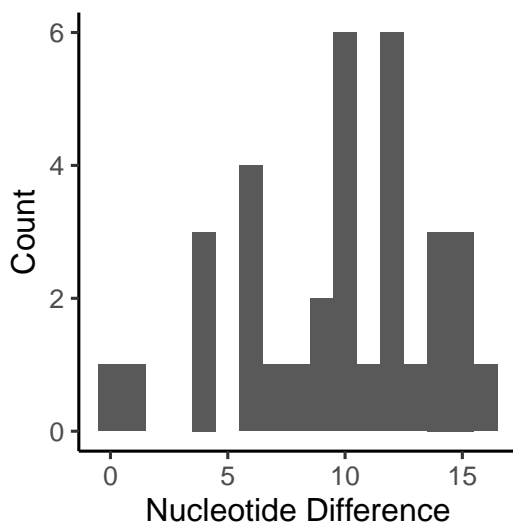
IGHV3-15*07

40 sequences assigned
9 (22.5%) exact matches, in which:
8 unique CDR3
3 unique J



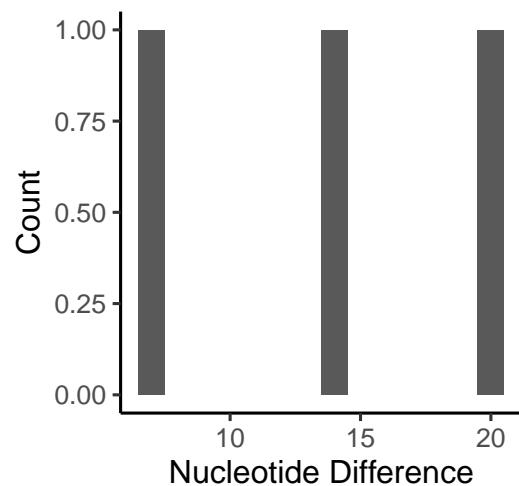
IGHV3-21*04

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



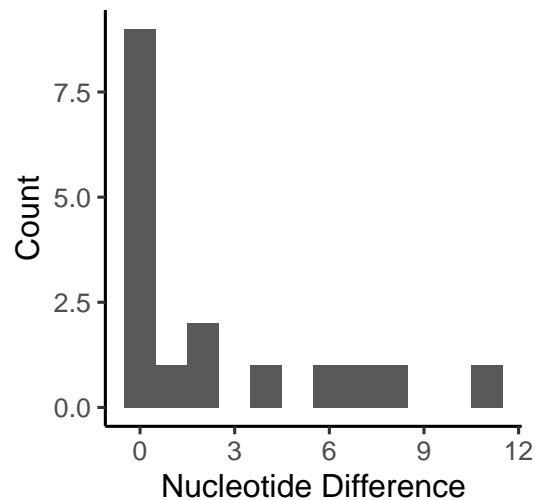
IGHV3-30-3*01

4 sequences assigned
No exact matches.



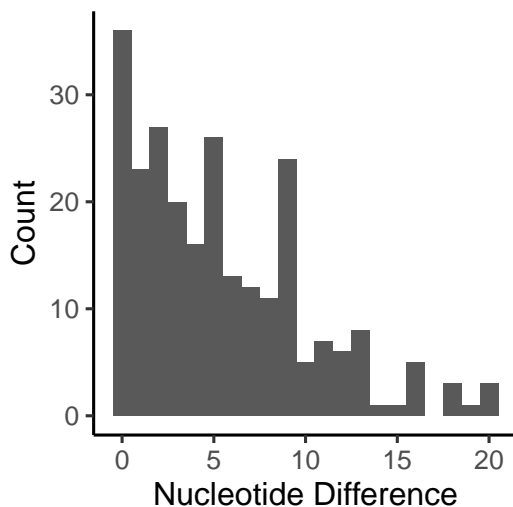
IGHV3-20*04

17 sequences assigned
9 (52.9%) exact matches, in which:
8 unique CDR3
2 unique J



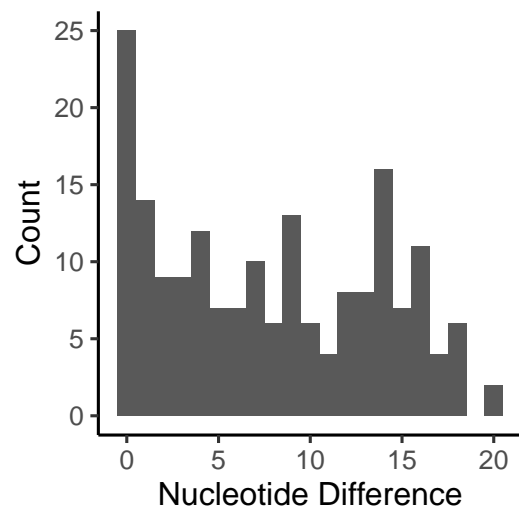
IGHV3-23*01

256 sequences assigned
36 (14.1%) exact matches, in which:
36 unique CDR3
5 unique J



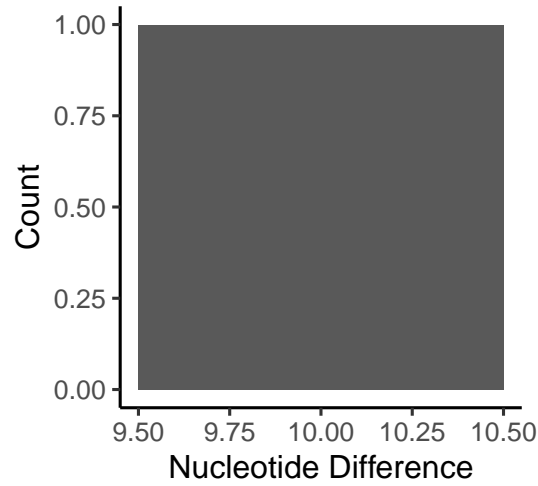
IGHV3-30*02

200 sequences assigned
25 (12.5%) exact matches, in which:
24 unique CDR3
4 unique J



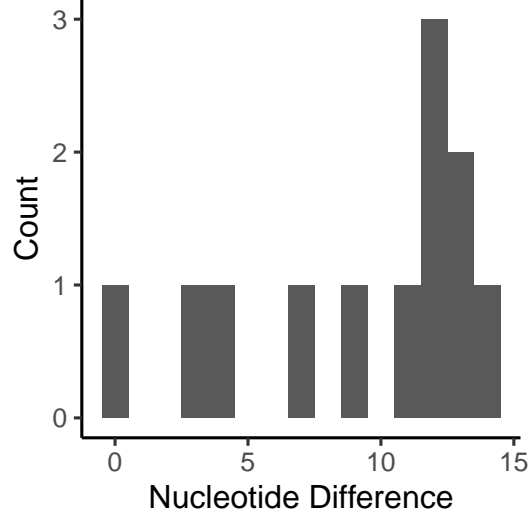
IGHV3-30-3*02

1 sequences assigned
No exact matches.



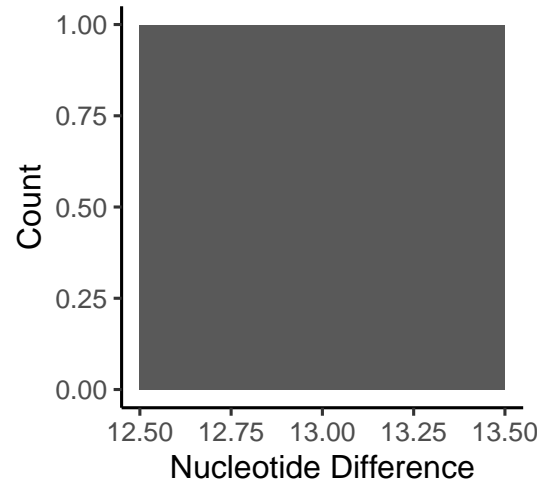
IGHV3-33*01

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



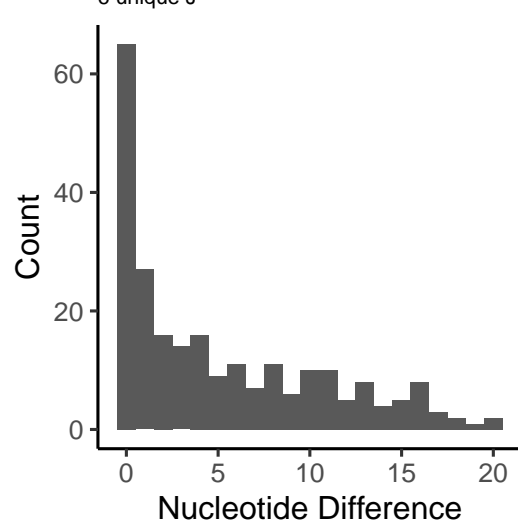
IGHV3-38-3*01

1 sequences assigned
No exact matches.



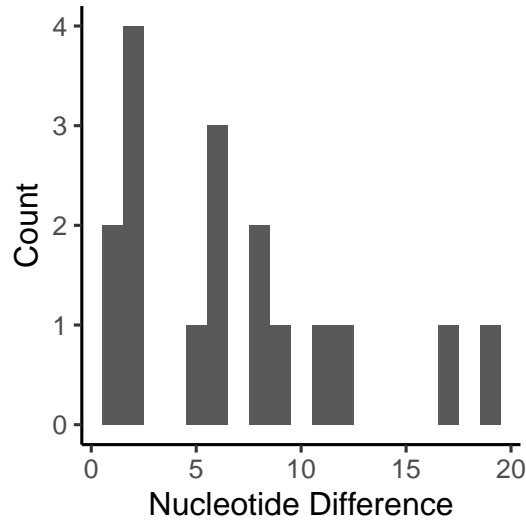
IGHV3-30*04

246 sequences assigned
65 (26.4%) exact matches, in which:
64 unique CDR3
6 unique J



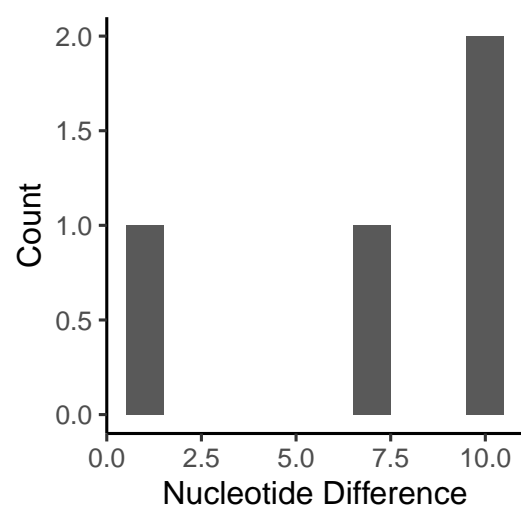
IGHV3-33*05

21 sequences assigned
No exact matches.



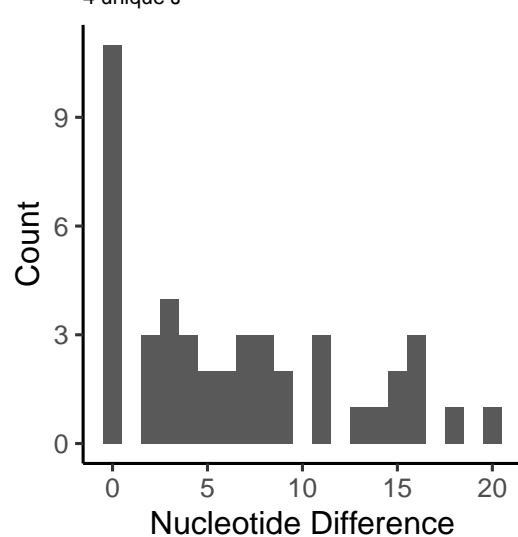
IGHV3-43*01

4 sequences assigned
No exact matches.



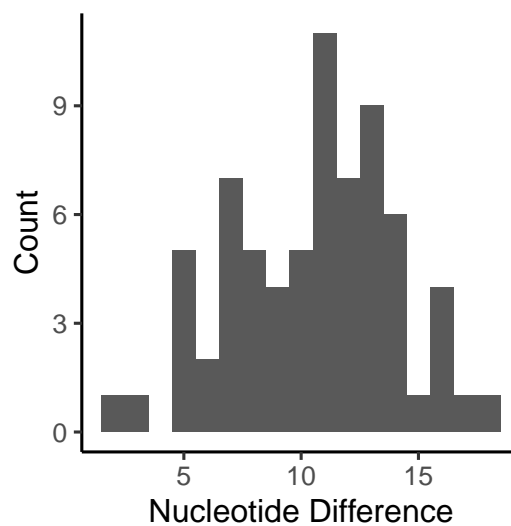
IGHV3-30*18

50 sequences assigned
11 (22%) exact matches, in which:
10 unique CDR3
4 unique J



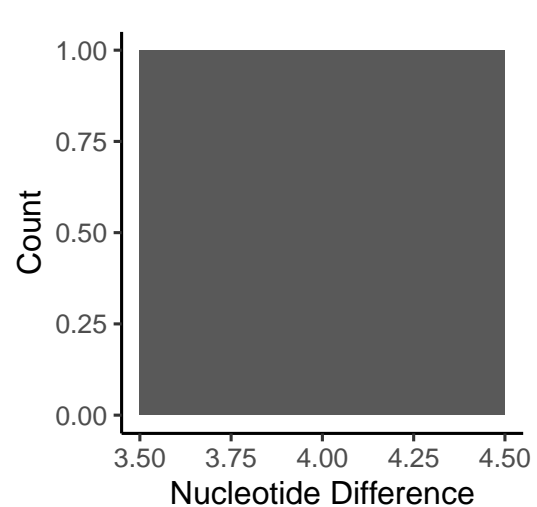
IGHV3-33*08

73 sequences assigned
No exact matches.



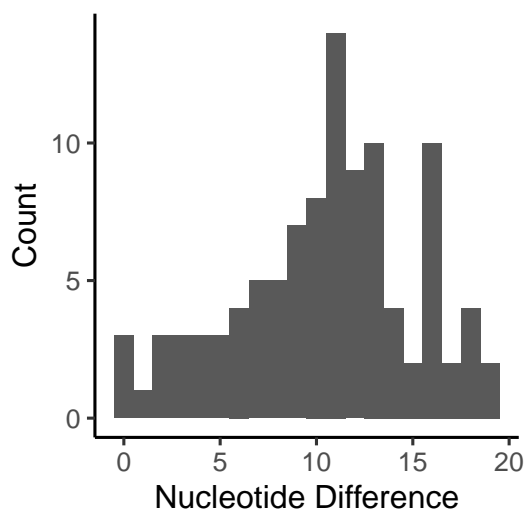
IGHV3-43*02

1 sequences assigned
No exact matches.



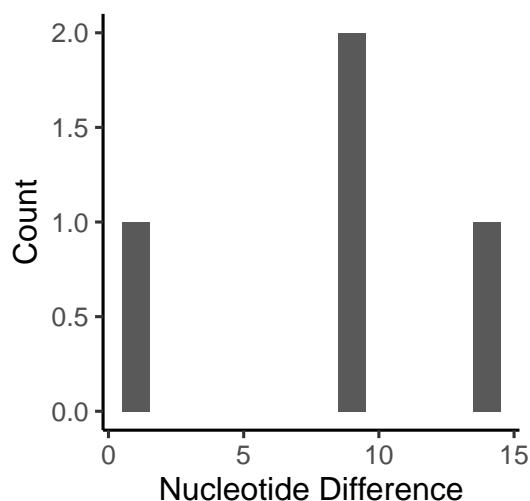
IGHV3-48*01

105 sequences assigned
3 (2.9%) exact matches, in which:
3 unique CDR3
1 unique J



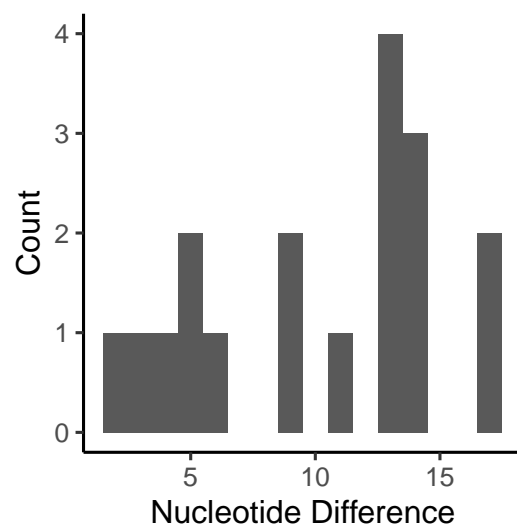
IGHV3-49*03

5 sequences assigned
No exact matches.



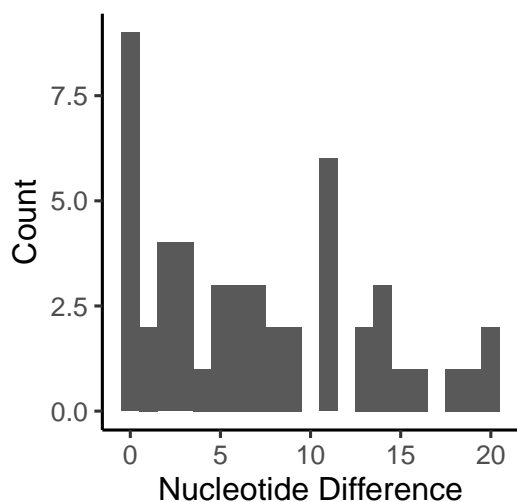
IGHV3-64*04

18 sequences assigned
No exact matches.



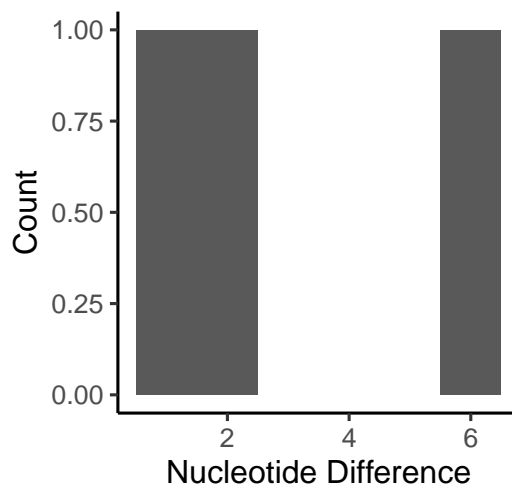
IGHV3-48*02

53 sequences assigned
9 (17%) exact matches, in which:
9 unique CDR3
3 unique J



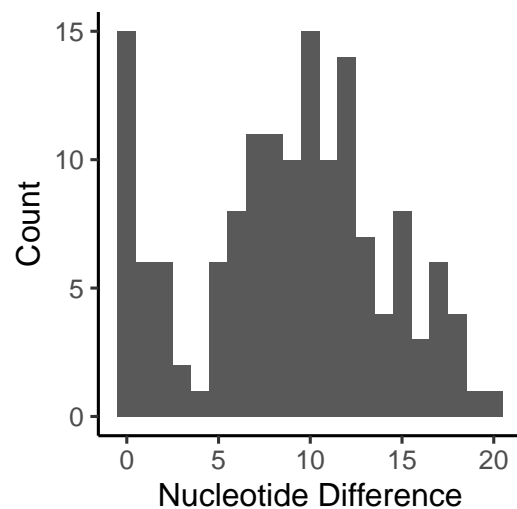
IGHV3-49*05

3 sequences assigned
No exact matches.



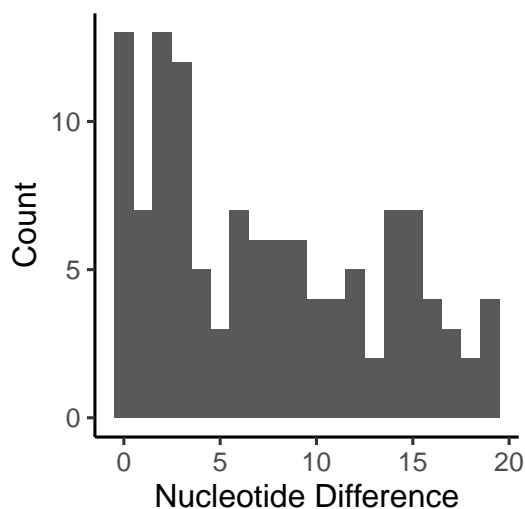
IGHV3-66*01

155 sequences assigned
15 (9.7%) exact matches, in which:
15 unique CDR3
4 unique J



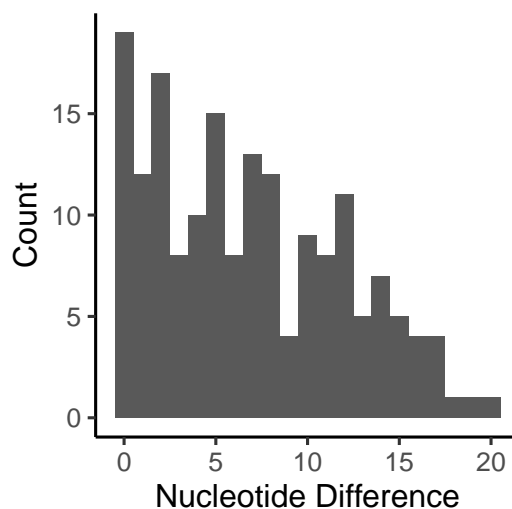
IGHV3-48*04

124 sequences assigned
13 (10.5%) exact matches, in which:
13 unique CDR3
4 unique J



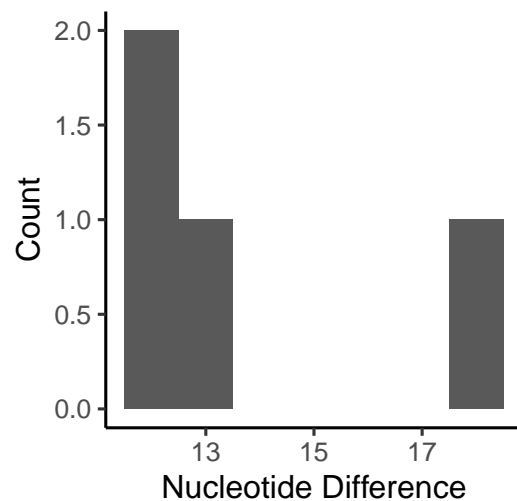
IGHV3-53*01

175 sequences assigned
19 (10.9%) exact matches, in which:
18 unique CDR3
3 unique J



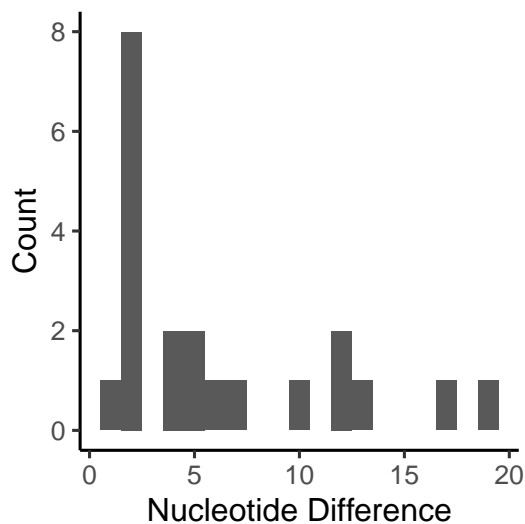
IGHV3-69-1*01

4 sequences assigned
No exact matches.



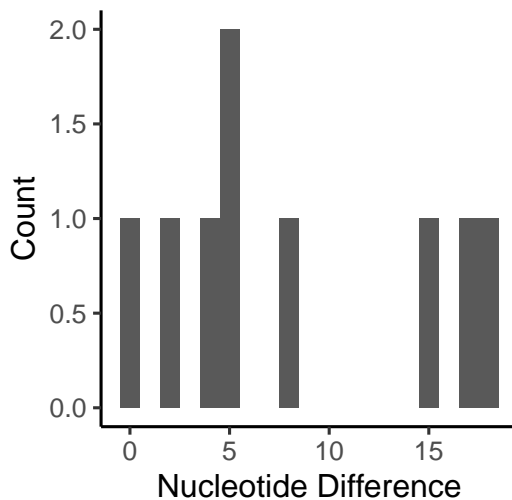
IGHV3-72*01

22 sequences assigned
No exact matches.



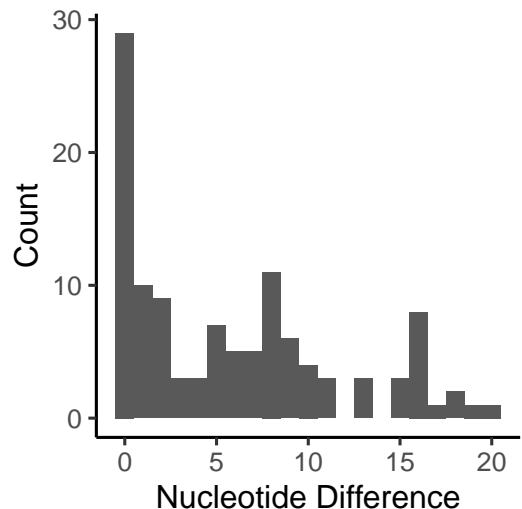
IGHV3-64D*06

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



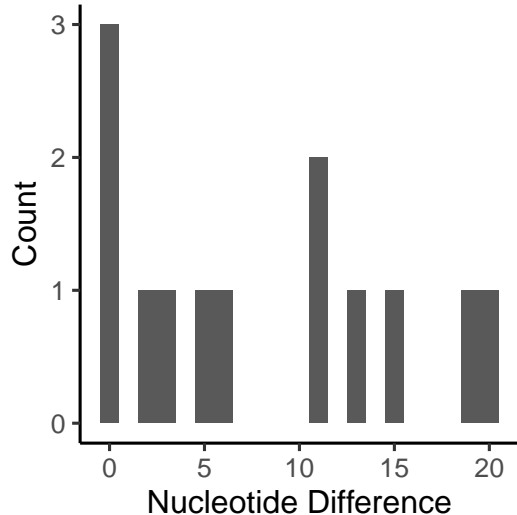
IGHV4-4*02

124 sequences assigned
29 (23.4%) exact matches, in which:
28 unique CDR3
4 unique J



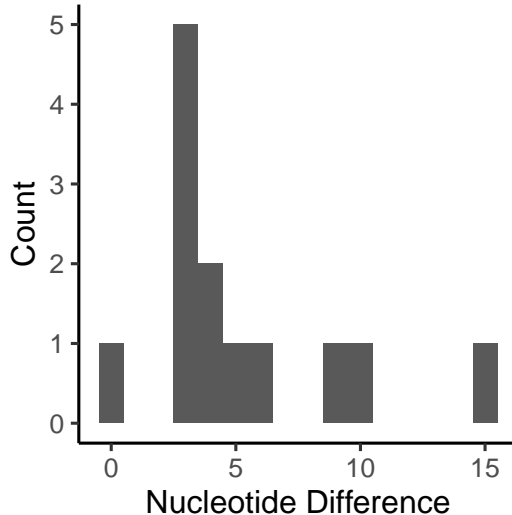
IGHV3-73*01

14 sequences assigned
3 (21.4%) exact matches, in which:
3 unique CDR3
2 unique J



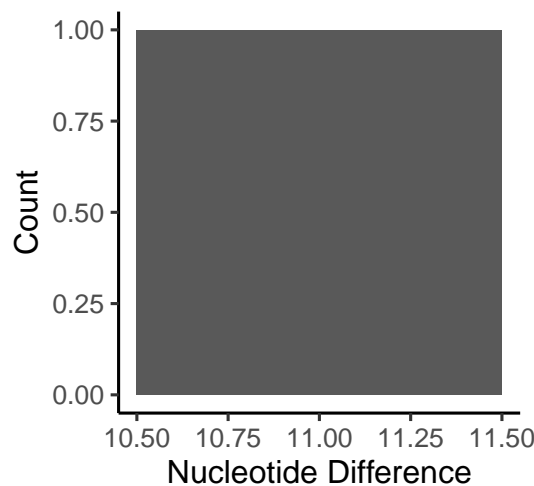
IGHV3-64D*09

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



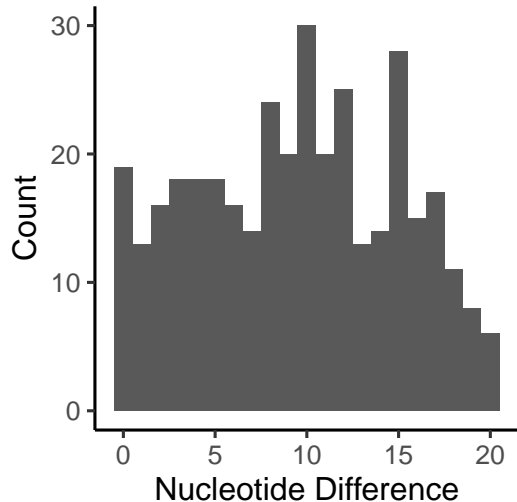
IGHV4-28*05

1 sequences assigned
No exact matches.



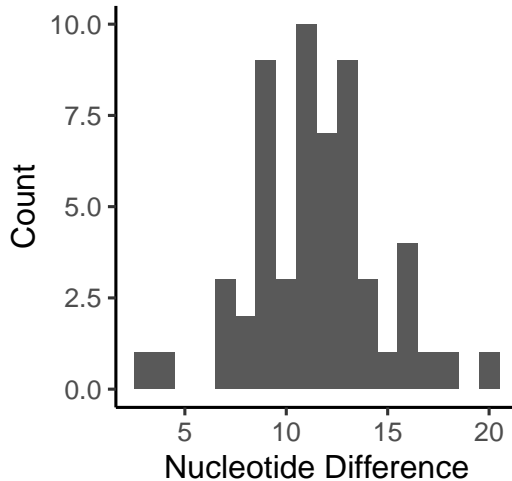
IGHV3-74*01

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



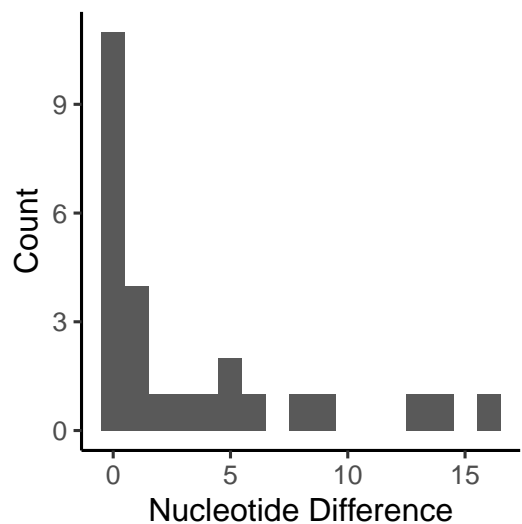
IGHV3-NL1*01

59 sequences assigned
No exact matches.



IGHV4-30-2*01

26 sequences assigned
11 (42.3%) exact matches, in which:
11 unique CDR3
3 unique J



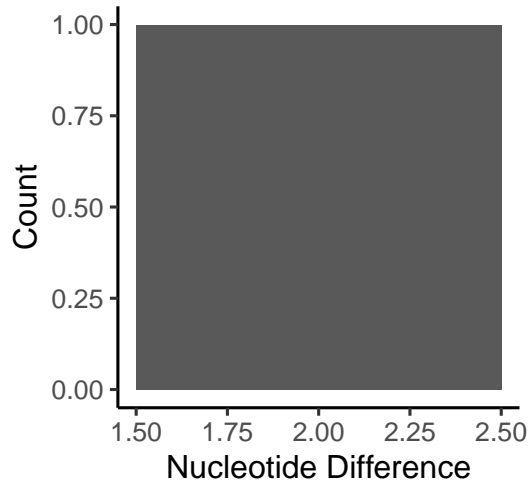
IGHV4-30-2*02

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



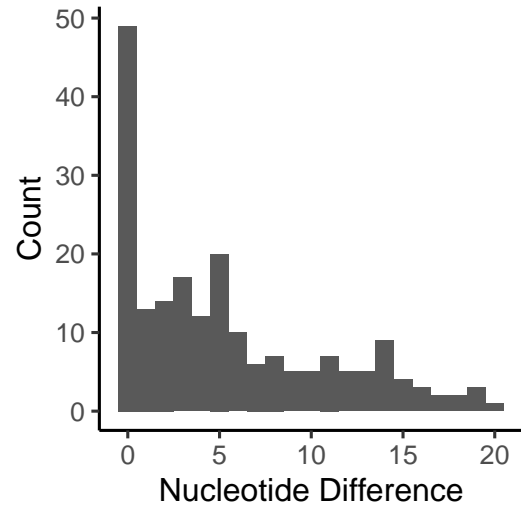
IGHV4-38-2*02

1 sequences assigned
No exact matches.



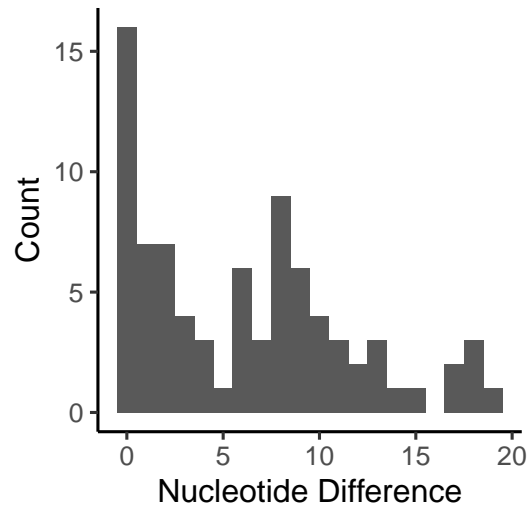
IGHV4-39*07_C288A

208 sequences assigned
49 (23.6%) exact matches, in which:
49 unique CDR3
5 unique J



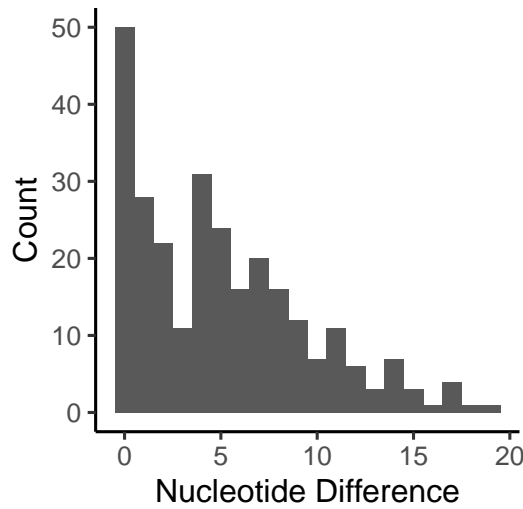
IGHV4-30-4*07

83 sequences assigned
16 (19.3%) exact matches, in which:
16 unique CDR3
4 unique J



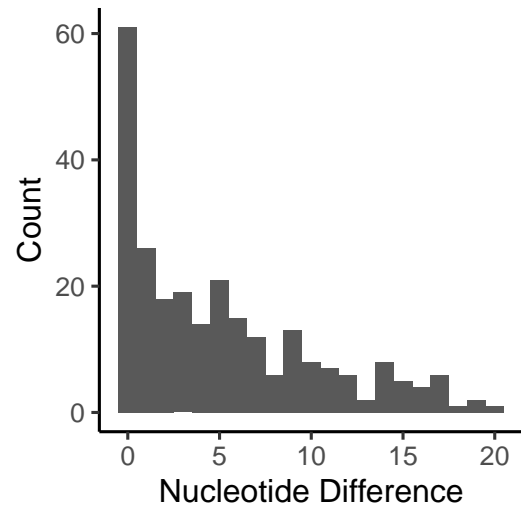
IGHV4-39*01

282 sequences assigned
50 (17.7%) exact matches, in which:
50 unique CDR3
5 unique J



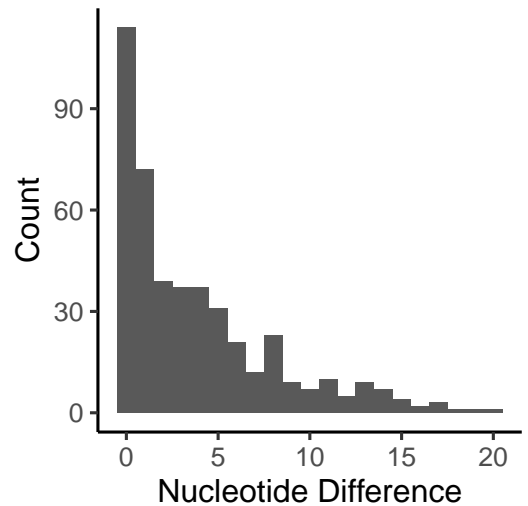
IGHV4-59*01

257 sequences assigned
61 (23.7%) exact matches, in which:
60 unique CDR3
6 unique J



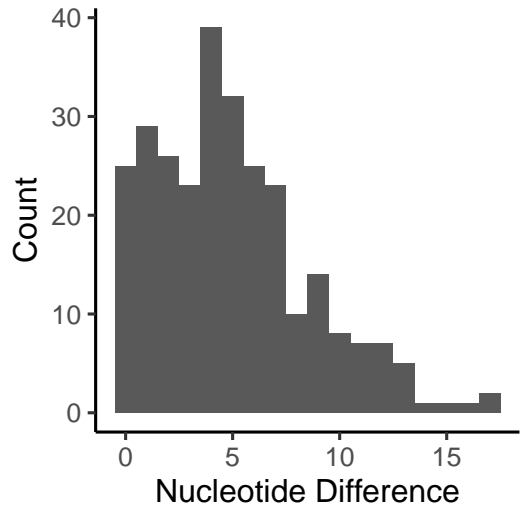
IGHV4-34*01

458 sequences assigned
114 (24.9%) exact matches, in which:
111 unique CDR3
5 unique J



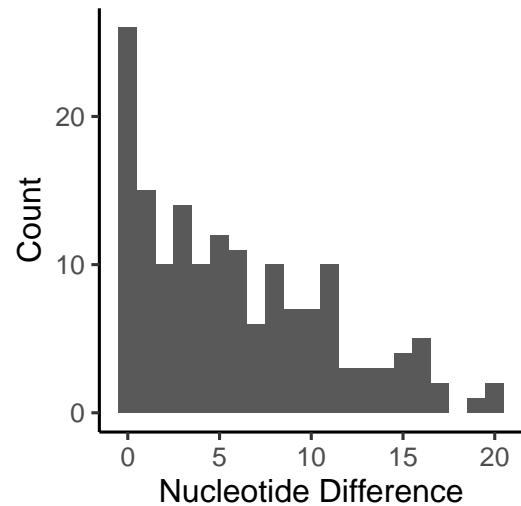
IGHV4-39*07

284 sequences assigned
25 (8.8%) exact matches, in which:
25 unique CDR3
3 unique J



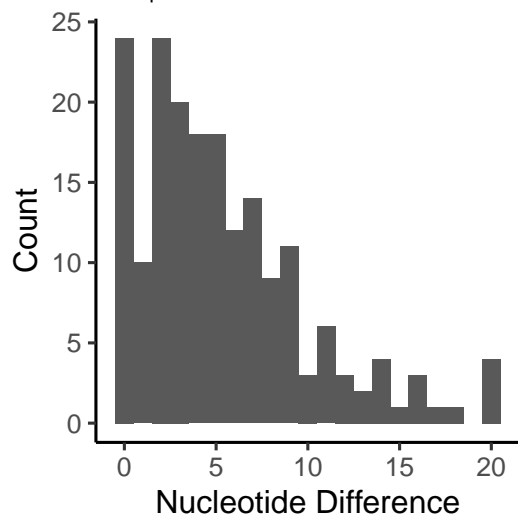
IGHV4-59*08

175 sequences assigned
26 (14.9%) exact matches, in which:
25 unique CDR3
4 unique J



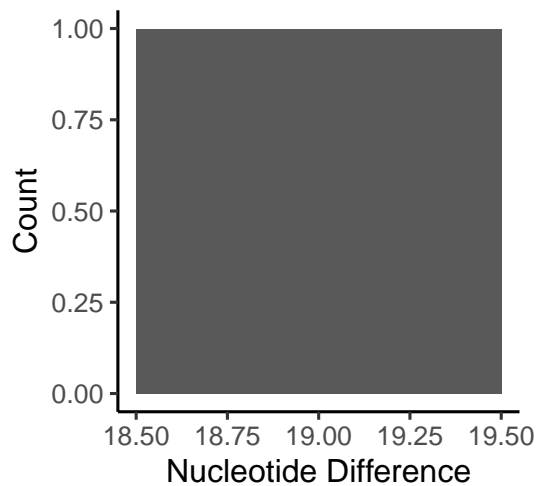
IGHV4–59*12

190 sequences assigned
24 (12.6%) exact matches, in which:
24 unique CDR3
4 unique J



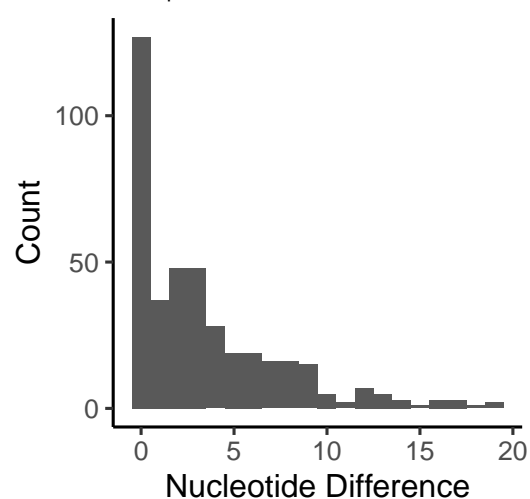
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



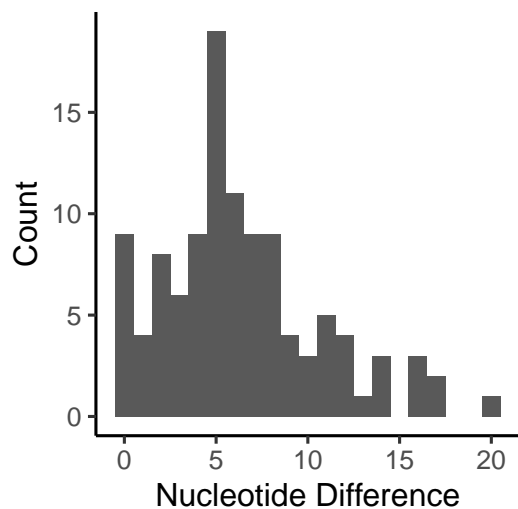
IGHV5–51*01

417 sequences assigned
127 (30.5%) exact matches, in which:
110 unique CDR3
5 unique J



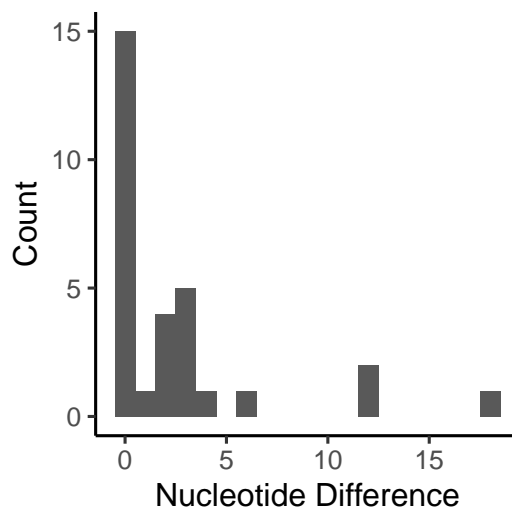
IGHV4–61*01

111 sequences assigned
9 (8.1%) exact matches, in which:
7 unique CDR3
3 unique J



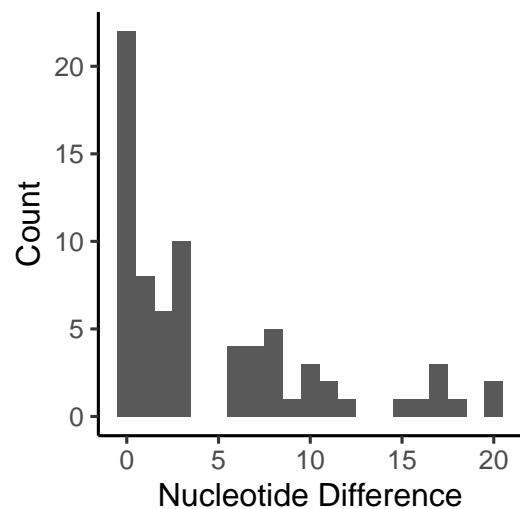
IGHV5–10–1*01

31 sequences assigned
15 (48.4%) exact matches, in which:
13 unique CDR3
5 unique J



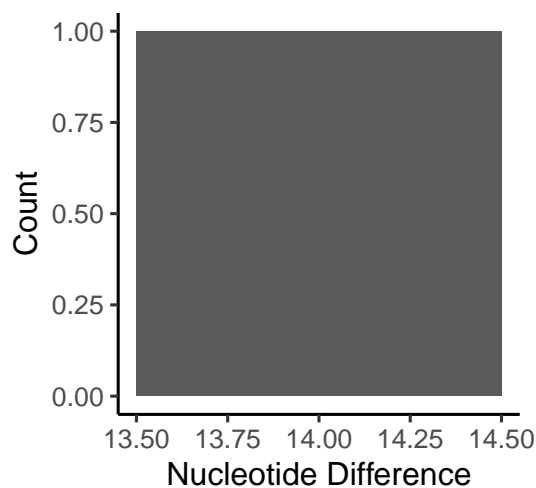
IGHV6–1*01

75 sequences assigned
22 (29.3%) exact matches, in which:
17 unique CDR3
6 unique J



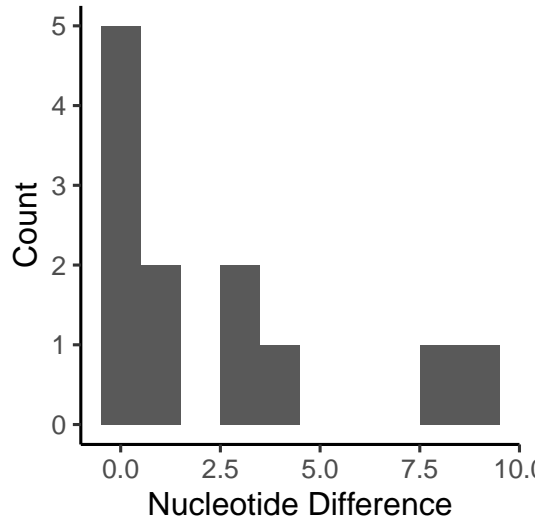
IGHV1/OR15–2*02

1 sequences assigned
No exact matches.



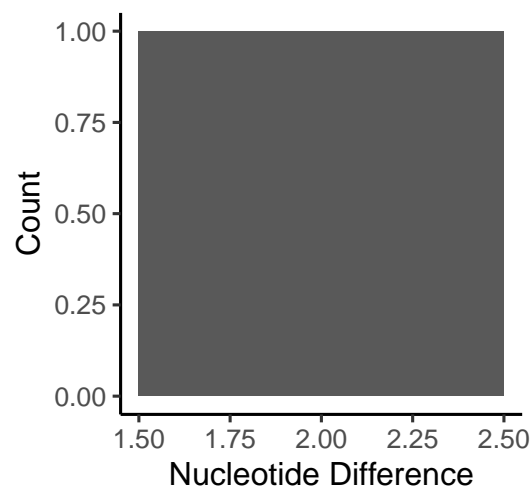
IGHV5–10–1*03

12 sequences assigned
5 (41.7%) exact matches, in which:
5 unique CDR3
3 unique J



IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



IGHV4-39*07_C288A

