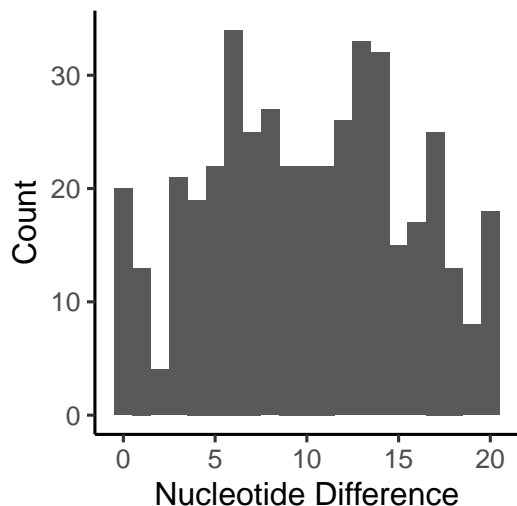


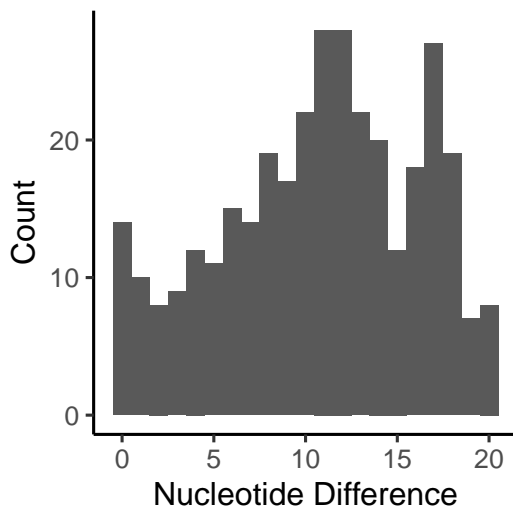
IGHV1-2*02

606 sequences assigned
20 (3.3%) exact matches, in which:
18 unique CDR3
4 unique J



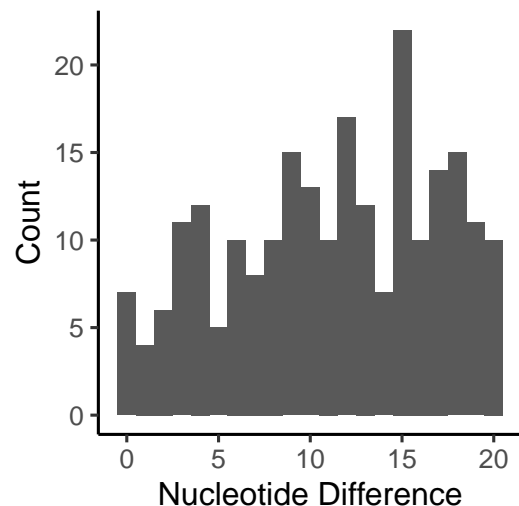
IGHV1-3*01_05

401 sequences assigned
14 (3.5%) exact matches, in which:
14 unique CDR3
4 unique J



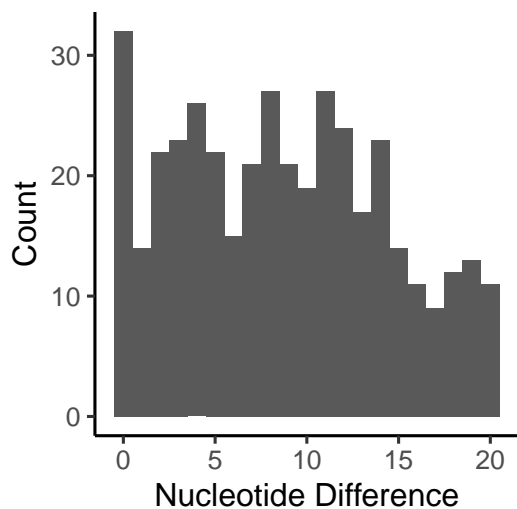
IGHV1-18*04

315 sequences assigned
7 (2.2%) exact matches, in which:
7 unique CDR3
4 unique J



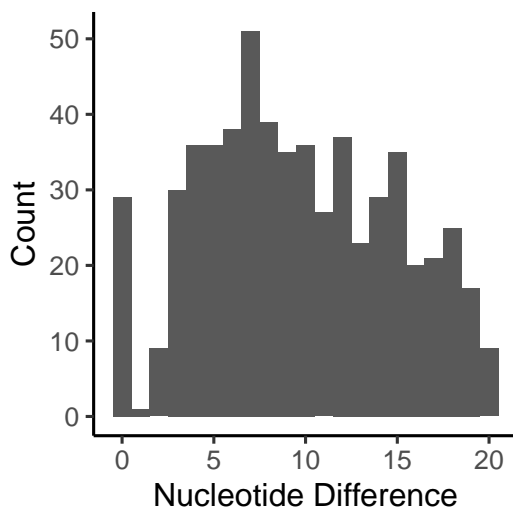
IGHV1-2*06

463 sequences assigned
32 (6.9%) exact matches, in which:
29 unique CDR3
4 unique J



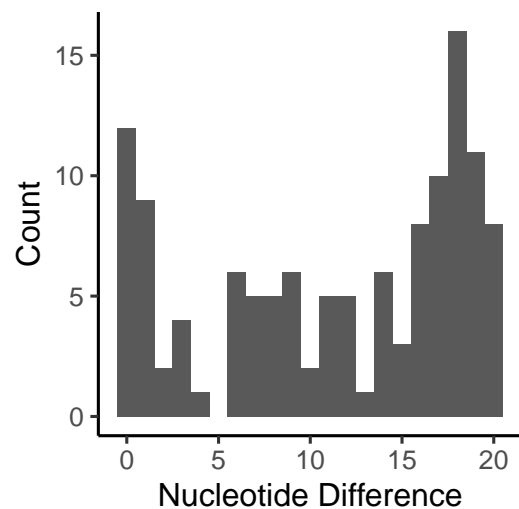
IGHV1-8*01

694 sequences assigned
29 (4.2%) exact matches, in which:
29 unique CDR3
5 unique J



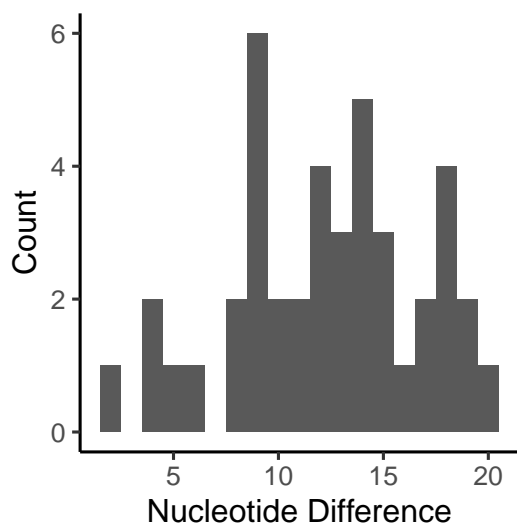
IGHV1-24*01

174 sequences assigned
12 (6.9%) exact matches, in which:
10 unique CDR3
5 unique J



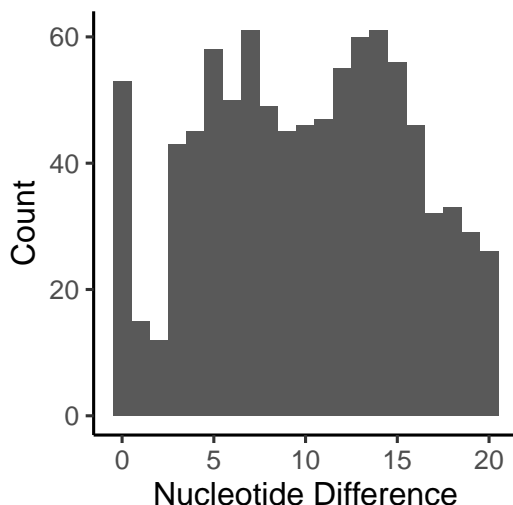
IGHV1-3*04

68 sequences assigned
No exact matches.



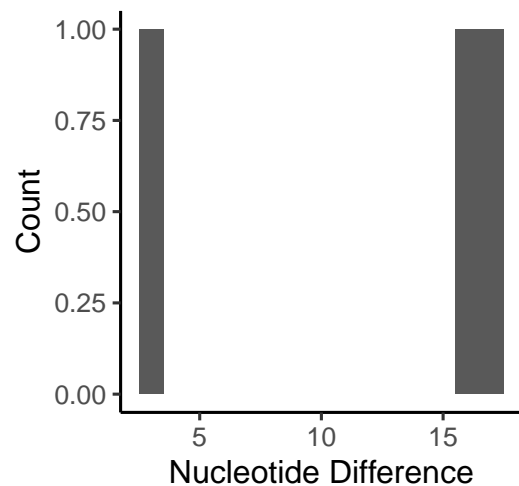
IGHV1-18*01

1202 sequences assigned
53 (4.4%) exact matches, in which:
51 unique CDR3
7 unique J



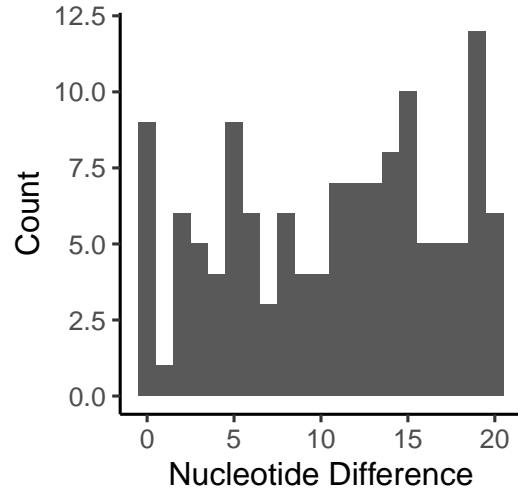
IGHV1-45*02

4 sequences assigned
No exact matches.



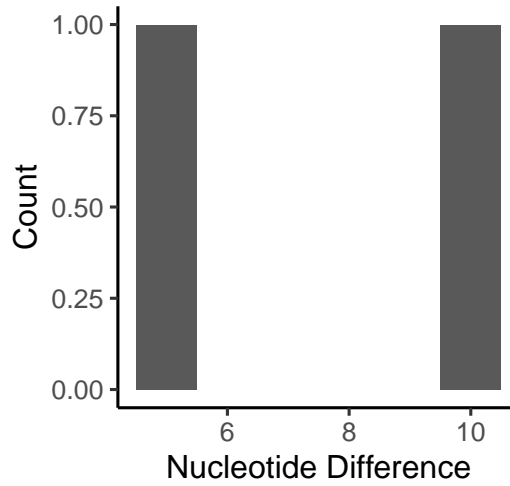
IGHV1-46*01

173 sequences assigned
9 (5.2%) exact matches, in which:
9 unique CDR3
5 unique J



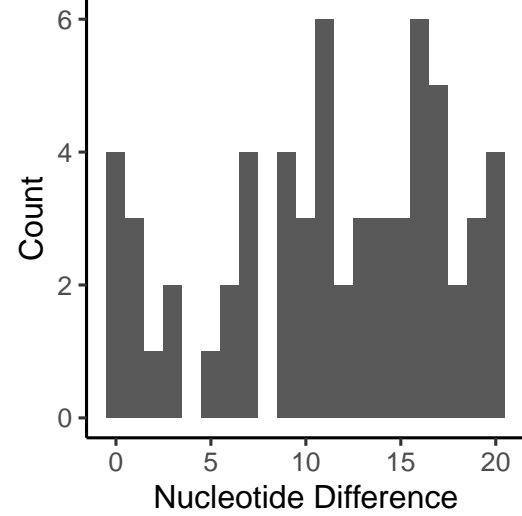
IGHV1-58*01_03

4 sequences assigned
No exact matches.



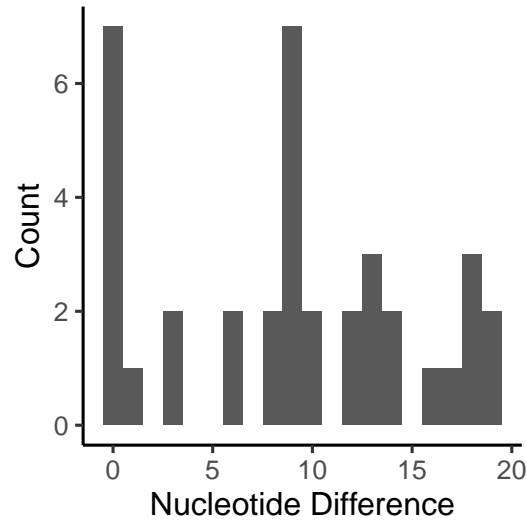
IGHV1-69*04_09

89 sequences assigned
4 (4.5%) exact matches, in which:
4 unique CDR3
1 unique J



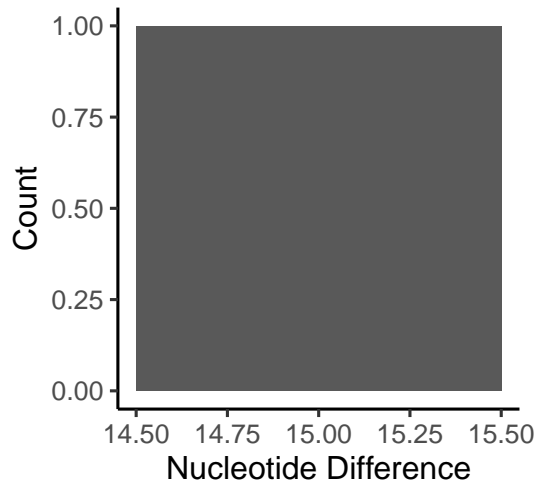
IGHV1-46*03

43 sequences assigned
7 (16.3%) exact matches, in which:
7 unique CDR3
4 unique J



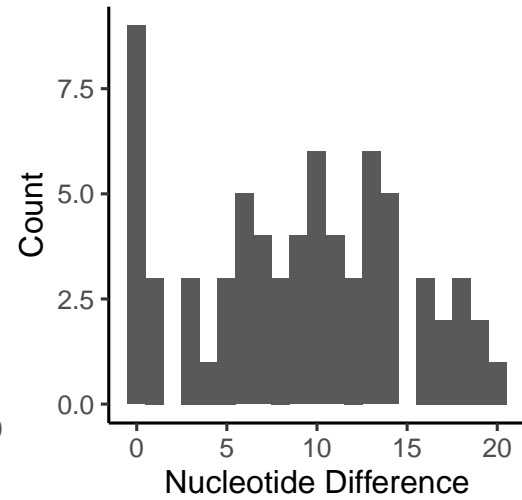
IGHV1-69-2*01

4 sequences assigned
No exact matches.



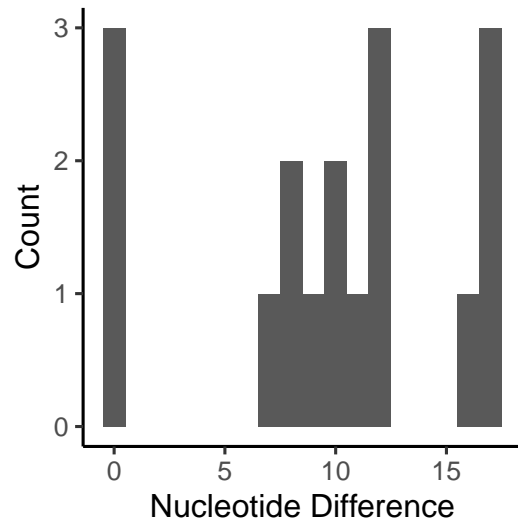
IGHV1-69*04_09_C184T

102 sequences assigned
9 (8.8%) exact matches, in which:
9 unique CDR3
4 unique J



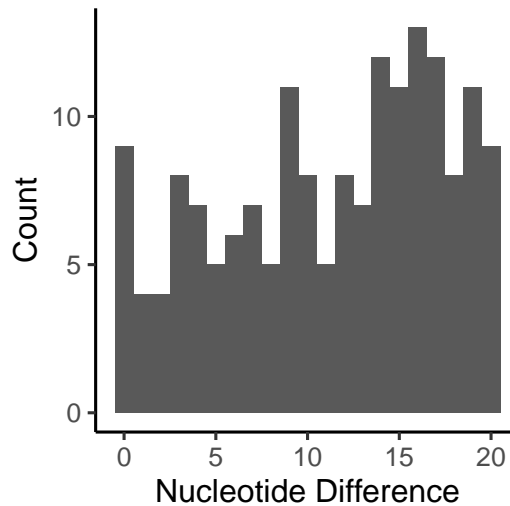
IGHV1-58*02

18 sequences assigned
3 (16.7%) exact matches, in which:
3 unique CDR3
2 unique J



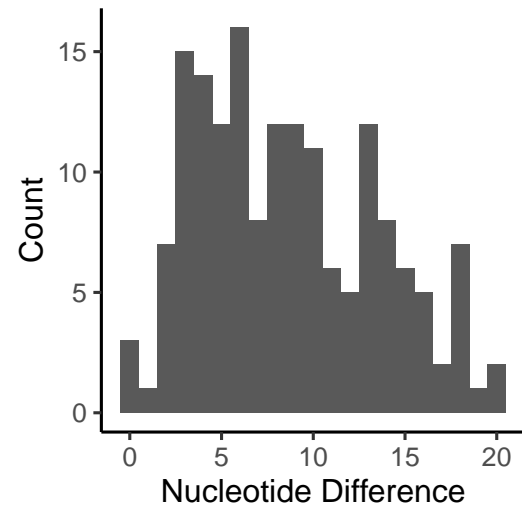
IGHV1-69*01_12_13

217 sequences assigned
9 (4.1%) exact matches, in which:
9 unique CDR3
3 unique J



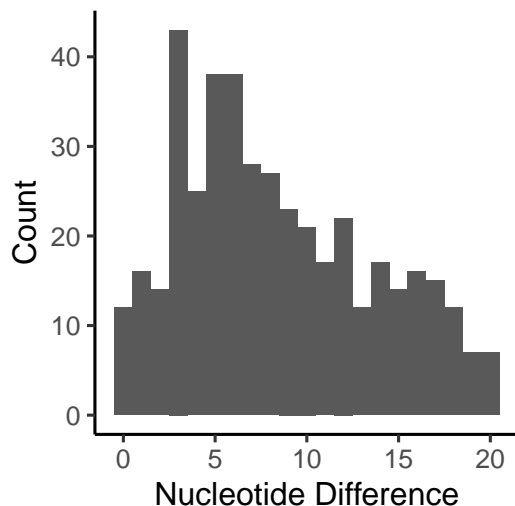
IGHV2-5*01

170 sequences assigned
3 (1.8%) exact matches, in which:
3 unique CDR3
2 unique J



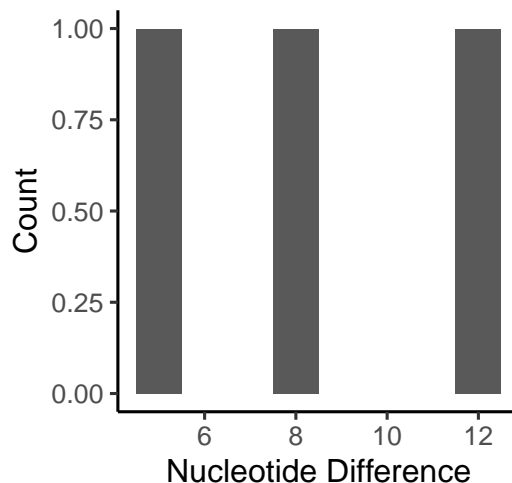
IGHV2-5*02

465 sequences assigned
12 (2.6%) exact matches, in which:
12 unique CDR3
2 unique J



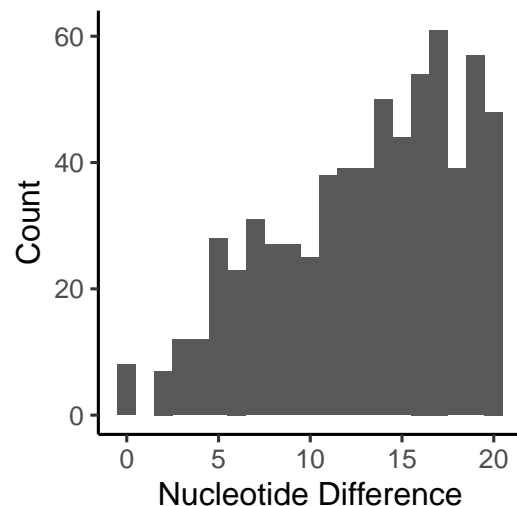
IGHV2-70*13

5 sequences assigned
No exact matches.



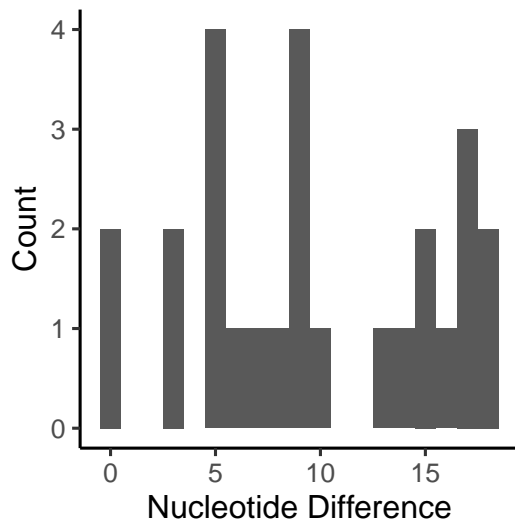
IGHV3-7*03

1041 sequences assigned
8 (0.8%) exact matches, in which:
4 unique CDR3
4 unique J



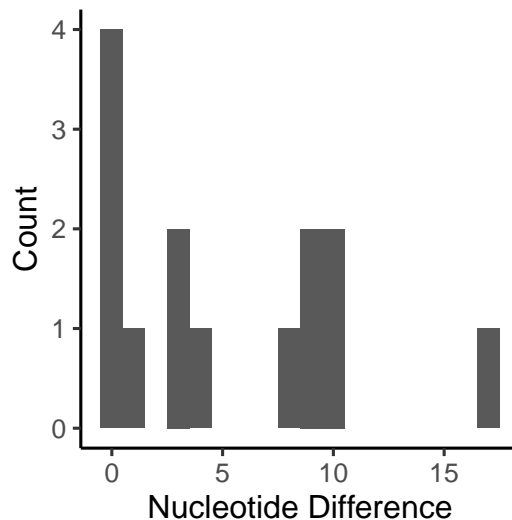
IGHV2-26*01

26 sequences assigned
2 (7.7%) exact matches, in which:
2 unique CDR3
2 unique J



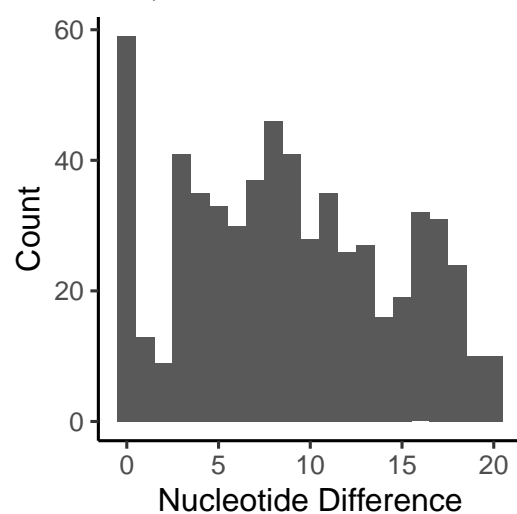
IGHV2-70*11_15

14 sequences assigned
4 (28.6%) exact matches, in which:
3 unique CDR3
1 unique J



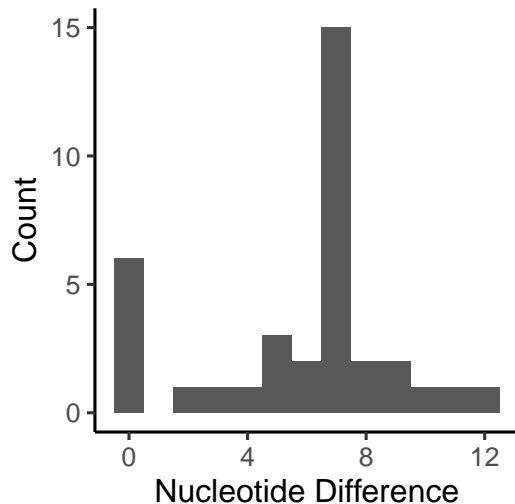
IGHV3-9*01

686 sequences assigned
59 (8.6%) exact matches, in which:
44 unique CDR3
7 unique J



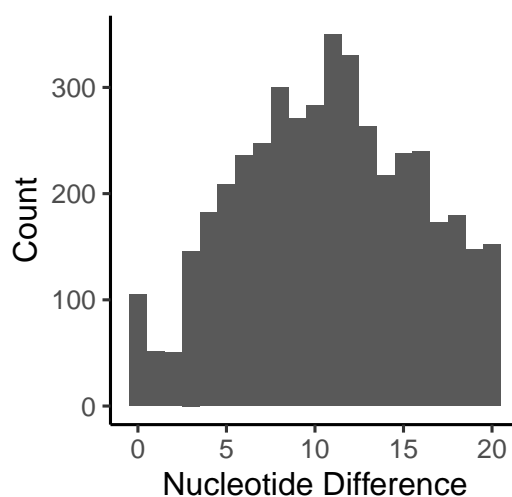
IGHV2-70*01

38 sequences assigned
6 (15.8%) exact matches, in which:
5 unique CDR3
4 unique J



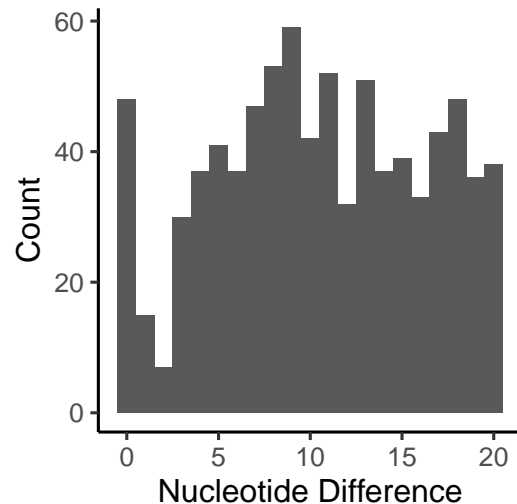
IGHV3-7*01

5014 sequences assigned
105 (2.1%) exact matches, in which:
56 unique CDR3
7 unique J



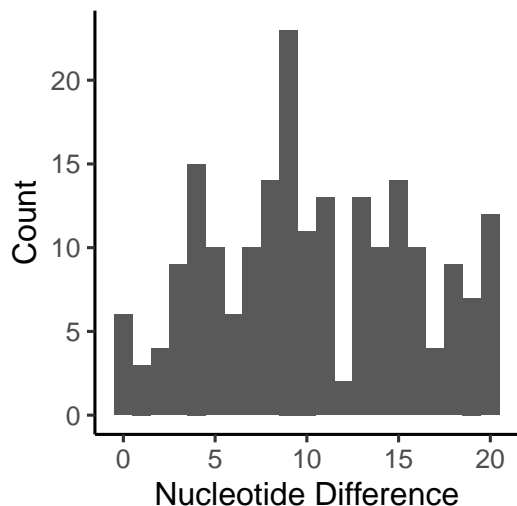
IGHV3-11*01

1068 sequences assigned
48 (4.5%) exact matches, in which:
26 unique CDR3
5 unique J



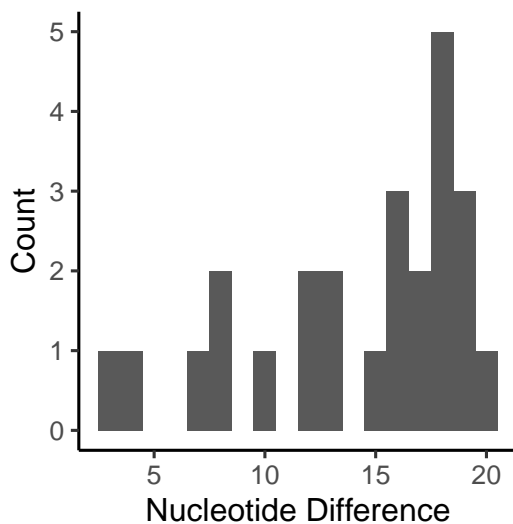
IGHV3-13*01

237 sequences assigned
6 (2.5%) exact matches, in which:
5 unique CDR3
3 unique J



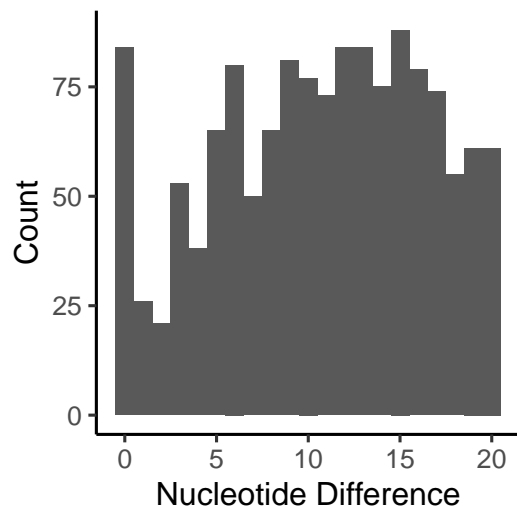
IGHV3-20*03_04

33 sequences assigned
No exact matches.



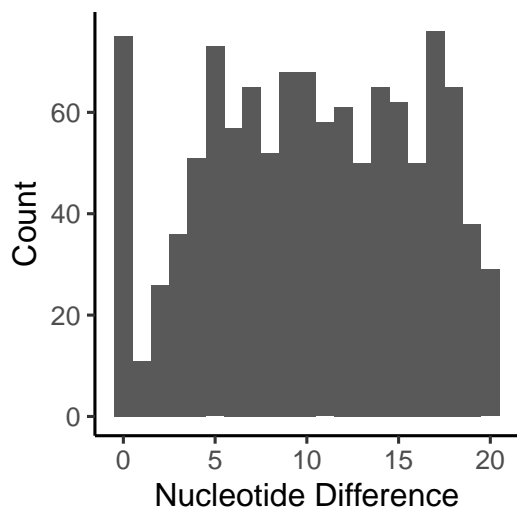
IGHV3-30-3*01

1657 sequences assigned
84 (5.1%) exact matches, in which:
60 unique CDR3
6 unique J



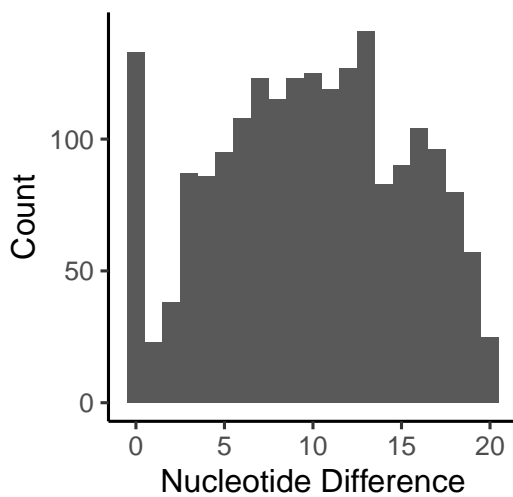
IGHV3-15*01_02

1383 sequences assigned
75 (5.4%) exact matches, in which:
53 unique CDR3
5 unique J



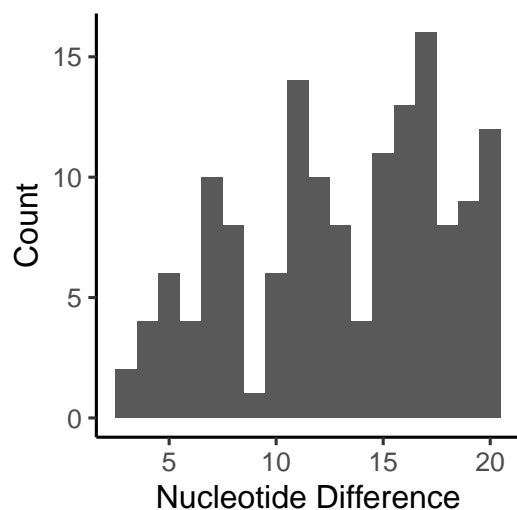
IGHV3-21*01_02

2263 sequences assigned
133 (5.9%) exact matches, in which:
76 unique CDR3
7 unique J



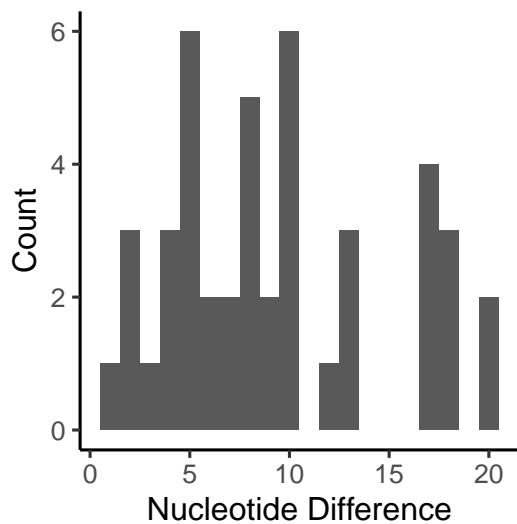
IGHV3-30*04

218 sequences assigned
No exact matches.



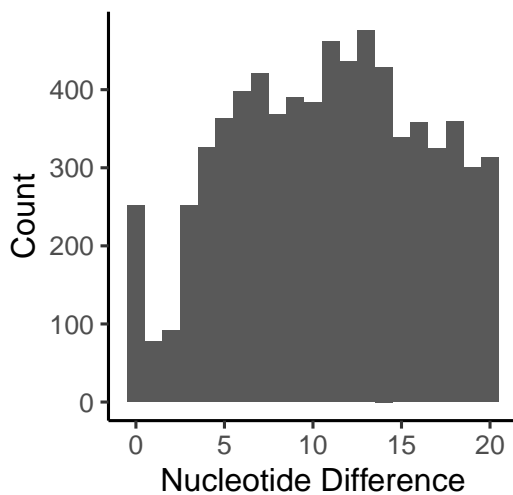
IGHV3-20*01_02

45 sequences assigned
No exact matches.



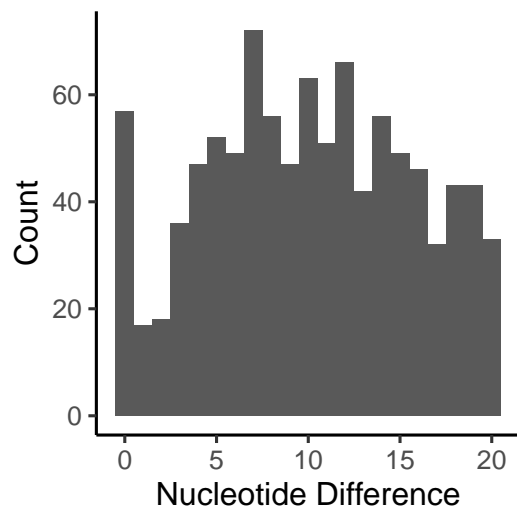
IGHV3-23*01_04

9196 sequences assigned
252 (2.7%) exact matches, in which:
149 unique CDR3
7 unique J



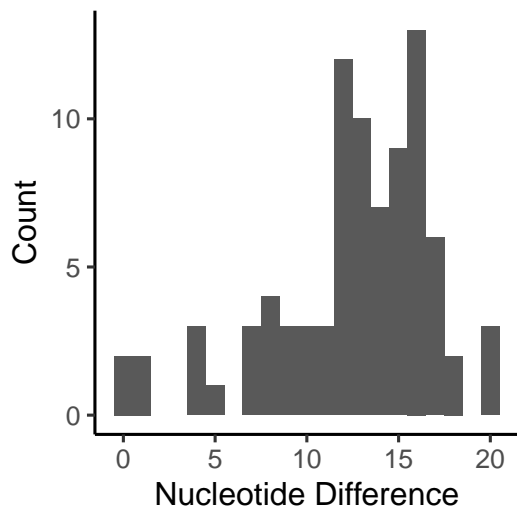
IGHV3-33*01

1235 sequences assigned
57 (4.6%) exact matches, in which:
43 unique CDR3
6 unique J



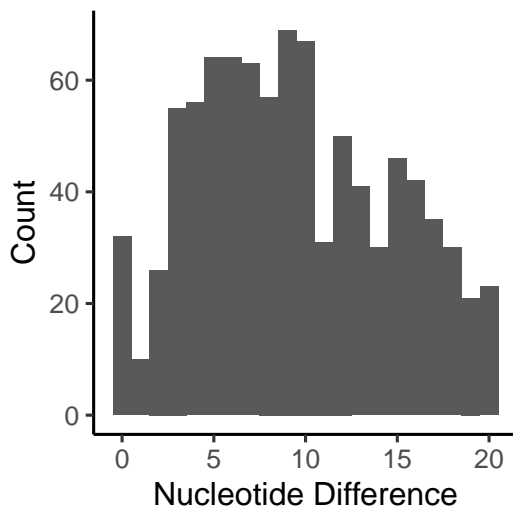
IGHV3-43*01

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



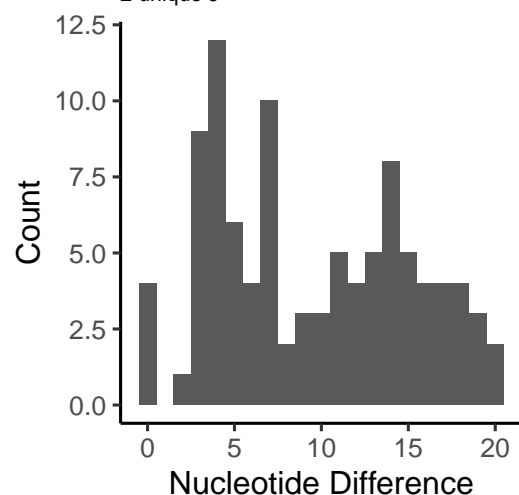
IGHV3-48*03

1088 sequences assigned
32 (2.9%) exact matches, in which:
22 unique CDR3
4 unique J



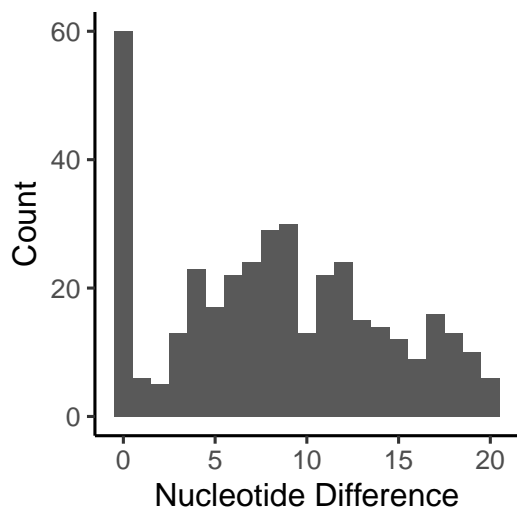
IGHV3-49*03_05

111 sequences assigned
4 (3.6%) exact matches, in which:
3 unique CDR3
2 unique J



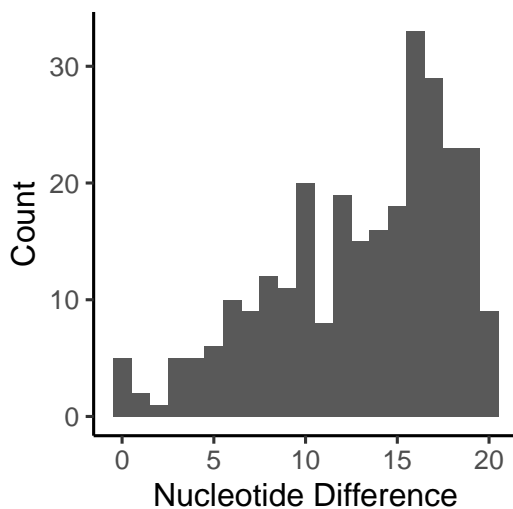
IGHV3-43*02

429 sequences assigned
60 (14%) exact matches, in which:
33 unique CDR3
4 unique J



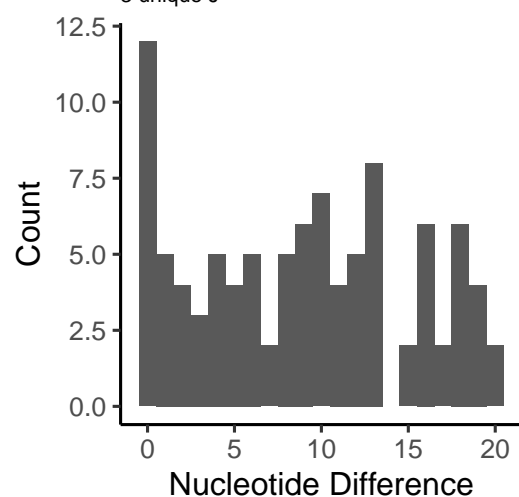
IGHV3-48*04

390 sequences assigned
5 (1.3%) exact matches, in which:
3 unique CDR3
1 unique J



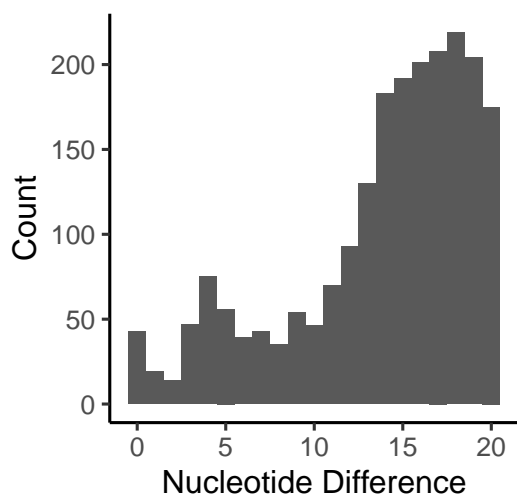
IGHV3-53*04

136 sequences assigned
12 (8.8%) exact matches, in which:
6 unique CDR3
3 unique J



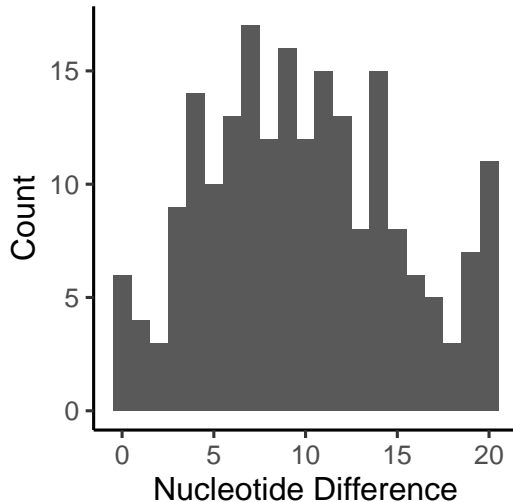
IGHV3-48*01

3002 sequences assigned
43 (1.4%) exact matches, in which:
19 unique CDR3
3 unique J



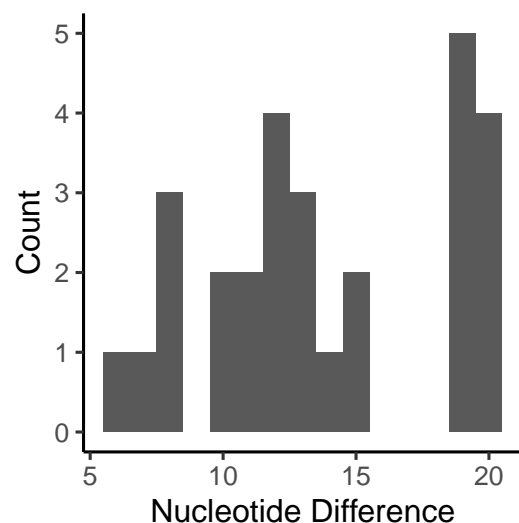
IGHV3-49*04

244 sequences assigned
6 (2.5%) exact matches, in which:
3 unique CDR3
2 unique J



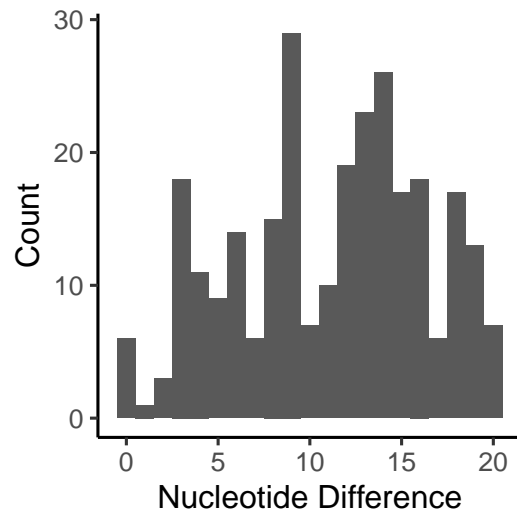
IGHV3-53*05

52 sequences assigned
No exact matches.



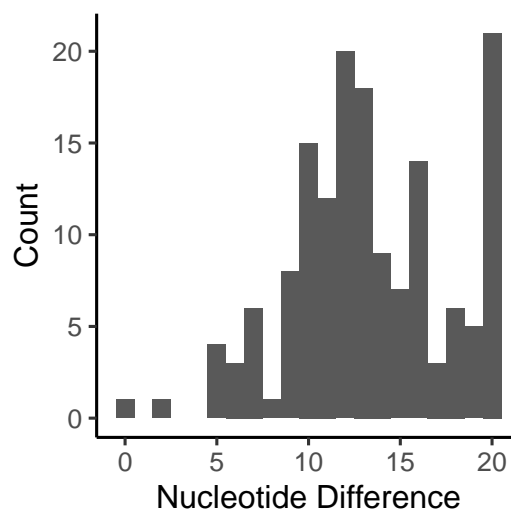
IGHV3-53*01_02

326 sequences assigned
6 (1.8%) exact matches, in which:
2 unique CDR3
2 unique J



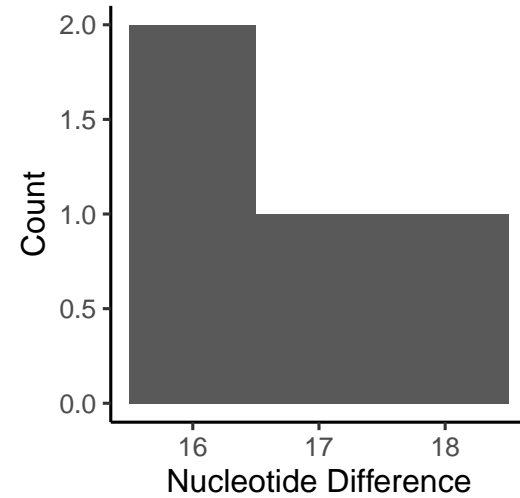
IGHV3-66*01

247 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



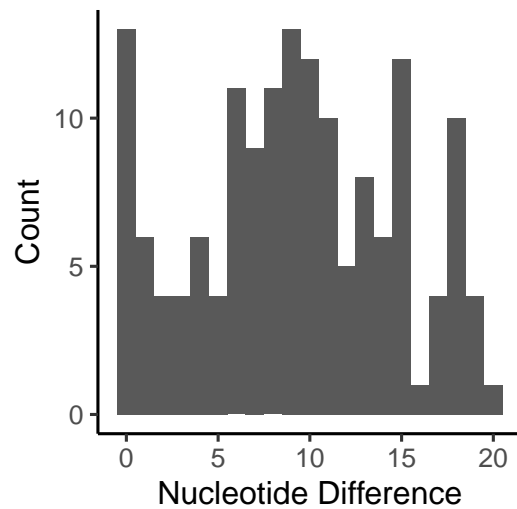
IGHV3-69-1*02

8 sequences assigned
No exact matches.



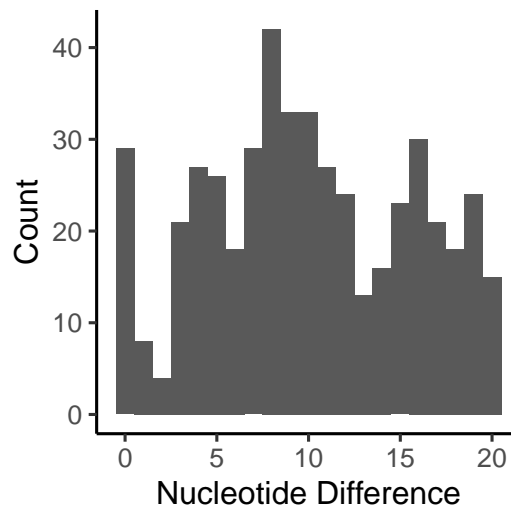
IGHV3-64*01

171 sequences assigned
13 (7.6%) exact matches, in which:
7 unique CDR3
3 unique J



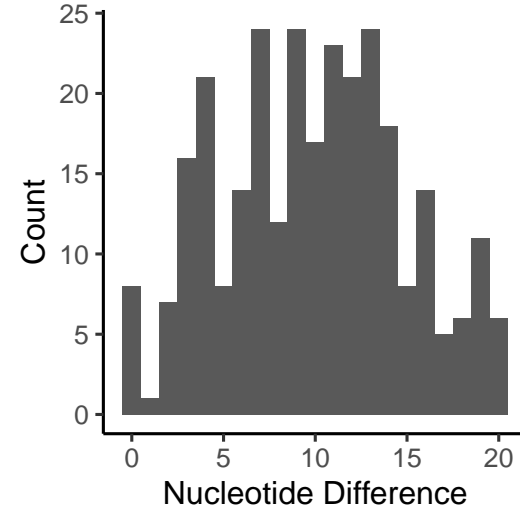
IGHV3-66*02

599 sequences assigned
29 (4.8%) exact matches, in which:
19 unique CDR3
4 unique J



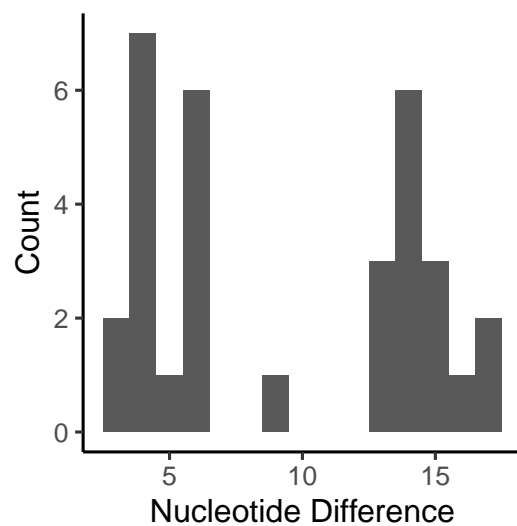
IGHV3-72*01

314 sequences assigned
8 (2.5%) exact matches, in which:
5 unique CDR3
2 unique J



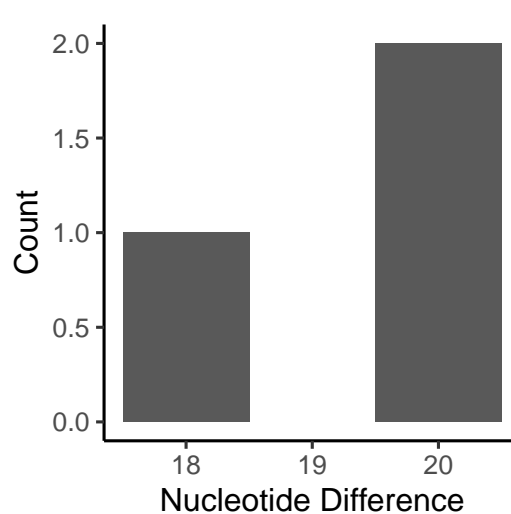
IGHV3-64*02_07

43 sequences assigned
No exact matches.



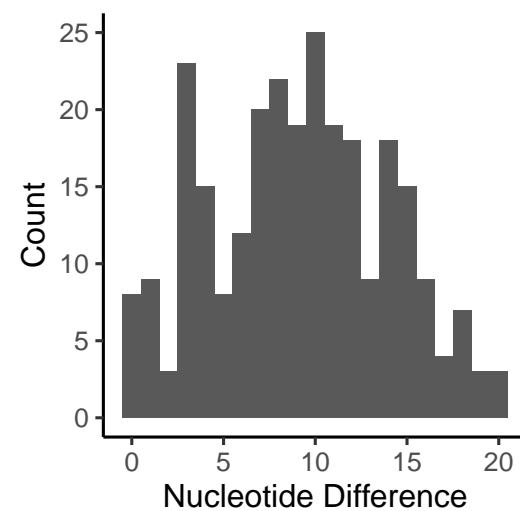
IGHV3-69-1*01

4 sequences assigned
No exact matches.



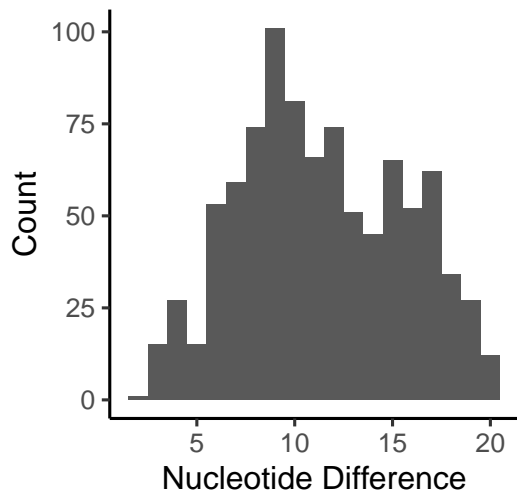
IGHV3-73*01_02

302 sequences assigned
8 (2.6%) exact matches, in which:
5 unique CDR3
2 unique J



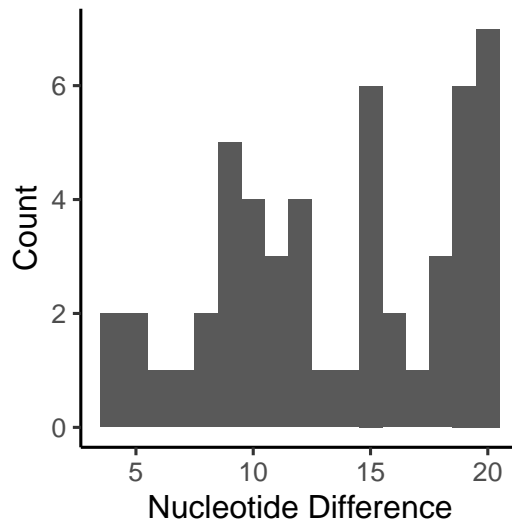
IGHV3-74*03

1001 sequences assigned
No exact matches.



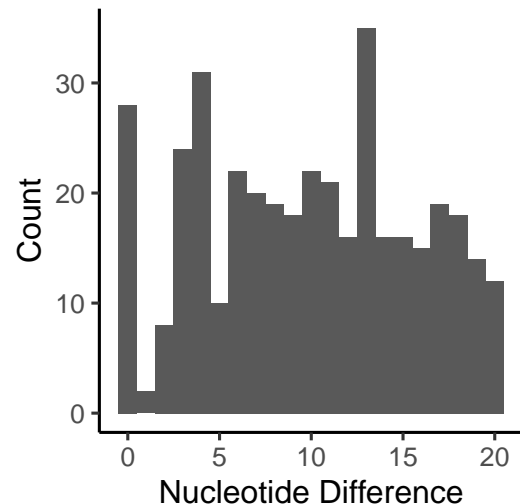
IGHV3-64D*06

158 sequences assigned
No exact matches.



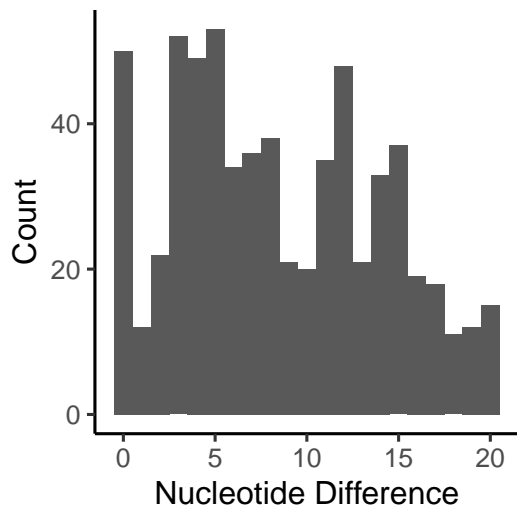
IGHV4-4*07

450 sequences assigned
28 (6.2%) exact matches, in which:
16 unique CDR3
3 unique J



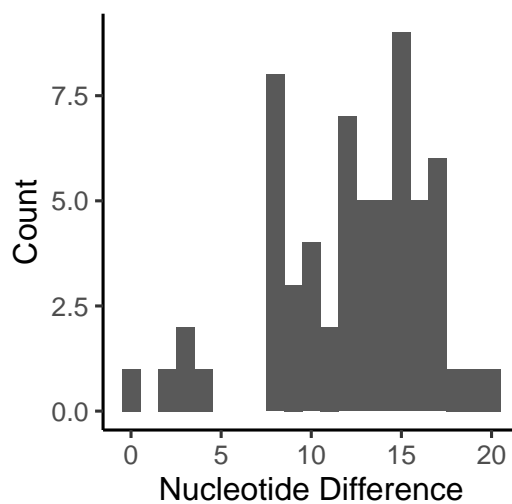
IGHV3-74*01_02

679 sequences assigned
50 (7.4%) exact matches, in which:
28 unique CDR3
6 unique J



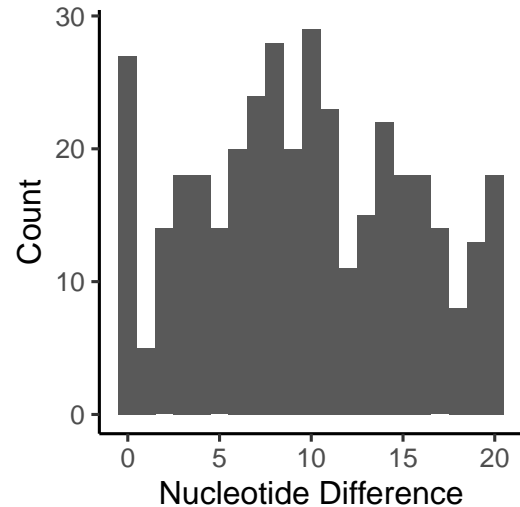
IGHV3-64D*09

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



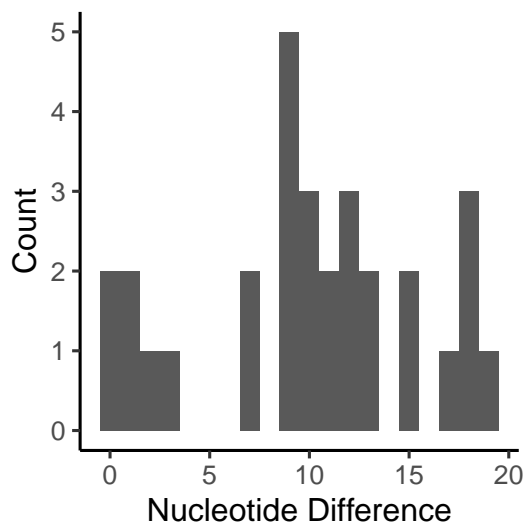
IGHV4-4*02_03

481 sequences assigned
27 (5.6%) exact matches, in which:
21 unique CDR3
6 unique J



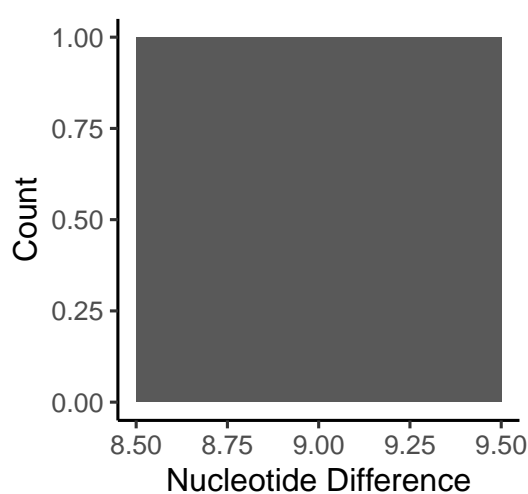
IGHV3-43D*03

34 sequences assigned
2 (5.9%) exact matches, in which:
2 unique CDR3
1 unique J



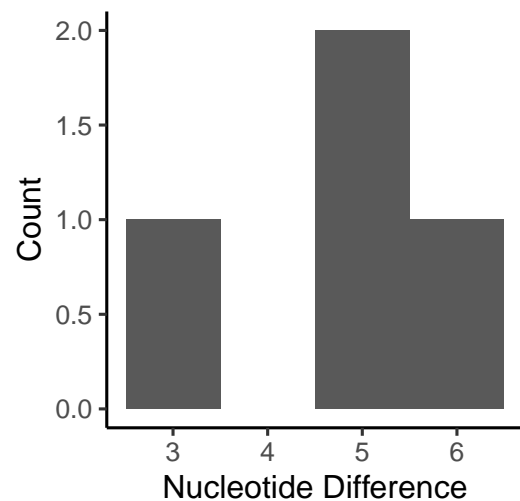
IGHV3-NL1*01

1 sequences assigned
No exact matches.



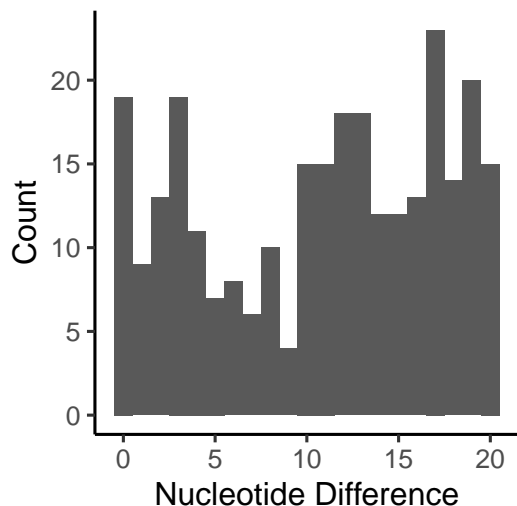
IGHV4-28*01_07

7 sequences assigned
No exact matches.



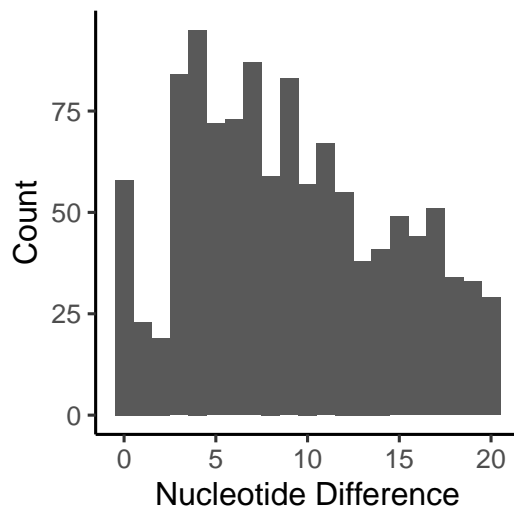
IGHV4-30-2*01

486 sequences assigned
19 (3.9%) exact matches, in which:
12 unique CDR3
3 unique J



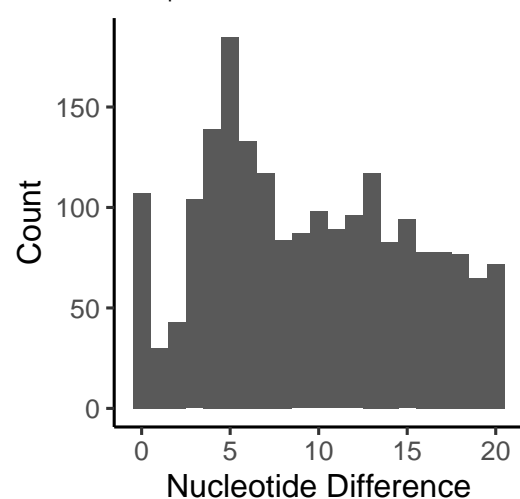
IGHV4-34*01_02

1425 sequences assigned
58 (4.1%) exact matches, in which:
36 unique CDR3
6 unique J



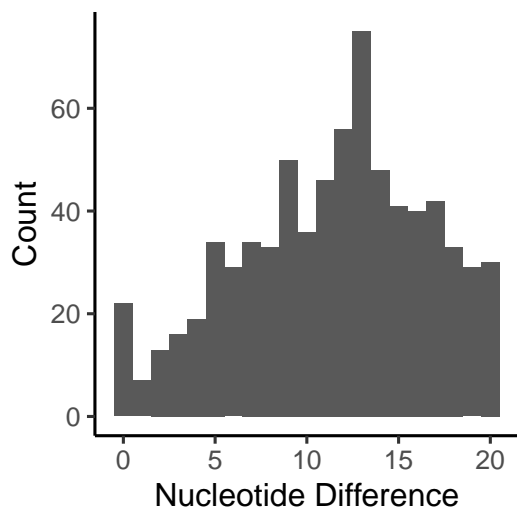
IGHV4-39*02_C258G

2547 sequences assigned
107 (4.2%) exact matches, in which:
77 unique CDR3
7 unique J



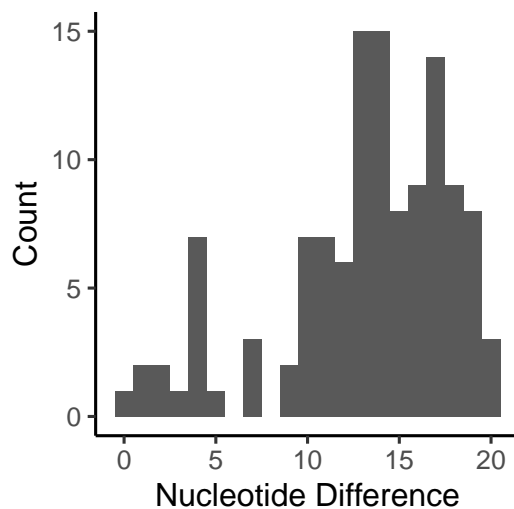
IGHV4-30-4*01

916 sequences assigned
22 (2.4%) exact matches, in which:
15 unique CDR3
3 unique J



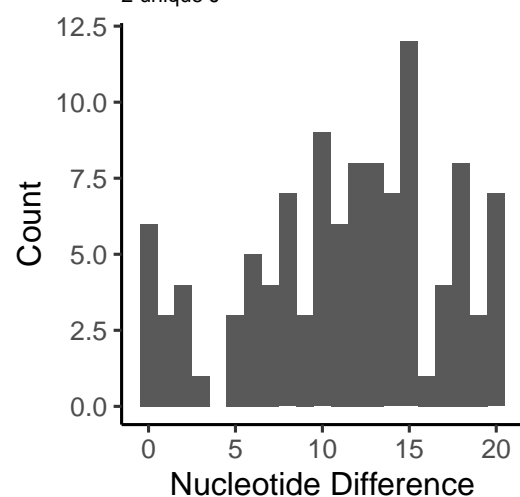
IGHV4-38-2*02

185 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



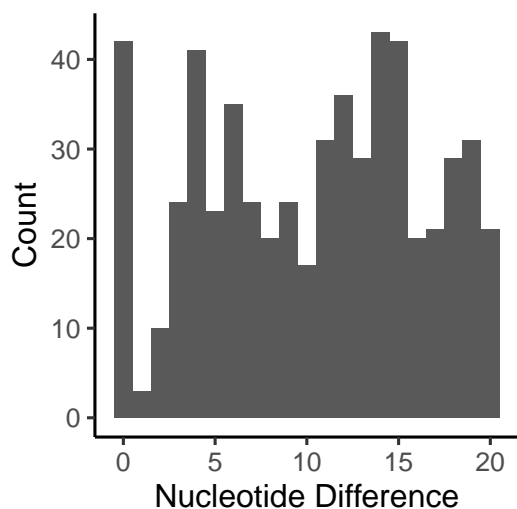
IGHV4-59*02

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



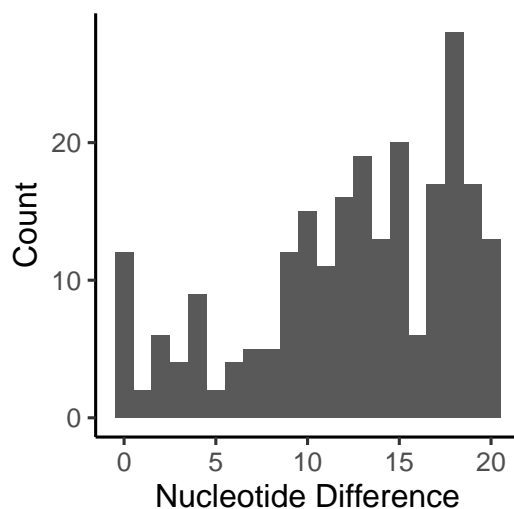
IGHV4-31*02

835 sequences assigned
42 (5%) exact matches, in which:
35 unique CDR3
4 unique J



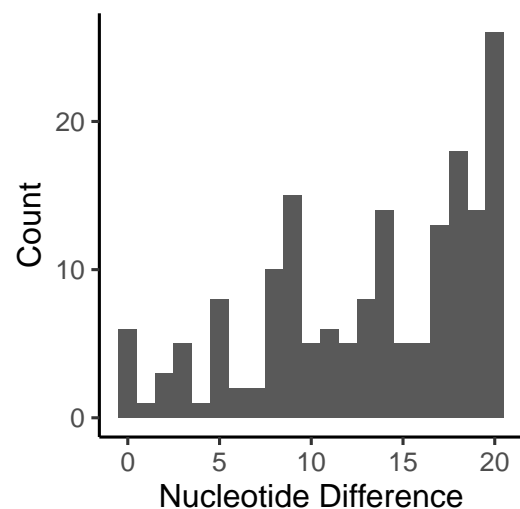
IGHV4-39*07

415 sequences assigned
12 (2.9%) exact matches, in which:
11 unique CDR3
3 unique J



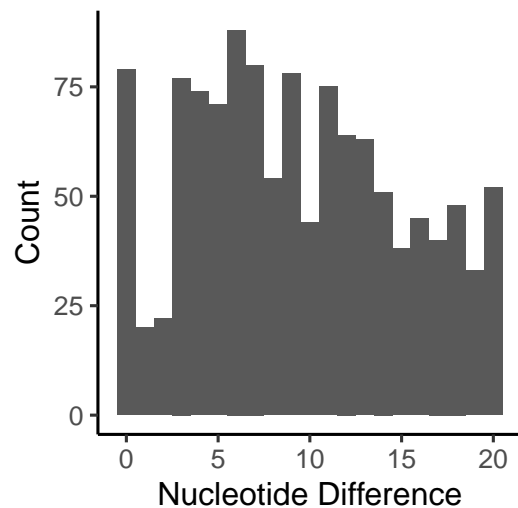
IGHV4-59*08

355 sequences assigned
6 (1.7%) exact matches, in which:
4 unique CDR3
3 unique J



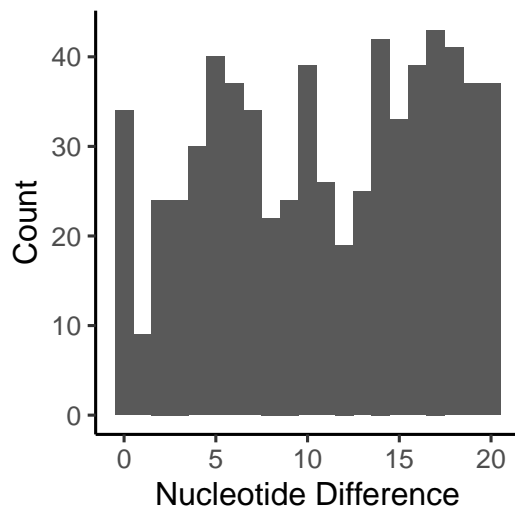
IGHV4-59*01_07

1452 sequences assigned
79 (5.4%) exact matches, in which:
49 unique CDR3
7 unique J



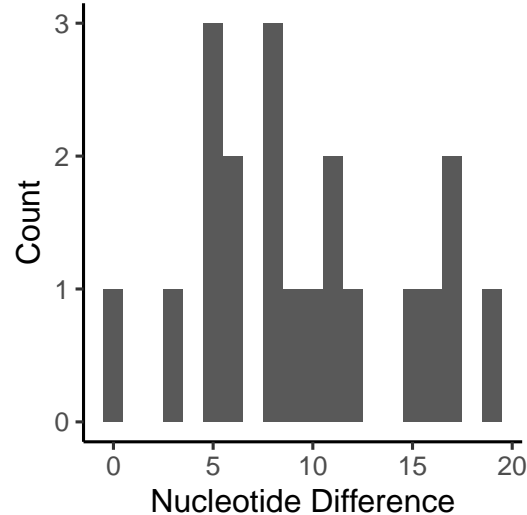
IGHV4-61*02_A234G

914 sequences assigned
34 (3.7%) exact matches, in which:
25 unique CDR3
5 unique J



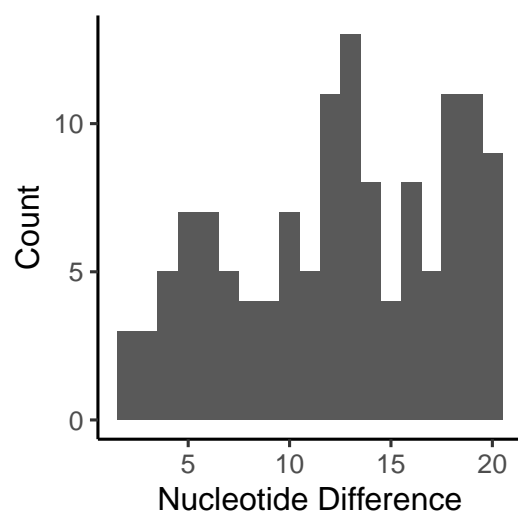
IGHV5-10-1*01_03

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



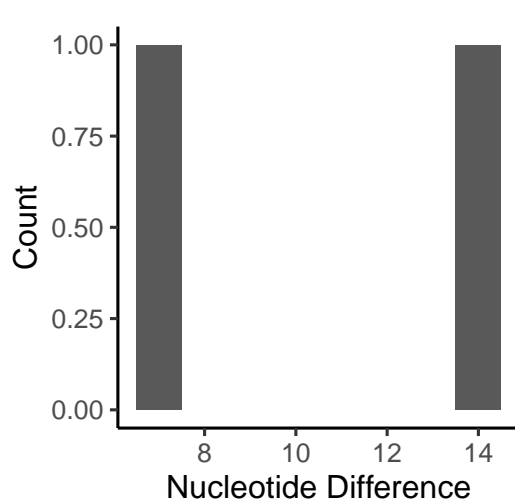
IGHV4-59*11

285 sequences assigned
No exact matches.



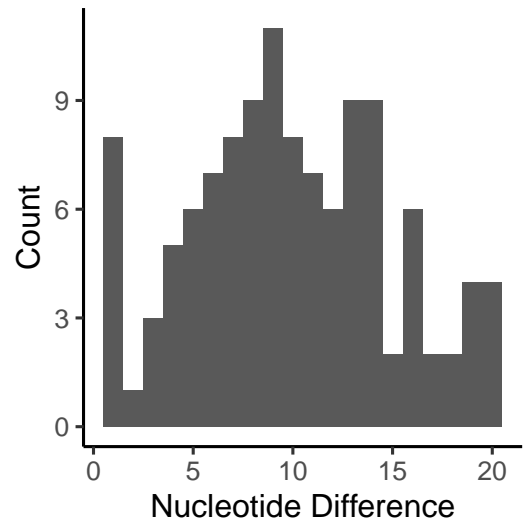
IGHV4/OR15-8*01

4 sequences assigned
No exact matches.



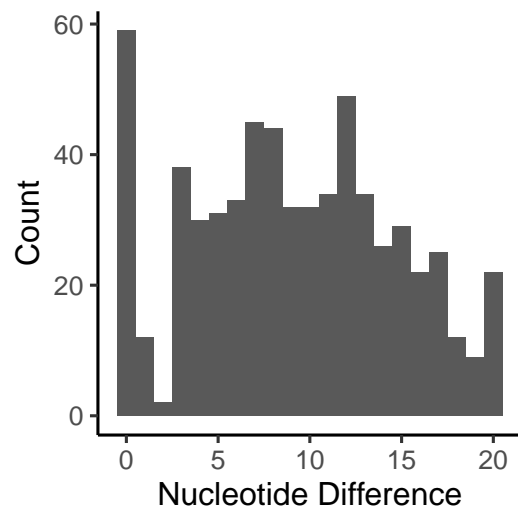
IGHV5-51*07

133 sequences assigned
No exact matches.



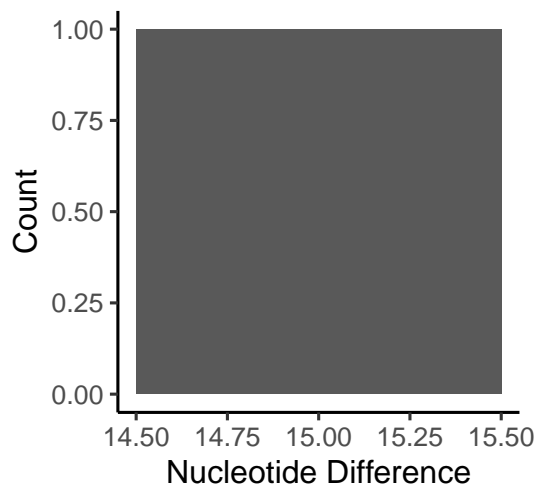
IGHV4-61*02

687 sequences assigned
59 (8.6%) exact matches, in which:
45 unique CDR3
5 unique J



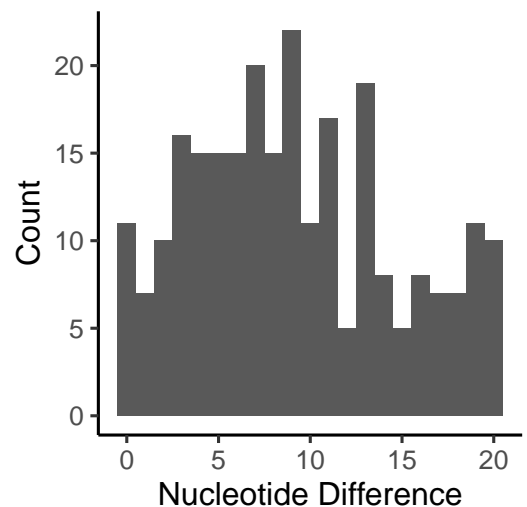
IGHV4/OR15-8*02

5 sequences assigned
No exact matches.



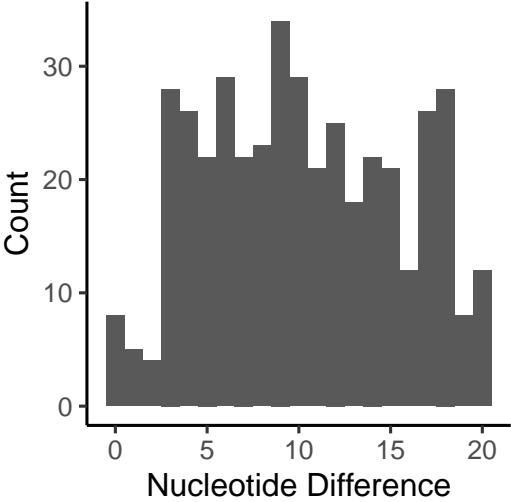
IGHV5-51*01_03

283 sequences assigned
11 (3.9%) exact matches, in which:
11 unique CDR3
4 unique J



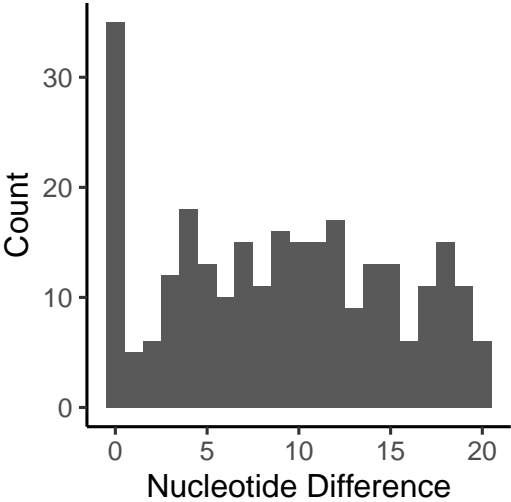
IGHV6-1*01_02

482 sequences assigned
8 (1.7%) exact matches, in which:
8 unique CDR3
5 unique J

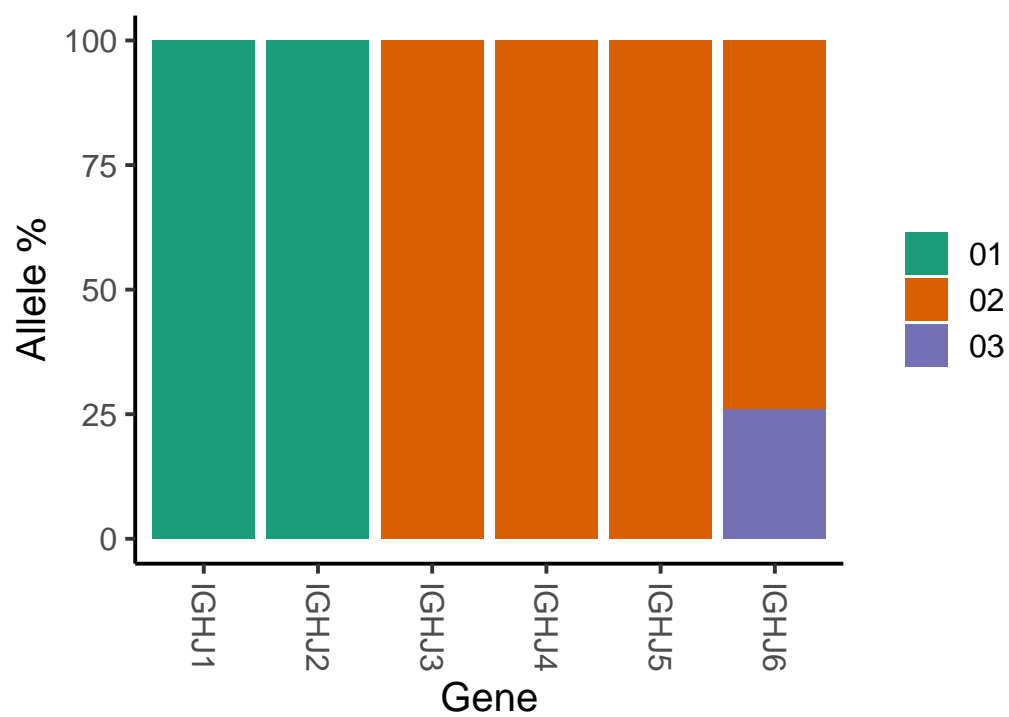


IGHV7-4-1*02

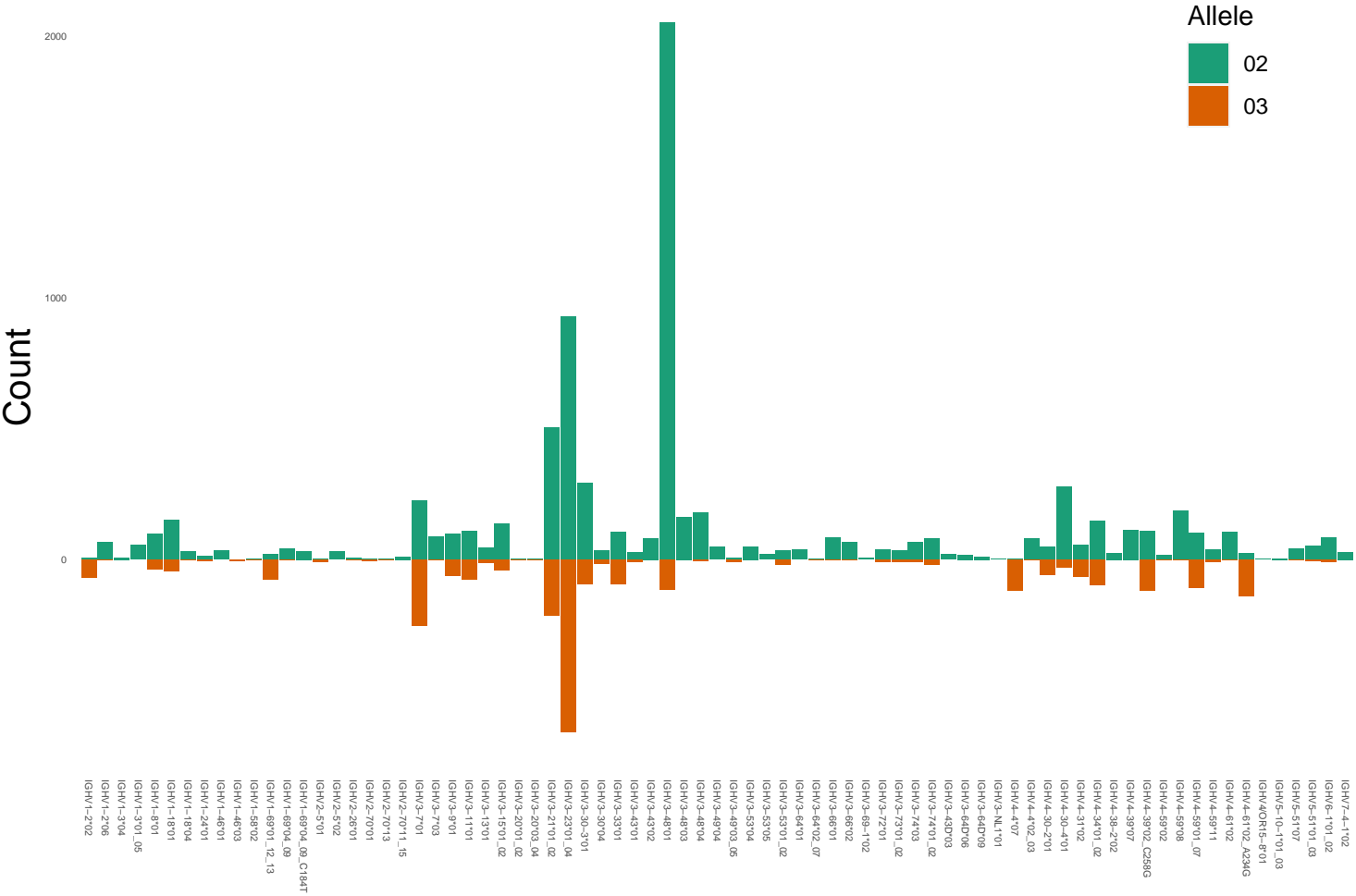
309 sequences assigned
35 (11.3%) exact matches, in which:
33 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.