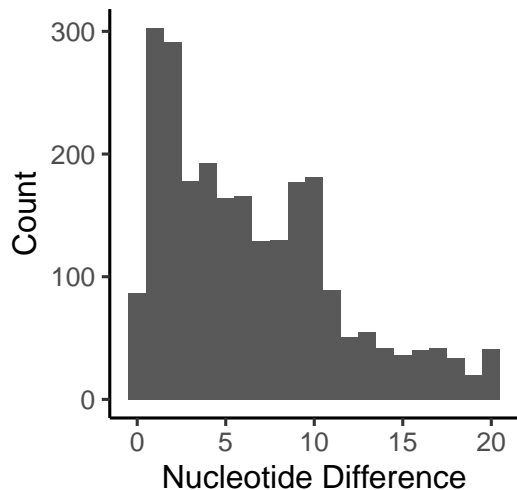


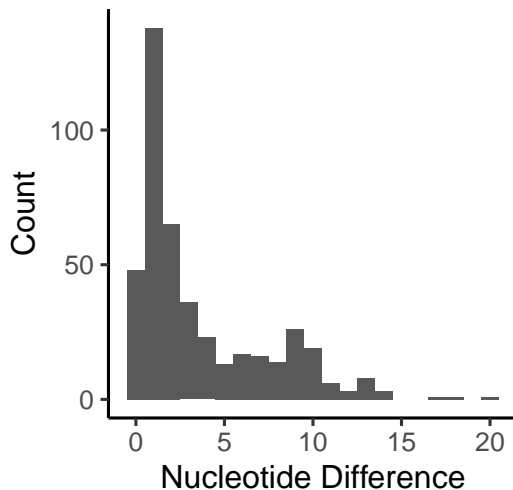
IGHV1-2*02

2718 sequences assigned
87 (3.2%) exact matches, in which:
66 unique CDR3
7 unique J



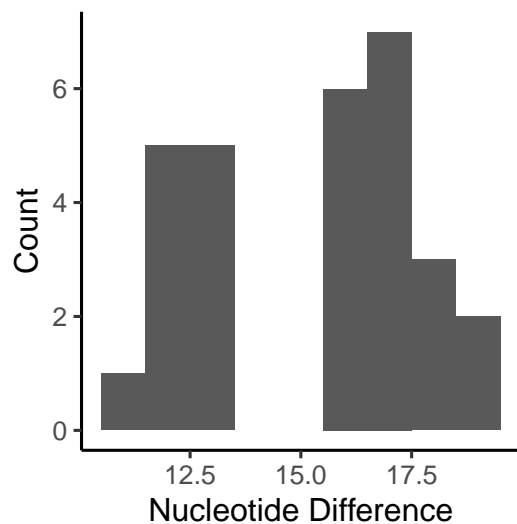
IGHV1-8*03

442 sequences assigned
48 (10.9%) exact matches, in which:
28 unique CDR3
1 unique J



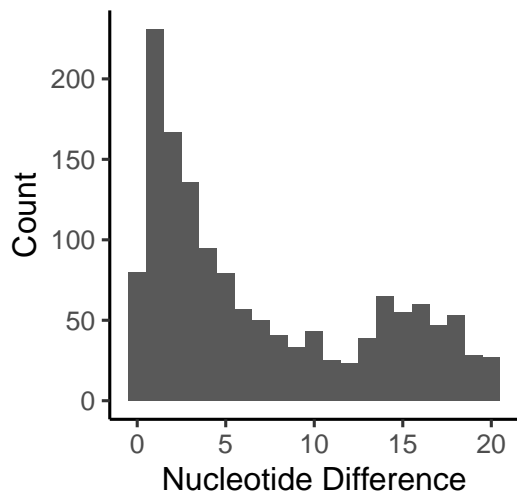
IGHV1-45*02

102 sequences assigned
No exact matches.



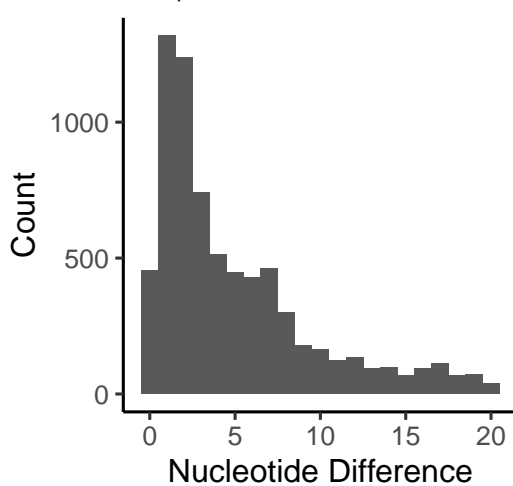
IGHV1-3*01_05

1611 sequences assigned
80 (5%) exact matches, in which:
54 unique CDR3
4 unique J



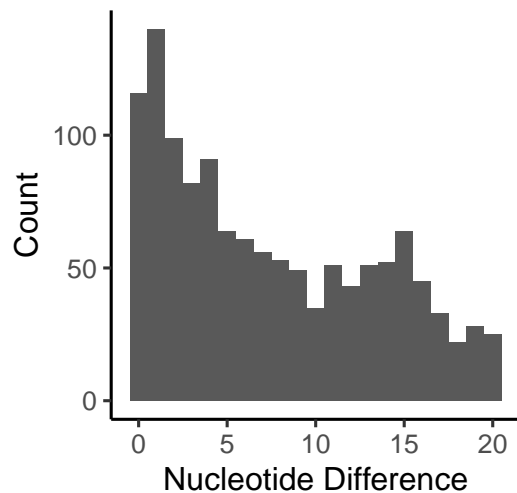
IGHV1-18*01

7623 sequences assigned
455 (6%) exact matches, in which:
309 unique CDR3
7 unique J



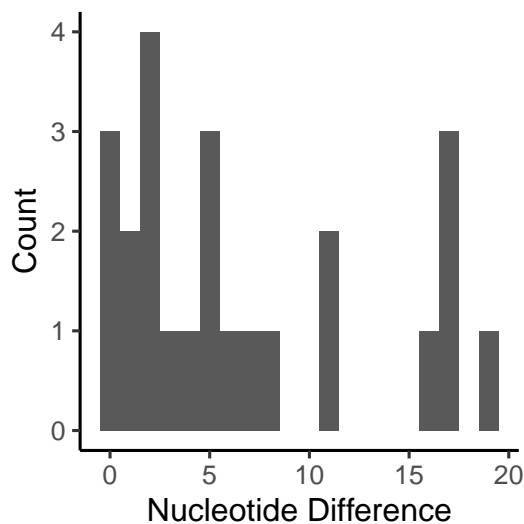
IGHV1-46*01

1534 sequences assigned
116 (7.6%) exact matches, in which:
98 unique CDR3
7 unique J



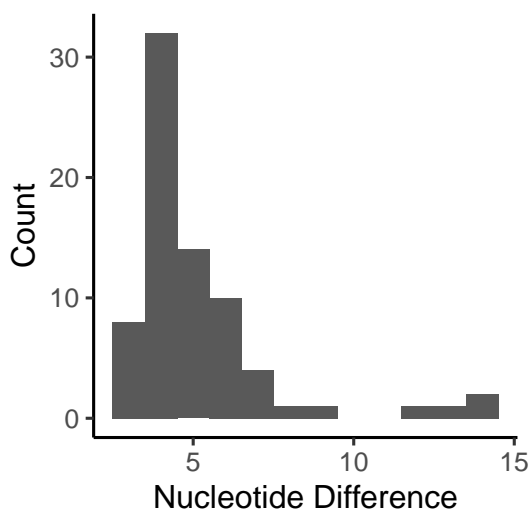
IGHV1-8*01

36 sequences assigned
3 (8.3%) exact matches, in which:
3 unique CDR3
2 unique J



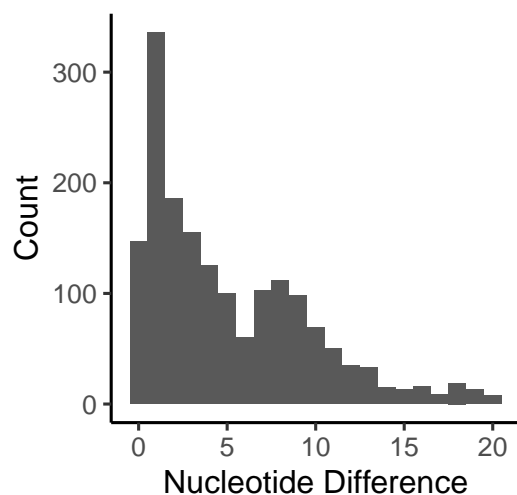
IGHV1-24*01

74 sequences assigned
No exact matches.



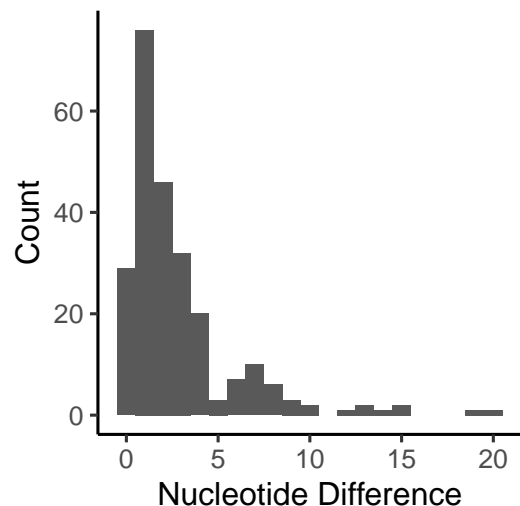
IGHV1-46*03

2051 sequences assigned
147 (7.2%) exact matches, in which:
83 unique CDR3
6 unique J



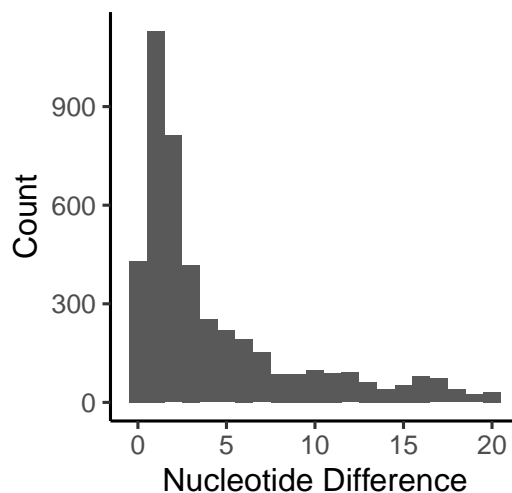
IGHV1-58*02

251 sequences assigned
29 (11.6%) exact matches, in which:
24 unique CDR3
5 unique J



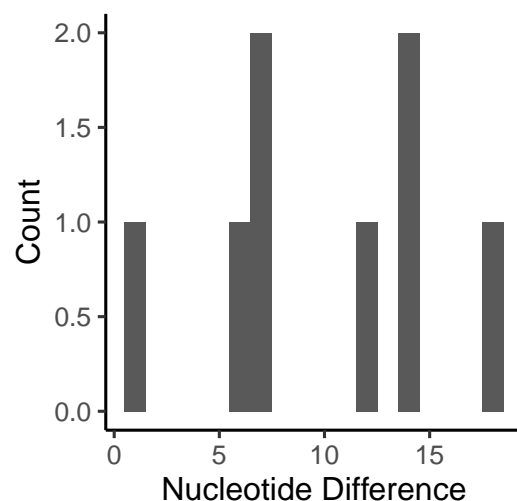
IGHV1-69*01_12_13

4892 sequences assigned
429 (8.8%) exact matches, in which:
280 unique CDR3
7 unique J



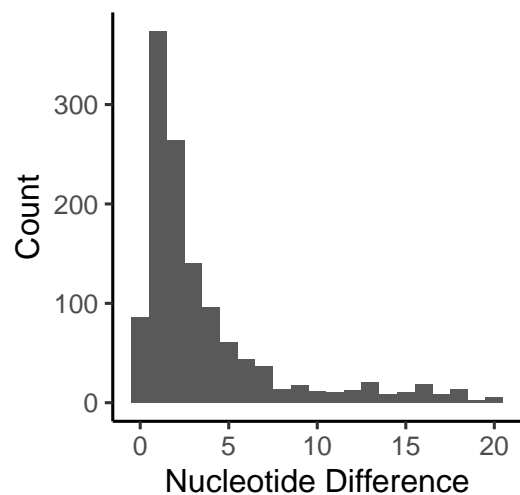
IGHV2-70*04

8 sequences assigned
No exact matches.



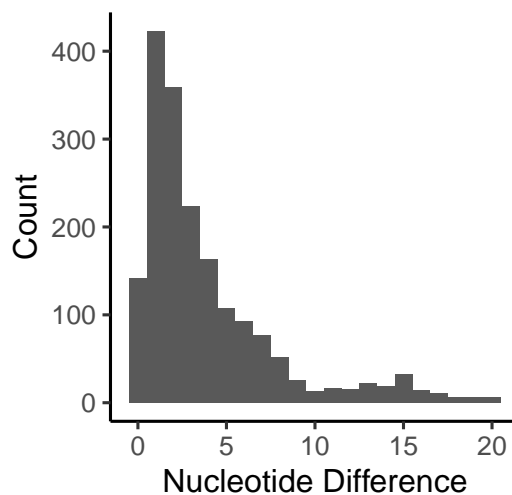
IGHV1-69-2*01

1425 sequences assigned
86 (6%) exact matches, in which:
46 unique CDR3
4 unique J



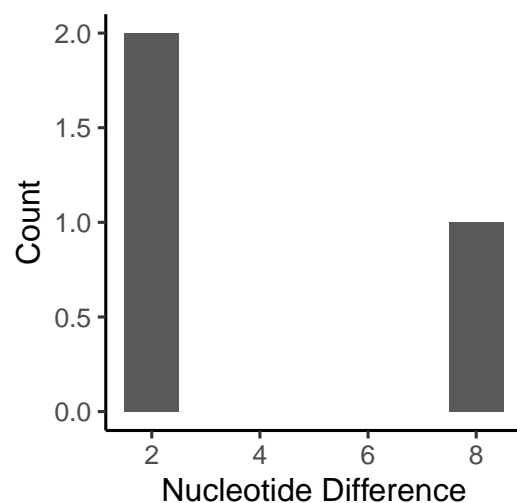
IGHV1-69*06_14

1870 sequences assigned
142 (7.6%) exact matches, in which:
102 unique CDR3
7 unique J



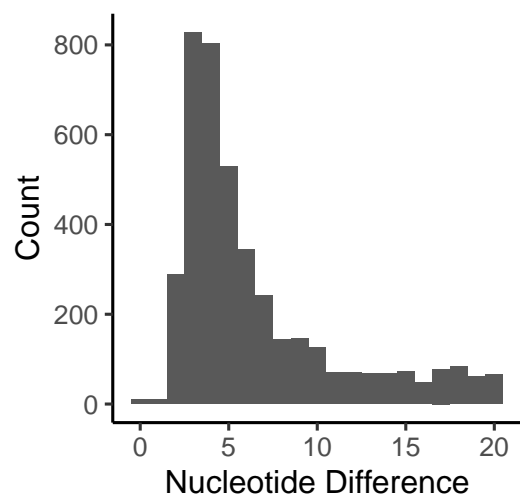
IGHV2-70*11_15

3 sequences assigned
No exact matches.



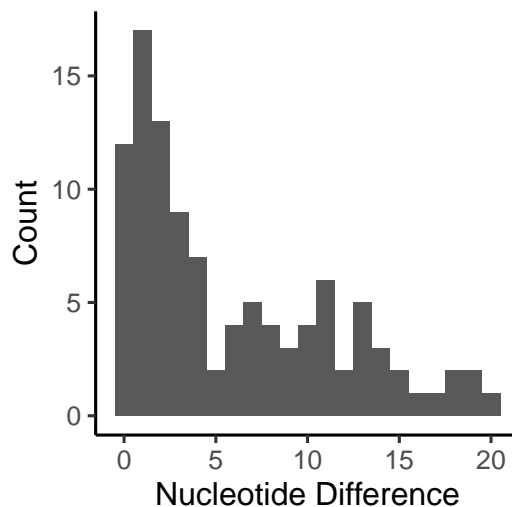
IGHV1-69*05

5758 sequences assigned
10 (0.2%) exact matches, in which:
10 unique CDR3
5 unique J



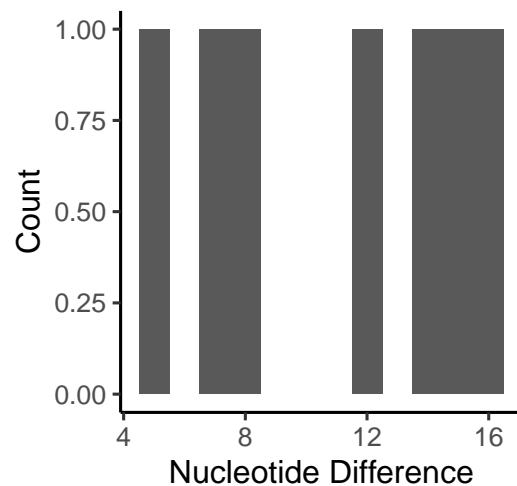
IGHV2-5*01

125 sequences assigned
12 (9.6%) exact matches, in which:
11 unique CDR3
4 unique J



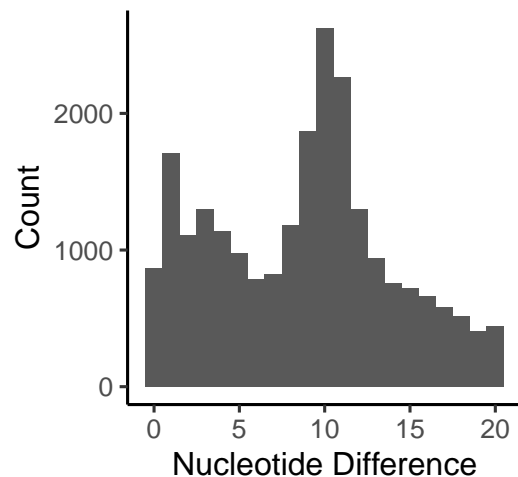
IGHV2-70*16_17

7 sequences assigned
No exact matches.



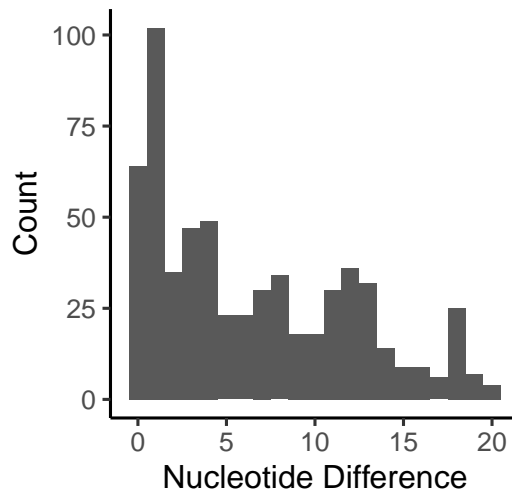
IGHV3-7*01

25791 sequences assigned
869 (3.4%) exact matches, in which:
564 unique CDR3
7 unique J



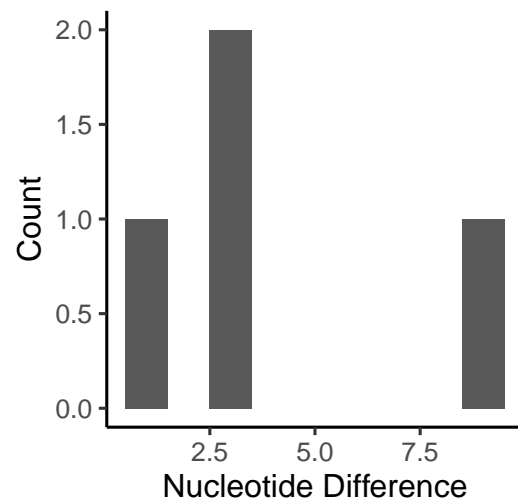
IGHV3-9*03

661 sequences assigned
64 (9.7%) exact matches, in which:
41 unique CDR3
4 unique J



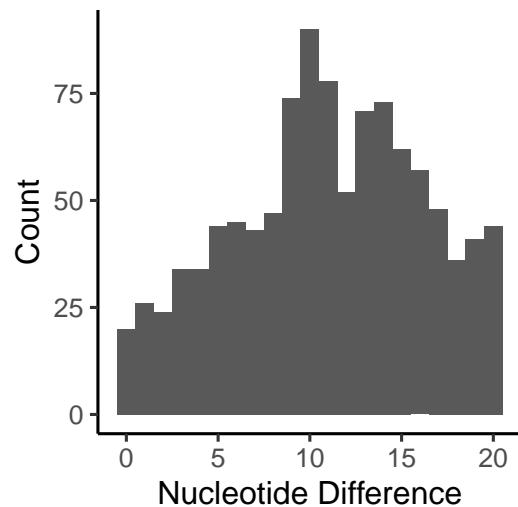
IGHV3-13*03

4 sequences assigned
No exact matches.



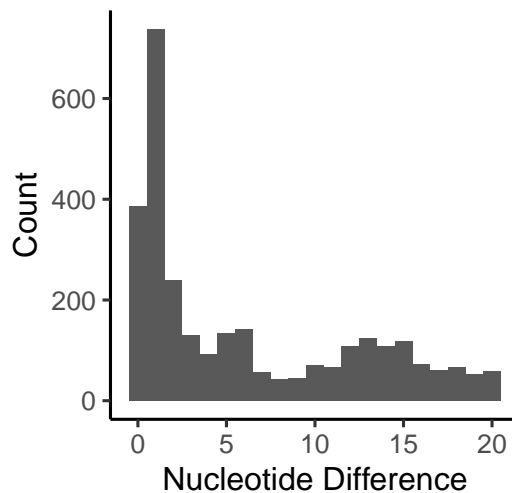
IGHV3-7*03

1333 sequences assigned
20 (1.5%) exact matches, in which:
19 unique CDR3
5 unique J



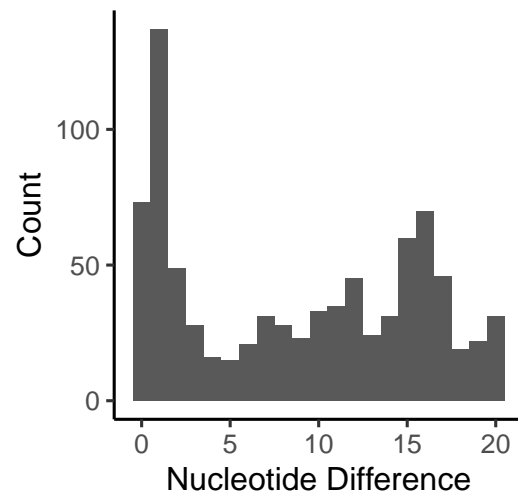
IGHV3-11*04

3847 sequences assigned
387 (10.1%) exact matches, in which:
241 unique CDR3
7 unique J



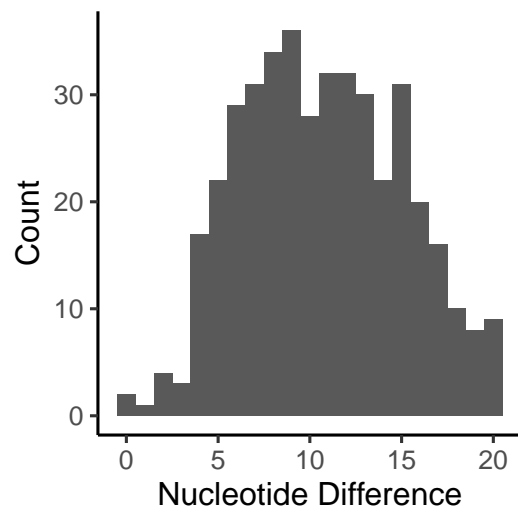
IGHV3-15*01_02

1139 sequences assigned
73 (6.4%) exact matches, in which:
52 unique CDR3
4 unique J



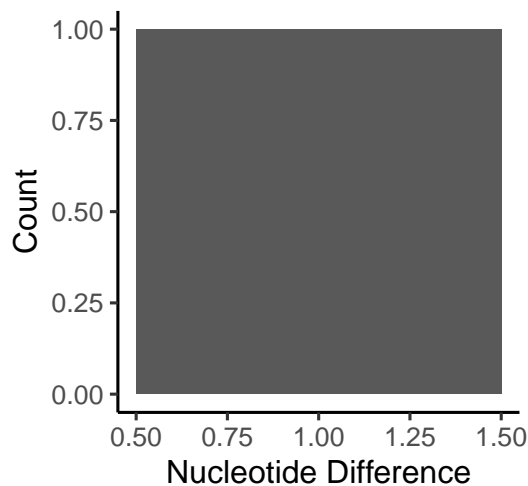
IGHV3-9*01

480 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
2 unique J



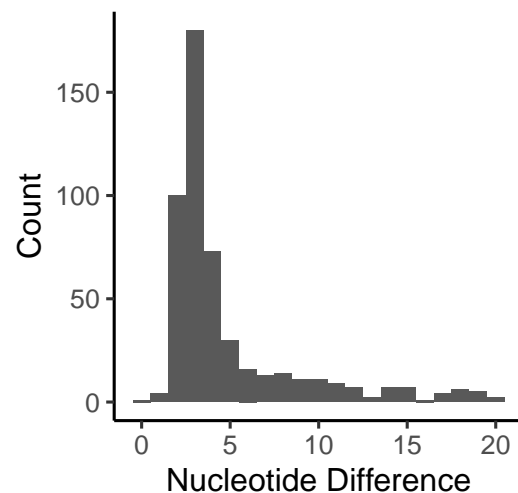
IGHV3-13*01

1 sequences assigned
No exact matches.



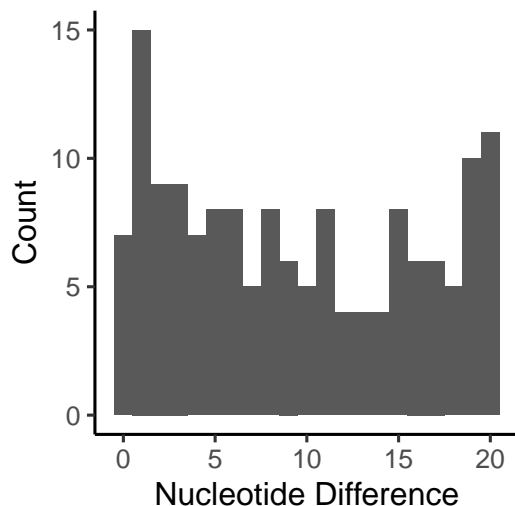
IGHV3-20*03_04

549 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



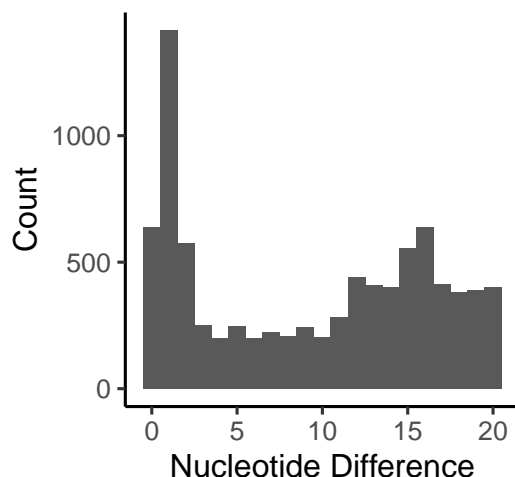
IGHV3-21*04

207 sequences assigned
7 (3.4%) exact matches, in which:
6 unique CDR3
3 unique J



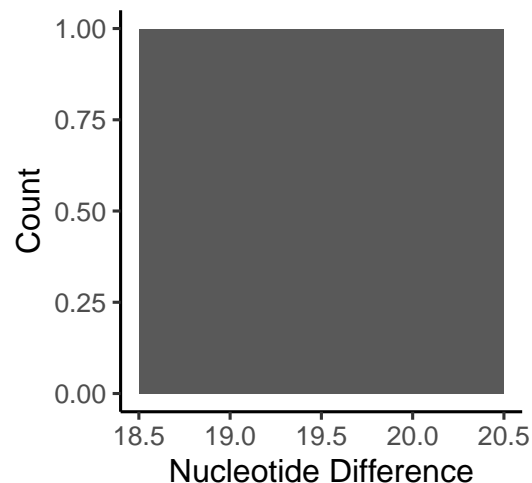
IGHV3-23*01_04

12041 sequences assigned
637 (5.3%) exact matches, in which:
353 unique CDR3
7 unique J



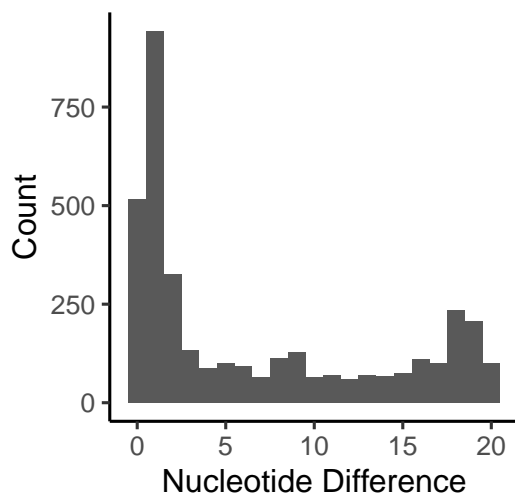
IGHV3-30-3*02

4 sequences assigned
No exact matches.



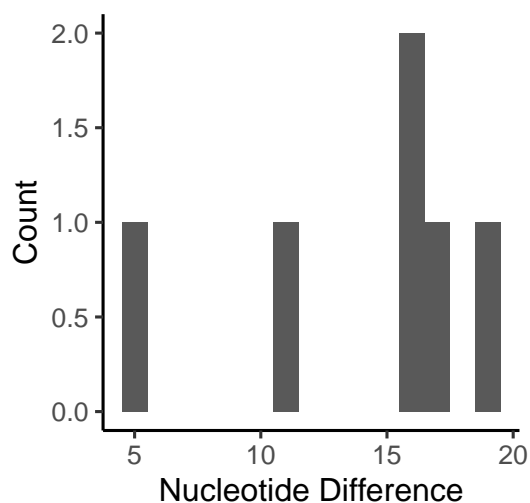
IGHV3-21*01_02

3951 sequences assigned
516 (13.1%) exact matches, in which:
311 unique CDR3
7 unique J



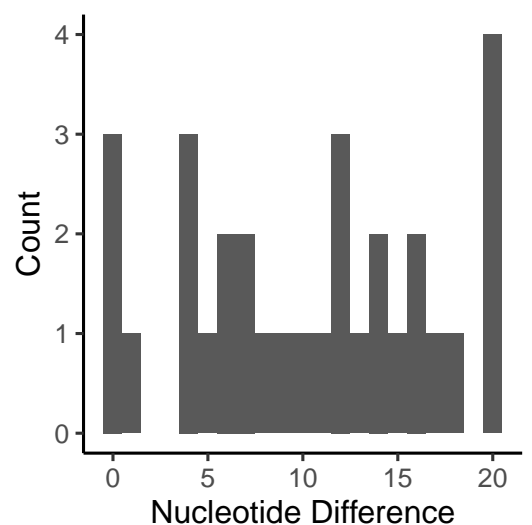
IGHV3-30-3*01

18 sequences assigned
No exact matches.



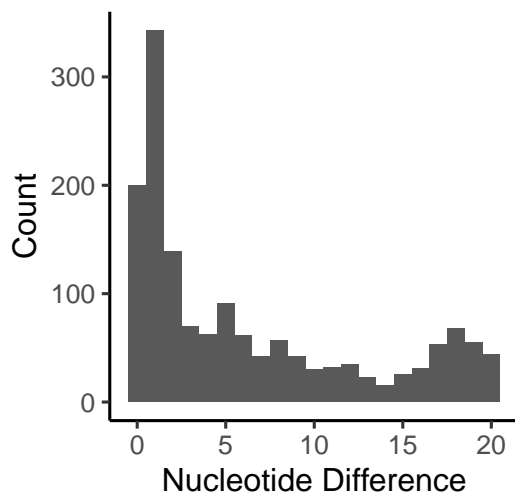
IGHV3-30*18

39 sequences assigned
3 (7.7%) exact matches, in which:
3 unique CDR3
2 unique J



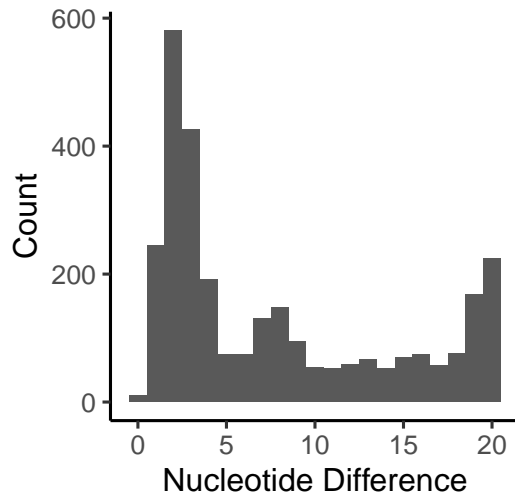
IGHV3-23*03

2031 sequences assigned
200 (9.8%) exact matches, in which:
122 unique CDR3
7 unique J



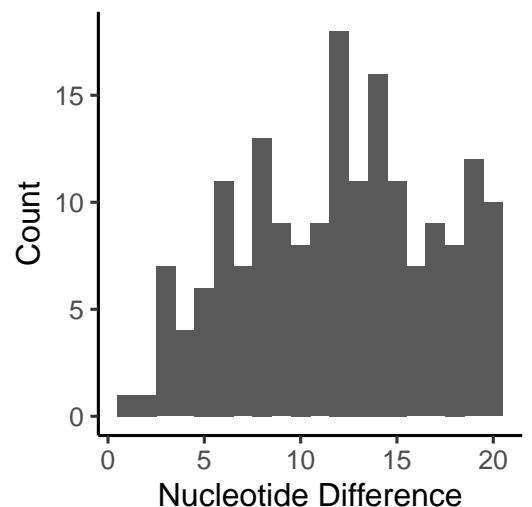
IGHV3-30*02

3583 sequences assigned
10 (0.3%) exact matches, in which:
10 unique CDR3
5 unique J



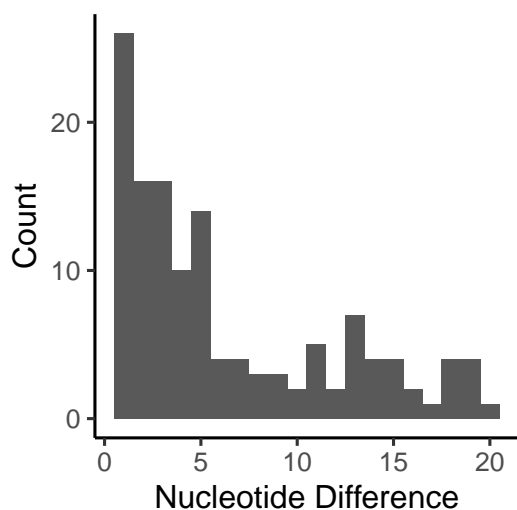
IGHV3-33*01

307 sequences assigned
No exact matches.



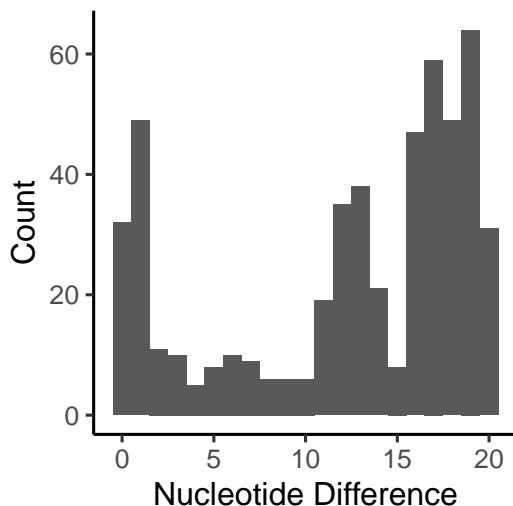
IGHV3-33*06

145 sequences assigned
No exact matches.



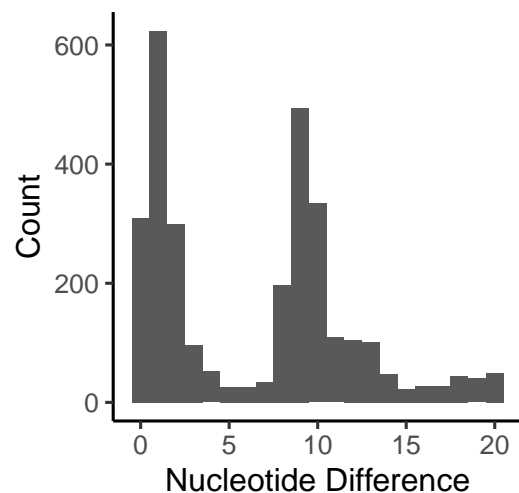
IGHV3-43*01

1034 sequences assigned
32 (3.1%) exact matches, in which:
18 unique CDR3
3 unique J



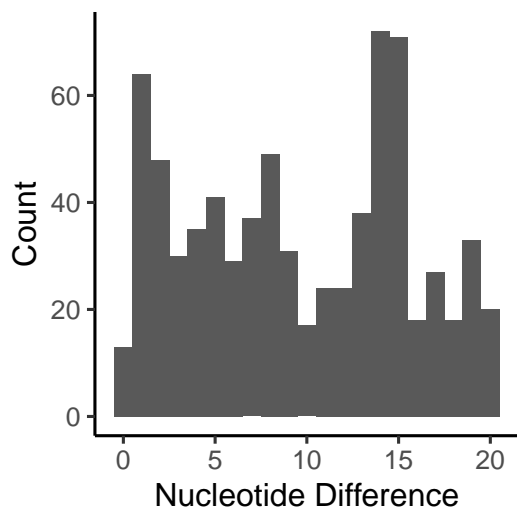
IGHV3-49*03_05

3621 sequences assigned
310 (8.6%) exact matches, in which:
214 unique CDR3
7 unique J



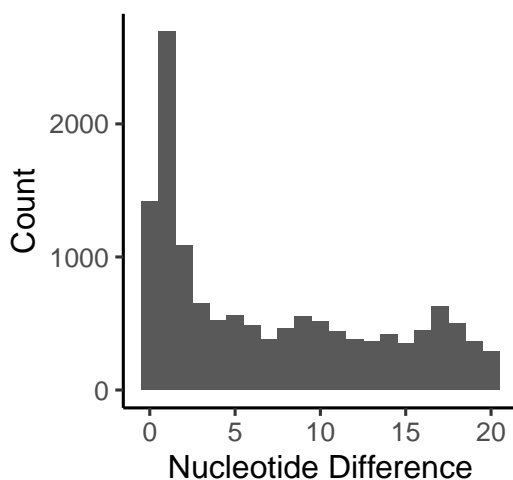
IGHV3-33*08

870 sequences assigned
13 (1.5%) exact matches, in which:
13 unique CDR3
6 unique J



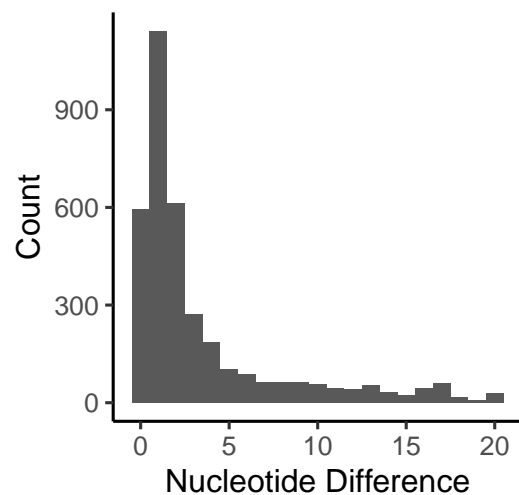
IGHV3-48*01

15538 sequences assigned
1415 (9.1%) exact matches, in which:
843 unique CDR3
7 unique J



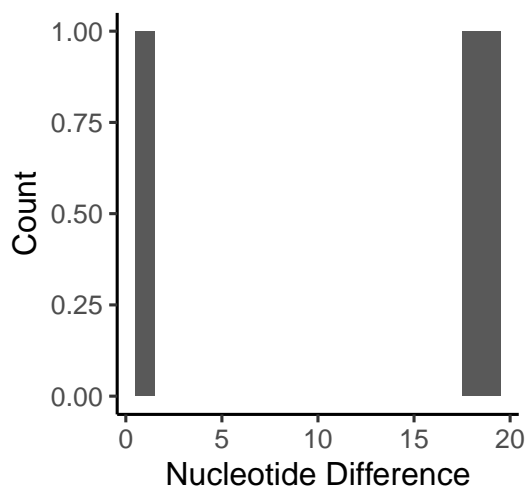
IGHV3-53*04

3671 sequences assigned
593 (16.2%) exact matches, in which:
377 unique CDR3
7 unique J



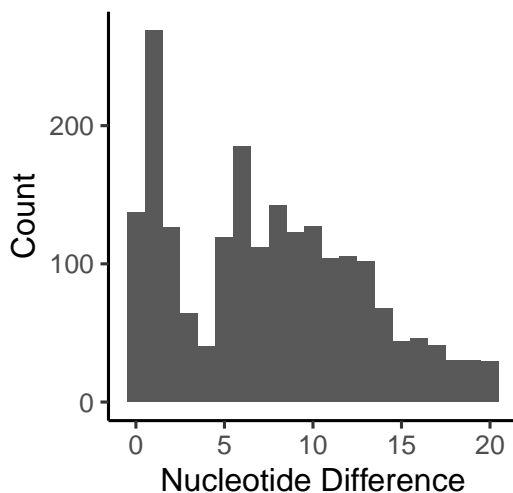
IGHV3-38-3*01

14 sequences assigned
No exact matches.



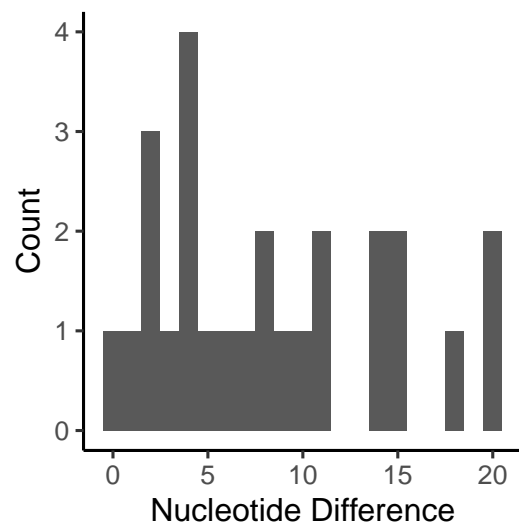
IGHV3-49*04

2224 sequences assigned
137 (6.2%) exact matches, in which:
91 unique CDR3
5 unique J



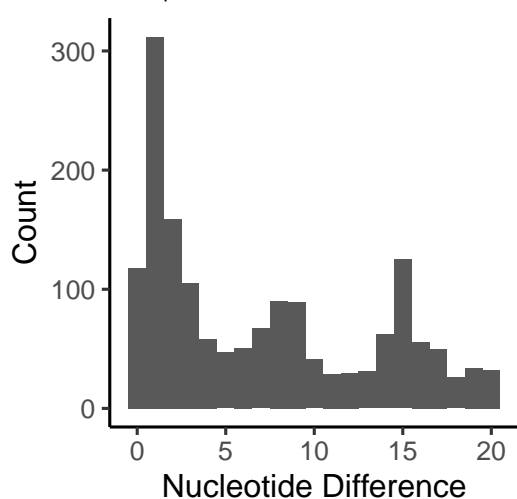
IGHV3-53*05

43 sequences assigned
1 (2.3%) exact matches, in which:
1 unique CDR3
0 unique J



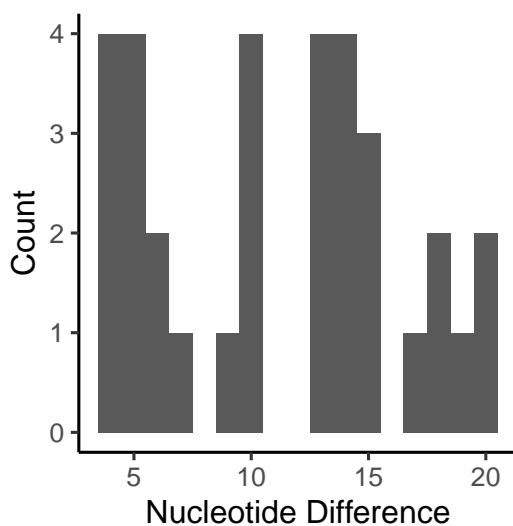
IGHV3-53*01_02

1800 sequences assigned
118 (6.6%) exact matches, in which:
68 unique CDR3
2 unique J



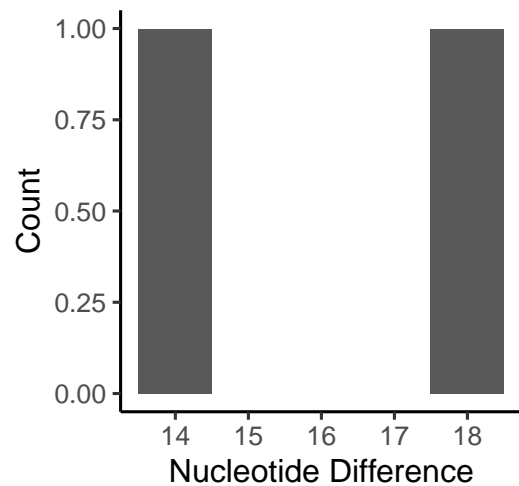
IGHV3-66*02

34 sequences assigned
No exact matches.



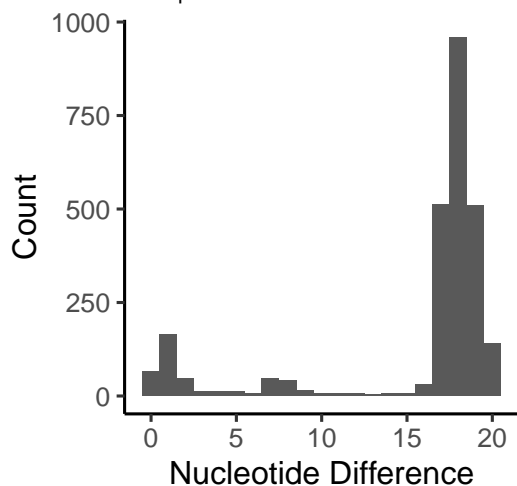
IGHV3-69-1*02

37 sequences assigned
No exact matches.



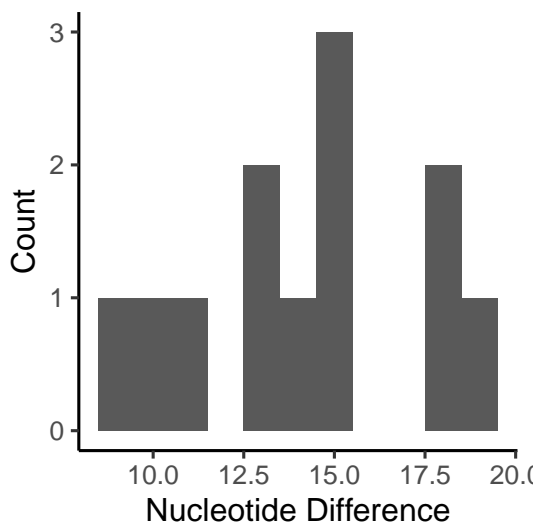
IGHV3-64*01

2917 sequences assigned
66 (2.3%) exact matches, in which:
50 unique CDR3
4 unique J



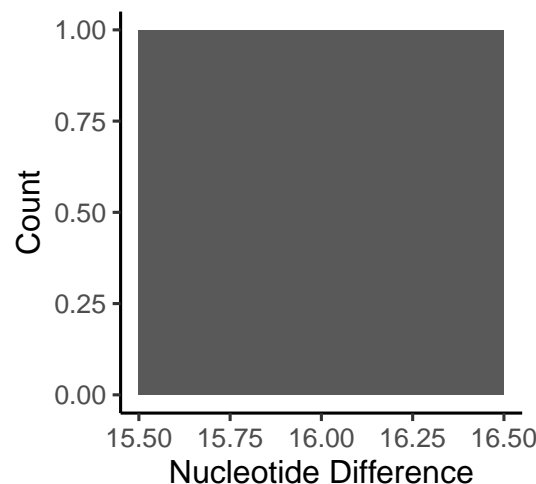
IGHV3-66*03

13 sequences assigned
No exact matches.



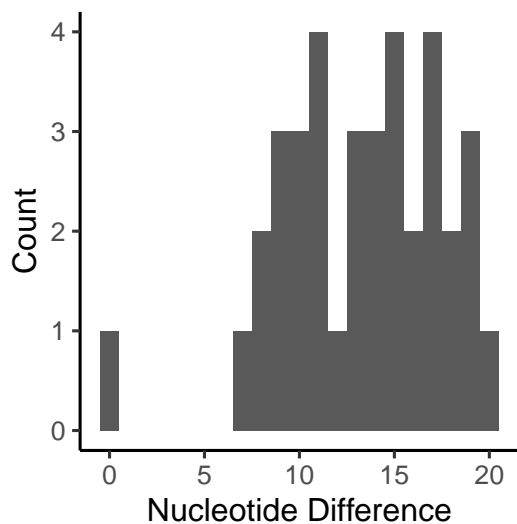
IGHV3-71*01_04

5 sequences assigned
No exact matches.



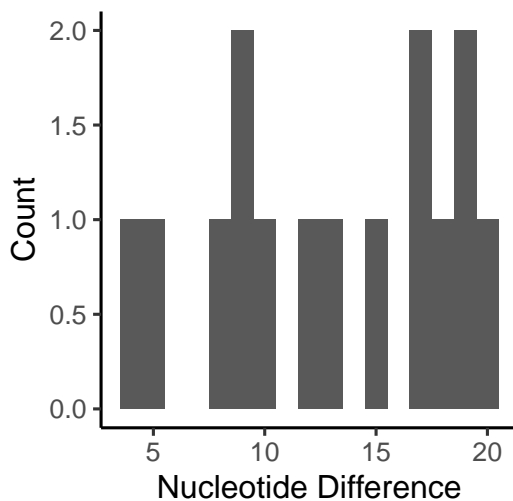
IGHV3-66*01

47 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



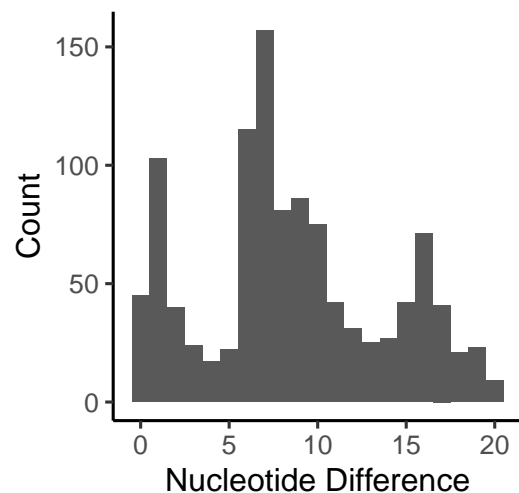
IGHV3-69-1*01

25 sequences assigned
No exact matches.



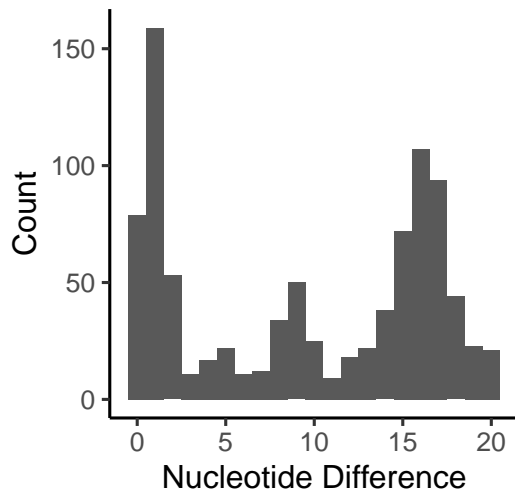
IGHV3-72*01

1278 sequences assigned
45 (3.5%) exact matches, in which:
30 unique CDR3
5 unique J



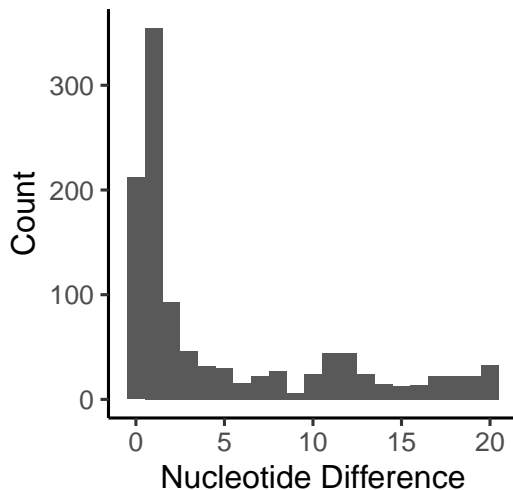
IGHV3-73*01_02

1108 sequences assigned
79 (7.1%) exact matches, in which:
52 unique CDR3
5 unique J



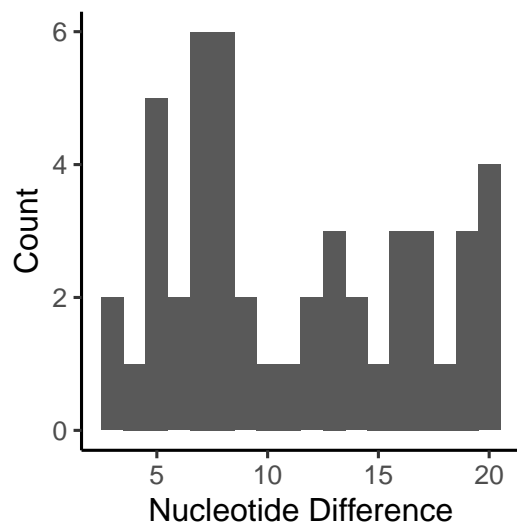
IGHV3-43D*04

1138 sequences assigned
212 (18.6%) exact matches, in which:
117 unique CDR3
3 unique J



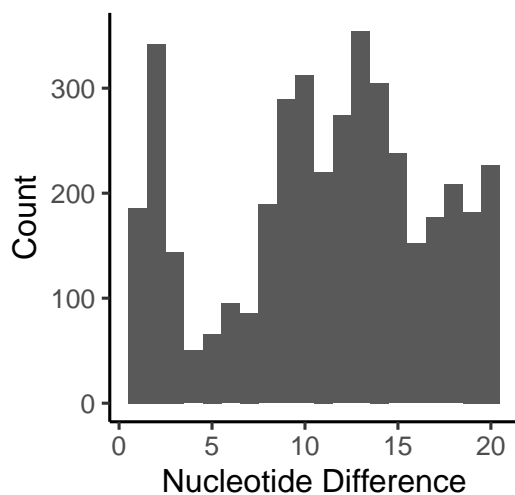
IGHV3-NL1*01

81 sequences assigned
No exact matches.



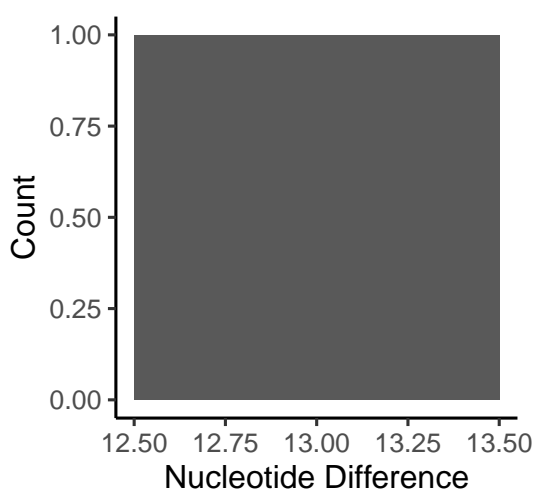
IGHV3-74*03

4954 sequences assigned
No exact matches.



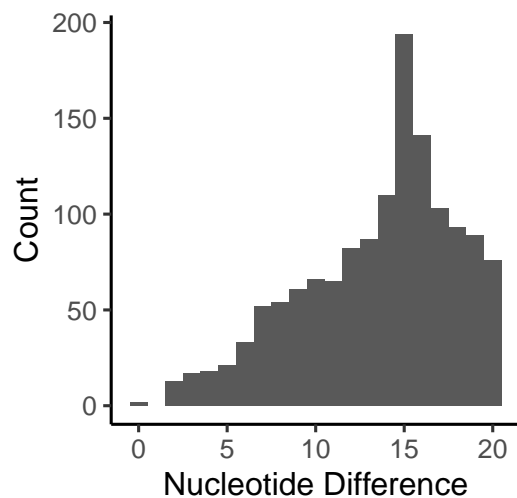
IGHV3-64D*06

1 sequences assigned
No exact matches.



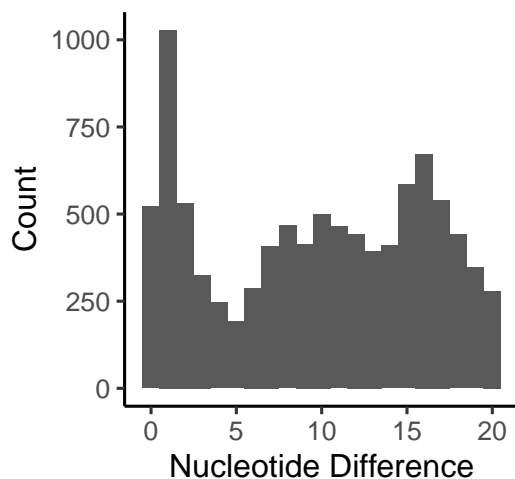
IGHV4-4*07

1952 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



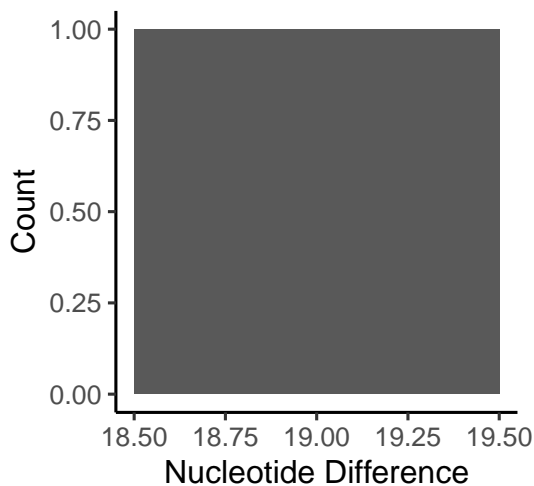
IGHV3-74*01_02

10633 sequences assigned
522 (4.9%) exact matches, in which:
327 unique CDR3
6 unique J



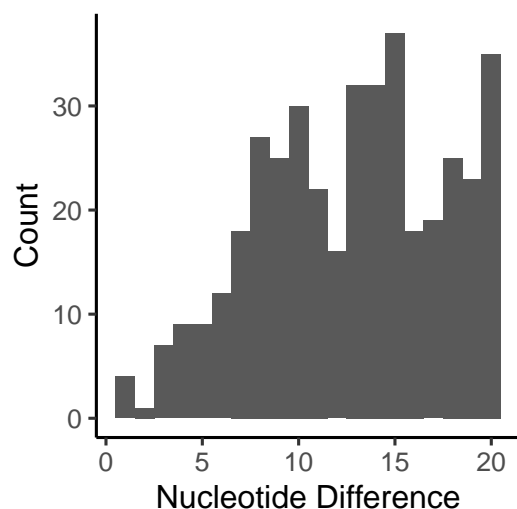
IGHV3-64D*09

4 sequences assigned
No exact matches.



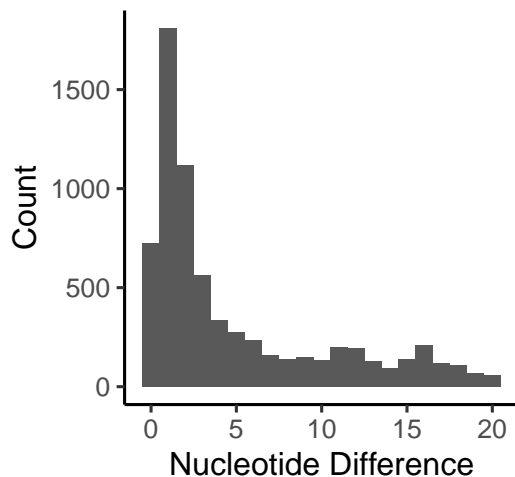
IGHV4-4*08

532 sequences assigned
No exact matches.



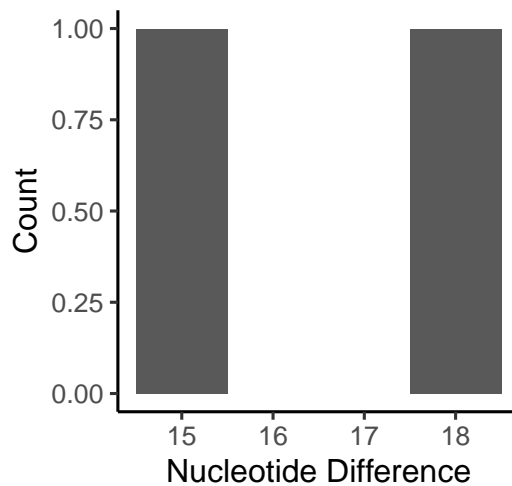
IGHV4-4*02_03

7520 sequences assigned
727 (9.7%) exact matches, in which:
439 unique CDR3
7 unique J



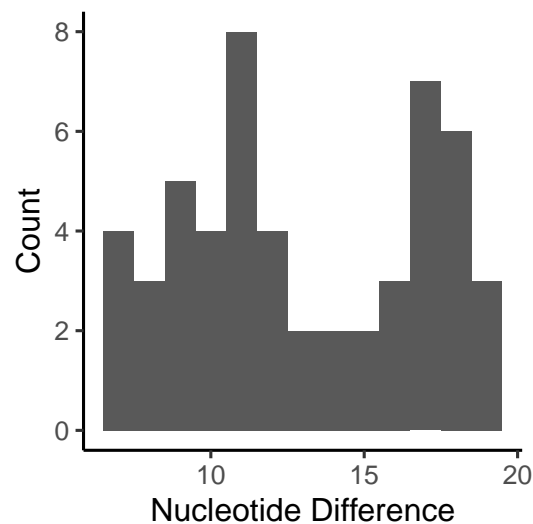
IGHV4-30-4*01

3 sequences assigned
No exact matches.



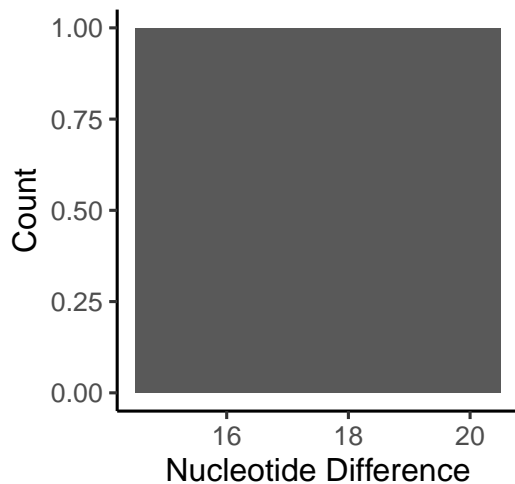
IGHV4-30-4*07

61 sequences assigned
No exact matches.



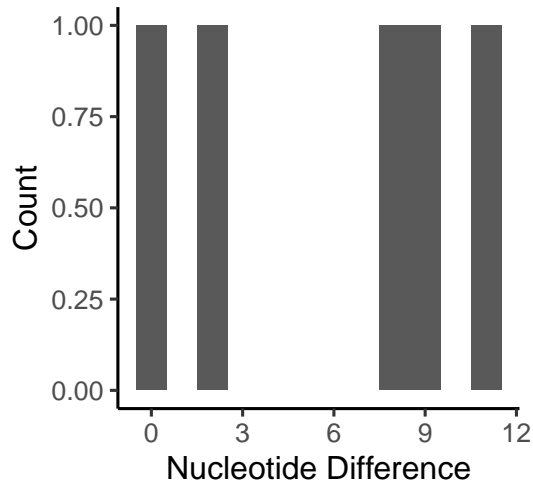
IGHV4-28*03

35 sequences assigned
No exact matches.



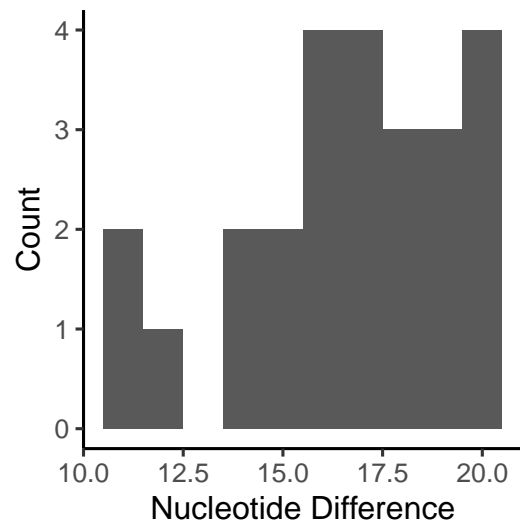
IGHV4-30-2*01

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



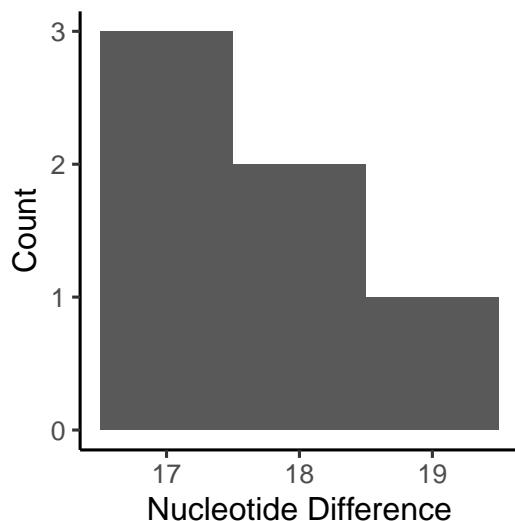
IGHV4-30-4*08

39 sequences assigned
No exact matches.



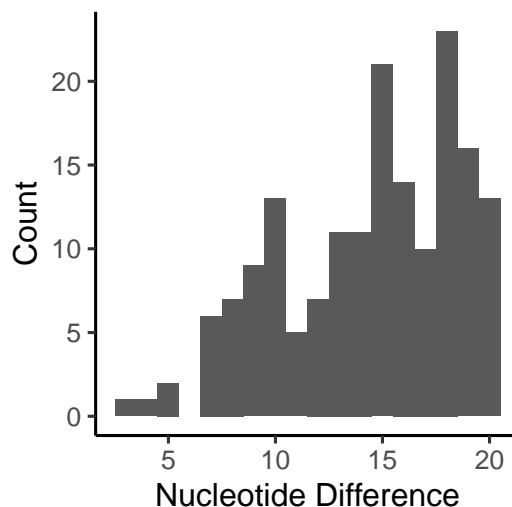
IGHV4-28*06

7 sequences assigned
No exact matches.



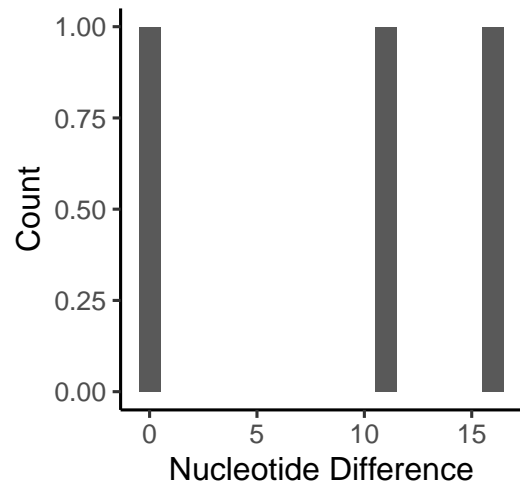
IGHV4-30-2*03

220 sequences assigned
No exact matches.



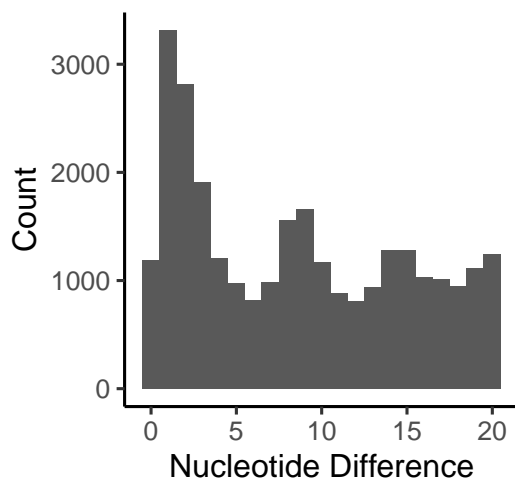
IGHV4-31*02

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



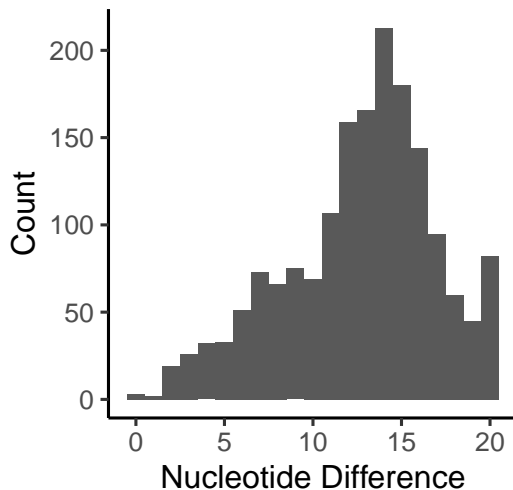
IGHV4-34*01_02

34288 sequences assigned
1191 (3.5%) exact matches, in which:
671 unique CDR3
7 unique J



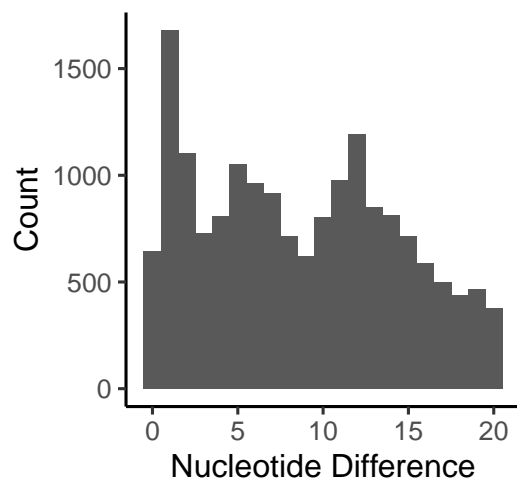
IGHV4-39*02

2189 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
3 unique J



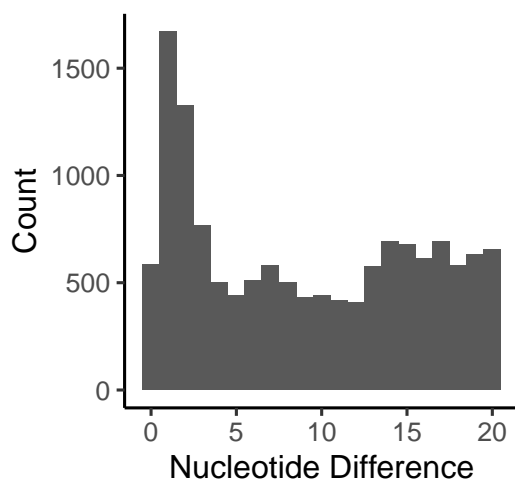
IGHV4-59*08

19117 sequences assigned
646 (3.4%) exact matches, in which:
412 unique CDR3
7 unique J



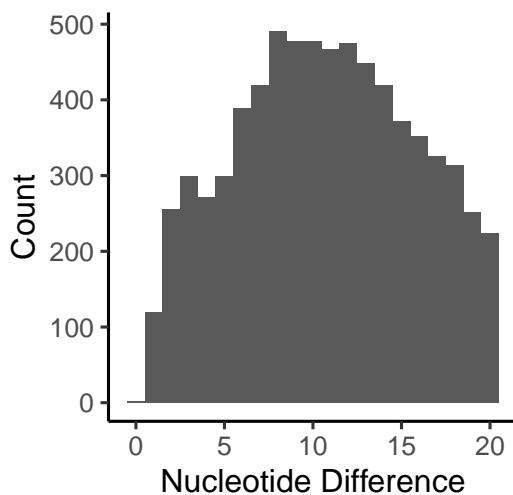
IGHV4-38-2*01

18600 sequences assigned
586 (3.2%) exact matches, in which:
354 unique CDR3
7 unique J



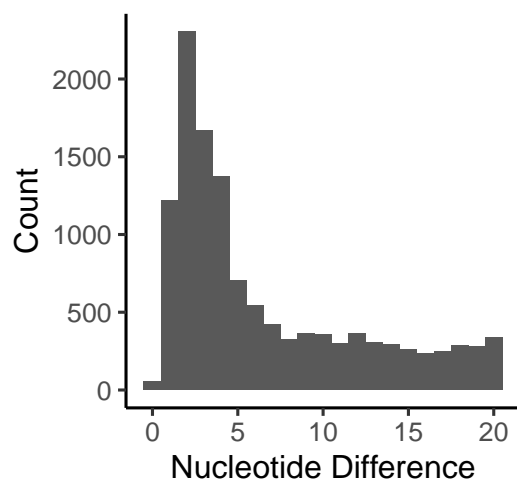
IGHV4-39*07

8304 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
1 unique J



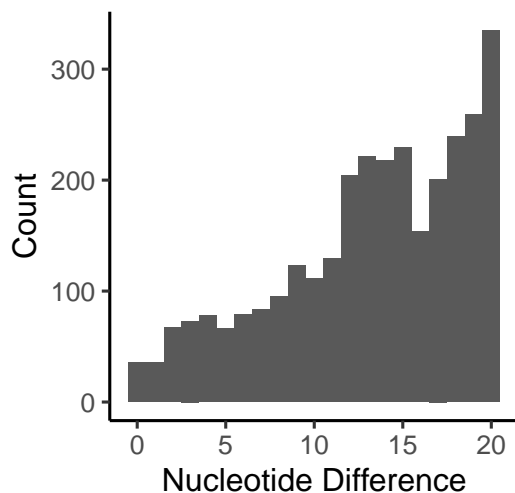
IGHV4-59*12

13745 sequences assigned
52 (0.4%) exact matches, in which:
40 unique CDR3
6 unique J



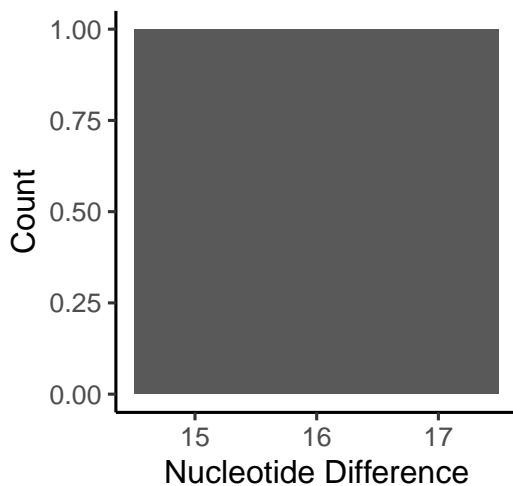
IGHV4-38-2*02

4952 sequences assigned
36 (0.7%) exact matches, in which:
28 unique CDR3
6 unique J



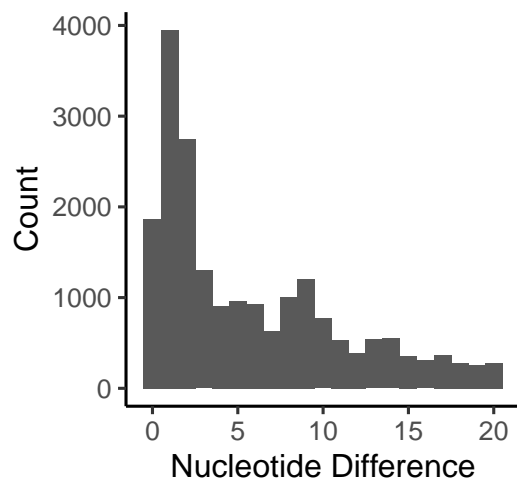
IGHV4-55*09

6 sequences assigned
No exact matches.



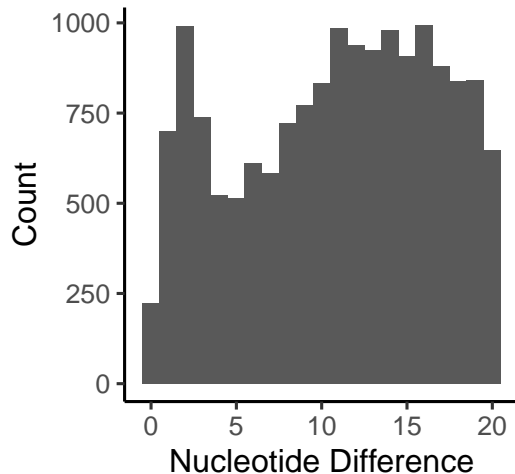
IGHV4-59*01_07

21022 sequences assigned
1864 (8.9%) exact matches, in which:
956 unique CDR3
7 unique J



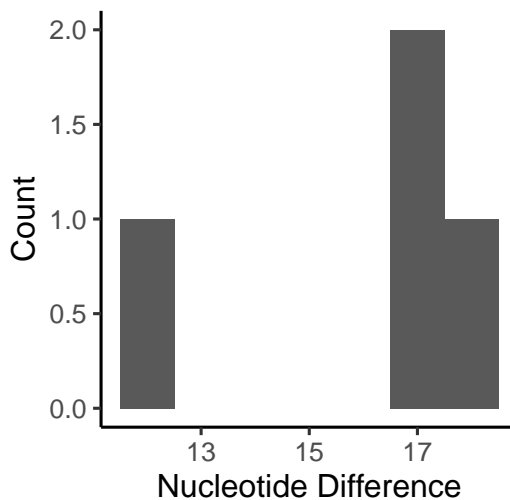
IGHV4-61*02

17581 sequences assigned
223 (1.3%) exact matches, in which:
142 unique CDR3
7 unique J



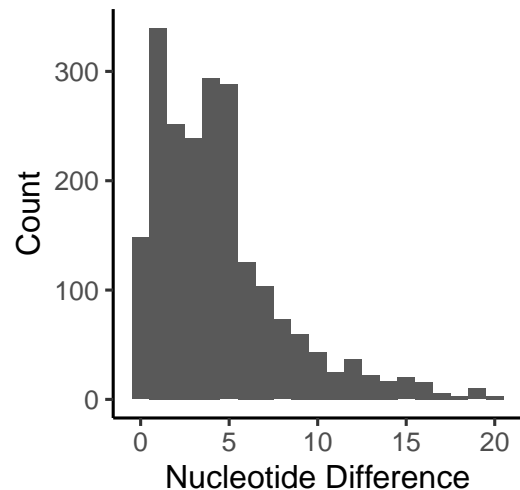
IGHV4/OR15-8*02

25 sequences assigned
No exact matches.



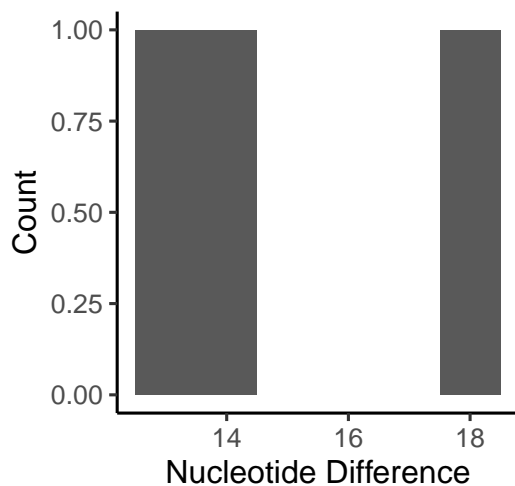
IGHV6-1*01_02

3079 sequences assigned
148 (4.8%) exact matches, in which:
97 unique CDR3
7 unique J



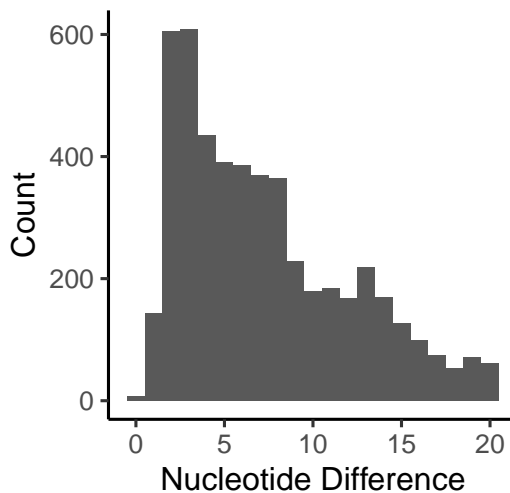
IGHV1/OR15-3*02

4 sequences assigned
No exact matches.



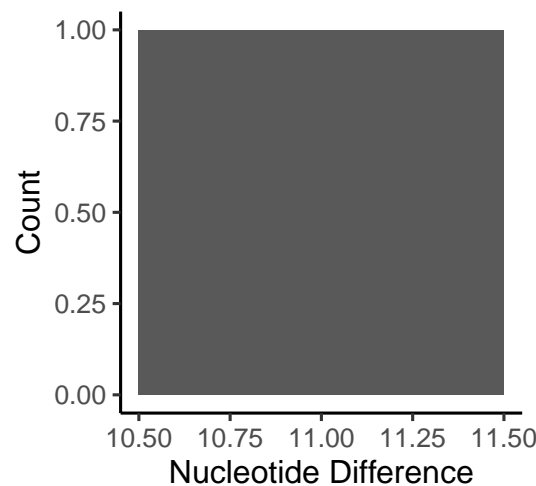
IGHV5-51*07

5336 sequences assigned
8 (0.1%) exact matches, in which:
7 unique CDR3
4 unique J



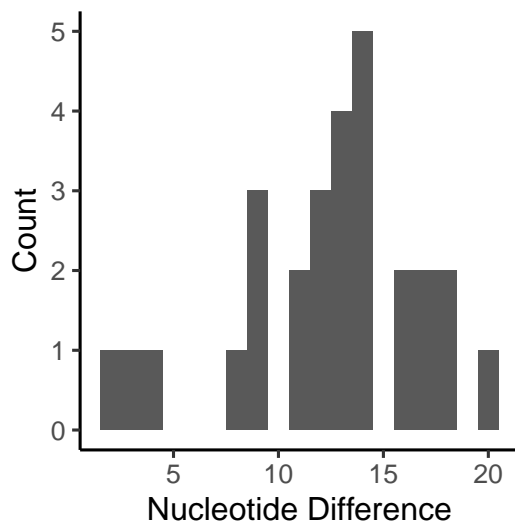
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



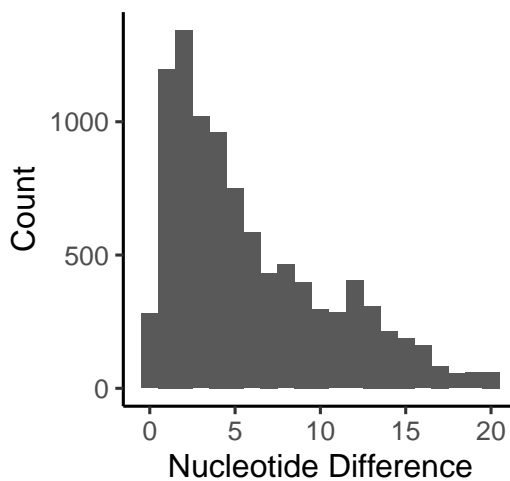
IGHV4/OR15-8*01

49 sequences assigned
No exact matches.



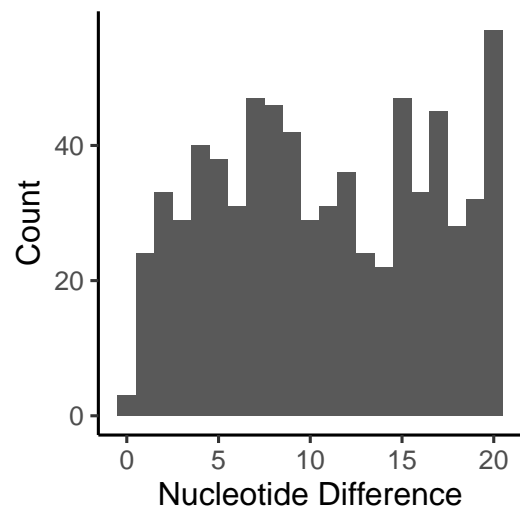
IGHV5-51*01_03

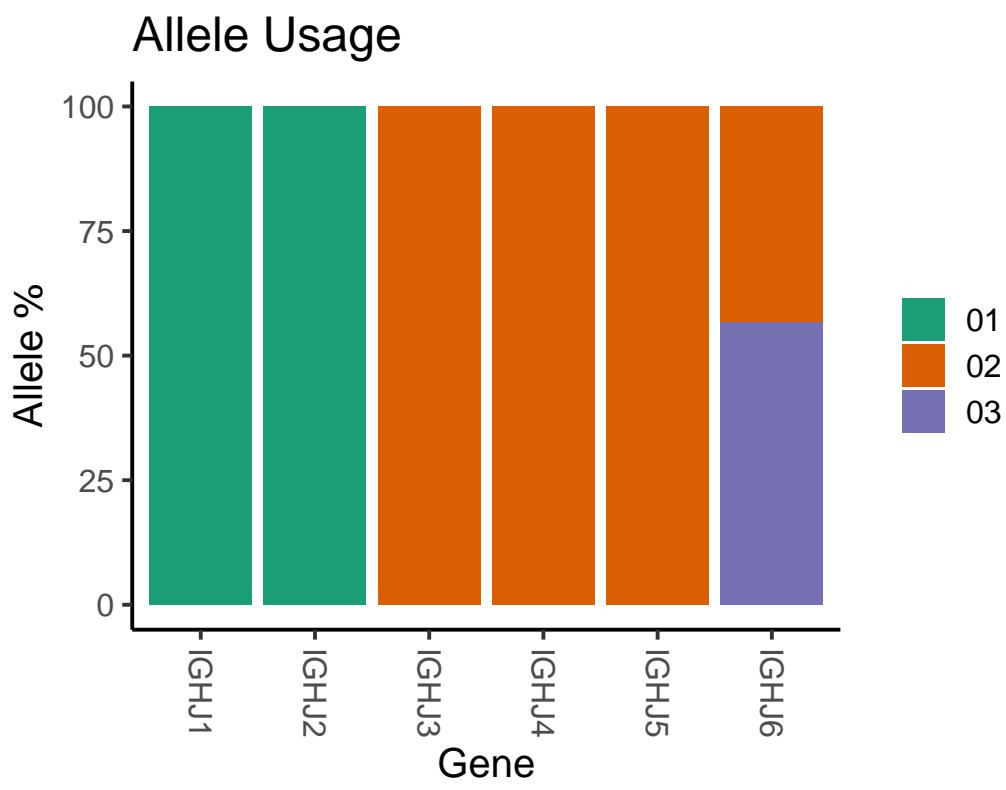
9914 sequences assigned
281 (2.8%) exact matches, in which:
162 unique CDR3
7 unique J



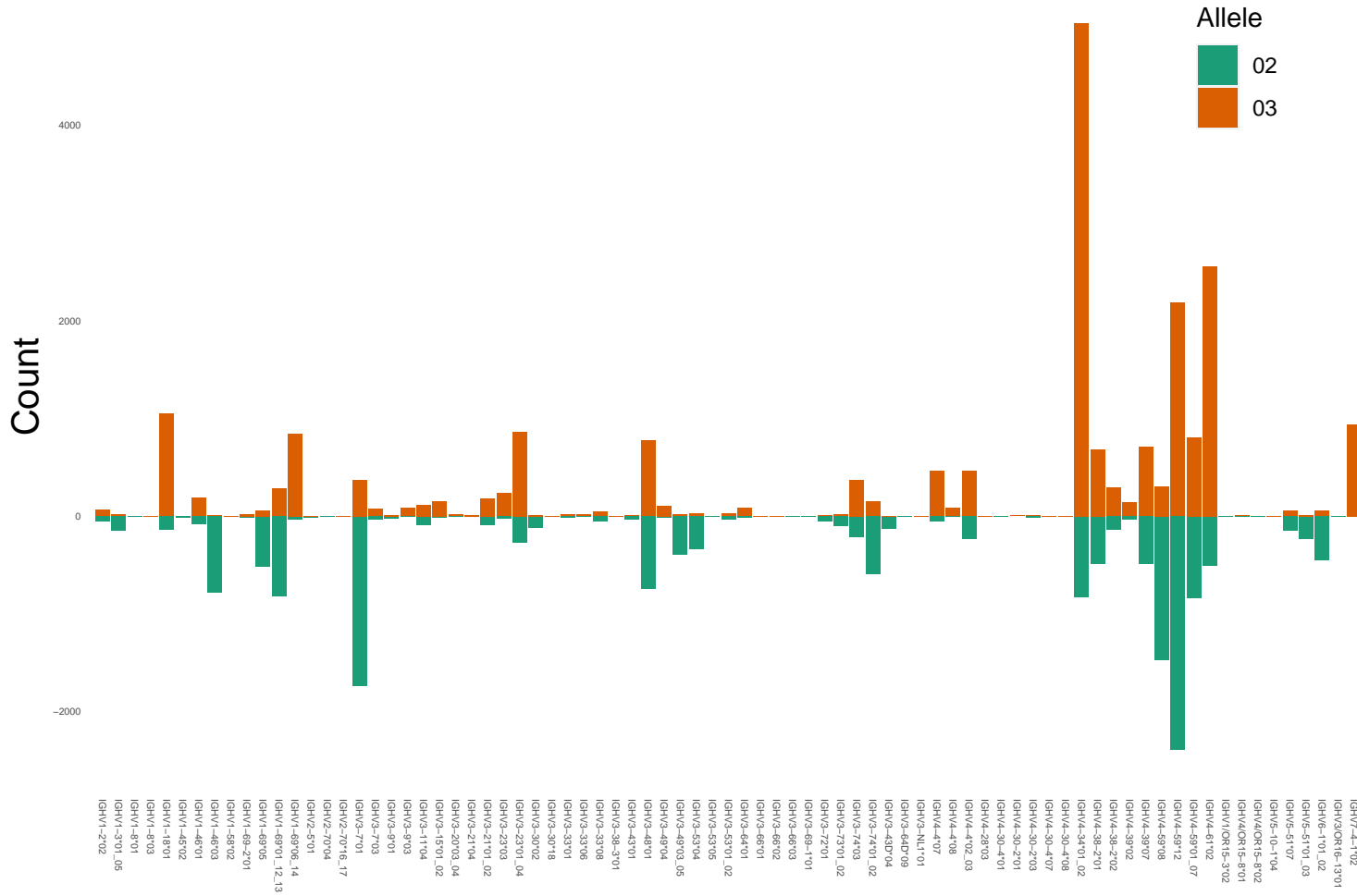
IGHV7-4-1*02

1841 sequences assigned
3 (0.2%) exact matches, in which:
3 unique CDR3
3 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.