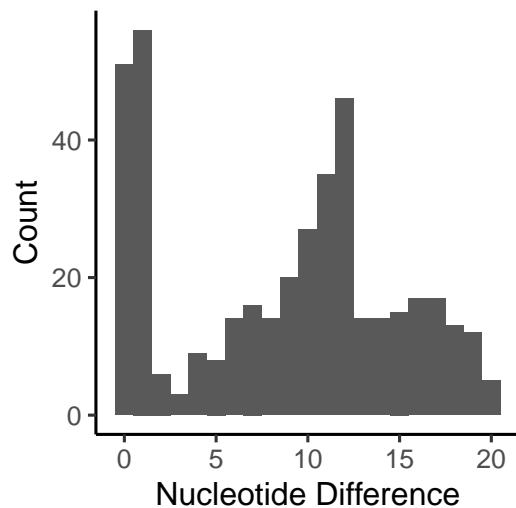


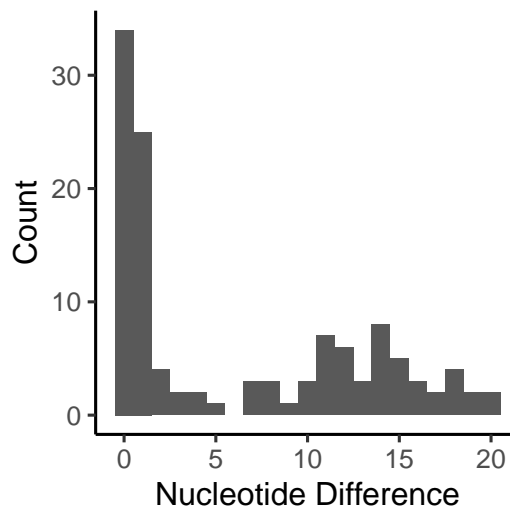
IGHV1-2*02

485 sequences assigned
51 (10.5%) exact matches, in which:
46 unique CDR3
5 unique J



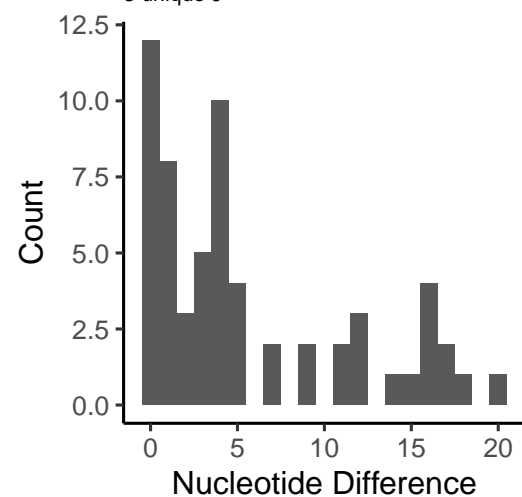
IGHV1-8*01

140 sequences assigned
34 (24.3%) exact matches, in which:
30 unique CDR3
5 unique J



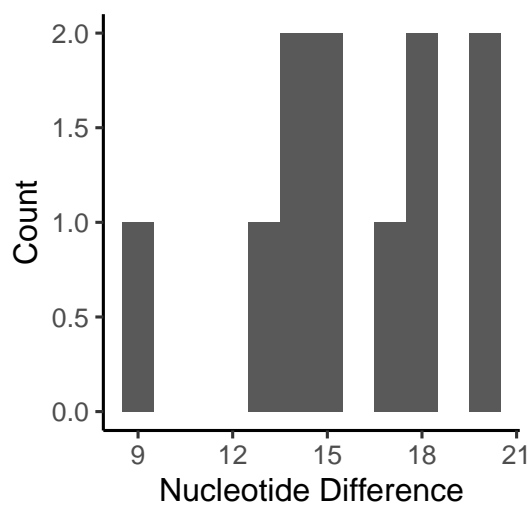
IGHV1-24*01

74 sequences assigned
12 (16.2%) exact matches, in which:
10 unique CDR3
3 unique J



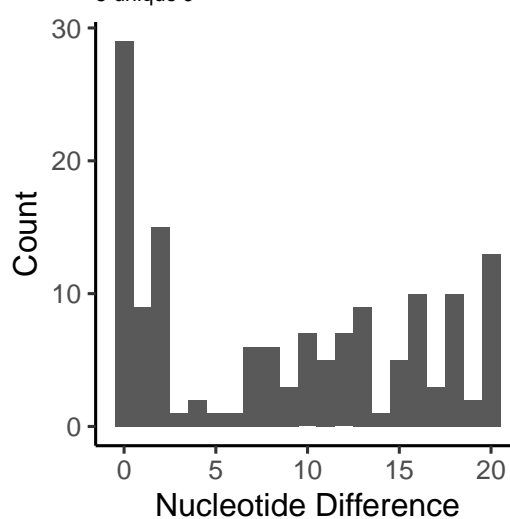
IGHV1-3*04

16 sequences assigned
No exact matches.



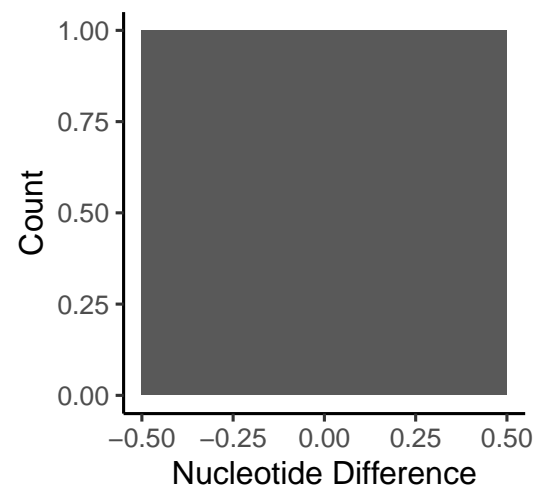
IGHV1-18*01

162 sequences assigned
29 (17.9%) exact matches, in which:
29 unique CDR3
5 unique J



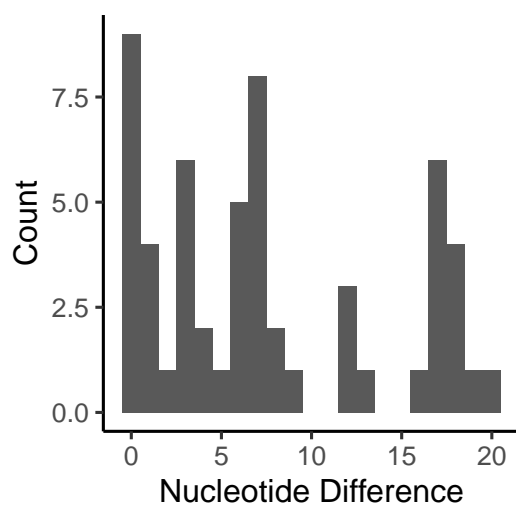
IGHV1-45*02

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



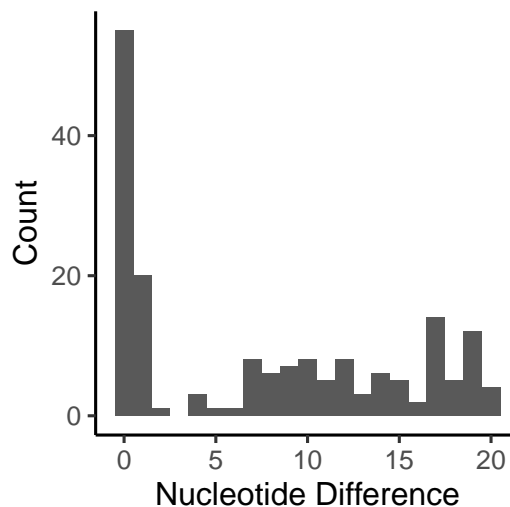
IGHV1-3*01_05

119 sequences assigned
9 (7.6%) exact matches, in which:
9 unique CDR3
5 unique J



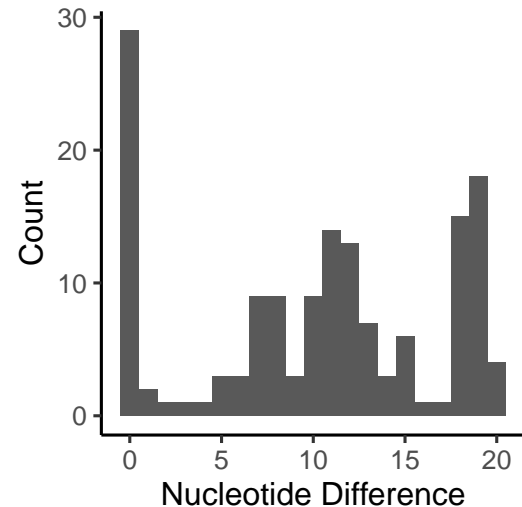
IGHV1-18*04

225 sequences assigned
55 (24.4%) exact matches, in which:
51 unique CDR3
5 unique J



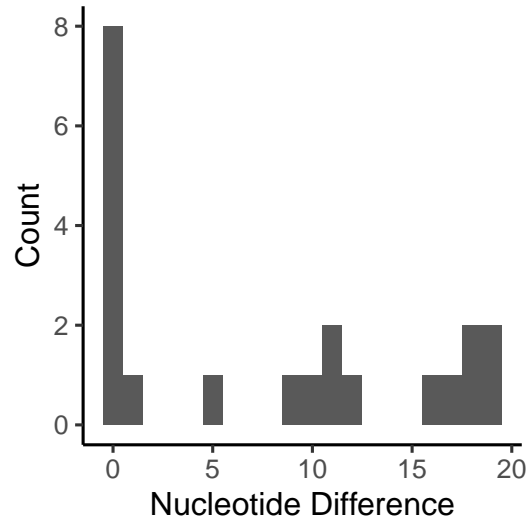
IGHV1-46*01

187 sequences assigned
29 (15.5%) exact matches, in which:
27 unique CDR3
4 unique J



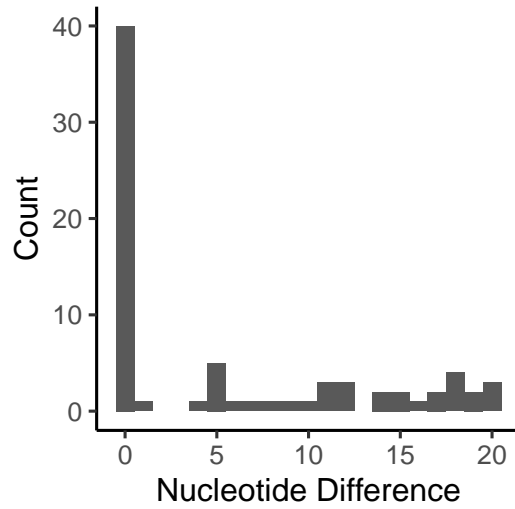
IGHV1-58*01_03

23 sequences assigned
8 (34.8%) exact matches, in which:
8 unique CDR3
4 unique J



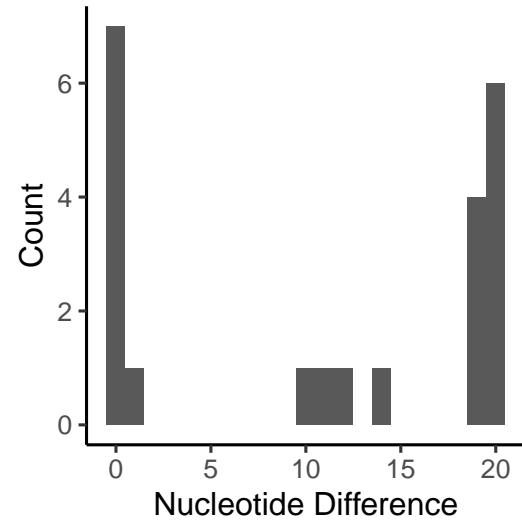
IGHV1-69*06_14

97 sequences assigned
40 (41.2%) exact matches, in which:
39 unique CDR3
5 unique J



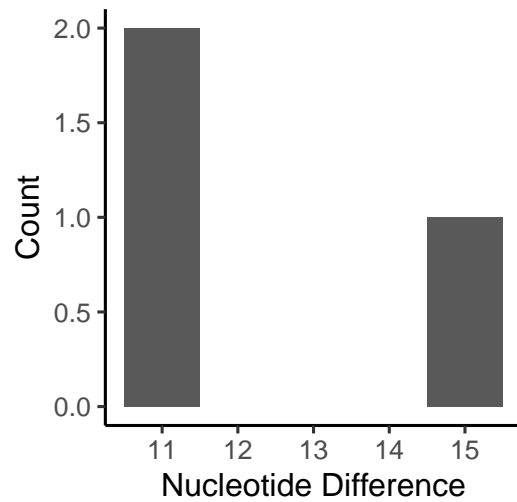
IGHV2-26*01

24 sequences assigned
7 (29.2%) exact matches, in which:
7 unique CDR3
4 unique J



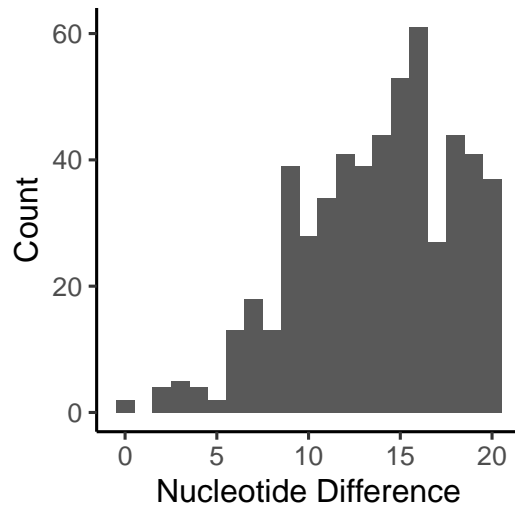
IGHV1-69-2*01

3 sequences assigned
No exact matches.



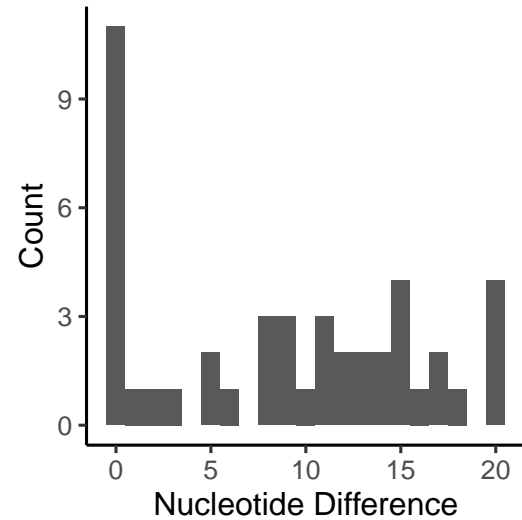
IGHV2-5*01

600 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



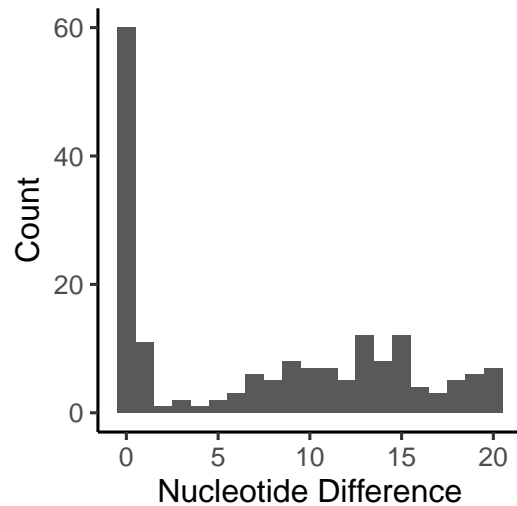
IGHV2-70*11_15

58 sequences assigned
11 (19%) exact matches, in which:
10 unique CDR3
3 unique J



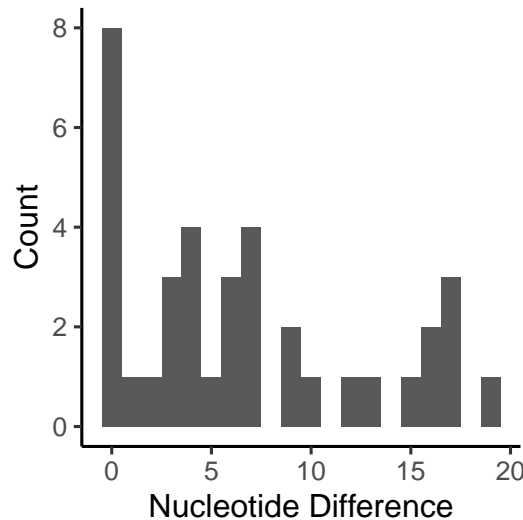
IGHV1-69*01_12_13

212 sequences assigned
60 (28.3%) exact matches, in which:
59 unique CDR3
5 unique J



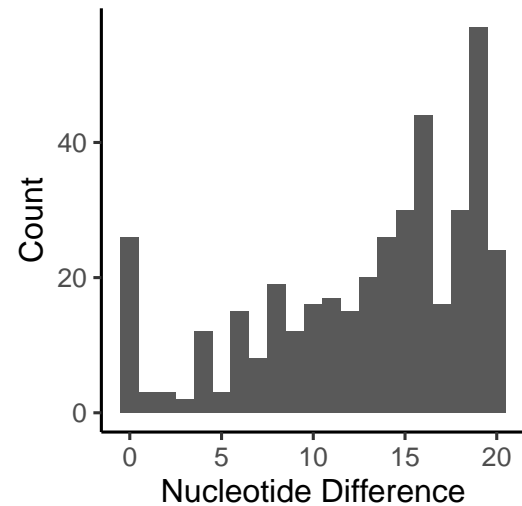
IGHV2-5*02

39 sequences assigned
8 (20.5%) exact matches, in which:
8 unique CDR3
3 unique J



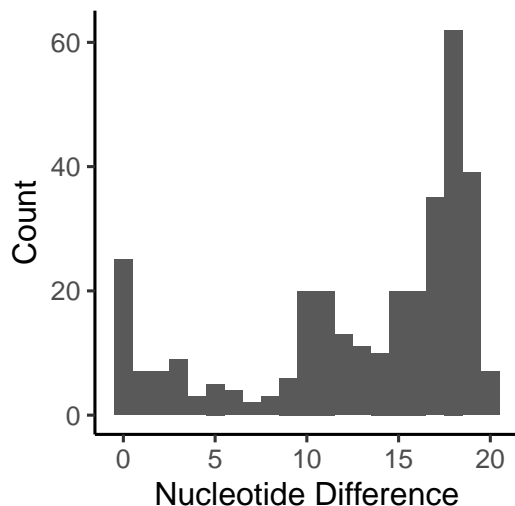
IGHV3-7*01

487 sequences assigned
26 (5.3%) exact matches, in which:
26 unique CDR3
5 unique J



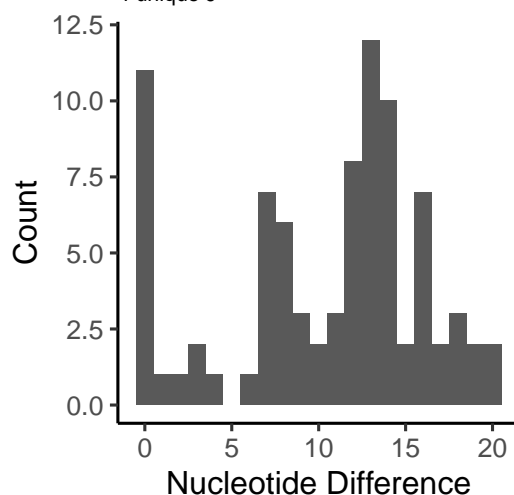
IGHV3-7*03

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



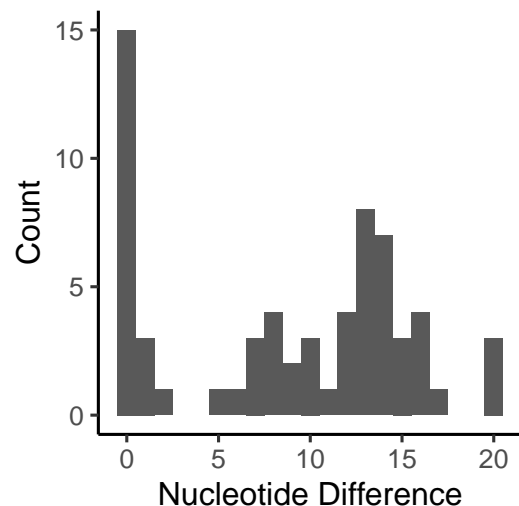
IGHV3-11*06

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



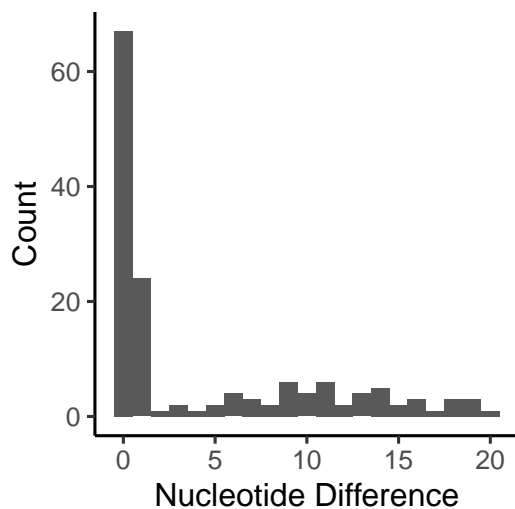
IGHV3-15*01_02

71 sequences assigned
15 (21.1%) exact matches, in which:
14 unique CDR3
3 unique J



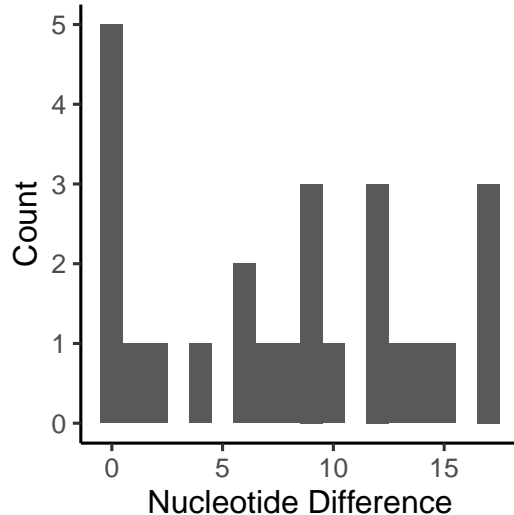
IGHV3-9*01

159 sequences assigned
67 (42.1%) exact matches, in which:
62 unique CDR3
6 unique J



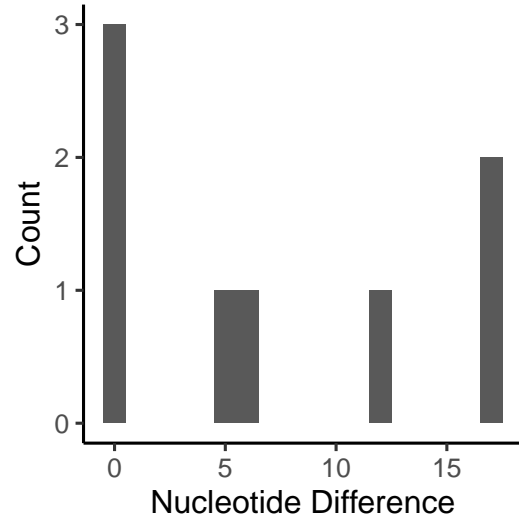
IGHV3-13*01

26 sequences assigned
5 (19.2%) exact matches, in which:
5 unique CDR3
3 unique J



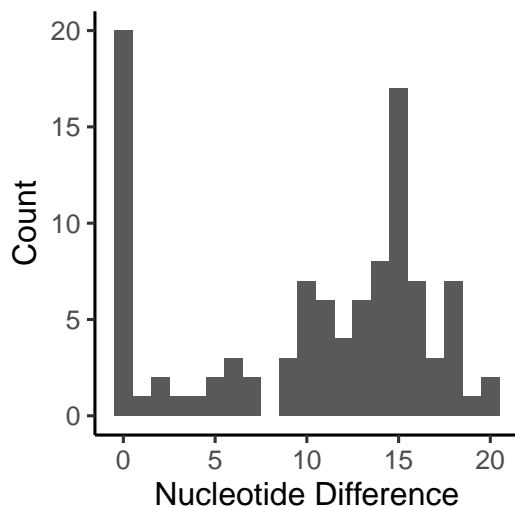
IGHV3-20*03_04

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



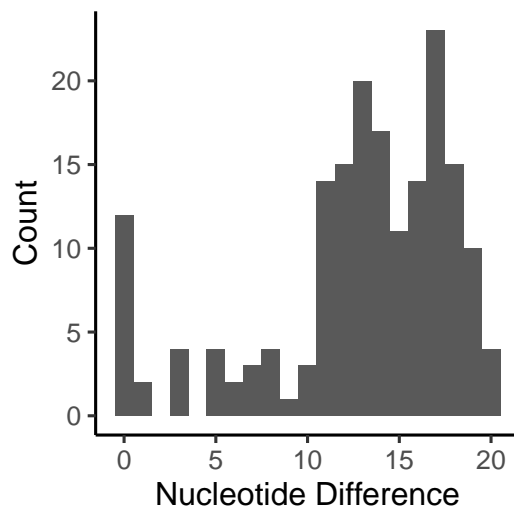
IGHV3-11*01

121 sequences assigned
20 (16.5%) exact matches, in which:
19 unique CDR3
4 unique J



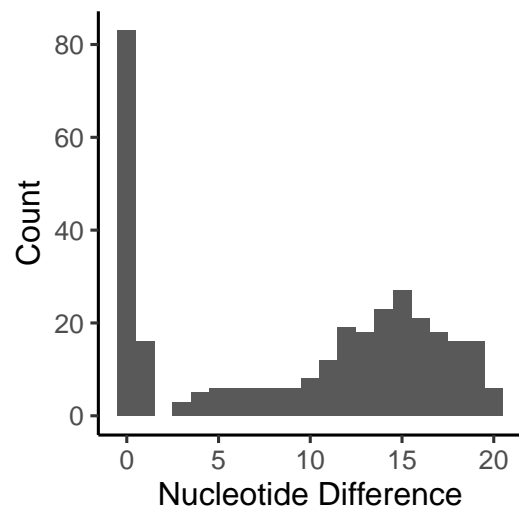
IGHV3-15*07

194 sequences assigned
12 (6.2%) exact matches, in which:
12 unique CDR3
4 unique J



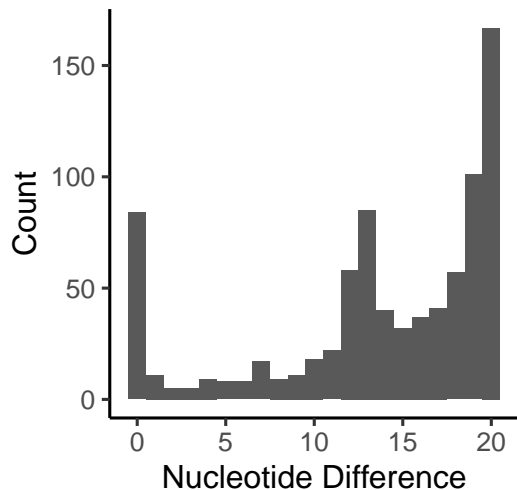
IGHV3-21*01_02

387 sequences assigned
83 (21.4%) exact matches, in which:
81 unique CDR3
6 unique J



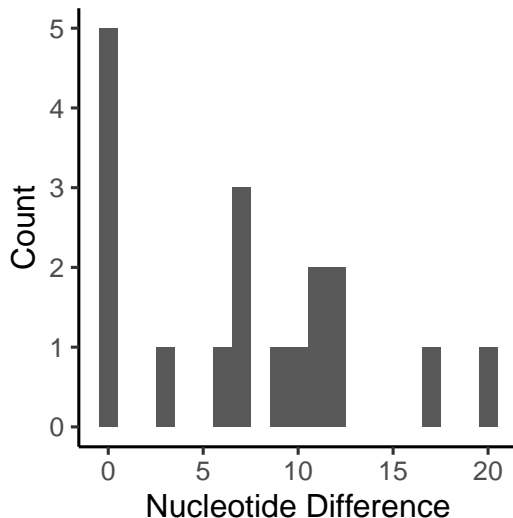
IGHV3-23*01_04

1222 sequences assigned
84 (6.9%) exact matches, in which:
82 unique CDR3
6 unique J



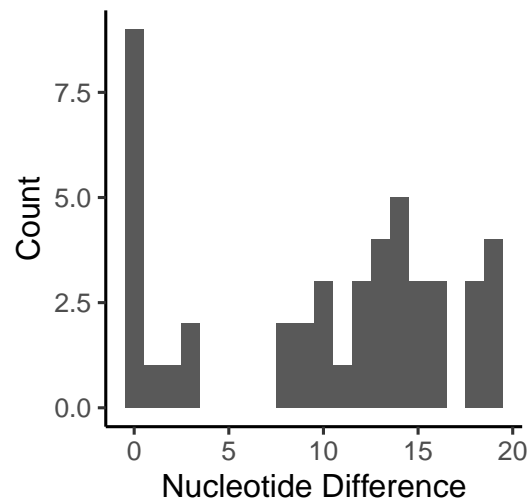
IGHV3-43*01

22 sequences assigned
5 (22.7%) exact matches, in which:
5 unique CDR3
2 unique J



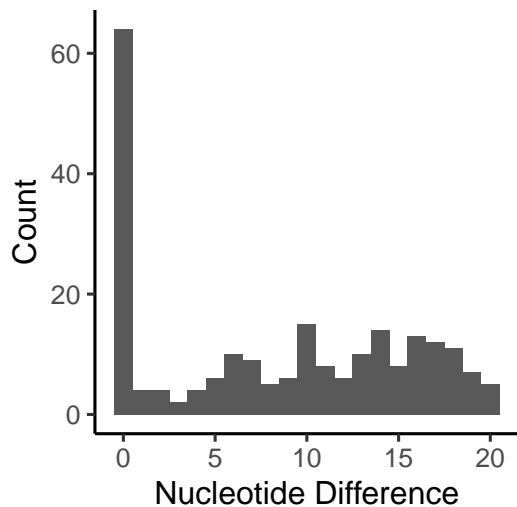
IGHV3-49*03_05

55 sequences assigned
9 (16.4%) exact matches, in which:
8 unique CDR3
3 unique J



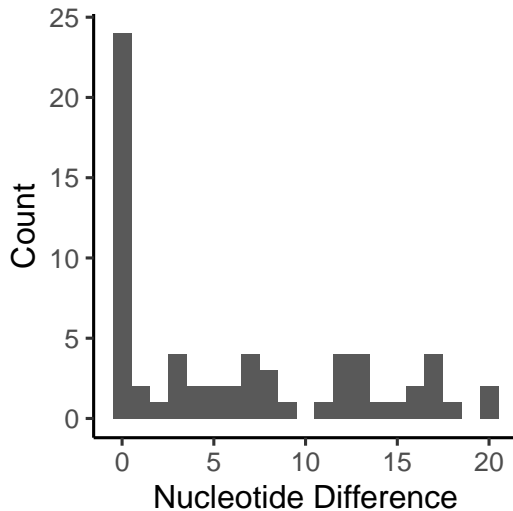
IGHV3-30-3*01

273 sequences assigned
64 (23.4%) exact matches, in which:
63 unique CDR3
5 unique J



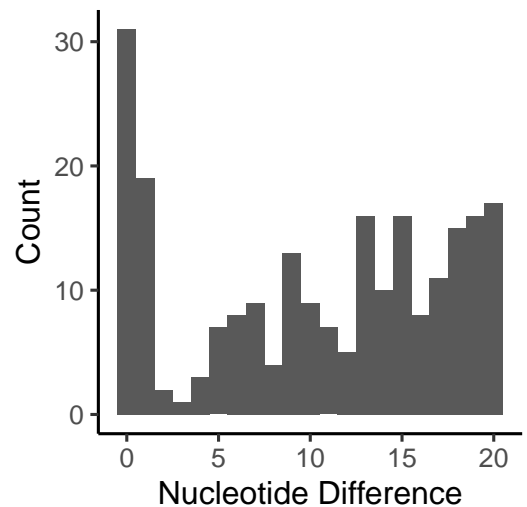
IGHV3-48*02

98 sequences assigned
24 (24.5%) exact matches, in which:
20 unique CDR3
5 unique J



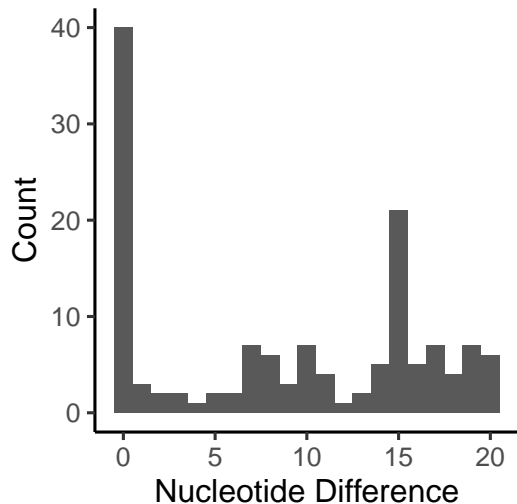
IGHV3-53*01_02

624 sequences assigned
31 (5%) exact matches, in which:
28 unique CDR3
6 unique J



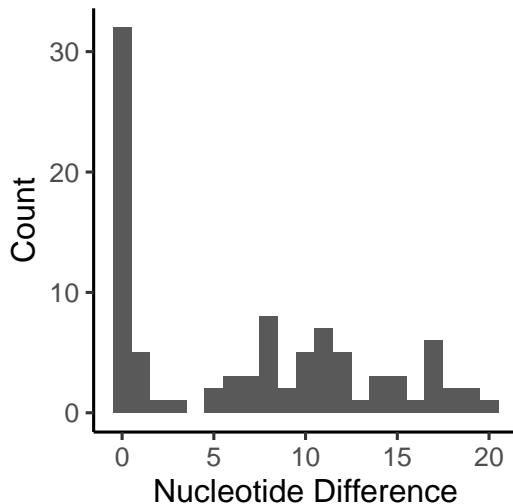
IGHV3-33*01

181 sequences assigned
40 (22.1%) exact matches, in which:
39 unique CDR3
4 unique J



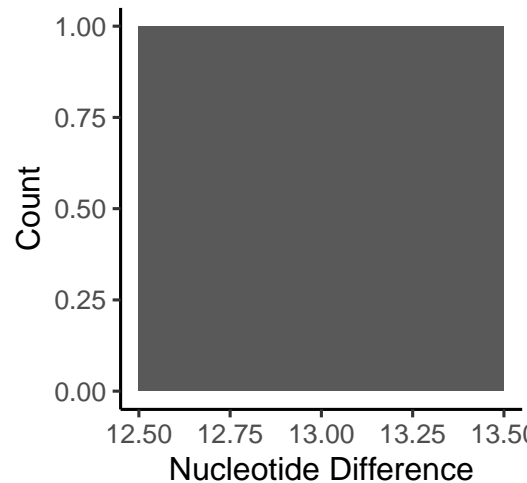
IGHV3-48*04

122 sequences assigned
32 (26.2%) exact matches, in which:
26 unique CDR3
5 unique J



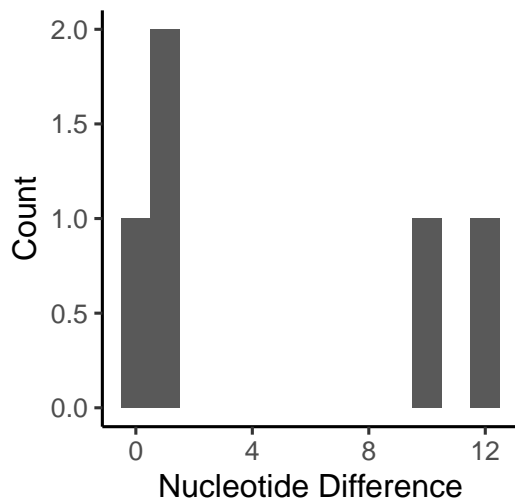
IGHV3-64*04

1 sequences assigned
No exact matches.



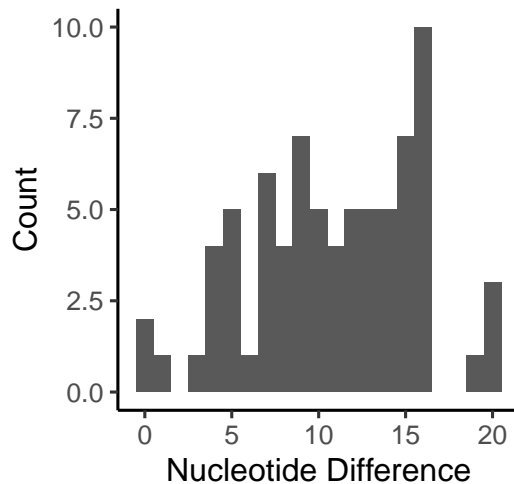
IGHV3-64*02_07

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



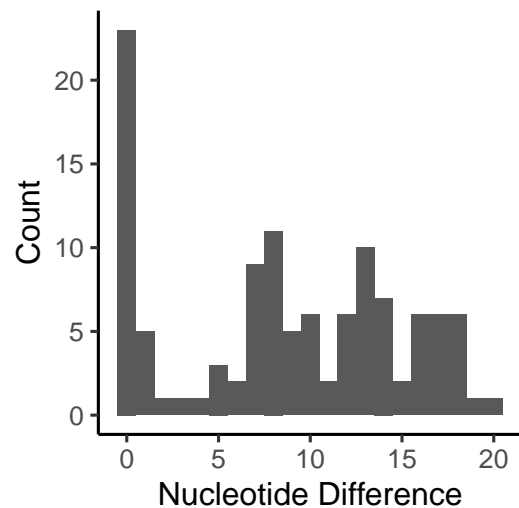
IGHV3-72*01

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



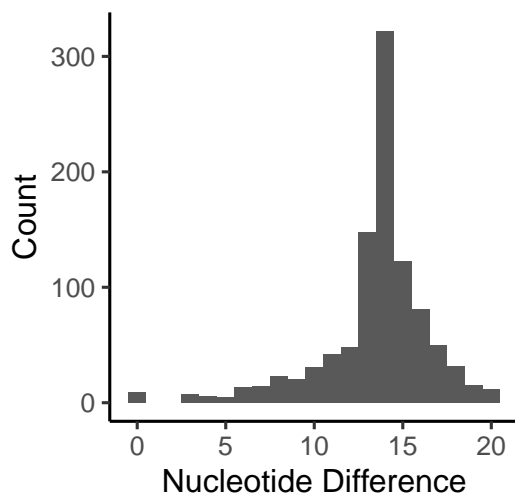
IGHV3-74*01_02

128 sequences assigned
23 (18%) exact matches, in which:
22 unique CDR3
3 unique J



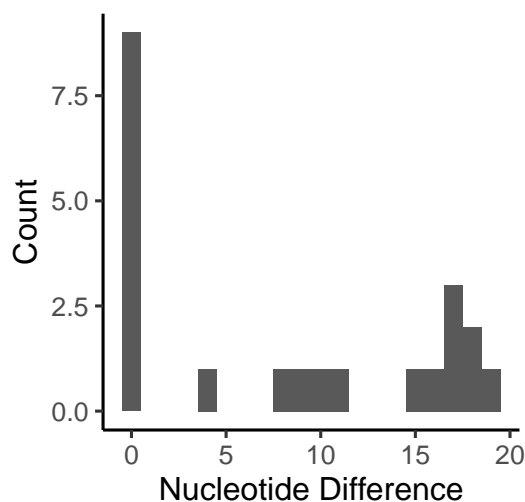
IGHV3-66*01

1024 sequences assigned
9 (0.9%) exact matches, in which:
9 unique CDR3
4 unique J



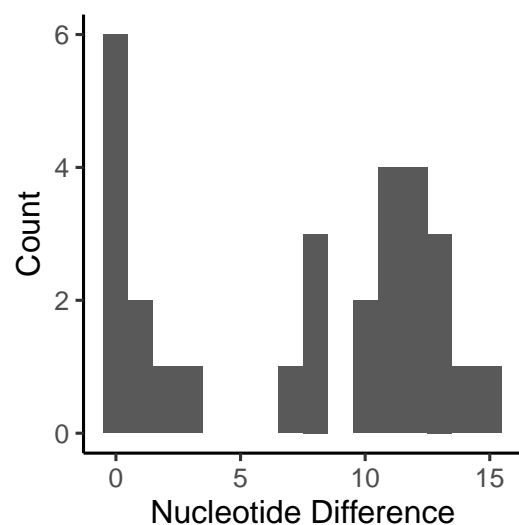
IGHV3-73*01_02

30 sequences assigned
9 (30%) exact matches, in which:
9 unique CDR3
2 unique J



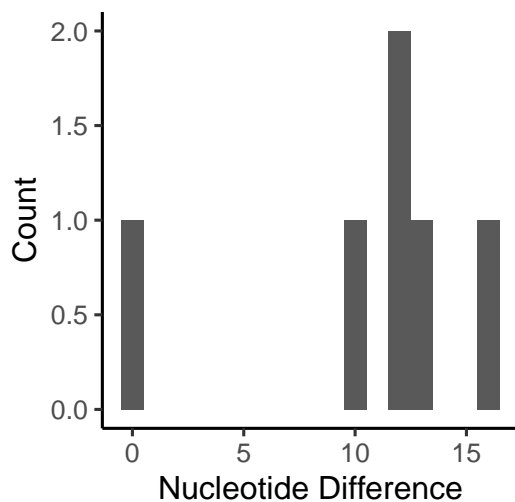
IGHV3-43D*03

31 sequences assigned
6 (19.4%) exact matches, in which:
6 unique CDR3
3 unique J



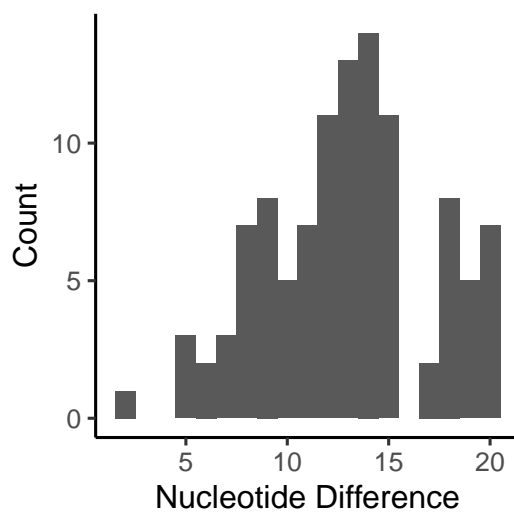
IGHV3-66*04

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



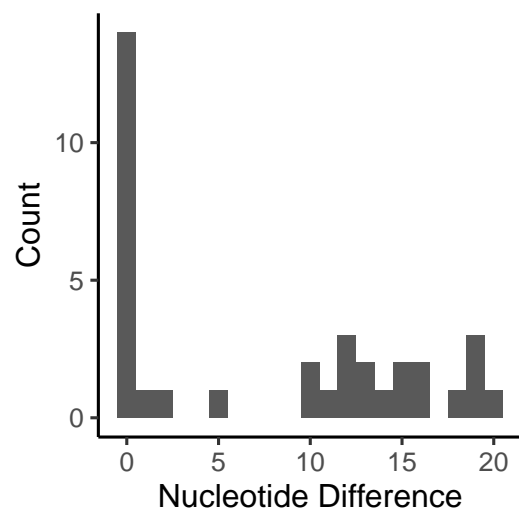
IGHV3-74*03

123 sequences assigned
No exact matches.



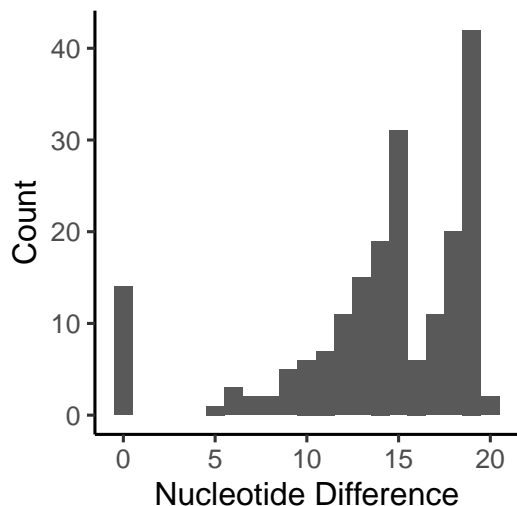
IGHV3-64D*09

46 sequences assigned
14 (30.4%) exact matches, in which:
13 unique CDR3
4 unique J



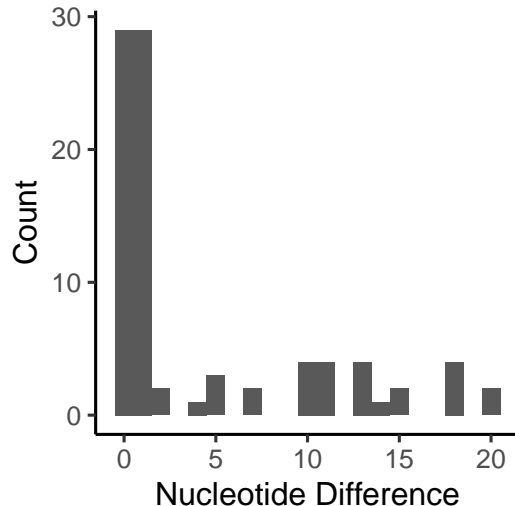
IGHV4-4*07

211 sequences assigned
14 (6.6%) exact matches, in which:
14 unique CDR3
4 unique J



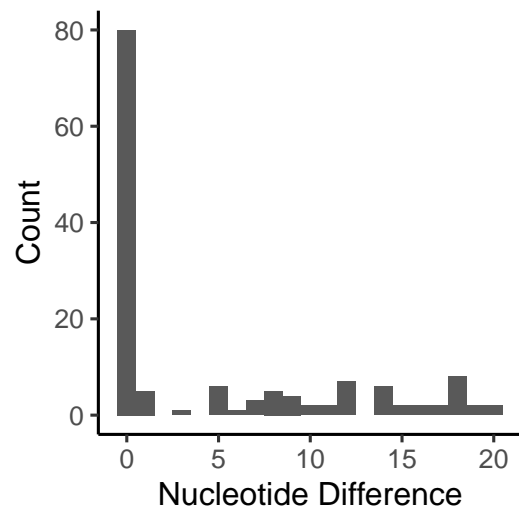
IGHV4-30-2*01

101 sequences assigned
29 (28.7%) exact matches, in which:
24 unique CDR3
5 unique J



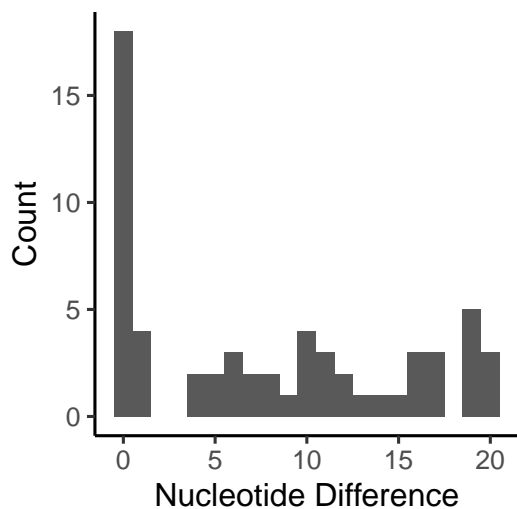
IGHV4-34*01_02

159 sequences assigned
80 (50.3%) exact matches, in which:
67 unique CDR3
6 unique J



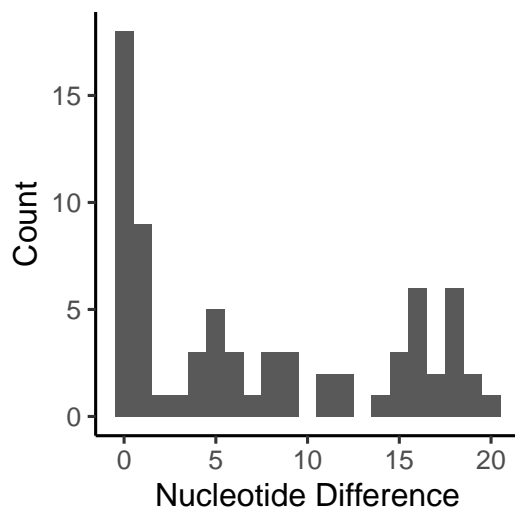
IGHV4-4*02_03

76 sequences assigned
18 (23.7%) exact matches, in which:
16 unique CDR3
4 unique J



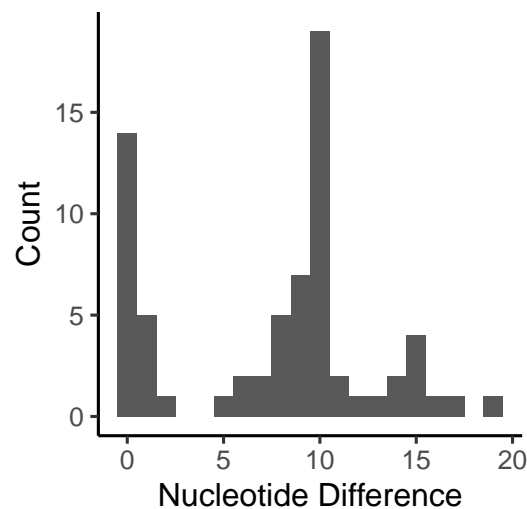
IGHV4-30-4*01

82 sequences assigned
18 (22%) exact matches, in which:
18 unique CDR3
5 unique J



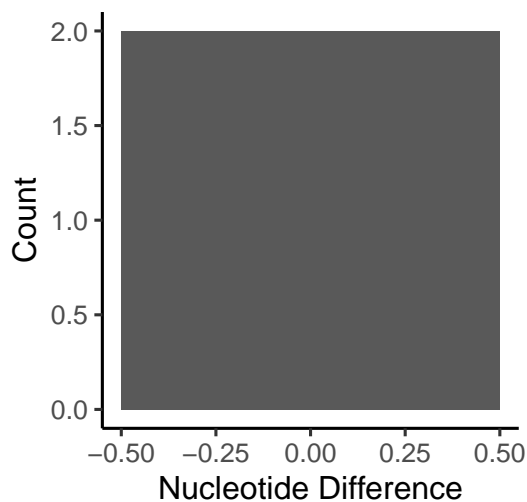
IGHV4-38-2*02

81 sequences assigned
14 (17.3%) exact matches, in which:
14 unique CDR3
4 unique J



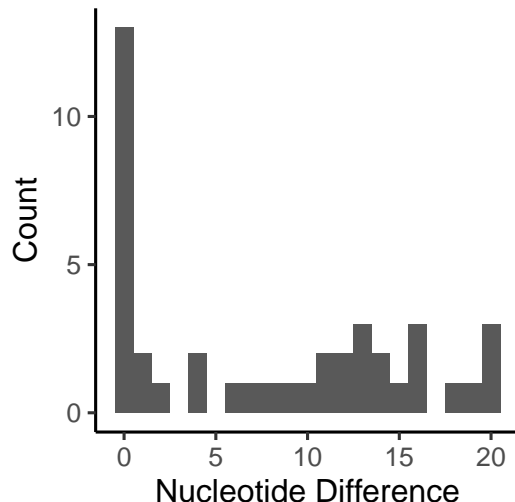
IGHV4-28*01_07

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



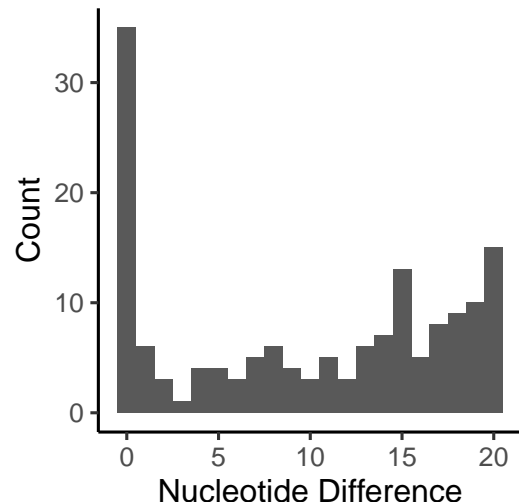
IGHV4-31*02

50 sequences assigned
13 (26%) exact matches, in which:
13 unique CDR3
5 unique J



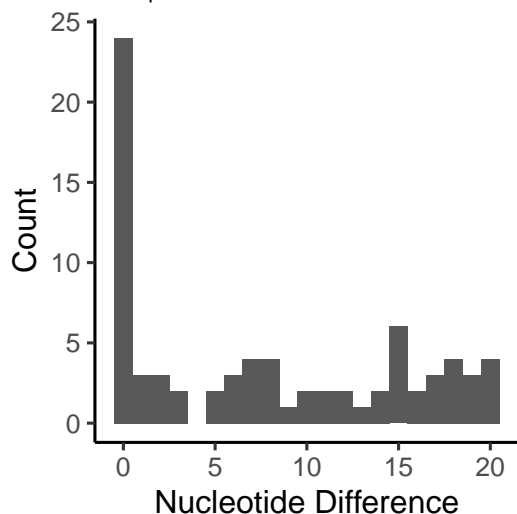
IGHV4-39*07

227 sequences assigned
35 (15.4%) exact matches, in which:
35 unique CDR3
4 unique J



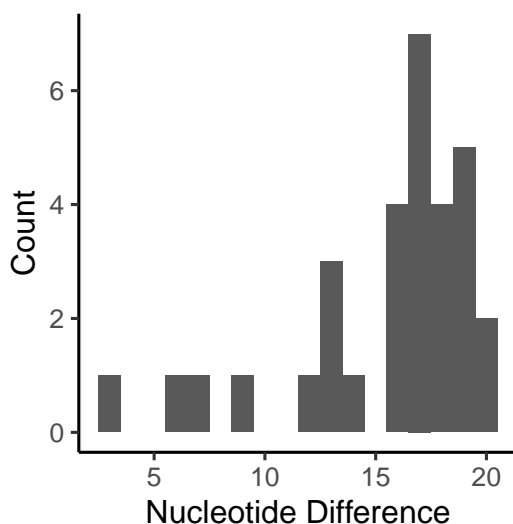
IGHV4-39*02_C258G

102 sequences assigned
24 (23.5%) exact matches, in which:
24 unique CDR3
5 unique J



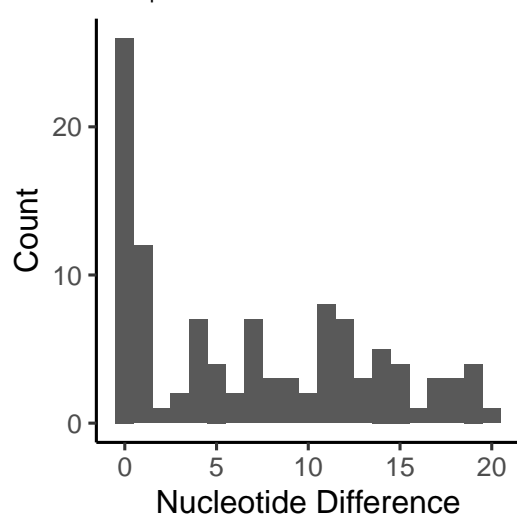
IGHV4-59*11

40 sequences assigned
No exact matches.



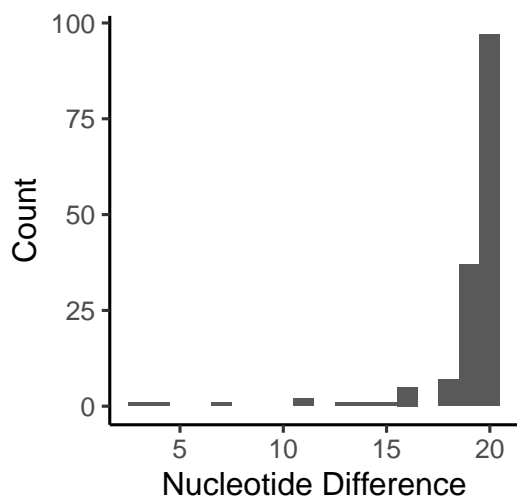
IGHV5-10-1*01_03

138 sequences assigned
26 (18.8%) exact matches, in which:
23 unique CDR3
5 unique J



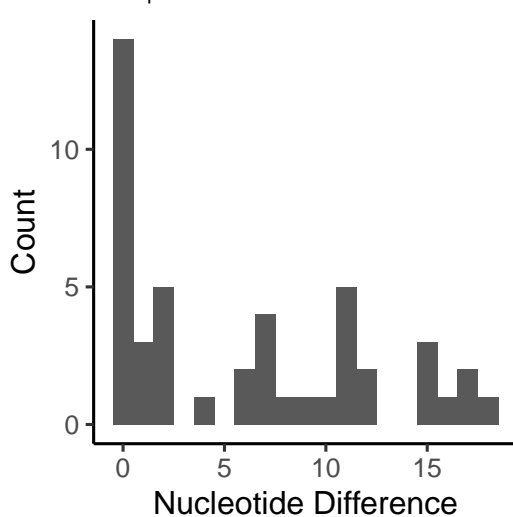
IGHV4-59*02

1869 sequences assigned
No exact matches.



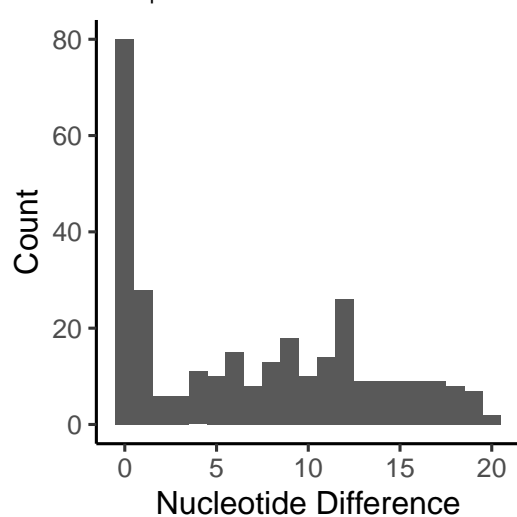
IGHV4-61*01

73 sequences assigned
14 (19.2%) exact matches, in which:
14 unique CDR3
4 unique J



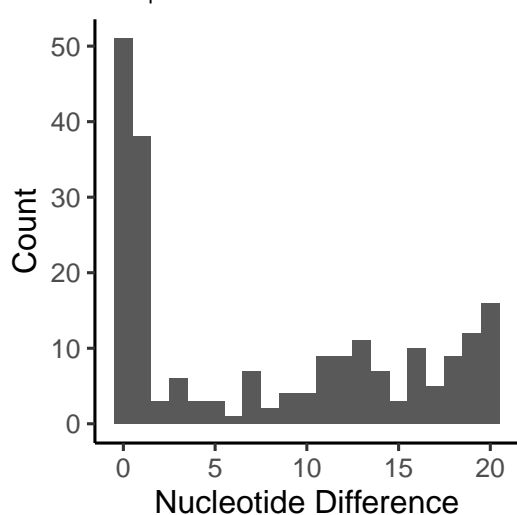
IGHV5-51*07_A128G

330 sequences assigned
80 (24.2%) exact matches, in which:
76 unique CDR3
5 unique J



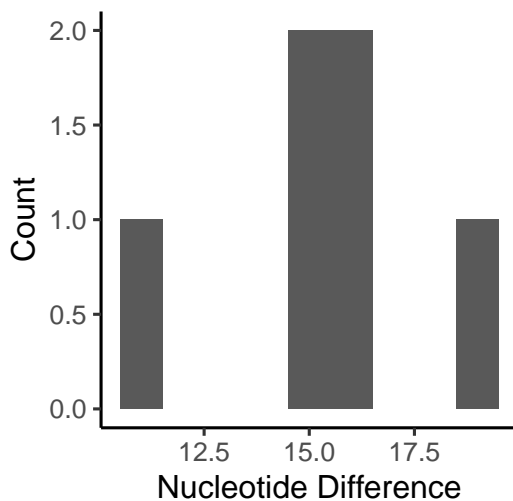
IGHV4-59*01_07

315 sequences assigned
51 (16.2%) exact matches, in which:
45 unique CDR3
6 unique J



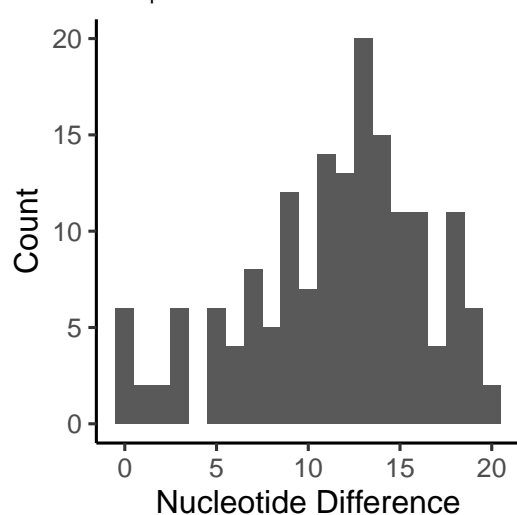
IGHV4-61*08

14 sequences assigned
No exact matches.

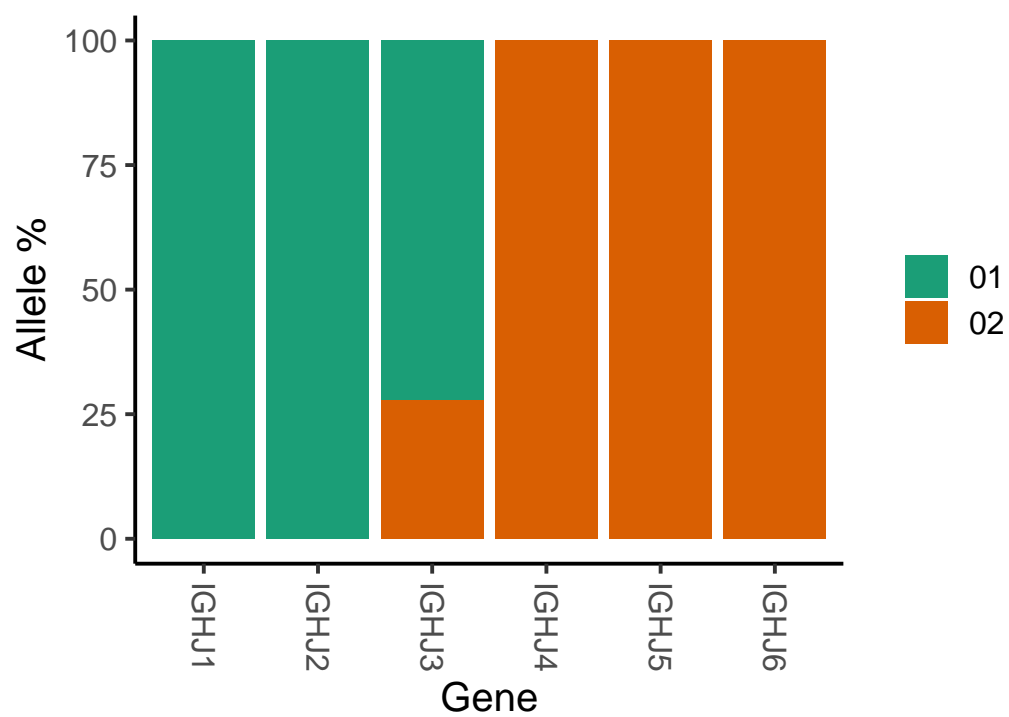


IGHV6-1*01_02

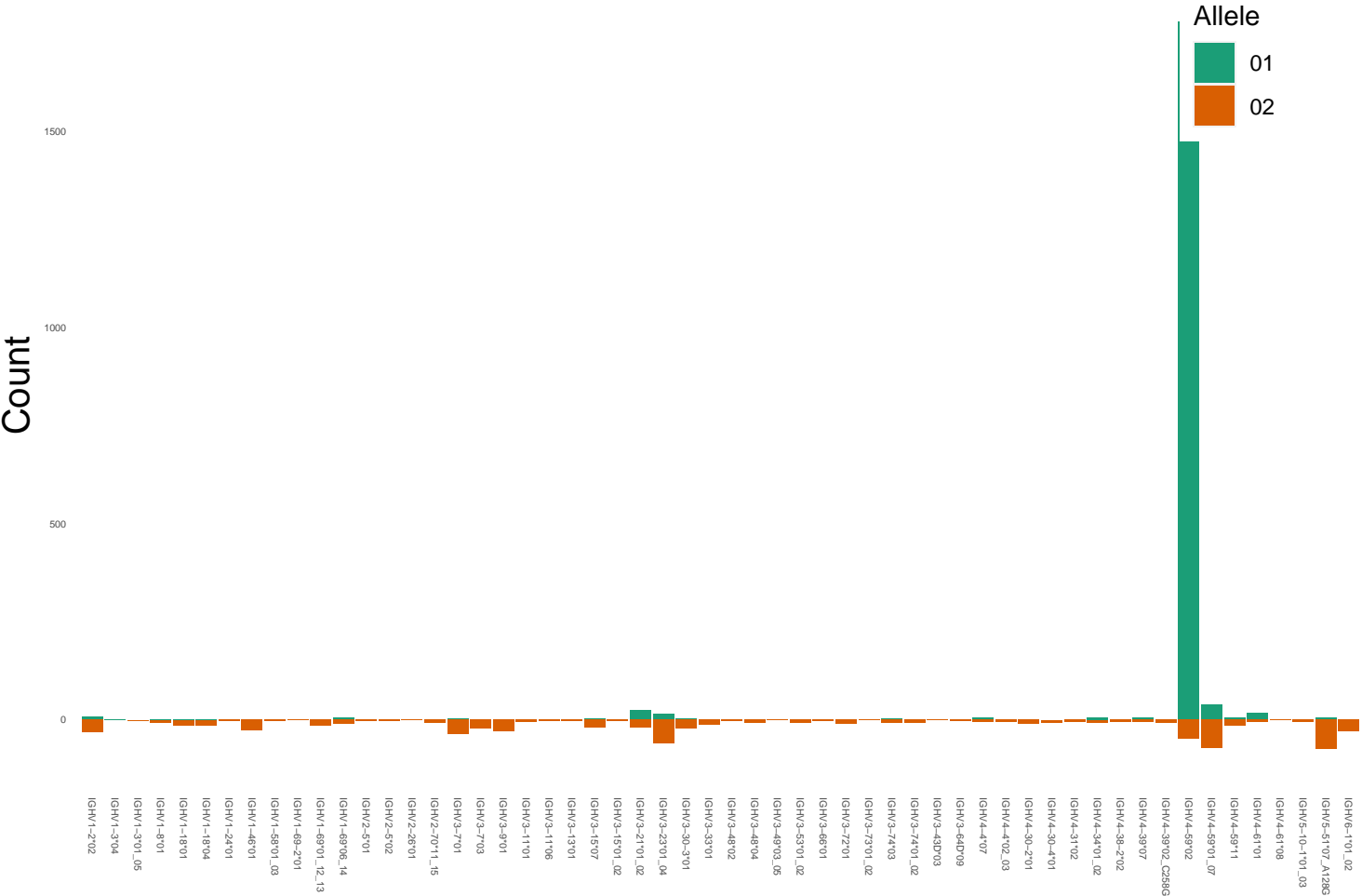
192 sequences assigned
6 (3.1%) exact matches, in which:
6 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ3 allele usage



Warning – no inferred sequences found.