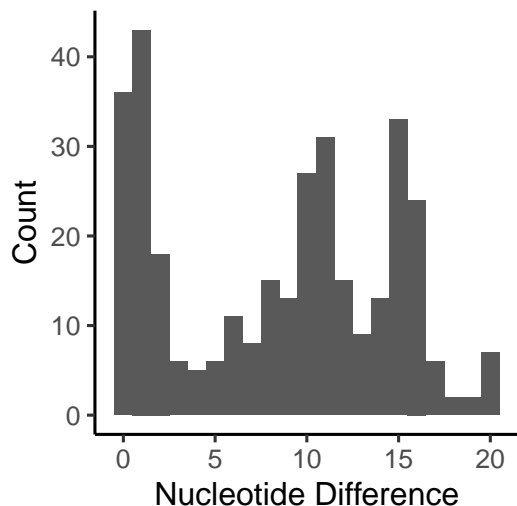


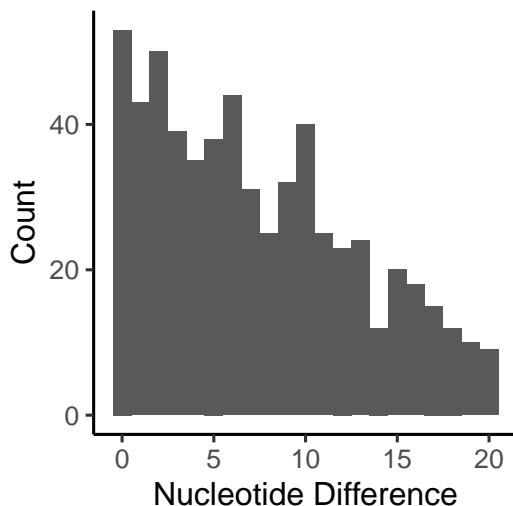
IGHV1-2*04

502 sequences assigned
36 (7.2%) exact matches, in which:
28 unique CDR3
5 unique J



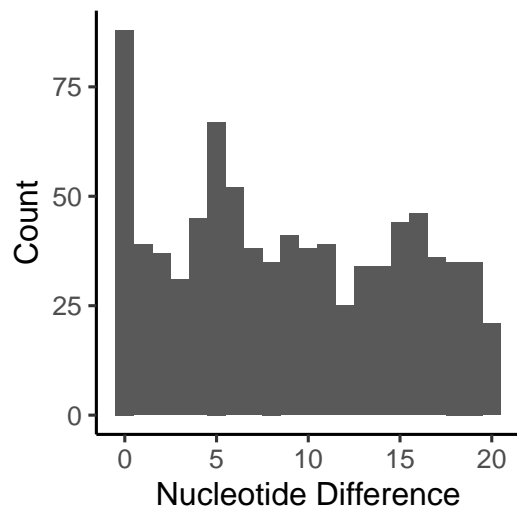
IGHV1-8*01

939 sequences assigned
53 (5.6%) exact matches, in which:
50 unique CDR3
6 unique J



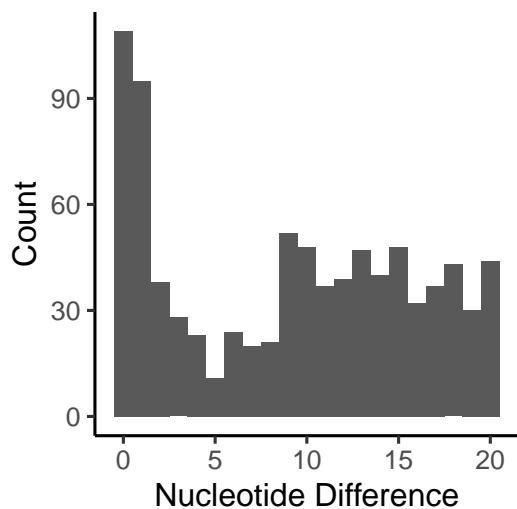
IGHV1-46*01

1477 sequences assigned
88 (6%) exact matches, in which:
83 unique CDR3
6 unique J



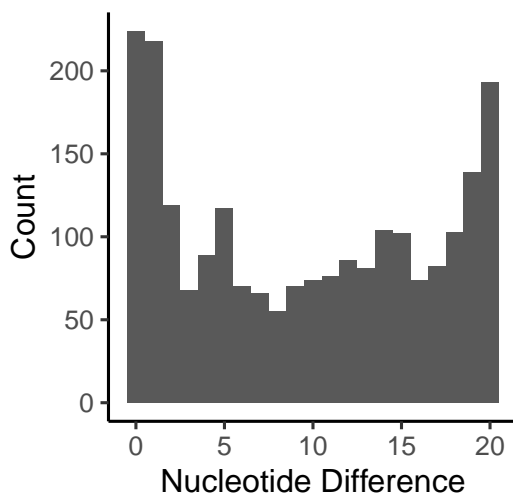
IGHV1-3*01

1335 sequences assigned
109 (8.2%) exact matches, in which:
100 unique CDR3
6 unique J



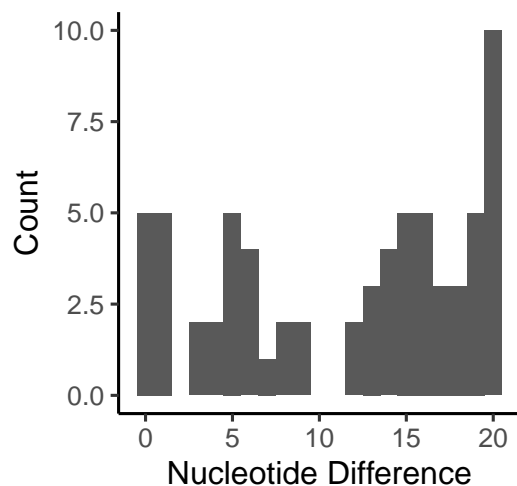
IGHV1-18*01

5036 sequences assigned
224 (4.4%) exact matches, in which:
198 unique CDR3
7 unique J



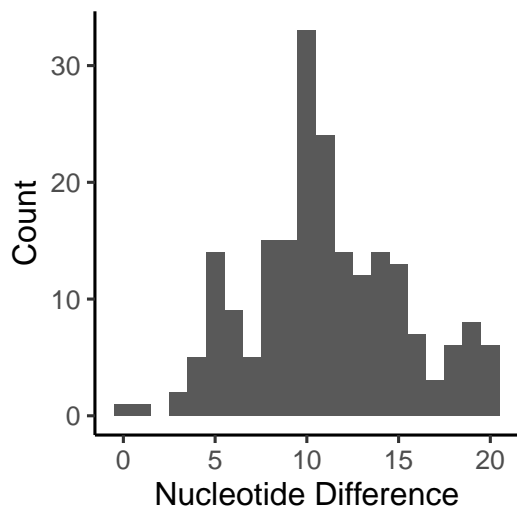
IGHV1-58*01

90 sequences assigned
5 (5.6%) exact matches, in which:
5 unique CDR3
3 unique J



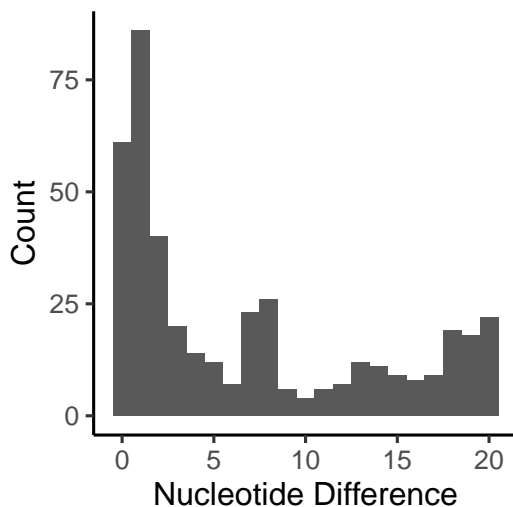
IGHV1-3*04

371 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



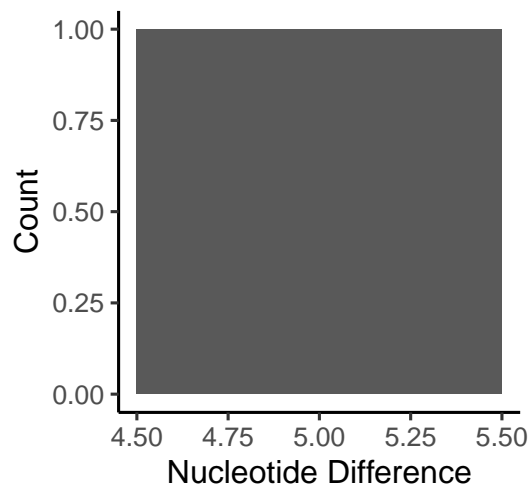
IGHV1-24*01

571 sequences assigned
61 (10.7%) exact matches, in which:
57 unique CDR3
7 unique J



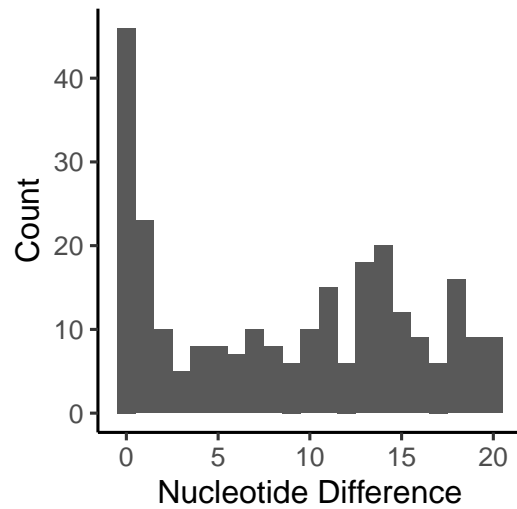
IGHV1-68*02

1 sequences assigned
No exact matches.



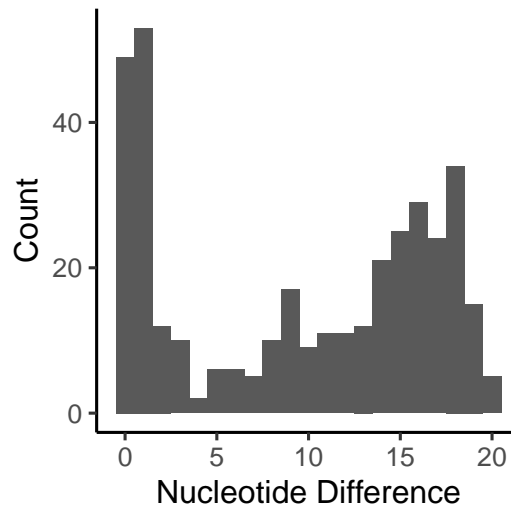
IGHV1-69*01

806 sequences assigned
46 (5.7%) exact matches, in which:
44 unique CDR3
6 unique J



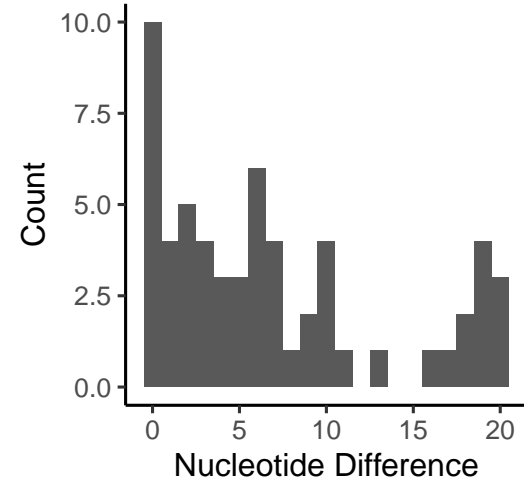
IGHV1-69*06

697 sequences assigned
49 (7%) exact matches, in which:
40 unique CDR3
4 unique J



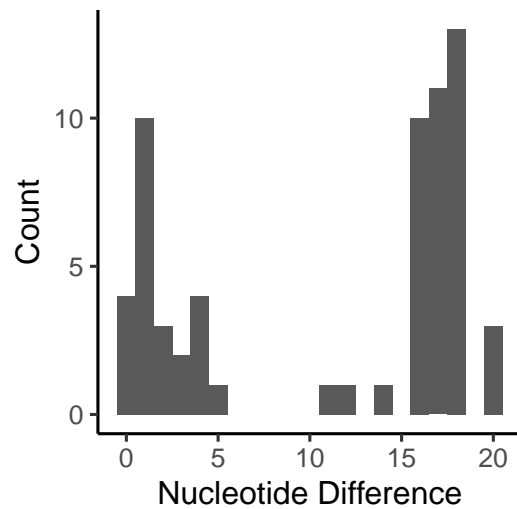
IGHV2-70*01

75 sequences assigned
10 (13.3%) exact matches, in which:
10 unique CDR3
4 unique J



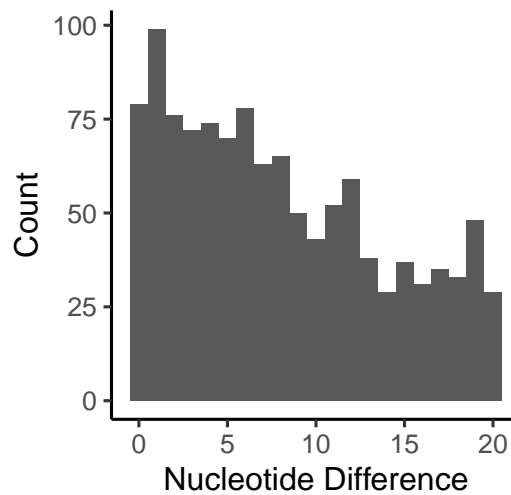
IGHV1-69-2*01

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



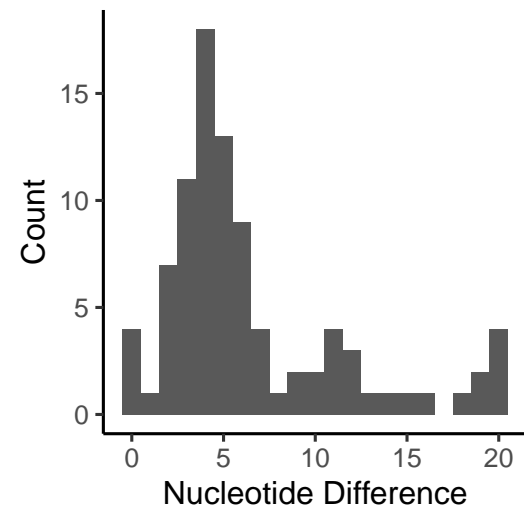
IGHV2-5*02

1371 sequences assigned
79 (5.8%) exact matches, in which:
74 unique CDR3
5 unique J



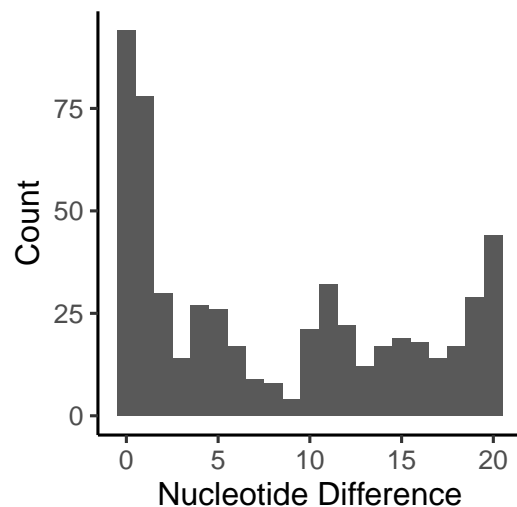
IGHV2-70*04

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



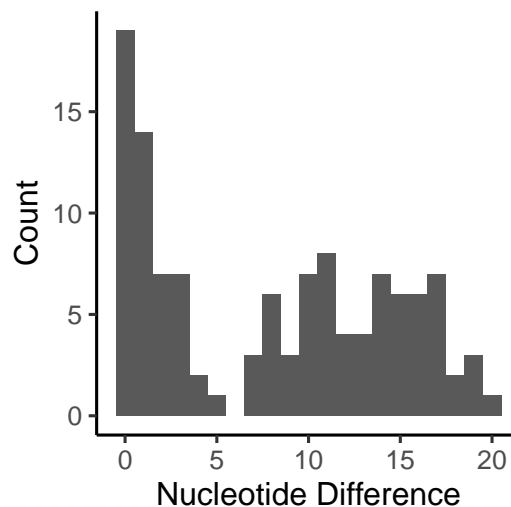
IGHV1-69*04

1230 sequences assigned
94 (7.6%) exact matches, in which:
90 unique CDR3
6 unique J



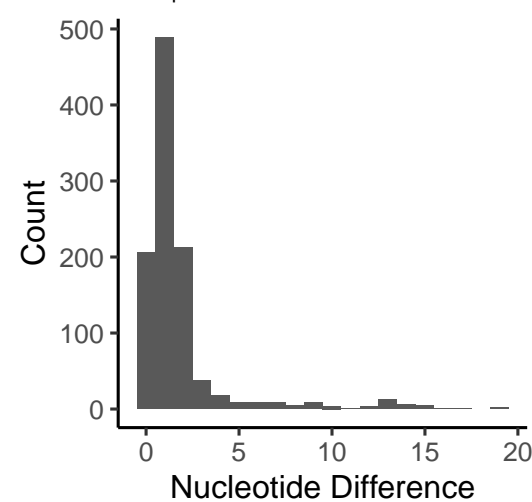
IGHV2-26*01

123 sequences assigned
19 (15.4%) exact matches, in which:
18 unique CDR3
6 unique J



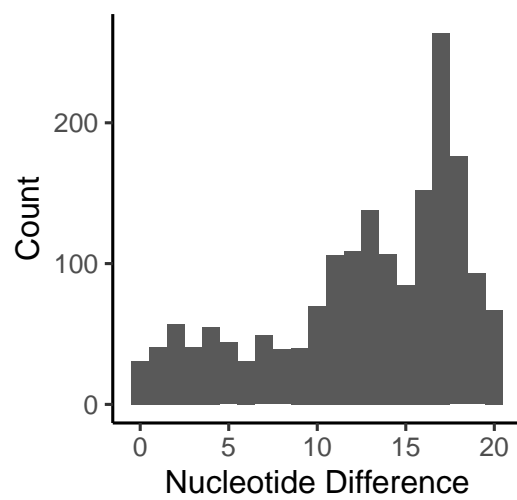
IGHV2-70*15

1063 sequences assigned
206 (19.4%) exact matches, in which:
77 unique CDR3
4 unique J



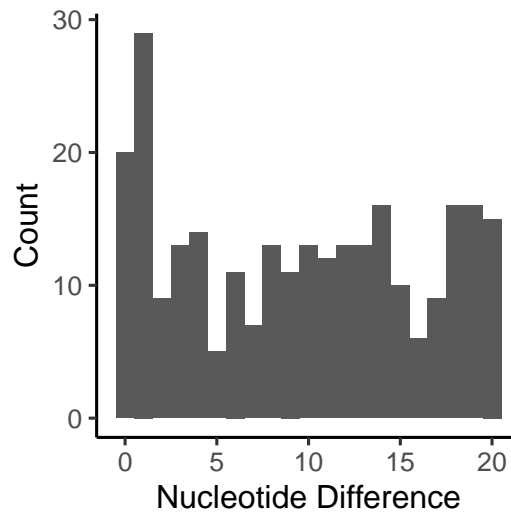
IGHV3-7*01

2144 sequences assigned
31 (1.4%) exact matches, in which:
31 unique CDR3
5 unique J



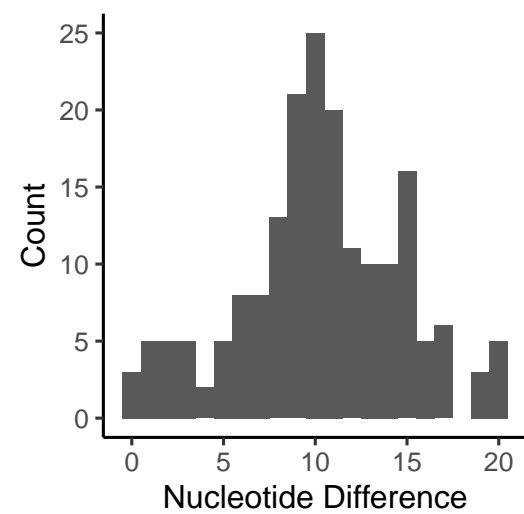
IGHV3-11*01

414 sequences assigned
20 (4.8%) exact matches, in which:
19 unique CDR3
4 unique J



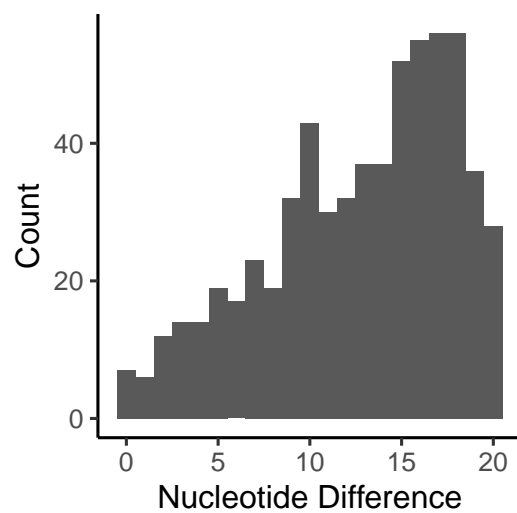
IGHV3-15*01

263 sequences assigned
3 (1.1%) exact matches, in which:
3 unique CDR3
3 unique J



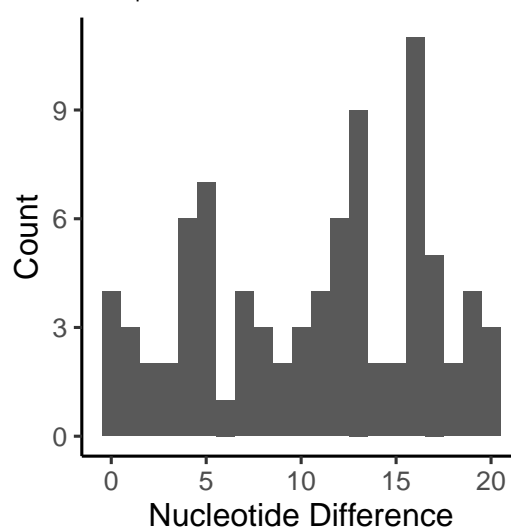
IGHV3-7*04

1082 sequences assigned
7 (0.6%) exact matches, in which:
7 unique CDR3
3 unique J



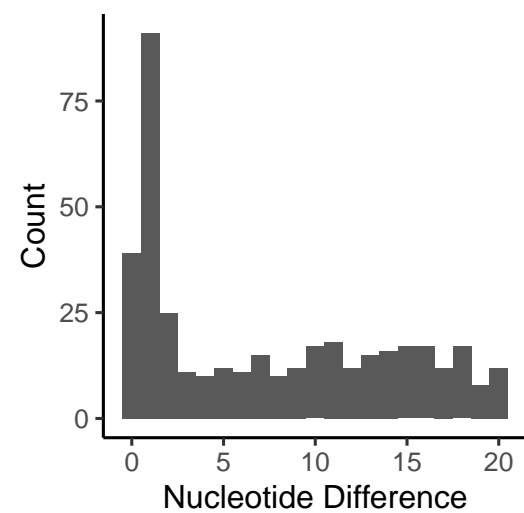
IGHV3-11*06

143 sequences assigned
4 (2.8%) exact matches, in which:
4 unique CDR3
2 unique J



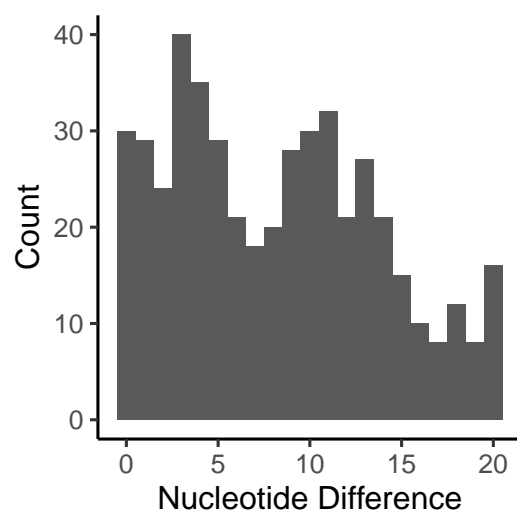
IGHV3-15*07

562 sequences assigned
39 (6.9%) exact matches, in which:
24 unique CDR3
3 unique J



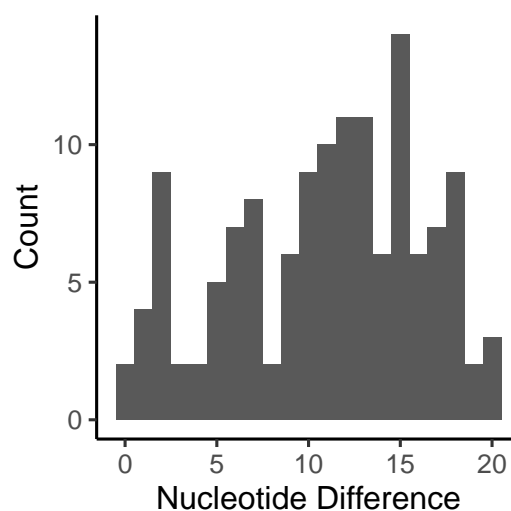
IGHV3-9*01

638 sequences assigned
30 (4.7%) exact matches, in which:
28 unique CDR3
5 unique J



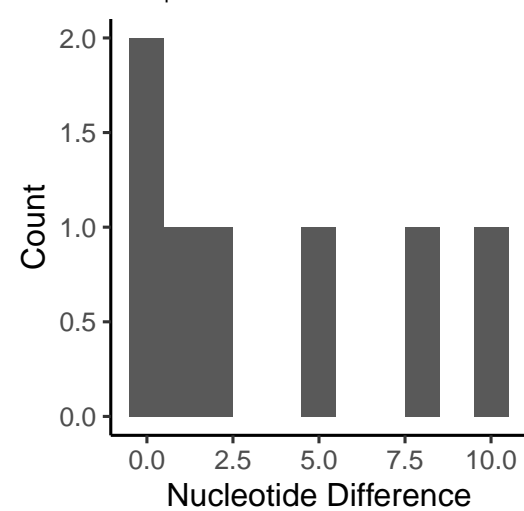
IGHV3-13*01

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



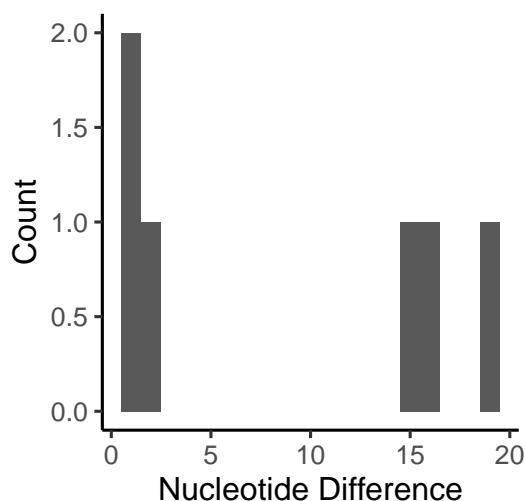
IGHV3-20*01

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J



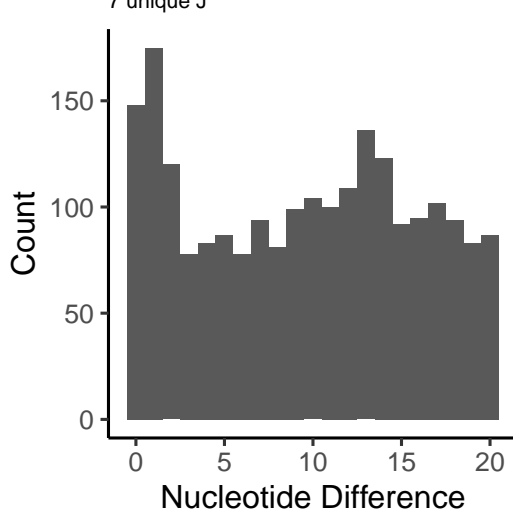
IGHV3-20*04

12 sequences assigned
No exact matches.



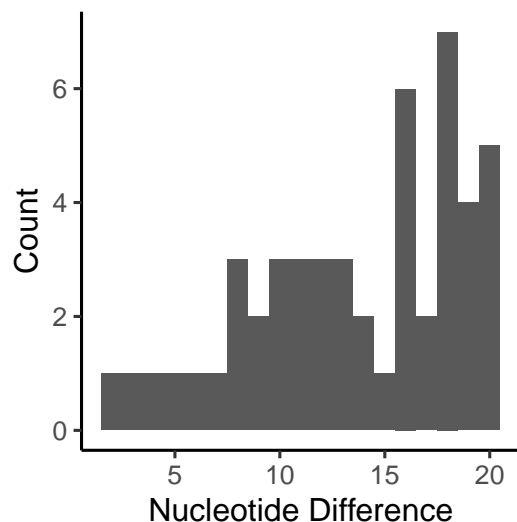
IGHV3-23*01

3531 sequences assigned
148 (4.2%) exact matches, in which:
138 unique CDR3
7 unique J



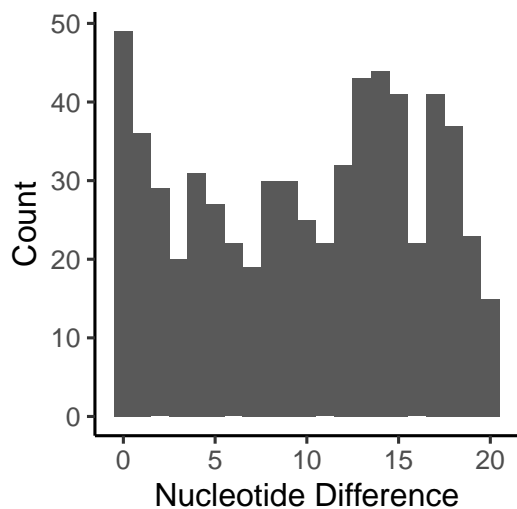
IGHV3-30*04

145 sequences assigned
No exact matches.



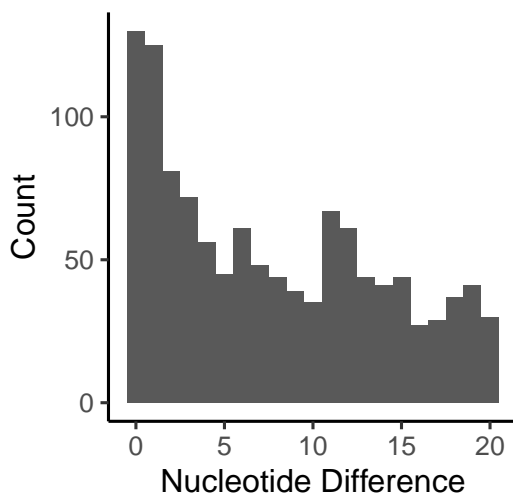
IGHV3-21*01

1030 sequences assigned
49 (4.8%) exact matches, in which:
44 unique CDR3
7 unique J



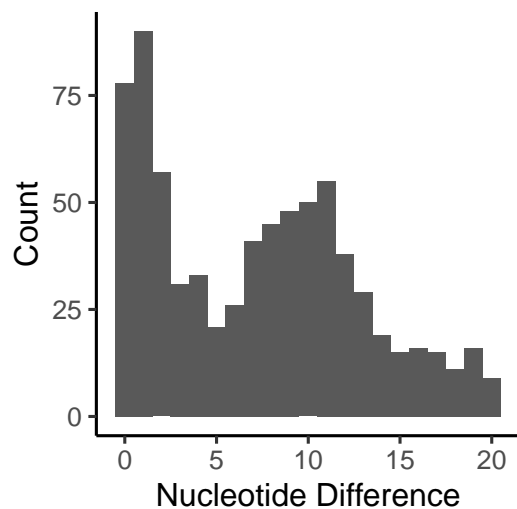
IGHV3-30-3*01

1651 sequences assigned
130 (7.9%) exact matches, in which:
115 unique CDR3
7 unique J



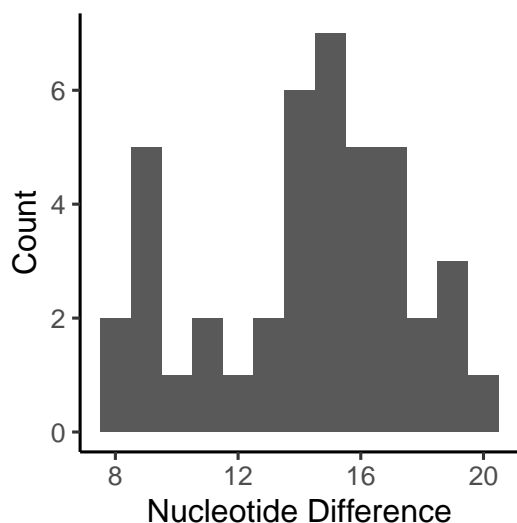
IGHV3-30*18

948 sequences assigned
78 (8.2%) exact matches, in which:
56 unique CDR3
5 unique J



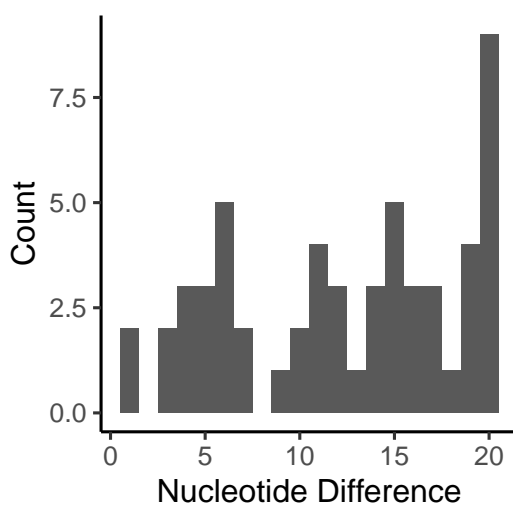
IGHV3-21*02

217 sequences assigned
No exact matches.



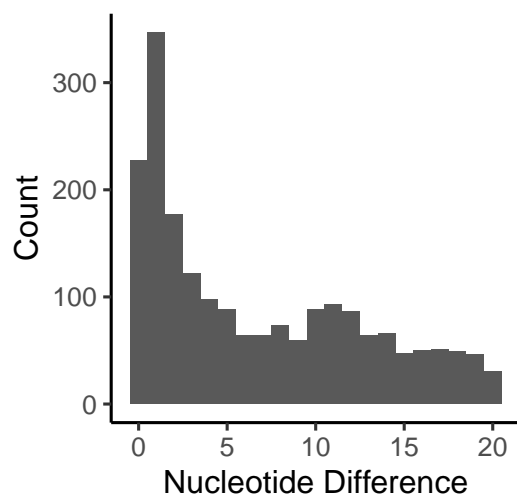
IGHV3-30*03

178 sequences assigned
No exact matches.



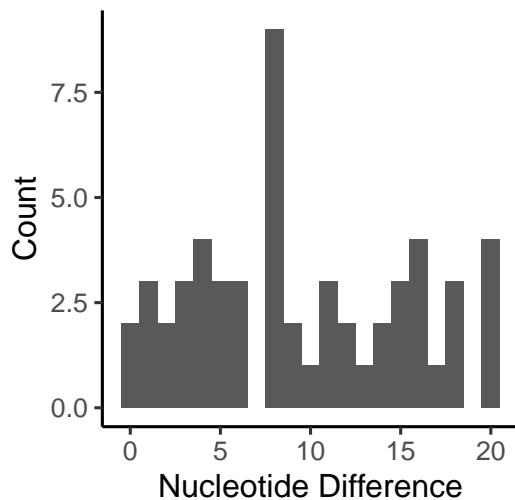
IGHV3-33*01

2500 sequences assigned
227 (9.1%) exact matches, in which:
157 unique CDR3
6 unique J



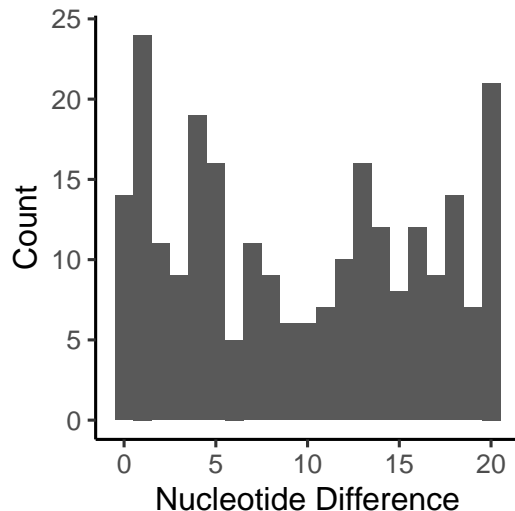
IGHV3-43*01

91 sequences assigned
2 (2.2%) exact matches, in which:
2 unique CDR3
2 unique J



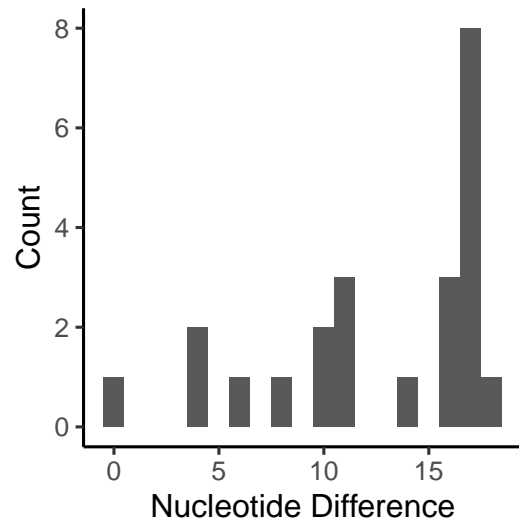
IGHV3-49*03

326 sequences assigned
14 (4.3%) exact matches, in which:
12 unique CDR3
3 unique J



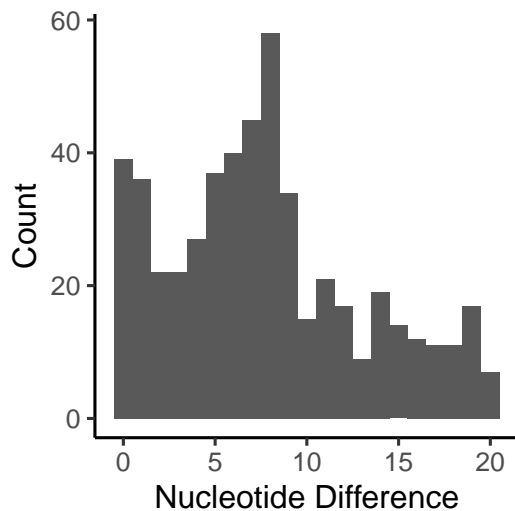
IGHV3-64*02

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



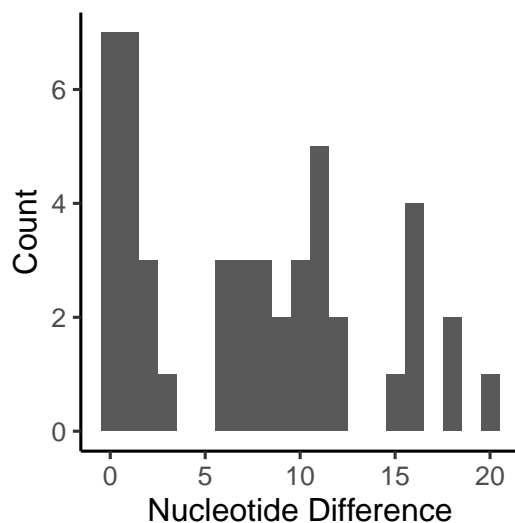
IGHV3-48*01

710 sequences assigned
39 (5.5%) exact matches, in which:
33 unique CDR3
4 unique J



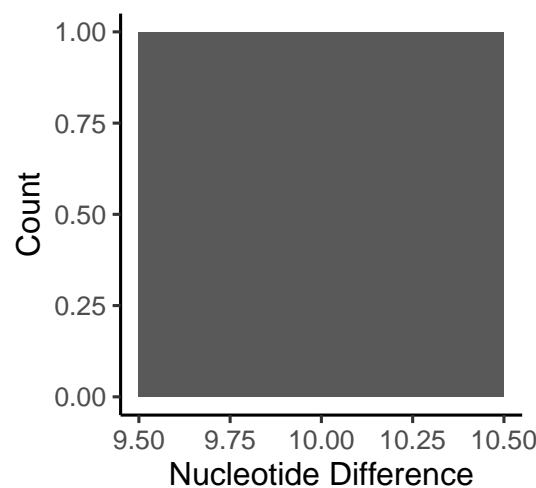
IGHV3-49*05

83 sequences assigned
7 (8.4%) exact matches, in which:
7 unique CDR3
3 unique J



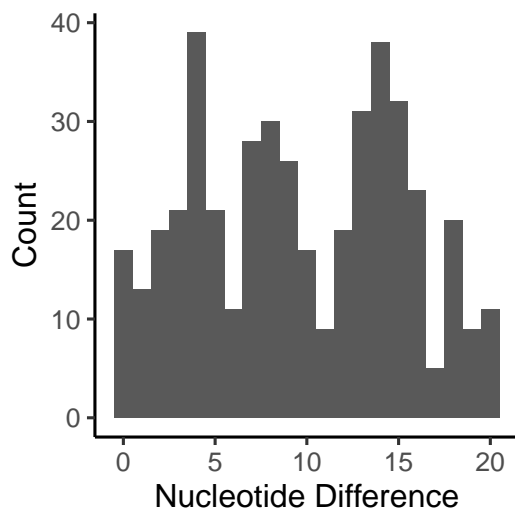
IGHV3-64*04

1 sequences assigned
No exact matches.



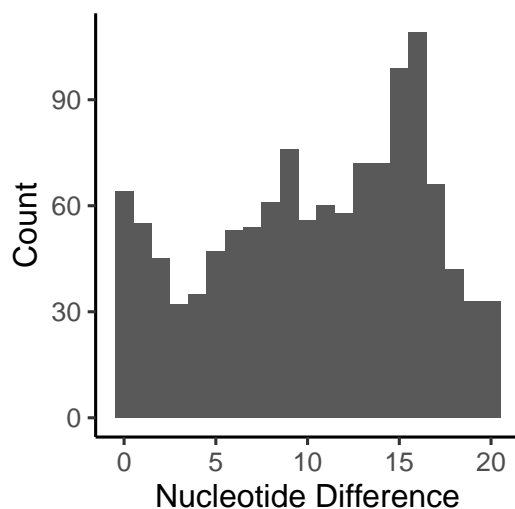
IGHV3-48*02

640 sequences assigned
17 (2.7%) exact matches, in which:
14 unique CDR3
4 unique J



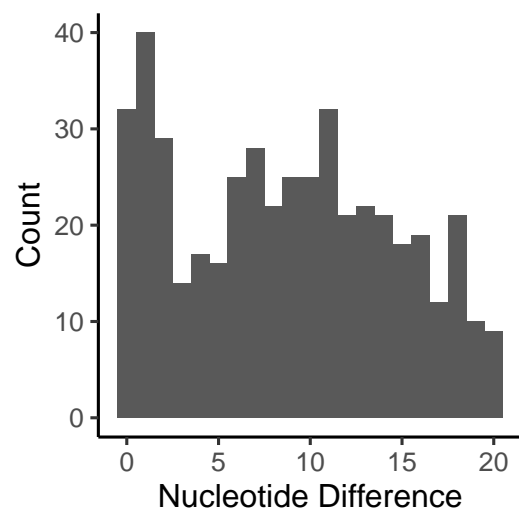
IGHV3-53*01

1891 sequences assigned
64 (3.4%) exact matches, in which:
63 unique CDR3
6 unique J



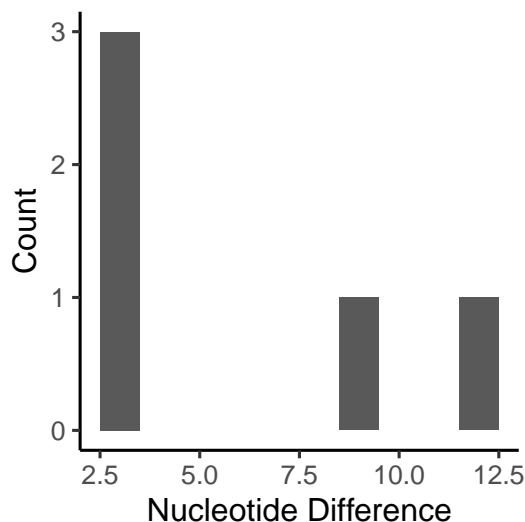
IGHV3-66*01

560 sequences assigned
32 (5.7%) exact matches, in which:
28 unique CDR3
4 unique J



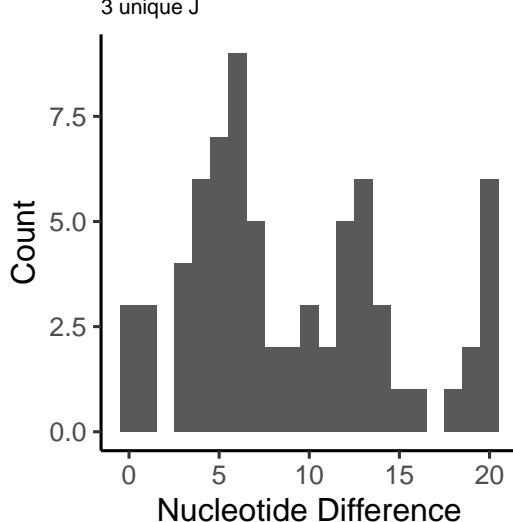
IGHV3-69-1*01

10 sequences assigned
No exact matches.



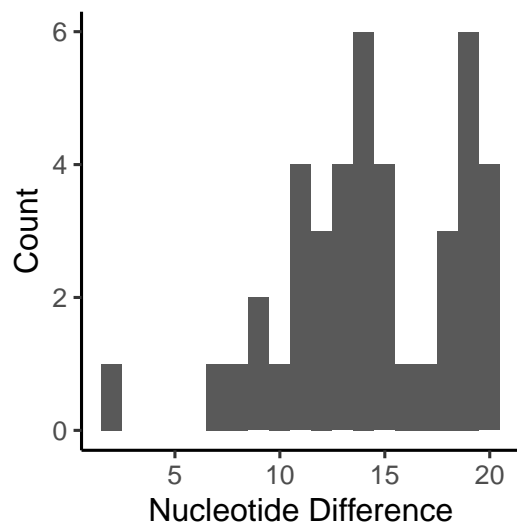
IGHV3-73*01

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



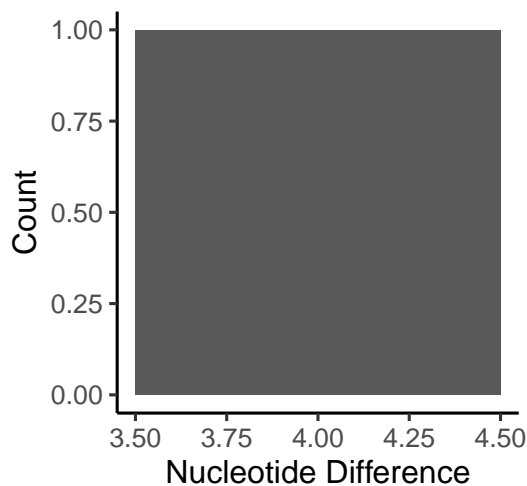
IGHV3-74*03

262 sequences assigned
No exact matches.



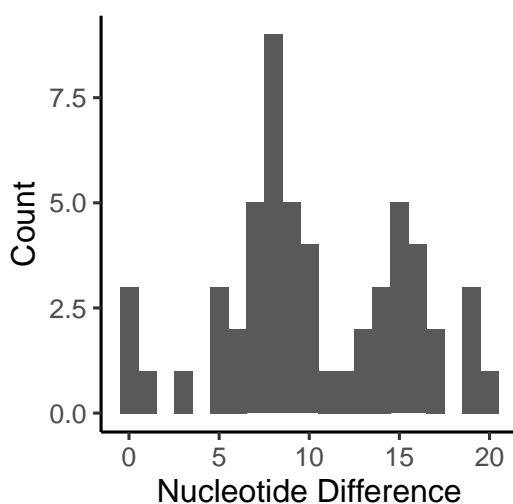
IGHV3-69-1*02

8 sequences assigned
No exact matches.



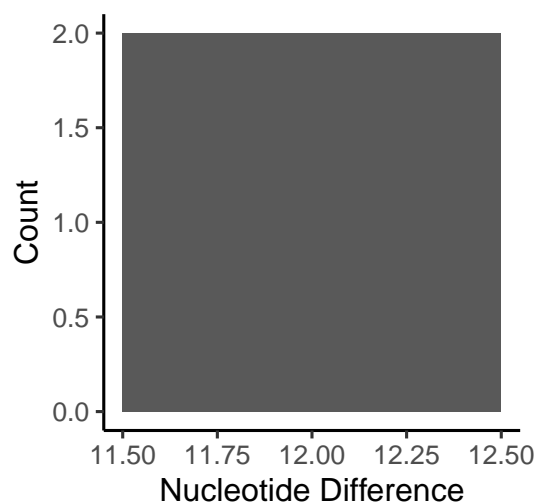
IGHV3-73*02

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



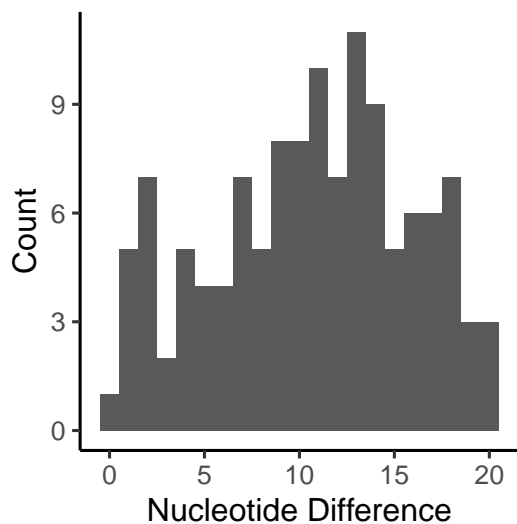
IGHV3-43D*04

9 sequences assigned
No exact matches.



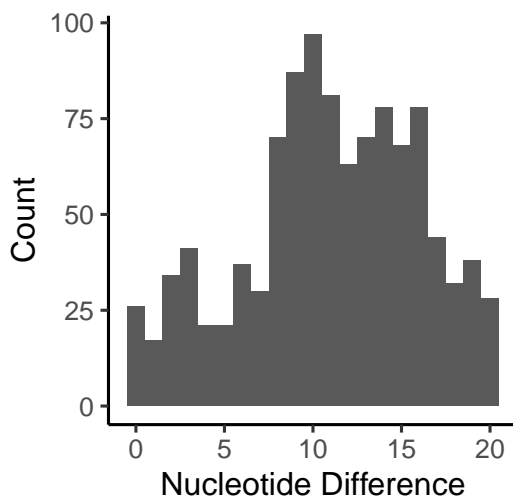
IGHV3-72*01

163 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



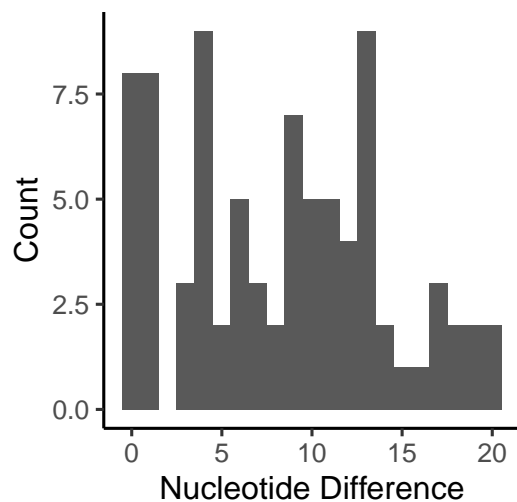
IGHV3-74*01

1460 sequences assigned
26 (1.8%) exact matches, in which:
21 unique CDR3
5 unique J



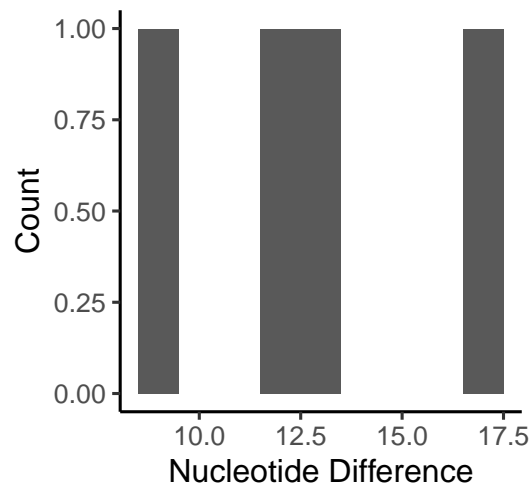
IGHV3-64D*06

88 sequences assigned
8 (9.1%) exact matches, in which:
7 unique CDR3
1 unique J



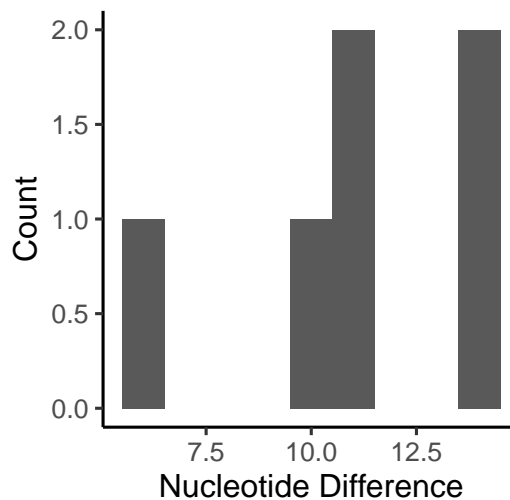
IGHV3-64D*08

8 sequences assigned
No exact matches.



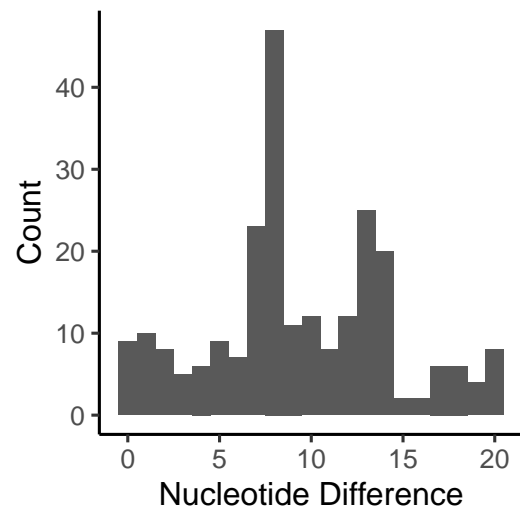
IGHV4-28*01

6 sequences assigned
No exact matches.



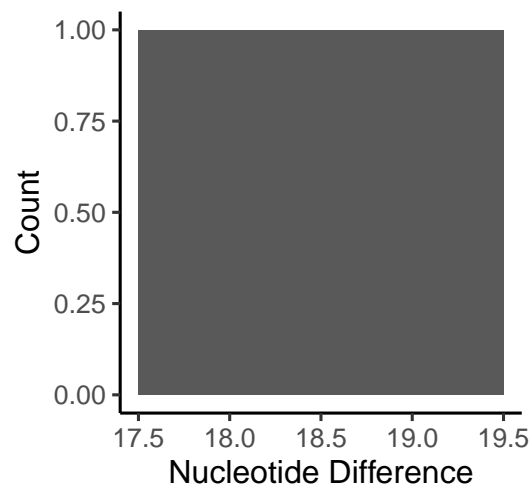
IGHV4-30-2*01

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



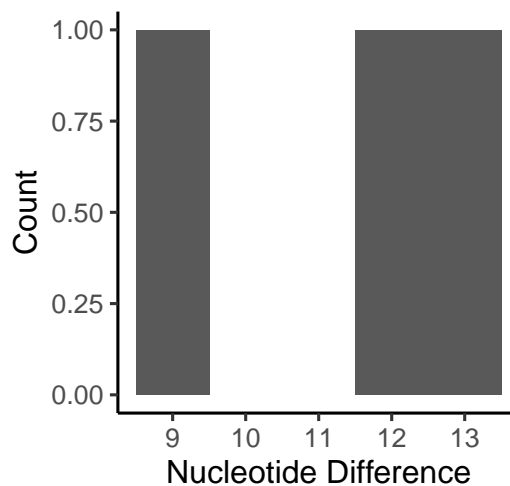
IGHV3-NL1*01

2 sequences assigned
No exact matches.



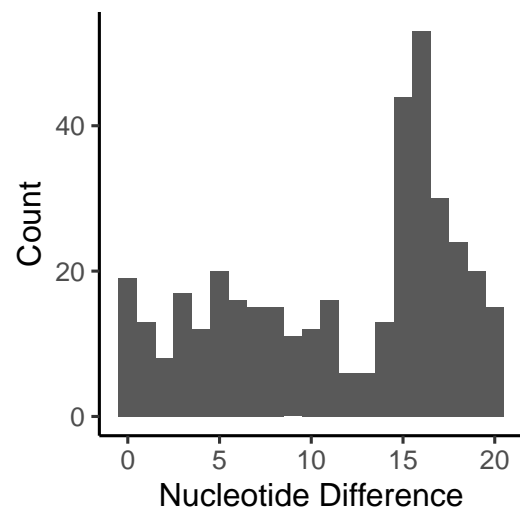
IGHV4-28*07

3 sequences assigned
No exact matches.



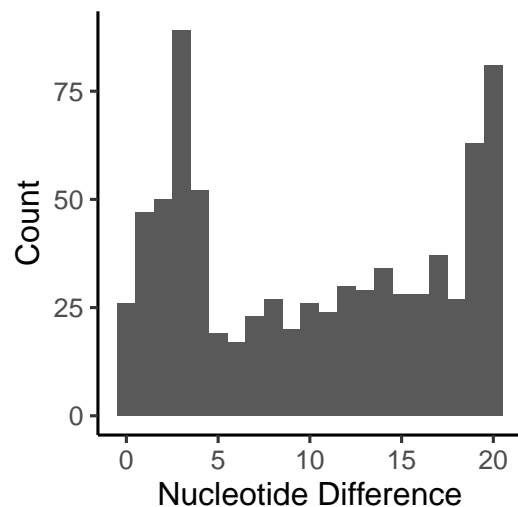
IGHV4-31*03

654 sequences assigned
19 (2.9%) exact matches, in which:
17 unique CDR3
6 unique J



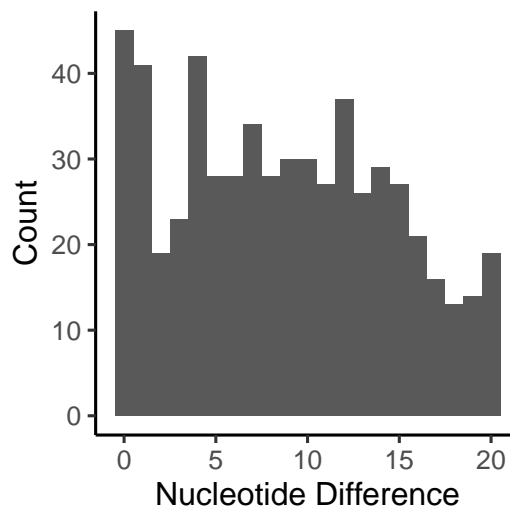
IGHV4-4*02

1238 sequences assigned
26 (2.1%) exact matches, in which:
22 unique CDR3
7 unique J



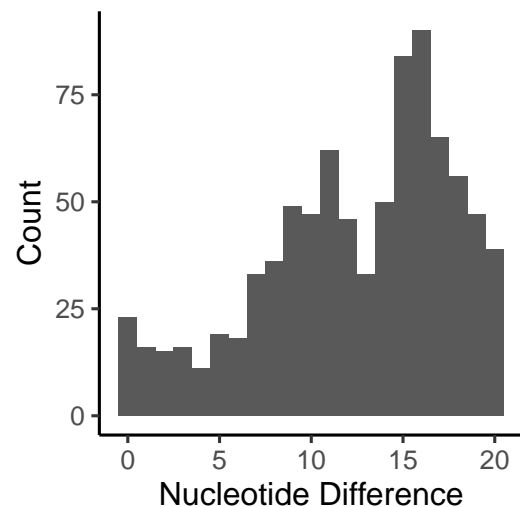
IGHV4-30-4*01

812 sequences assigned
45 (5.5%) exact matches, in which:
43 unique CDR3
6 unique J



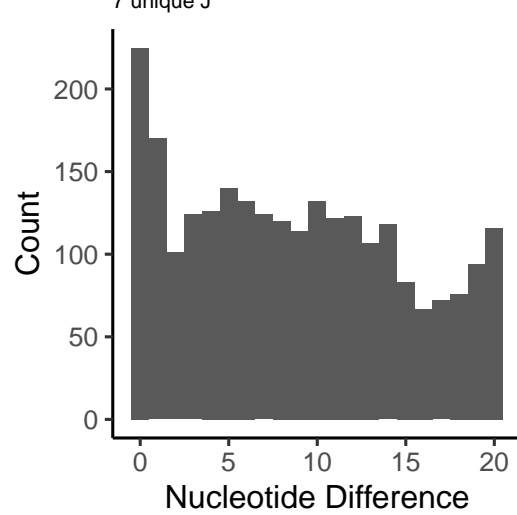
IGHV4-34*01

1290 sequences assigned
23 (1.8%) exact matches, in which:
19 unique CDR3
6 unique J



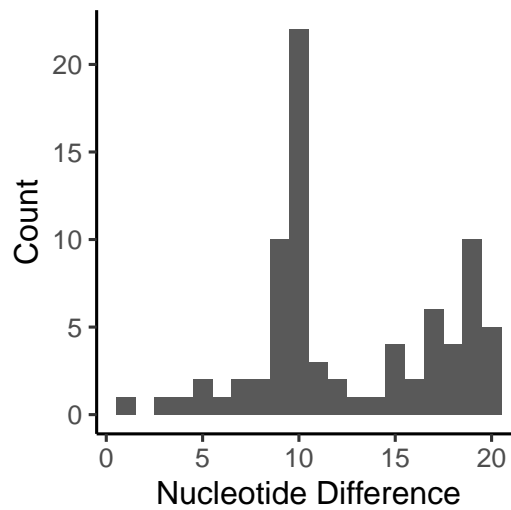
IGHV4-39*01

4311 sequences assigned
225 (5.2%) exact matches, in which:
201 unique CDR3
7 unique J



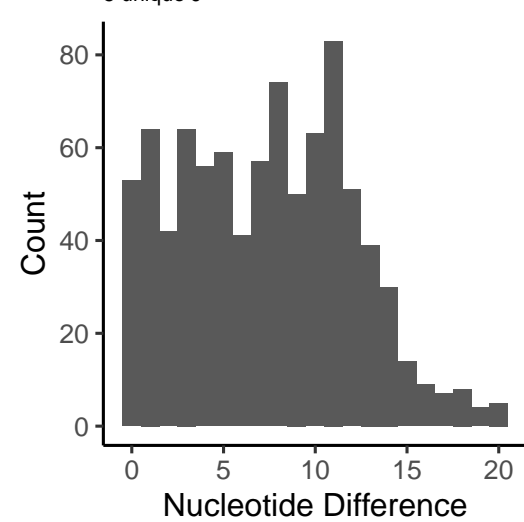
IGHV4-61*08

107 sequences assigned
No exact matches.



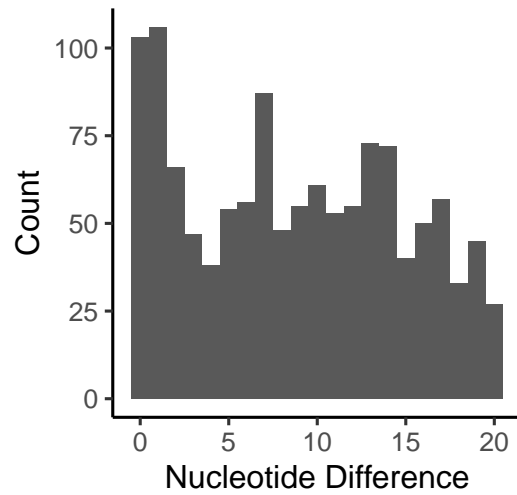
IGHV6-1*01

936 sequences assigned
53 (5.7%) exact matches, in which:
49 unique CDR3
5 unique J



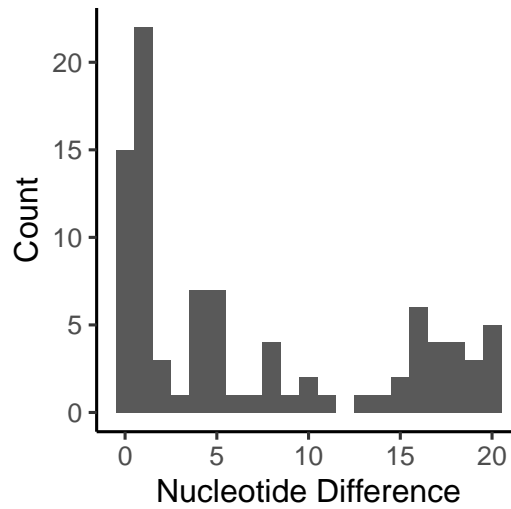
IGHV4-59*01

1994 sequences assigned
103 (5.2%) exact matches, in which:
76 unique CDR3
7 unique J



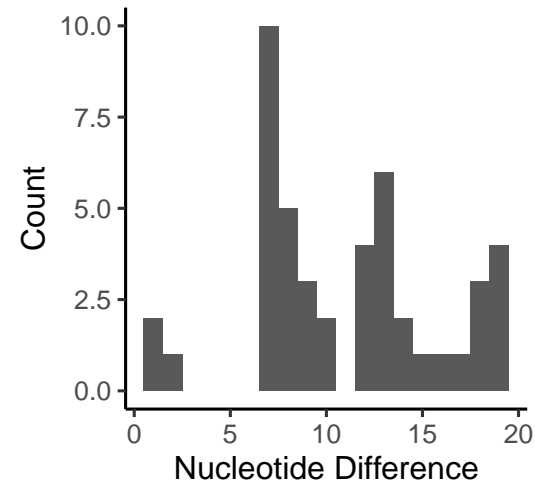
IGHV5-10-1*03

141 sequences assigned
15 (10.6%) exact matches, in which:
10 unique CDR3
3 unique J



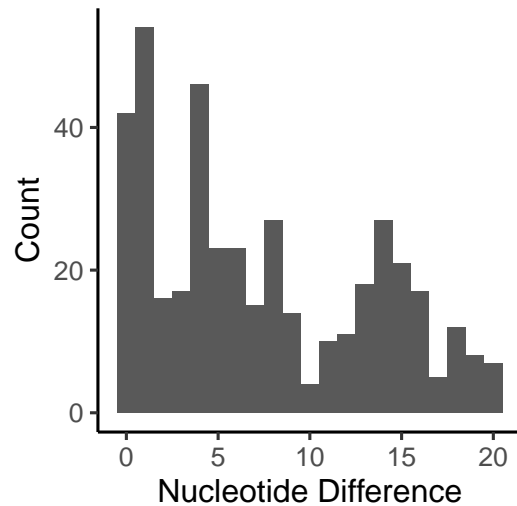
IGHV7-4-1*01

80 sequences assigned
No exact matches.



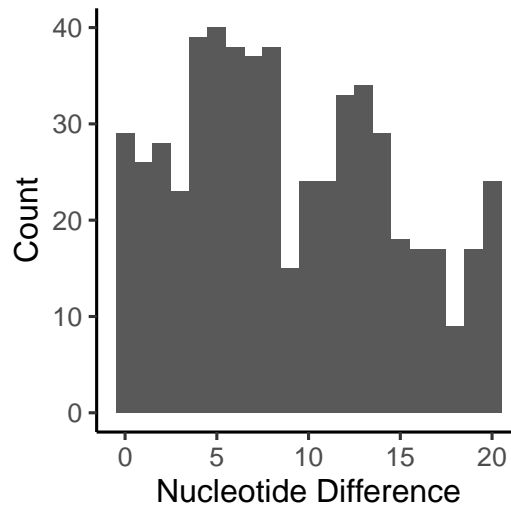
IGHV4-61*01

536 sequences assigned
42 (7.8%) exact matches, in which:
28 unique CDR3
6 unique J

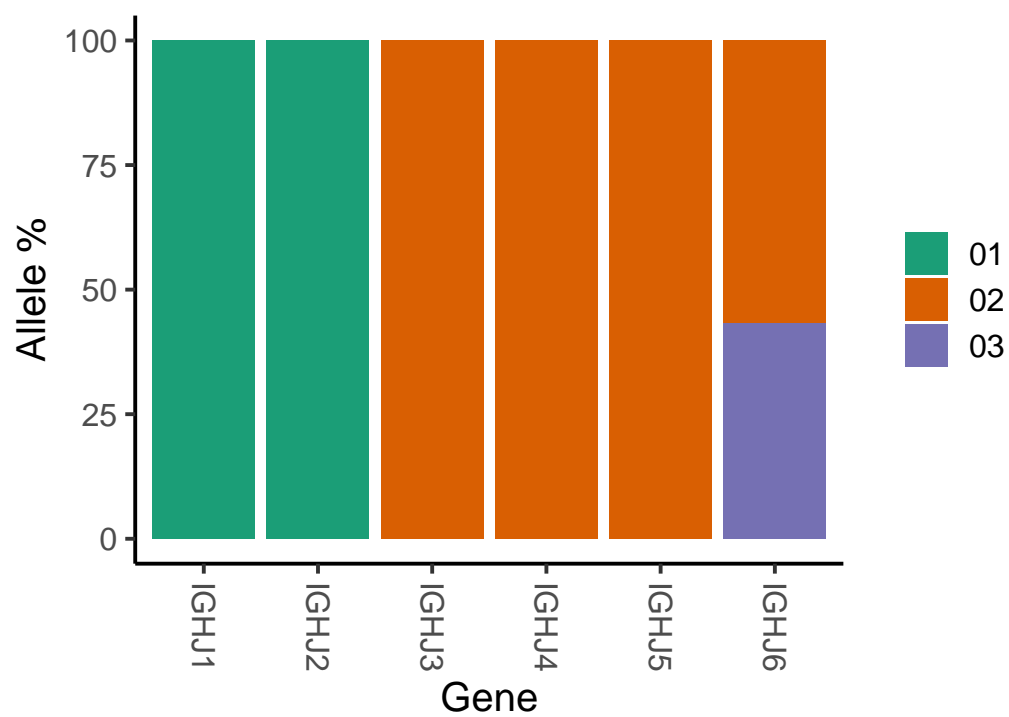


IGHV5-51*01

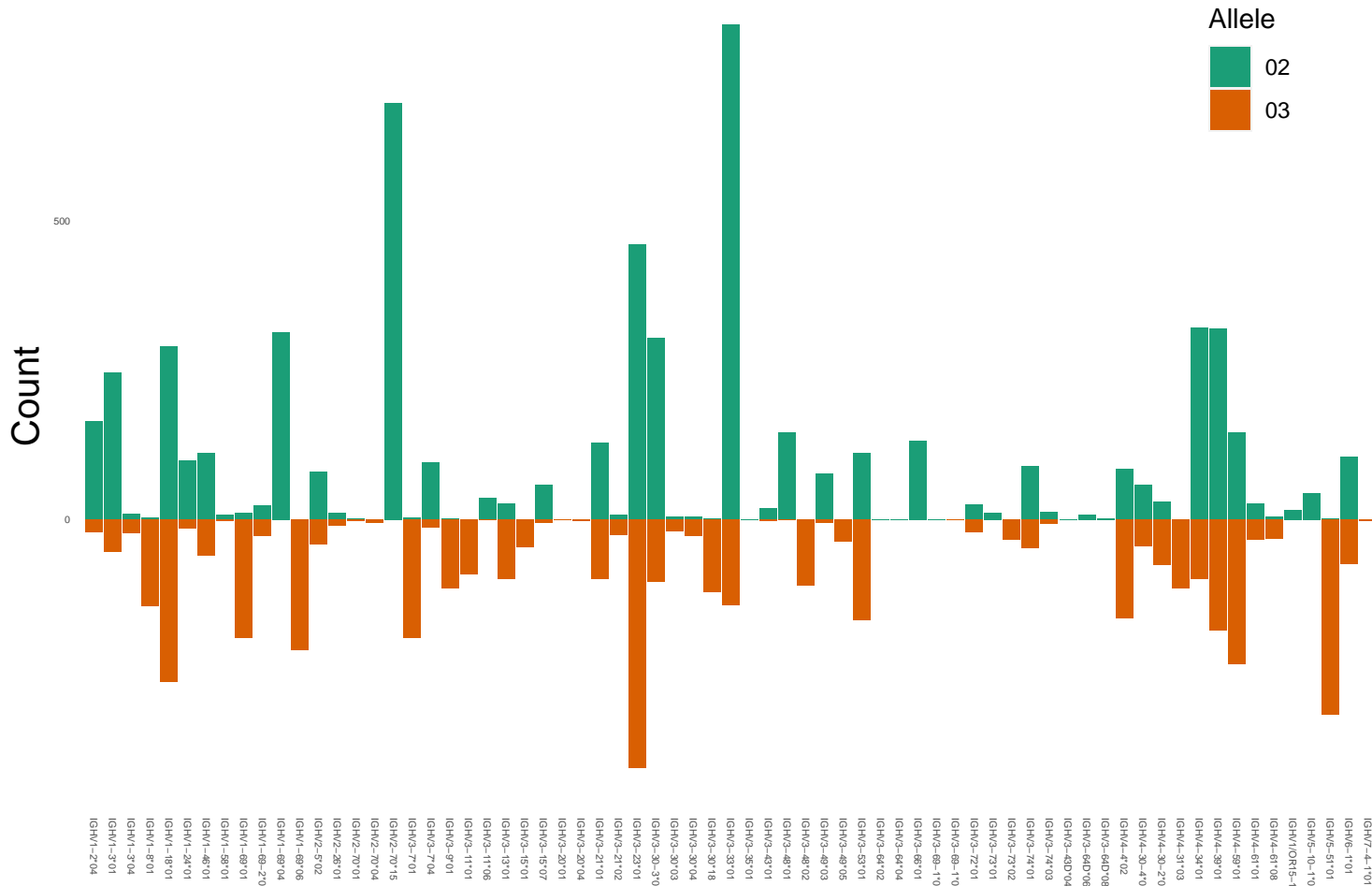
963 sequences assigned
29 (3%) exact matches, in which:
27 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.