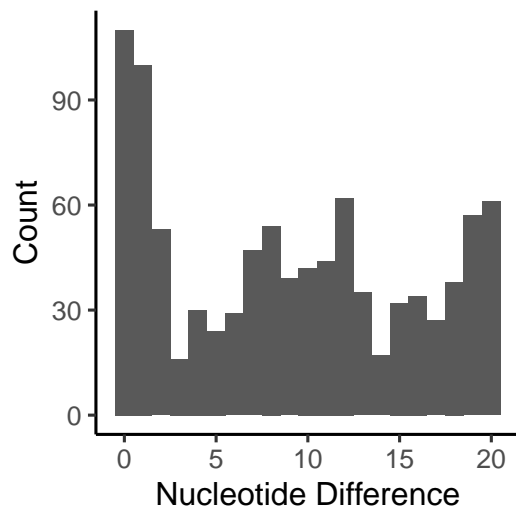


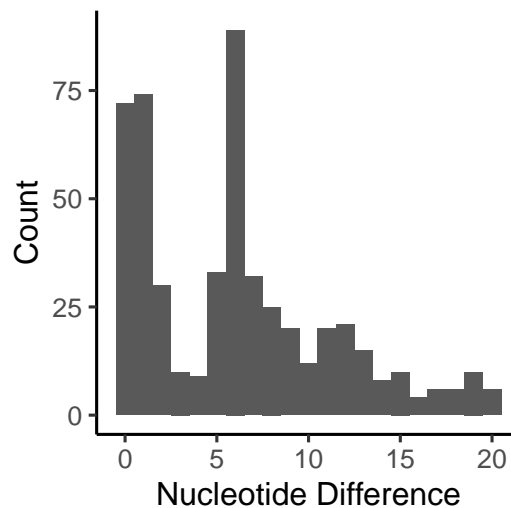
IGHV1-2*02

1432 sequences assigned
110 (7.7%) exact matches, in which:
92 unique CDR3
5 unique J



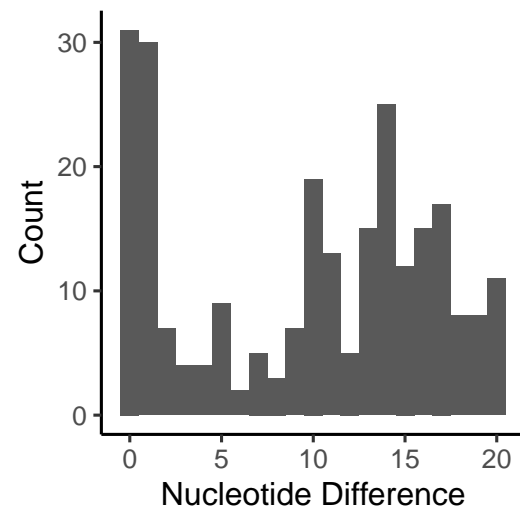
IGHV1-8*03

578 sequences assigned
72 (12.5%) exact matches, in which:
57 unique CDR3
6 unique J



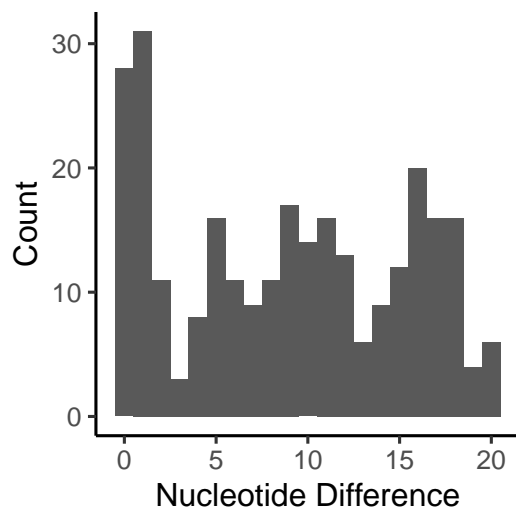
IGHV1-24*01

372 sequences assigned
31 (8.3%) exact matches, in which:
29 unique CDR3
4 unique J



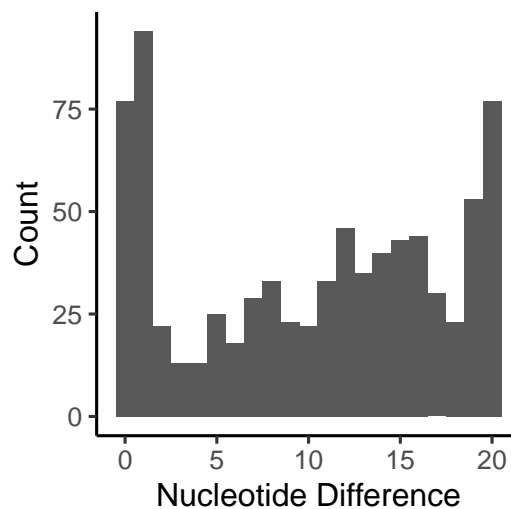
IGHV1-3*01

529 sequences assigned
28 (5.3%) exact matches, in which:
20 unique CDR3
4 unique J



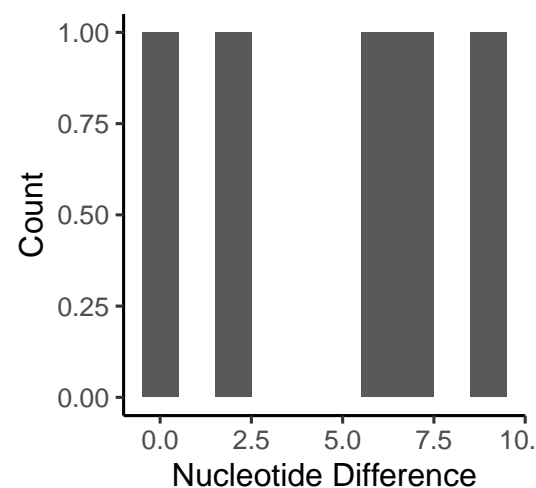
IGHV1-18*01

1282 sequences assigned
77 (6%) exact matches, in which:
68 unique CDR3
6 unique J



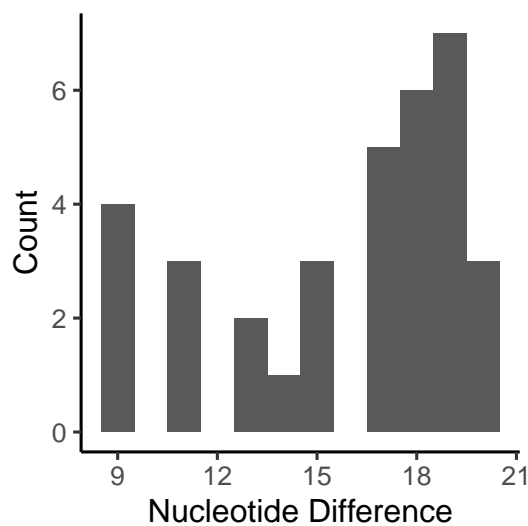
IGHV1-45*02

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



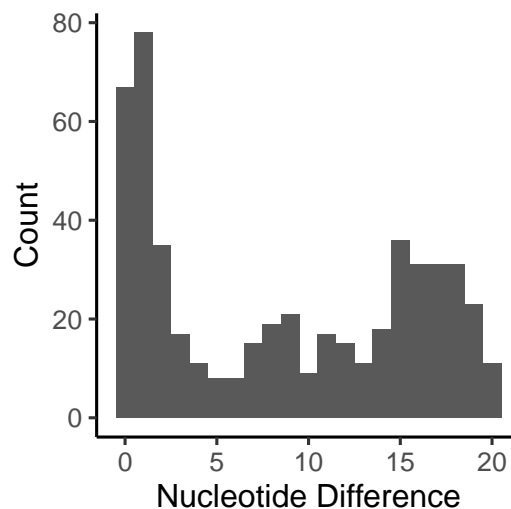
IGHV1-3*04

95 sequences assigned
No exact matches.



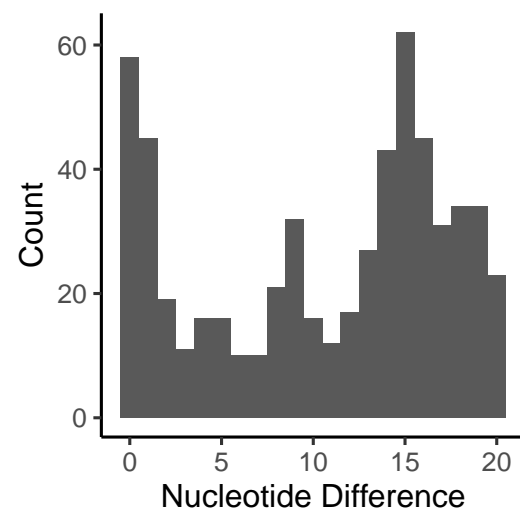
IGHV1-18*04

912 sequences assigned
67 (7.3%) exact matches, in which:
50 unique CDR3
6 unique J



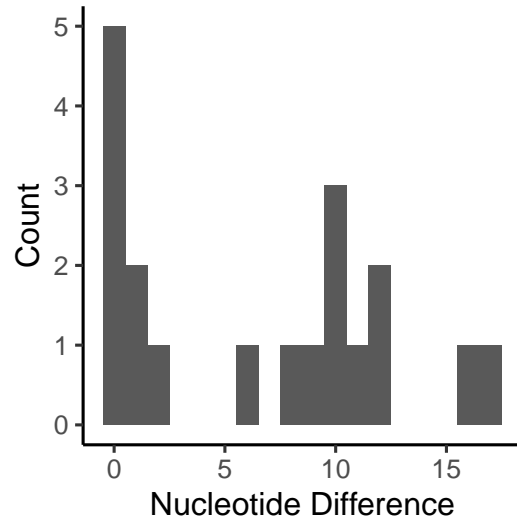
IGHV1-46*01

814 sequences assigned
58 (7.1%) exact matches, in which:
49 unique CDR3
6 unique J



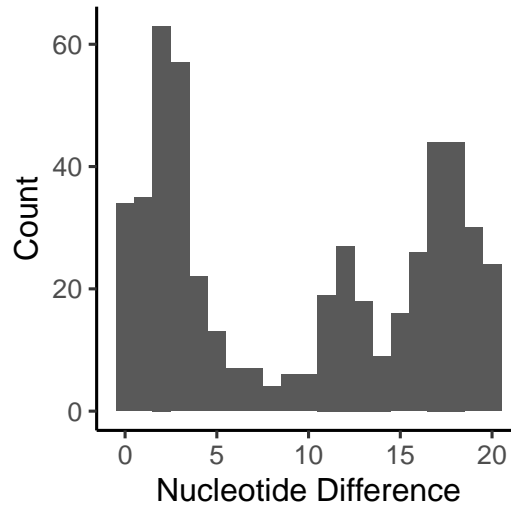
IGHV1-58*02

46 sequences assigned
5 (10.9%) exact matches, in which:
4 unique CDR3
3 unique J



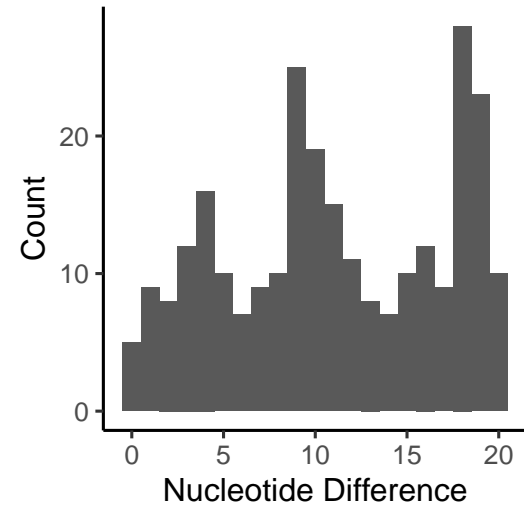
IGHV1-69*10

987 sequences assigned
34 (3.4%) exact matches, in which:
26 unique CDR3
5 unique J



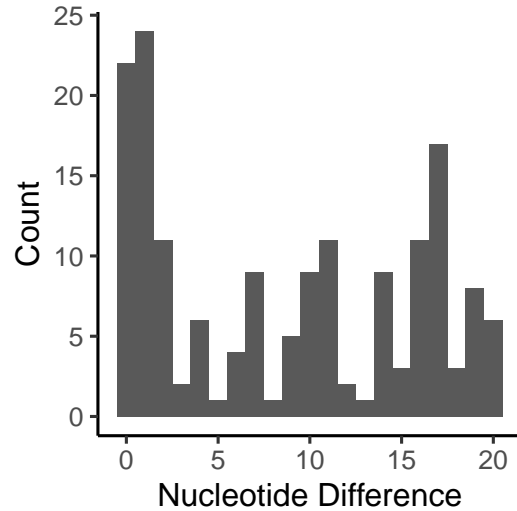
IGHV2-5*02

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



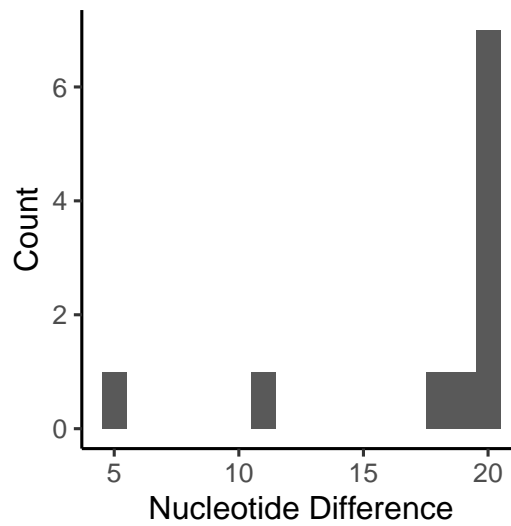
IGHV1-69-2*01

357 sequences assigned
22 (6.2%) exact matches, in which:
20 unique CDR3
5 unique J



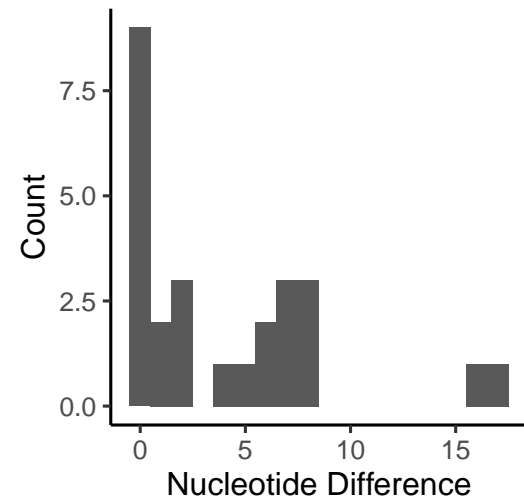
IGHV1-69D*01

47 sequences assigned
No exact matches.



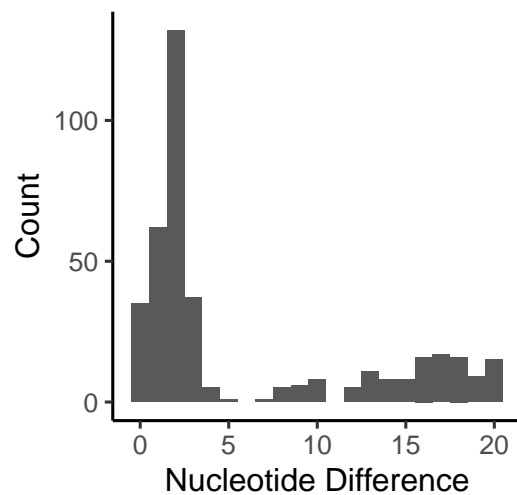
IGHV2-26*01

26 sequences assigned
9 (34.6%) exact matches, in which:
8 unique CDR3
3 unique J



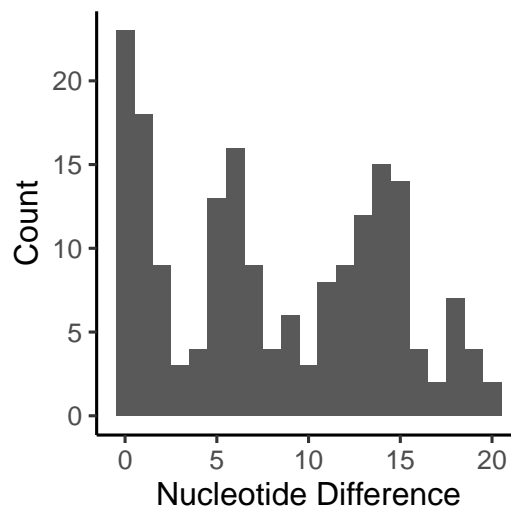
IGHV1-69*09

760 sequences assigned
35 (4.6%) exact matches, in which:
35 unique CDR3
4 unique J



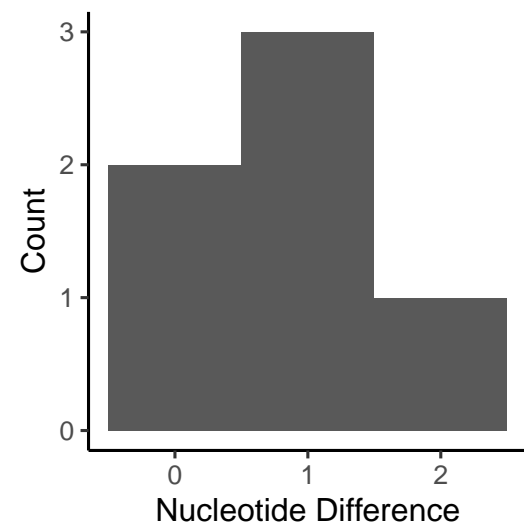
IGHV2-5*01

218 sequences assigned
23 (10.6%) exact matches, in which:
21 unique CDR3
5 unique J



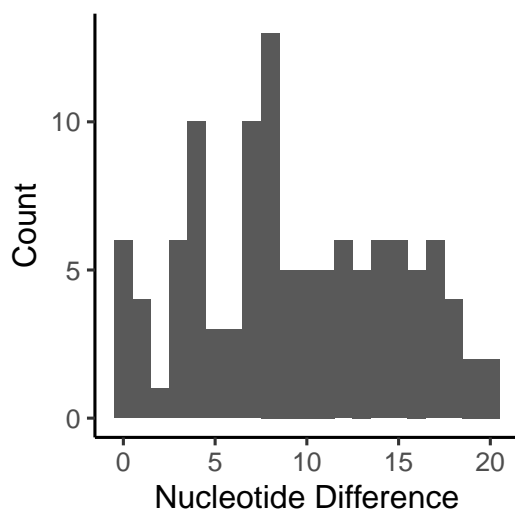
IGHV2-26*04

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



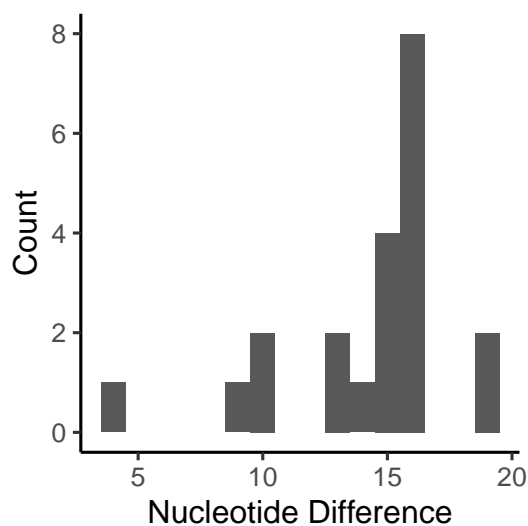
IGHV2-70*15

131 sequences assigned
6 (4.6%) exact matches, in which:
6 unique CDR3
2 unique J



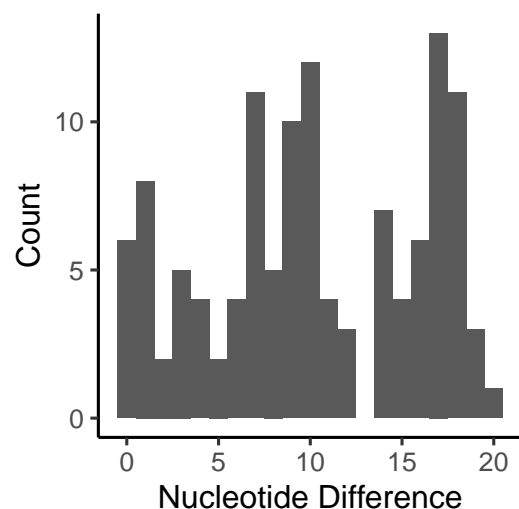
IGHV3-9*01

44 sequences assigned
No exact matches.



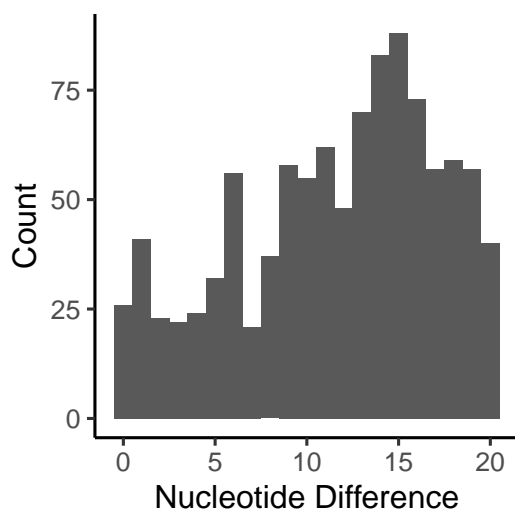
IGHV3-11*06

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



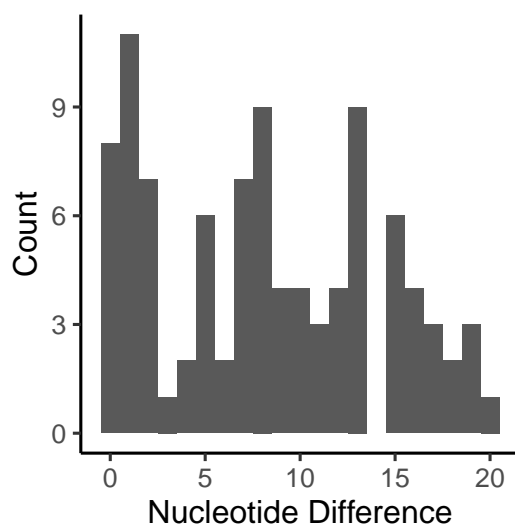
IGHV3-7*01

1277 sequences assigned
26 (2%) exact matches, in which:
22 unique CDR3
4 unique J



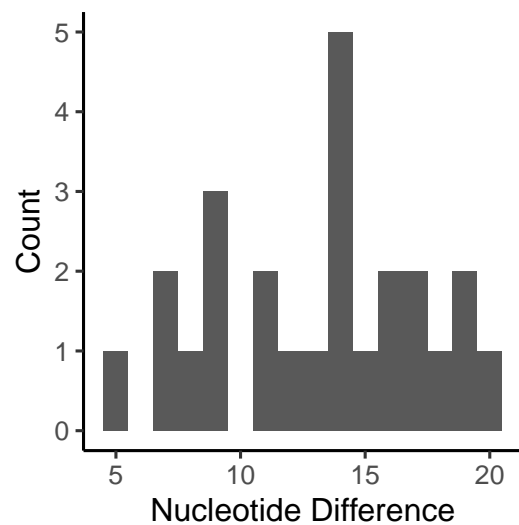
IGHV3-9*03

104 sequences assigned
8 (7.7%) exact matches, in which:
6 unique CDR3
4 unique J



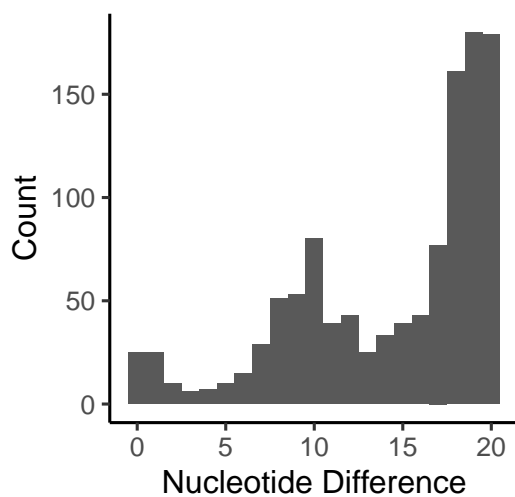
IGHV3-13*01

27 sequences assigned
No exact matches.



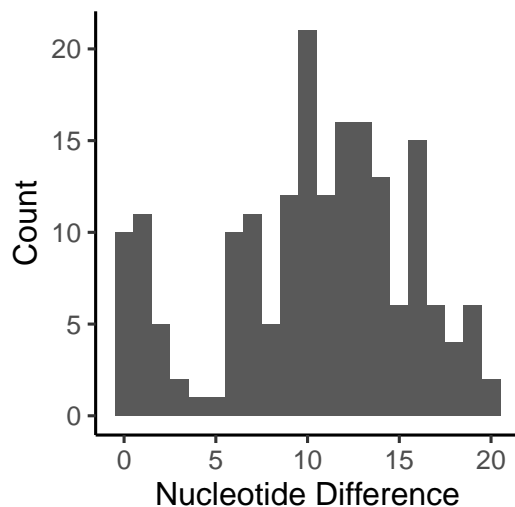
IGHV3-7*03

1726 sequences assigned
25 (1.4%) exact matches, in which:
18 unique CDR3
5 unique J



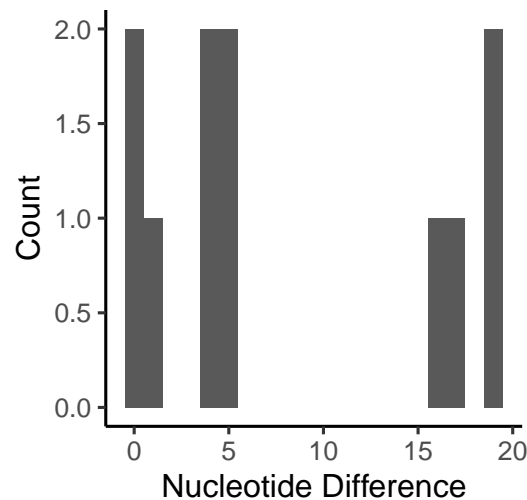
IGHV3-11*04

235 sequences assigned
10 (4.3%) exact matches, in which:
10 unique CDR3
3 unique J



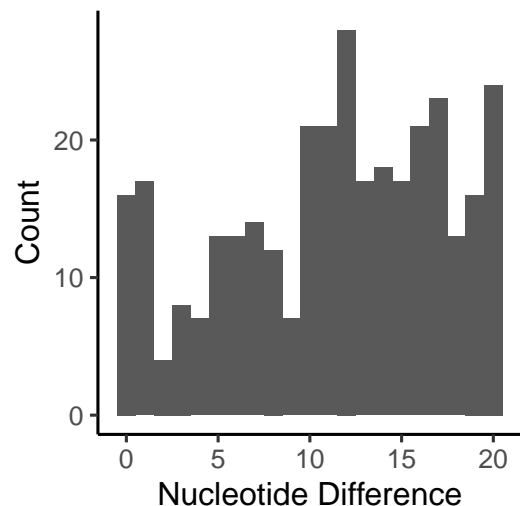
IGHV3-13*05

17 sequences assigned
2 (11.8%) exact matches, in which:
2 unique CDR3
2 unique J



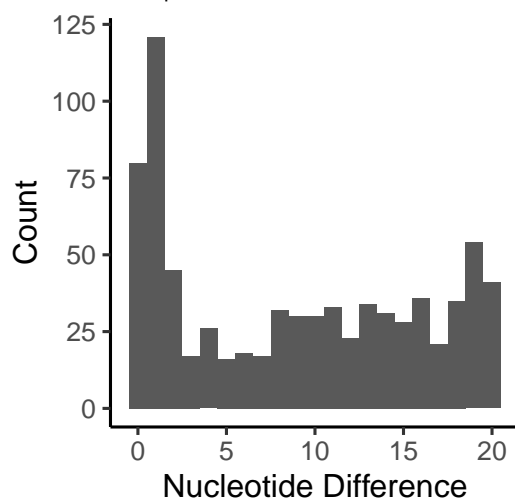
IGHV3-15*01

513 sequences assigned
16 (3.1%) exact matches, in which:
15 unique CDR3
5 unique J



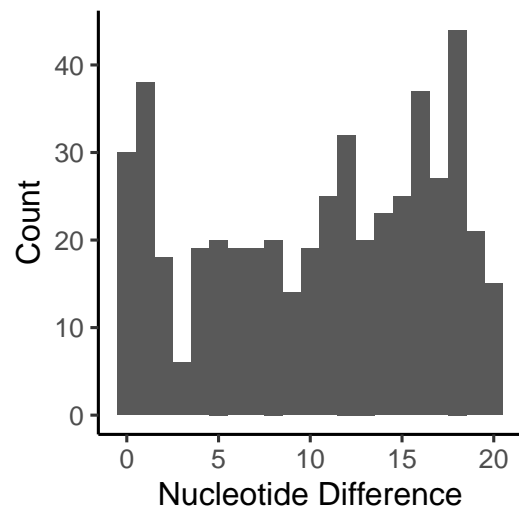
IGHV3-23*04

1260 sequences assigned
80 (6.3%) exact matches, in which:
61 unique CDR3
4 unique J



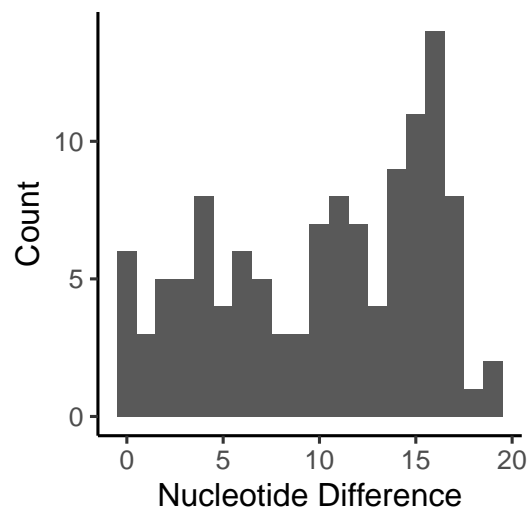
IGHV3-33*08

720 sequences assigned
30 (4.2%) exact matches, in which:
25 unique CDR3
5 unique J



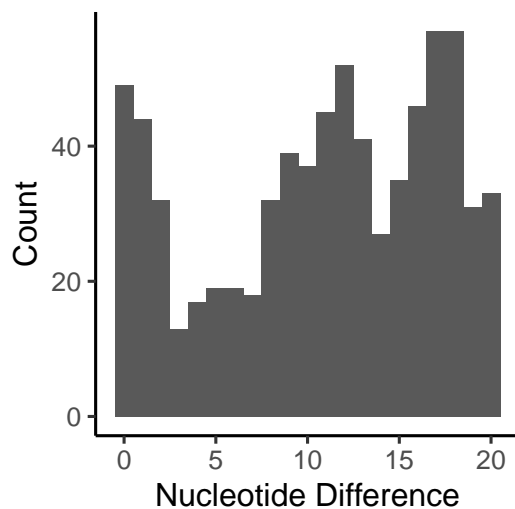
IGHV3-20*04

153 sequences assigned
6 (3.9%) exact matches, in which:
6 unique CDR3
3 unique J



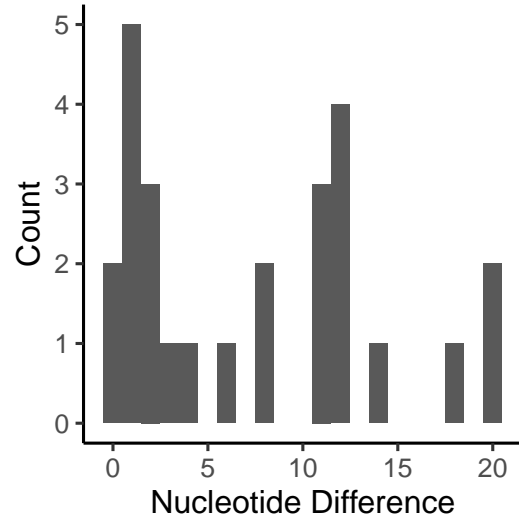
IGHV3-30-3*01

1050 sequences assigned
49 (4.7%) exact matches, in which:
40 unique CDR3
4 unique J



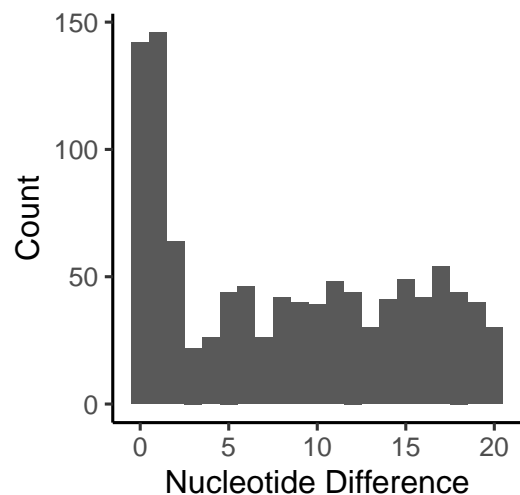
IGHV3-43*01

64 sequences assigned
2 (3.1%) exact matches, in which:
2 unique CDR3
2 unique J



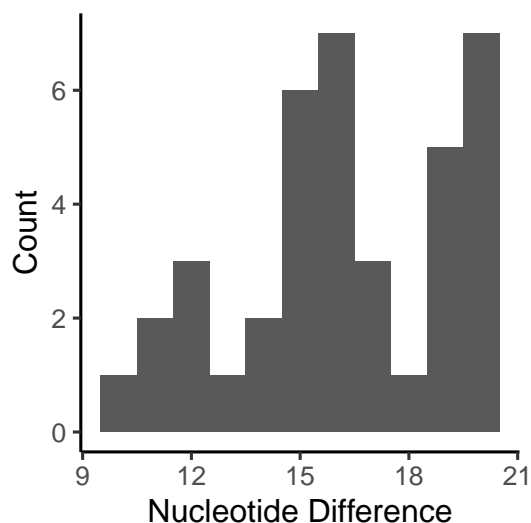
IGHV3-21*01

1365 sequences assigned
142 (10.4%) exact matches, in which:
98 unique CDR3
7 unique J



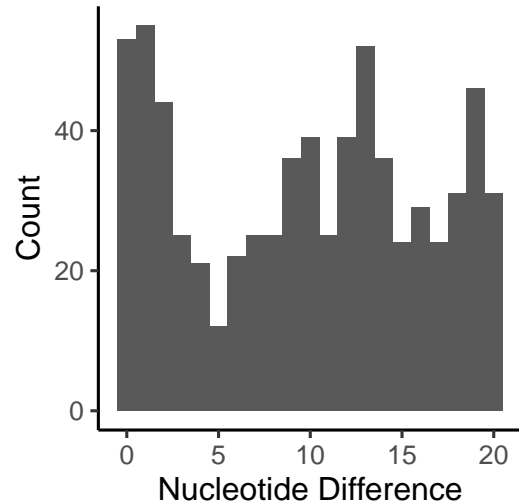
IGHV3-30*04

126 sequences assigned
No exact matches.



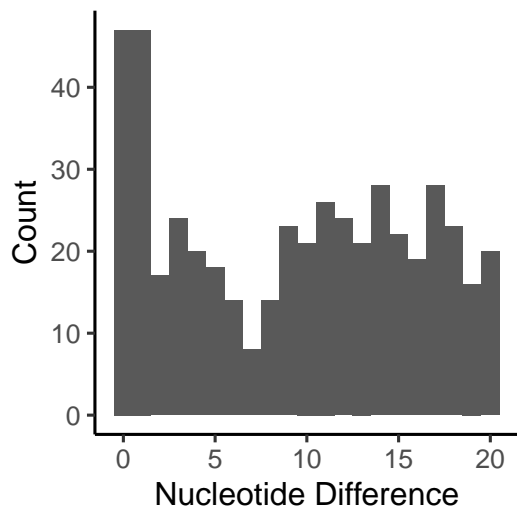
IGHV3-48*03

1022 sequences assigned
53 (5.2%) exact matches, in which:
42 unique CDR3
5 unique J



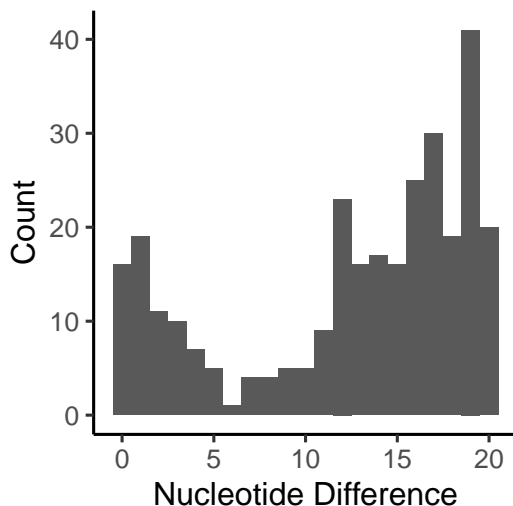
IGHV3-48*04

762 sequences assigned
47 (6.2%) exact matches, in which:
39 unique CDR3
6 unique J



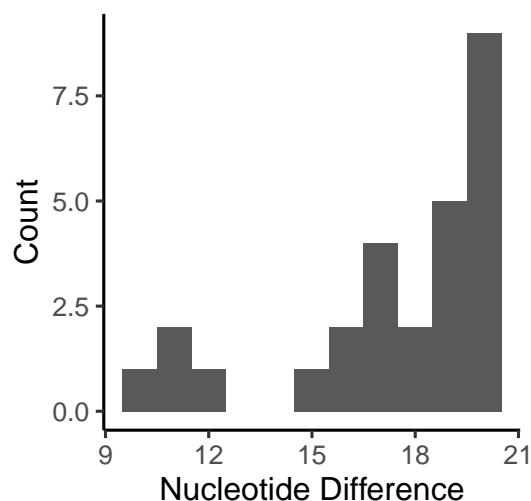
IGHV3-53*02

506 sequences assigned
16 (3.2%) exact matches, in which:
16 unique CDR3
3 unique J



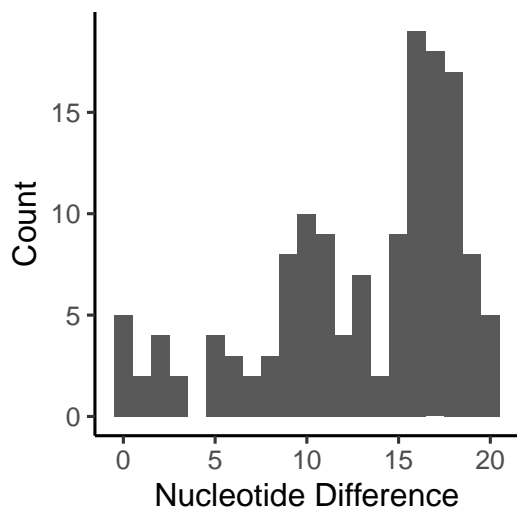
IGHV3-64*07

38 sequences assigned
No exact matches.



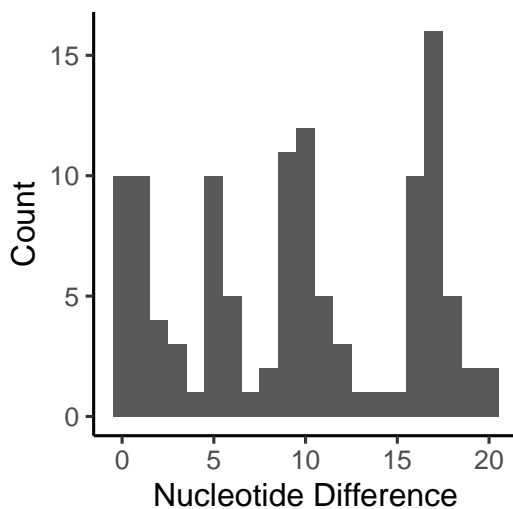
IGHV3-49*03

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



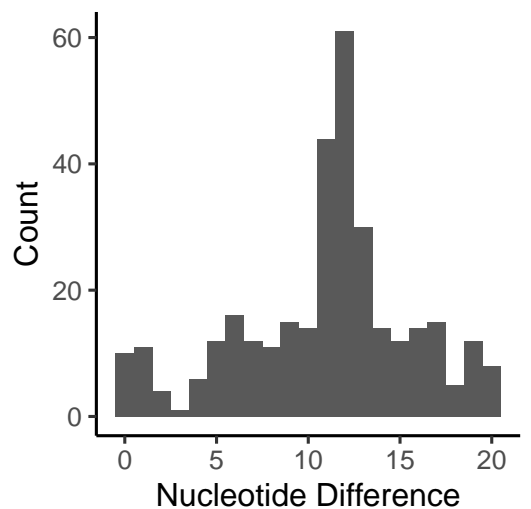
IGHV3-53*04

146 sequences assigned
10 (6.8%) exact matches, in which:
10 unique CDR3
5 unique J



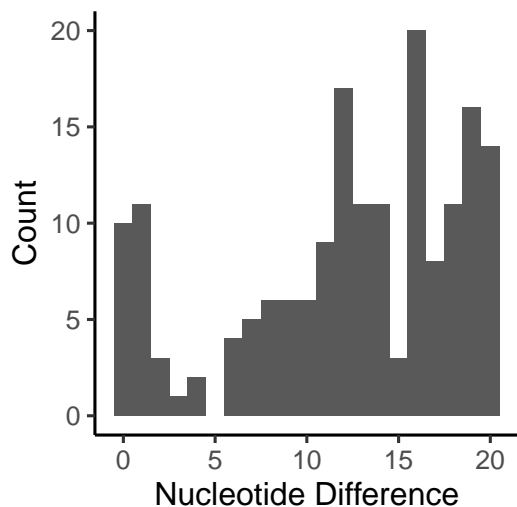
IGHV3-66*01

501 sequences assigned
10 (2%) exact matches, in which:
8 unique CDR3
3 unique J



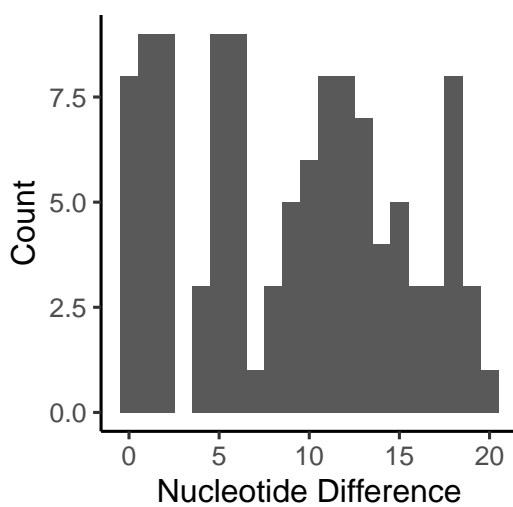
IGHV3-49*04

221 sequences assigned
10 (4.5%) exact matches, in which:
7 unique CDR3
3 unique J



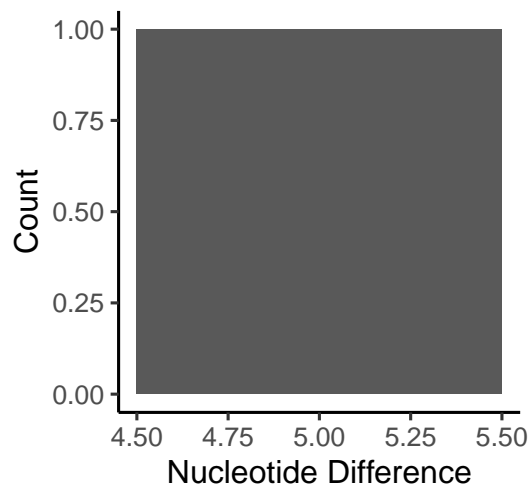
IGHV3-64*01

152 sequences assigned
8 (5.3%) exact matches, in which:
6 unique CDR3
1 unique J



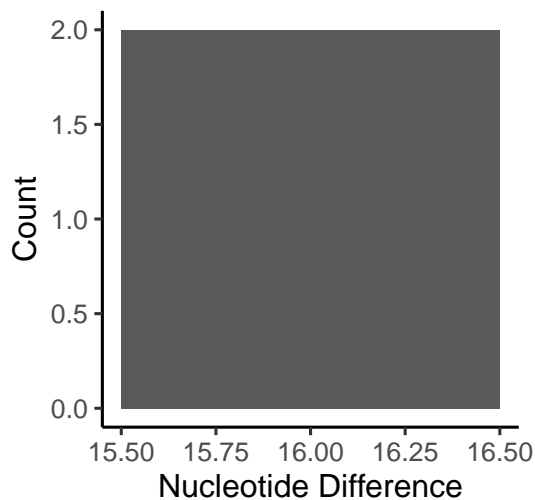
IGHV3-69-1*01

5 sequences assigned
No exact matches.



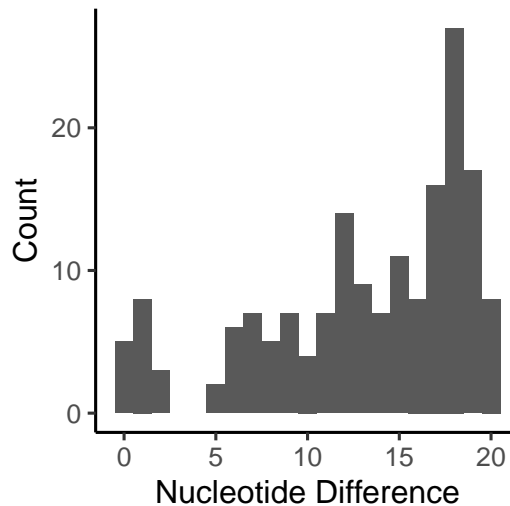
IGHV3-69-1*02

2 sequences assigned
No exact matches.



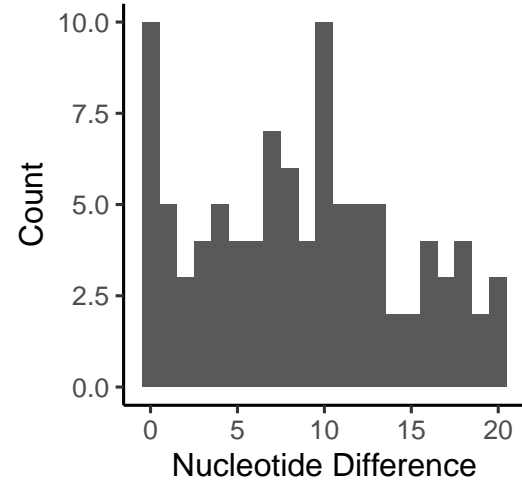
IGHV3-73*02

232 sequences assigned
5 (2.2%) exact matches, in which:
5 unique CDR3
3 unique J



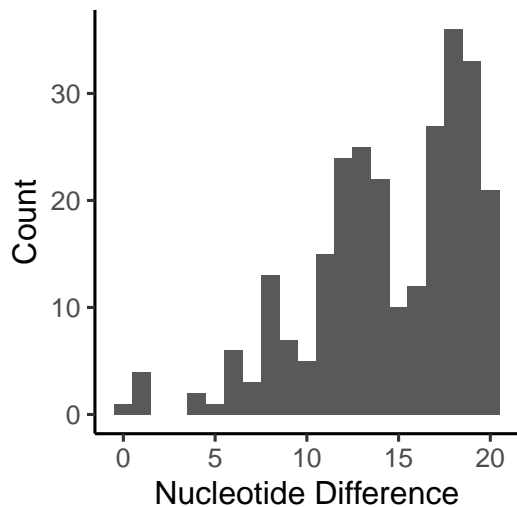
IGHV3-64D*06

131 sequences assigned
10 (7.6%) exact matches, in which:
9 unique CDR3
2 unique J



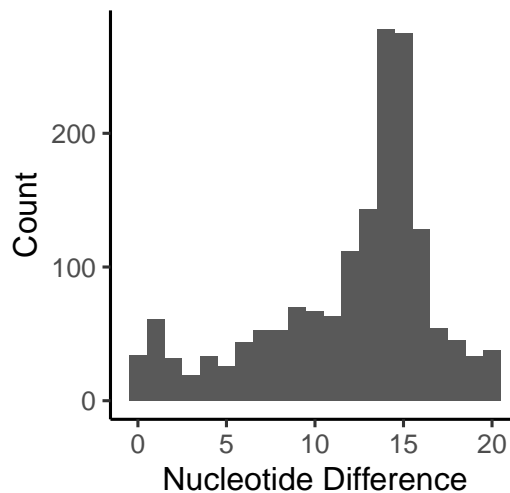
IGHV3-72*01

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



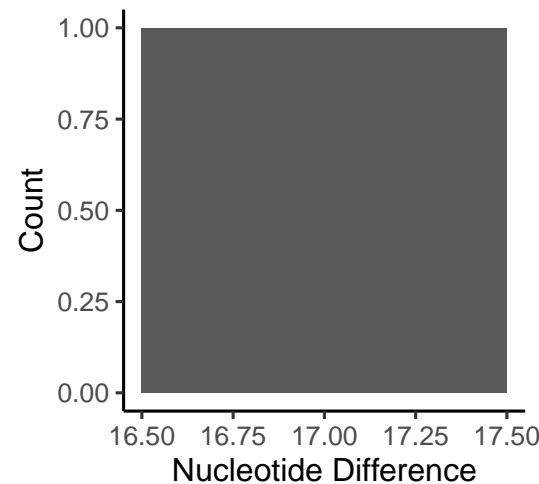
IGHV3-74*01

2191 sequences assigned
34 (1.6%) exact matches, in which:
26 unique CDR3
3 unique J



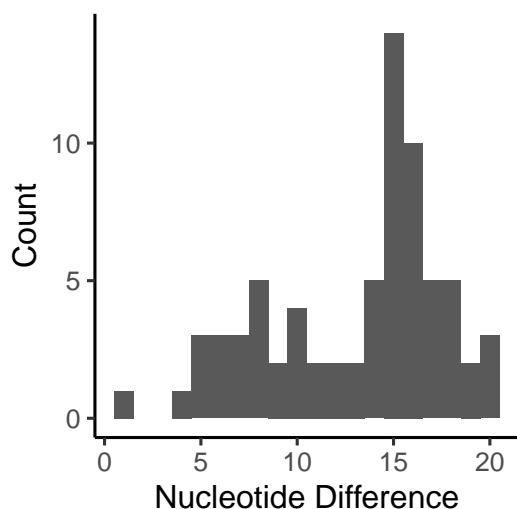
IGHV3-NL1*01

2 sequences assigned
No exact matches.



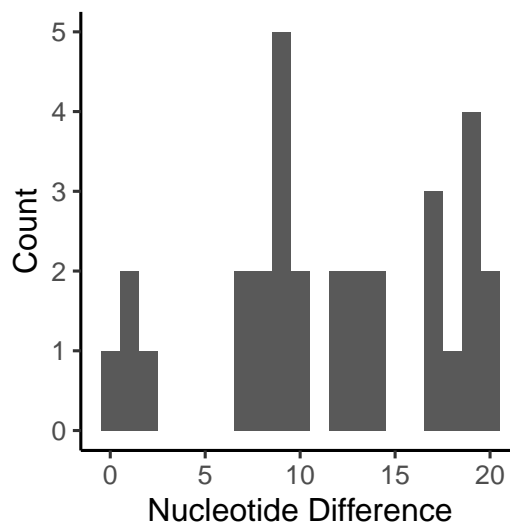
IGHV3-73*01

110 sequences assigned
No exact matches.



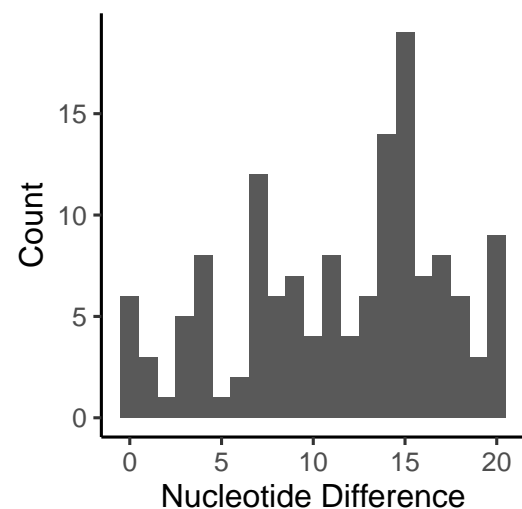
IGHV3-43D*04

57 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



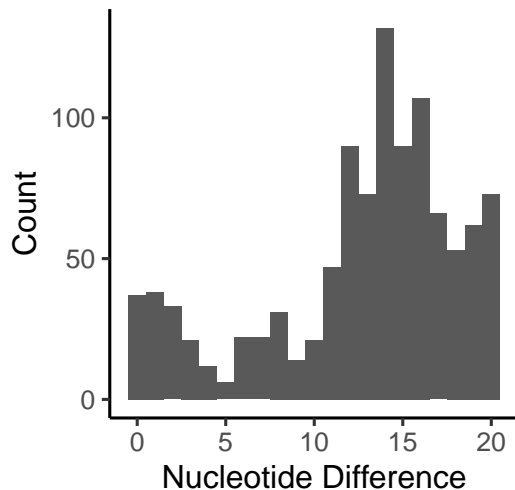
IGHV4-4*02

273 sequences assigned
6 (2.2%) exact matches, in which:
5 unique CDR3
4 unique J



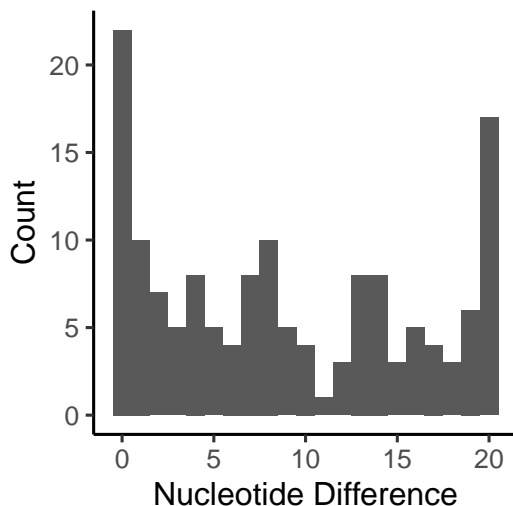
IGHV4-4*07

1502 sequences assigned
37 (2.5%) exact matches, in which:
32 unique CDR3
5 unique J



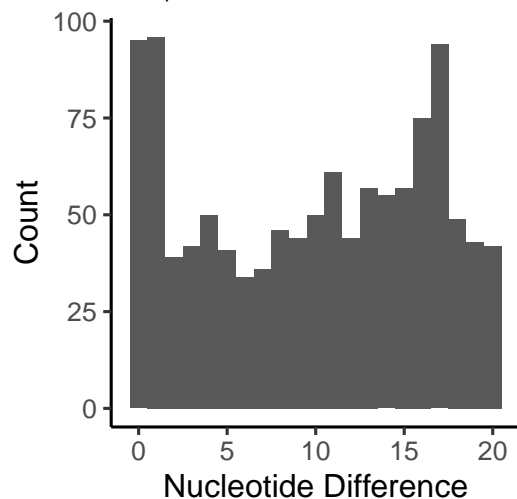
IGHV4-30-4*08

244 sequences assigned
22 (9%) exact matches, in which:
21 unique CDR3
3 unique J



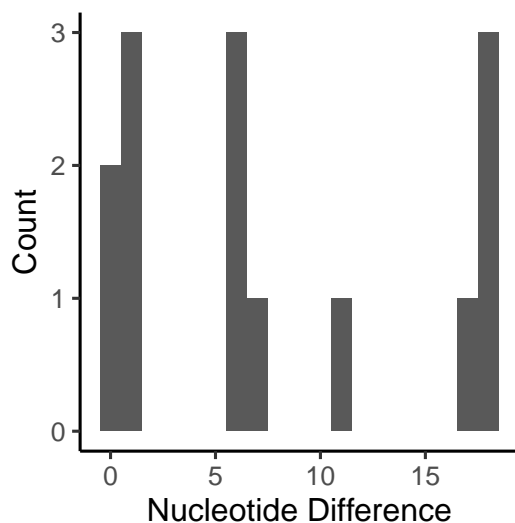
IGHV4-38-2*01

1845 sequences assigned
95 (5.1%) exact matches, in which:
74 unique CDR3
5 unique J



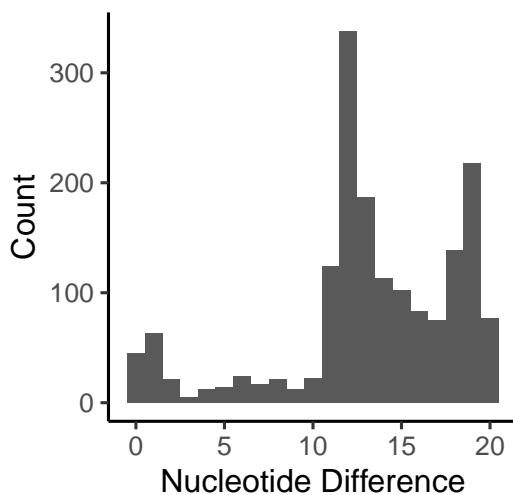
IGHV4-28*07

14 sequences assigned
2 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



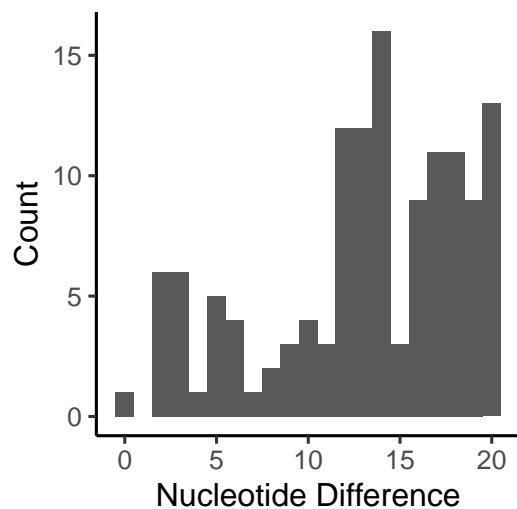
IGHV4-34*01

2695 sequences assigned
45 (1.7%) exact matches, in which:
37 unique CDR3
6 unique J



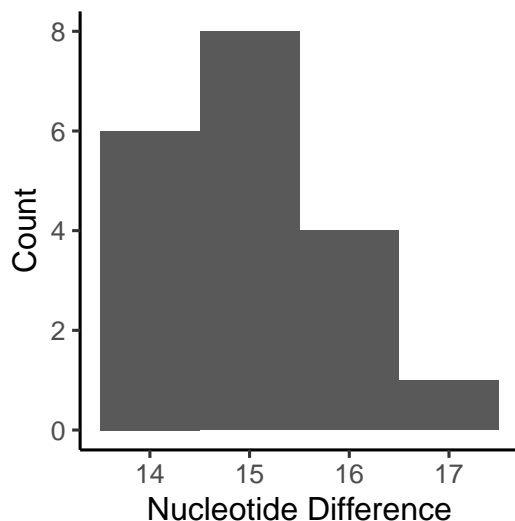
IGHV4-38-2*02

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



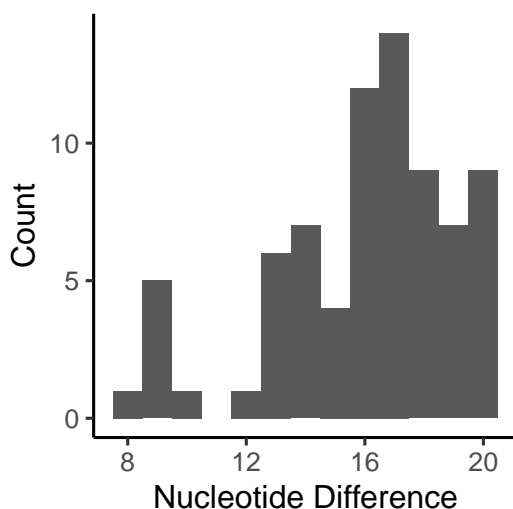
IGHV4-30-4*01

53 sequences assigned
No exact matches.



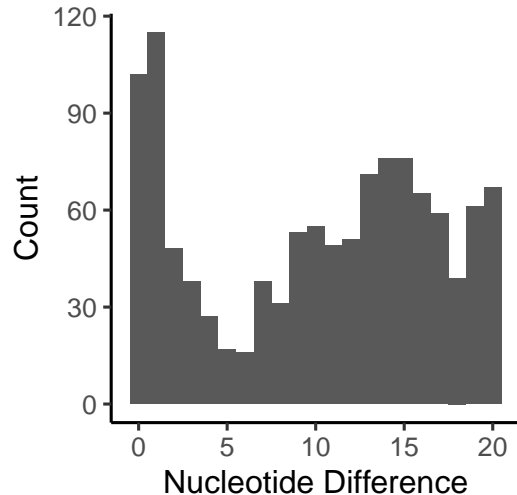
IGHV4-34*02

263 sequences assigned
No exact matches.



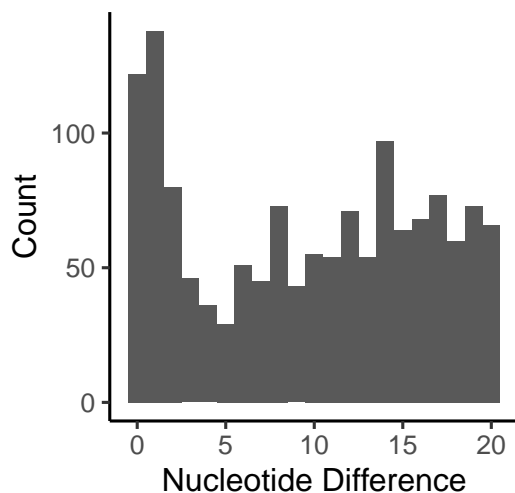
IGHV4-39*01

1965 sequences assigned
102 (5.2%) exact matches, in which:
84 unique CDR3
5 unique J



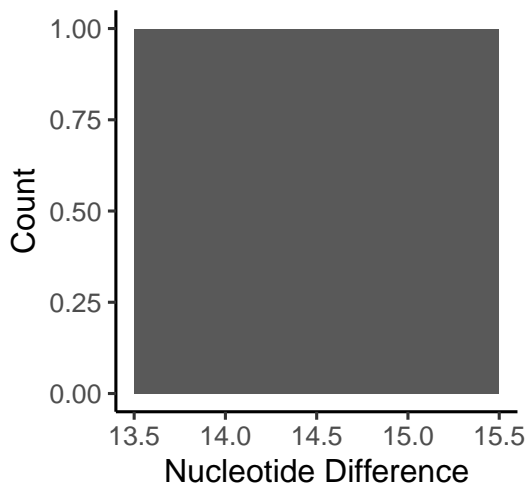
IGHV4-39*07

2235 sequences assigned
122 (5.5%) exact matches, in which:
105 unique CDR3
6 unique J



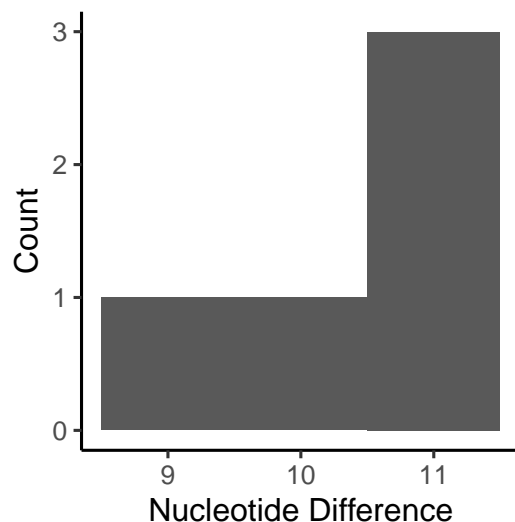
IGHV4-61*01

6 sequences assigned
No exact matches.



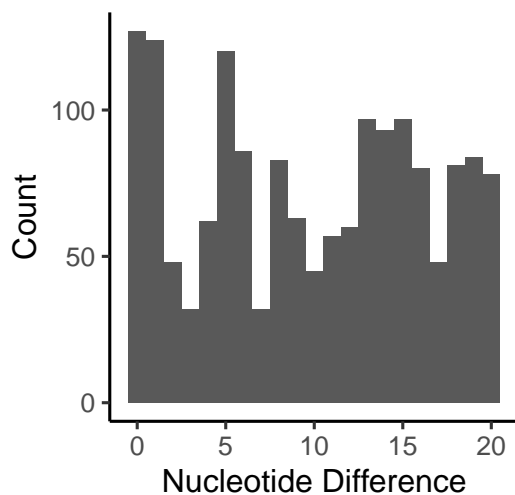
IGHV4-61*08

9 sequences assigned
No exact matches.



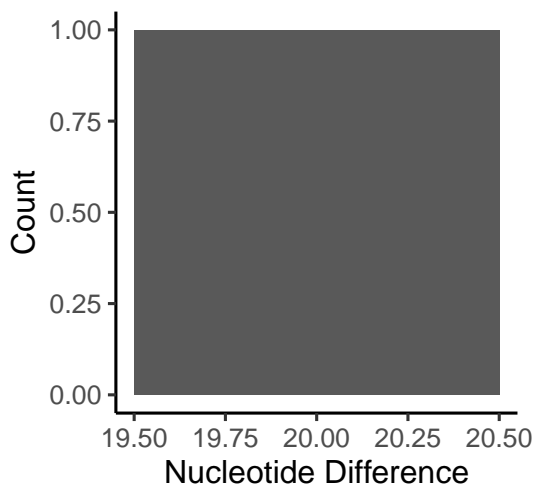
IGHV4-59*01

2256 sequences assigned
127 (5.6%) exact matches, in which:
93 unique CDR3
7 unique J



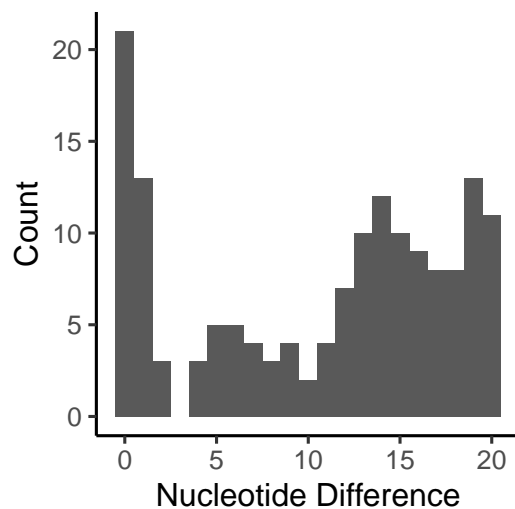
IGHV4-61*05

4 sequences assigned
No exact matches.



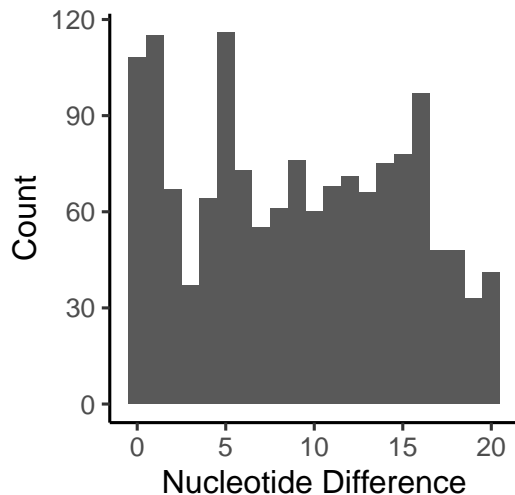
IGHV5-10-1*03

234 sequences assigned
21 (9%) exact matches, in which:
17 unique CDR3
5 unique J



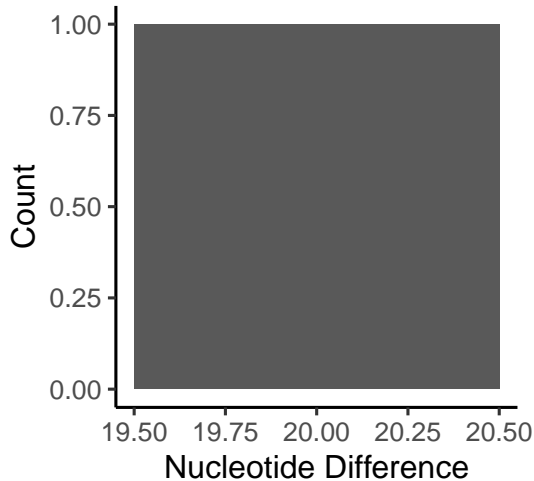
IGHV4-59*08

2122 sequences assigned
108 (5.1%) exact matches, in which:
82 unique CDR3
7 unique J



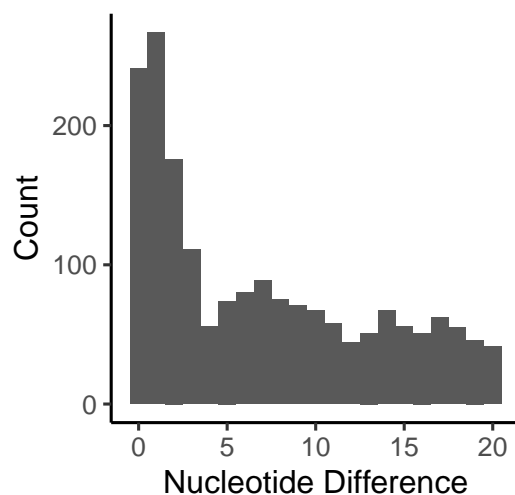
IGHV4-61*07

1 sequences assigned
No exact matches.



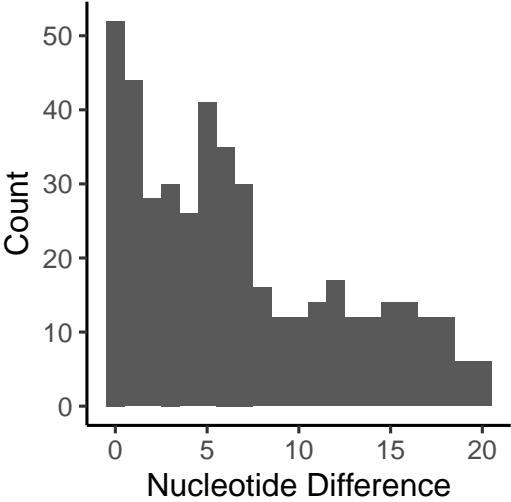
IGHV5-51*01

2272 sequences assigned
241 (10.6%) exact matches, in which:
176 unique CDR3
7 unique J



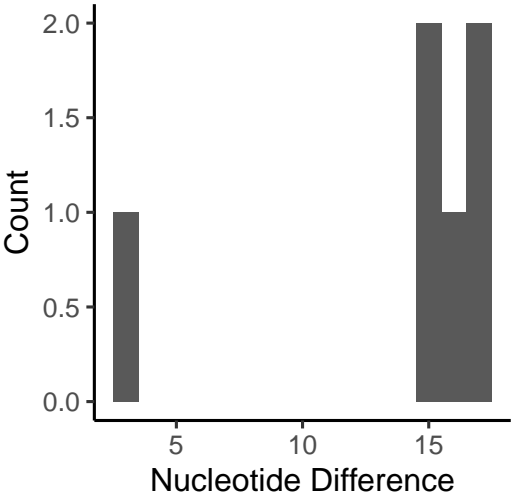
IGHV6-1*01

611 sequences assigned
52 (8.5%) exact matches, in which:
41 unique CDR3
6 unique J

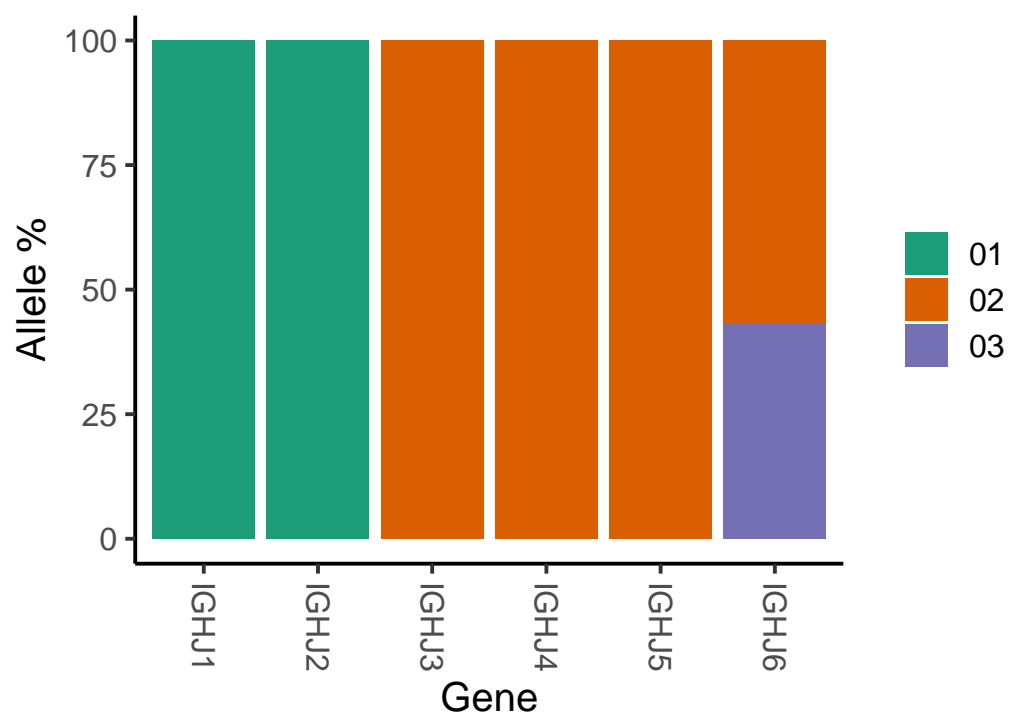


IGHV7-4-1*01

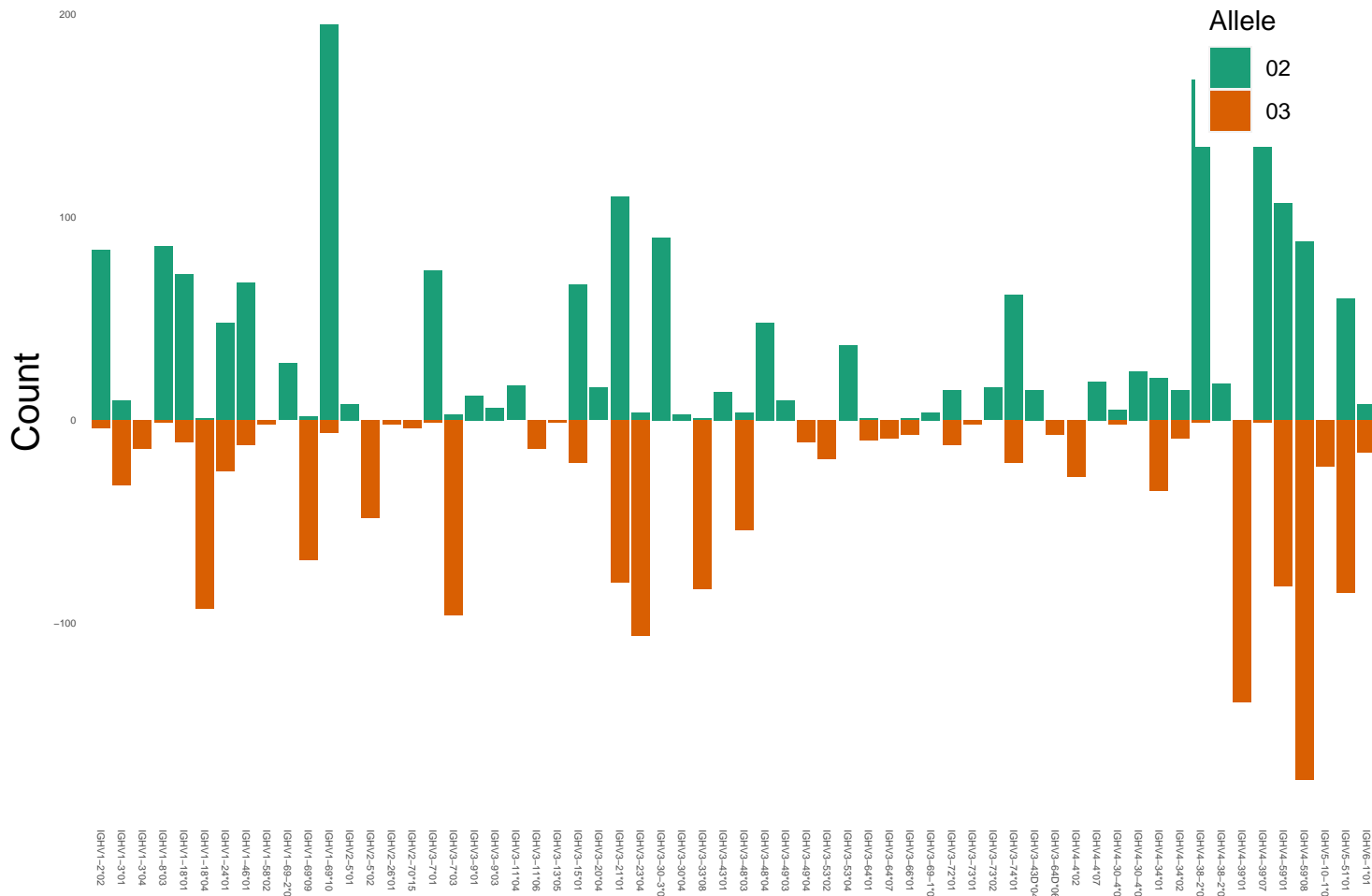
7 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.