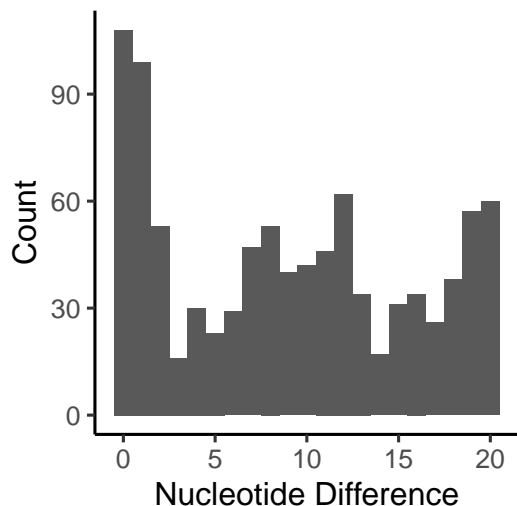


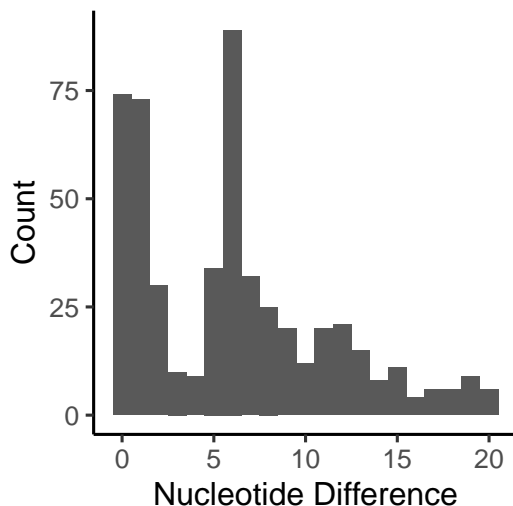
IGHV1-2*02

1427 sequences assigned
108 (7.6%) exact matches, in which:
91 unique CDR3
5 unique J



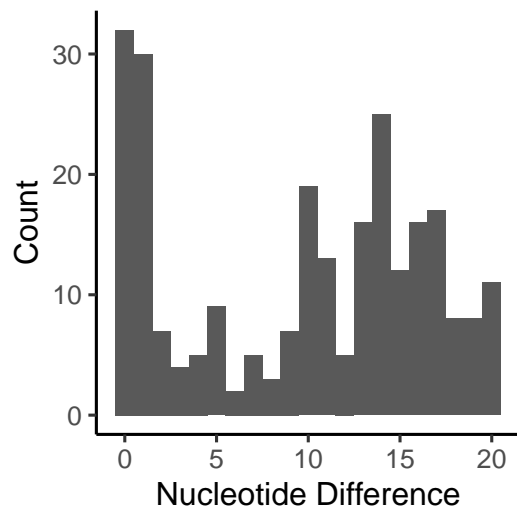
IGHV1-8*03

578 sequences assigned
74 (12.8%) exact matches, in which:
57 unique CDR3
6 unique J



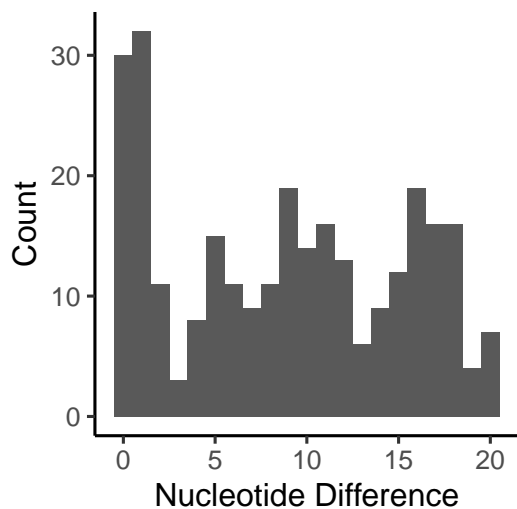
IGHV1-24*01

376 sequences assigned
32 (8.5%) exact matches, in which:
30 unique CDR3
4 unique J



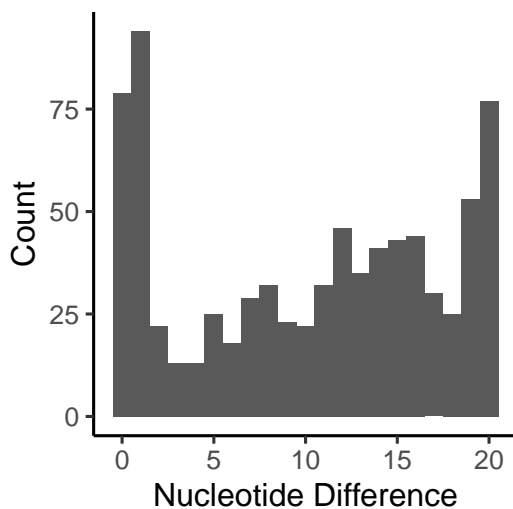
IGHV1-3*01

532 sequences assigned
30 (5.6%) exact matches, in which:
20 unique CDR3
4 unique J



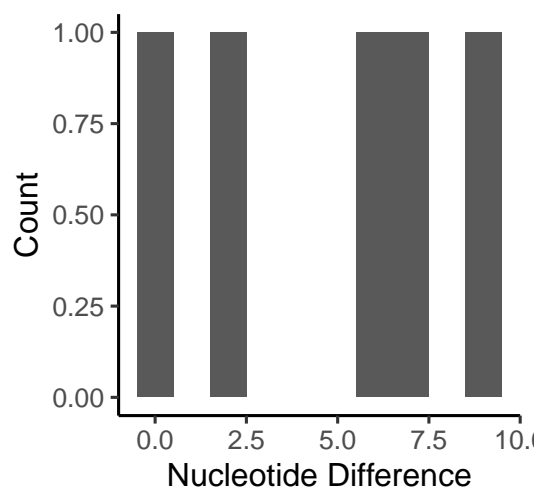
IGHV1-18*01

1284 sequences assigned
79 (6.2%) exact matches, in which:
69 unique CDR3
6 unique J



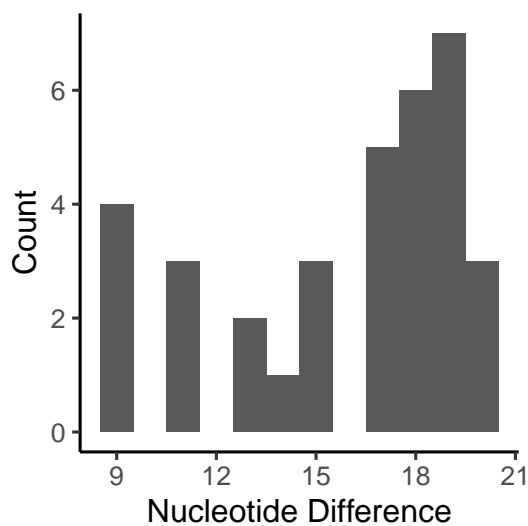
IGHV1-45*02

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



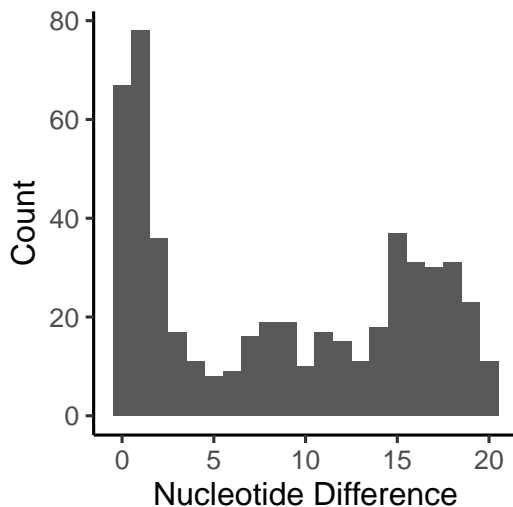
IGHV1-3*04

96 sequences assigned
No exact matches.



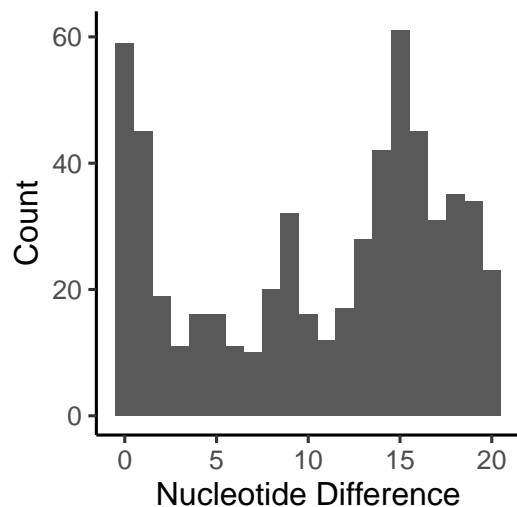
IGHV1-18*04

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



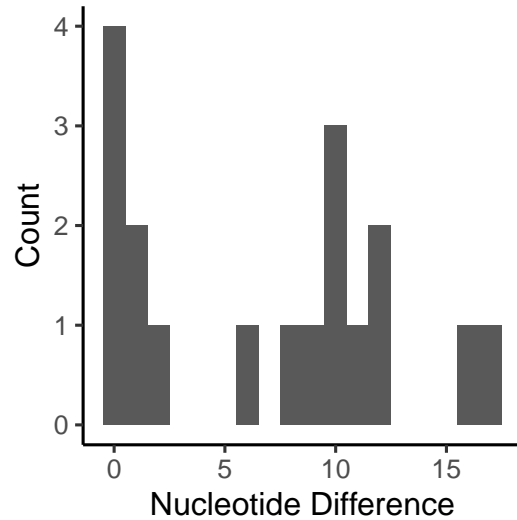
IGHV1-46*01

815 sequences assigned
59 (7.2%) exact matches, in which:
49 unique CDR3
6 unique J



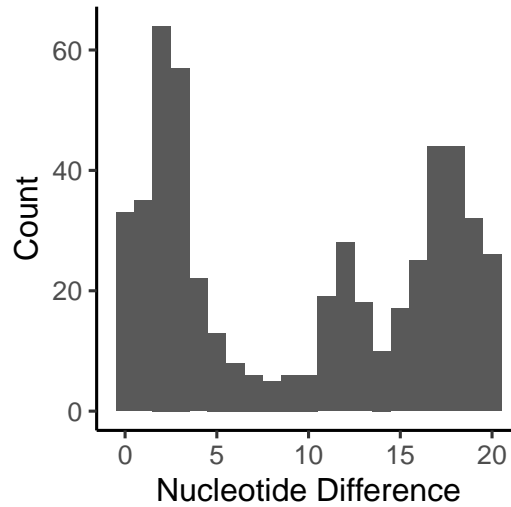
IGHV1-58*02

45 sequences assigned
4 (8.9%) exact matches, in which:
3 unique CDR3
2 unique J



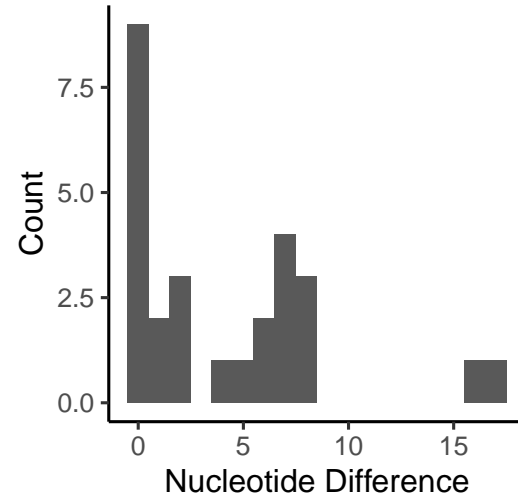
IGHV1-69*10

1056 sequences assigned
33 (3.1%) exact matches, in which:
26 unique CDR3
5 unique J



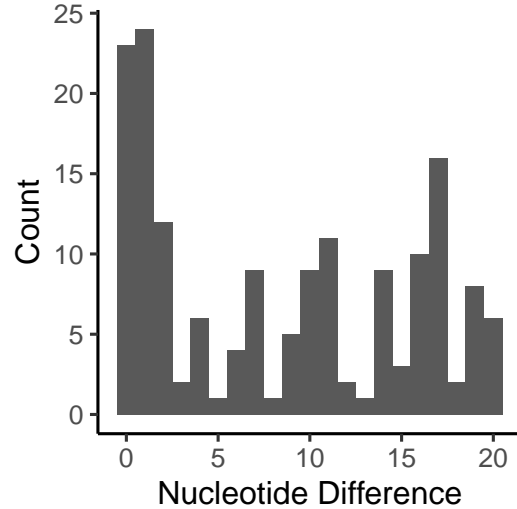
IGHV2-26*01

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



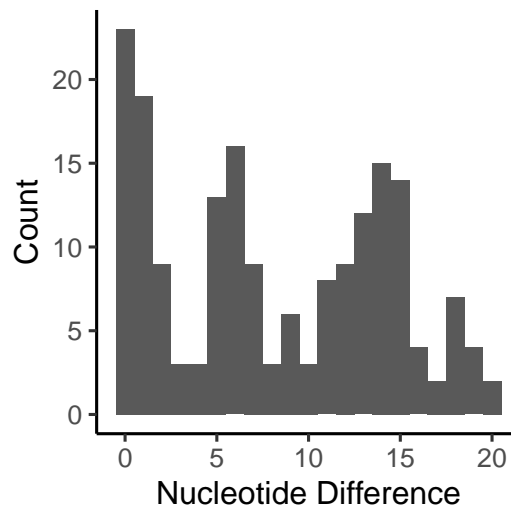
IGHV1-69-2*01

354 sequences assigned
23 (6.5%) exact matches, in which:
21 unique CDR3
5 unique J



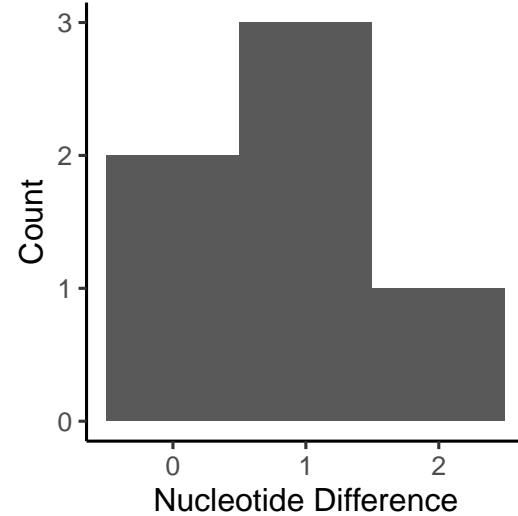
IGHV2-5*01

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



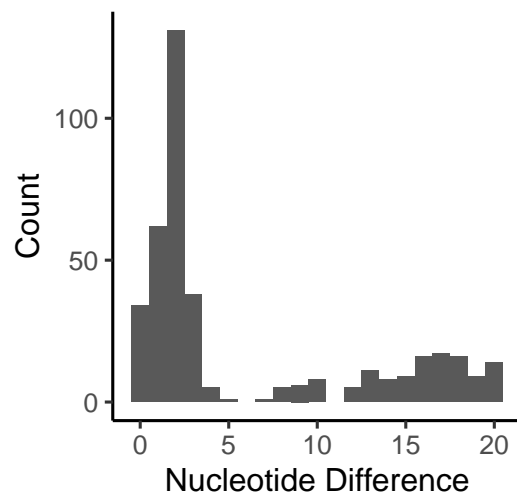
IGHV2-26*04

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



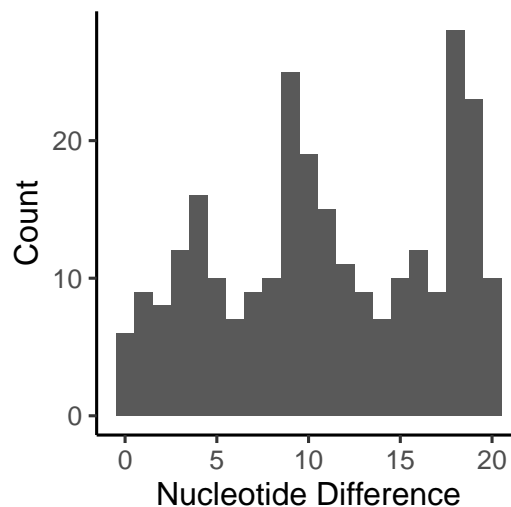
IGHV1-69*09

772 sequences assigned
34 (4.4%) exact matches, in which:
34 unique CDR3
4 unique J



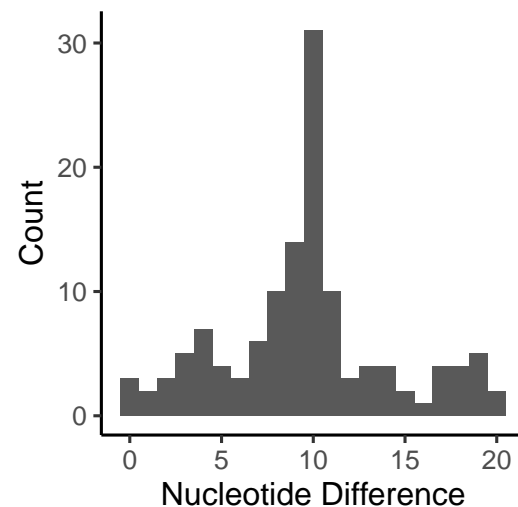
IGHV2-5*02

380 sequences assigned
6 (1.6%) exact matches, in which:
5 unique CDR3
3 unique J



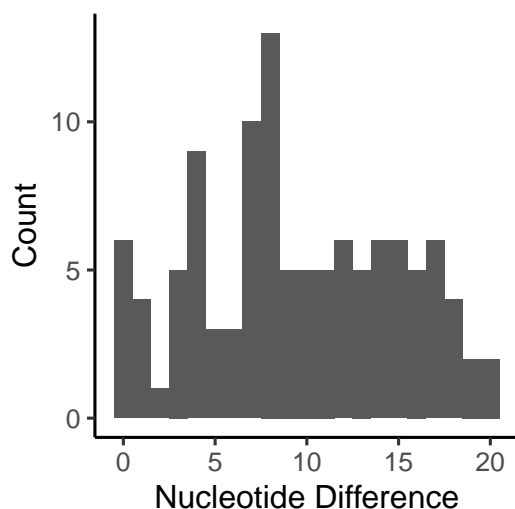
IGHV2-70*04

140 sequences assigned
3 (2.1%) exact matches, in which:
3 unique CDR3
1 unique J



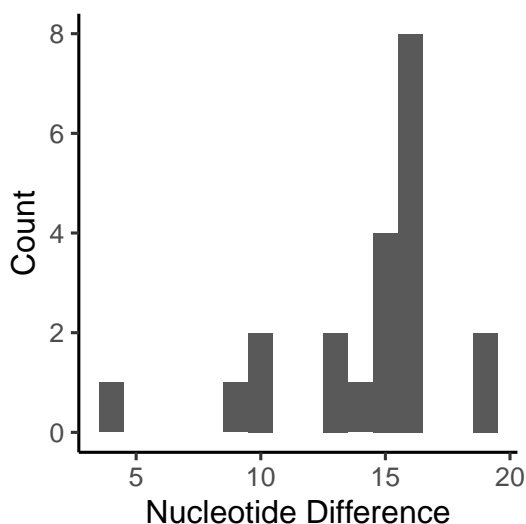
IGHV2-70*15

129 sequences assigned
6 (4.7%) exact matches, in which:
6 unique CDR3
2 unique J



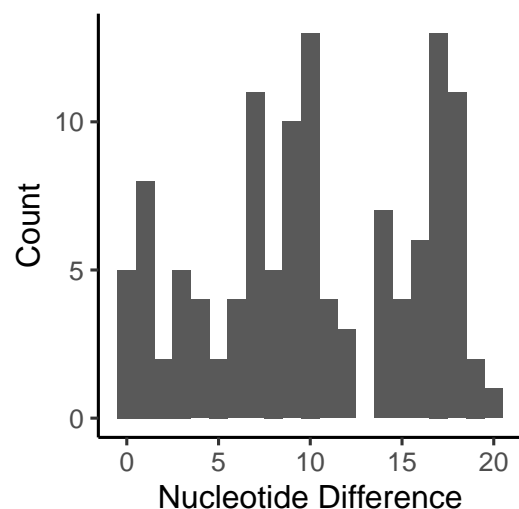
IGHV3-9*01

45 sequences assigned
No exact matches.



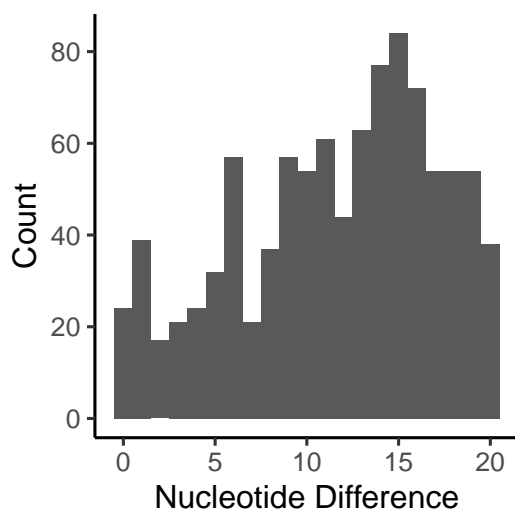
IGHV3-11*06

189 sequences assigned
5 (2.6%) exact matches, in which:
5 unique CDR3
1 unique J



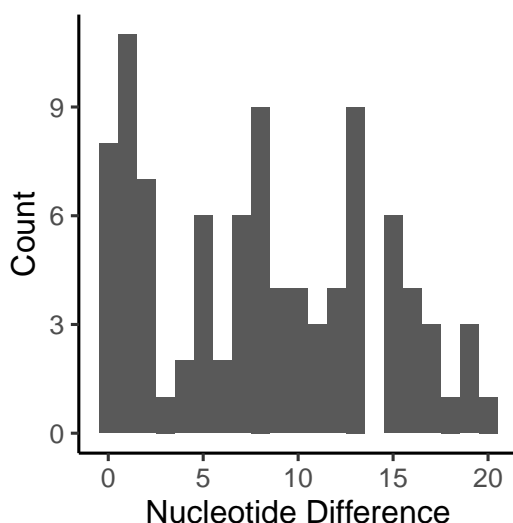
IGHV3-7*01

1220 sequences assigned
24 (2%) exact matches, in which:
21 unique CDR3
4 unique J



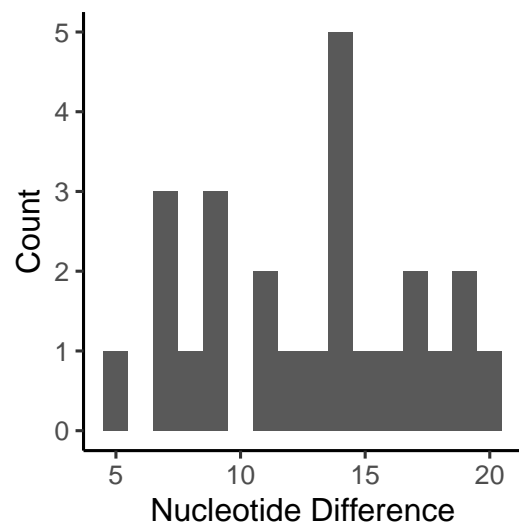
IGHV3-9*03

102 sequences assigned
8 (7.8%) exact matches, in which:
6 unique CDR3
4 unique J



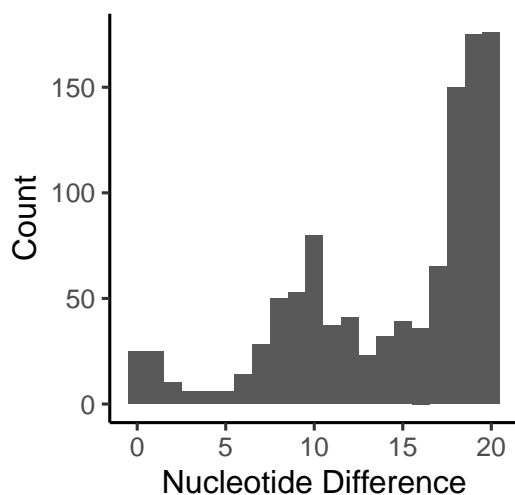
IGHV3-13*01

27 sequences assigned
No exact matches.



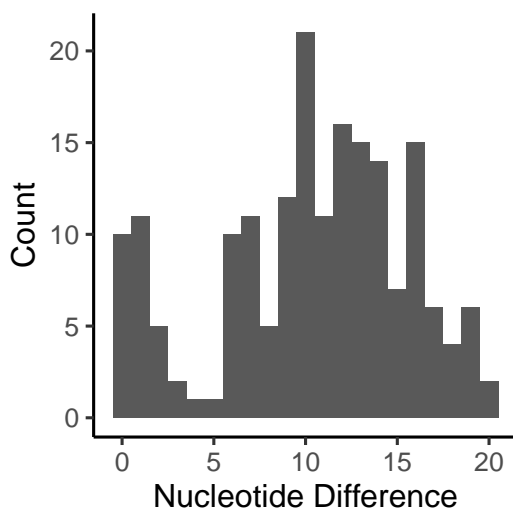
IGHV3-7*03

1665 sequences assigned
25 (1.5%) exact matches, in which:
18 unique CDR3
5 unique J



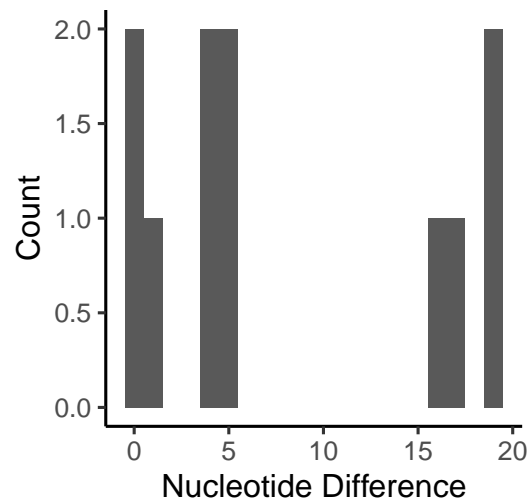
IGHV3-11*04

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



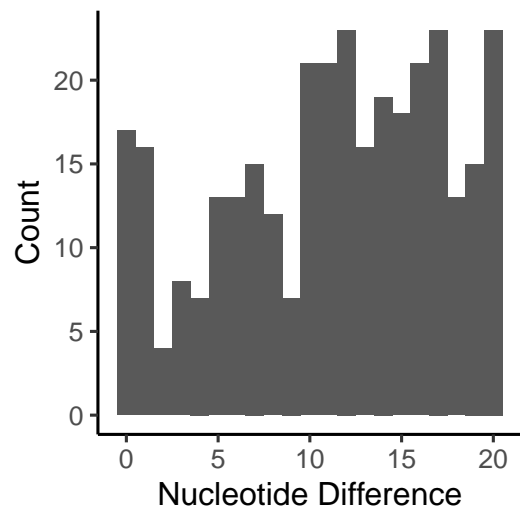
IGHV3-13*05

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



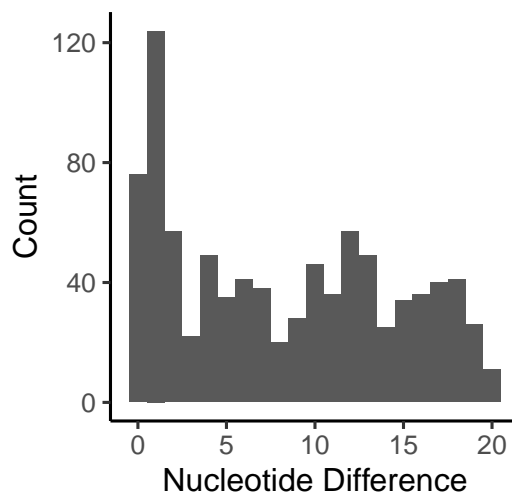
IGHV3-15*01

506 sequences assigned
17 (3.4%) exact matches, in which:
16 unique CDR3
5 unique J



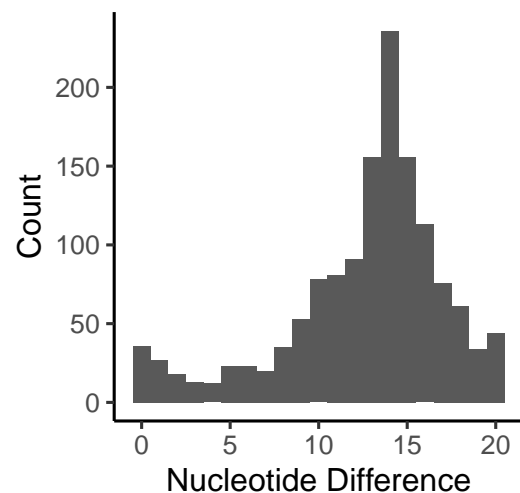
IGHV3-23*01

1243 sequences assigned
76 (6.1%) exact matches, in which:
64 unique CDR3
6 unique J



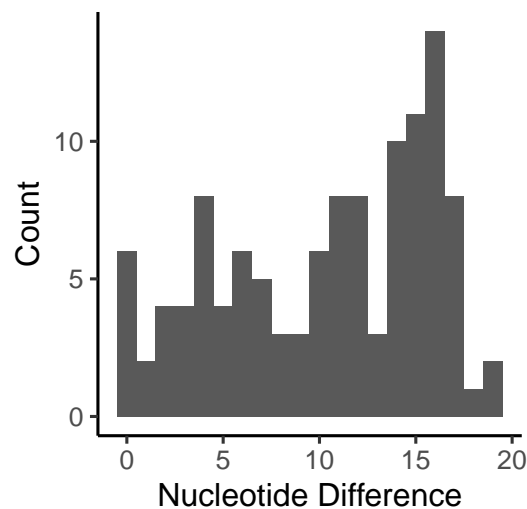
IGHV3-30*02

1858 sequences assigned
36 (1.9%) exact matches, in which:
34 unique CDR3
6 unique J



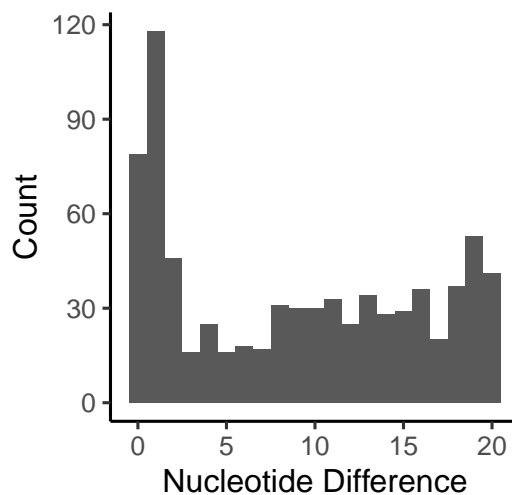
IGHV3-20*04

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



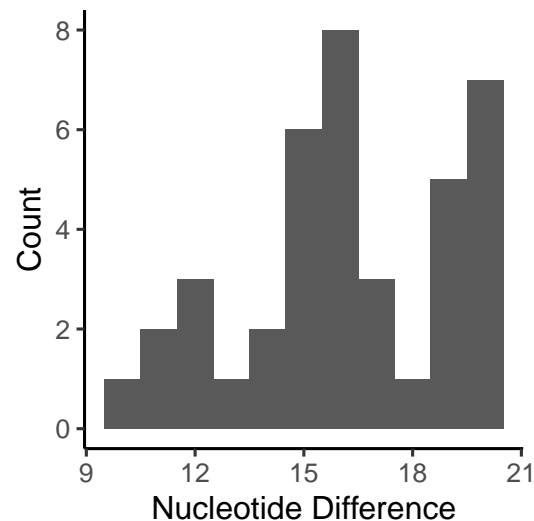
IGHV3-23*04

1258 sequences assigned
79 (6.3%) exact matches, in which:
61 unique CDR3
4 unique J



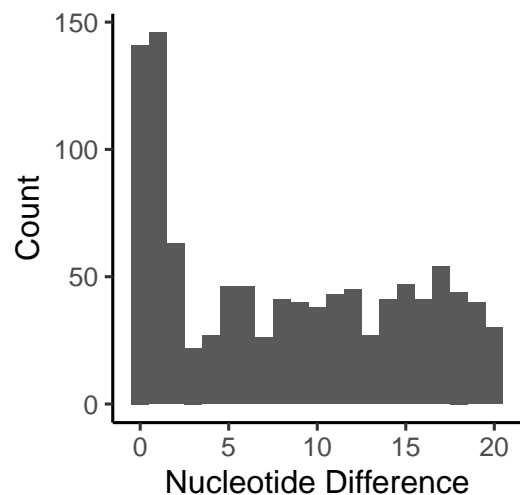
IGHV3-30*04

127 sequences assigned
No exact matches.



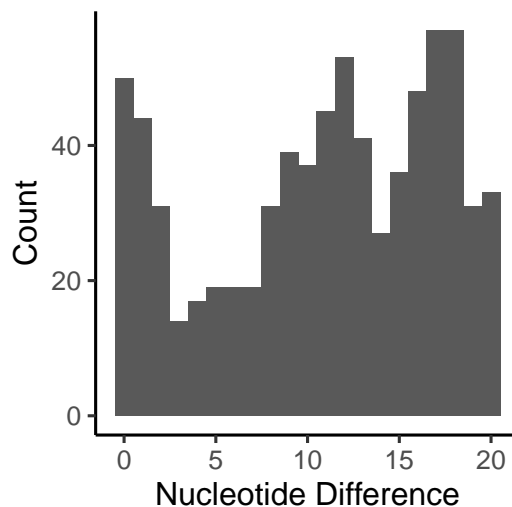
IGHV3-21*01

1352 sequences assigned
141 (10.4%) exact matches, in which:
95 unique CDR3
7 unique J



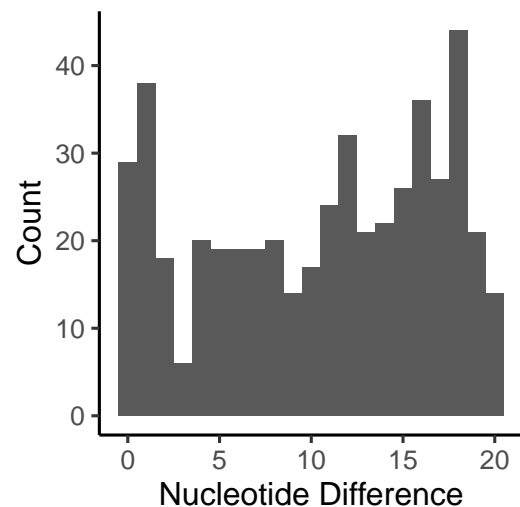
IGHV3-30-3*01

1053 sequences assigned
50 (4.7%) exact matches, in which:
40 unique CDR3
4 unique J



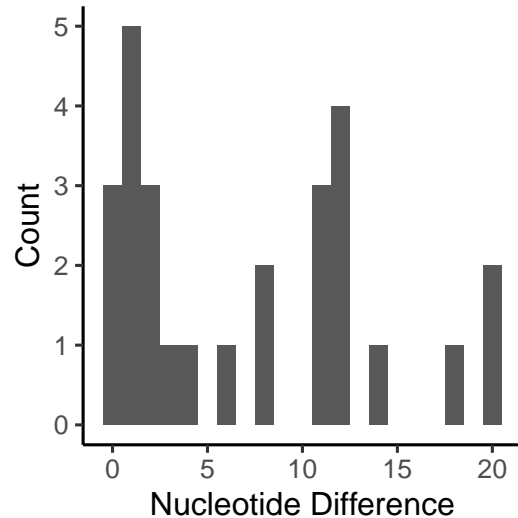
IGHV3-33*08

713 sequences assigned
29 (4.1%) exact matches, in which:
24 unique CDR3
5 unique J



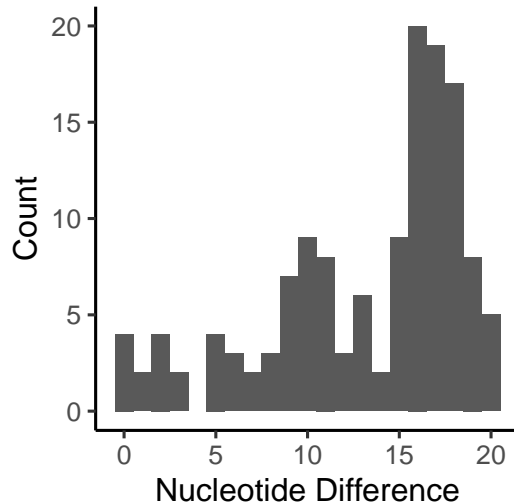
IGHV3-43*01

66 sequences assigned
3 (4.5%) exact matches, in which:
3 unique CDR3
2 unique J



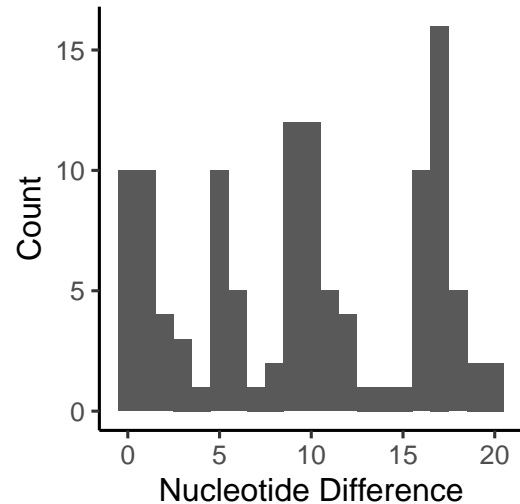
IGHV3-49*03

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



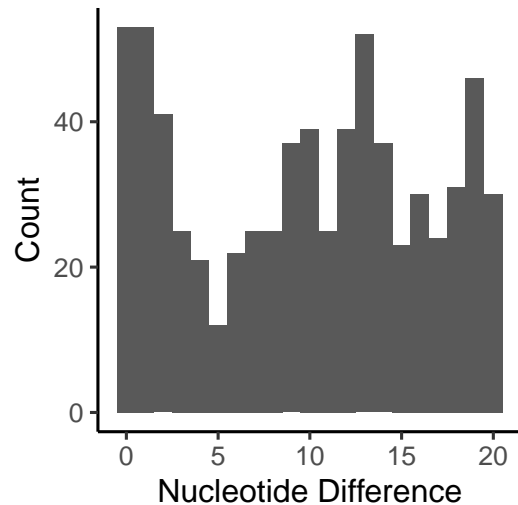
IGHV3-53*04

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



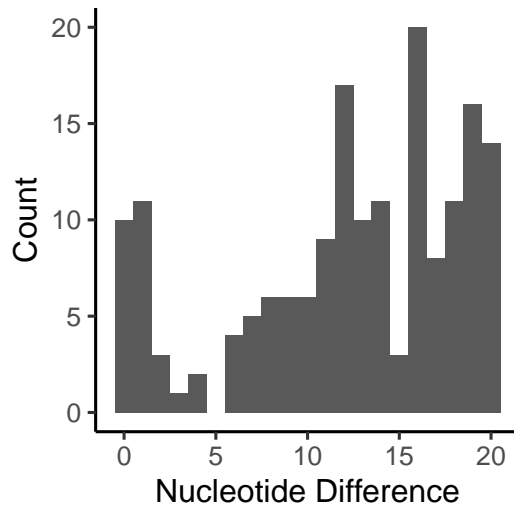
IGHV3-48*03

1016 sequences assigned
53 (5.2%) exact matches, in which:
42 unique CDR3
5 unique J



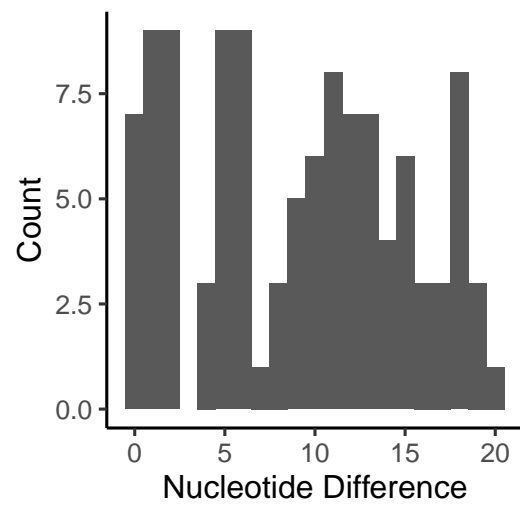
IGHV3-49*04

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



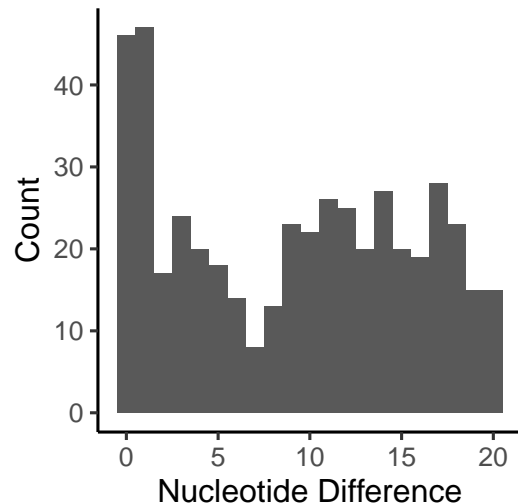
IGHV3-64*01

151 sequences assigned
7 (4.6%) exact matches, in which:
6 unique CDR3
1 unique J



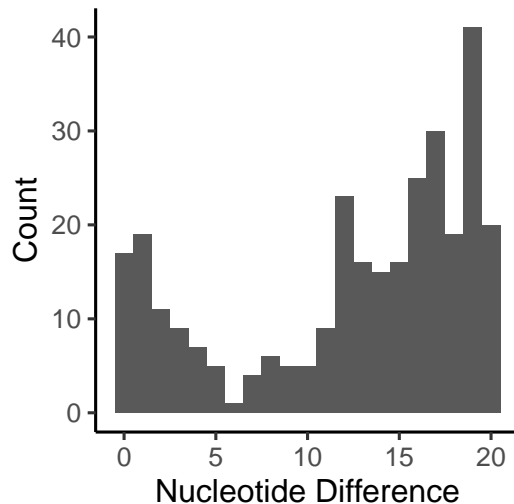
IGHV3-48*04

745 sequences assigned
46 (6.2%) exact matches, in which:
38 unique CDR3
6 unique J



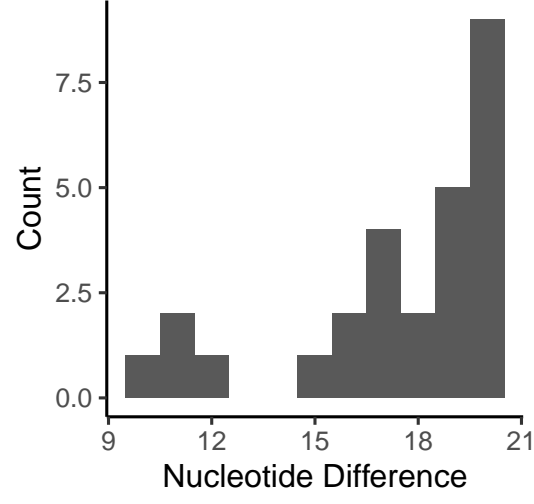
IGHV3-53*02

505 sequences assigned
17 (3.4%) exact matches, in which:
17 unique CDR3
3 unique J



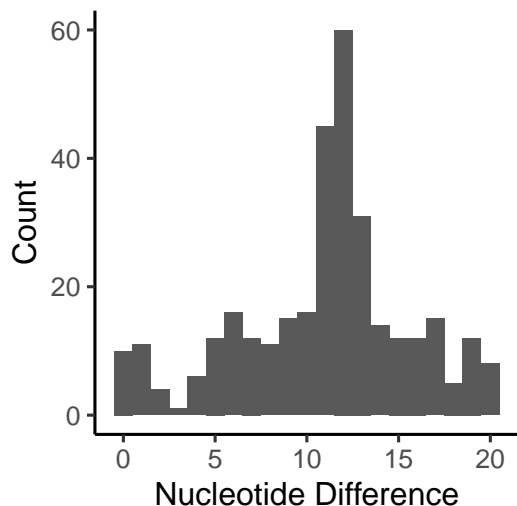
IGHV3-64*07

38 sequences assigned
No exact matches.



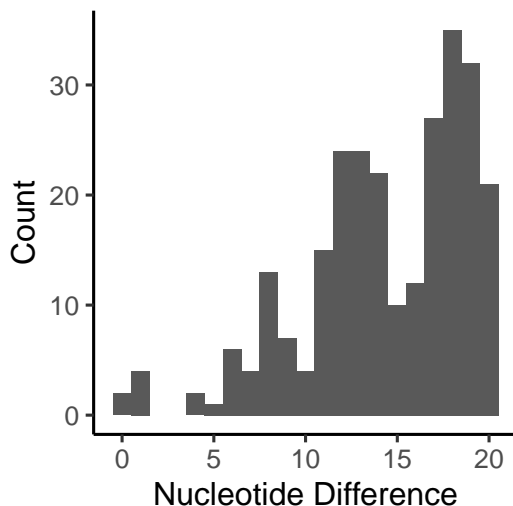
IGHV3-66*01

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



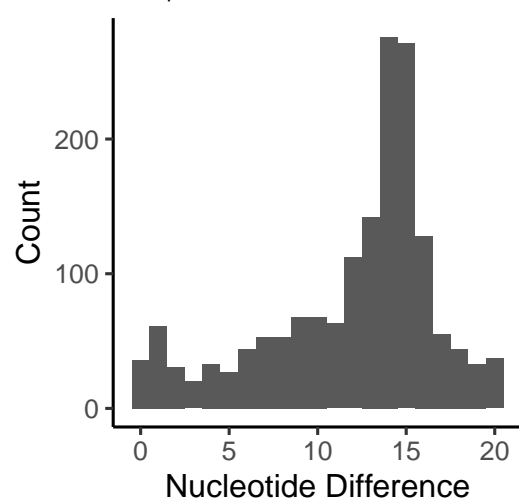
IGHV3-72*01

399 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
1 unique J



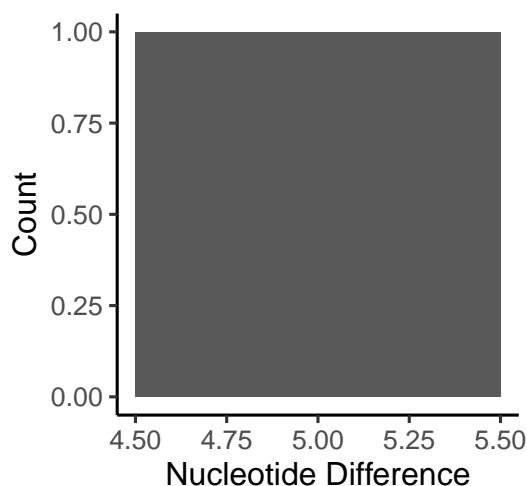
IGHV3-74*01

2180 sequences assigned
36 (1.7%) exact matches, in which:
27 unique CDR3
3 unique J



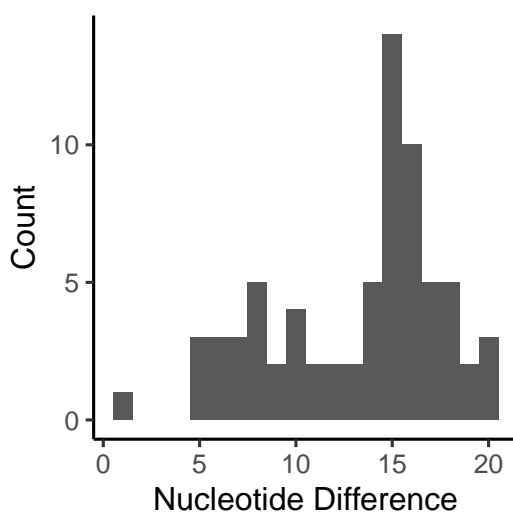
IGHV3-69-1*01

4 sequences assigned
No exact matches.



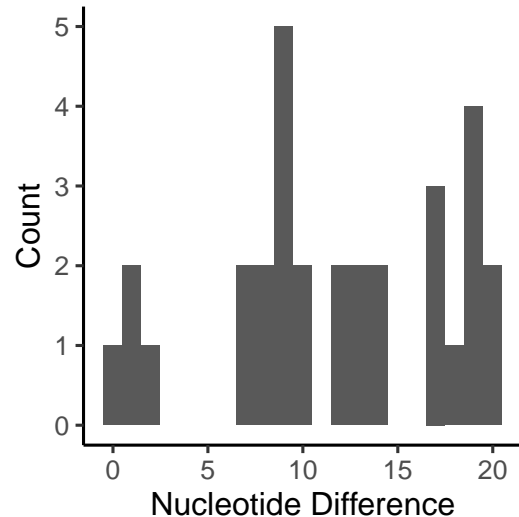
IGHV3-73*01

109 sequences assigned
No exact matches.



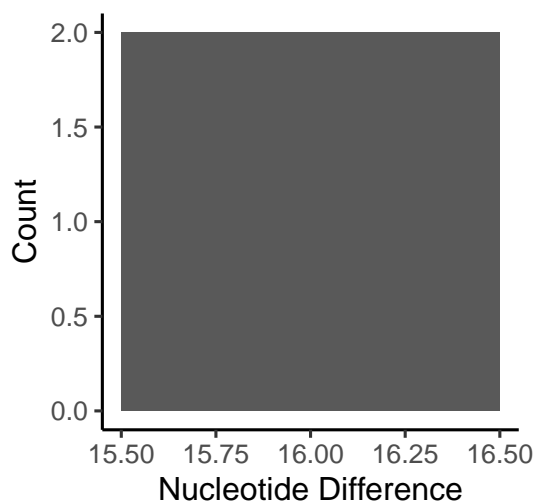
IGHV3-43D*04

59 sequences assigned
1 (1.7%) exact matches, in which:
1 unique CDR3
1 unique J



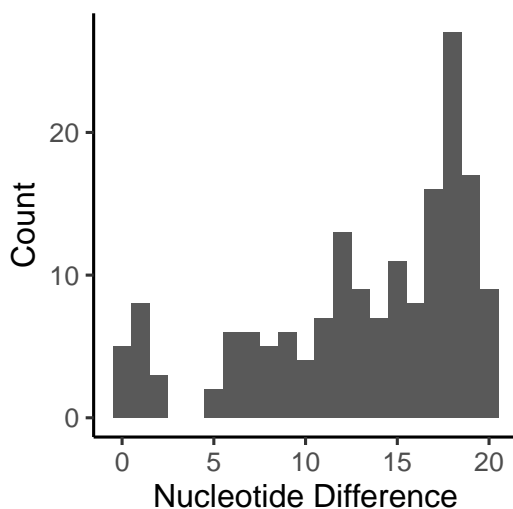
IGHV3-69-1*02

2 sequences assigned
No exact matches.



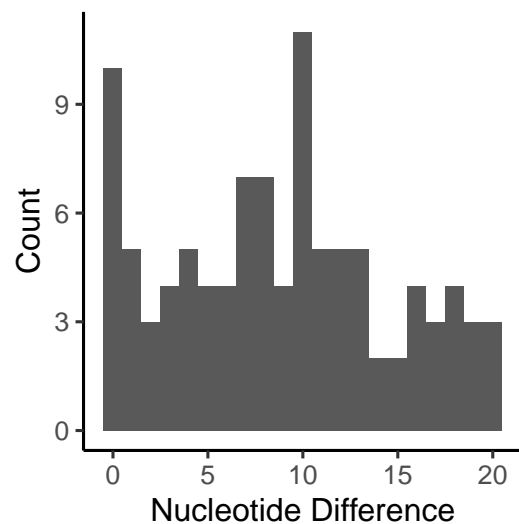
IGHV3-73*02

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



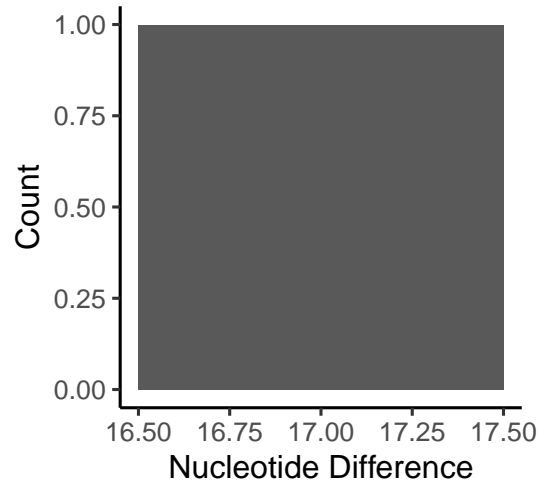
IGHV3-64D*06

134 sequences assigned
10 (7.5%) exact matches, in which:
9 unique CDR3
2 unique J



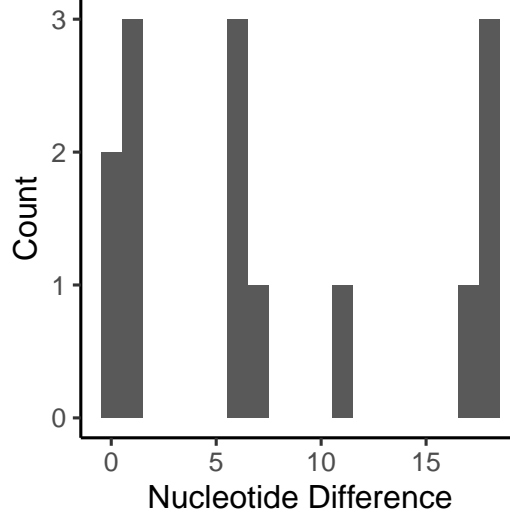
IGHV3–NL1*01

2 sequences assigned
No exact matches.



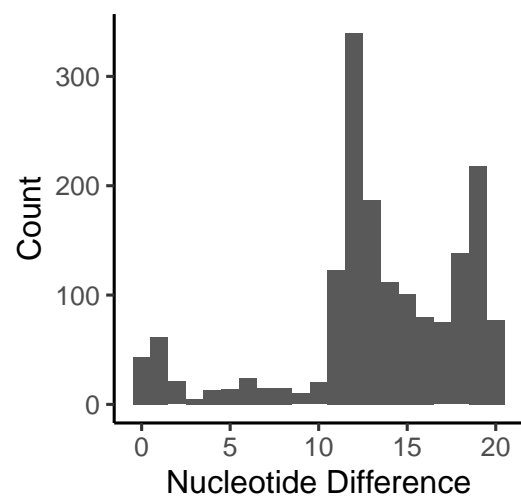
IGHV4–28*07

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



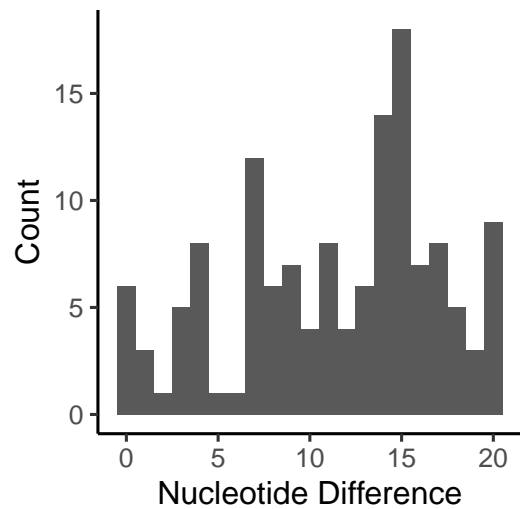
IGHV4–34*01

2668 sequences assigned
43 (1.6%) exact matches, in which:
37 unique CDR3
6 unique J



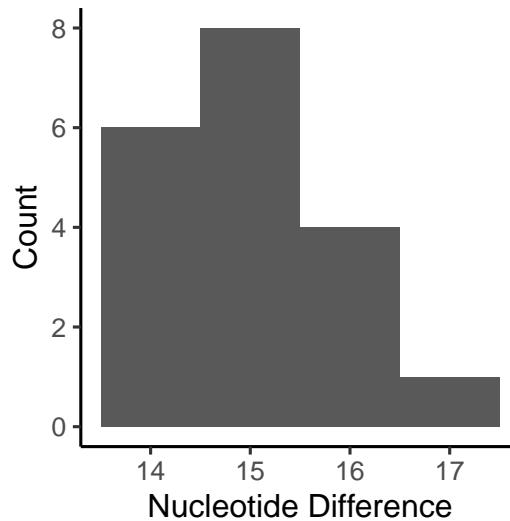
IGHV4–4*02

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



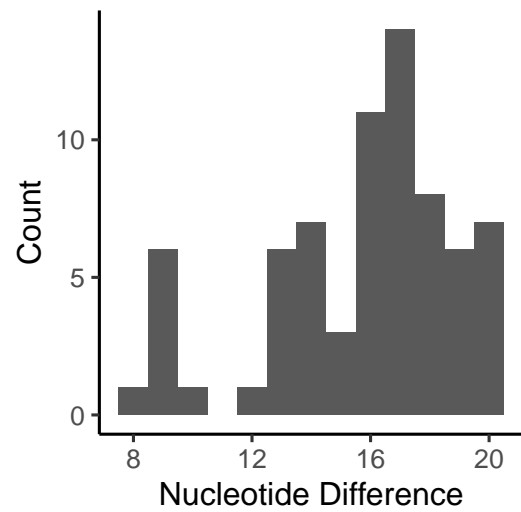
IGHV4–30–4*01

52 sequences assigned
No exact matches.



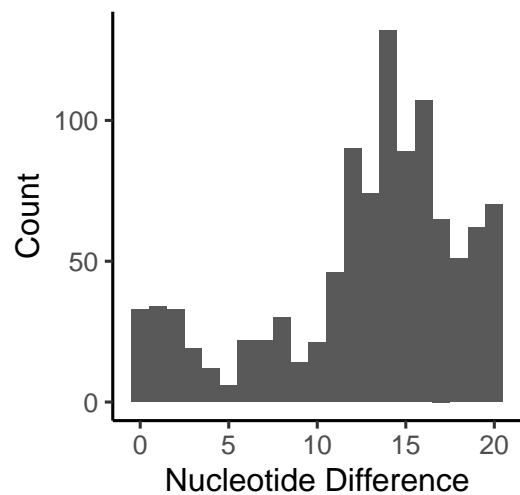
IGHV4–34*02

256 sequences assigned
No exact matches.



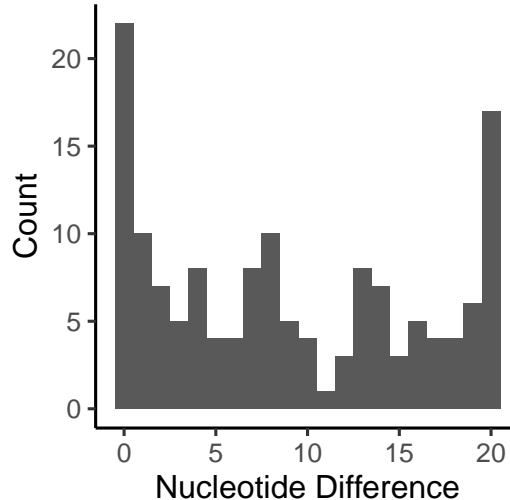
IGHV4–4*07

1481 sequences assigned
33 (2.2%) exact matches, in which:
31 unique CDR3
5 unique J



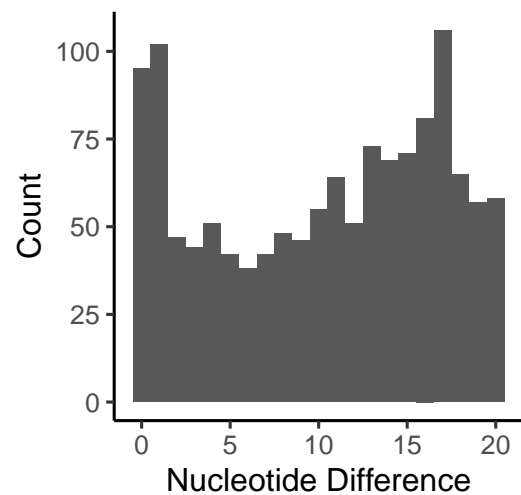
IGHV4–30–4*08

243 sequences assigned
22 (9.1%) exact matches, in which:
21 unique CDR3
3 unique J



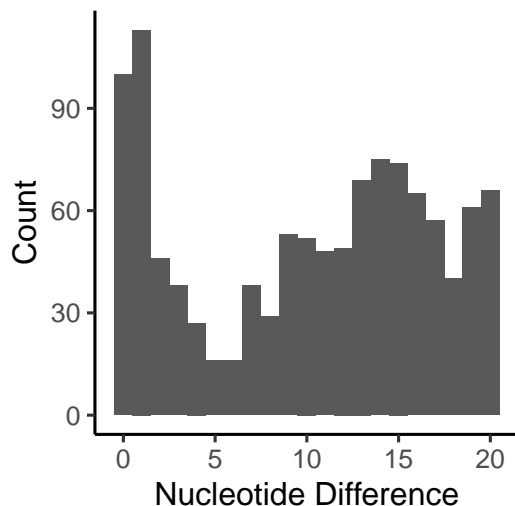
IGHV4–38–2*01

2136 sequences assigned
95 (4.4%) exact matches, in which:
74 unique CDR3
5 unique J



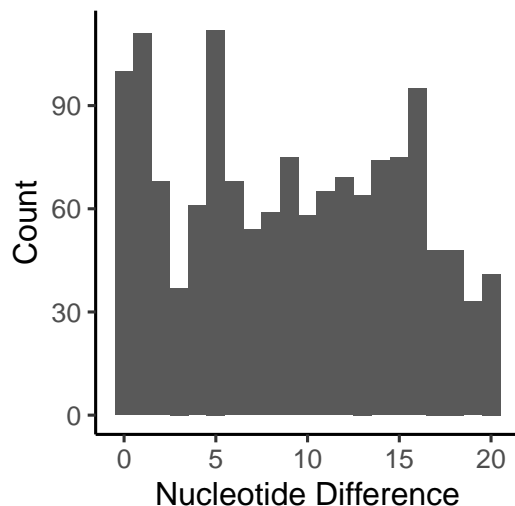
IGHV4-39*01

1937 sequences assigned
100 (5.2%) exact matches, in which:
82 unique CDR3
5 unique J



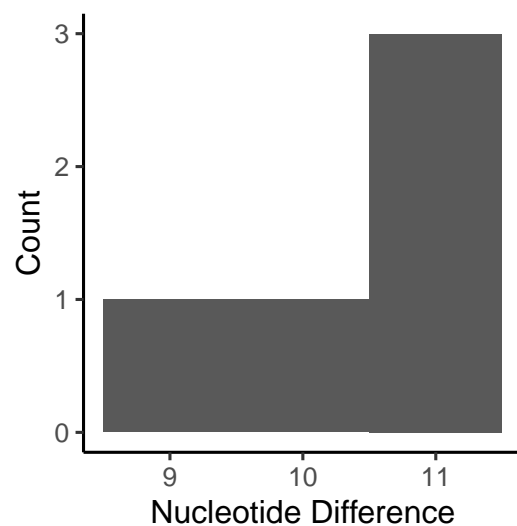
IGHV4-59*08

2067 sequences assigned
100 (4.8%) exact matches, in which:
78 unique CDR3
7 unique J



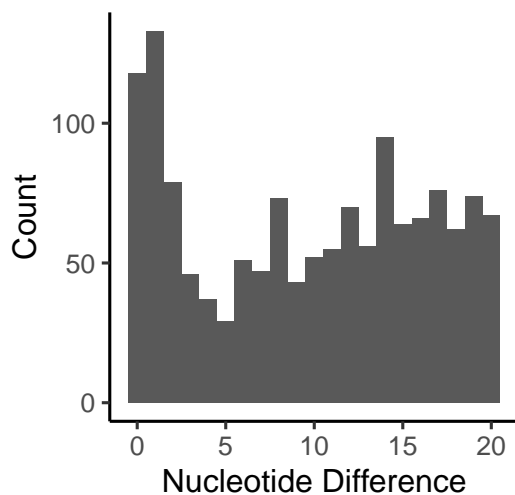
IGHV4-61*08

9 sequences assigned
No exact matches.



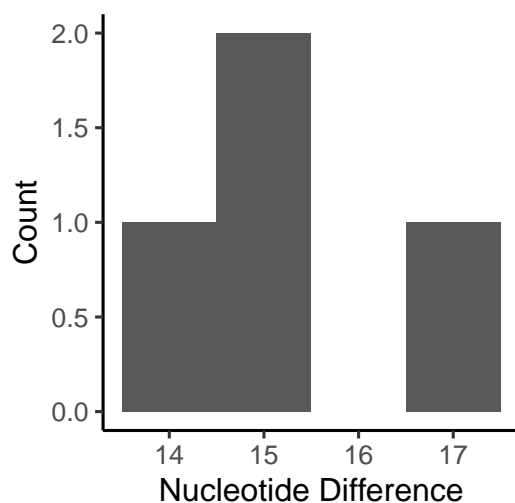
IGHV4-39*07

2212 sequences assigned
118 (5.3%) exact matches, in which:
103 unique CDR3
6 unique J



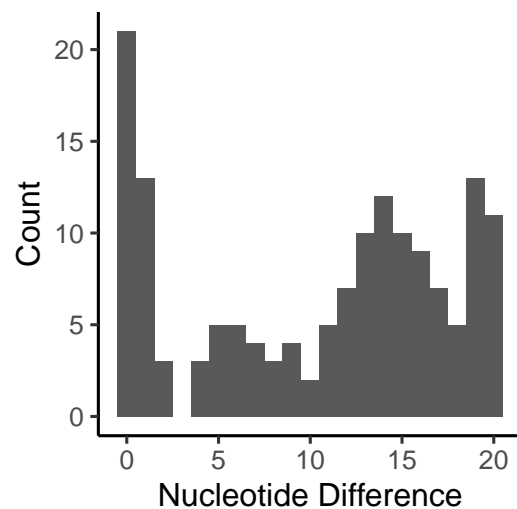
IGHV4-61*01

8 sequences assigned
No exact matches.



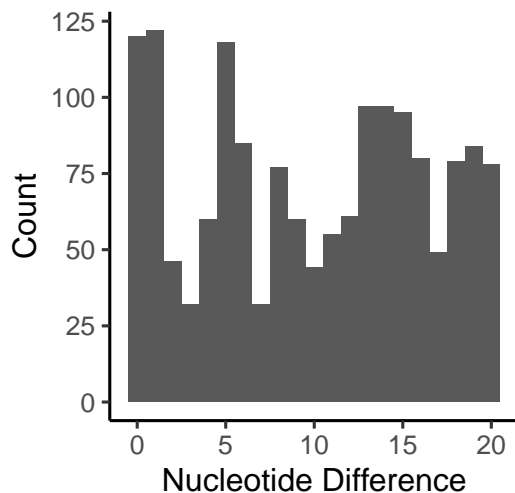
IGHV5-10-1*03

231 sequences assigned
21 (9.1%) exact matches, in which:
17 unique CDR3
5 unique J



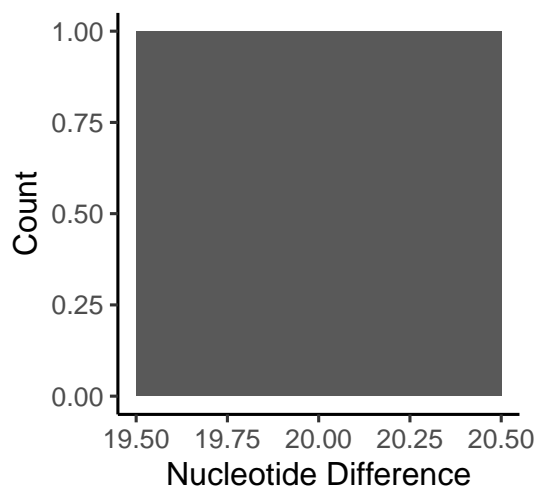
IGHV4-59*01

2215 sequences assigned
120 (5.4%) exact matches, in which:
91 unique CDR3
7 unique J



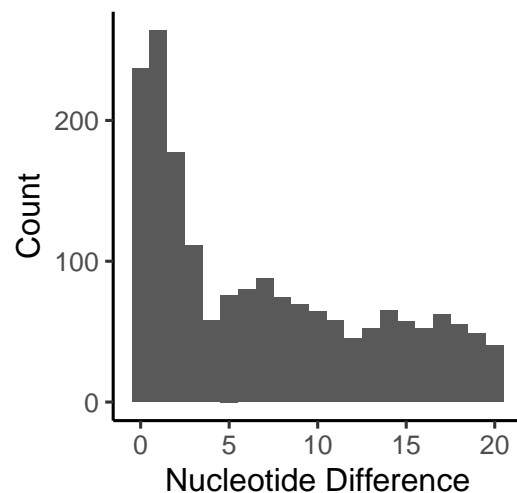
IGHV4-61*05

4 sequences assigned
No exact matches.



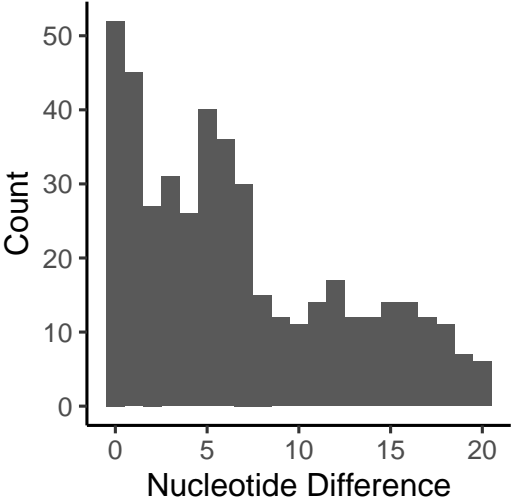
IGHV5-51*01

2263 sequences assigned
237 (10.5%) exact matches, in which:
175 unique CDR3
7 unique J



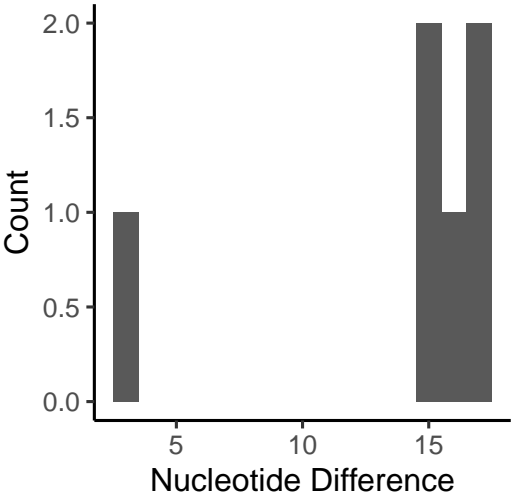
IGHV6-1*01

608 sequences assigned
52 (8.6%) exact matches, in which:
41 unique CDR3
6 unique J

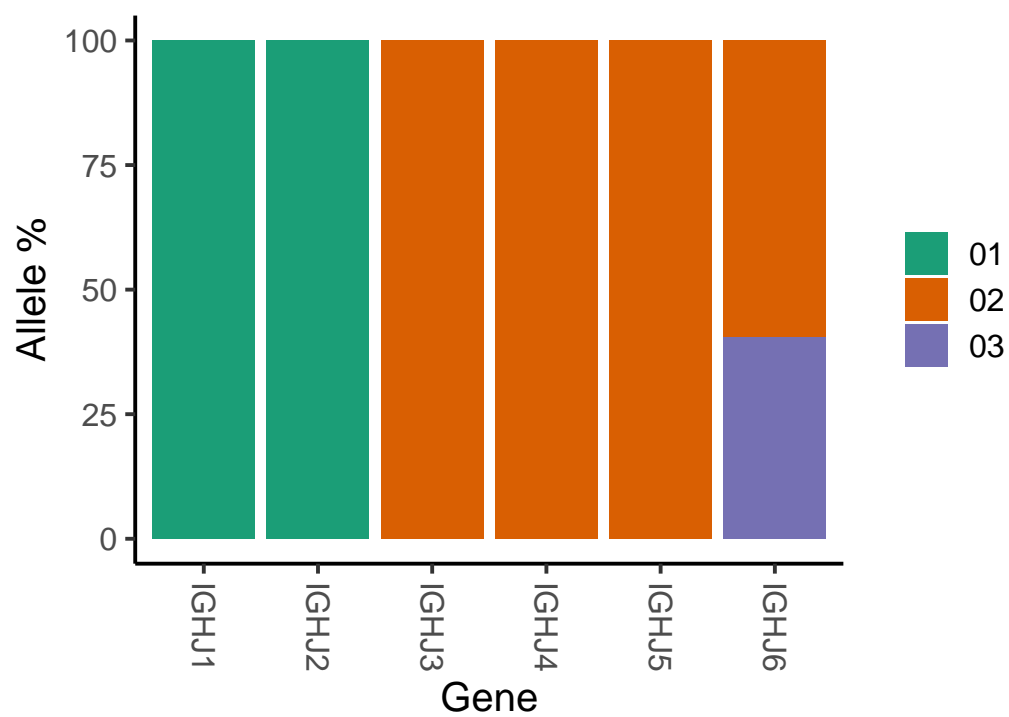


IGHV7-4-1*01

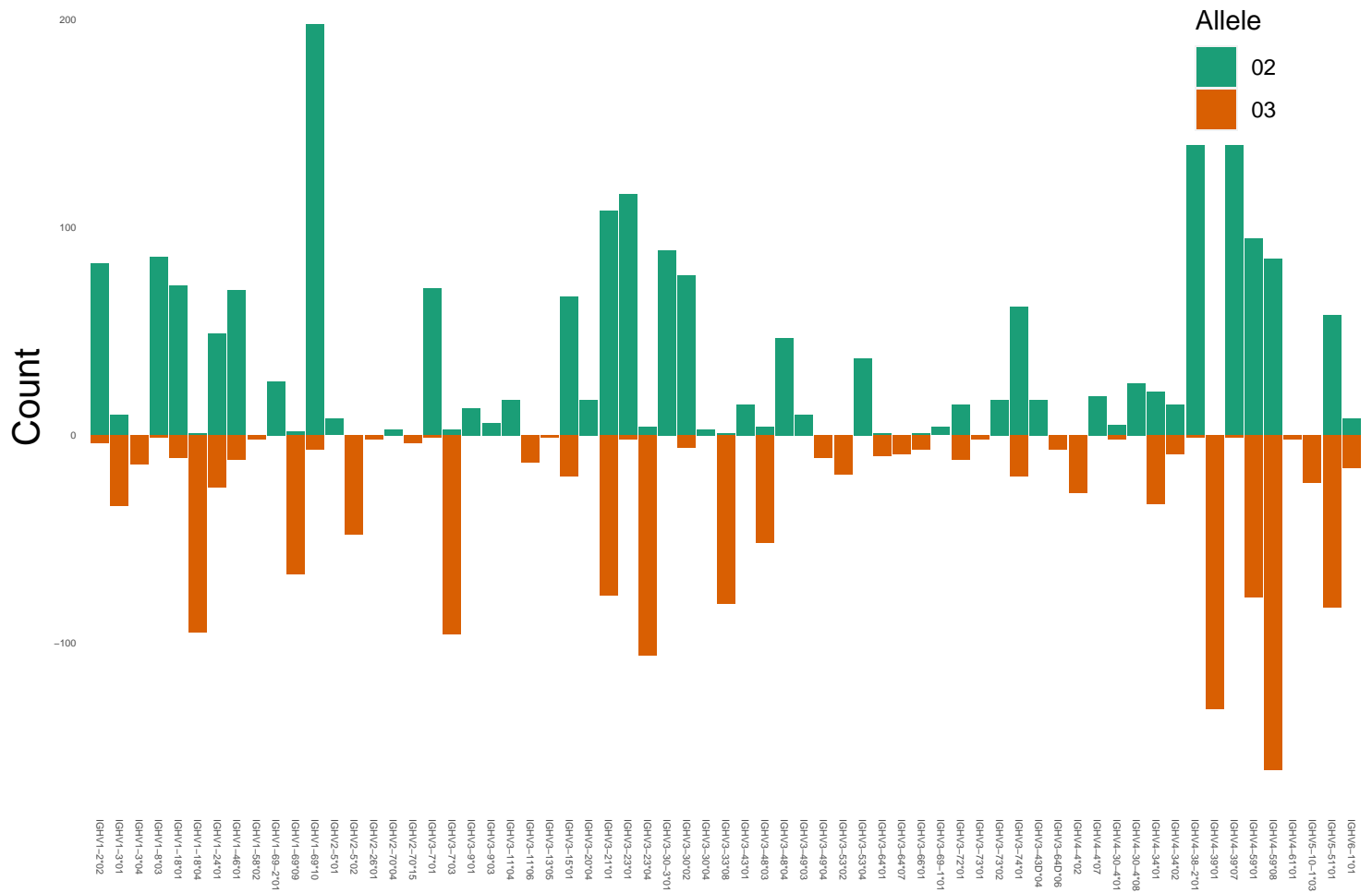
7 sequences assigned
No exact matches.



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.