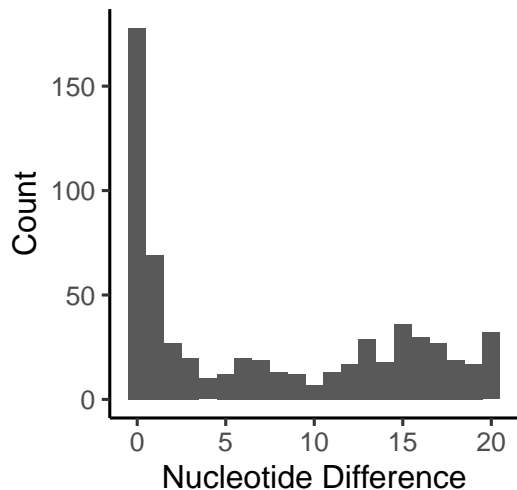


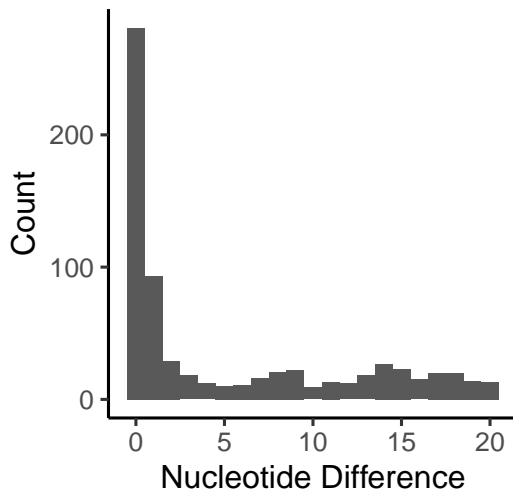
IGHV1-2*02

1018 sequences assigned
178 (17.5%) exact matches, in which:
174 unique CDR3
6 unique J



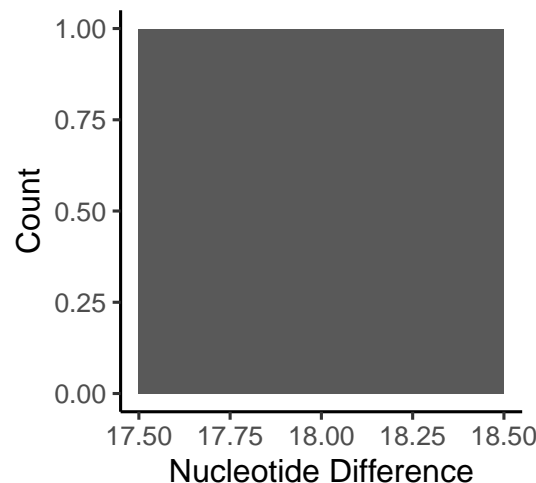
IGHV1-8*01

875 sequences assigned
281 (32.1%) exact matches, in which:
277 unique CDR3
7 unique J



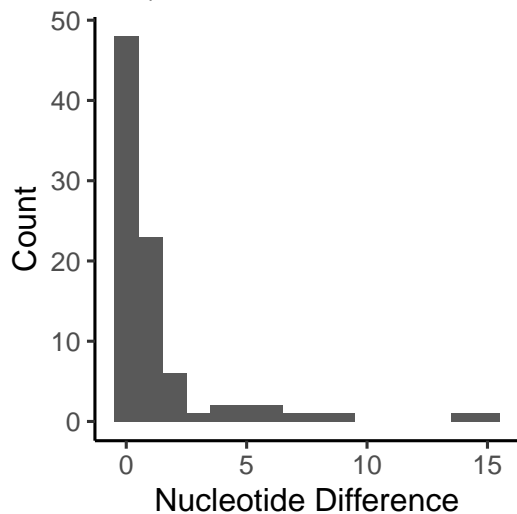
IGHV1-45*01

4 sequences assigned
No exact matches.



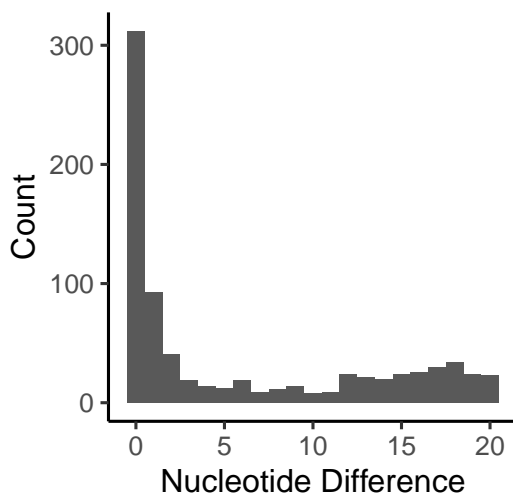
IGHV1-2*04

112 sequences assigned
48 (42.9%) exact matches, in which:
48 unique CDR3
5 unique J



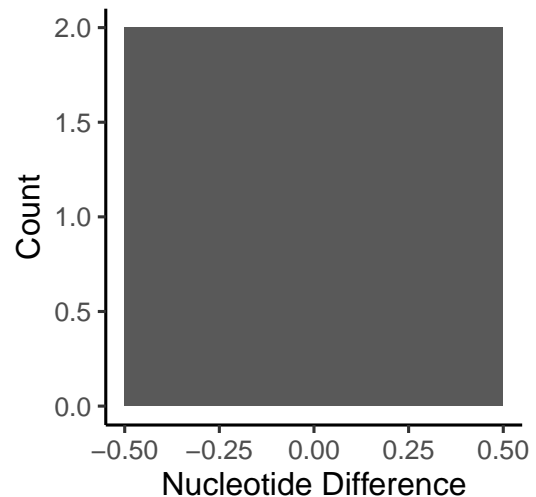
IGHV1-18*01

1289 sequences assigned
312 (24.2%) exact matches, in which:
311 unique CDR3
7 unique J



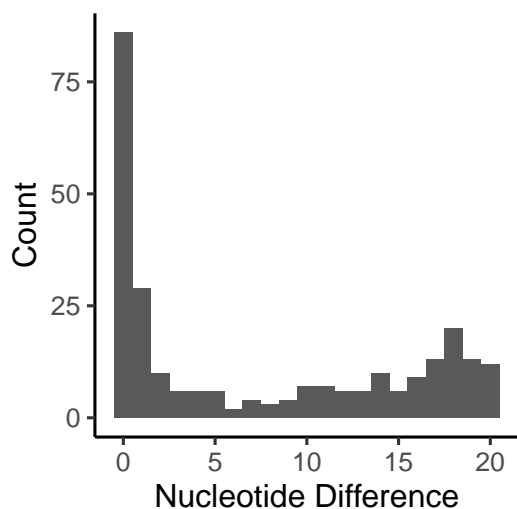
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



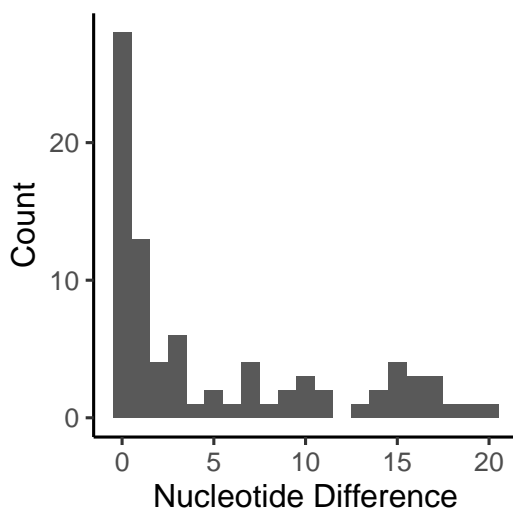
IGHV1-3*01

503 sequences assigned
86 (17.1%) exact matches, in which:
86 unique CDR3
6 unique J



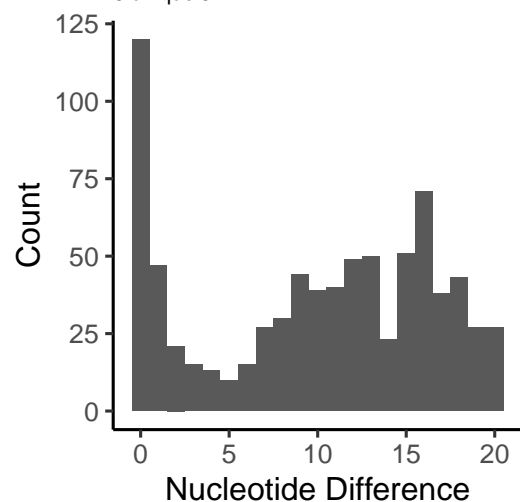
IGHV1-24*01

123 sequences assigned
28 (22.8%) exact matches, in which:
27 unique CDR3
7 unique J



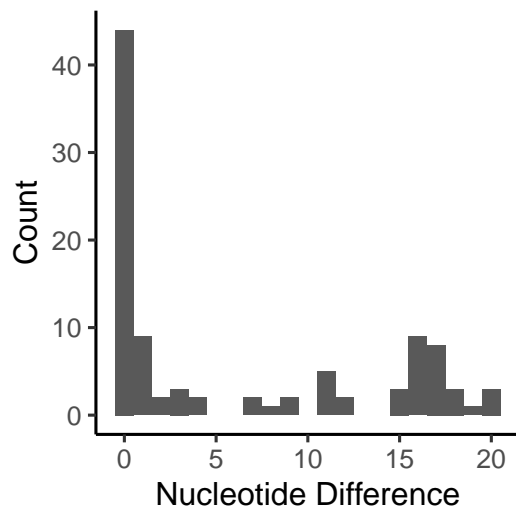
IGHV1-46*01

1332 sequences assigned
120 (9%) exact matches, in which:
117 unique CDR3
6 unique J



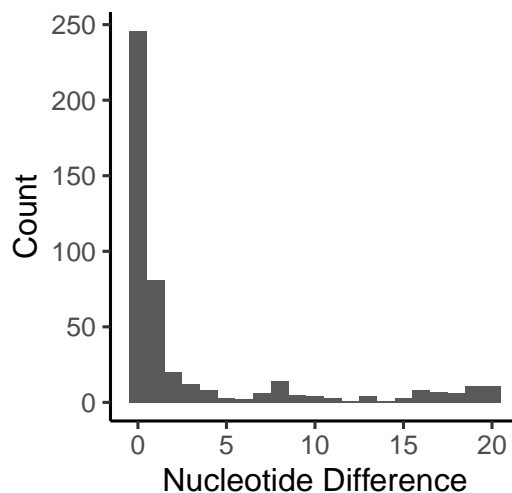
IGHV1-58*01

160 sequences assigned
44 (27.5%) exact matches, in which:
44 unique CDR3
7 unique J



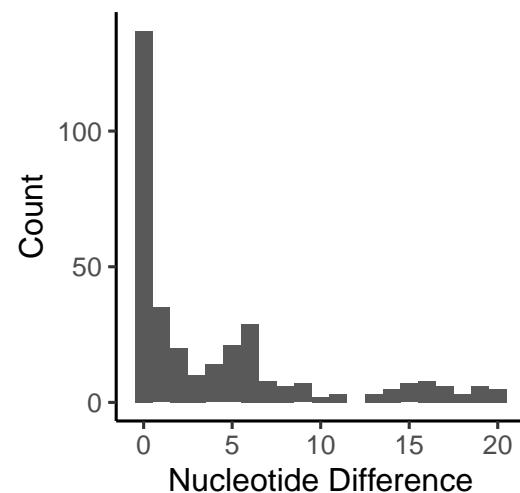
IGHV1-69*06

686 sequences assigned
246 (35.9%) exact matches, in which:
239 unique CDR3
7 unique J



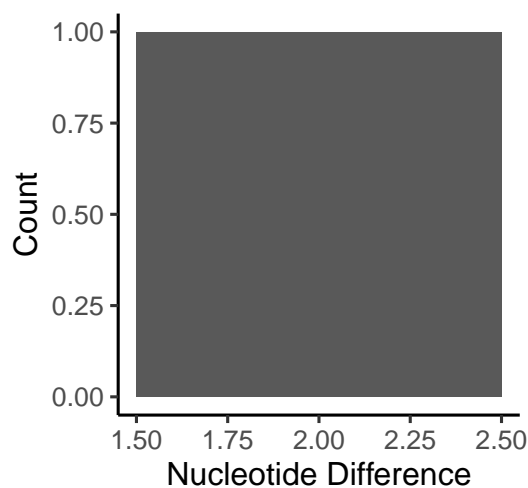
IGHV2-26*01

350 sequences assigned
137 (39.1%) exact matches, in which:
137 unique CDR3
7 unique J



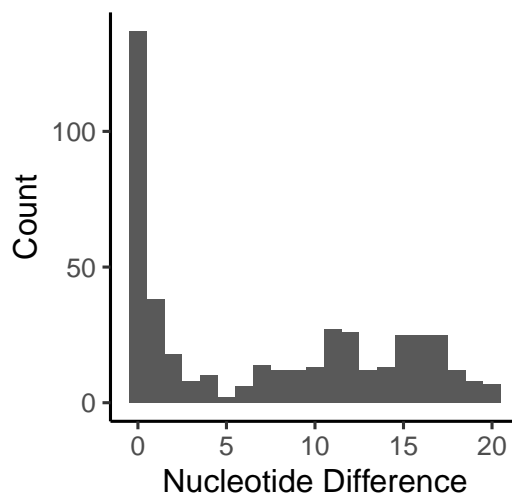
IGHV1-68*02

1 sequences assigned
No exact matches.



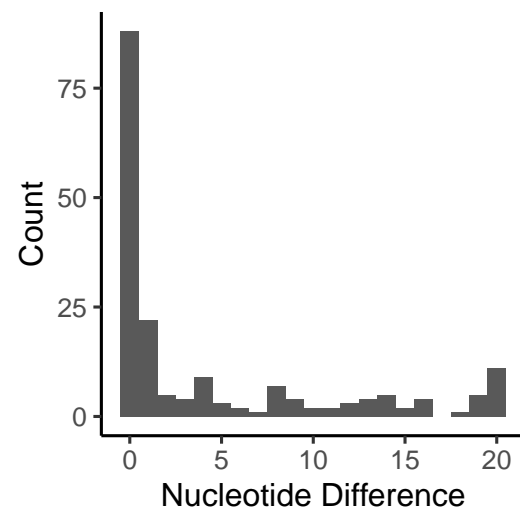
IGHV2-5*01

564 sequences assigned
137 (24.3%) exact matches, in which:
135 unique CDR3
6 unique J



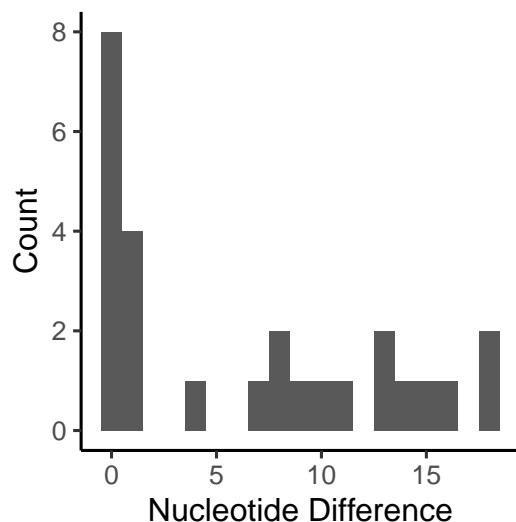
IGHV2-70*01

221 sequences assigned
88 (39.8%) exact matches, in which:
88 unique CDR3
6 unique J



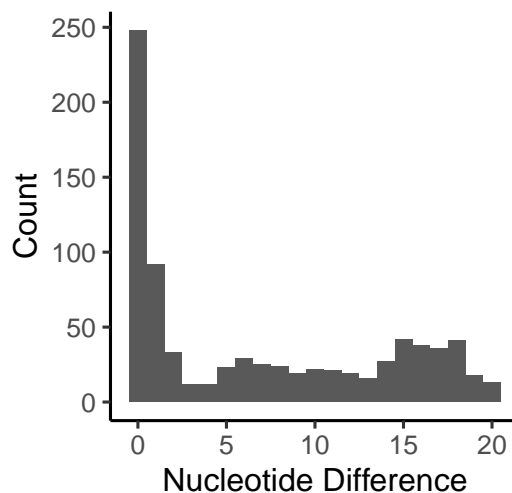
IGHV1-69-2*01

38 sequences assigned
8 (21.1%) exact matches, in which:
8 unique CDR3
2 unique J



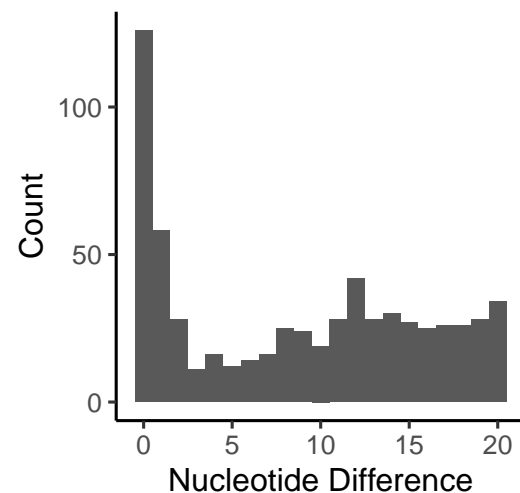
IGHV2-5*02

1043 sequences assigned
248 (23.8%) exact matches, in which:
242 unique CDR3
6 unique J



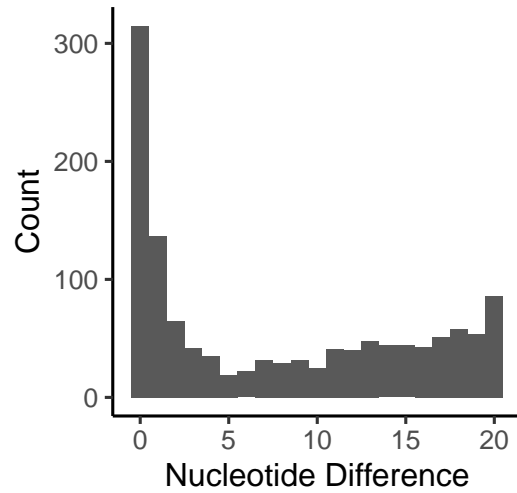
IGHV3-7*01

1044 sequences assigned
126 (12.1%) exact matches, in which:
126 unique CDR3
7 unique J



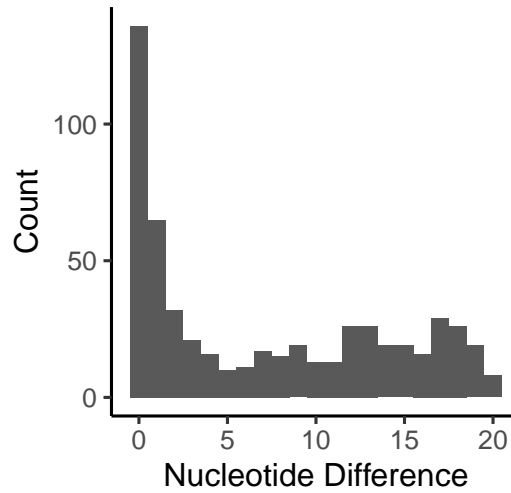
IGHV3-9*01

2080 sequences assigned
315 (15.1%) exact matches, in which:
311 unique CDR3
7 unique J



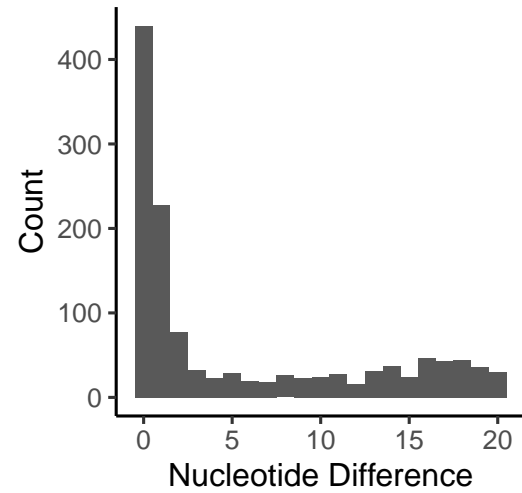
IGHV3-15*01

919 sequences assigned
136 (14.8%) exact matches, in which:
133 unique CDR3
7 unique J



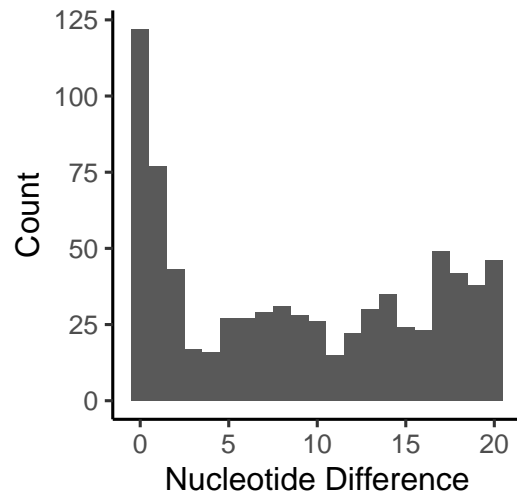
IGHV3-21*01

1781 sequences assigned
440 (24.7%) exact matches, in which:
435 unique CDR3
7 unique J



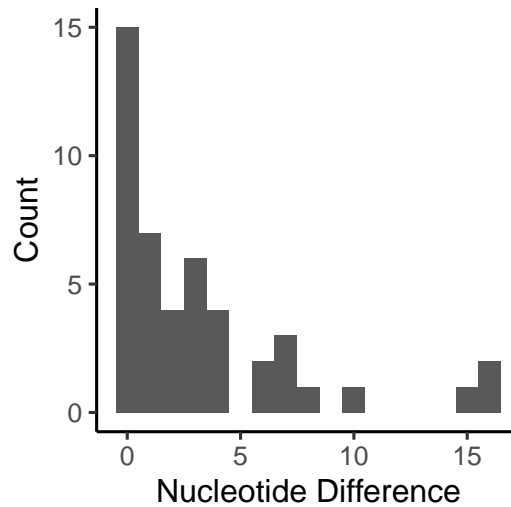
IGHV3-11*01

1252 sequences assigned
122 (9.7%) exact matches, in which:
122 unique CDR3
7 unique J



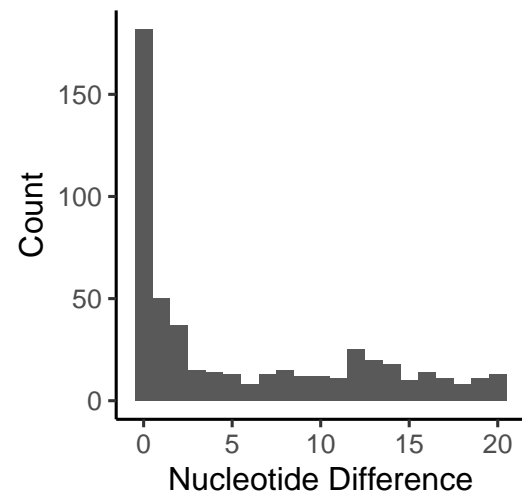
IGHV3-20*01

76 sequences assigned
15 (19.7%) exact matches, in which:
15 unique CDR3
5 unique J



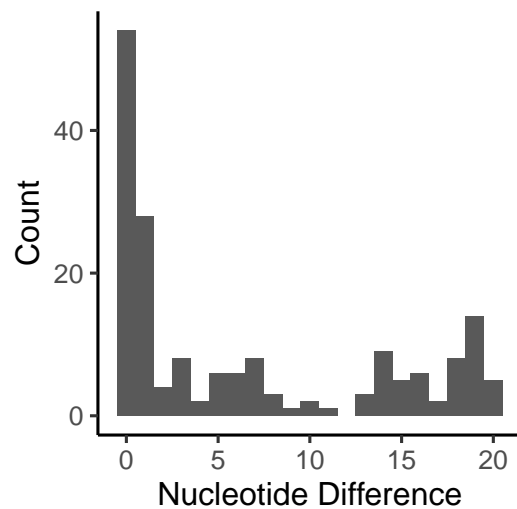
IGHV3-30-3*01

743 sequences assigned
182 (24.5%) exact matches, in which:
180 unique CDR3
7 unique J



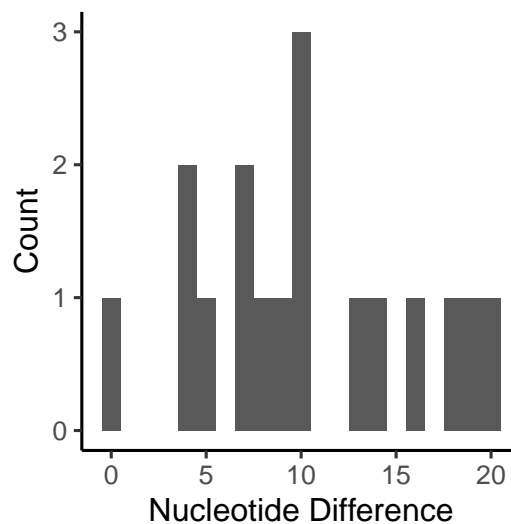
IGHV3-13*01

357 sequences assigned
54 (15.1%) exact matches, in which:
54 unique CDR3
6 unique J



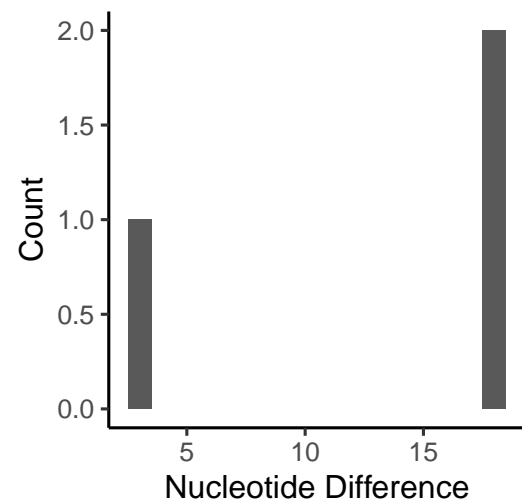
IGHV3-20*04

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



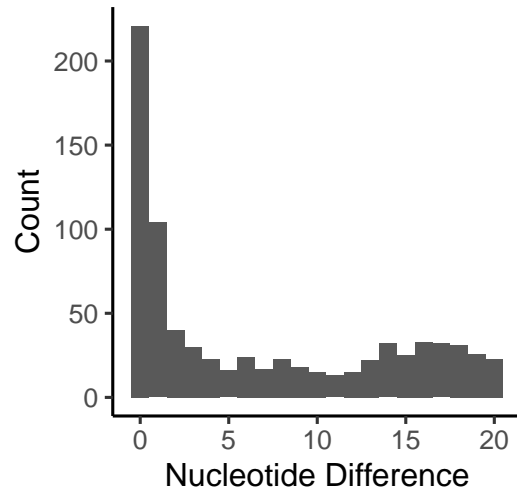
IGHV3-30-3*02

10 sequences assigned
No exact matches.



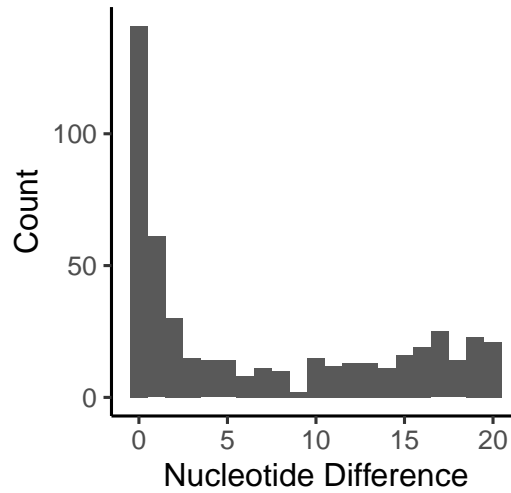
IGHV3–33*01

1296 sequences assigned
221 (17.1%) exact matches, in which:
217 unique CDR3
7 unique J



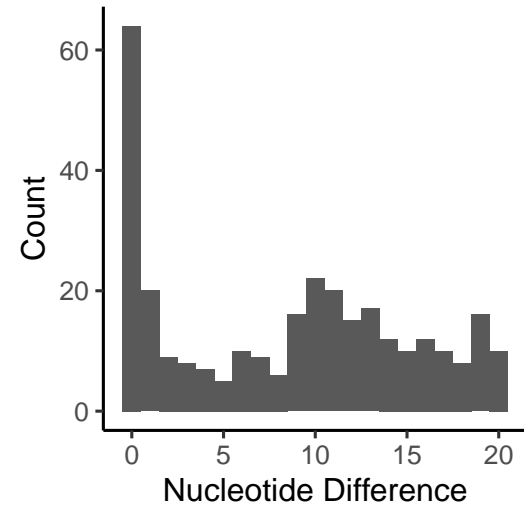
IGHV3–48*03

698 sequences assigned
141 (20.2%) exact matches, in which:
140 unique CDR3
6 unique J



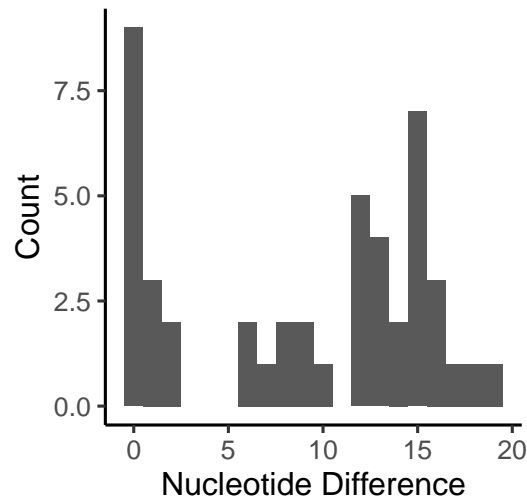
IGHV3–53*01

441 sequences assigned
64 (14.5%) exact matches, in which:
64 unique CDR3
6 unique J



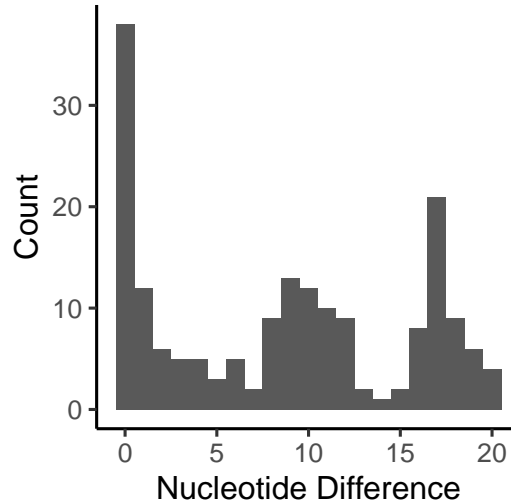
IGHV3–43*01

78 sequences assigned
9 (11.5%) exact matches, in which:
9 unique CDR3
2 unique J



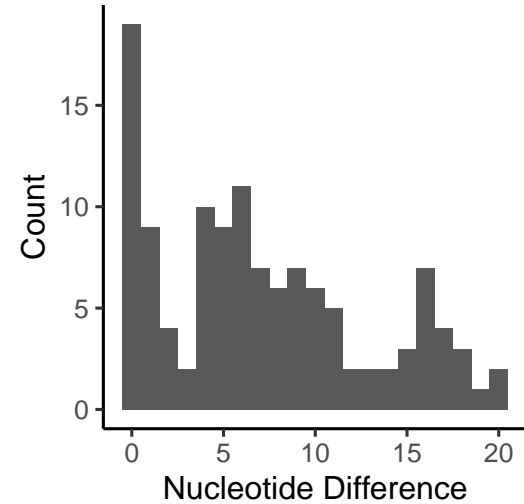
IGHV3–49*04

255 sequences assigned
38 (14.9%) exact matches, in which:
37 unique CDR3
3 unique J



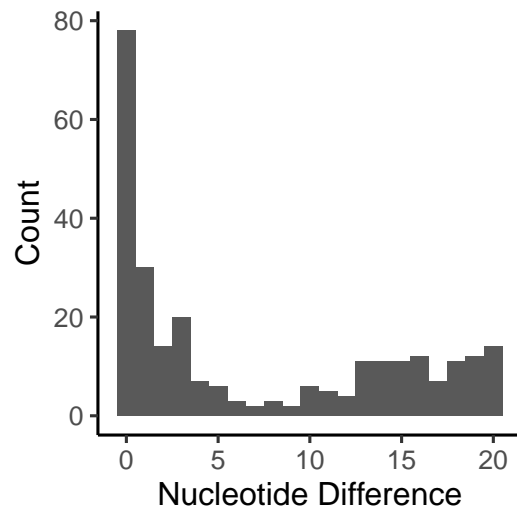
IGHV3–53*02

165 sequences assigned
19 (11.5%) exact matches, in which:
19 unique CDR3
4 unique J



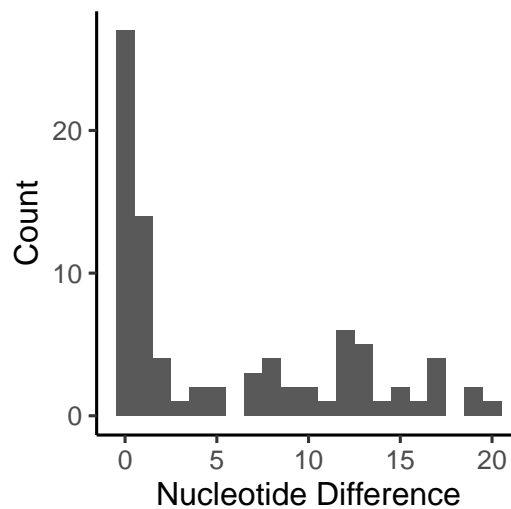
IGHV3–48*02

395 sequences assigned
78 (19.7%) exact matches, in which:
78 unique CDR3
6 unique J



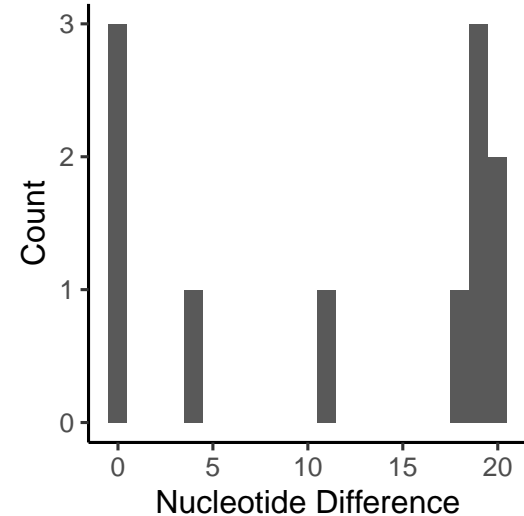
IGHV3–49*05

114 sequences assigned
27 (23.7%) exact matches, in which:
26 unique CDR3
4 unique J



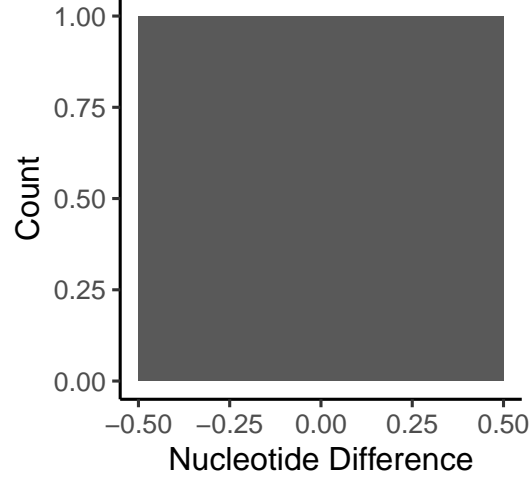
IGHV3–64*02

18 sequences assigned
3 (16.7%) exact matches, in which:
3 unique CDR3
1 unique J



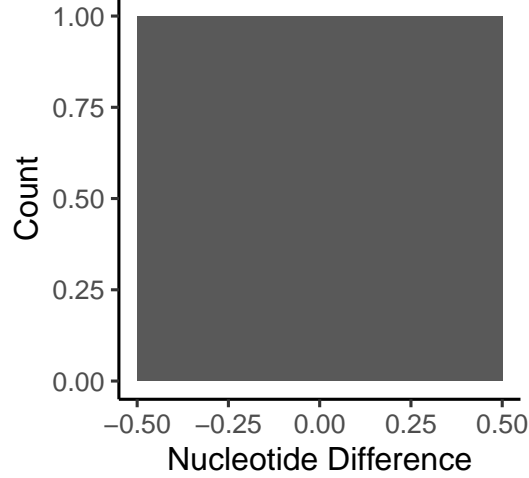
IGHV3-66*01

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



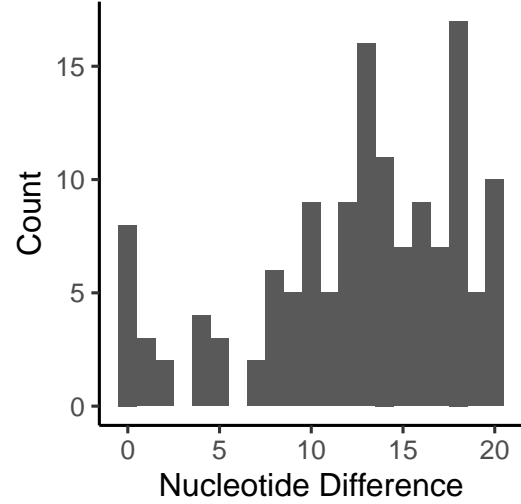
IGHV3-69-1*01

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



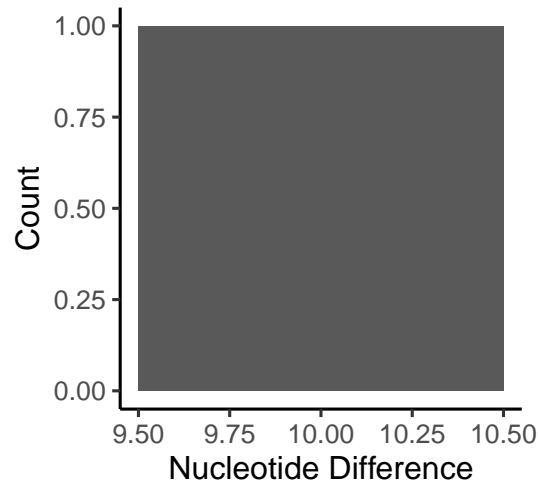
IGHV3-72*01

231 sequences assigned
8 (3.5%) exact matches, in which:
8 unique CDR3
3 unique J



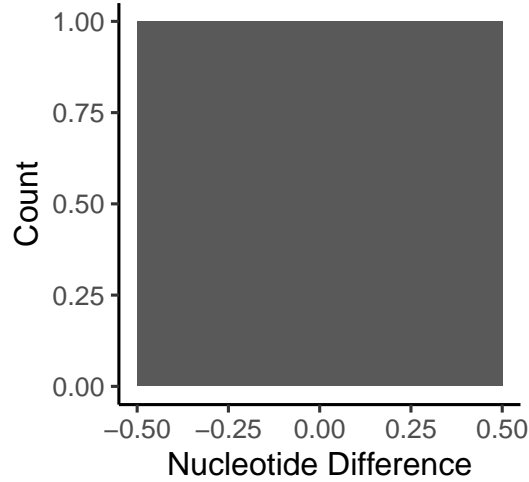
IGHV3-66*03

1 sequences assigned
No exact matches.



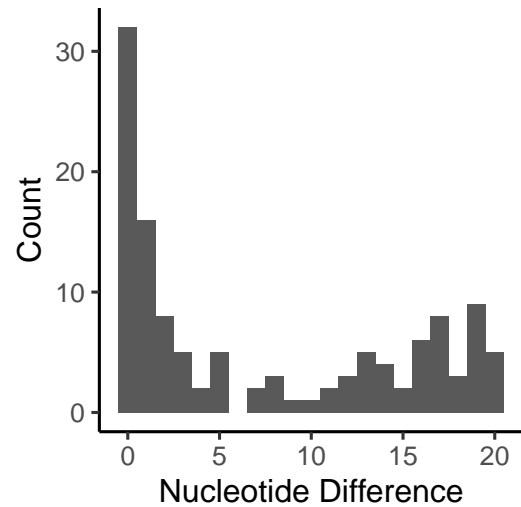
IGHV3-69-1*02

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



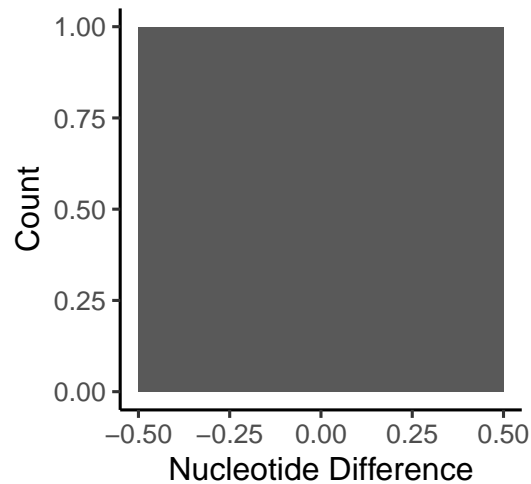
IGHV3-73*02

217 sequences assigned
32 (14.7%) exact matches, in which:
32 unique CDR3
5 unique J



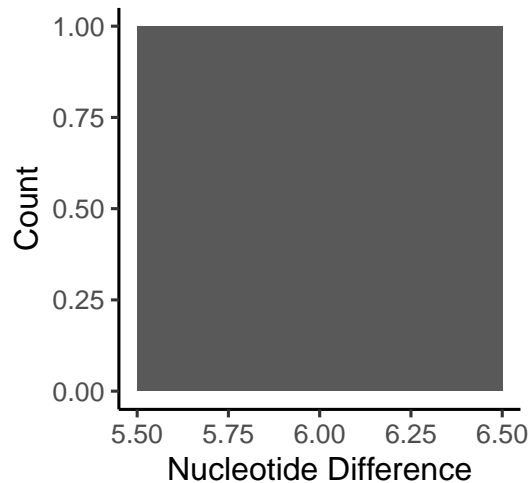
IGHV3-66*04

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



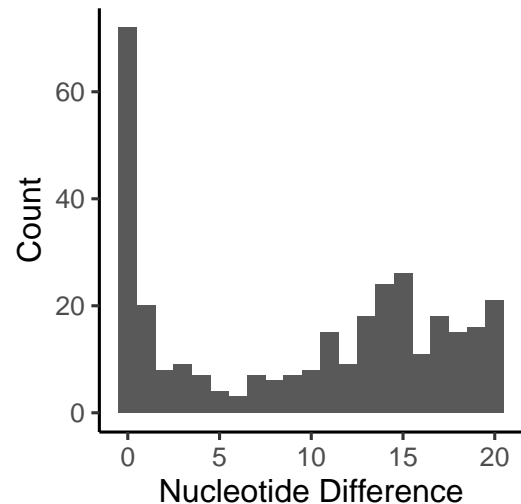
IGHV3-71*01

1 sequences assigned
No exact matches.



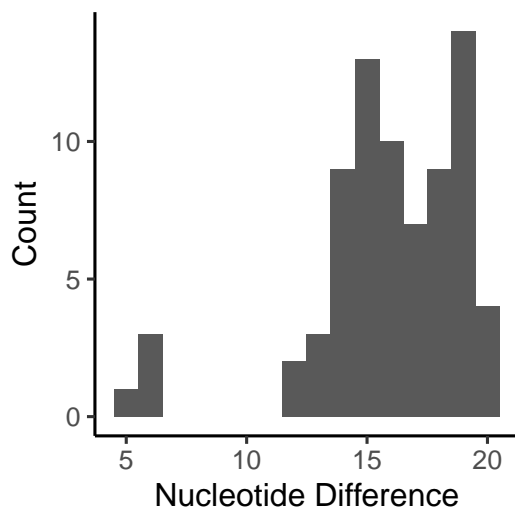
IGHV3-74*01

661 sequences assigned
72 (10.9%) exact matches, in which:
72 unique CDR3
7 unique J



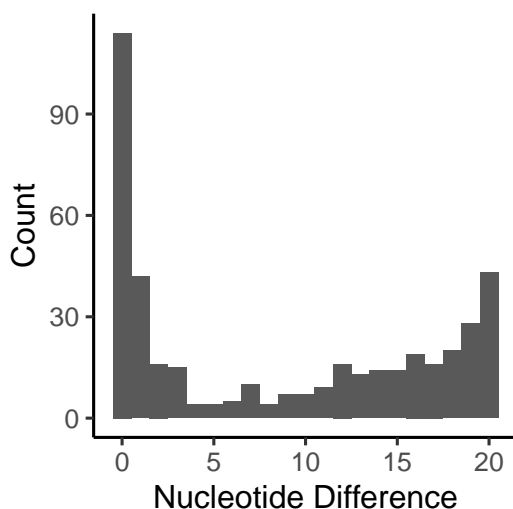
IGHV3-74*03

125 sequences assigned
No exact matches.



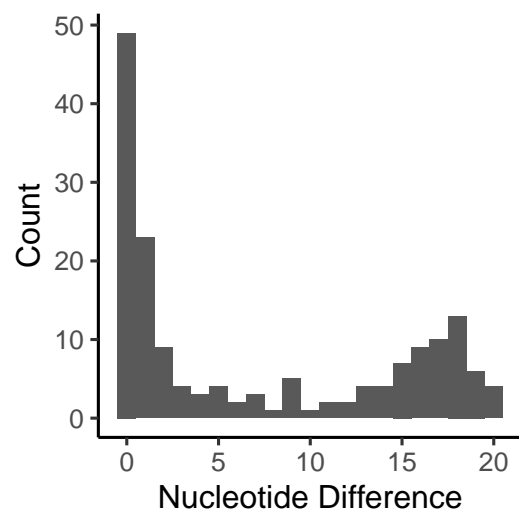
IGHV4-4*02

772 sequences assigned
114 (14.8%) exact matches, in which:
113 unique CDR3
6 unique J



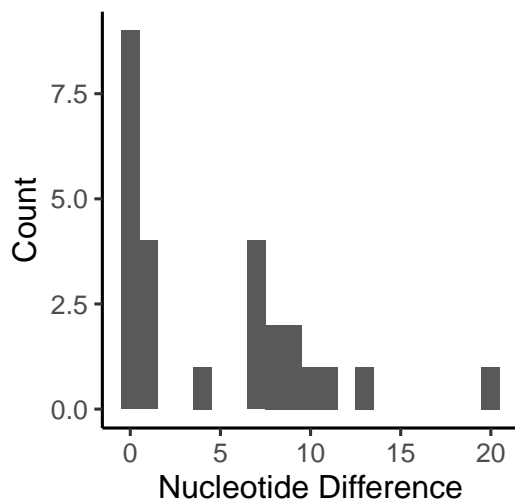
IGHV4-30-2*01

306 sequences assigned
49 (16%) exact matches, in which:
49 unique CDR3
7 unique J



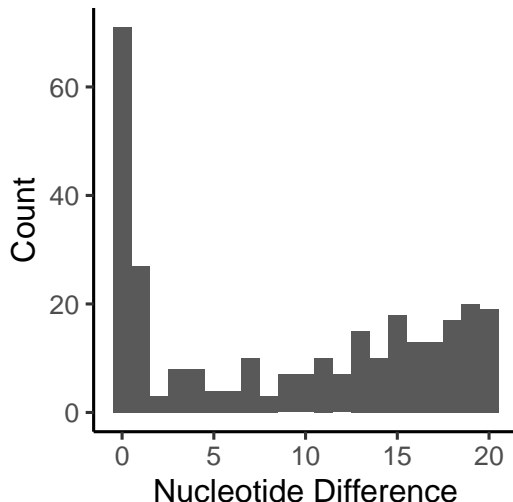
IGHV3-43D*04

32 sequences assigned
9 (28.1%) exact matches, in which:
9 unique CDR3
3 unique J



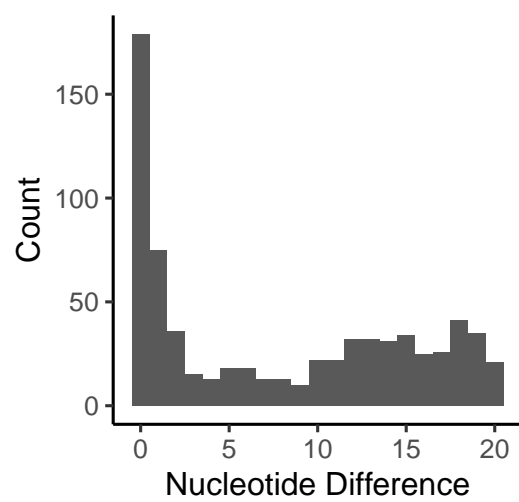
IGHV4-4*07

810 sequences assigned
71 (8.8%) exact matches, in which:
70 unique CDR3
6 unique J



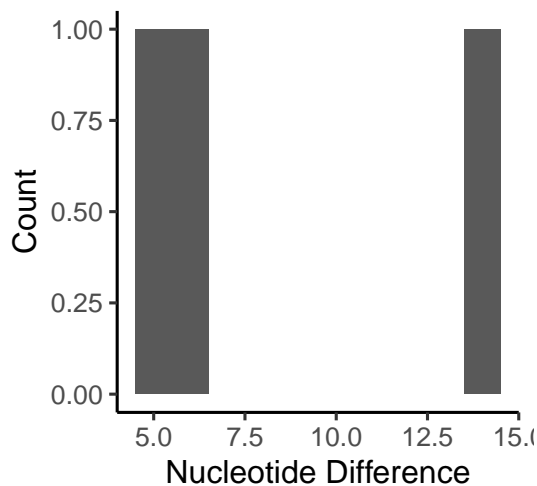
IGHV4-31*03

1154 sequences assigned
179 (15.5%) exact matches, in which:
176 unique CDR3
7 unique J



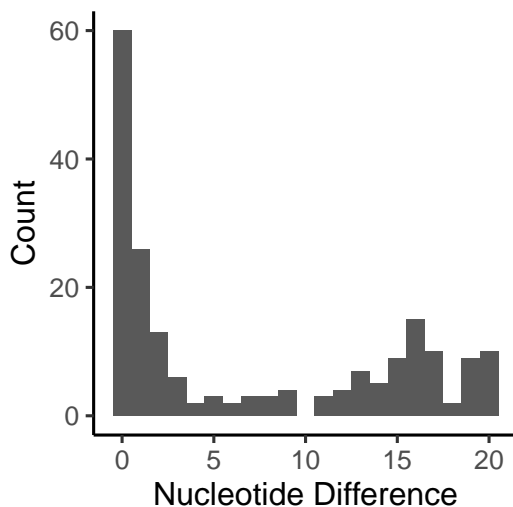
IGHV3-64D*08

3 sequences assigned
No exact matches.



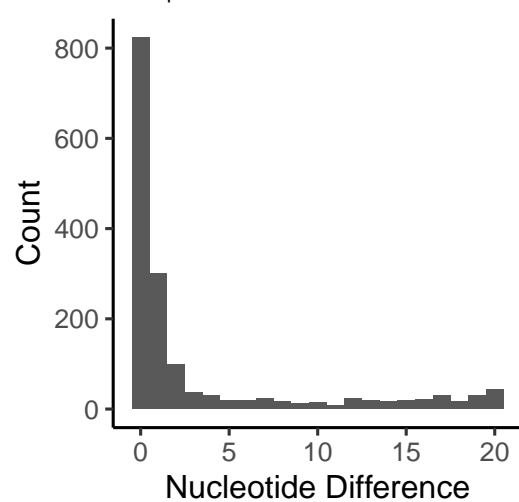
IGHV4-30-4*01

321 sequences assigned
60 (18.7%) exact matches, in which:
60 unique CDR3
6 unique J



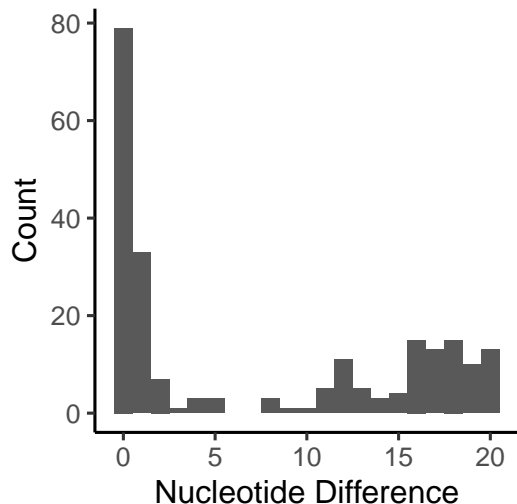
IGHV4-34*01

2014 sequences assigned
824 (40.9%) exact matches, in which:
815 unique CDR3
7 unique J



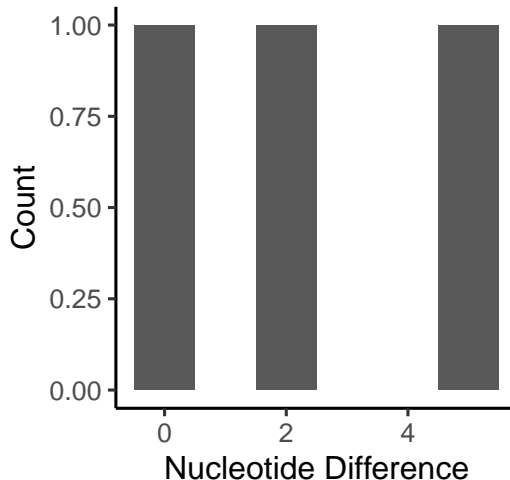
IGHV4-38-2*01

514 sequences assigned
79 (15.4%) exact matches, in which:
79 unique CDR3
5 unique J



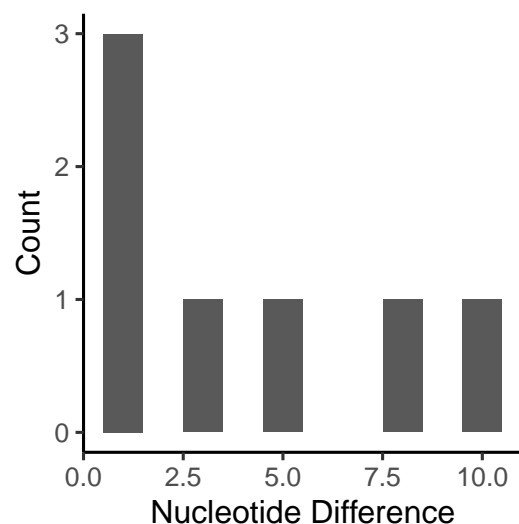
IGHV4-55*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



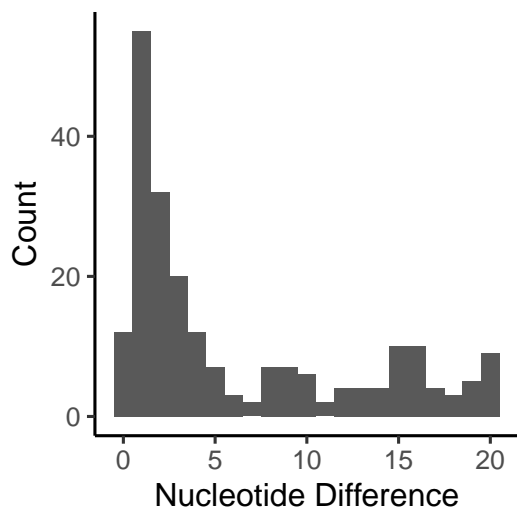
IGHV1/OR15-1*04

8 sequences assigned
No exact matches.



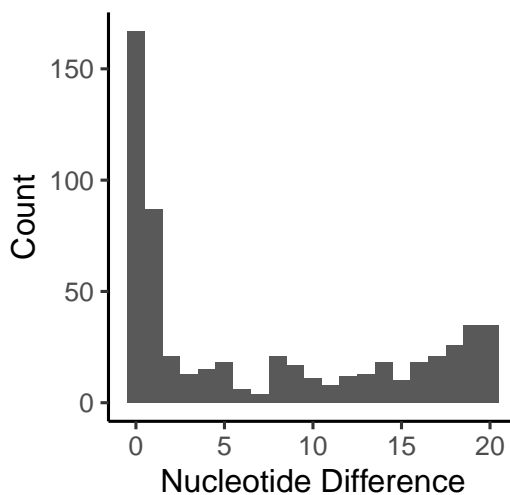
IGHV4-38-2*02

354 sequences assigned
12 (3.4%) exact matches, in which:
12 unique CDR3
4 unique J



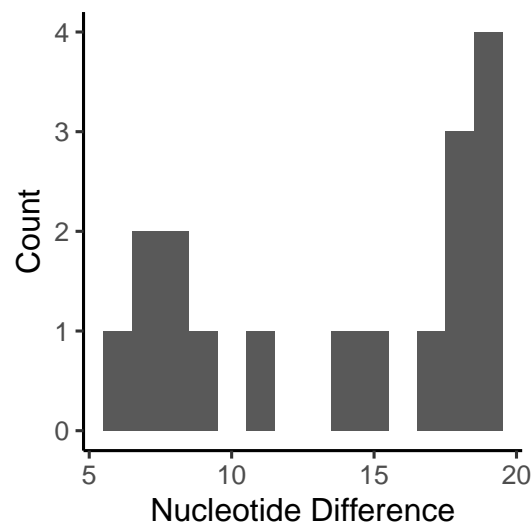
IGHV4-59*01

968 sequences assigned
167 (17.3%) exact matches, in which:
167 unique CDR3
7 unique J



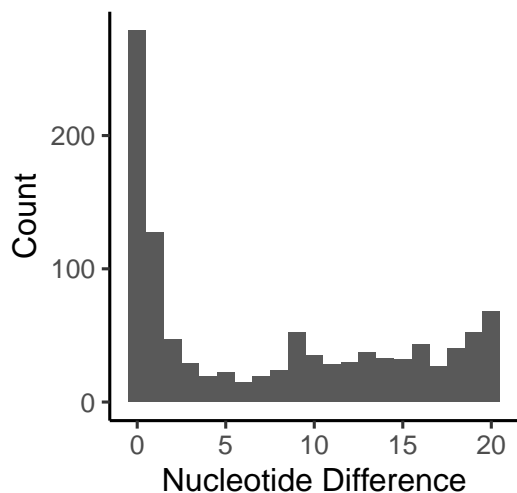
IGHV4/OR15-8*02

33 sequences assigned
No exact matches.



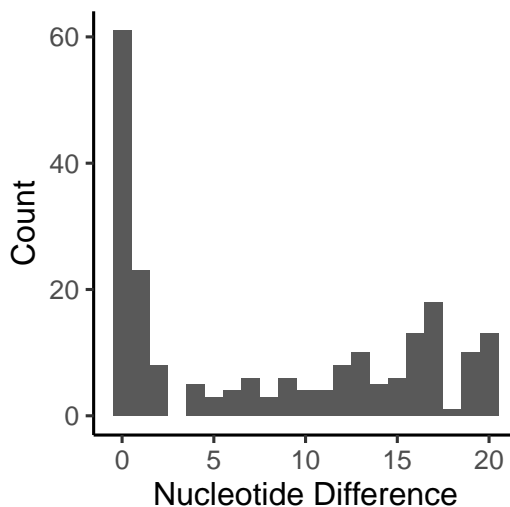
IGHV4-39*01

2061 sequences assigned
279 (13.5%) exact matches, in which:
277 unique CDR3
7 unique J



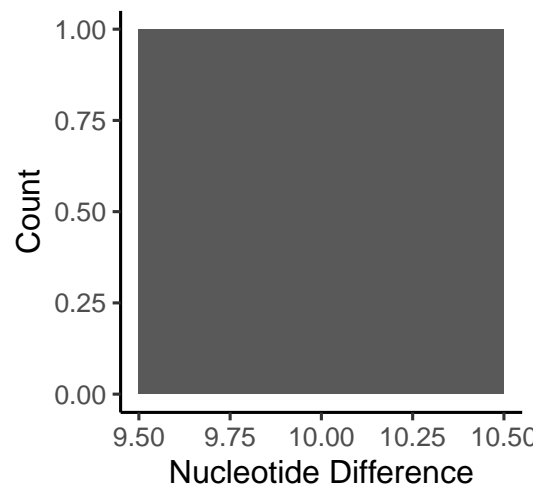
IGHV4-61*01

425 sequences assigned
61 (14.4%) exact matches, in which:
61 unique CDR3
7 unique J



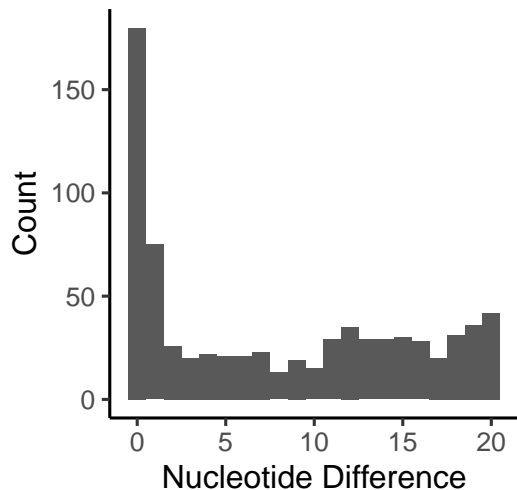
IGHV5-10-1*03

1 sequences assigned
No exact matches.



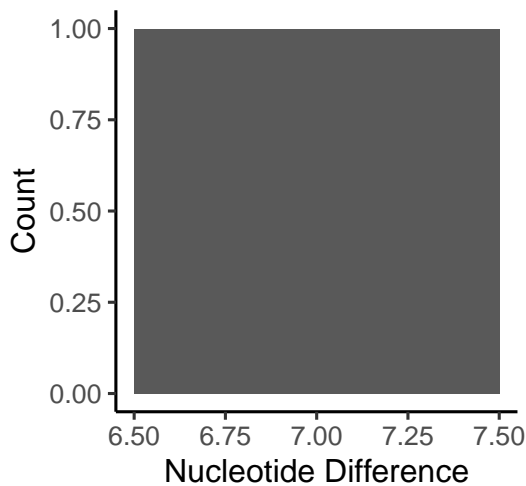
IGHV5–51*01

1177 sequences assigned
180 (15.3%) exact matches, in which:
178 unique CDR3
7 unique J



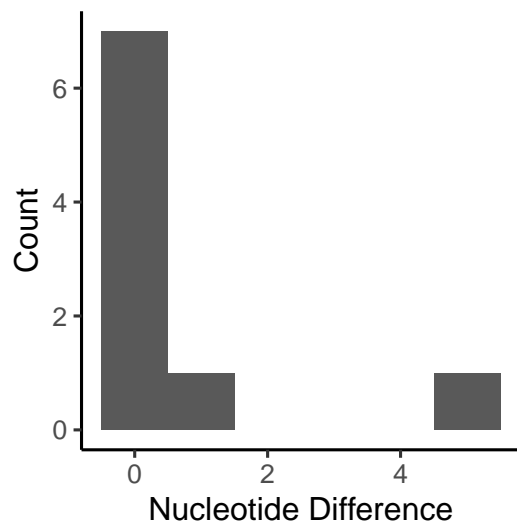
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



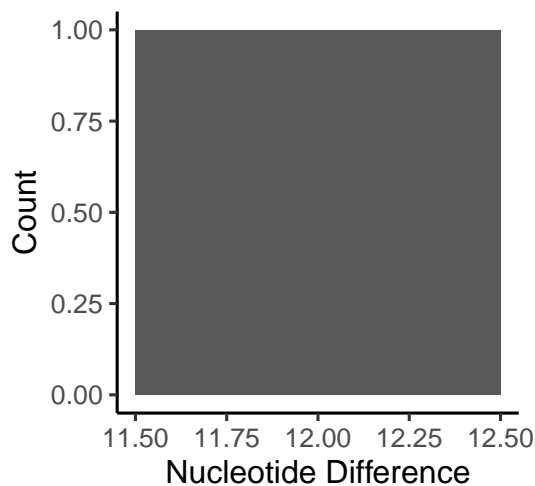
IGHV7–4–1*01

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
4 unique J



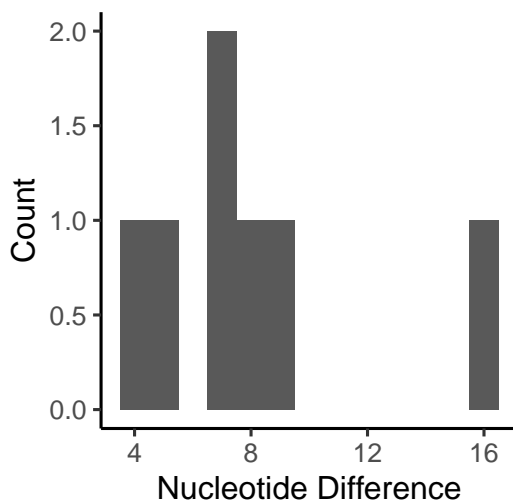
IGHV5–78*01

1 sequences assigned
No exact matches.



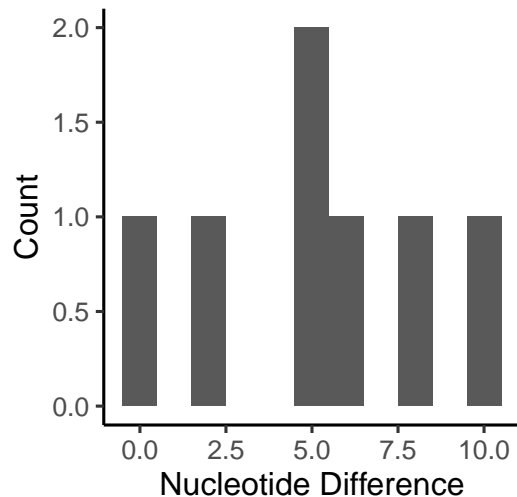
IGHV3/OR16–9*01

7 sequences assigned
No exact matches.



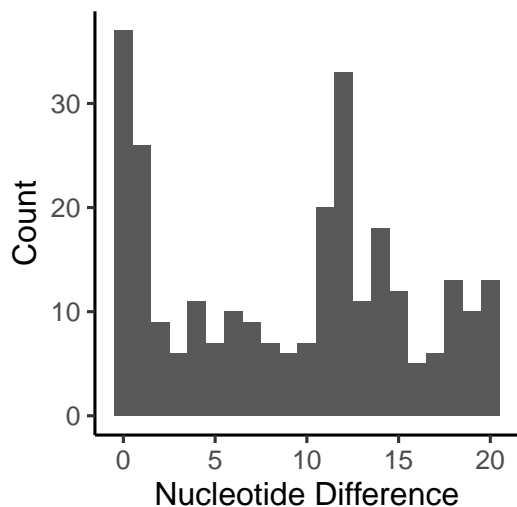
IGHV7–4–1*02

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



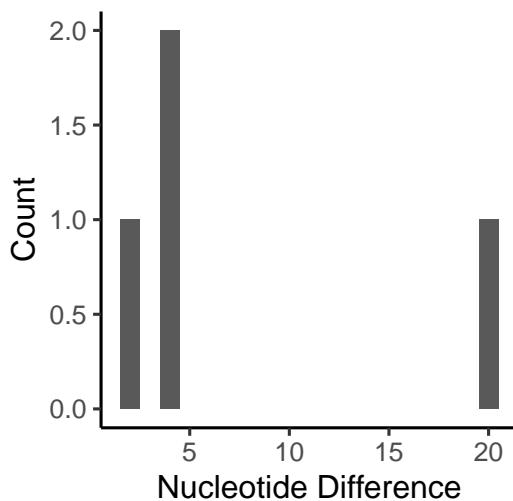
IGHV6–1*01

425 sequences assigned
37 (8.7%) exact matches, in which:
37 unique CDR3
6 unique J



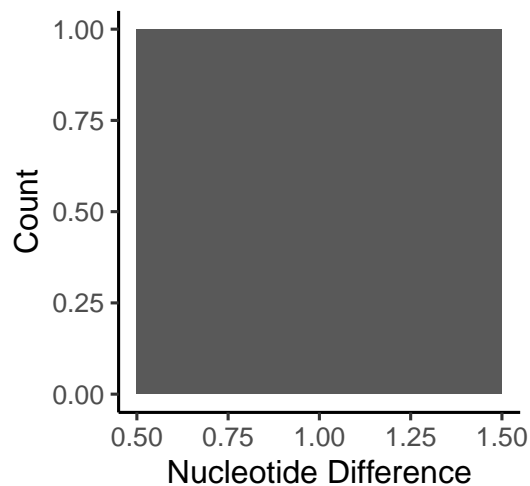
IGHV3/OR16–12*01

5 sequences assigned
No exact matches.

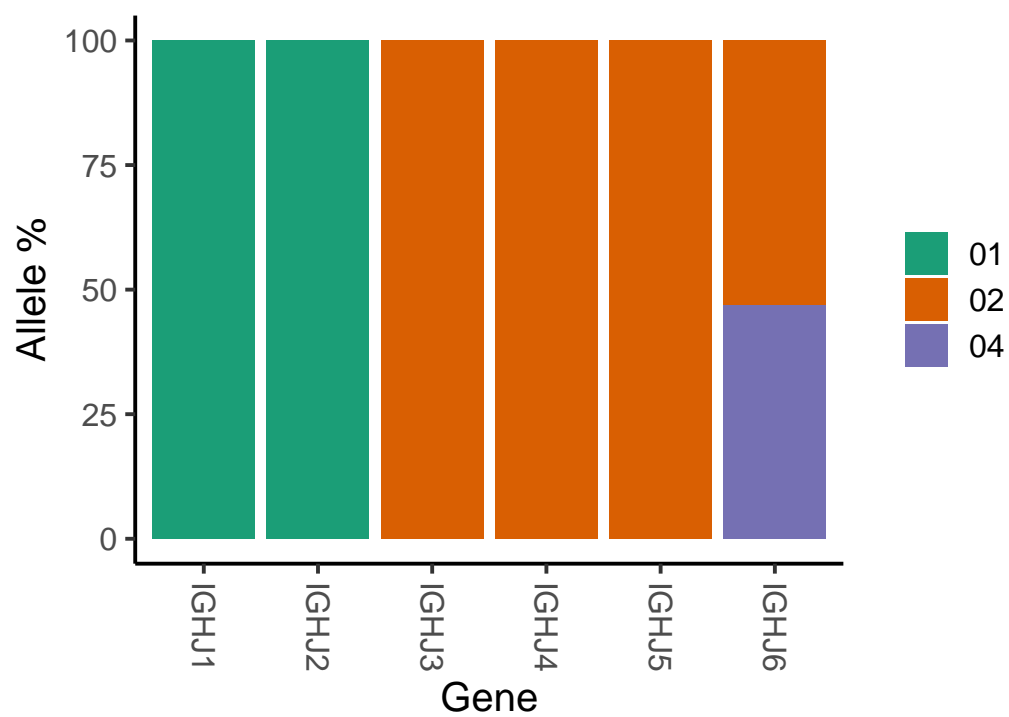


IGHV7–81*01

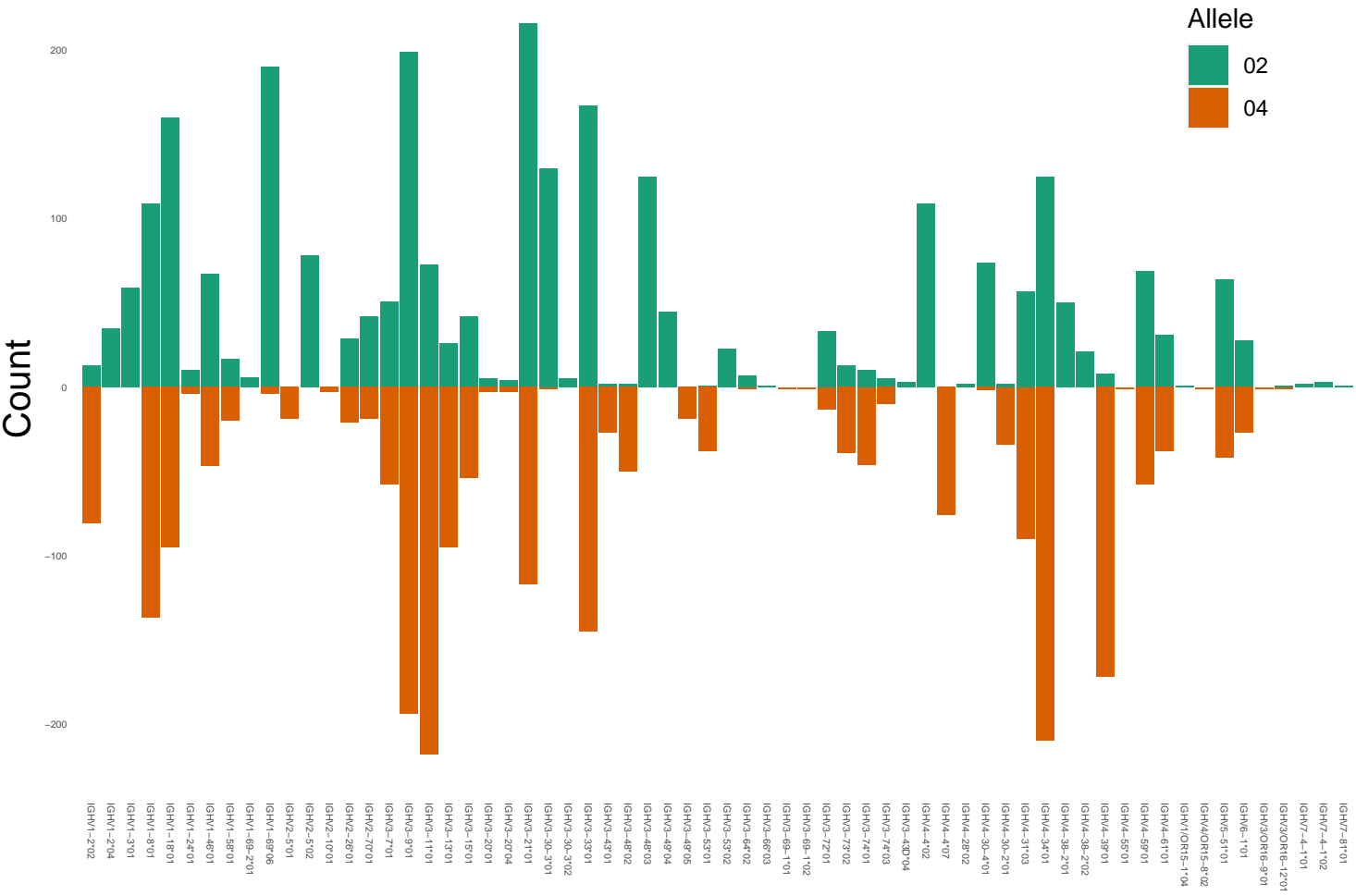
1 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.