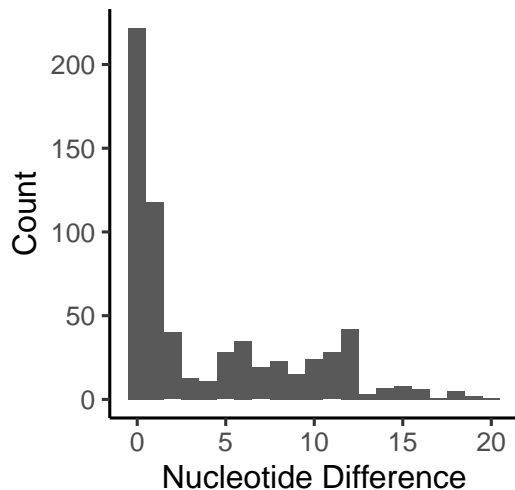


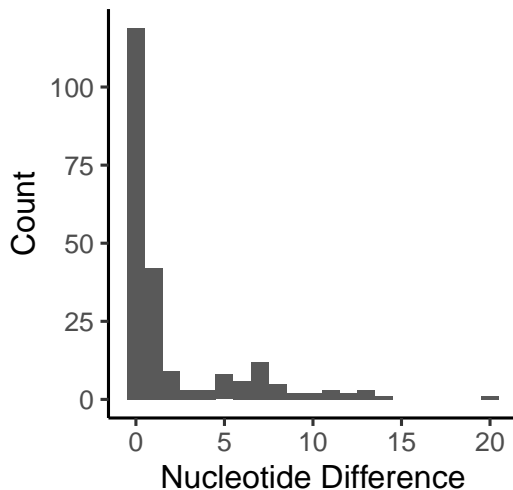
IGHV1-2*02

663 sequences assigned
222 (33.5%) exact matches, in which:
218 unique CDR3
7 unique J



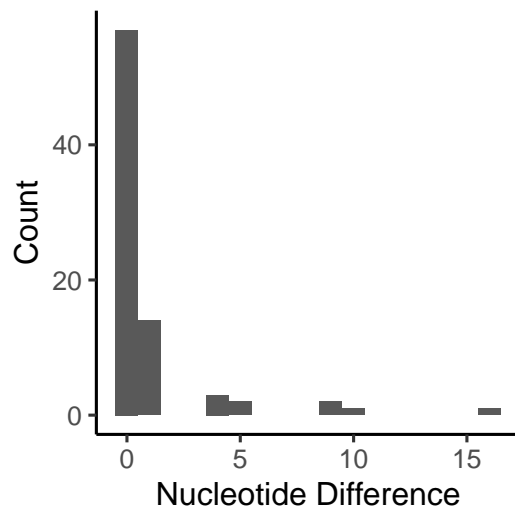
IGHV1-8*01

249 sequences assigned
119 (47.8%) exact matches, in which:
112 unique CDR3
7 unique J



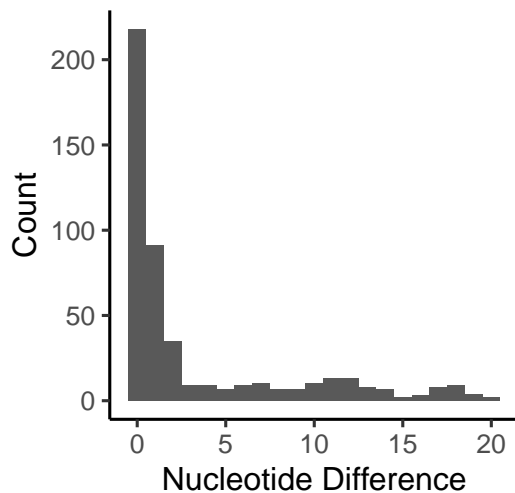
IGHV1-24*01

81 sequences assigned
57 (70.4%) exact matches, in which:
57 unique CDR3
6 unique J



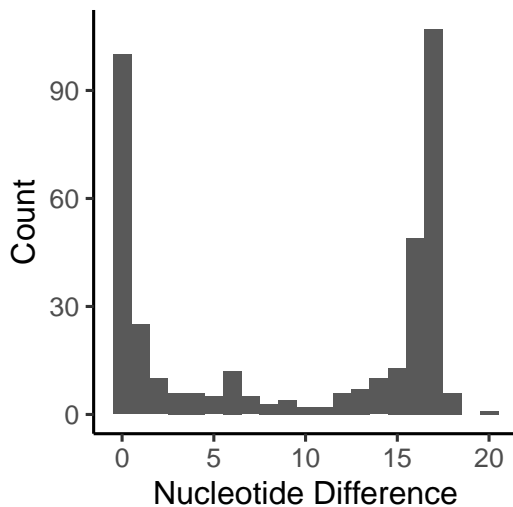
IGHV1-2*06

493 sequences assigned
218 (44.2%) exact matches, in which:
208 unique CDR3
7 unique J



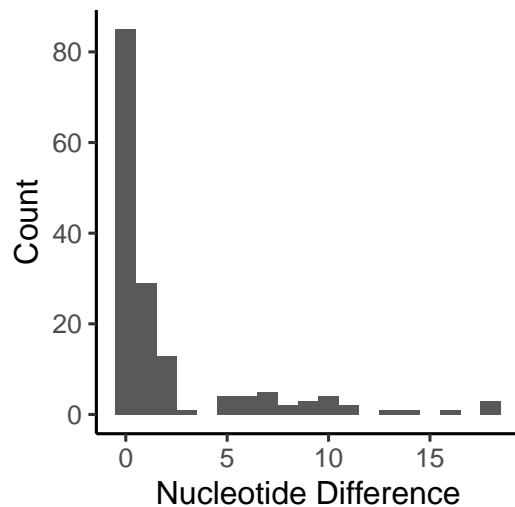
IGHV1-18*01

391 sequences assigned
100 (25.6%) exact matches, in which:
98 unique CDR3
6 unique J



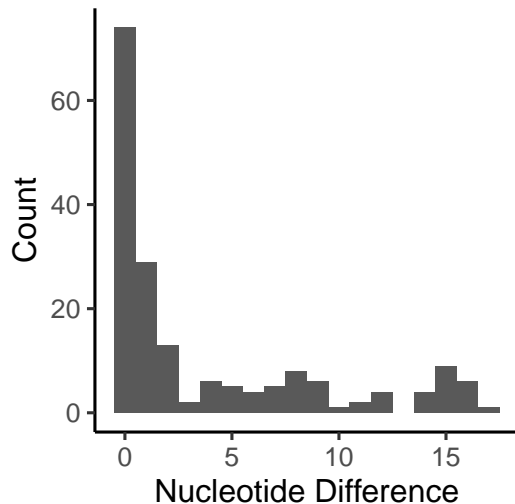
IGHV1-46*01

163 sequences assigned
85 (52.1%) exact matches, in which:
79 unique CDR3
6 unique J



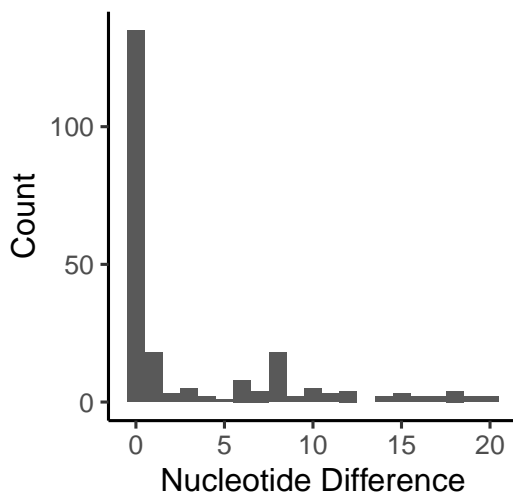
IGHV1-3*01_05

183 sequences assigned
74 (40.4%) exact matches, in which:
64 unique CDR3
6 unique J



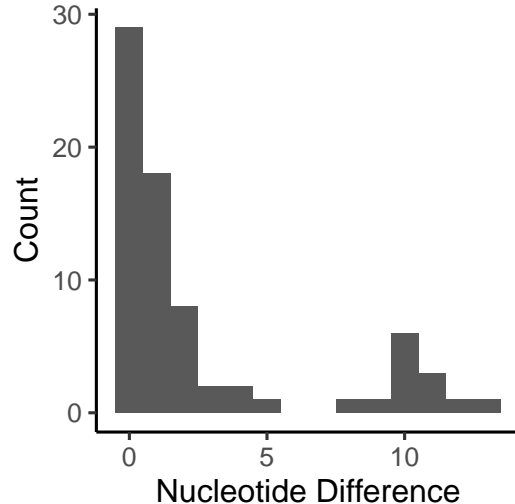
IGHV1-18*04

245 sequences assigned
135 (55.1%) exact matches, in which:
130 unique CDR3
5 unique J



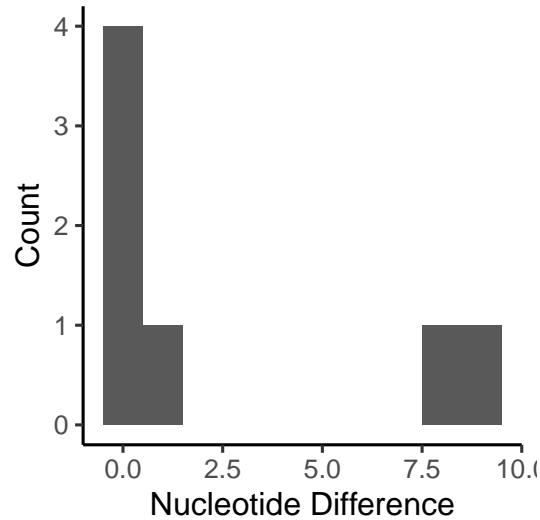
IGHV1-46*03

74 sequences assigned
29 (39.2%) exact matches, in which:
26 unique CDR3
5 unique J



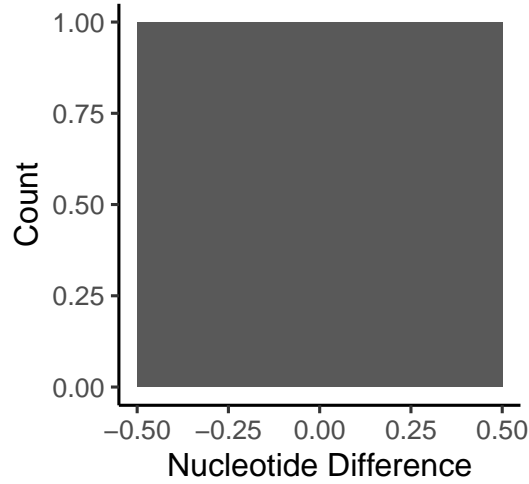
IGHV1-58*02

7 sequences assigned
4 (57.1%) exact matches, in which:
3 unique CDR3
2 unique J



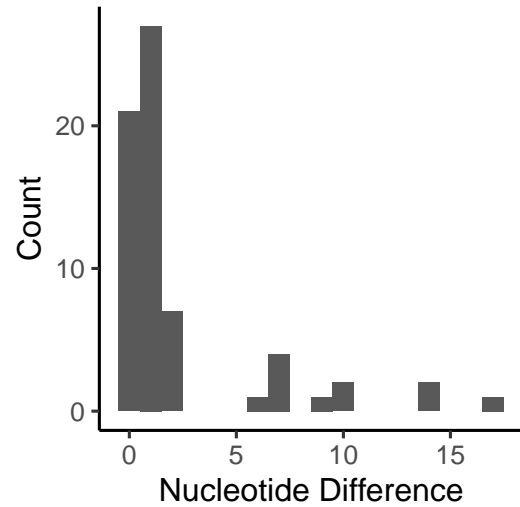
IGHV1-69-2*01

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



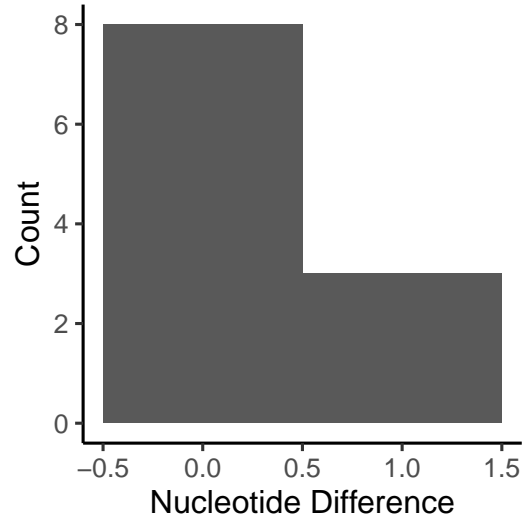
IGHV1-69*04_09

68 sequences assigned
21 (30.9%) exact matches, in which:
21 unique CDR3
6 unique J



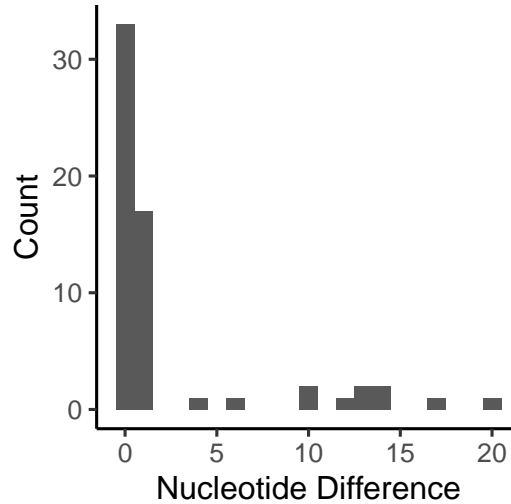
IGHV1-58*01_03

12 sequences assigned
8 (66.7%) exact matches, in which:
8 unique CDR3
3 unique J



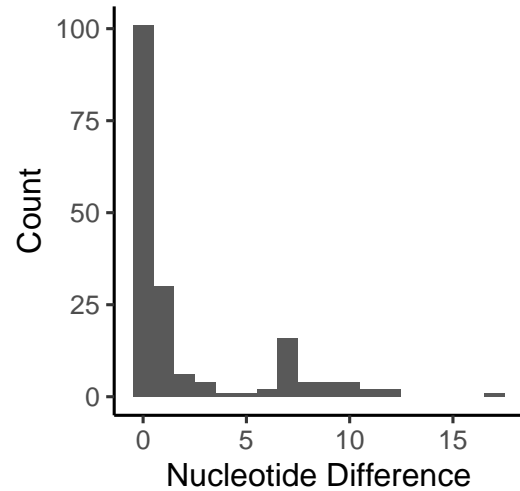
IGHV1-69*02

65 sequences assigned
33 (50.8%) exact matches, in which:
32 unique CDR3
7 unique J



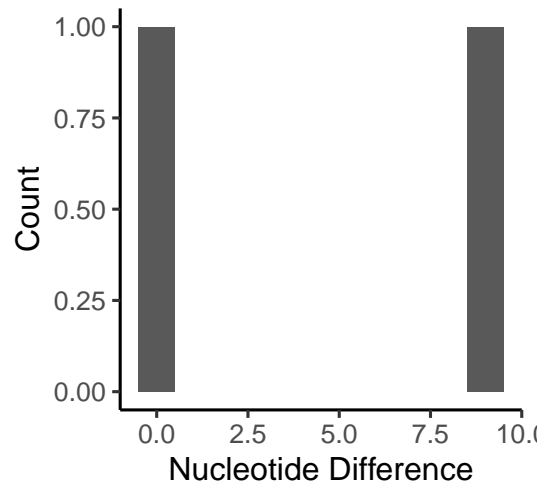
IGHV1-69*06_14

185 sequences assigned
101 (54.6%) exact matches, in which:
95 unique CDR3
6 unique J



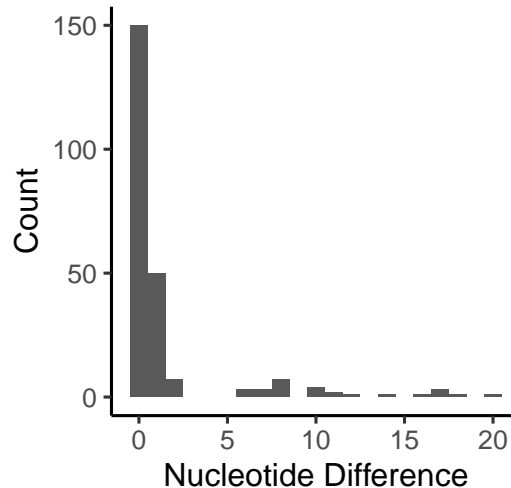
IGHV1-68*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



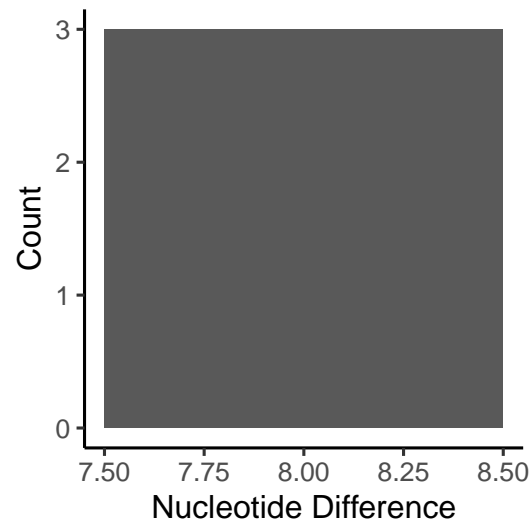
IGHV1-69*01_12_13

240 sequences assigned
150 (62.5%) exact matches, in which:
146 unique CDR3
7 unique J



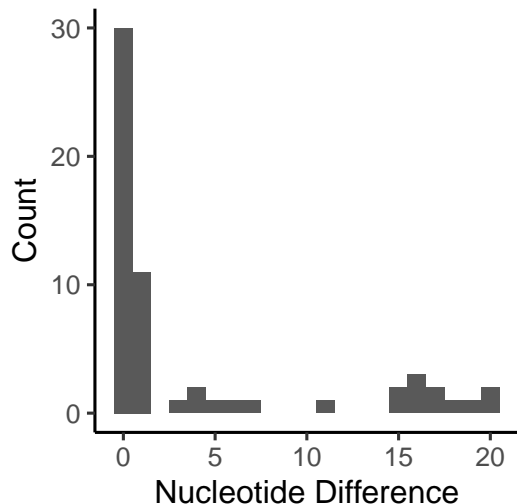
IGHV1-NL1*01

3 sequences assigned
No exact matches.



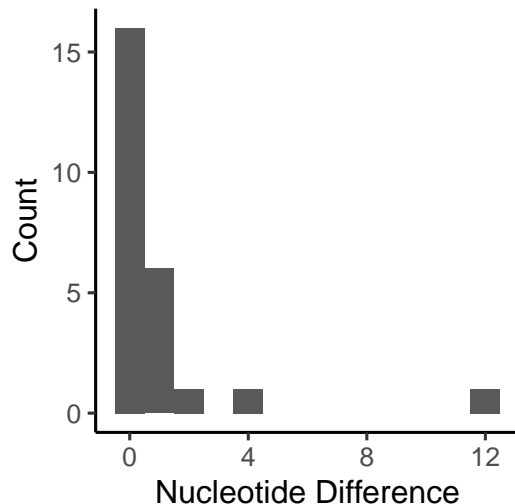
IGHV2-5*01

63 sequences assigned
30 (47.6%) exact matches, in which:
29 unique CDR3
5 unique J



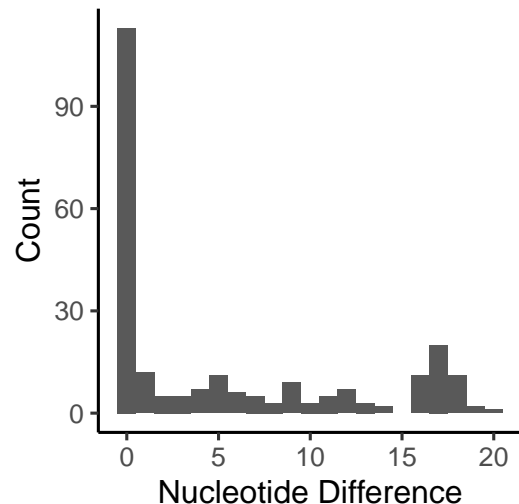
IGHV2-70*01

26 sequences assigned
16 (61.5%) exact matches, in which:
15 unique CDR3
5 unique J



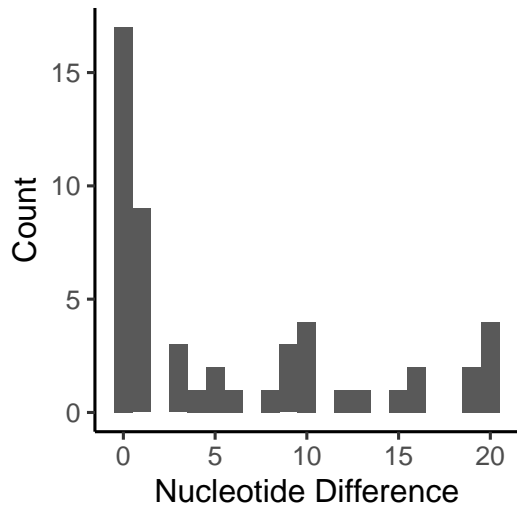
IGHV3-7*03

327 sequences assigned
113 (34.6%) exact matches, in which:
70 unique CDR3
7 unique J



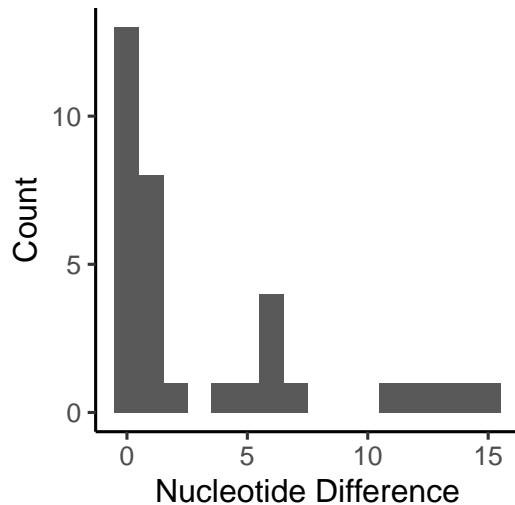
IGHV2-5*02

53 sequences assigned
17 (32.1%) exact matches, in which:
16 unique CDR3
4 unique J



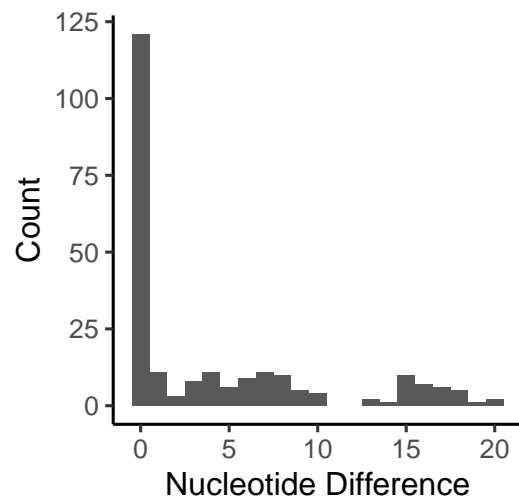
IGHV2-70*11_15

34 sequences assigned
13 (38.2%) exact matches, in which:
13 unique CDR3
4 unique J



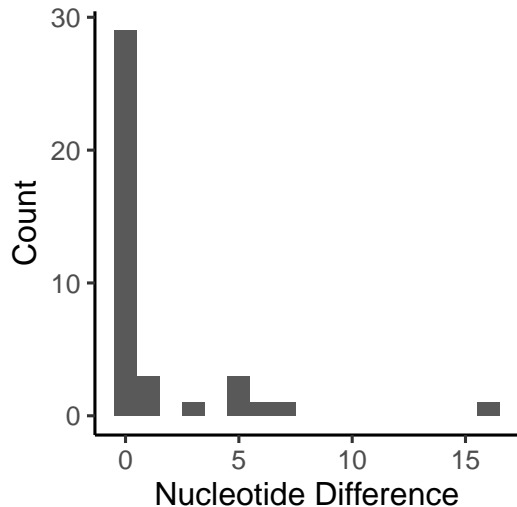
IGHV3-9*01

277 sequences assigned
121 (43.7%) exact matches, in which:
72 unique CDR3
5 unique J



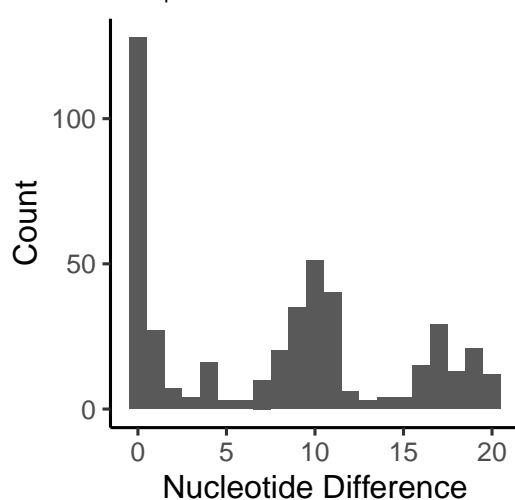
IGHV2-26*01

39 sequences assigned
29 (74.4%) exact matches, in which:
26 unique CDR3
5 unique J



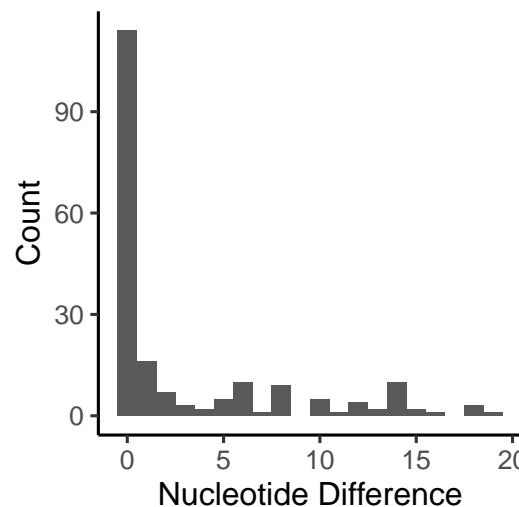
IGHV3-7*01

550 sequences assigned
128 (23.3%) exact matches, in which:
77 unique CDR3
7 unique J



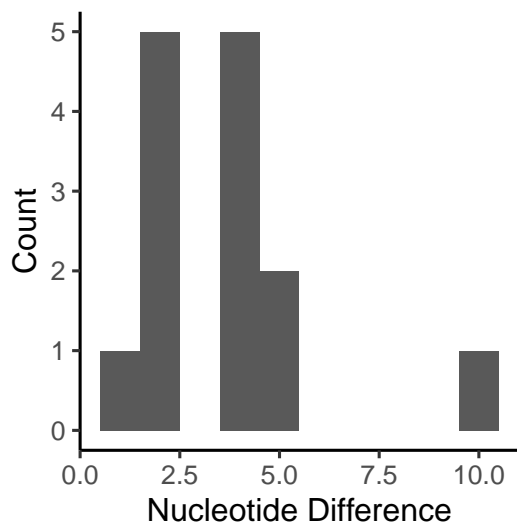
IGHV3-11*01

227 sequences assigned
114 (50.2%) exact matches, in which:
66 unique CDR3
4 unique J



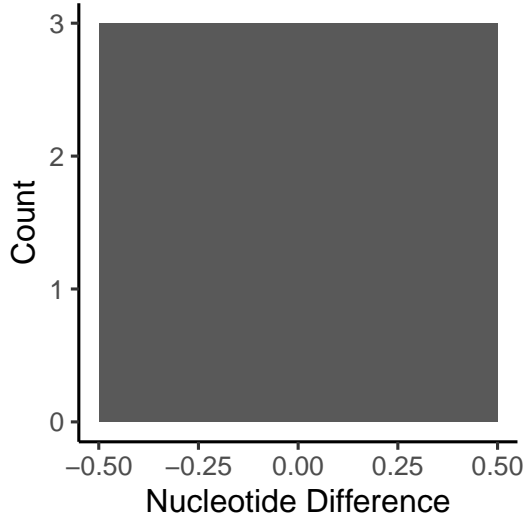
IGHV3-11*04

14 sequences assigned
No exact matches.



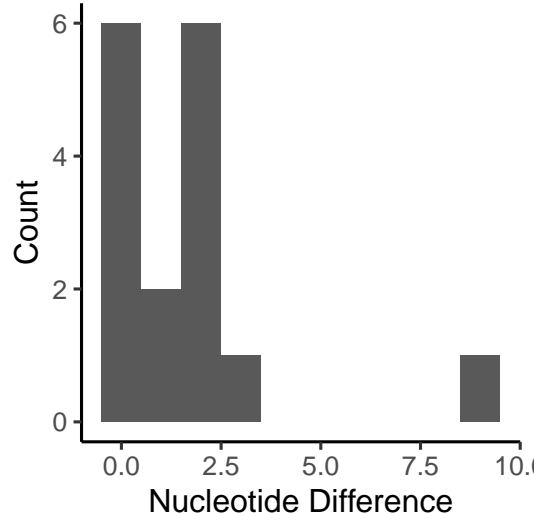
IGHV3-13*05

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
3 unique J



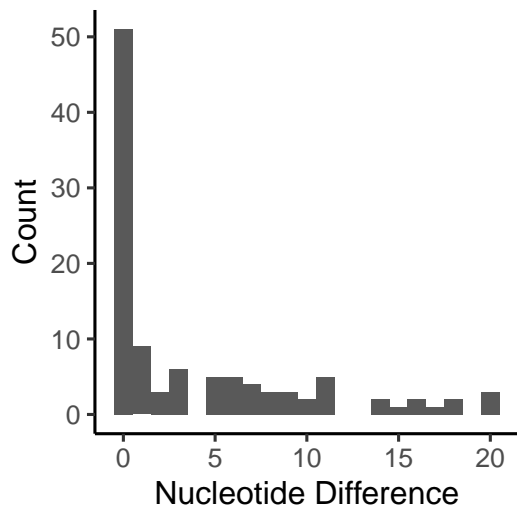
IGHV3-20*03_04

16 sequences assigned
6 (37.5%) exact matches, in which:
4 unique CDR3
2 unique J



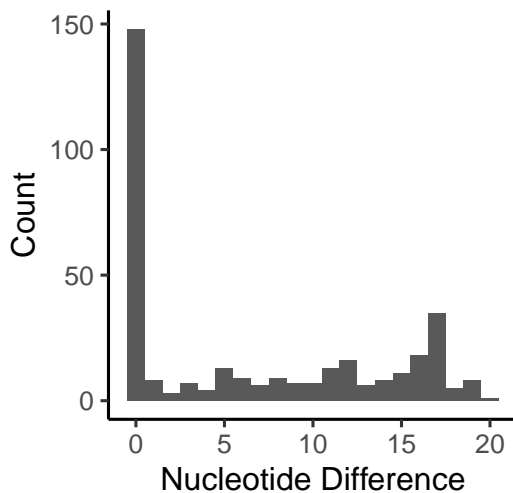
IGHV3-11*06

118 sequences assigned
51 (43.2%) exact matches, in which:
33 unique CDR3
6 unique J



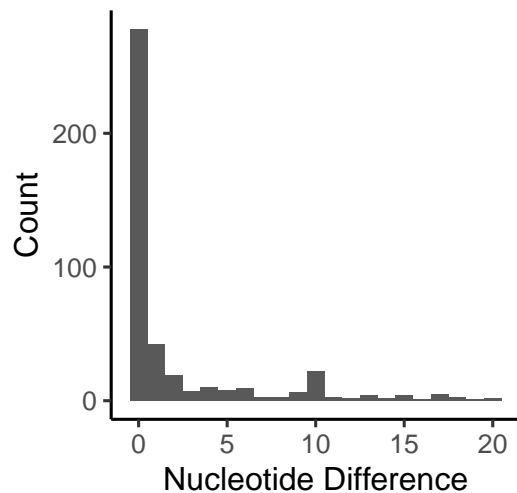
IGHV3-15*07

386 sequences assigned
148 (38.3%) exact matches, in which:
92 unique CDR3
6 unique J



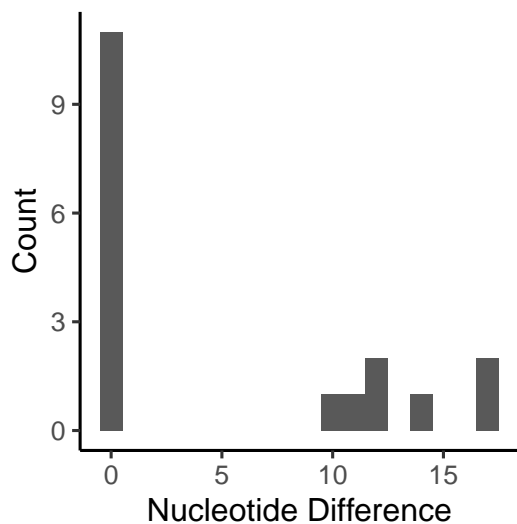
IGHV3-21*01_02

450 sequences assigned
278 (61.8%) exact matches, in which:
167 unique CDR3
7 unique J



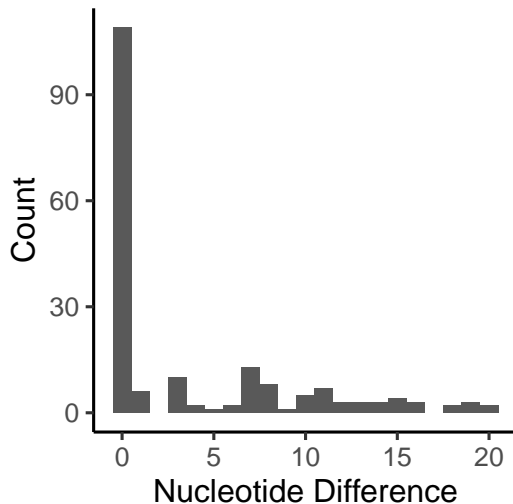
IGHV3-13*01

22 sequences assigned
11 (50%) exact matches, in which:
6 unique CDR3
3 unique J



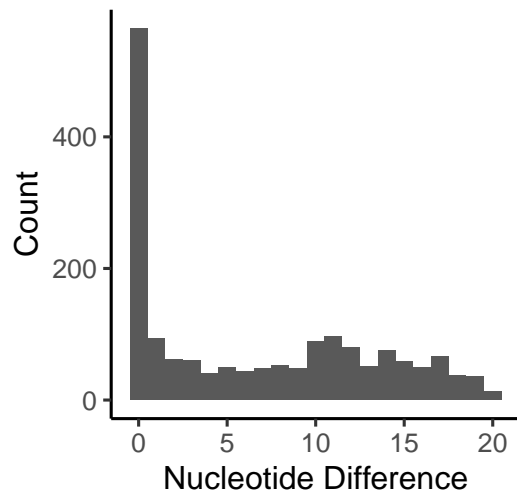
IGHV3-15*01_02

212 sequences assigned
109 (51.4%) exact matches, in which:
72 unique CDR3
7 unique J



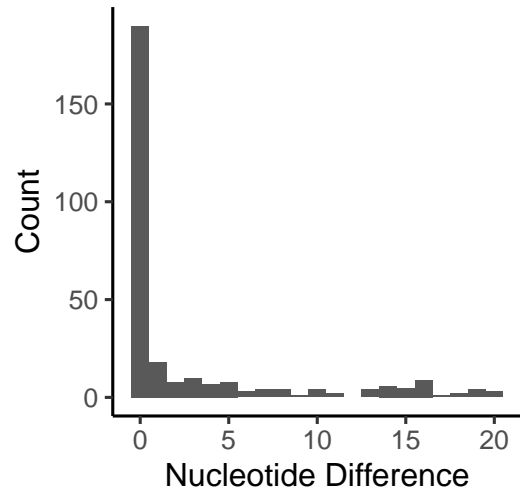
IGHV3-23*01_04

1925 sequences assigned
565 (29.4%) exact matches, in which:
324 unique CDR3
7 unique J



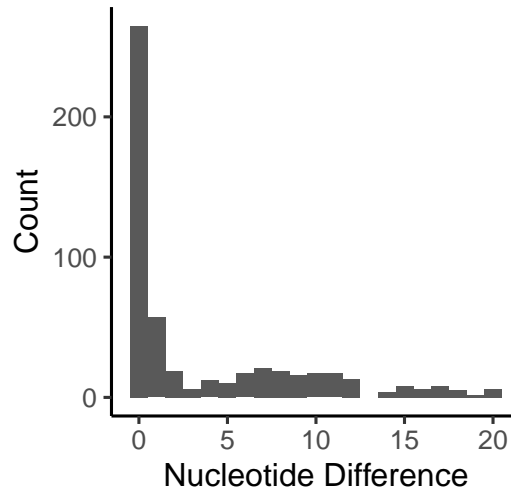
IGHV3–30*01

392 sequences assigned
190 (48.5%) exact matches, in which:
113 unique CDR3
7 unique J



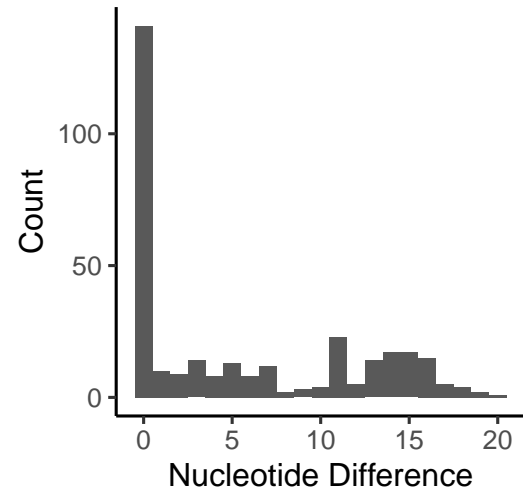
IGHV3–33*01

583 sequences assigned
265 (45.5%) exact matches, in which:
159 unique CDR3
7 unique J



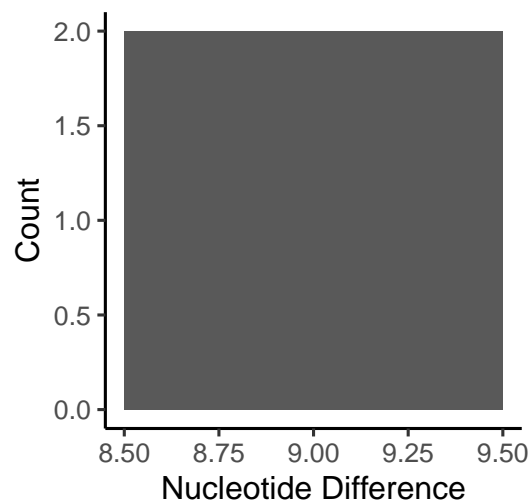
IGHV3–48*03

368 sequences assigned
141 (38.3%) exact matches, in which:
80 unique CDR3
6 unique J



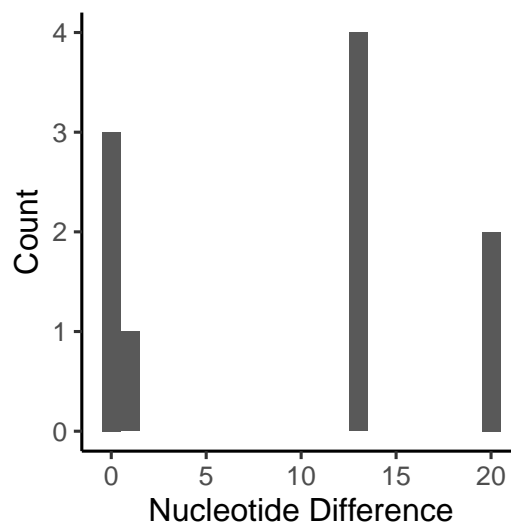
IGHV3–30–3*02

2 sequences assigned
No exact matches.



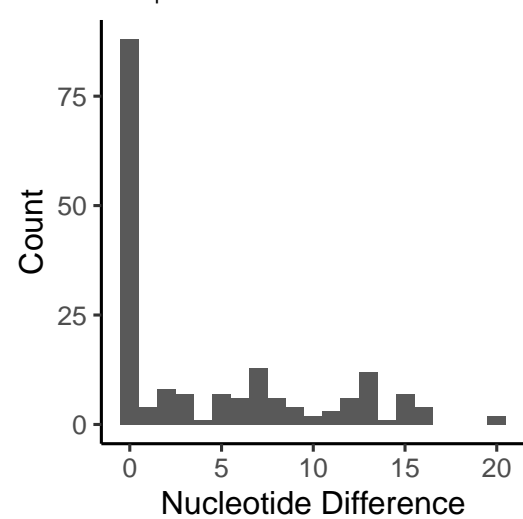
IGHV3–43*01

10 sequences assigned
3 (30%) exact matches, in which:
2 unique CDR3
1 unique J



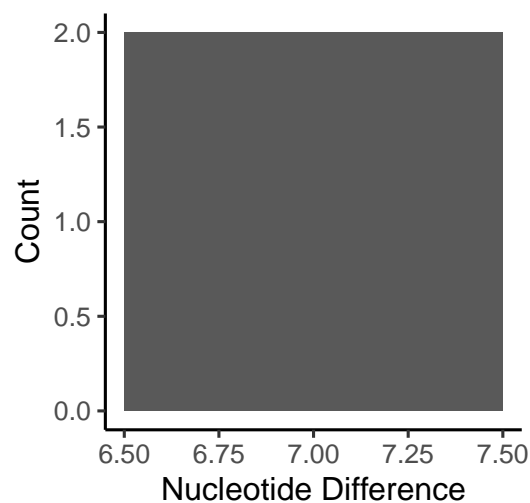
IGHV3–49*04

184 sequences assigned
88 (47.8%) exact matches, in which:
51 unique CDR3
6 unique J



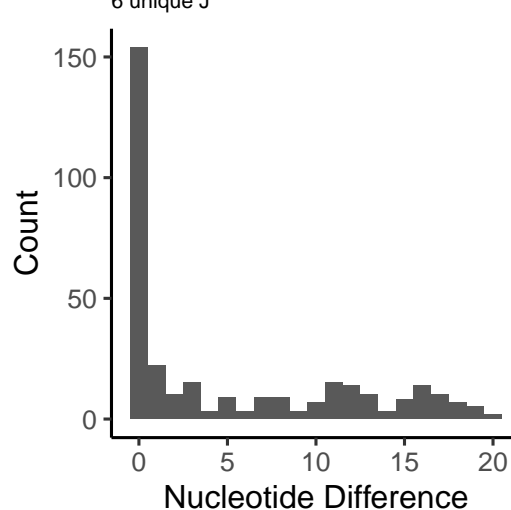
IGHV3–30–3*03

2 sequences assigned
No exact matches.



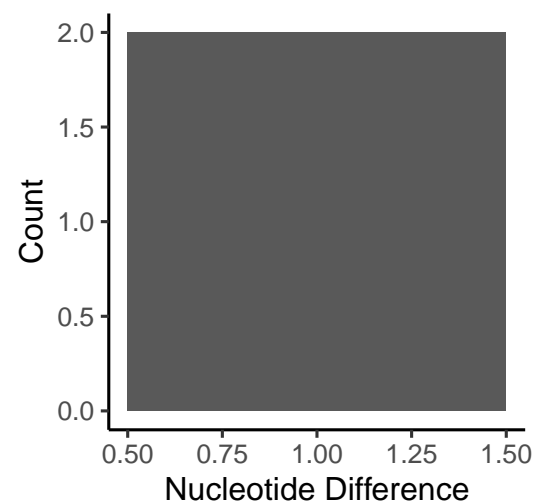
IGHV3–48*02

343 sequences assigned
154 (44.9%) exact matches, in which:
83 unique CDR3
6 unique J



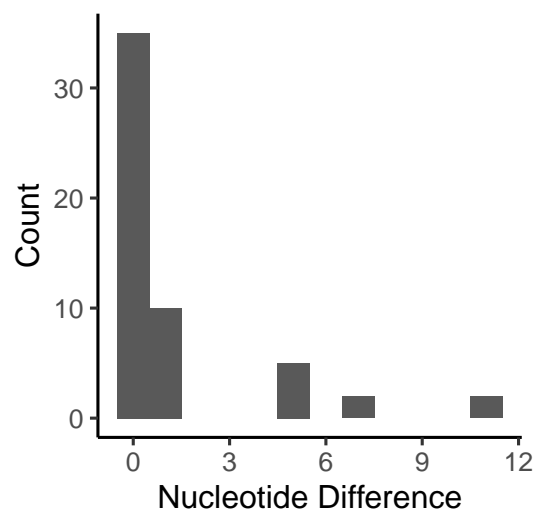
IGHV3–52*01_03

2 sequences assigned
No exact matches.



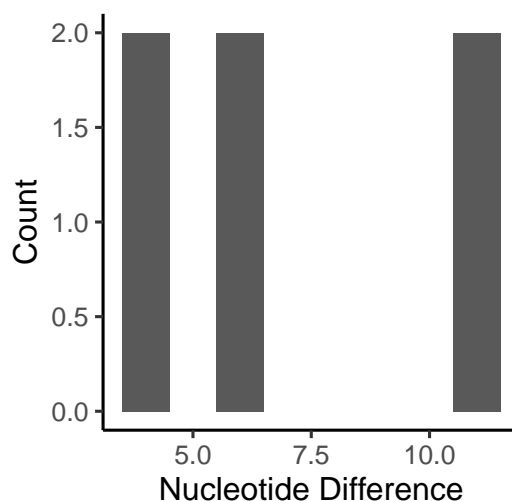
IGHV3-53*04

54 sequences assigned
35 (64.8%) exact matches, in which:
18 unique CDR3
4 unique J



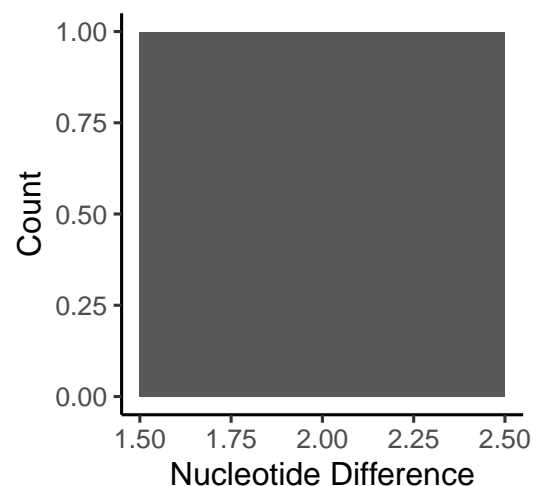
IGHV3-64*02_07

6 sequences assigned
No exact matches.



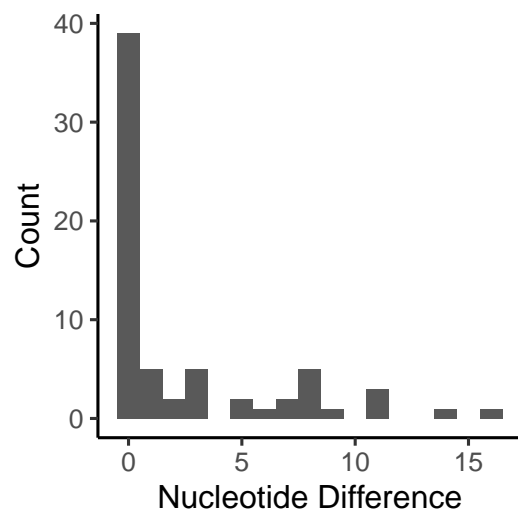
IGHV3-69-1*02

1 sequences assigned
No exact matches.



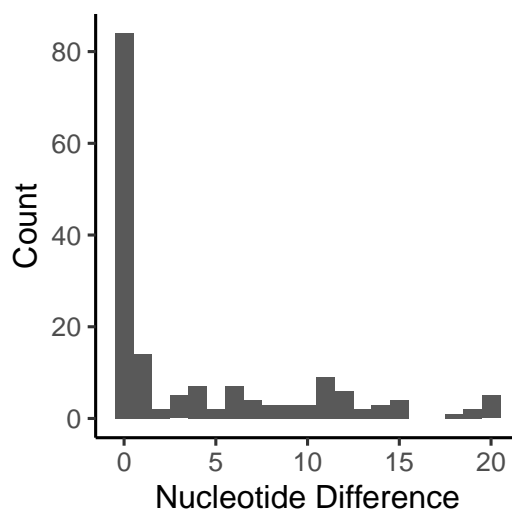
IGHV3-53*01_02

72 sequences assigned
39 (54.2%) exact matches, in which:
21 unique CDR3
4 unique J



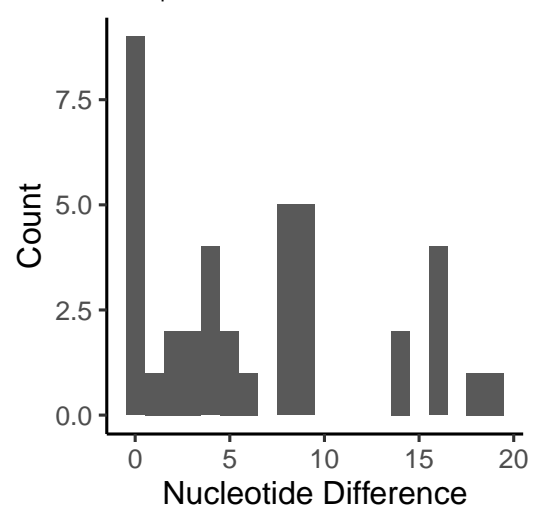
IGHV3-66*01

178 sequences assigned
84 (47.2%) exact matches, in which:
45 unique CDR3
6 unique J



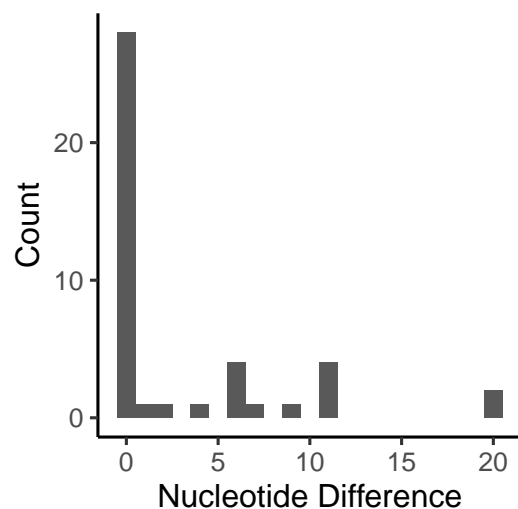
IGHV3-72*01

40 sequences assigned
9 (22.5%) exact matches, in which:
6 unique CDR3
4 unique J



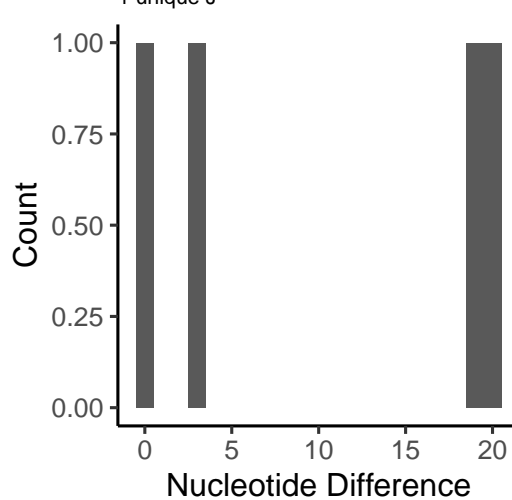
IGHV3-64*01

49 sequences assigned
28 (57.1%) exact matches, in which:
16 unique CDR3
3 unique J



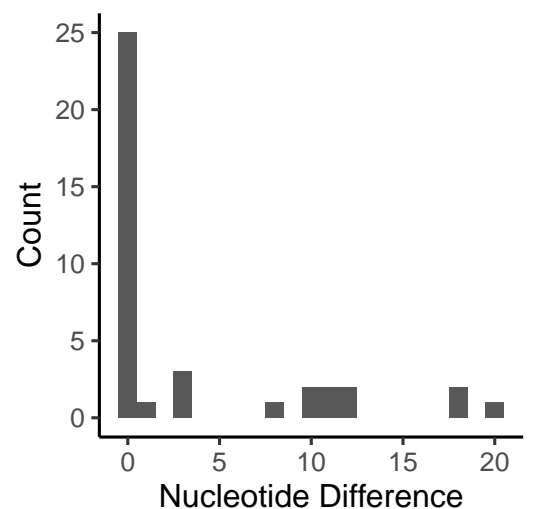
IGHV3-69-1*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



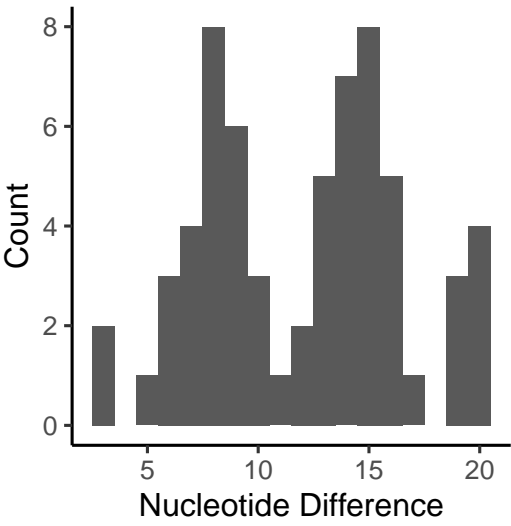
IGHV3-73*01_02

41 sequences assigned
25 (61%) exact matches, in which:
14 unique CDR3
4 unique J



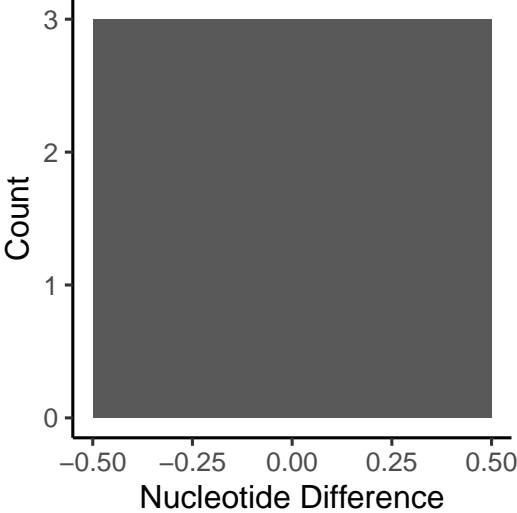
IGHV3-74*03

77 sequences assigned
No exact matches.



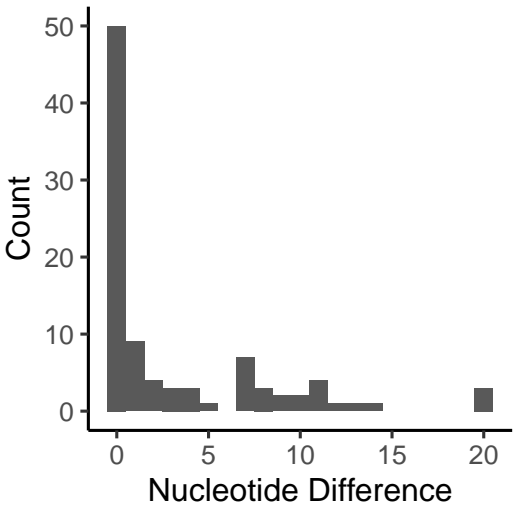
IGHV3-43D*04

3 sequences assigned
3 (100%) exact matches, in which:
2 unique CDR3
1 unique J



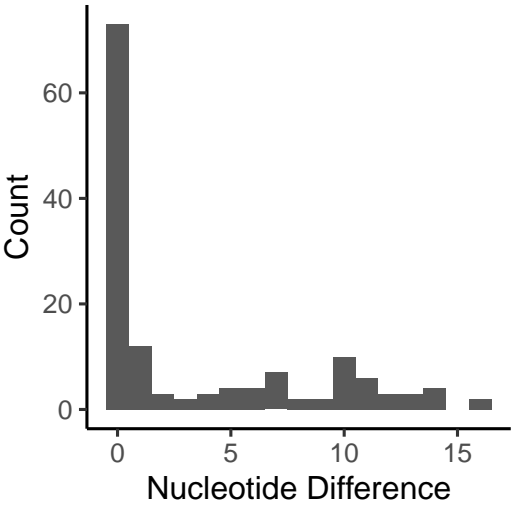
IGHV4-4*02_03

101 sequences assigned
50 (49.5%) exact matches, in which:
40 unique CDR3
4 unique J



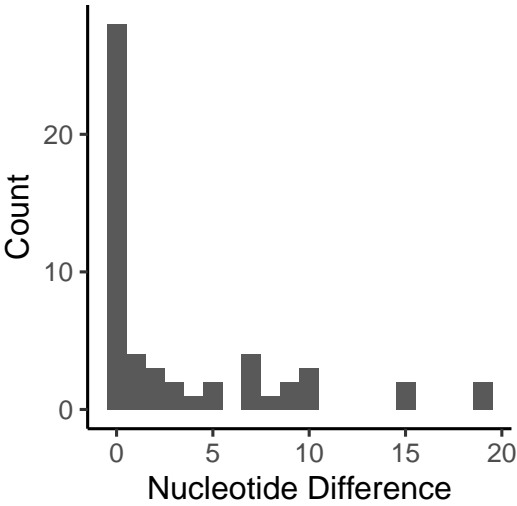
IGHV3-74*01_02

173 sequences assigned
73 (42.2%) exact matches, in which:
43 unique CDR3
6 unique J



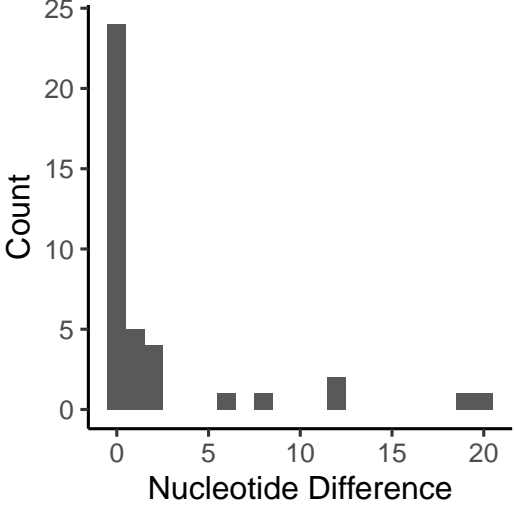
IGHV3-64D*06

69 sequences assigned
28 (40.6%) exact matches, in which:
15 unique CDR3
4 unique J



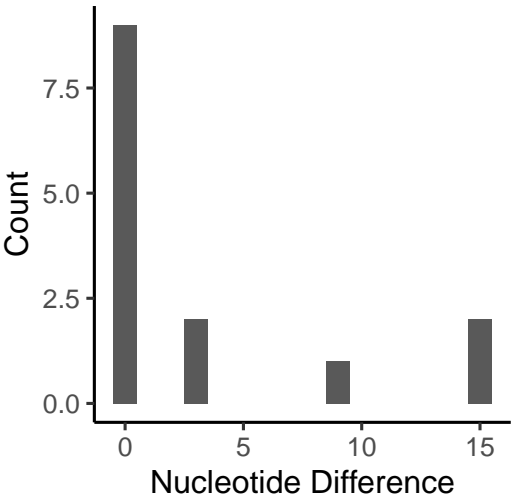
IGHV4-30-2*01

43 sequences assigned
24 (55.8%) exact matches, in which:
18 unique CDR3
5 unique J



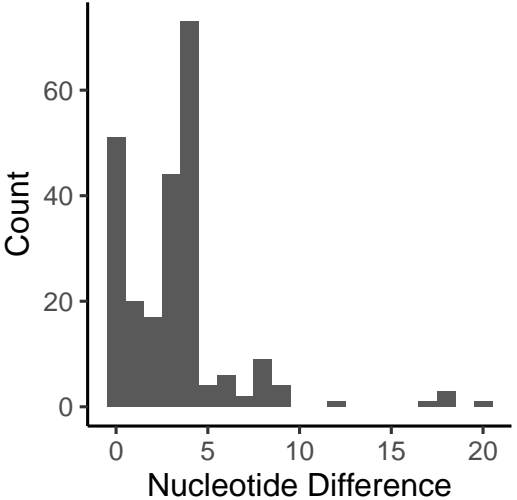
IGHV3-43D*03

16 sequences assigned
9 (56.2%) exact matches, in which:
6 unique CDR3
4 unique J



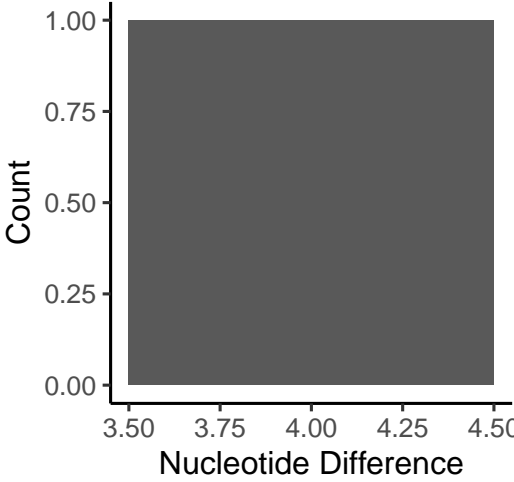
IGHV4-4*07

238 sequences assigned
51 (21.4%) exact matches, in which:
44 unique CDR3
6 unique J



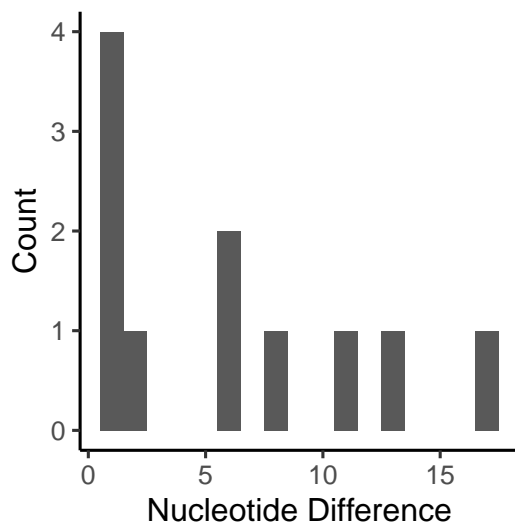
IGHV4-30-4*07

1 sequences assigned
No exact matches.



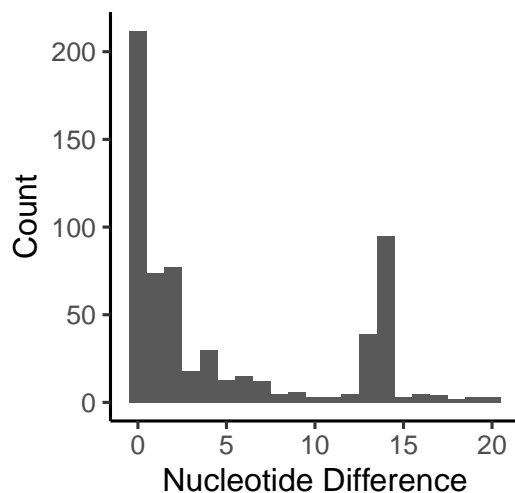
IGHV4-30-2*03_T288C

17 sequences assigned
No exact matches.



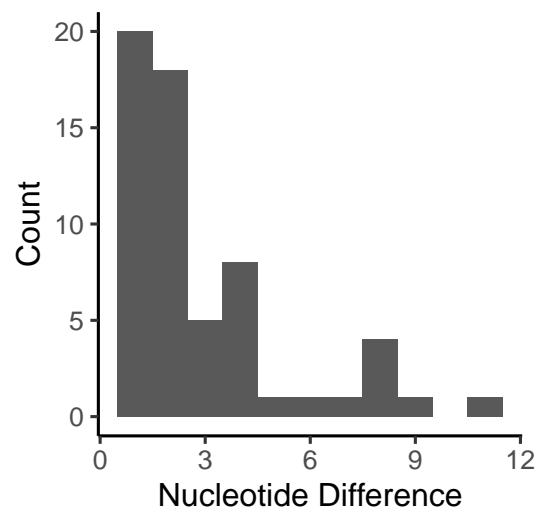
IGHV4-34*01_02

681 sequences assigned
212 (31.1%) exact matches, in which:
163 unique CDR3
7 unique J



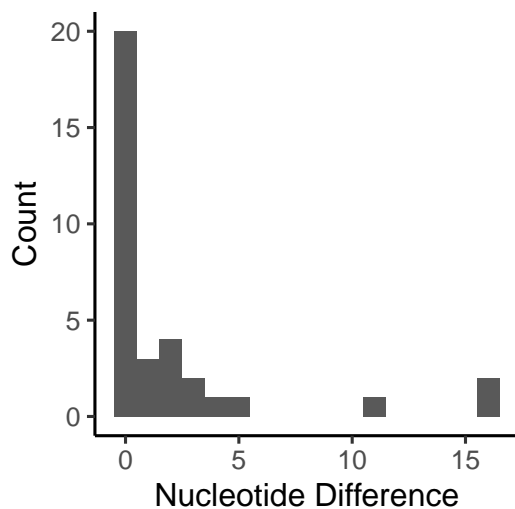
IGHV4-39*07

61 sequences assigned
No exact matches.



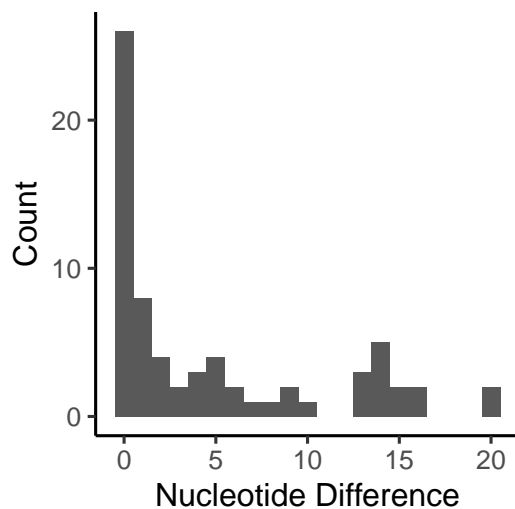
IGHV4-31*01

34 sequences assigned
20 (58.8%) exact matches, in which:
17 unique CDR3
5 unique J



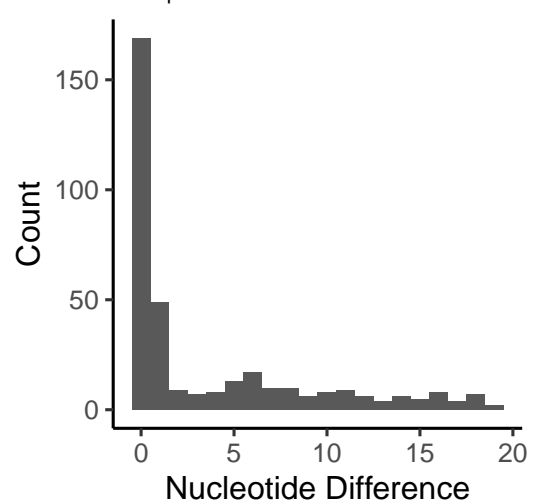
IGHV4-38-2*01

82 sequences assigned
26 (31.7%) exact matches, in which:
24 unique CDR3
4 unique J



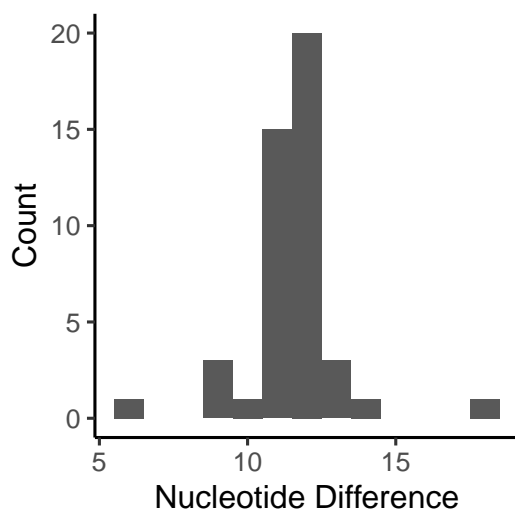
IGHV4-39*02_C258G

391 sequences assigned
169 (43.2%) exact matches, in which:
139 unique CDR3
7 unique J



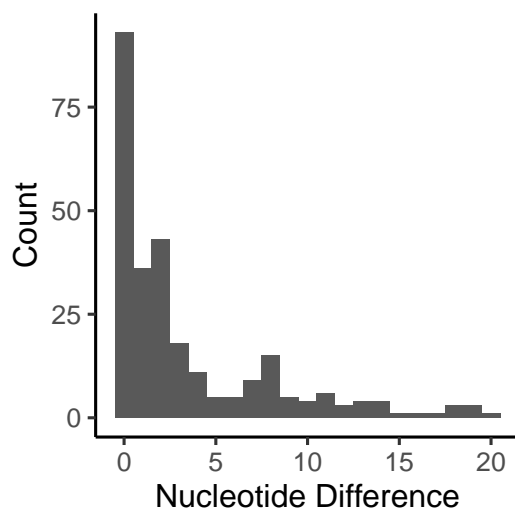
IGHV4-31*02

46 sequences assigned
No exact matches.



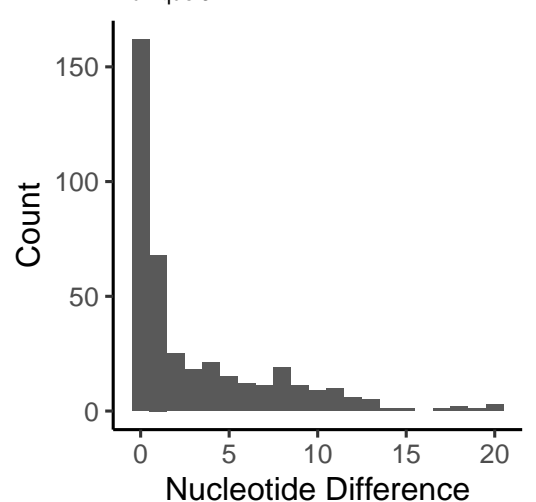
IGHV4-38-2*02

276 sequences assigned
93 (33.7%) exact matches, in which:
80 unique CDR3
6 unique J



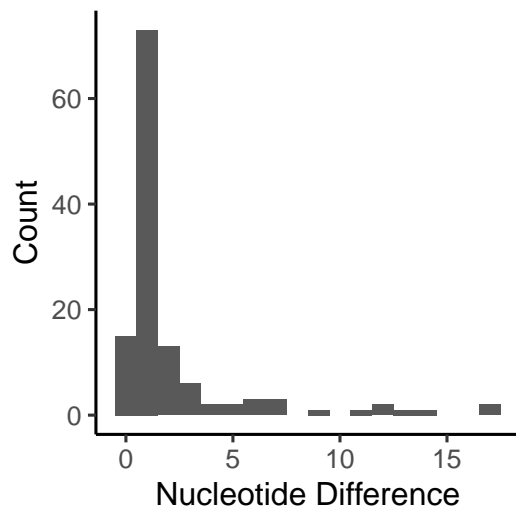
IGHV4-59*08

423 sequences assigned
162 (38.3%) exact matches, in which:
144 unique CDR3
7 unique J



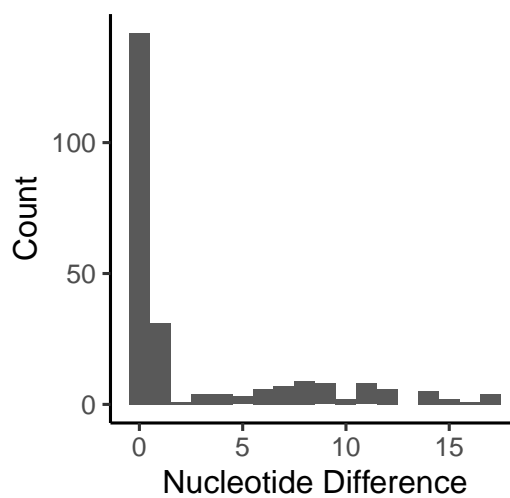
IGHV4-59*12

127 sequences assigned
15 (11.8%) exact matches, in which:
15 unique CDR3
5 unique J



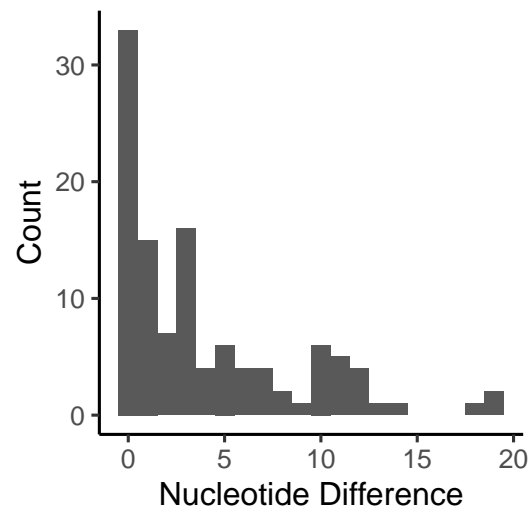
IGHV5-10-1*01_03

253 sequences assigned
142 (56.1%) exact matches, in which:
96 unique CDR3
7 unique J



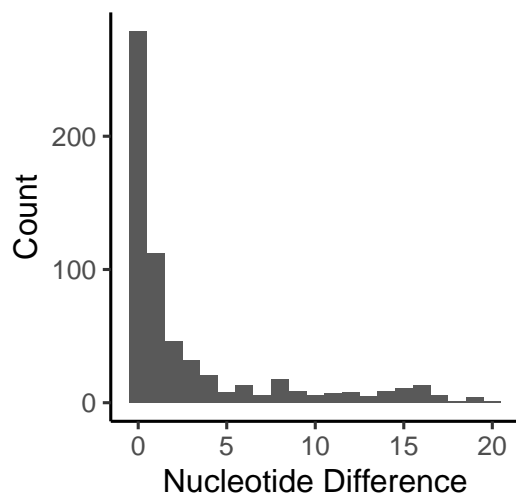
IGHV7-4-1*02

120 sequences assigned
33 (27.5%) exact matches, in which:
32 unique CDR3
4 unique J



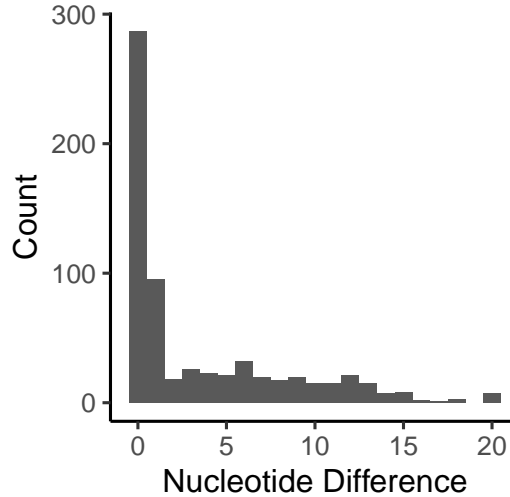
IGHV4-59*02_G88A

694 sequences assigned
279 (40.2%) exact matches, in which:
249 unique CDR3
7 unique J



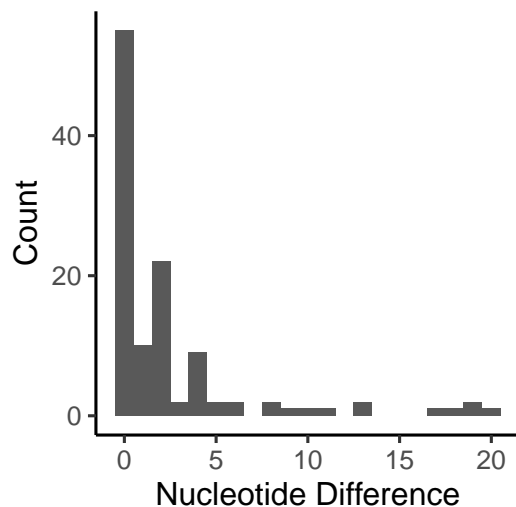
IGHV5-51*07_A128G

674 sequences assigned
287 (42.6%) exact matches, in which:
202 unique CDR3
7 unique J



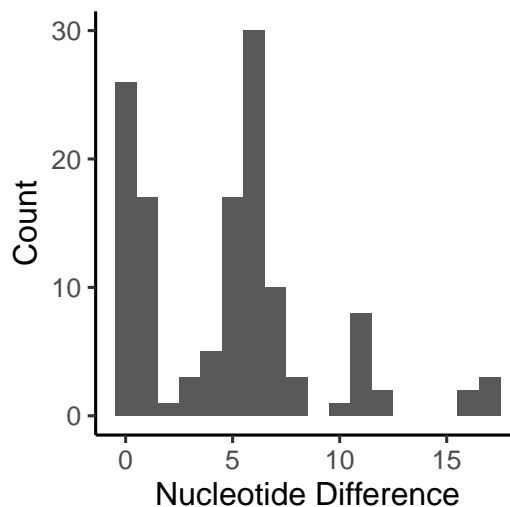
IGHV4-61*01

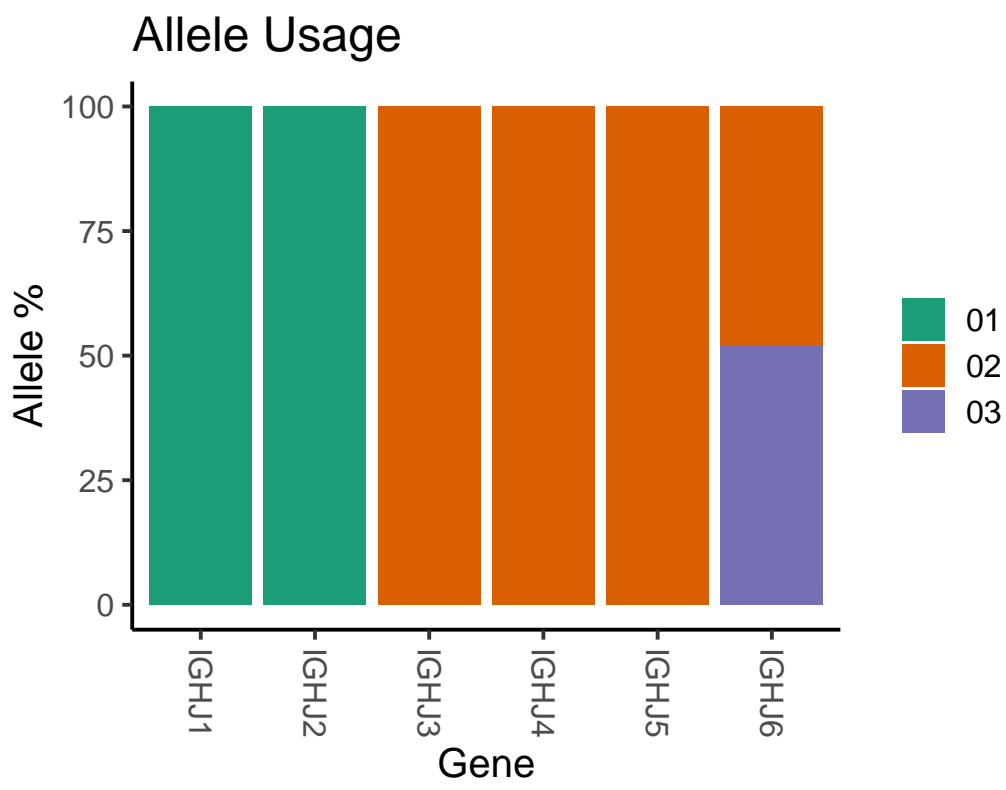
116 sequences assigned
55 (47.4%) exact matches, in which:
50 unique CDR3
6 unique J



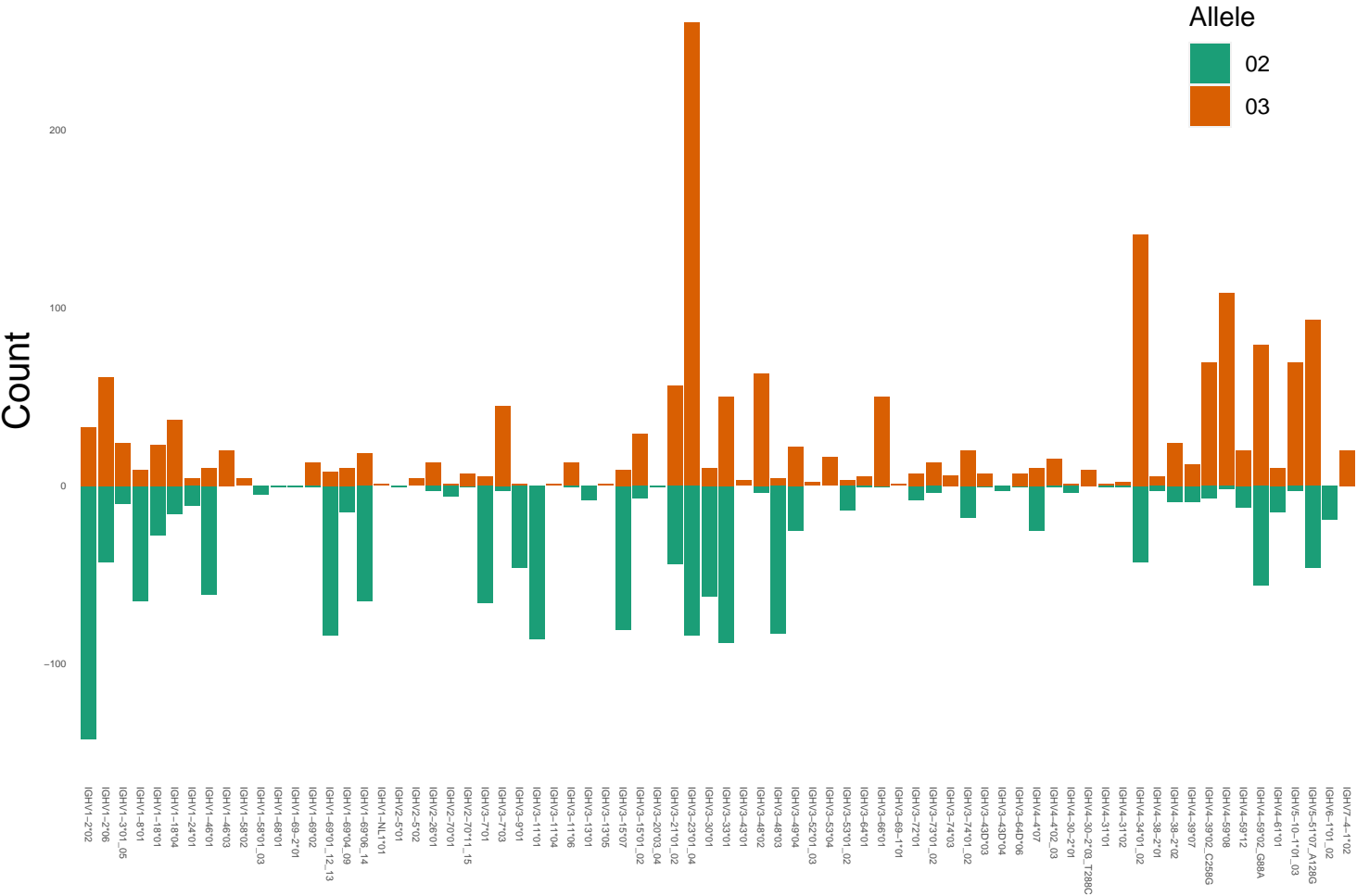
IGHV6-1*01_02

147 sequences assigned
26 (17.7%) exact matches, in which:
26 unique CDR3
5 unique J





Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.