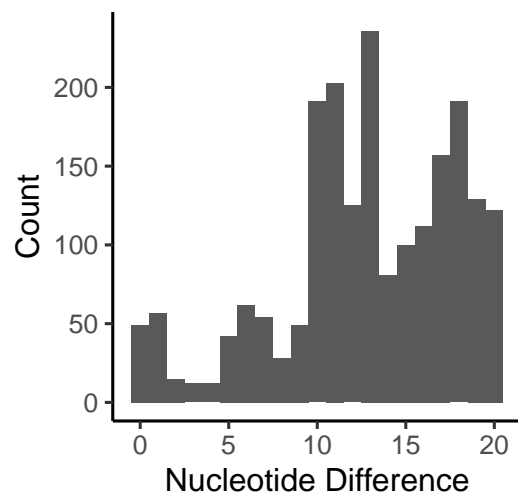


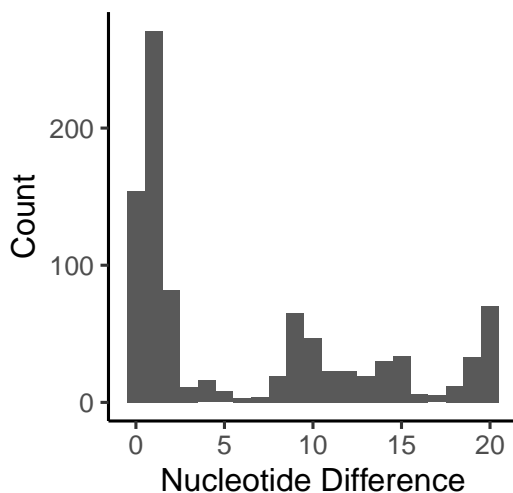
IGHV1–2*02

3042 sequences assigned
49 (1.6%) exact matches, in which:
34 unique CDR3
4 unique J



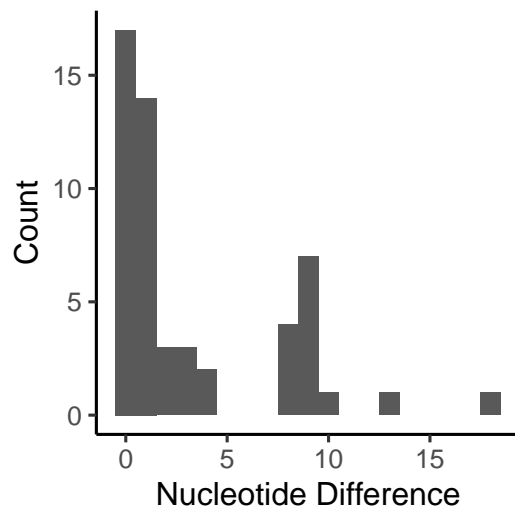
IGHV1–18*01

1021 sequences assigned
154 (15.1%) exact matches, in which:
99 unique CDR3
7 unique J



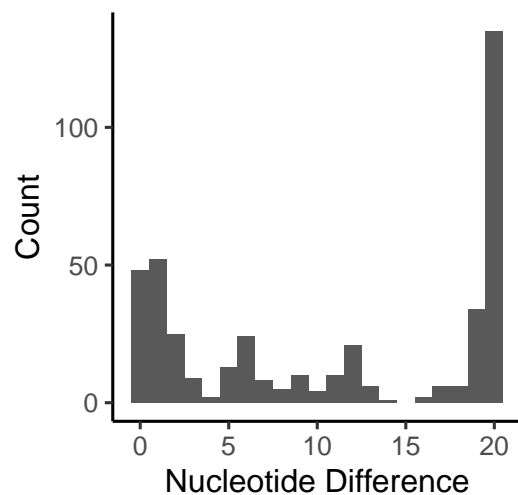
IGHV1–46*03

129 sequences assigned
17 (13.2%) exact matches, in which:
10 unique CDR3
2 unique J



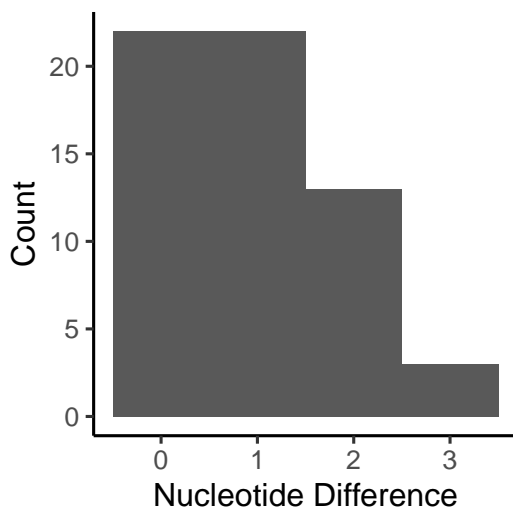
IGHV1–3*01

614 sequences assigned
48 (7.8%) exact matches, in which:
28 unique CDR3
4 unique J



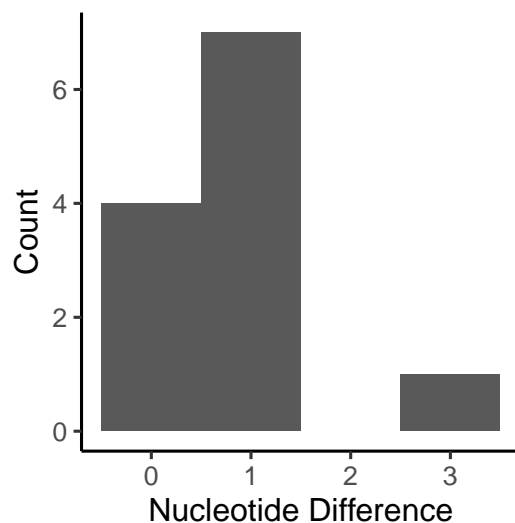
IGHV1–24*01

200 sequences assigned
22 (11%) exact matches, in which:
20 unique CDR3
5 unique J



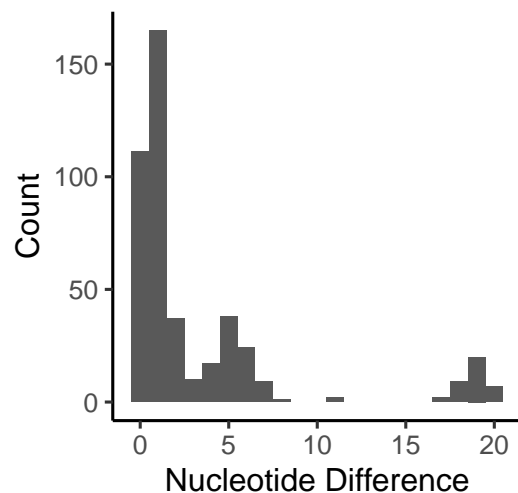
IGHV1–58*01

12 sequences assigned
4 (33.3%) exact matches, in which:
3 unique CDR3
2 unique J



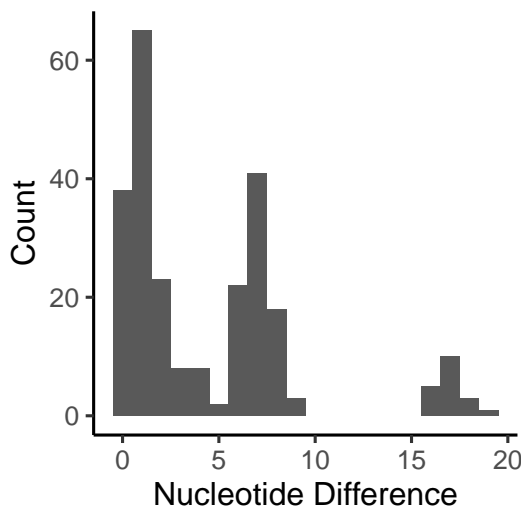
IGHV1–8*01

708 sequences assigned
111 (15.7%) exact matches, in which:
81 unique CDR3
6 unique J



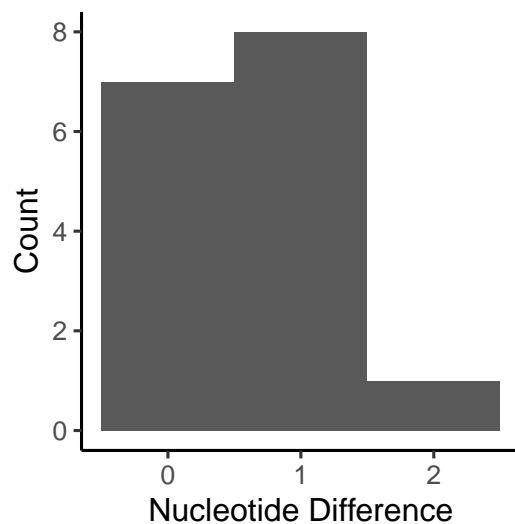
IGHV1–46*01

361 sequences assigned
38 (10.5%) exact matches, in which:
24 unique CDR3
5 unique J



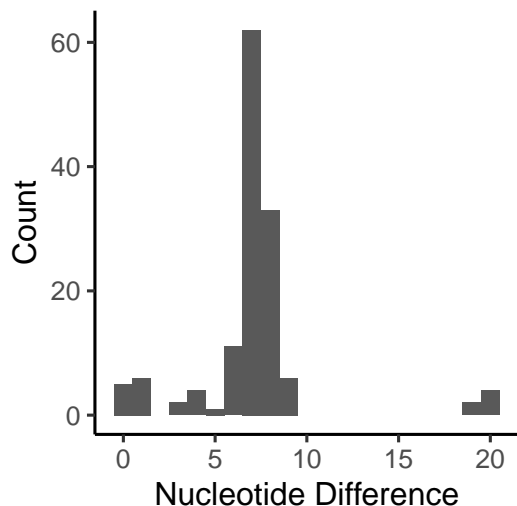
IGHV1–58*02

16 sequences assigned
7 (43.8%) exact matches, in which:
4 unique CDR3
3 unique J



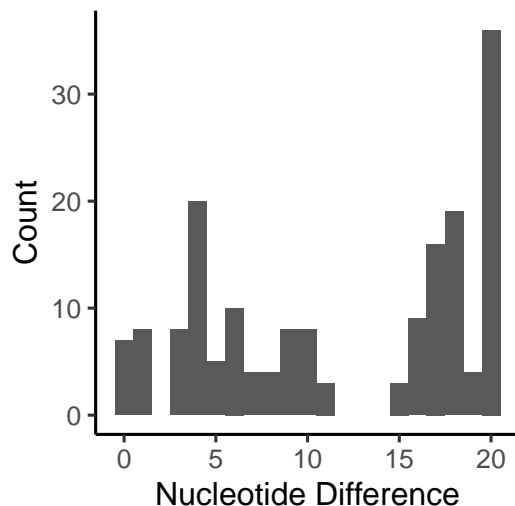
IGHV1-69-2*01

237 sequences assigned
5 (2.1%) exact matches, in which:
5 unique CDR3
1 unique J



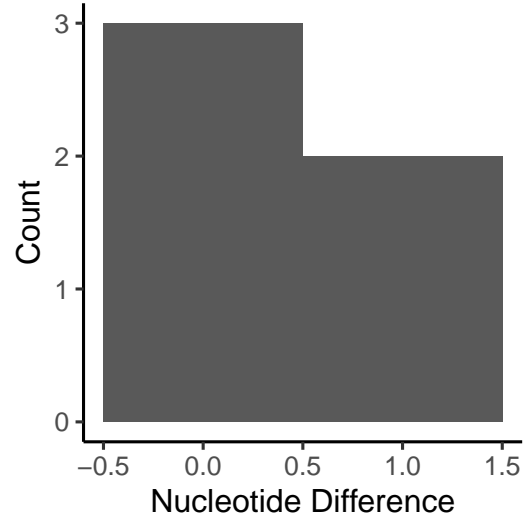
IGHV2-5*01

312 sequences assigned
7 (2.2%) exact matches, in which:
6 unique CDR3
4 unique J



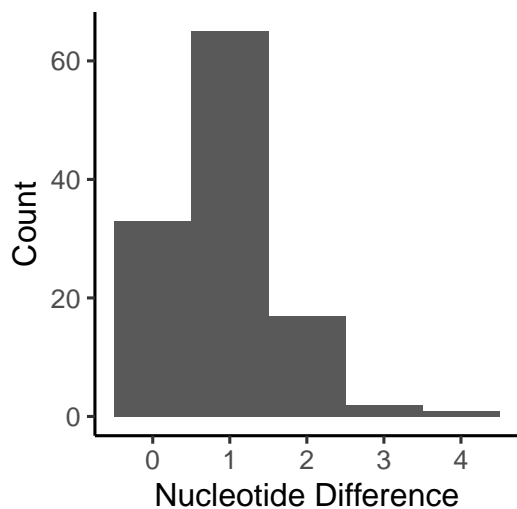
IGHV2-70*01

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



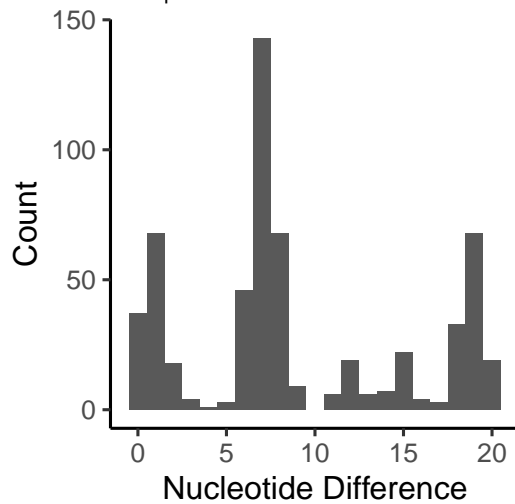
IGHV1-69*02

118 sequences assigned
33 (28%) exact matches, in which:
27 unique CDR3
4 unique J



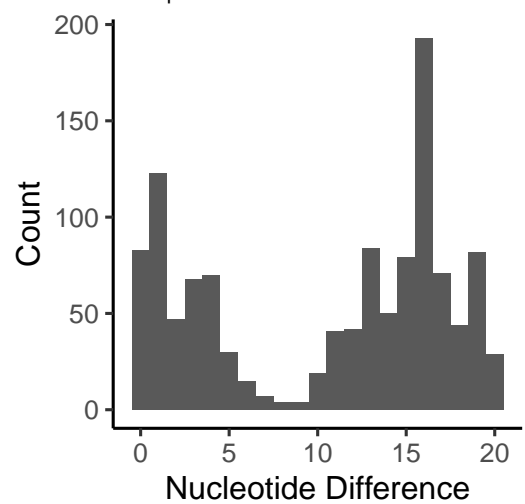
IGHV2-5*02

593 sequences assigned
37 (6.2%) exact matches, in which:
22 unique CDR3
3 unique J



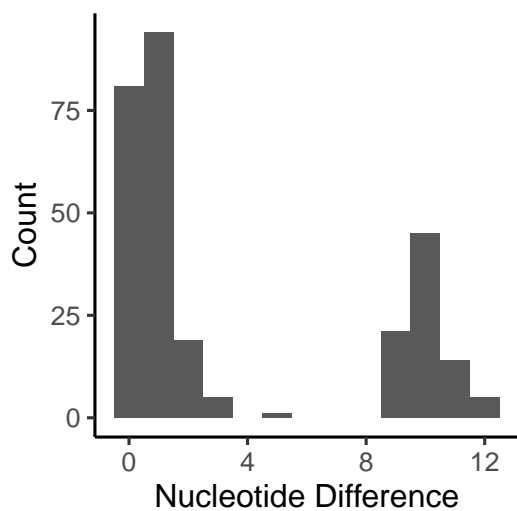
IGHV3-7*01

1303 sequences assigned
83 (6.4%) exact matches, in which:
65 unique CDR3
7 unique J



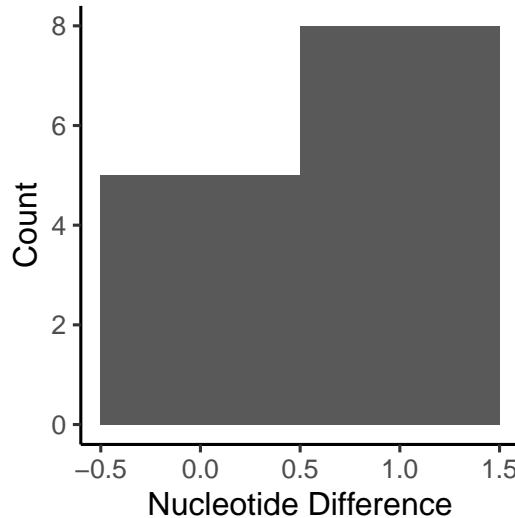
IGHV1-69*04_C184T

297 sequences assigned
81 (27.3%) exact matches, in which:
66 unique CDR3
6 unique J



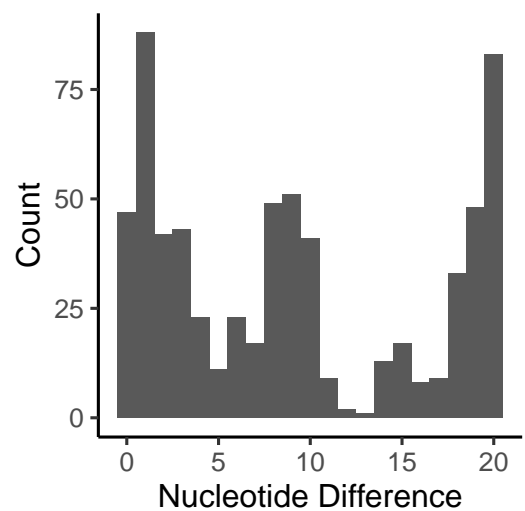
IGHV2-26*01

13 sequences assigned
5 (38.5%) exact matches, in which:
3 unique CDR3
1 unique J



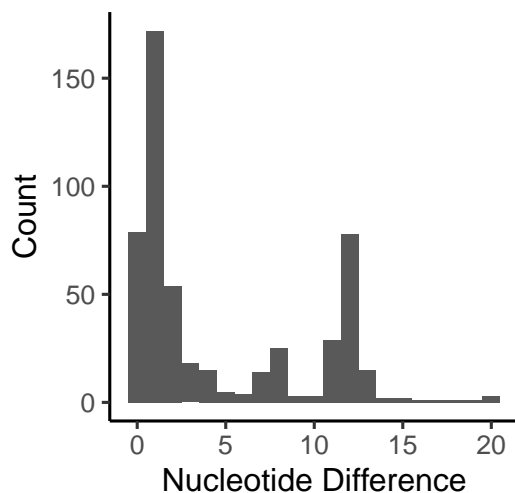
IGHV3-9*01

1067 sequences assigned
47 (4.4%) exact matches, in which:
36 unique CDR3
5 unique J



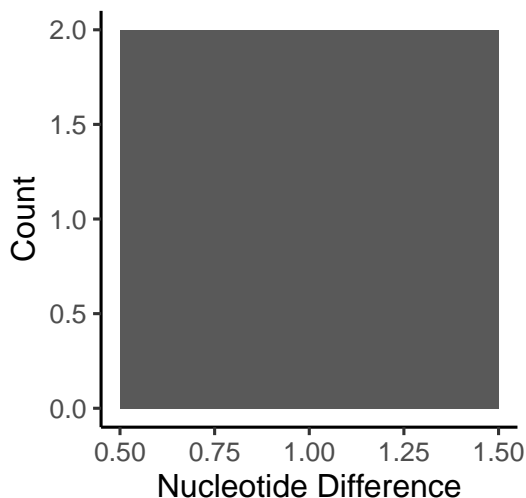
IGHV3-11*01

577 sequences assigned
79 (13.7%) exact matches, in which:
54 unique CDR3
5 unique J



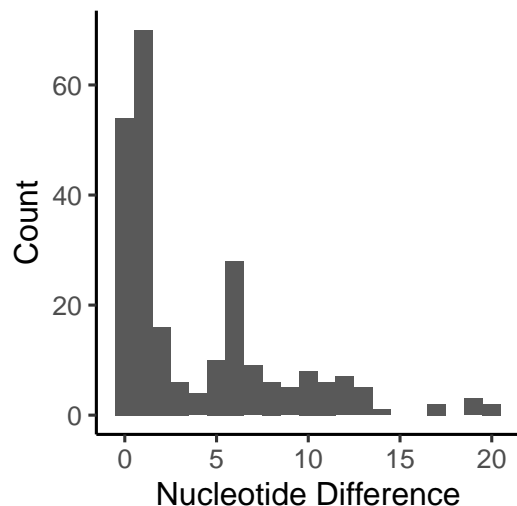
IGHV3-20*01

2 sequences assigned
No exact matches.



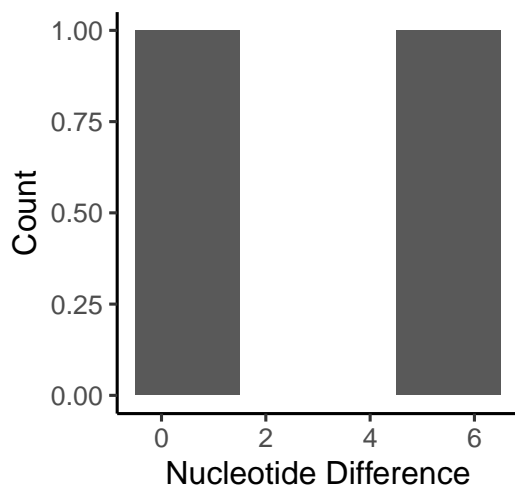
IGHV3-33*01

270 sequences assigned
54 (20%) exact matches, in which:
37 unique CDR3
3 unique J



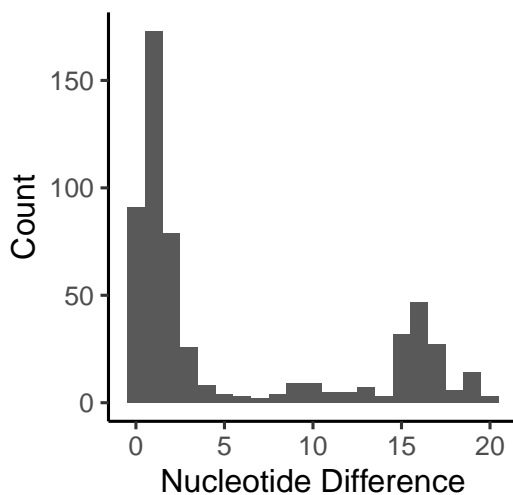
IGHV3-13*01

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



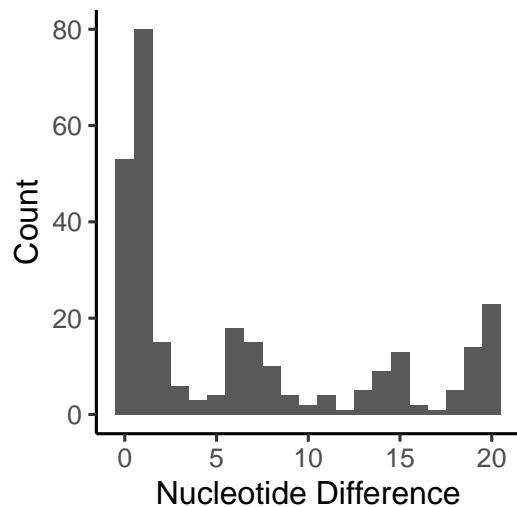
IGHV3-21*01

764 sequences assigned
91 (11.9%) exact matches, in which:
56 unique CDR3
6 unique J



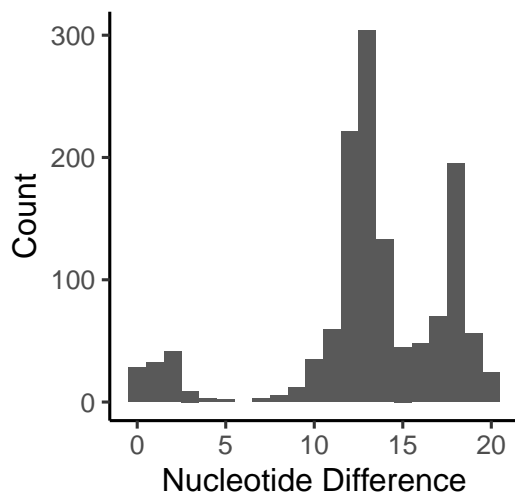
IGHV3-33*08

667 sequences assigned
53 (7.9%) exact matches, in which:
42 unique CDR3
4 unique J



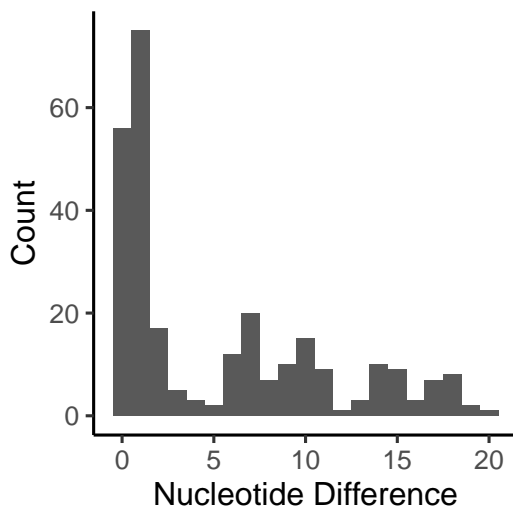
IGHV3-15*01

1358 sequences assigned
28 (2.1%) exact matches, in which:
25 unique CDR3
4 unique J



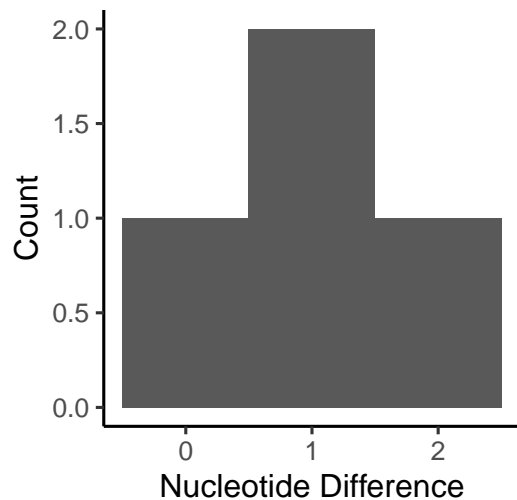
IGHV3-30-3*01

472 sequences assigned
56 (11.9%) exact matches, in which:
36 unique CDR3
6 unique J



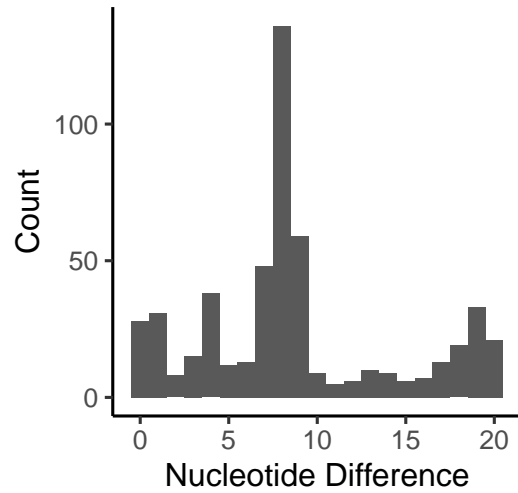
IGHV3-43*01

22 sequences assigned
1 (4.5%) exact matches, in which:
1 unique CDR3
1 unique J



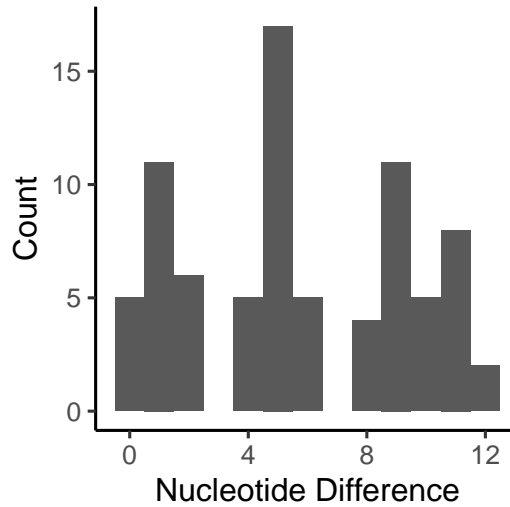
IGHV3-48*01

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



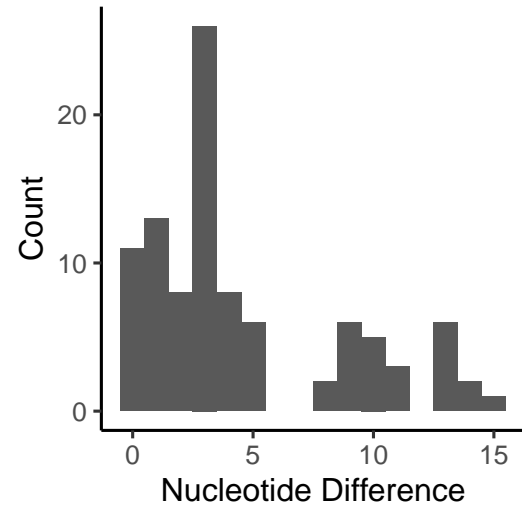
IGHV3-49*05

79 sequences assigned
5 (6.3%) exact matches, in which:
3 unique CDR3
2 unique J



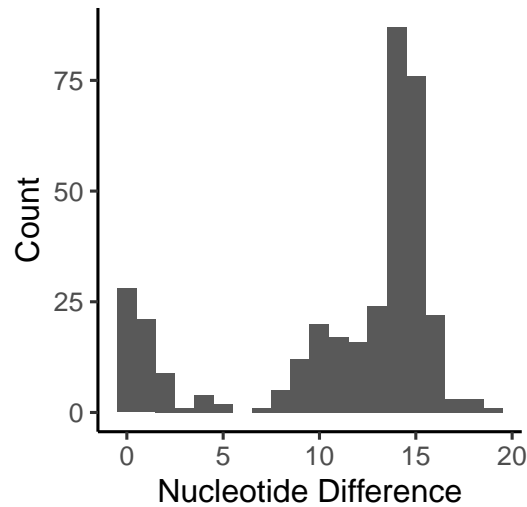
IGHV3-66*02

103 sequences assigned
11 (10.7%) exact matches, in which:
10 unique CDR3
5 unique J



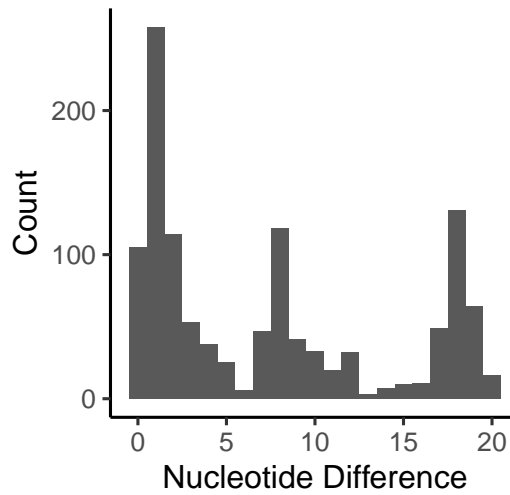
IGHV3-48*02

401 sequences assigned
28 (7%) exact matches, in which:
19 unique CDR3
6 unique J



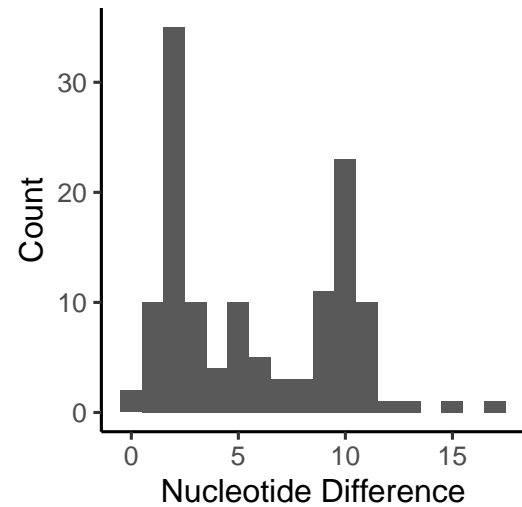
IGHV3-53*01

1544 sequences assigned
105 (6.8%) exact matches, in which:
75 unique CDR3
6 unique J



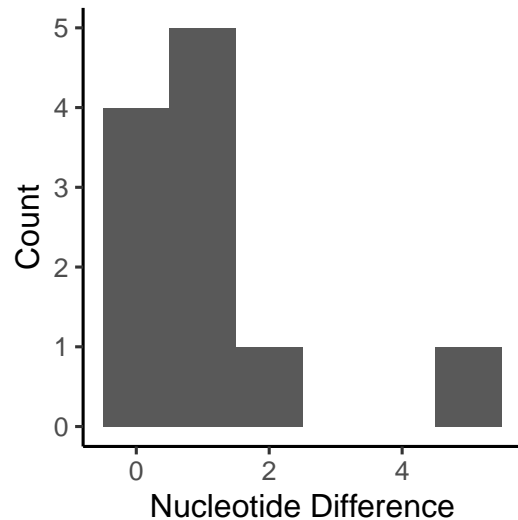
IGHV3-72*01

187 sequences assigned
2 (1.1%) exact matches, in which:
1 unique CDR3
1 unique J



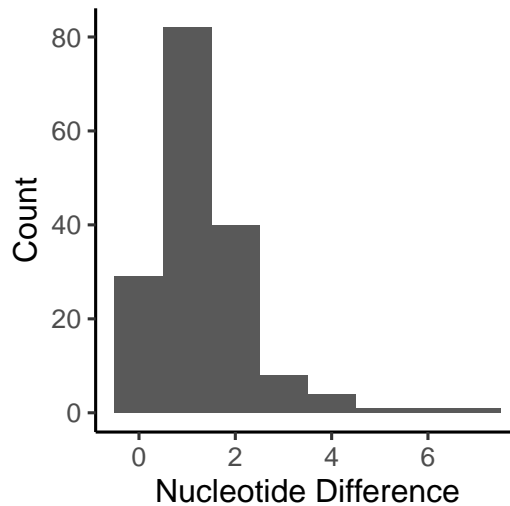
IGHV3-49*03

11 sequences assigned
4 (36.4%) exact matches, in which:
4 unique CDR3
3 unique J



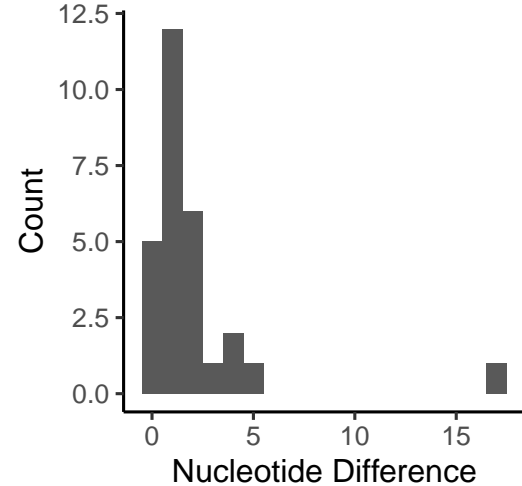
IGHV3-64*01

166 sequences assigned
29 (17.5%) exact matches, in which:
19 unique CDR3
2 unique J



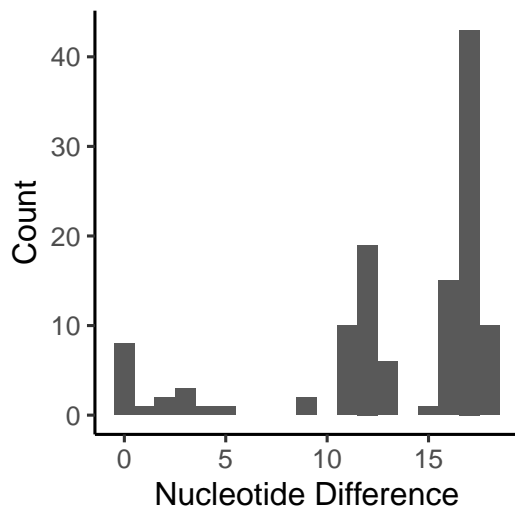
IGHV3-73*01

28 sequences assigned
5 (17.9%) exact matches, in which:
4 unique CDR3
2 unique J



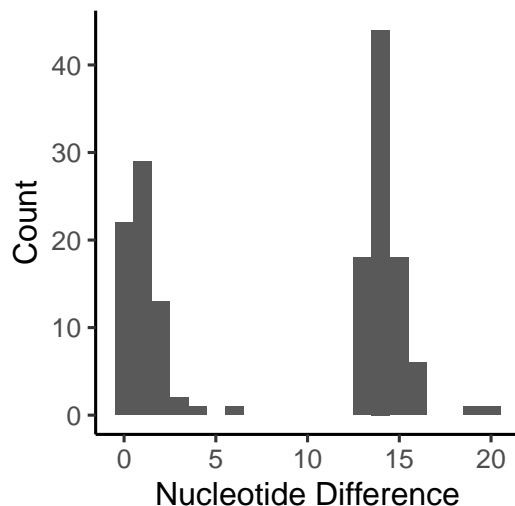
IGHV3-73*02

123 sequences assigned
8 (6.5%) exact matches, in which:
7 unique CDR3
2 unique J



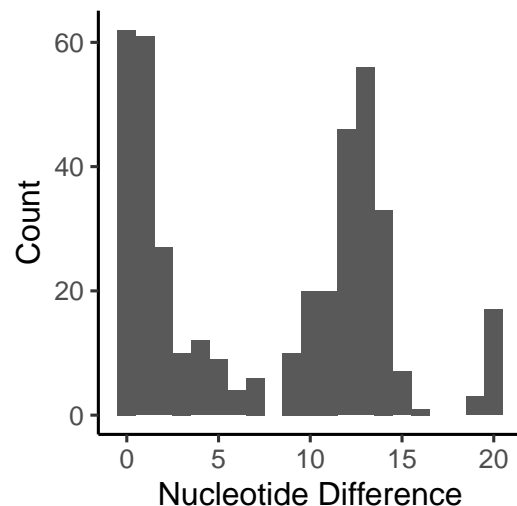
IGHV4-30-4*01

254 sequences assigned
22 (8.7%) exact matches, in which:
16 unique CDR3
3 unique J



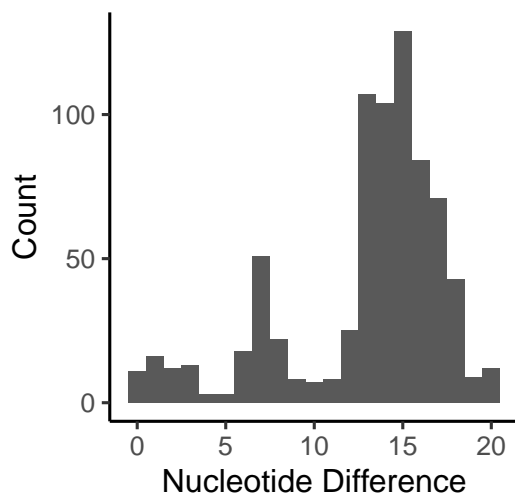
IGHV4-34*01

897 sequences assigned
62 (6.9%) exact matches, in which:
56 unique CDR3
6 unique J



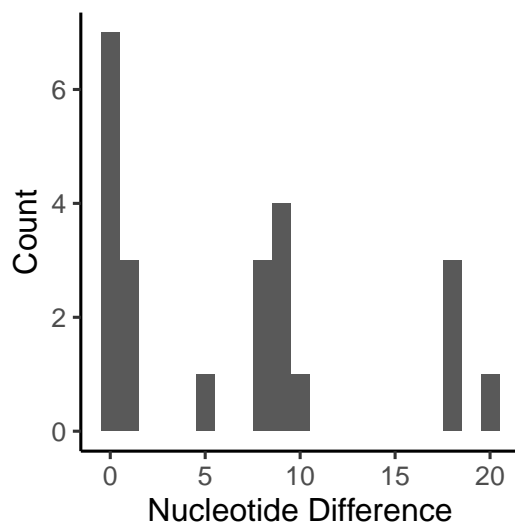
IGHV3-74*01

965 sequences assigned
11 (1.1%) exact matches, in which:
10 unique CDR3
4 unique J



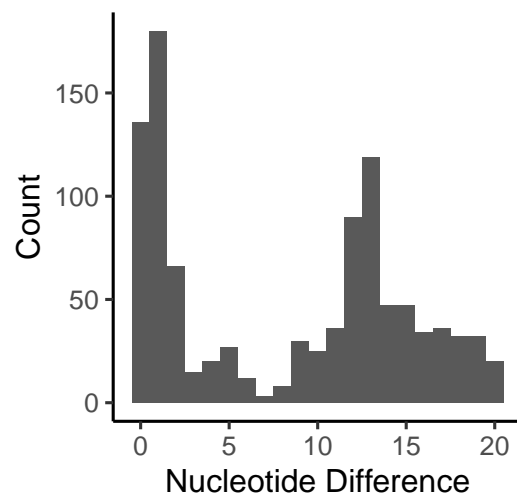
IGHV4-30-2*01

25 sequences assigned
7 (28%) exact matches, in which:
5 unique CDR3
3 unique J



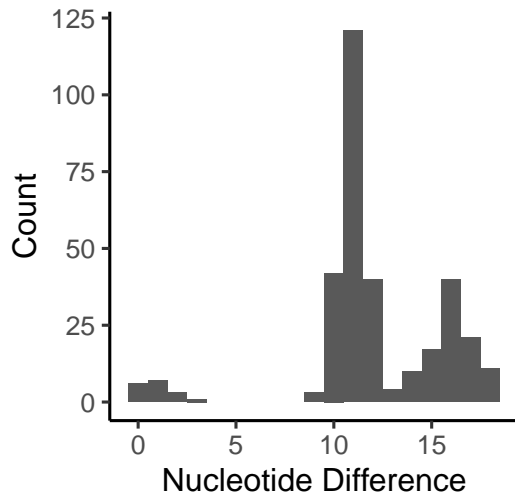
IGHV4-39*01

1295 sequences assigned
136 (10.5%) exact matches, in which:
102 unique CDR3
7 unique J



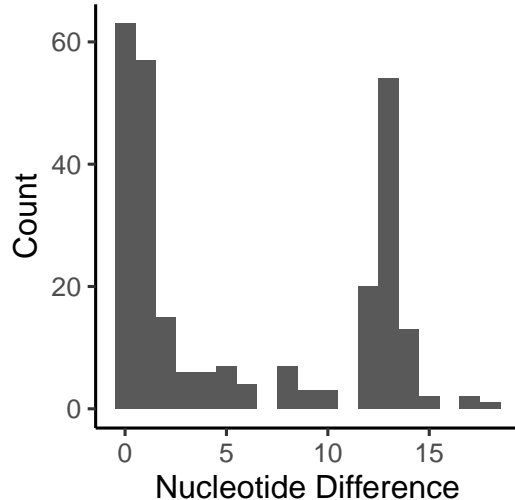
IGHV4-4*07

468 sequences assigned
6 (1.3%) exact matches, in which:
4 unique CDR3
3 unique J



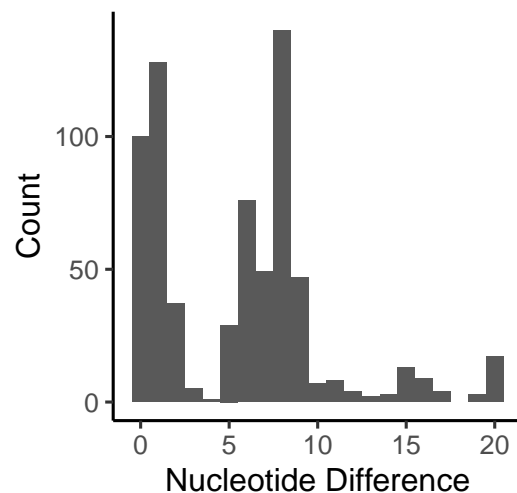
IGHV4-31*03

276 sequences assigned
63 (22.8%) exact matches, in which:
35 unique CDR3
5 unique J



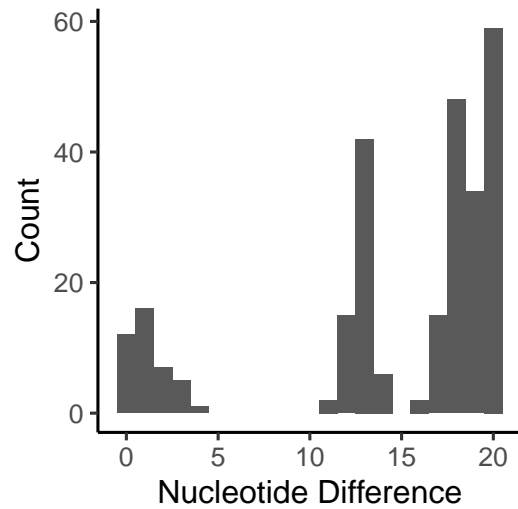
IGHV4-59*01

1274 sequences assigned
100 (7.8%) exact matches, in which:
68 unique CDR3
5 unique J



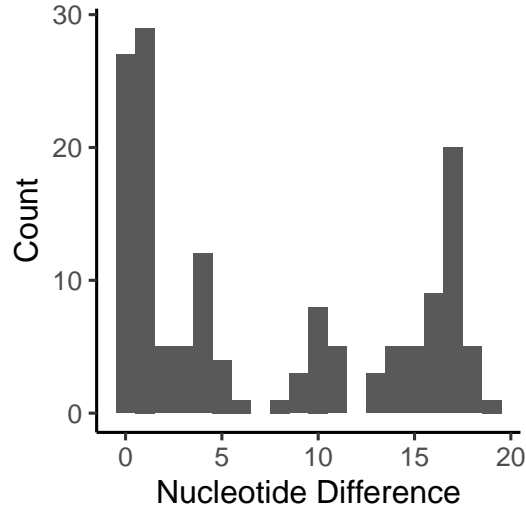
IGHV4-61*01

279 sequences assigned
12 (4.3%) exact matches, in which:
7 unique CDR3
2 unique J



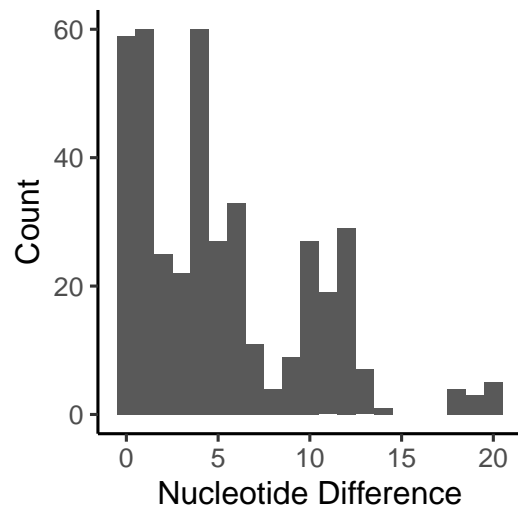
IGHV5-51*03

192 sequences assigned
27 (14.1%) exact matches, in which:
23 unique CDR3
4 unique J



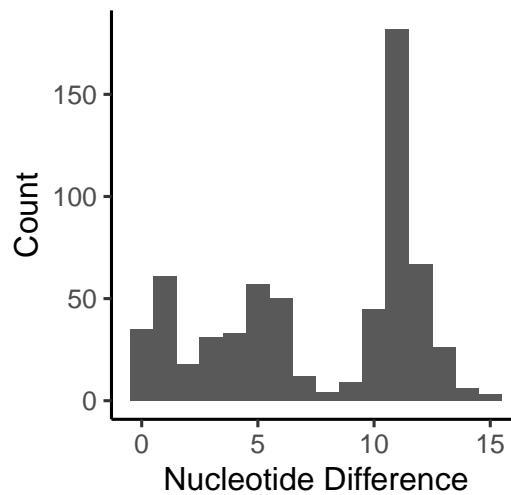
IGHV4-61*02

539 sequences assigned
59 (10.9%) exact matches, in which:
34 unique CDR3
6 unique J



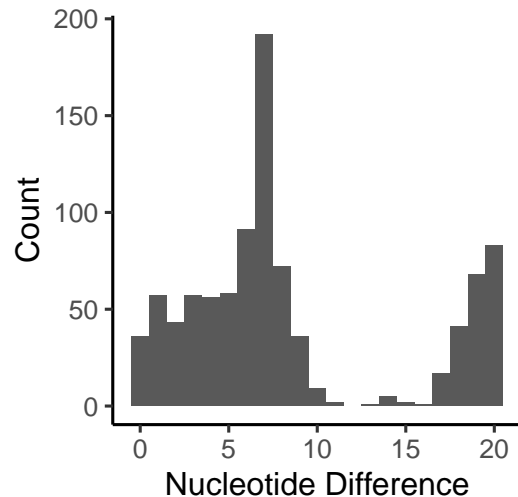
IGHV6-1*01

639 sequences assigned
35 (5.5%) exact matches, in which:
18 unique CDR3
4 unique J



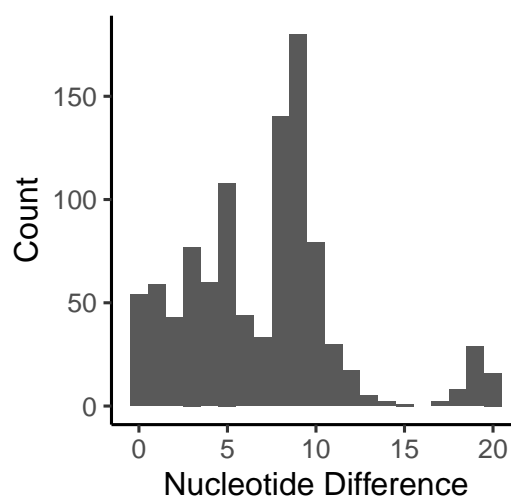
IGHV5-51*01

1171 sequences assigned
36 (3.1%) exact matches, in which:
32 unique CDR3
4 unique J

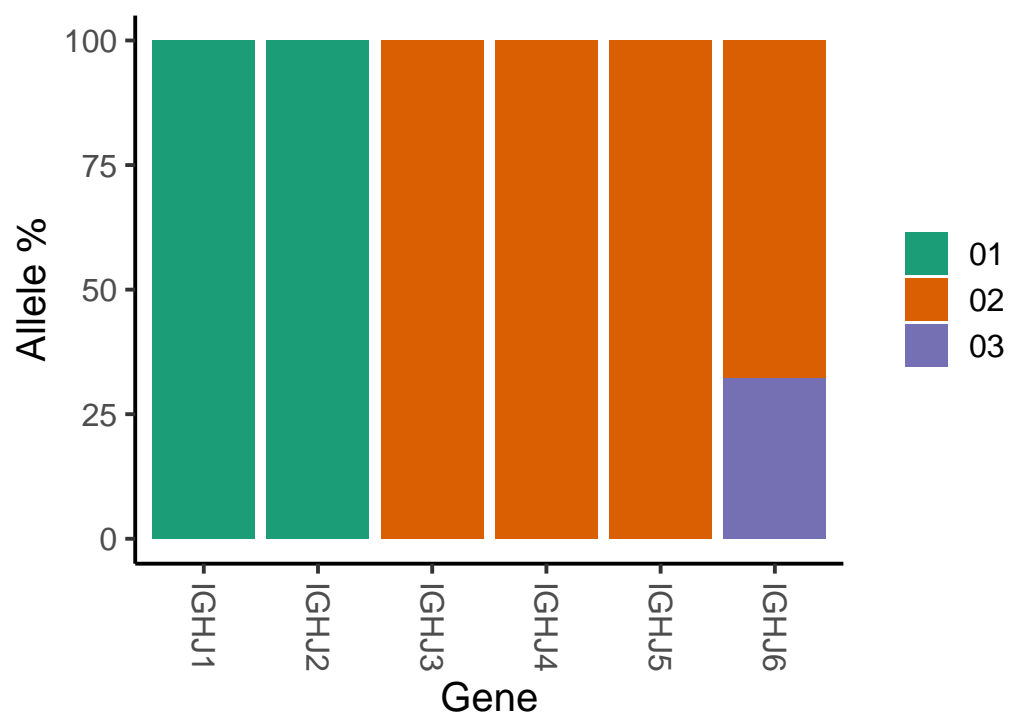


IGHV7-4-1*02

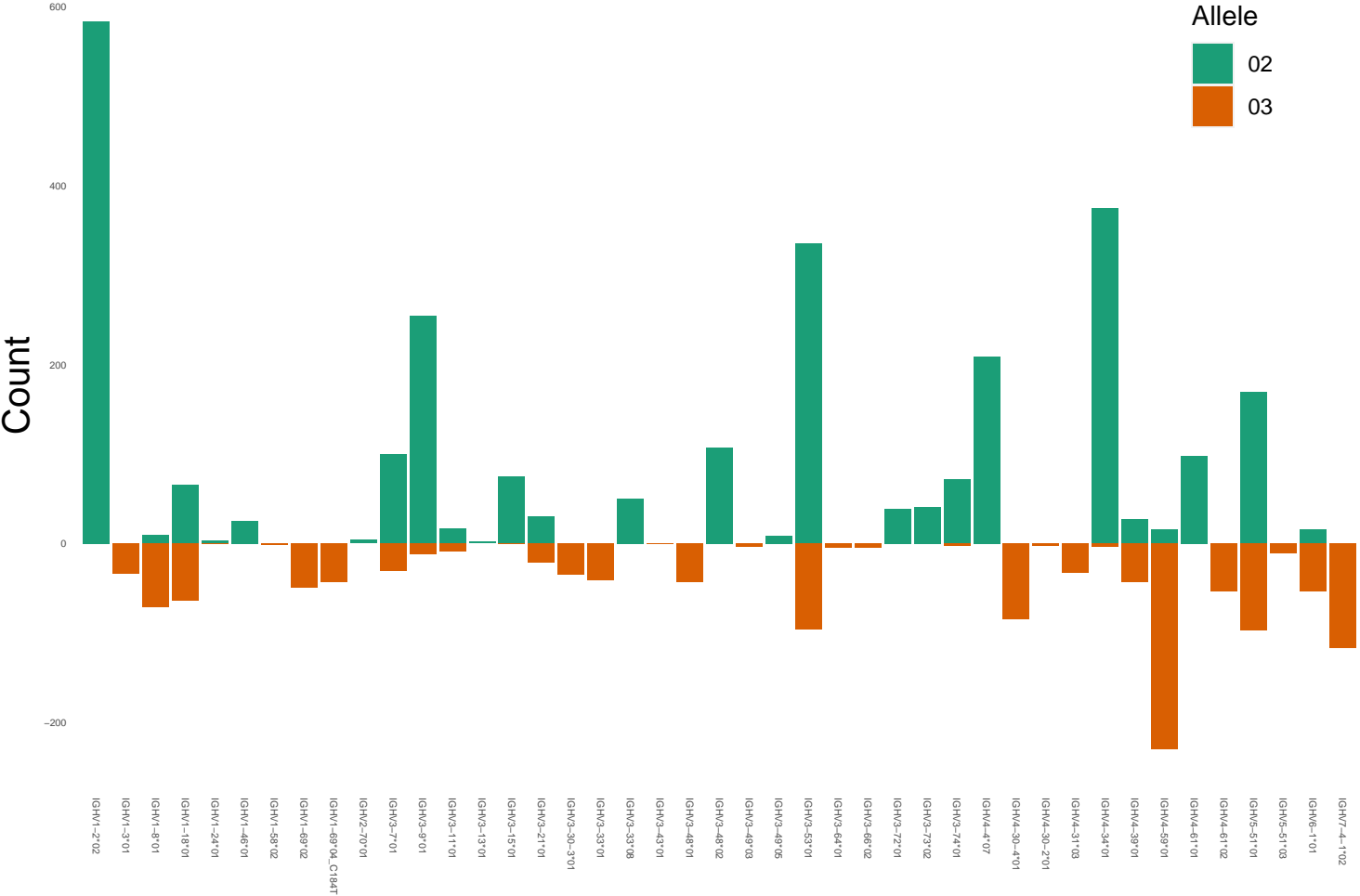
1047 sequences assigned
54 (5.2%) exact matches, in which:
32 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.