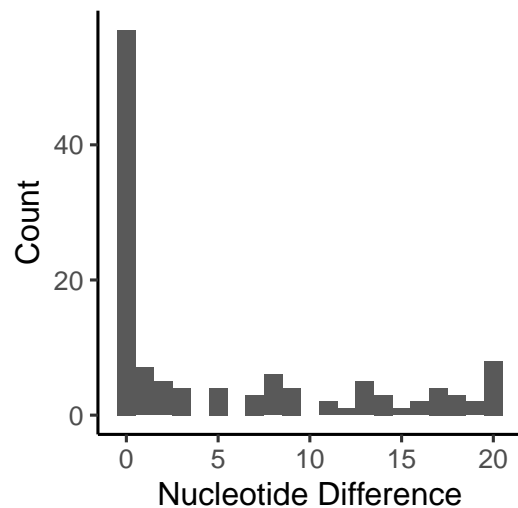


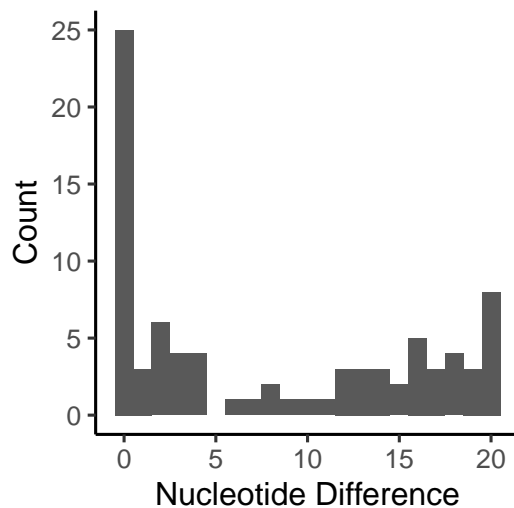
IGHV1-2*04

135 sequences assigned
57 (42.2%) exact matches, in which:
57 unique CDR3
7 unique J



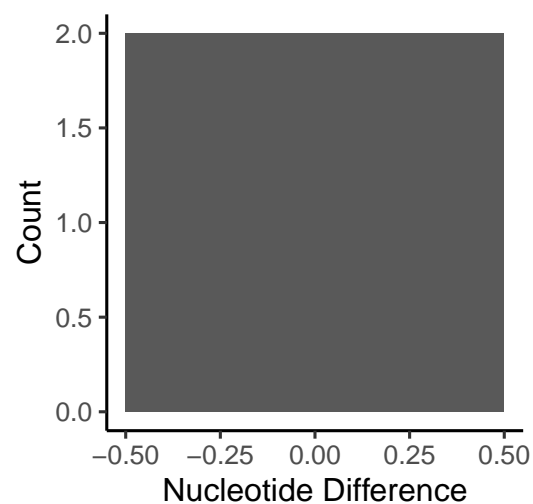
IGHV1-18*04

119 sequences assigned
25 (21%) exact matches, in which:
25 unique CDR3
4 unique J



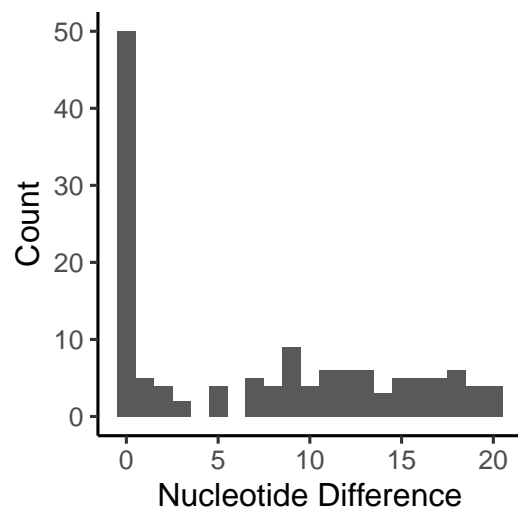
IGHV1-58*01

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



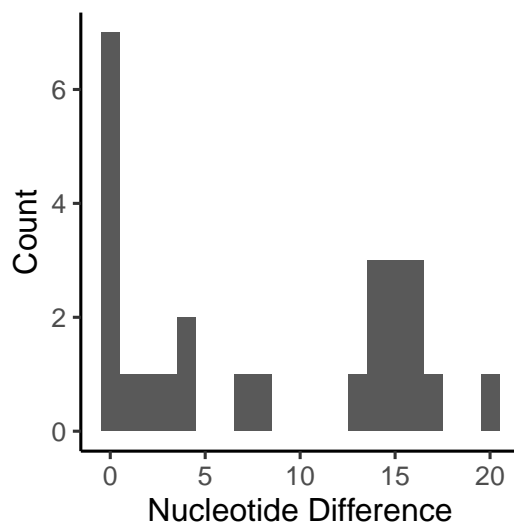
IGHV1-3*01

174 sequences assigned
50 (28.7%) exact matches, in which:
50 unique CDR3
6 unique J



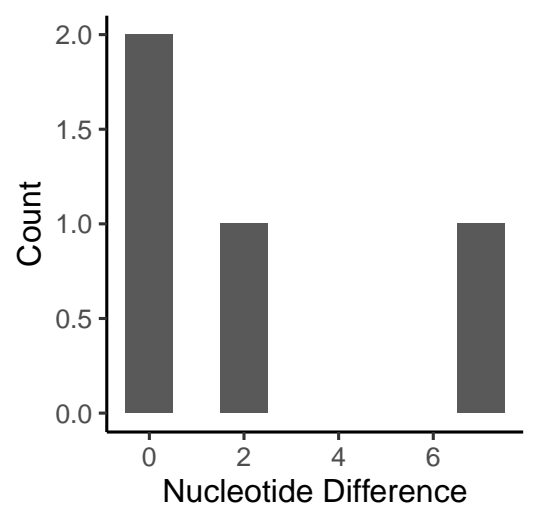
IGHV1-24*01

29 sequences assigned
7 (24.1%) exact matches, in which:
7 unique CDR3
2 unique J



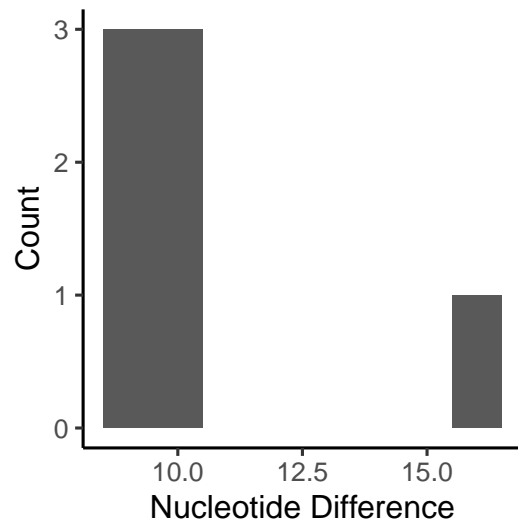
IGHV1-58*02

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



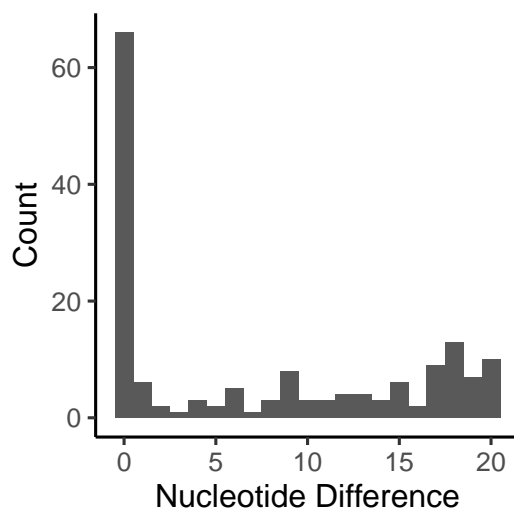
IGHV1-18*01

27 sequences assigned
No exact matches.



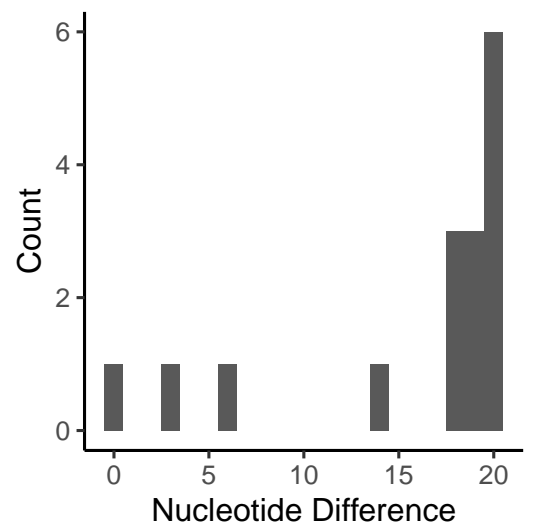
IGHV1-46*01

205 sequences assigned
66 (32.2%) exact matches, in which:
66 unique CDR3
6 unique J



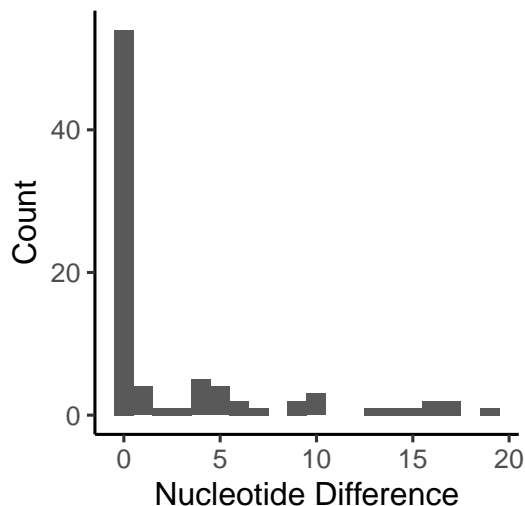
IGHV1-69-2*01

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



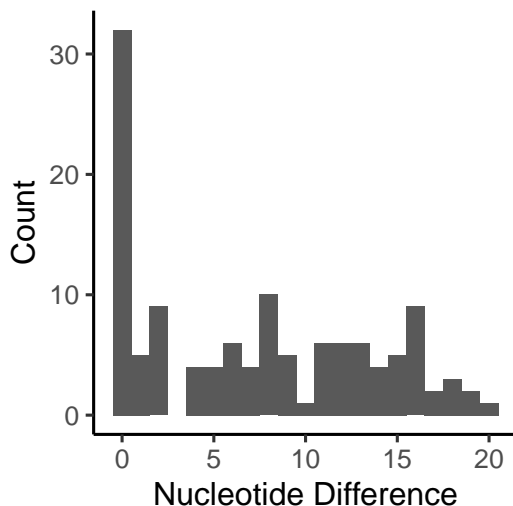
IGHV1-69*02

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



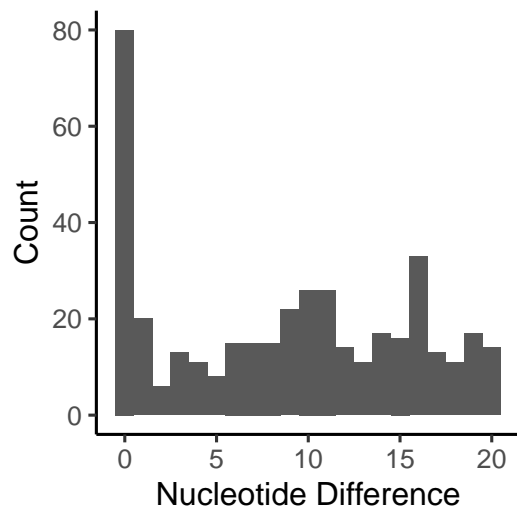
IGHV2-5*02

136 sequences assigned
32 (23.5%) exact matches, in which:
32 unique CDR3
3 unique J



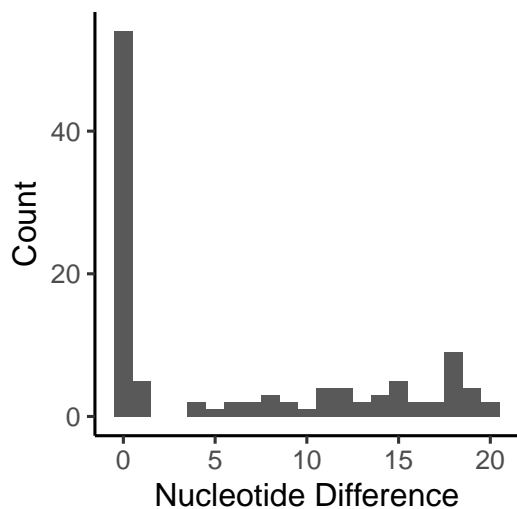
IGHV3-7*03

446 sequences assigned
80 (17.9%) exact matches, in which:
80 unique CDR3
7 unique J



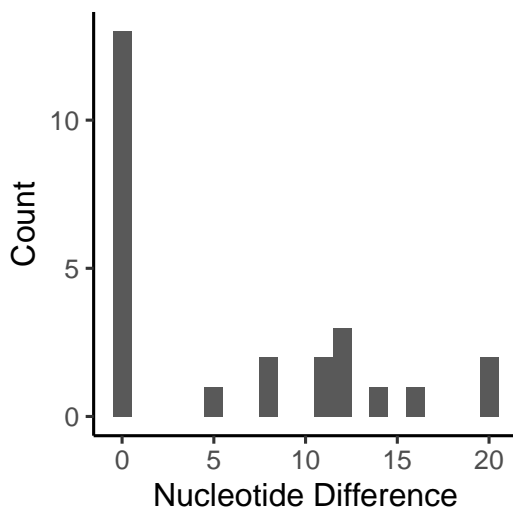
IGHV1-69*06

148 sequences assigned
54 (36.5%) exact matches, in which:
54 unique CDR3
5 unique J



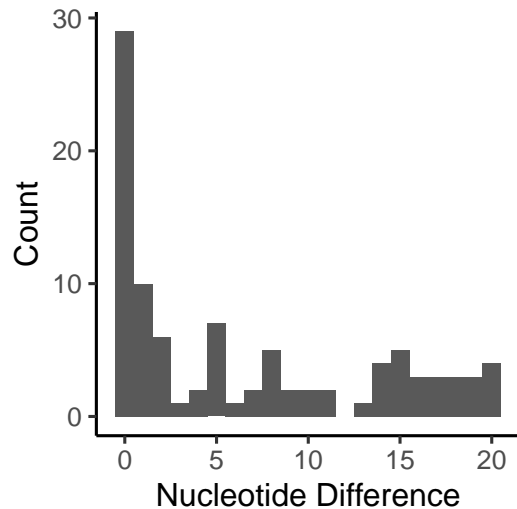
IGHV2-26*01

27 sequences assigned
13 (48.1%) exact matches, in which:
12 unique CDR3
5 unique J



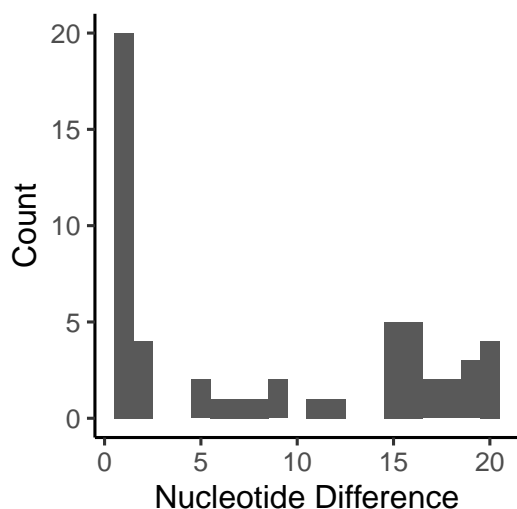
IGHV3-11*06

111 sequences assigned
29 (26.1%) exact matches, in which:
29 unique CDR3
5 unique J



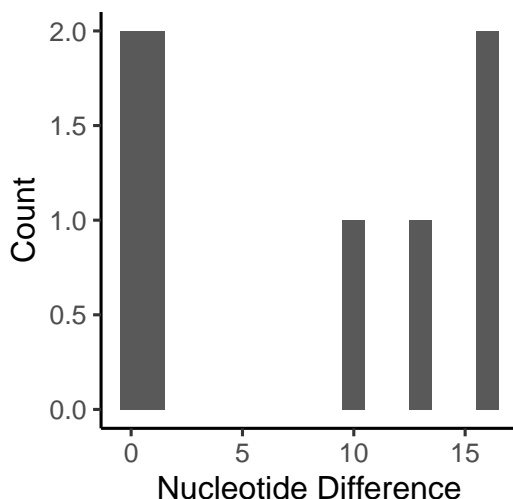
IGHV1-69*08

75 sequences assigned
No exact matches.



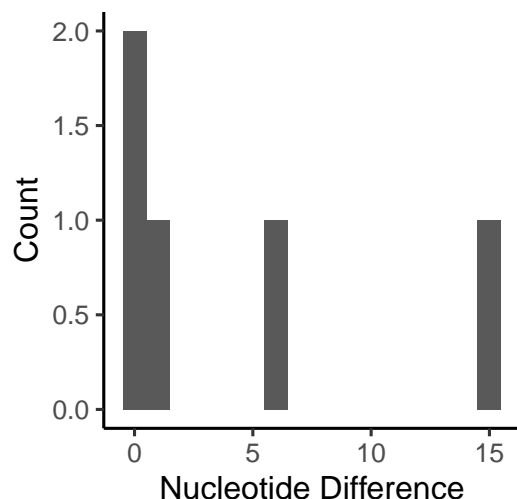
IGHV2-70*01

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



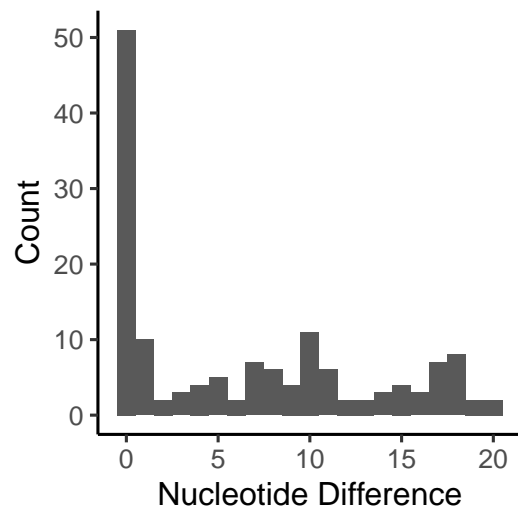
IGHV3-13*05

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



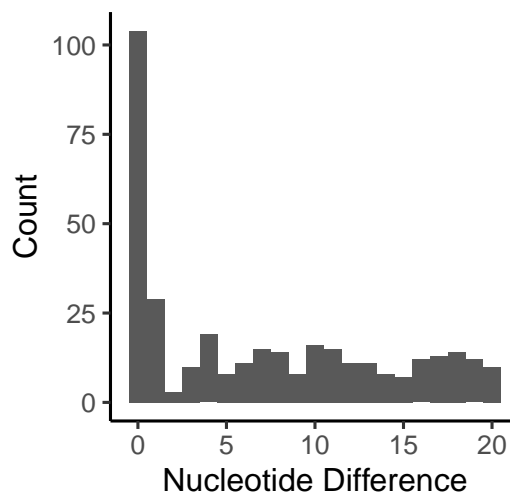
IGHV3-15*01

161 sequences assigned
51 (31.7%) exact matches, in which:
51 unique CDR3
6 unique J



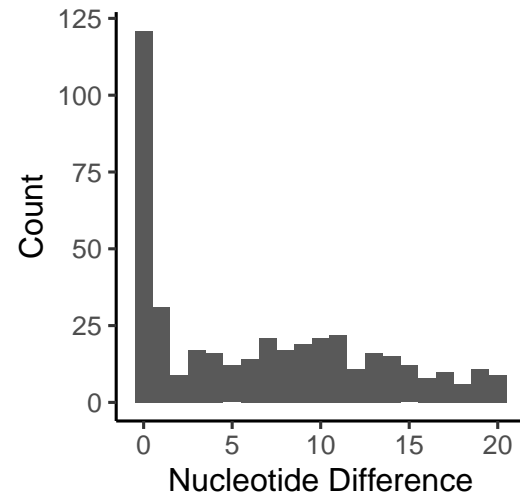
IGHV3-33*01

413 sequences assigned
104 (25.2%) exact matches, in which:
103 unique CDR3
5 unique J



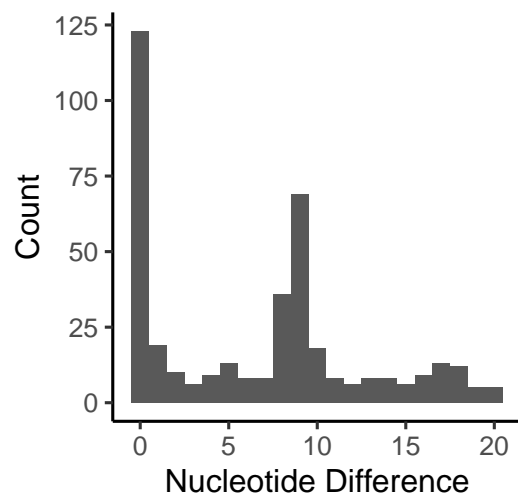
IGHV3-48*03

470 sequences assigned
121 (25.7%) exact matches, in which:
121 unique CDR3
5 unique J



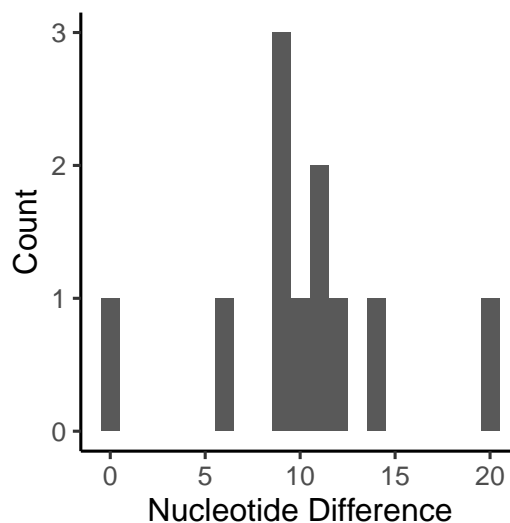
IGHV3-21*01

487 sequences assigned
123 (25.3%) exact matches, in which:
123 unique CDR3
6 unique J



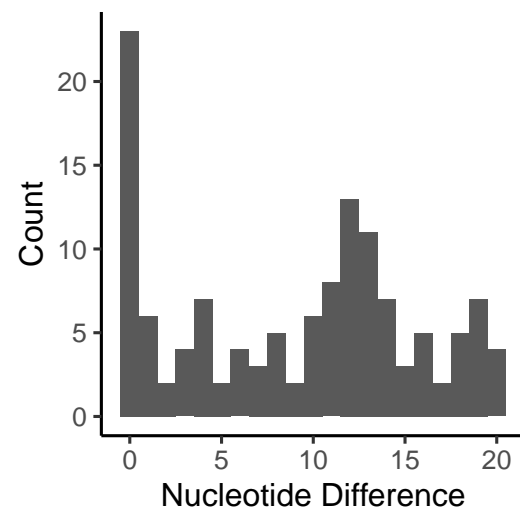
IGHV3-43*01

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



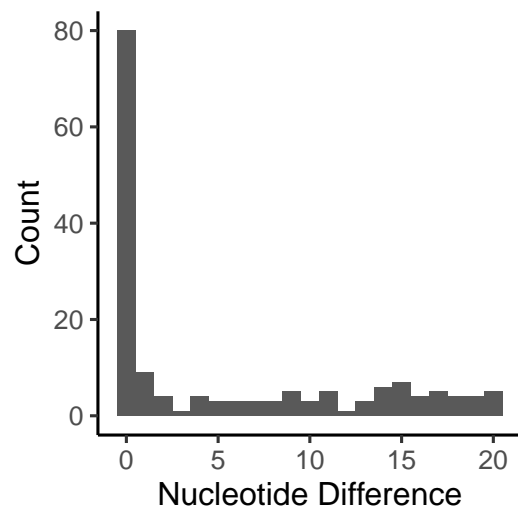
IGHV3-49*04

149 sequences assigned
23 (15.4%) exact matches, in which:
23 unique CDR3
3 unique J



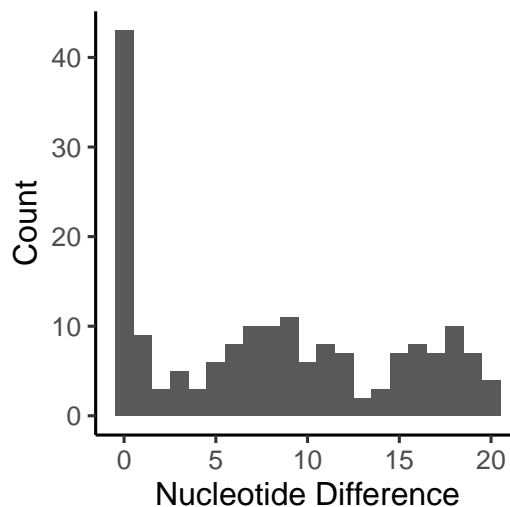
IGHV3-30-3*01

193 sequences assigned
80 (41.5%) exact matches, in which:
79 unique CDR3
5 unique J



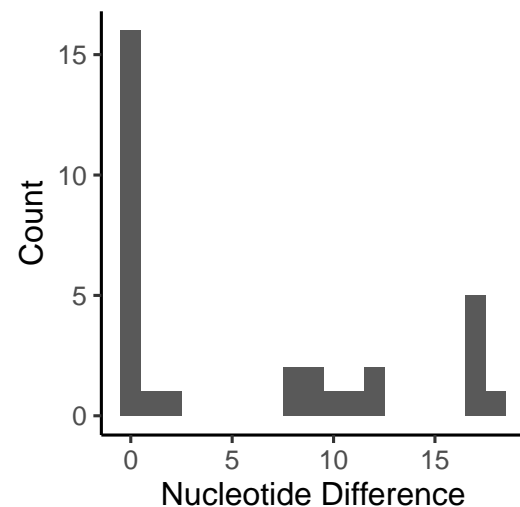
IGHV3-48*02

206 sequences assigned
43 (20.9%) exact matches, in which:
43 unique CDR3
5 unique J



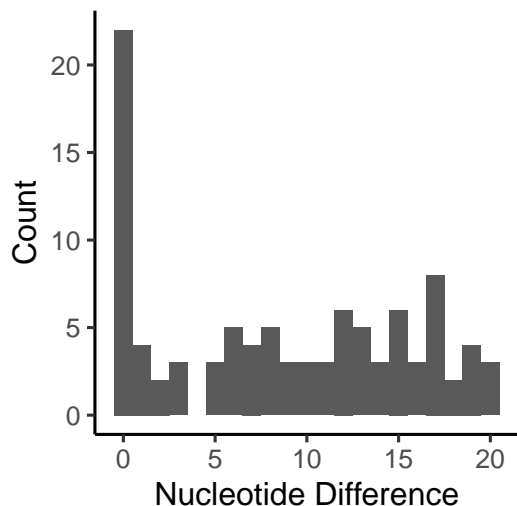
IGHV3-49*05

40 sequences assigned
16 (40%) exact matches, in which:
16 unique CDR3
2 unique J



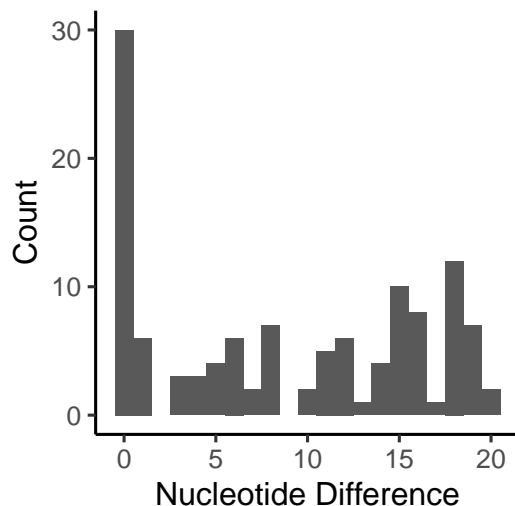
IGHV3-53*01

130 sequences assigned
22 (16.9%) exact matches, in which:
22 unique CDR3
4 unique J



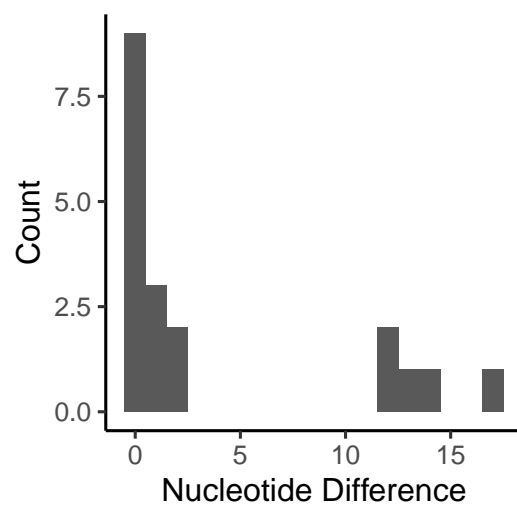
IGHV3-66*02

139 sequences assigned
30 (21.6%) exact matches, in which:
30 unique CDR3
5 unique J



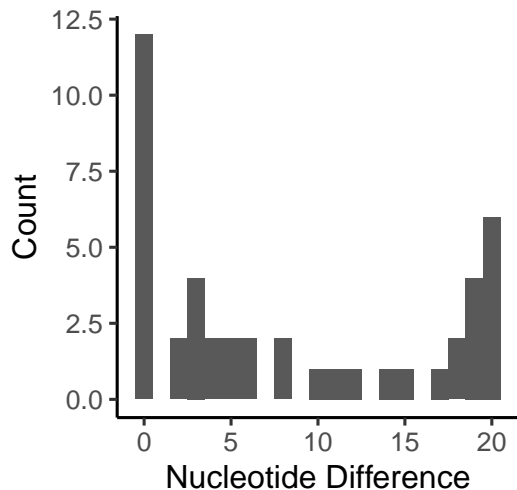
IGHV3-73*02

25 sequences assigned
9 (36%) exact matches, in which:
9 unique CDR3
4 unique J



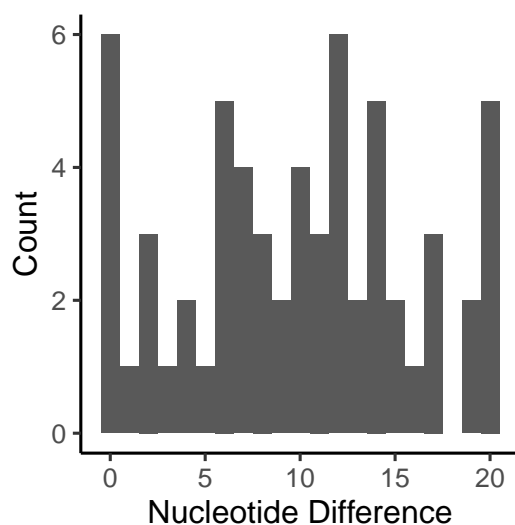
IGHV3-53*02

52 sequences assigned
12 (23.1%) exact matches, in which:
12 unique CDR3
3 unique J



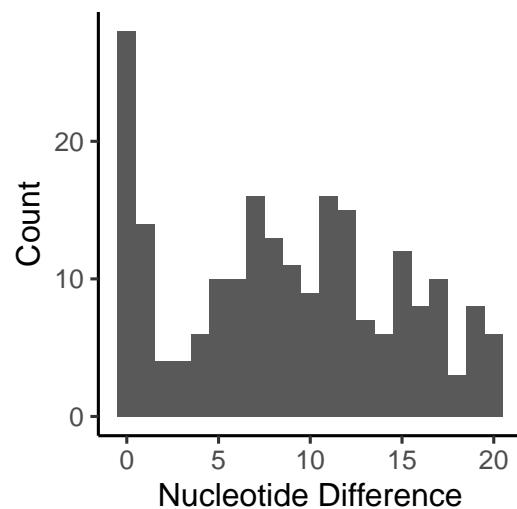
IGHV3-72*01

80 sequences assigned
6 (7.5%) exact matches, in which:
6 unique CDR3
4 unique J



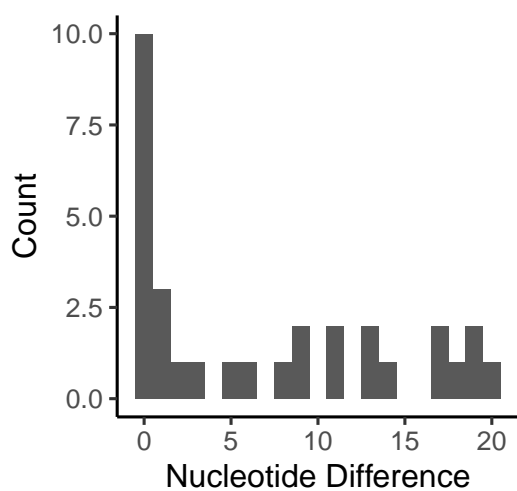
IGHV3-74*01

271 sequences assigned
28 (10.3%) exact matches, in which:
28 unique CDR3
4 unique J



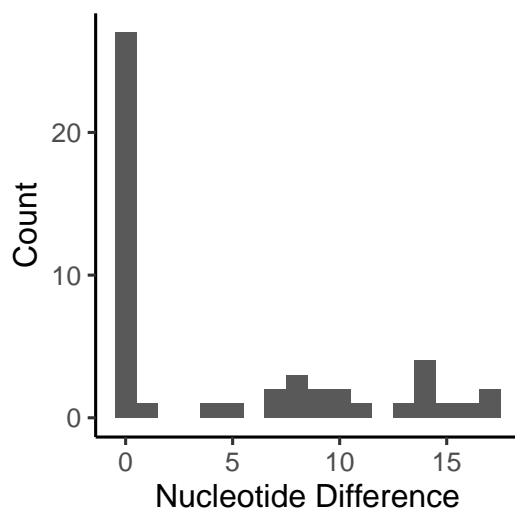
IGHV3-64*01

44 sequences assigned
10 (22.7%) exact matches, in which:
10 unique CDR3
5 unique J



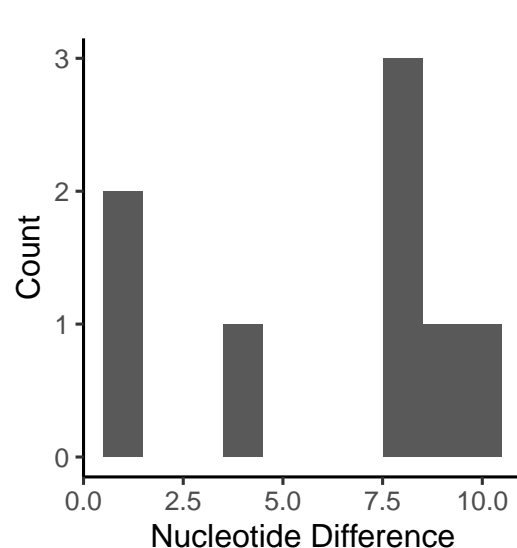
IGHV3-73*01

52 sequences assigned
27 (51.9%) exact matches, in which:
27 unique CDR3
4 unique J



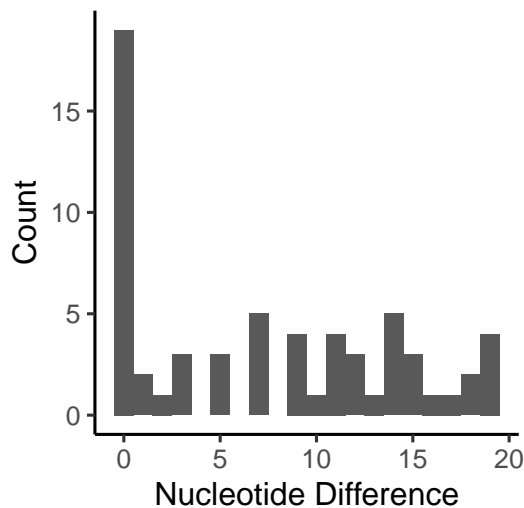
IGHV3-43D*04

14 sequences assigned
No exact matches.



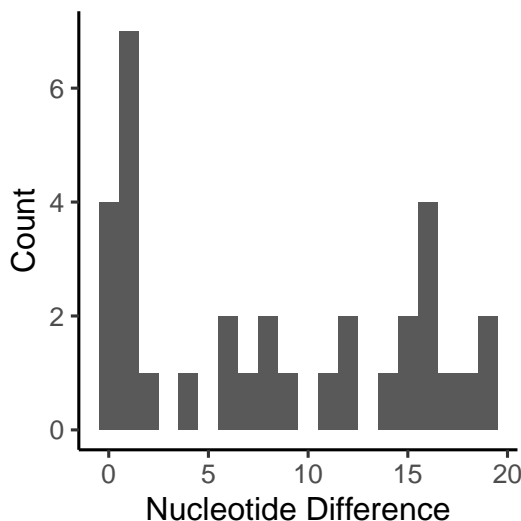
IGHV3-64D*09

83 sequences assigned
19 (22.9%) exact matches, in which:
19 unique CDR3
4 unique J



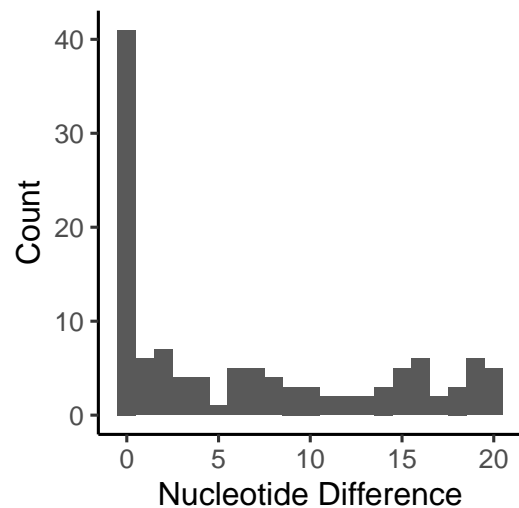
IGHV4-30-2*01

51 sequences assigned
4 (7.8%) exact matches, in which:
4 unique CDR3
2 unique J



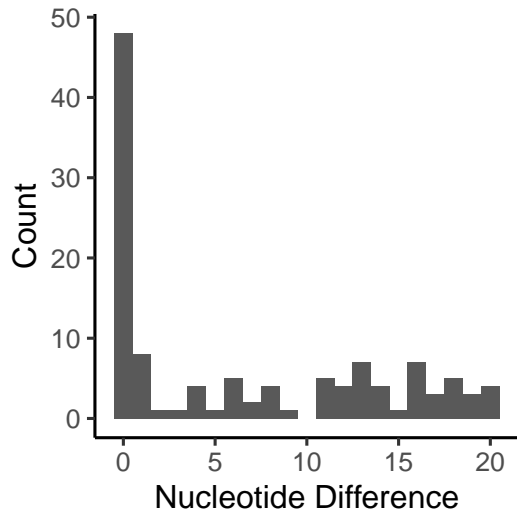
IGHV4-38-2*01

137 sequences assigned
41 (29.9%) exact matches, in which:
41 unique CDR3
6 unique J



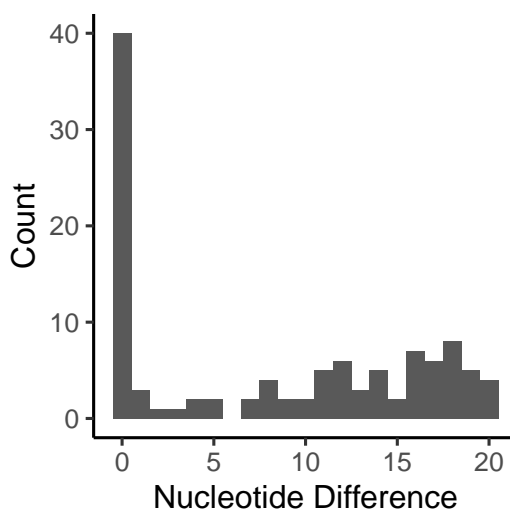
IGHV4-4*02

139 sequences assigned
48 (34.5%) exact matches, in which:
48 unique CDR3
5 unique J



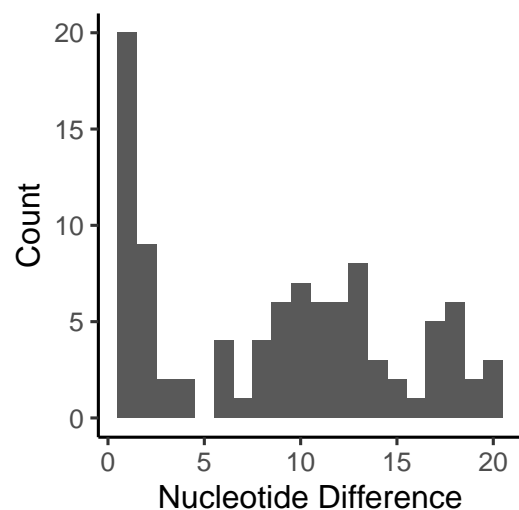
IGHV4-31*03

140 sequences assigned
40 (28.6%) exact matches, in which:
40 unique CDR3
6 unique J



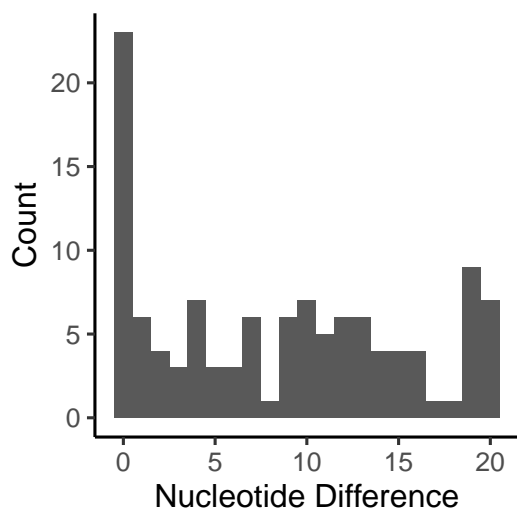
IGHV4-38-2*02

123 sequences assigned
No exact matches.



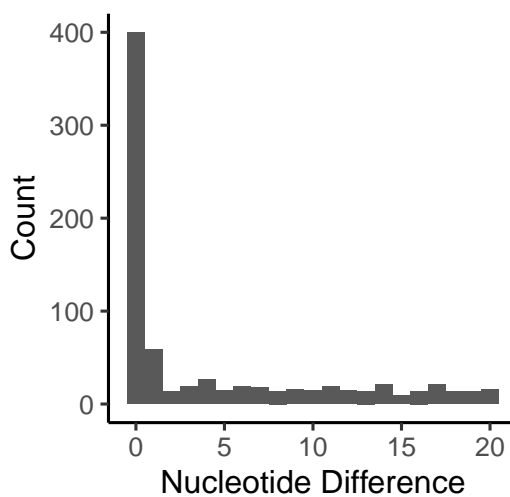
IGHV4-30-4*01

147 sequences assigned
23 (15.6%) exact matches, in which:
22 unique CDR3
6 unique J



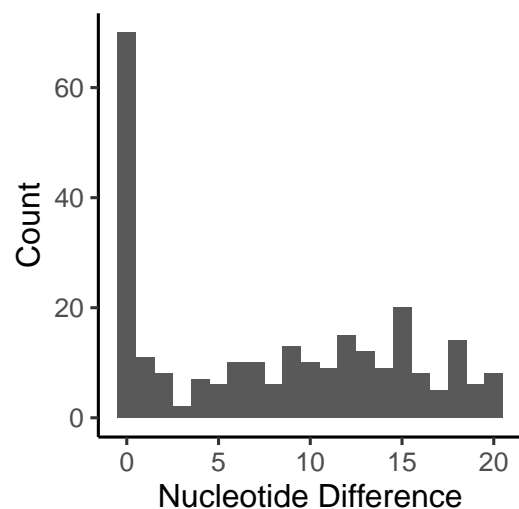
IGHV4-34*01

855 sequences assigned
400 (46.8%) exact matches, in which:
398 unique CDR3
7 unique J



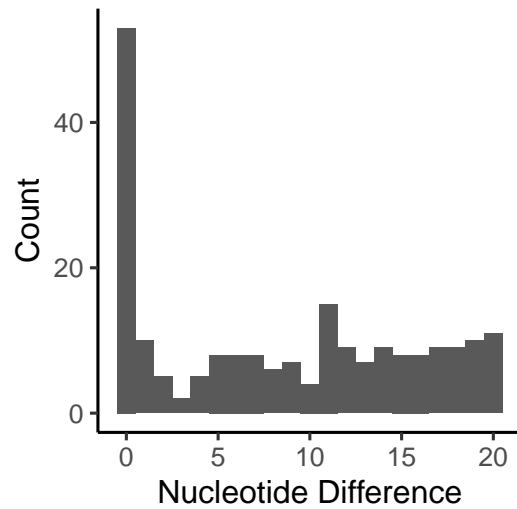
IGHV4-39*07

416 sequences assigned
70 (16.8%) exact matches, in which:
70 unique CDR3
5 unique J



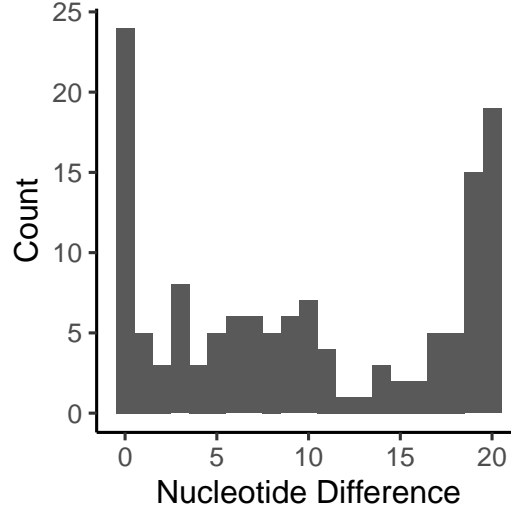
IGHV4-59*01

296 sequences assigned
53 (17.9%) exact matches, in which:
52 unique CDR3
7 unique J



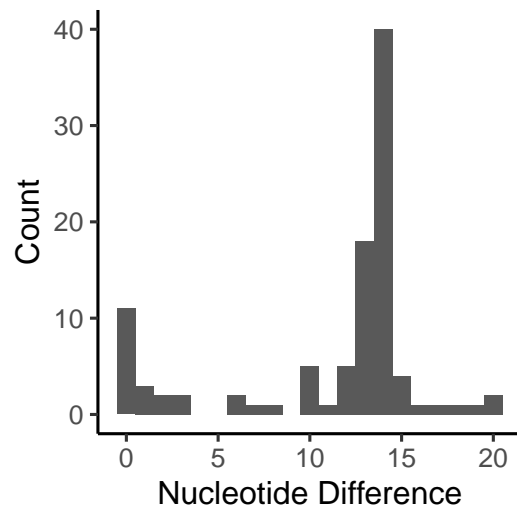
IGHV5-10-1*03

149 sequences assigned
24 (16.1%) exact matches, in which:
24 unique CDR3
6 unique J



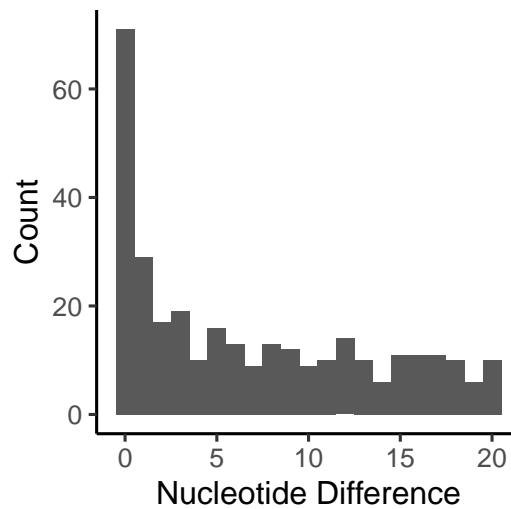
IGHV4-61*01

118 sequences assigned
11 (9.3%) exact matches, in which:
11 unique CDR3
5 unique J



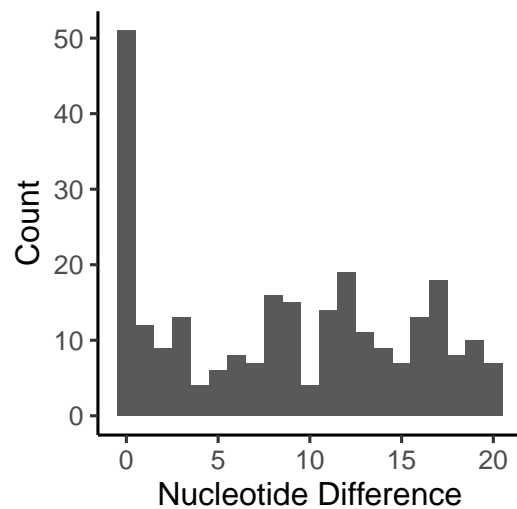
IGHV5-51*01

387 sequences assigned
71 (18.3%) exact matches, in which:
70 unique CDR3
6 unique J



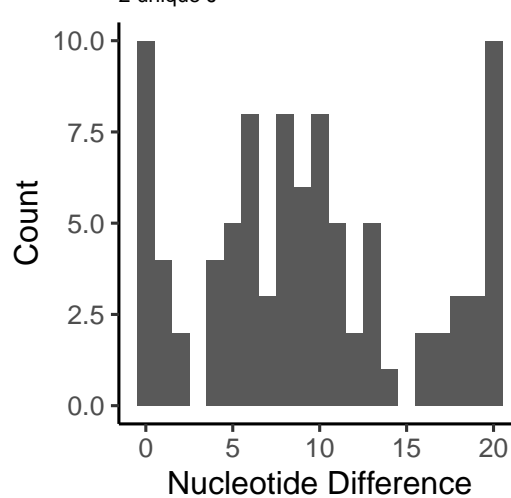
IGHV4-61*02

313 sequences assigned
51 (16.3%) exact matches, in which:
51 unique CDR3
6 unique J

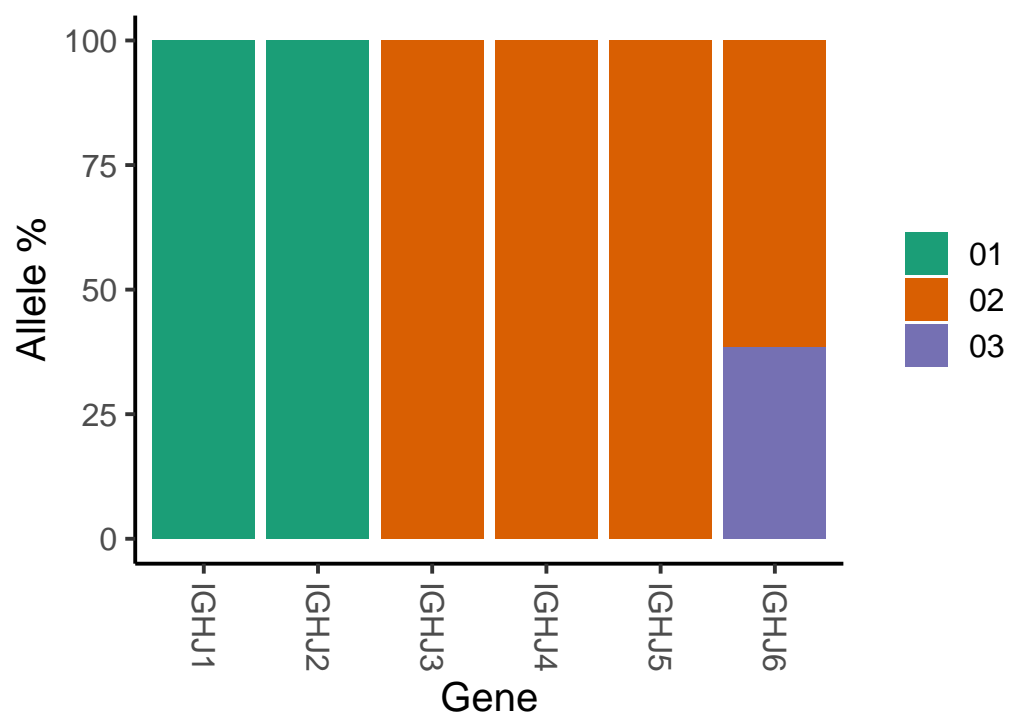


IGHV6-1*01

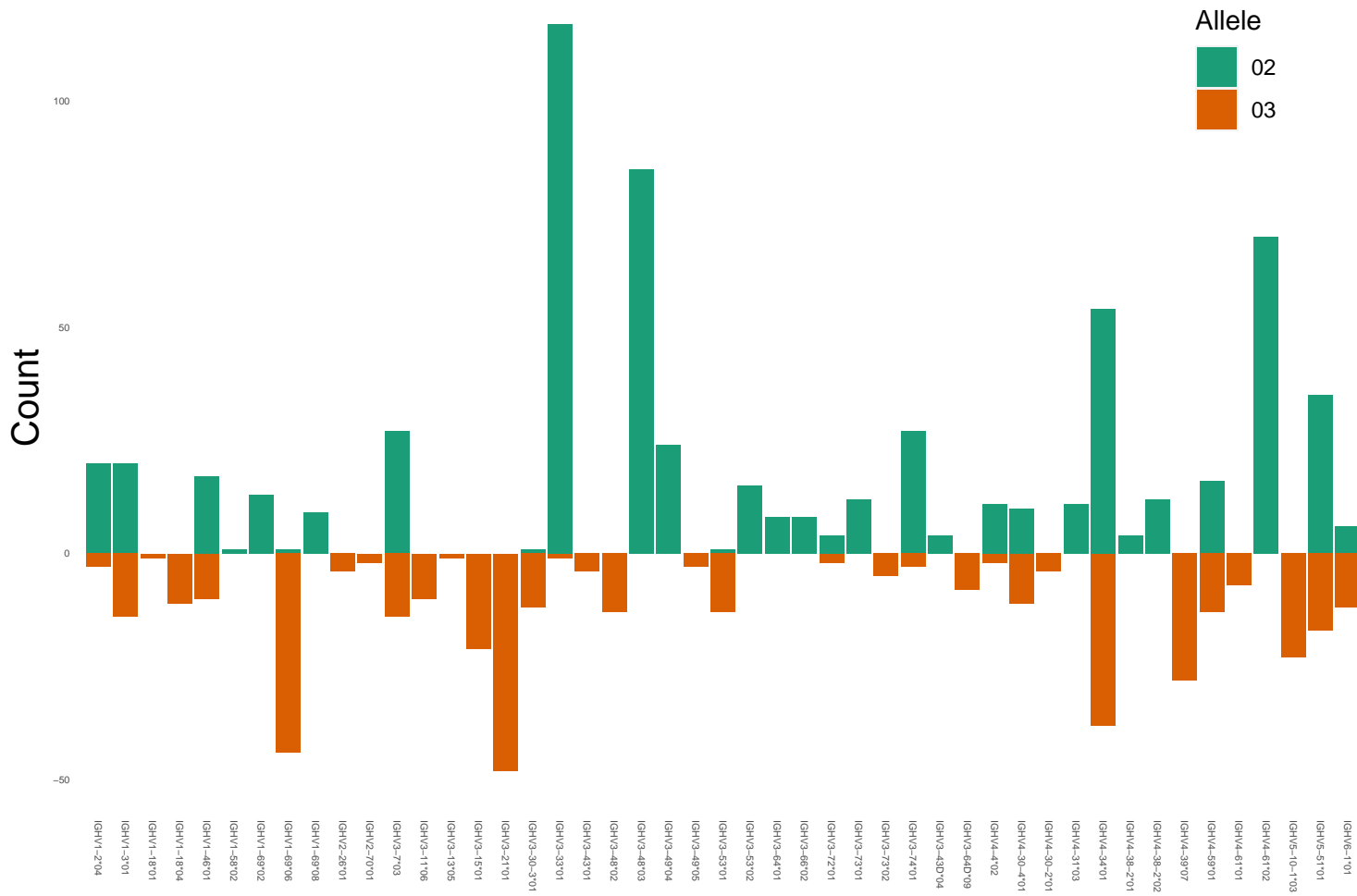
132 sequences assigned
10 (7.6%) exact matches, in which:
10 unique CDR3
2 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.