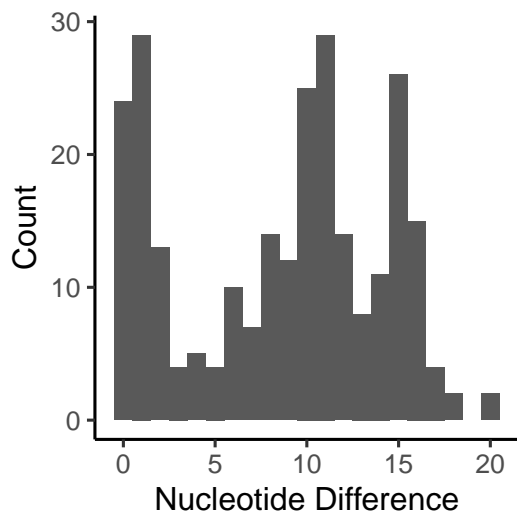


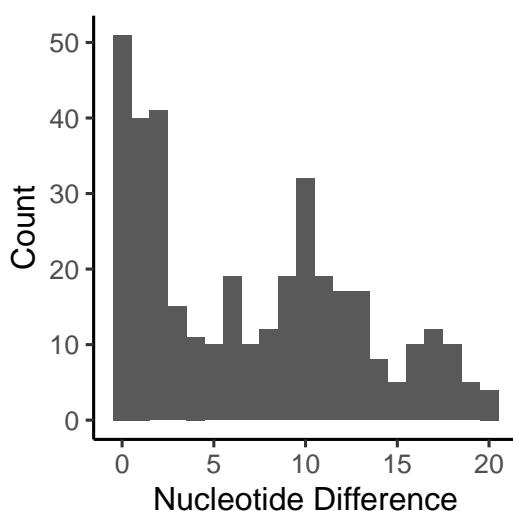
IGHV1-2*04

261 sequences assigned
24 (9.2%) exact matches, in which:
22 unique CDR3
5 unique J



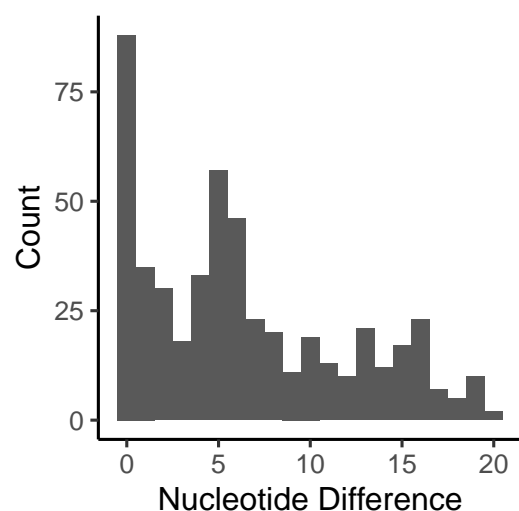
IGHV1-8*01

373 sequences assigned
51 (13.7%) exact matches, in which:
48 unique CDR3
6 unique J



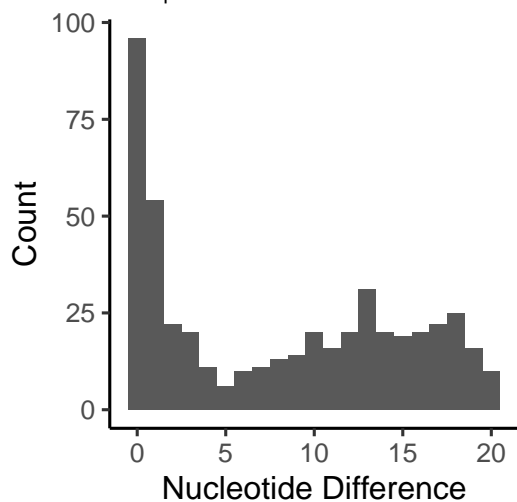
IGHV1-46*01

595 sequences assigned
88 (14.8%) exact matches, in which:
83 unique CDR3
6 unique J



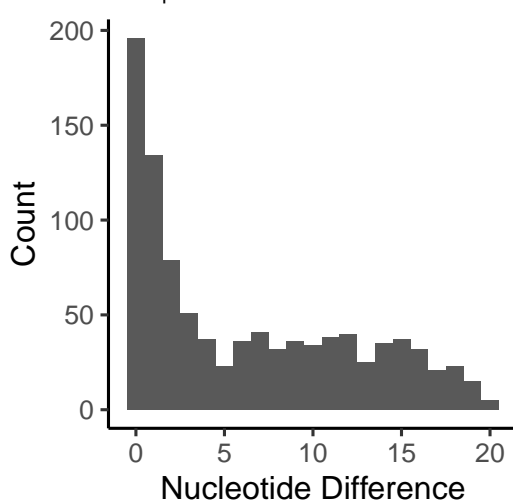
IGHV1-3*01

559 sequences assigned
96 (17.2%) exact matches, in which:
92 unique CDR3
6 unique J



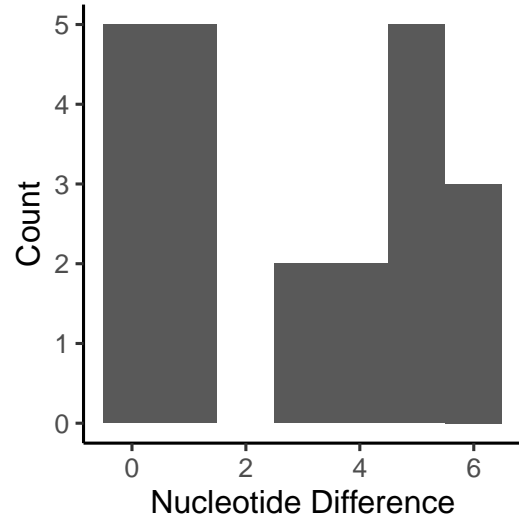
IGHV1-18*01

1021 sequences assigned
196 (19.2%) exact matches, in which:
185 unique CDR3
7 unique J



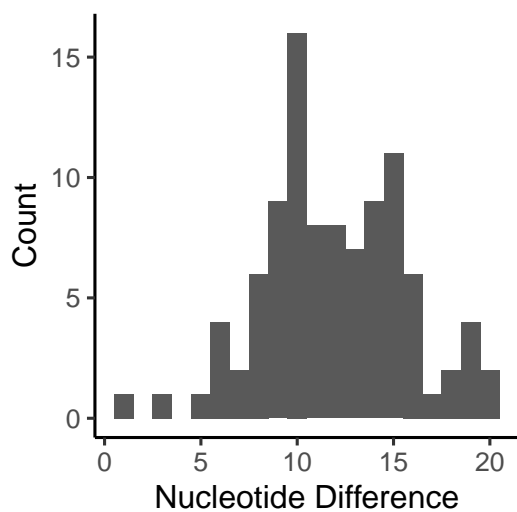
IGHV1-58*01

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



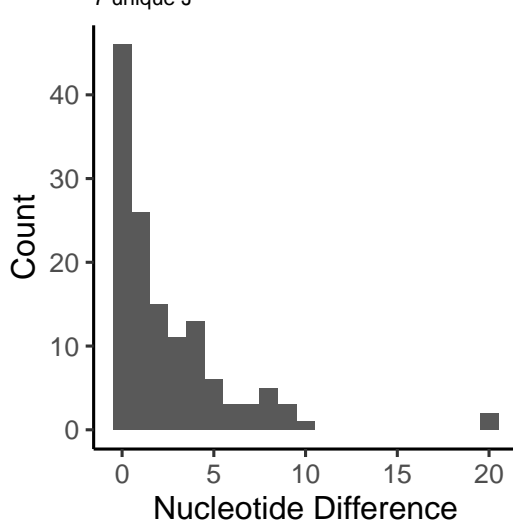
IGHV1-3*04

154 sequences assigned
No exact matches.



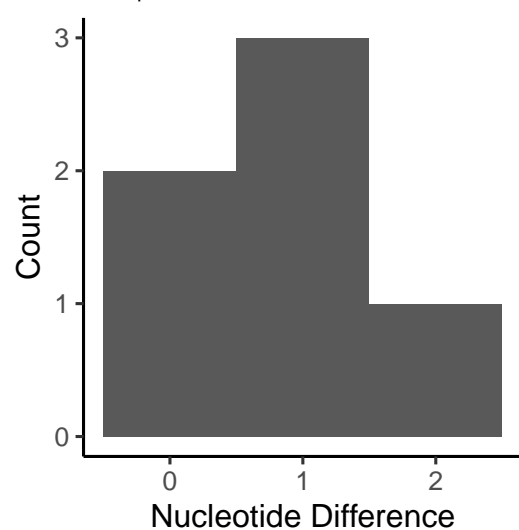
IGHV1-24*01

134 sequences assigned
46 (34.3%) exact matches, in which:
44 unique CDR3
7 unique J



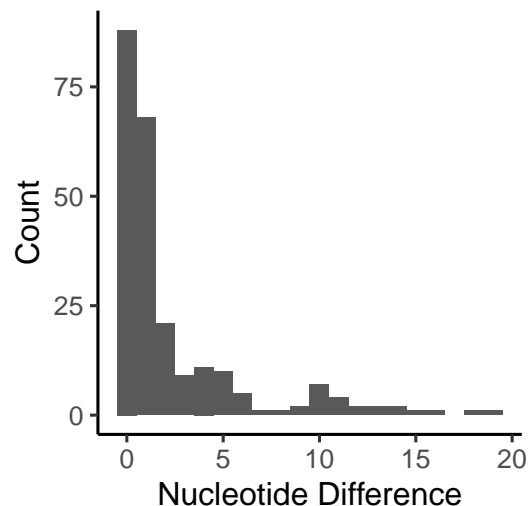
IGHV1-69-2*01

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



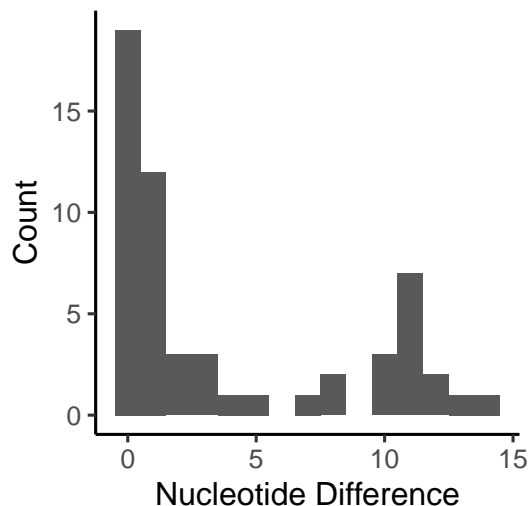
IGHV1-69*04

238 sequences assigned
88 (37%) exact matches, in which:
85 unique CDR3
6 unique J



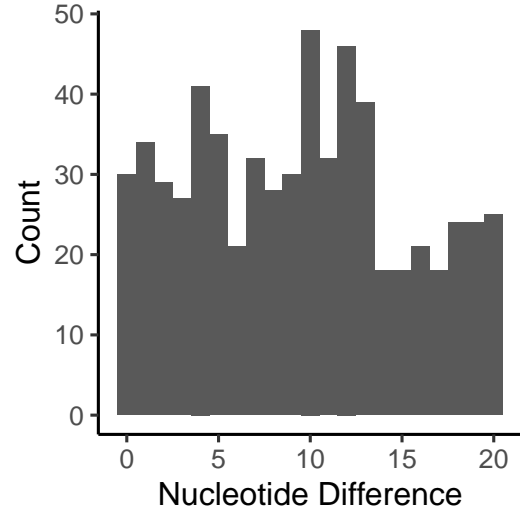
IGHV2-26*01

56 sequences assigned
19 (33.9%) exact matches, in which:
18 unique CDR3
6 unique J



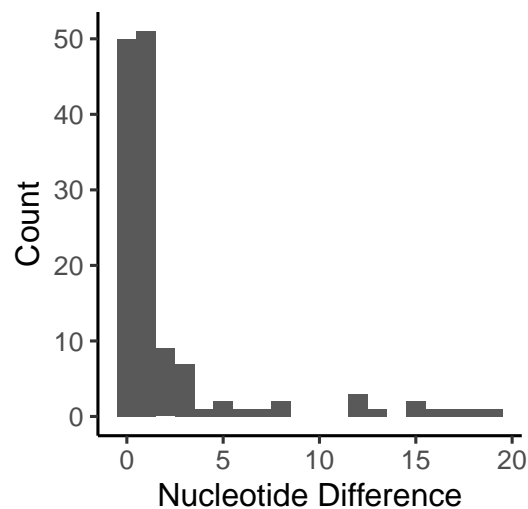
IGHV3-7*01

676 sequences assigned
30 (4.4%) exact matches, in which:
30 unique CDR3
5 unique J



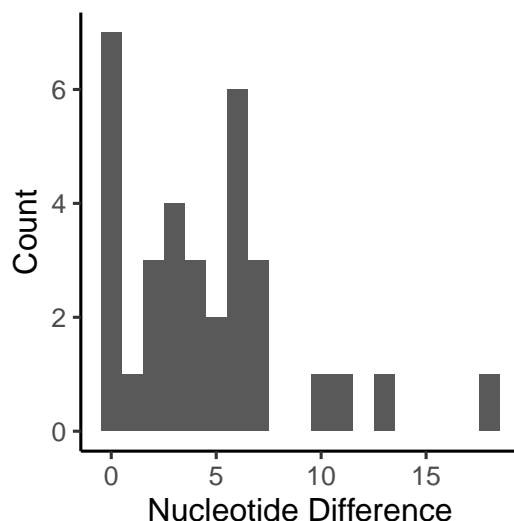
IGHV1-69*06

143 sequences assigned
50 (35%) exact matches, in which:
40 unique CDR3
4 unique J



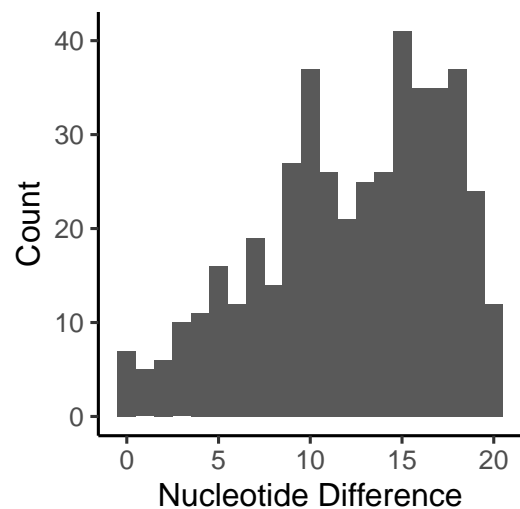
IGHV2-70*01

35 sequences assigned
7 (20%) exact matches, in which:
7 unique CDR3
3 unique J



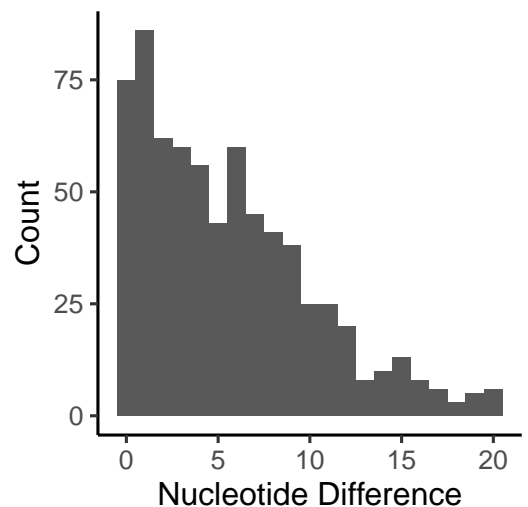
IGHV3-7*04

706 sequences assigned
7 (1%) exact matches, in which:
7 unique CDR3
3 unique J



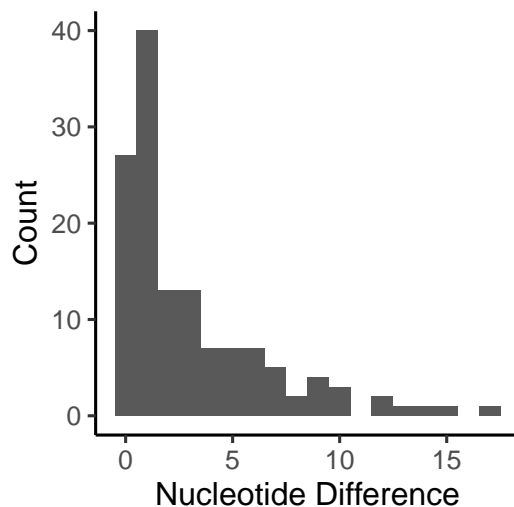
IGHV2-5*02

718 sequences assigned
75 (10.4%) exact matches, in which:
71 unique CDR3
5 unique J



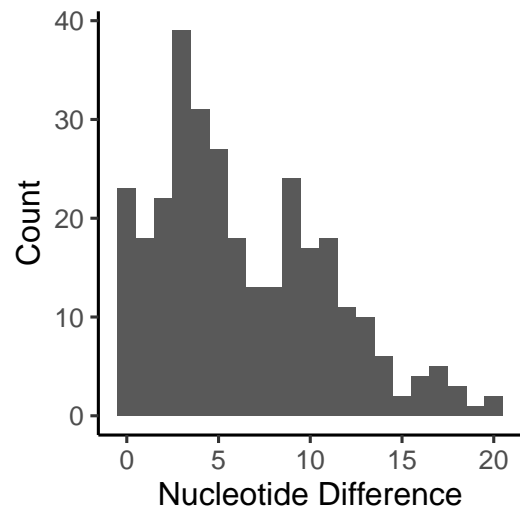
IGHV2-70*15

134 sequences assigned
27 (20.1%) exact matches, in which:
16 unique CDR3
3 unique J



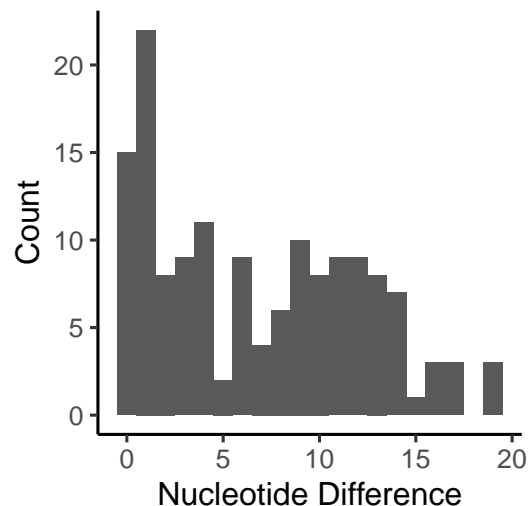
IGHV3-9*01

340 sequences assigned
23 (6.8%) exact matches, in which:
22 unique CDR3
5 unique J



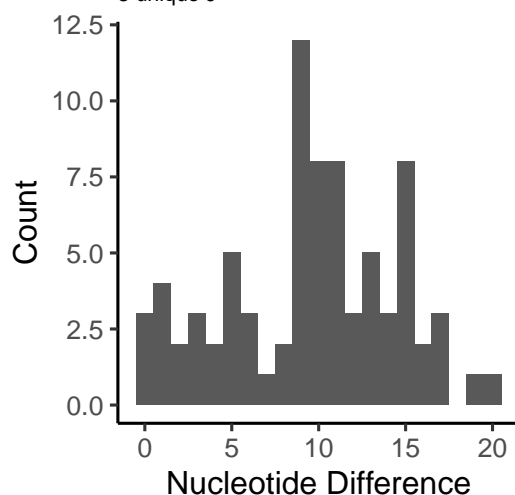
IGHV3-11*01

156 sequences assigned
15 (9.6%) exact matches, in which:
15 unique CDR3
4 unique J



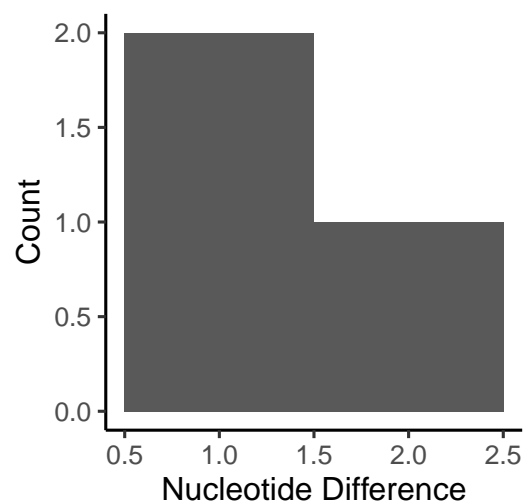
IGHV3-15*01

94 sequences assigned
3 (3.2%) exact matches, in which:
3 unique CDR3
3 unique J



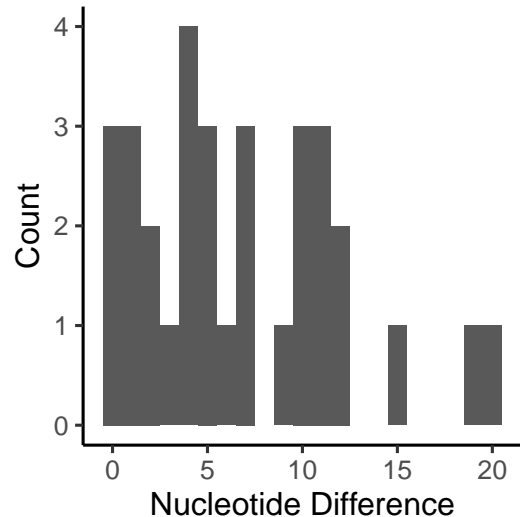
IGHV3-20*04

3 sequences assigned
No exact matches.



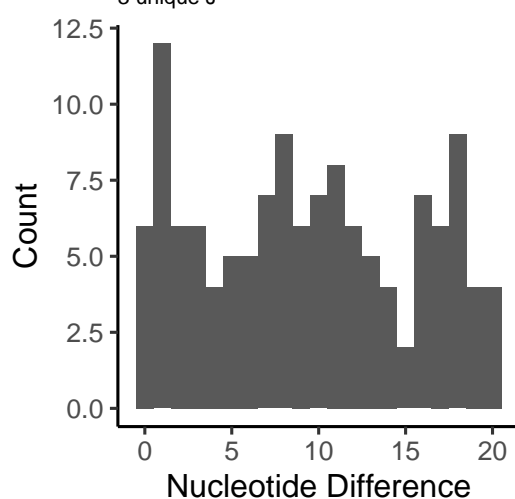
IGHV3-11*06

33 sequences assigned
3 (9.1%) exact matches, in which:
3 unique CDR3
2 unique J



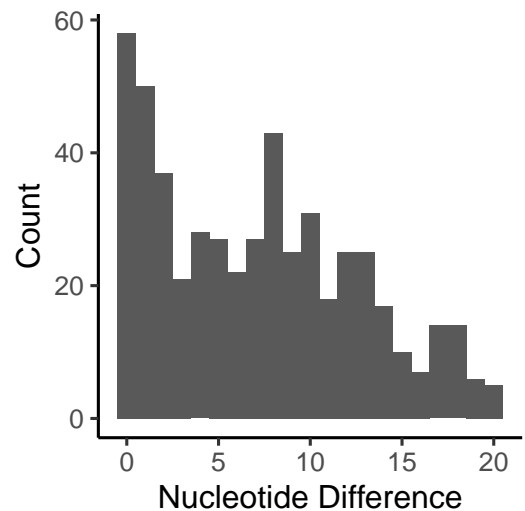
IGHV3-15*07

159 sequences assigned
6 (3.8%) exact matches, in which:
5 unique CDR3
3 unique J



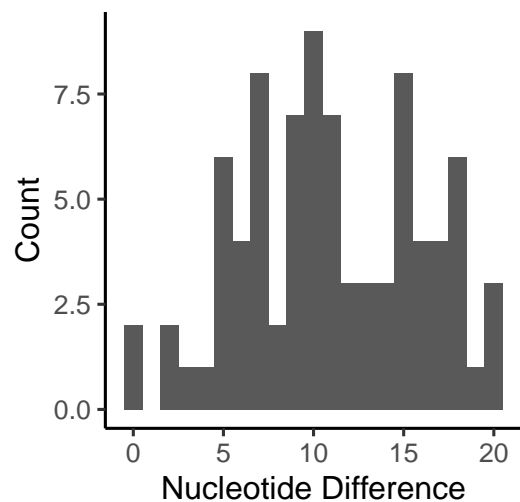
IGHV3-21*01

640 sequences assigned
58 (9.1%) exact matches, in which:
51 unique CDR3
7 unique J



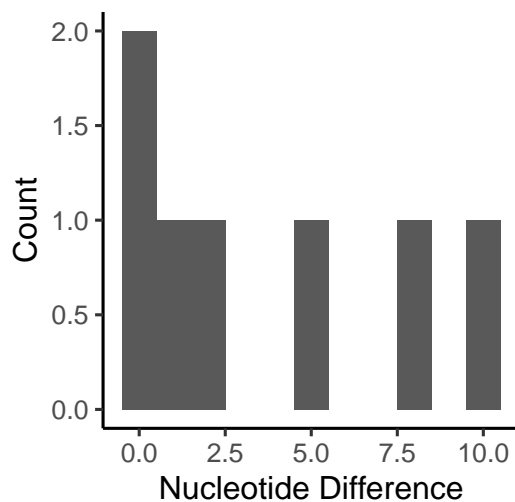
IGHV3-13*01

130 sequences assigned
2 (1.5%) exact matches, in which:
2 unique CDR3
2 unique J



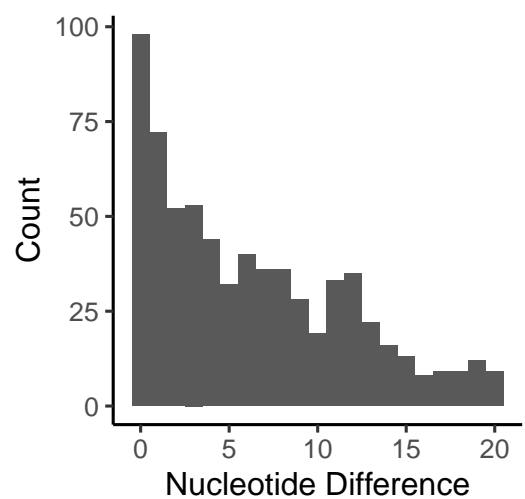
IGHV3-20*01

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J



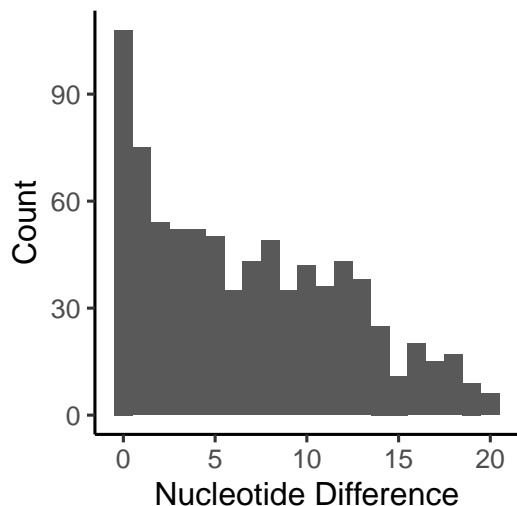
IGHV3-30-3*01

693 sequences assigned
98 (14.1%) exact matches, in which:
92 unique CDR3
7 unique J



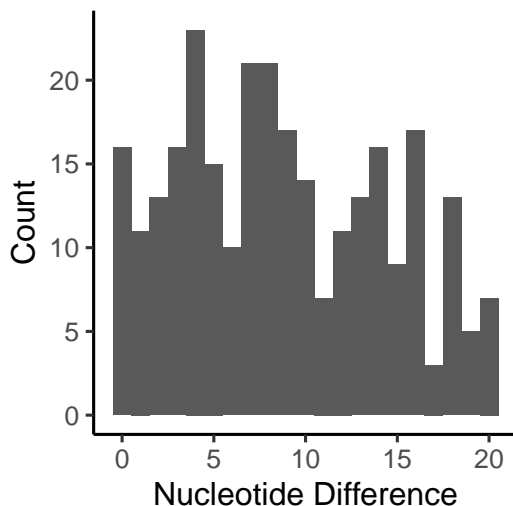
IGHV3-33*01

859 sequences assigned
108 (12.6%) exact matches, in which:
104 unique CDR3
6 unique J



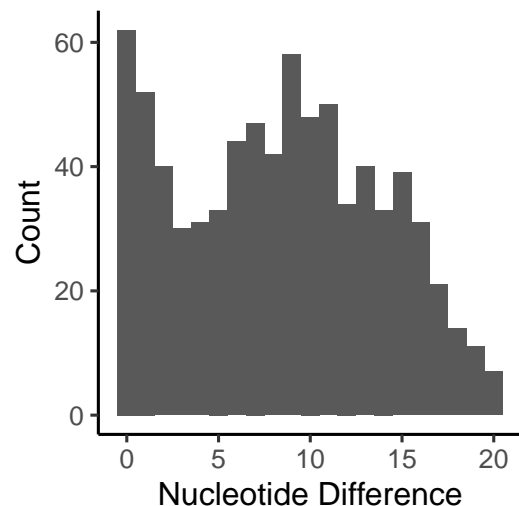
IGHV3-48*02

297 sequences assigned
16 (5.4%) exact matches, in which:
14 unique CDR3
4 unique J



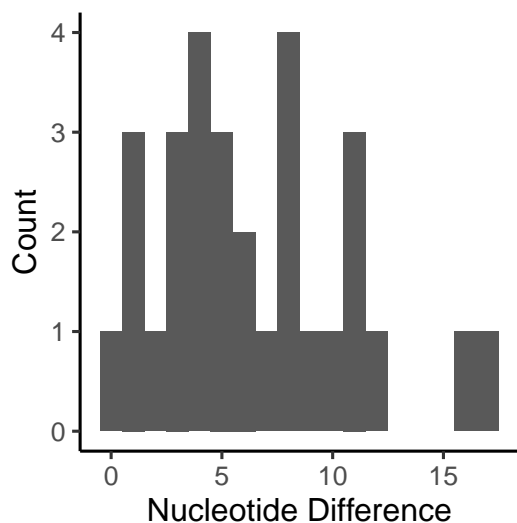
IGHV3-53*01

833 sequences assigned
62 (7.4%) exact matches, in which:
61 unique CDR3
6 unique J



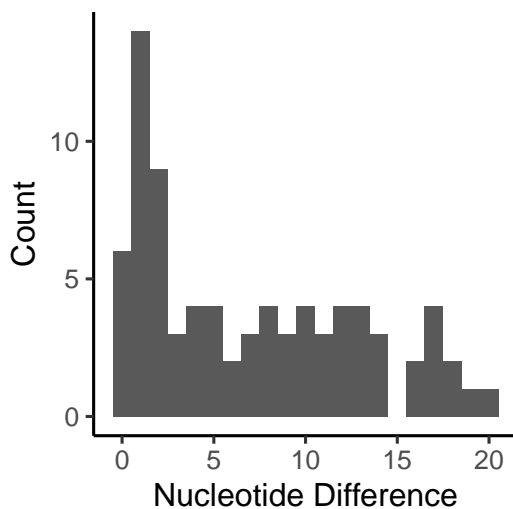
IGHV3-43*01

30 sequences assigned
1 (3.3%) exact matches, in which:
1 unique CDR3
1 unique J



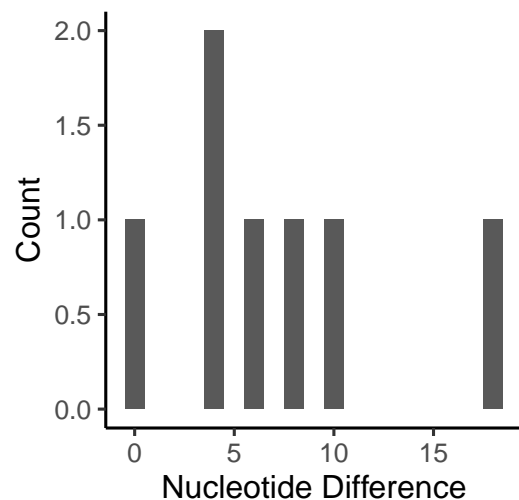
IGHV3-49*03

89 sequences assigned
6 (6.7%) exact matches, in which:
5 unique CDR3
1 unique J



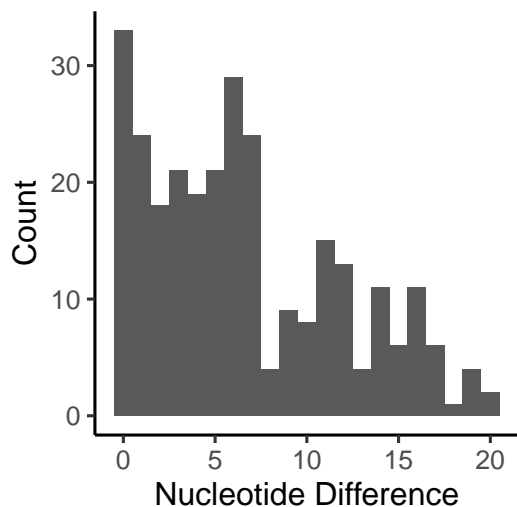
IGHV3-64*02

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



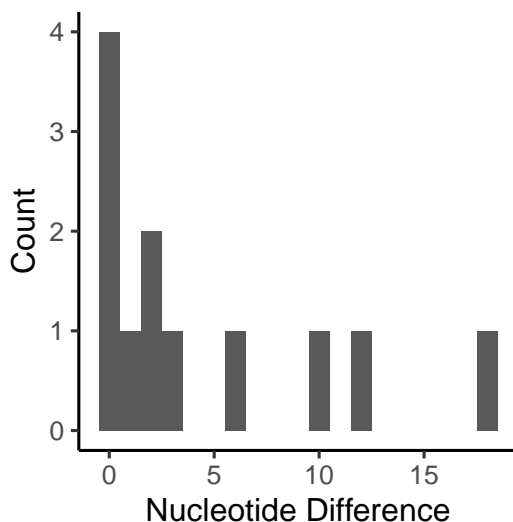
IGHV3-48*01

299 sequences assigned
33 (11%) exact matches, in which:
27 unique CDR3
4 unique J



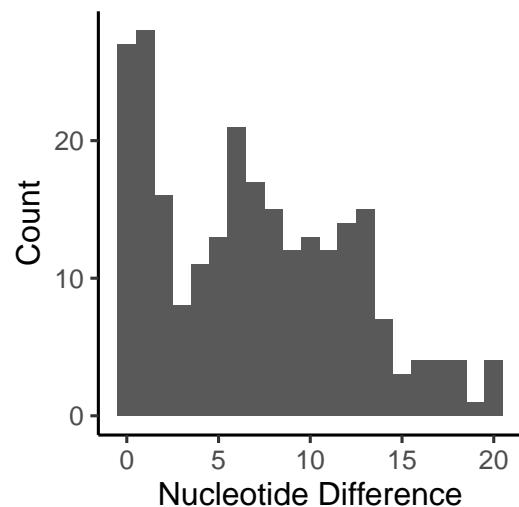
IGHV3-49*05

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



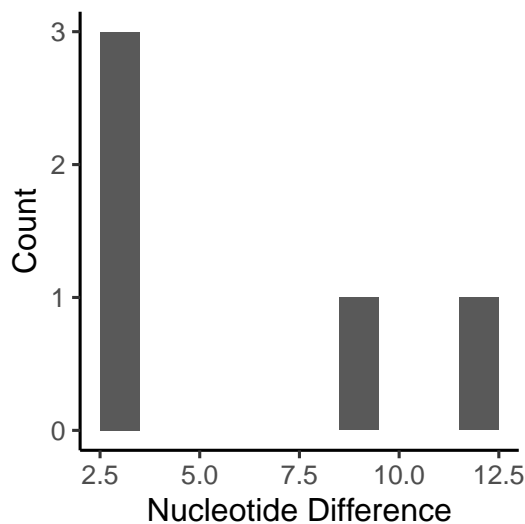
IGHV3-66*01

266 sequences assigned
27 (10.2%) exact matches, in which:
26 unique CDR3
3 unique J



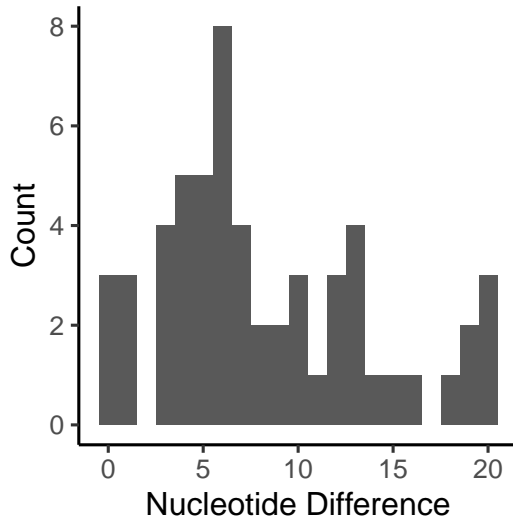
IGHV3-69-1*01

5 sequences assigned
No exact matches.



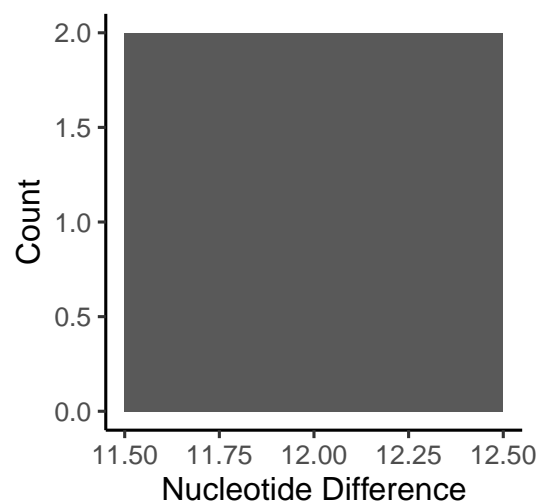
IGHV3-73*01

62 sequences assigned
3 (4.8%) exact matches, in which:
3 unique CDR3
3 unique J



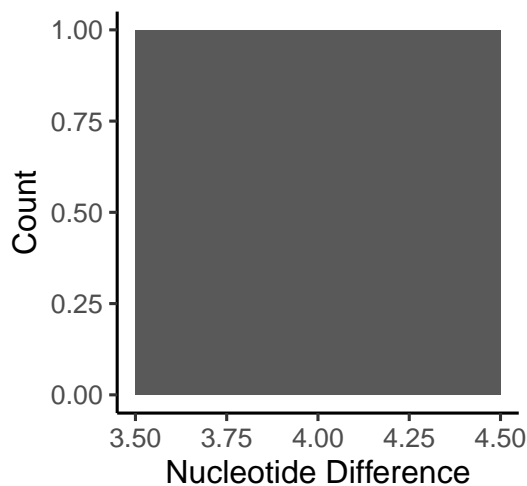
IGHV3-43D*04

2 sequences assigned
No exact matches.



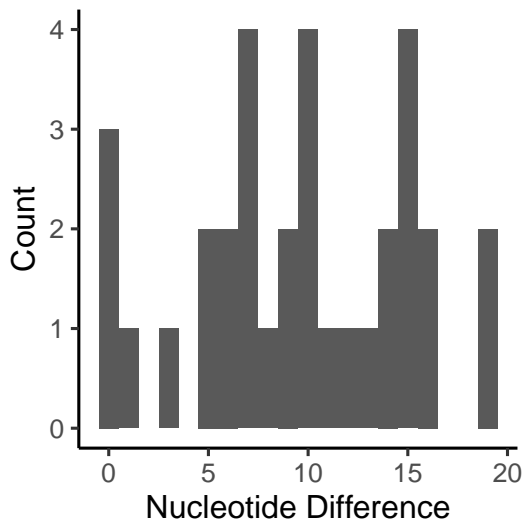
IGHV3-69-1*02

5 sequences assigned
No exact matches.



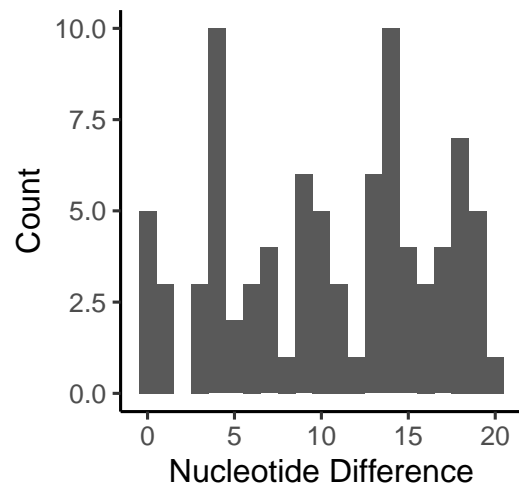
IGHV3-73*02

36 sequences assigned
3 (8.3%) exact matches, in which:
3 unique CDR3
2 unique J



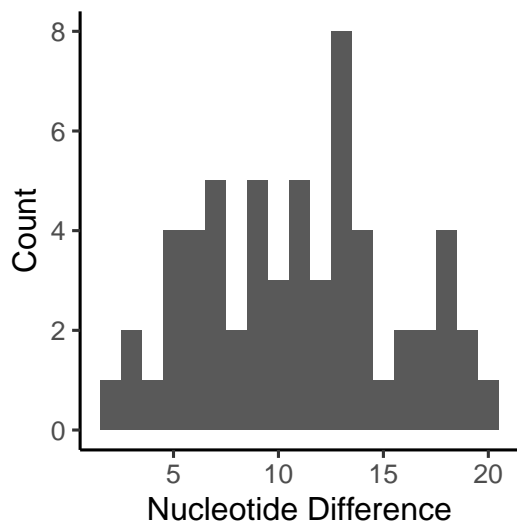
IGHV3-64D*06

90 sequences assigned
5 (5.6%) exact matches, in which:
5 unique CDR3
1 unique J



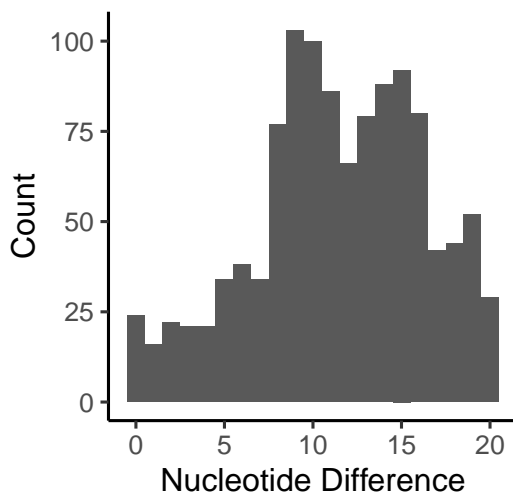
IGHV3-72*01

72 sequences assigned
No exact matches.



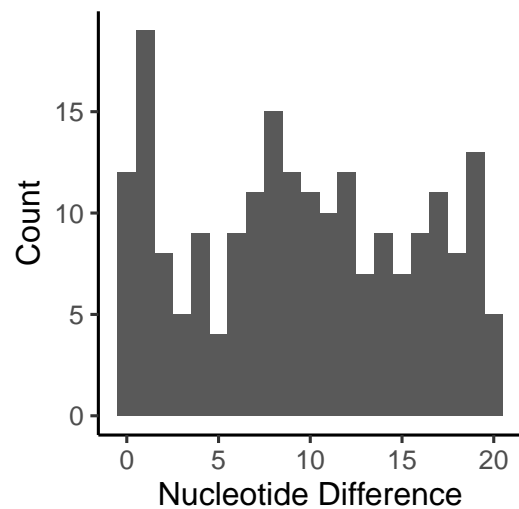
IGHV3-74*01

1456 sequences assigned
24 (1.6%) exact matches, in which:
20 unique CDR3
5 unique J



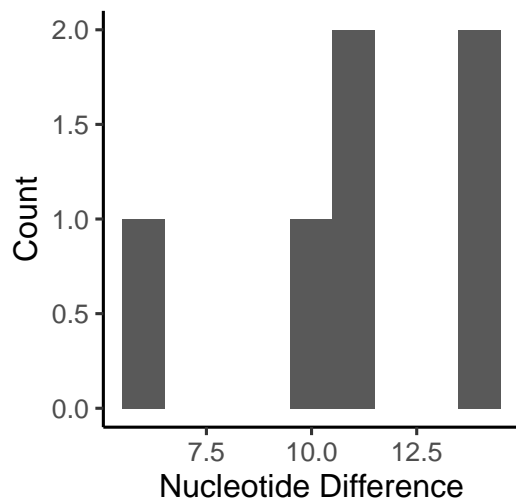
IGHV4-4*02

261 sequences assigned
12 (4.6%) exact matches, in which:
12 unique CDR3
6 unique J



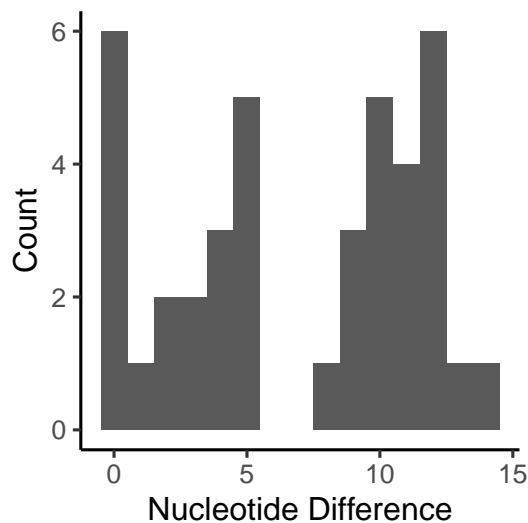
IGHV4-28*01

6 sequences assigned
No exact matches.



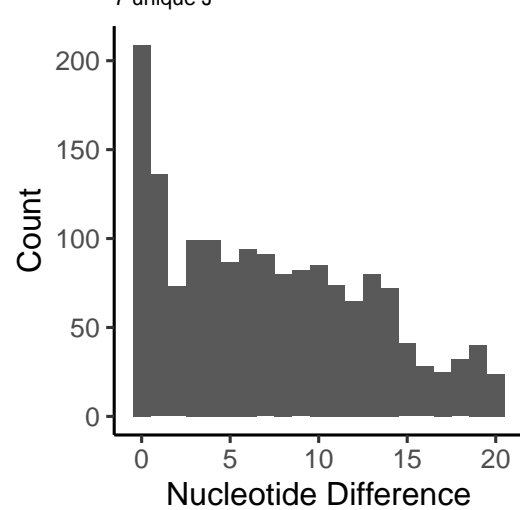
IGHV4-30-2*01

44 sequences assigned
6 (13.6%) exact matches, in which:
6 unique CDR3
4 unique J



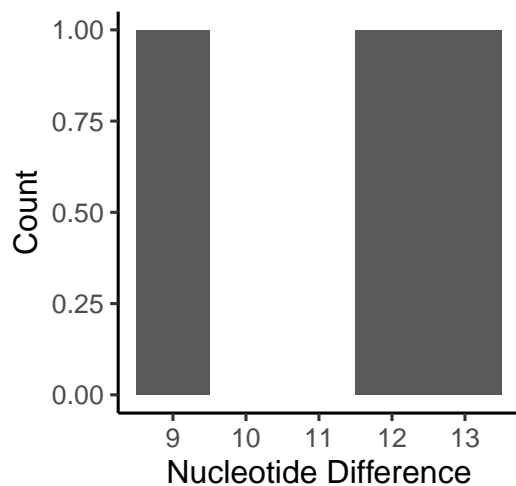
IGHV4-39*01

1815 sequences assigned
209 (11.5%) exact matches, in which:
190 unique CDR3
7 unique J



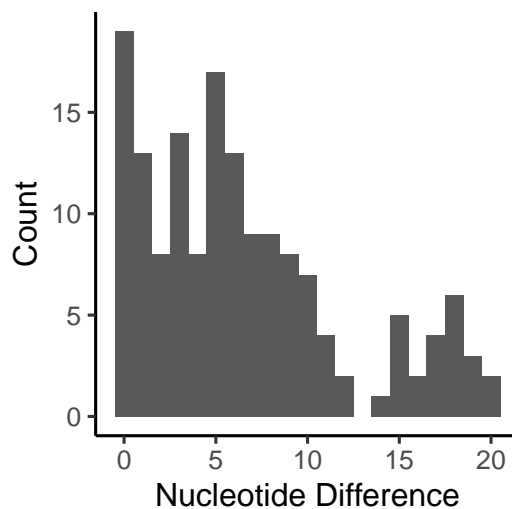
IGHV4-28*07

3 sequences assigned
No exact matches.



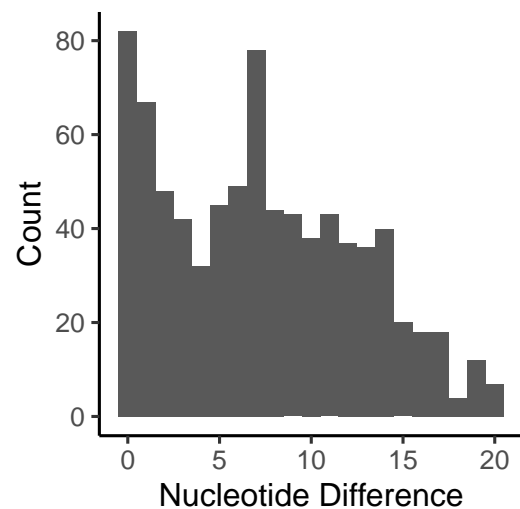
IGHV4-31*03

241 sequences assigned
19 (7.9%) exact matches, in which:
17 unique CDR3
6 unique J



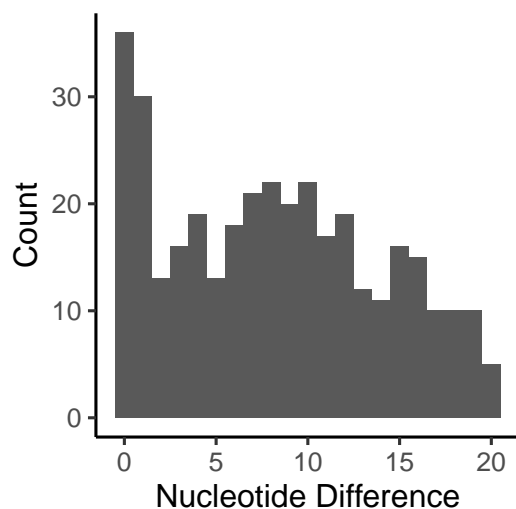
IGHV4-59*01

866 sequences assigned
82 (9.5%) exact matches, in which:
64 unique CDR3
7 unique J



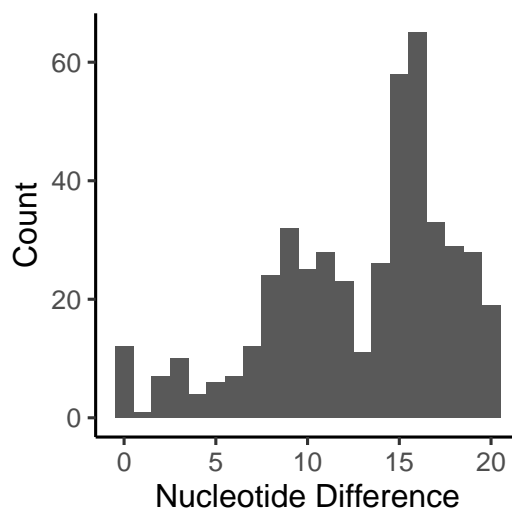
IGHV4-30-4*01

419 sequences assigned
36 (8.6%) exact matches, in which:
35 unique CDR3
6 unique J



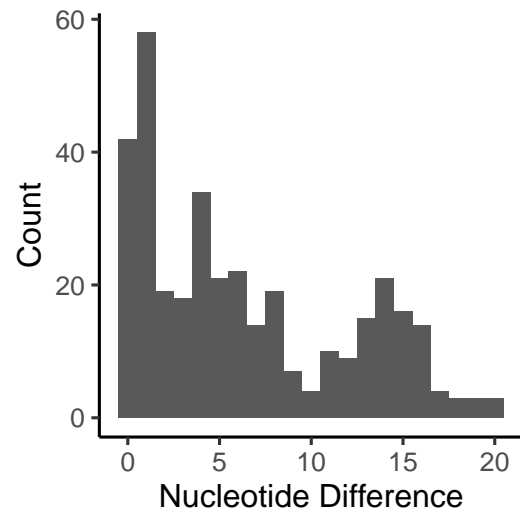
IGHV4-34*01

542 sequences assigned
12 (2.2%) exact matches, in which:
10 unique CDR3
5 unique J



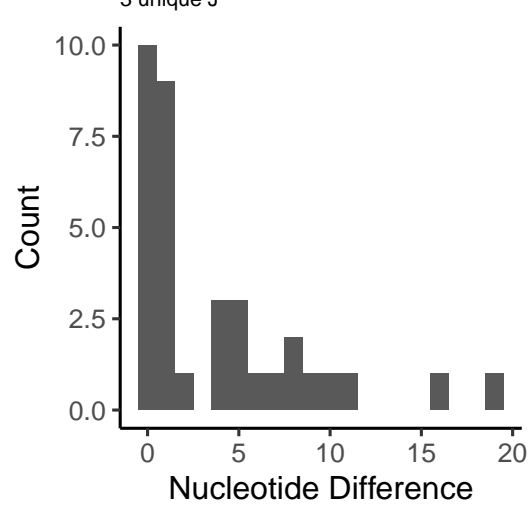
IGHV4-61*01

363 sequences assigned
42 (11.6%) exact matches, in which:
25 unique CDR3
6 unique J



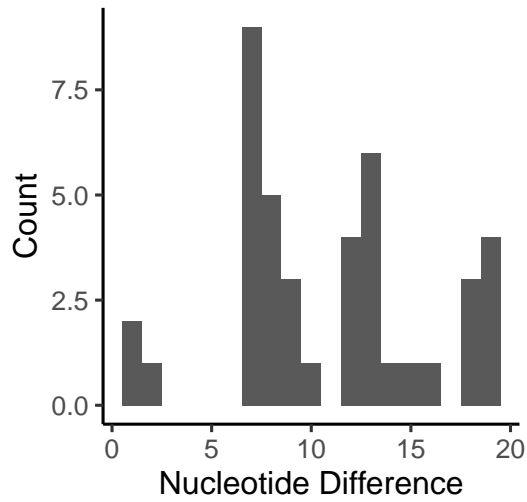
IGHV5-10-1*03

36 sequences assigned
10 (27.8%) exact matches, in which:
8 unique CDR3
3 unique J



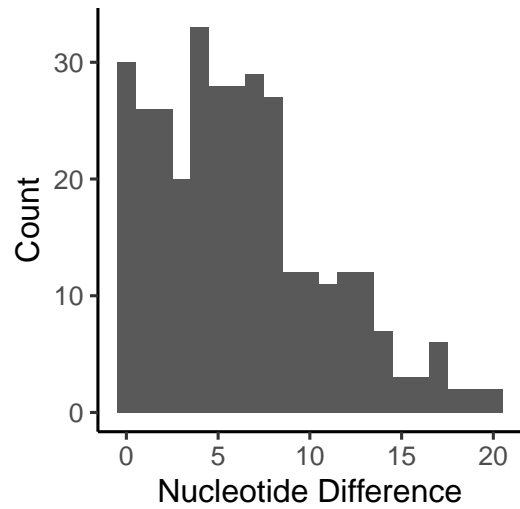
IGHV7-4-1*01

42 sequences assigned
No exact matches.



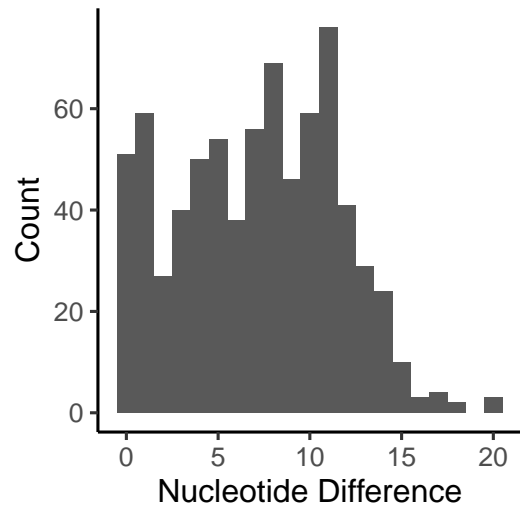
IGHV5-51*01

350 sequences assigned
30 (8.6%) exact matches, in which:
27 unique CDR3
5 unique J

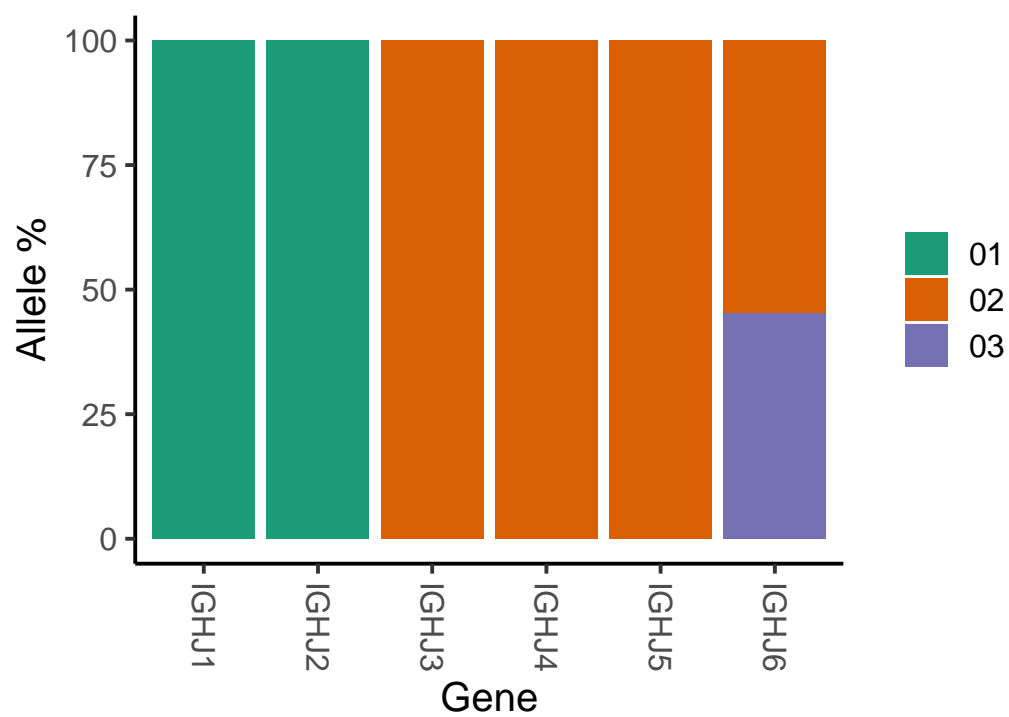


IGHV6-1*01

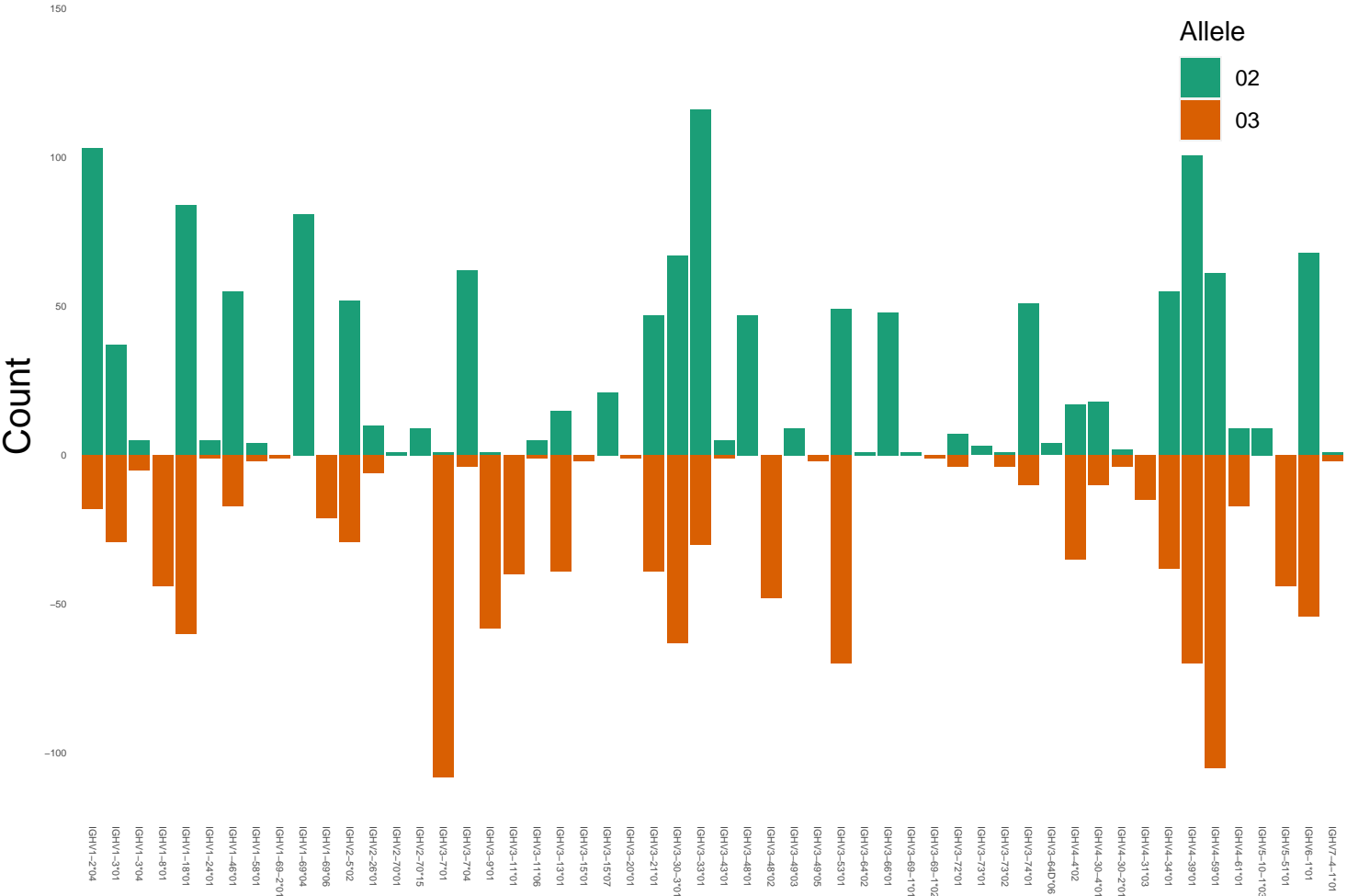
746 sequences assigned
51 (6.8%) exact matches, in which:
47 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.