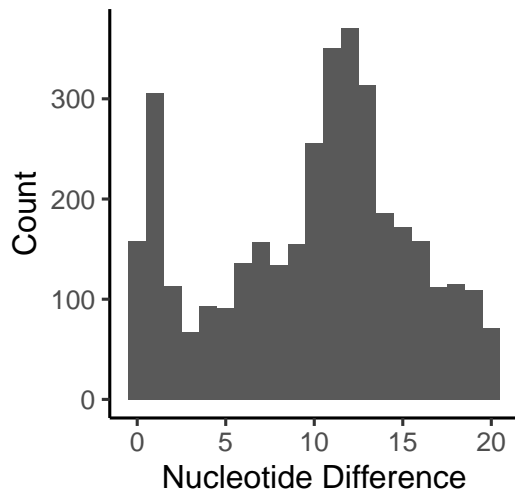


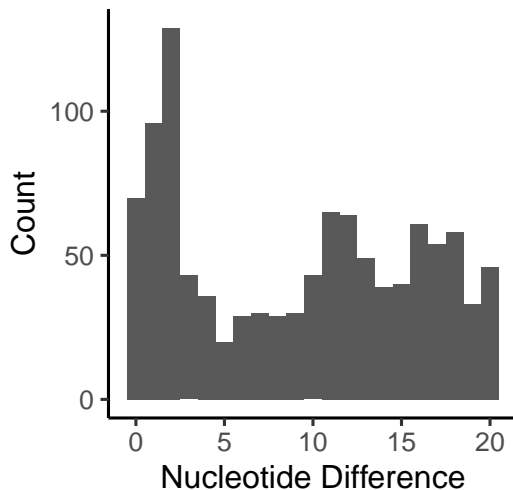
IGHV1-2*02

4275 sequences assigned
158 (3.7%) exact matches, in which:
121 unique CDR3
5 unique J



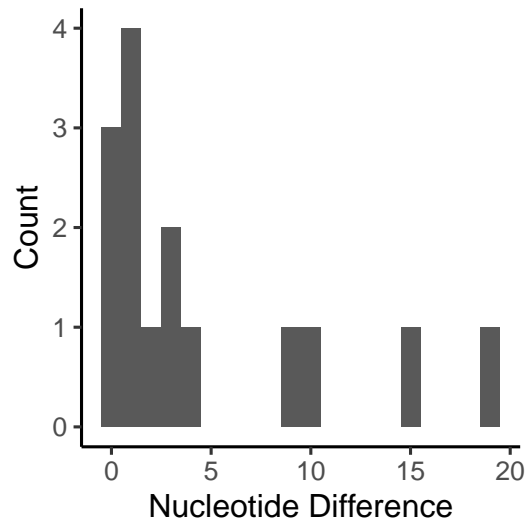
IGHV1-18*01

1245 sequences assigned
70 (5.6%) exact matches, in which:
55 unique CDR3
4 unique J



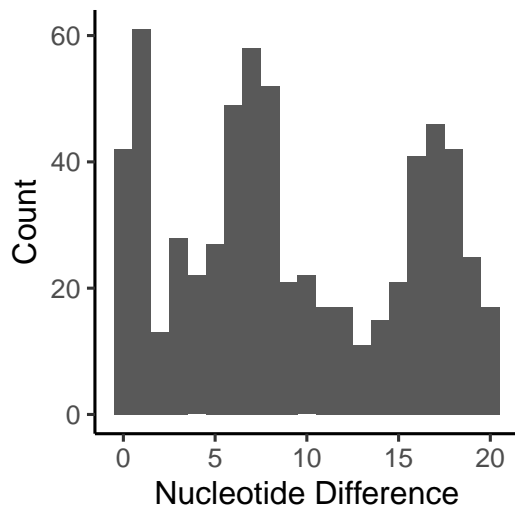
IGHV1-45*02

15 sequences assigned
3 (20%) exact matches, in which:
2 unique CDR3
1 unique J



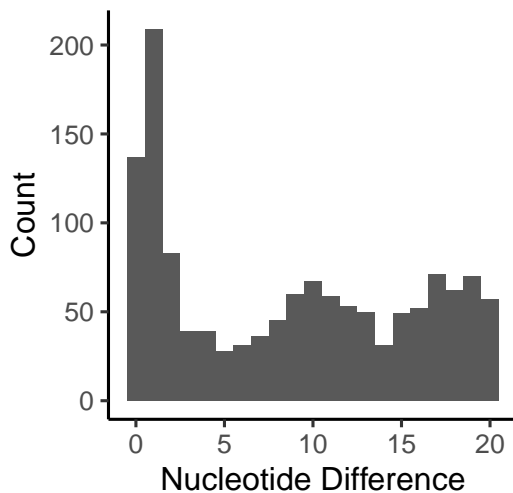
IGHV1-3*01_05

1345 sequences assigned
42 (3.1%) exact matches, in which:
31 unique CDR3
5 unique J



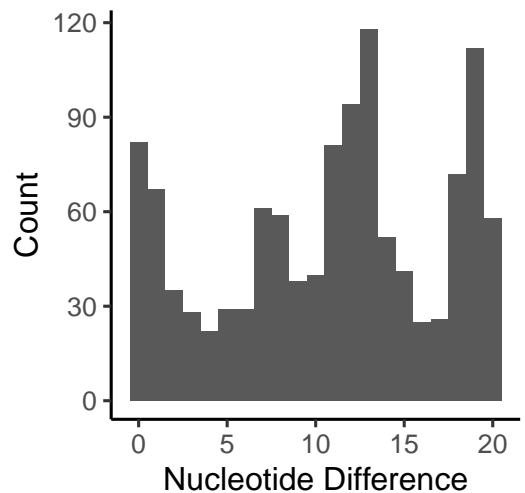
IGHV1-18*04

1743 sequences assigned
137 (7.9%) exact matches, in which:
105 unique CDR3
5 unique J



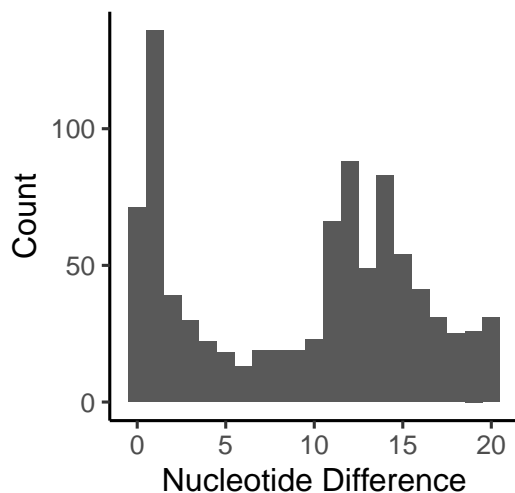
IGHV1-46*01

1480 sequences assigned
82 (5.5%) exact matches, in which:
73 unique CDR3
6 unique J



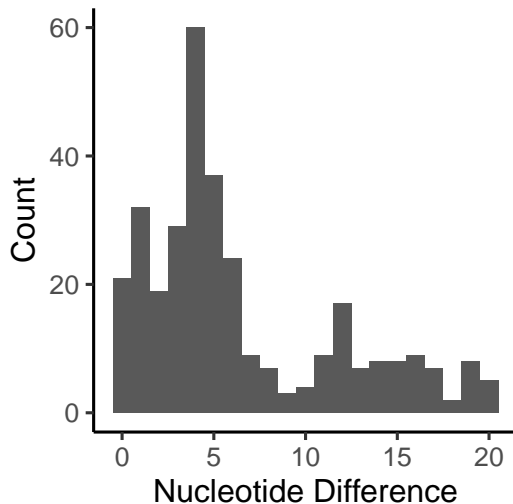
IGHV1-8*01

1095 sequences assigned
71 (6.5%) exact matches, in which:
52 unique CDR3
5 unique J



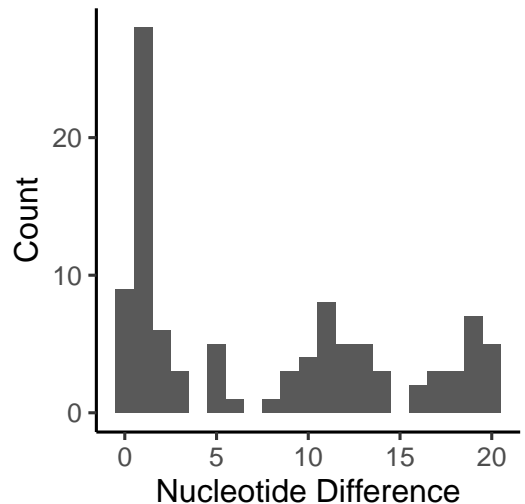
IGHV1-24*01

432 sequences assigned
21 (4.9%) exact matches, in which:
16 unique CDR3
4 unique J



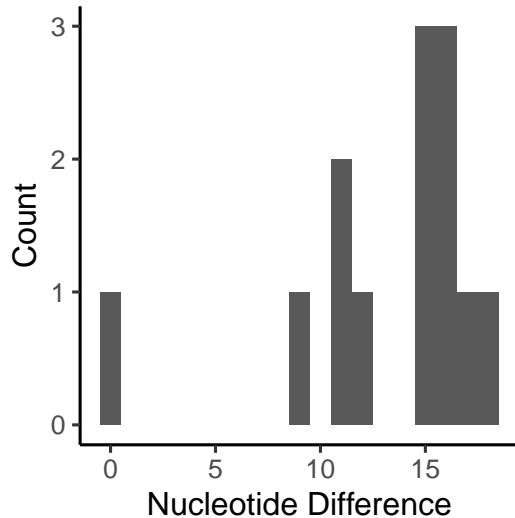
IGHV1-58*01_03

126 sequences assigned
9 (7.1%) exact matches, in which:
8 unique CDR3
4 unique J



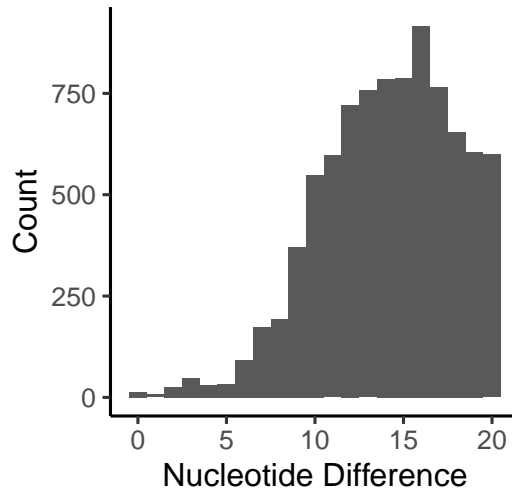
IGHV1-69-2*01

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



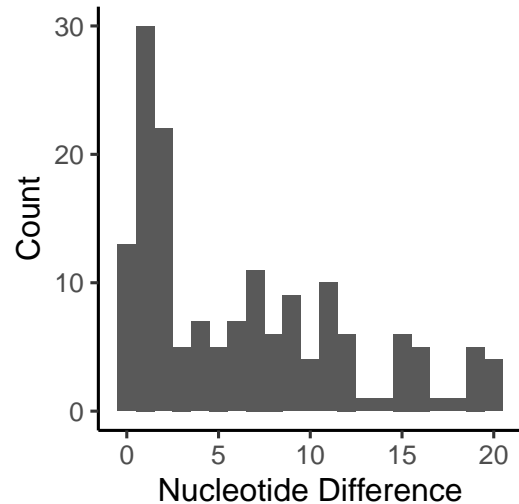
IGHV2-5*01

9988 sequences assigned
13 (0.1%) exact matches, in which:
11 unique CDR3
3 unique J



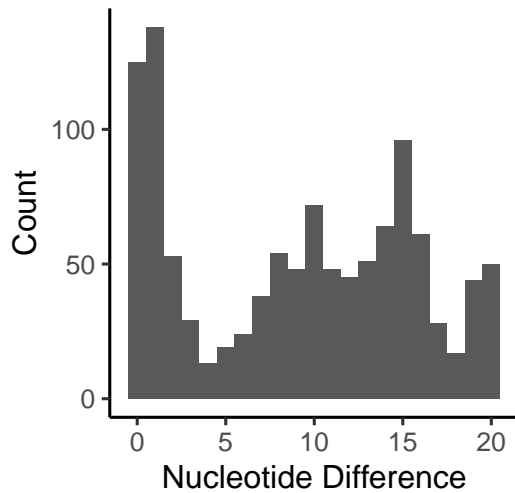
IGHV2-70*04

181 sequences assigned
13 (7.2%) exact matches, in which:
11 unique CDR3
3 unique J



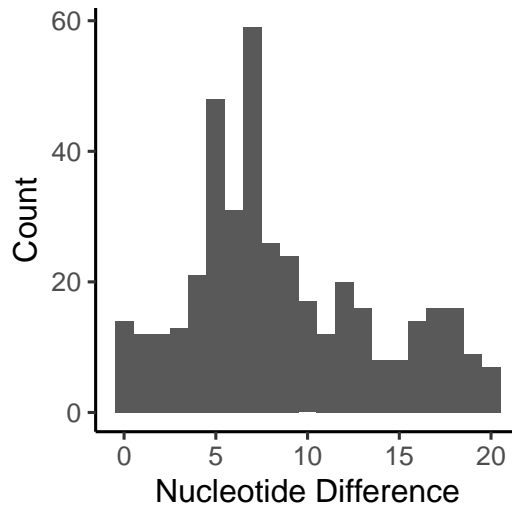
IGHV1-69*01_12_13

1445 sequences assigned
125 (8.7%) exact matches, in which:
110 unique CDR3
5 unique J



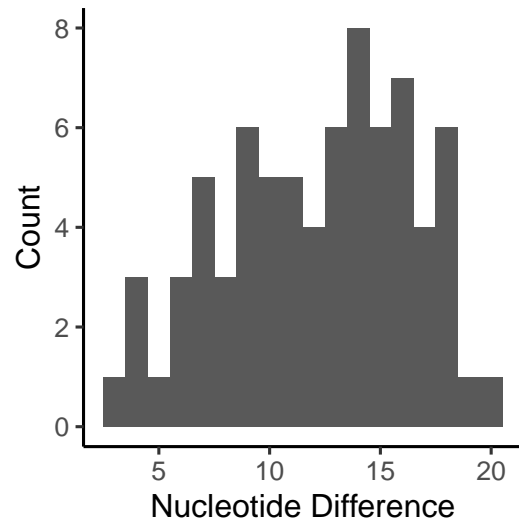
IGHV2-5*02

449 sequences assigned
14 (3.1%) exact matches, in which:
13 unique CDR3
3 unique J



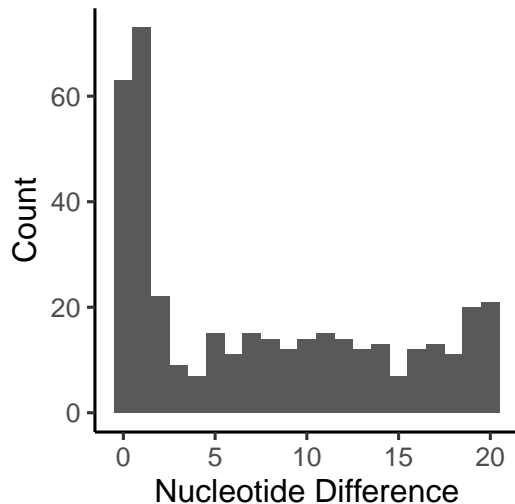
IGHV2-70*12

87 sequences assigned
No exact matches.



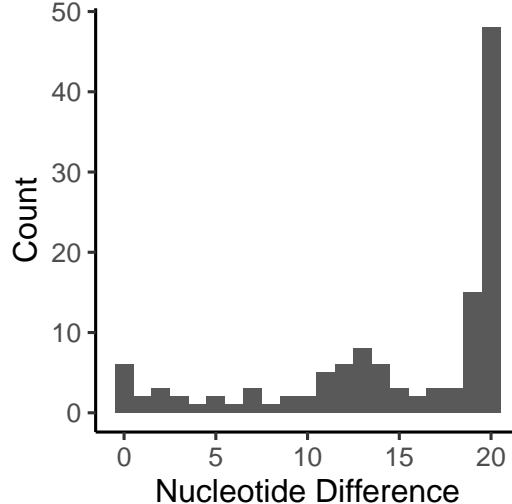
IGHV1-69*06_14

544 sequences assigned
63 (11.6%) exact matches, in which:
55 unique CDR3
5 unique J



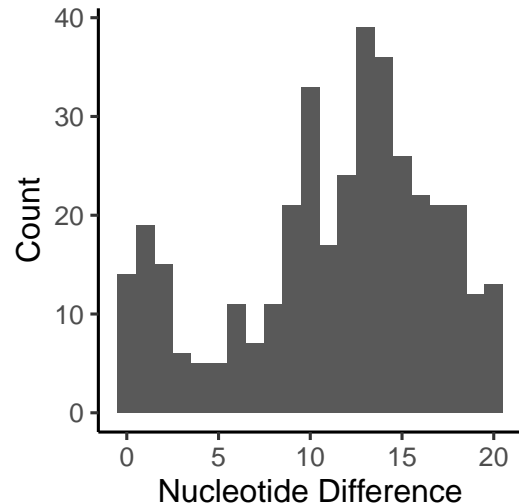
IGHV2-26*01

162 sequences assigned
6 (3.7%) exact matches, in which:
6 unique CDR3
4 unique J



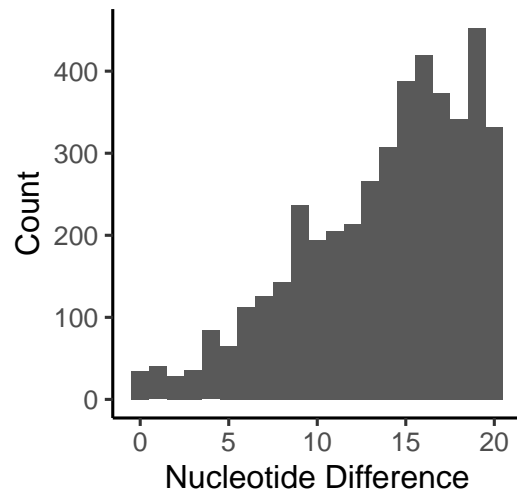
IGHV2-70*11_15

547 sequences assigned
14 (2.6%) exact matches, in which:
14 unique CDR3
3 unique J



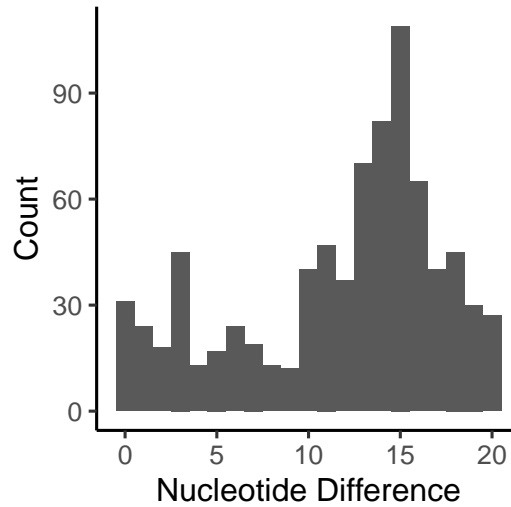
IGHV3-7*01

5706 sequences assigned
35 (0.6%) exact matches, in which:
32 unique CDR3
4 unique J



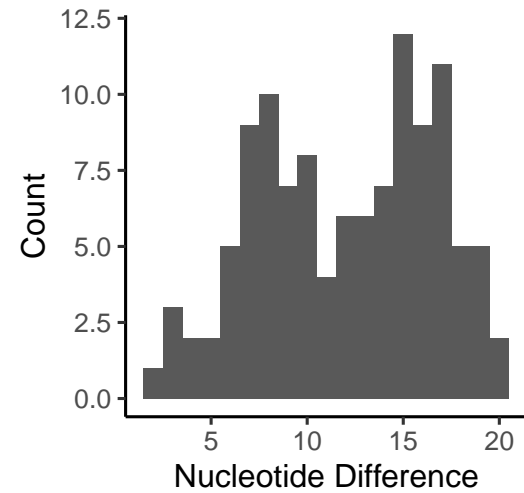
IGHV3-11*01

1023 sequences assigned
31 (3%) exact matches, in which:
30 unique CDR3
5 unique J



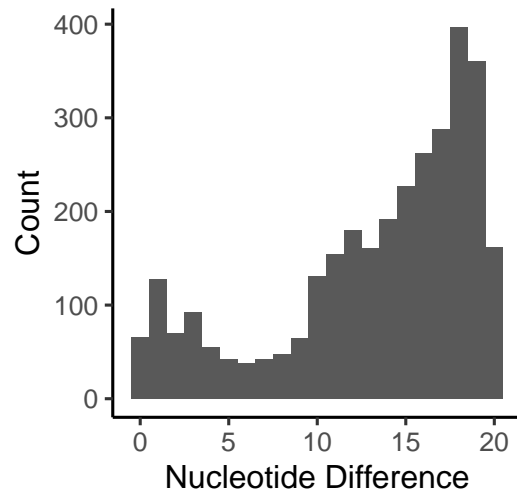
IGHV3-13*01

129 sequences assigned
No exact matches.



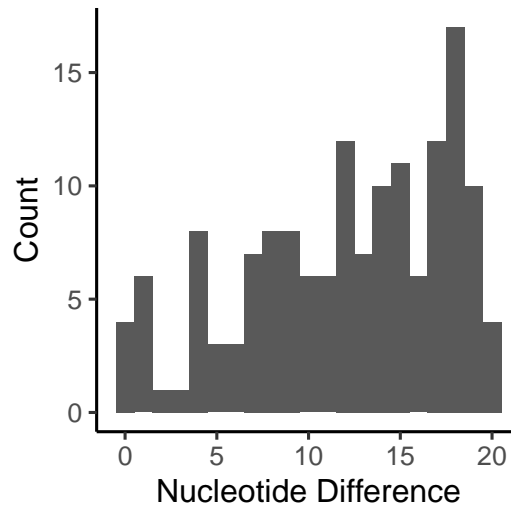
IGHV3-7*03

3690 sequences assigned
66 (1.8%) exact matches, in which:
46 unique CDR3
4 unique J



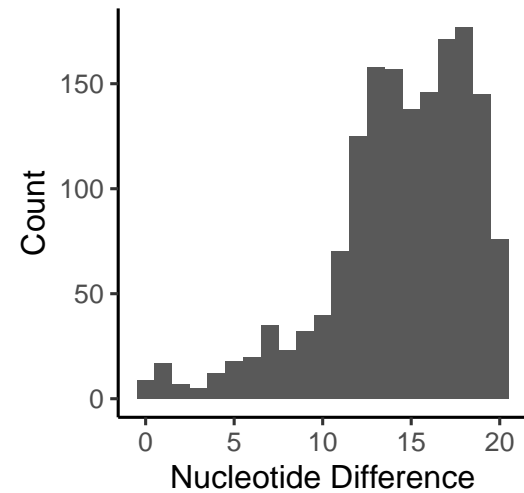
IGHV3-11*04

193 sequences assigned
4 (2.1%) exact matches, in which:
4 unique CDR3
1 unique J



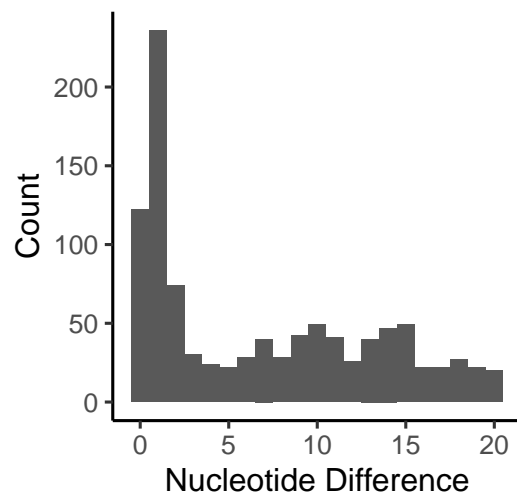
IGHV3-15*07

1907 sequences assigned
9 (0.5%) exact matches, in which:
8 unique CDR3
2 unique J



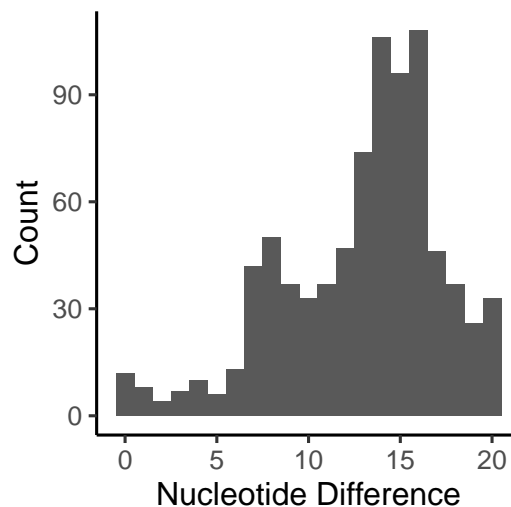
IGHV3-9*01

1122 sequences assigned
122 (10.9%) exact matches, in which:
87 unique CDR3
5 unique J



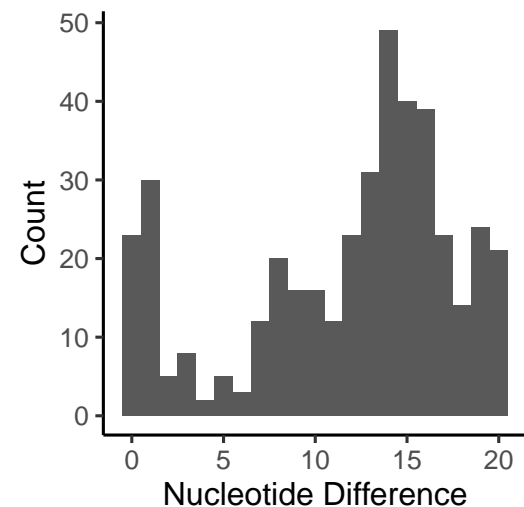
IGHV3-11*06

912 sequences assigned
12 (1.3%) exact matches, in which:
11 unique CDR3
4 unique J



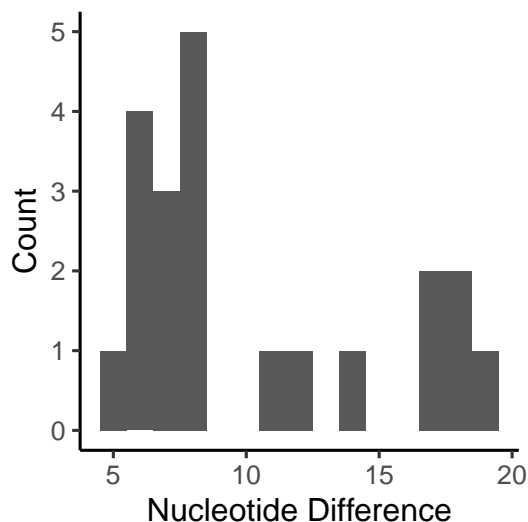
IGHV3-15*01_02

649 sequences assigned
23 (3.5%) exact matches, in which:
20 unique CDR3
4 unique J



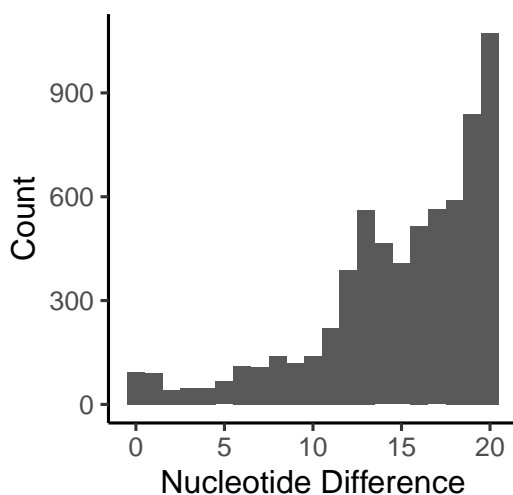
IGHV3-20*03_04

29 sequences assigned
No exact matches.



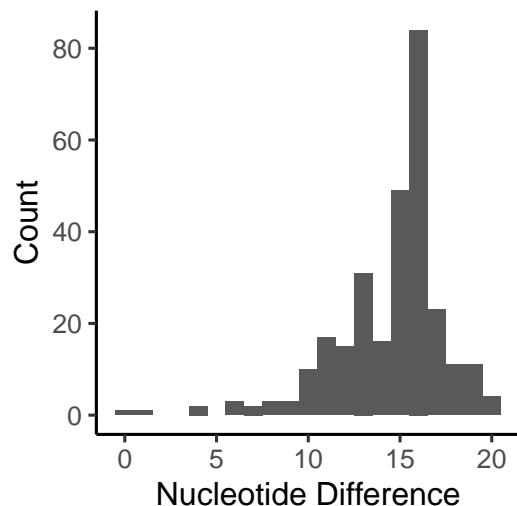
IGHV3-23*01_04

12304 sequences assigned
94 (0.8%) exact matches, in which:
88 unique CDR3
6 unique J



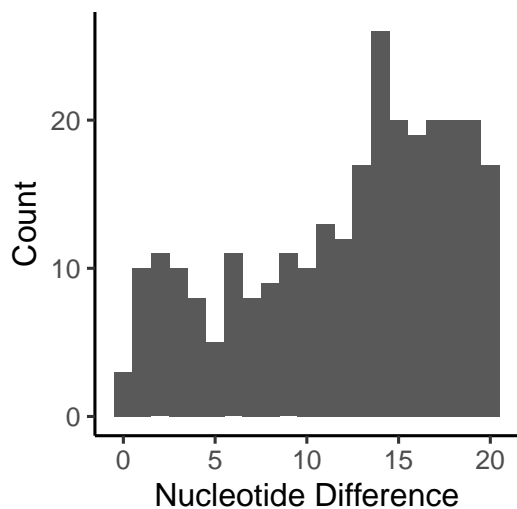
IGHV3-30*04

358 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



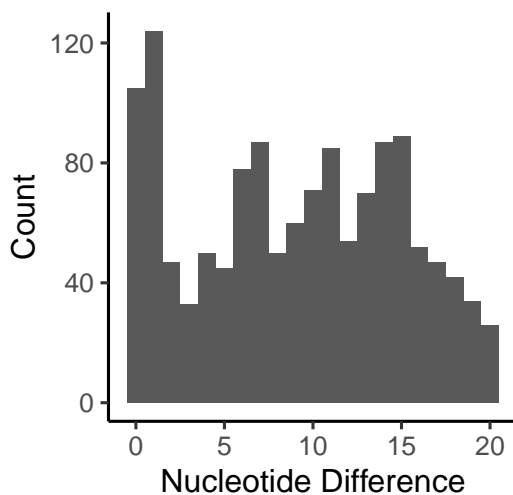
IGHV3-21*04

380 sequences assigned
3 (0.8%) exact matches, in which:
3 unique CDR3
1 unique J



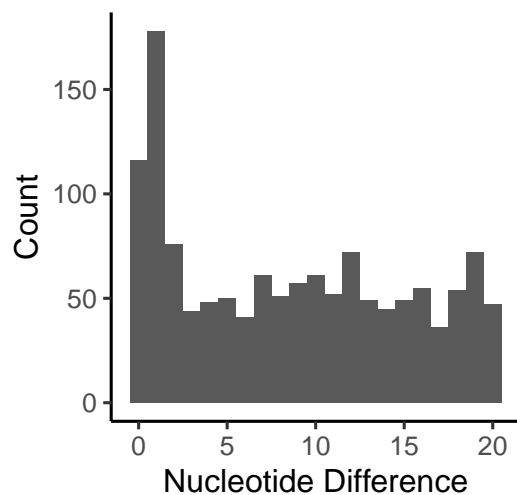
IGHV3-30-3*01

1632 sequences assigned
105 (6.4%) exact matches, in which:
87 unique CDR3
4 unique J



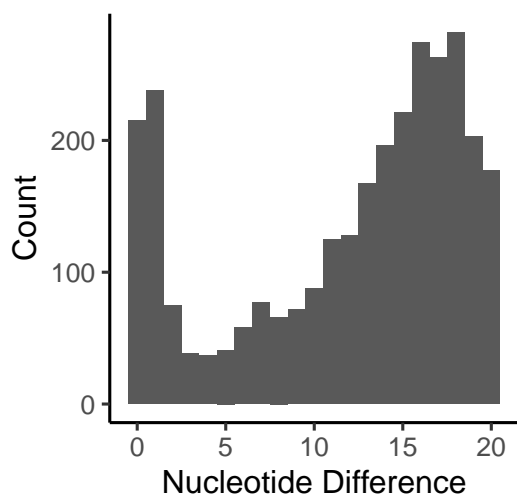
IGHV3-30*18

1638 sequences assigned
116 (7.1%) exact matches, in which:
98 unique CDR3
6 unique J



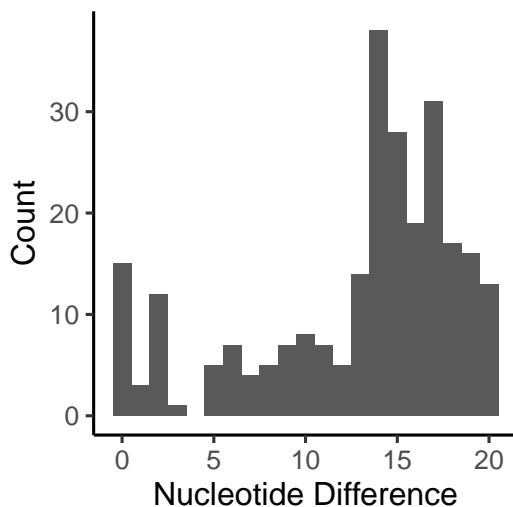
IGHV3-21*01_02

3751 sequences assigned
215 (5.7%) exact matches, in which:
178 unique CDR3
6 unique J



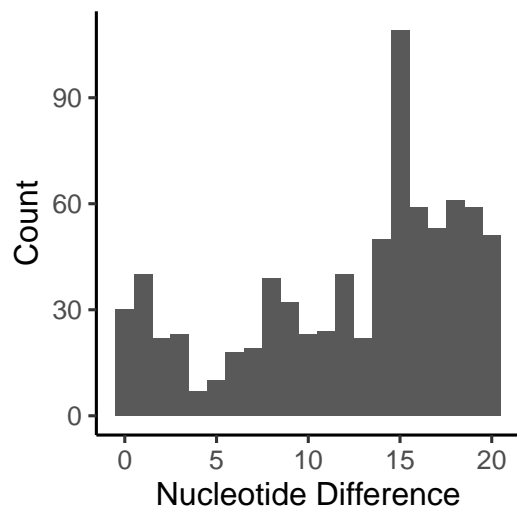
IGHV3-30*03

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



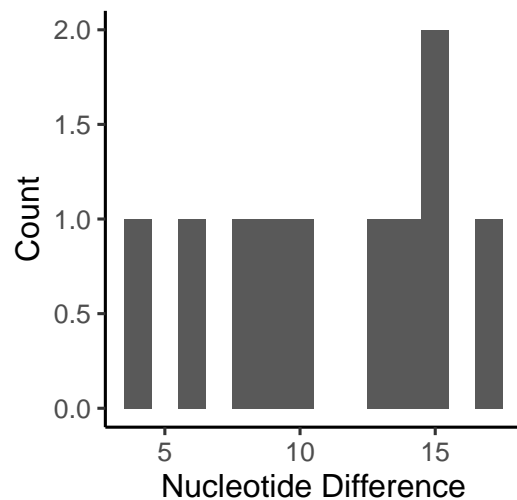
IGHV3-33*01

1255 sequences assigned
30 (2.4%) exact matches, in which:
29 unique CDR3
4 unique J



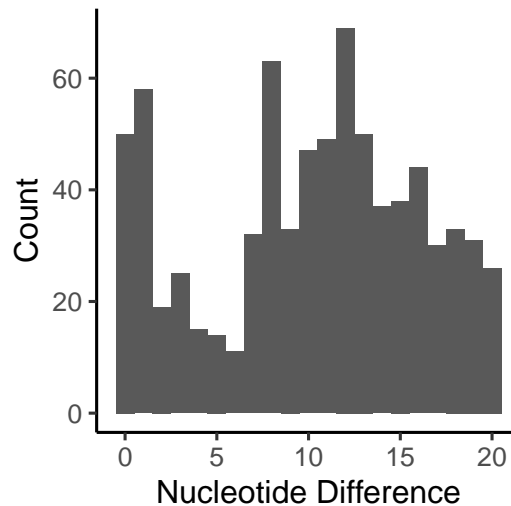
IGHV3-33*05

23 sequences assigned
No exact matches.



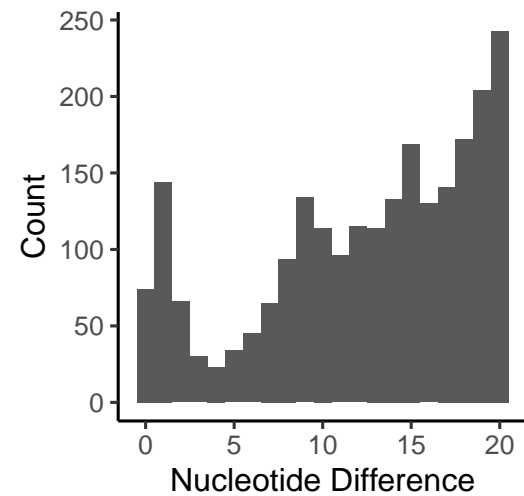
IGHV3-48*04

1025 sequences assigned
50 (4.9%) exact matches, in which:
34 unique CDR3
5 unique J



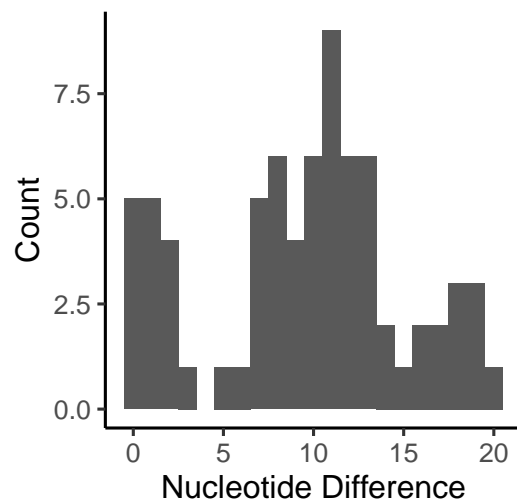
IGHV3-53*01_02

6755 sequences assigned
74 (1.1%) exact matches, in which:
59 unique CDR3
5 unique J



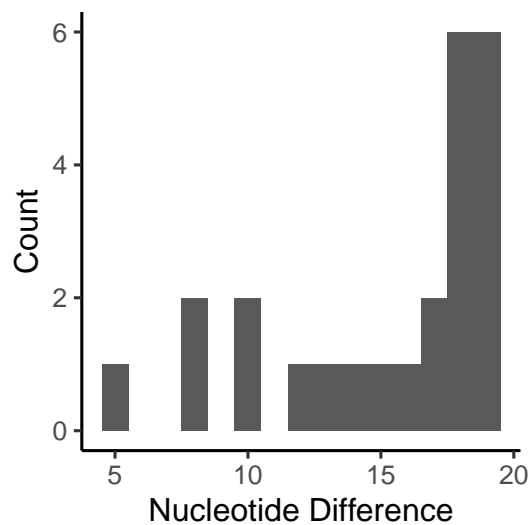
IGHV3-43*01

92 sequences assigned
5 (5.4%) exact matches, in which:
4 unique CDR3
1 unique J



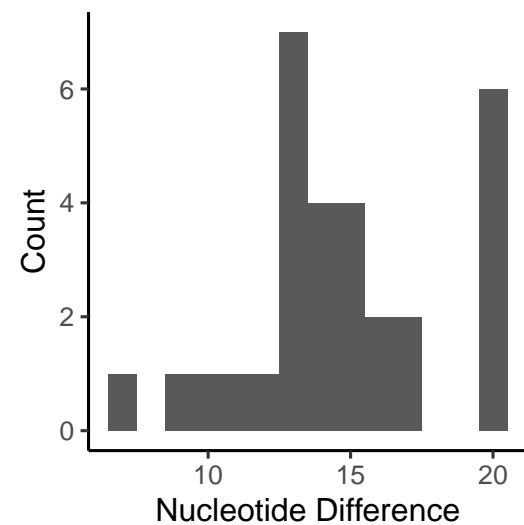
IGHV3-49*04

89 sequences assigned
No exact matches.



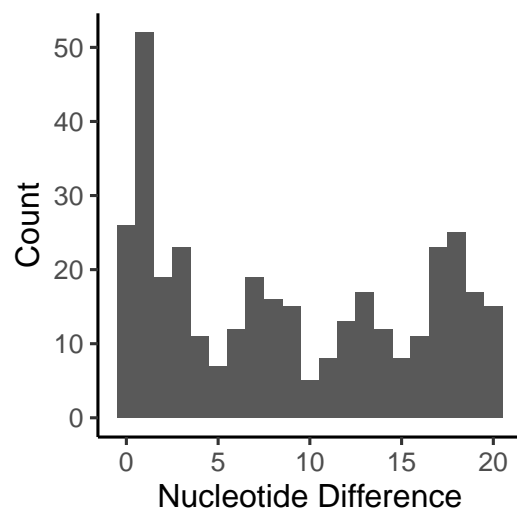
IGHV3-64*04

37 sequences assigned
No exact matches.



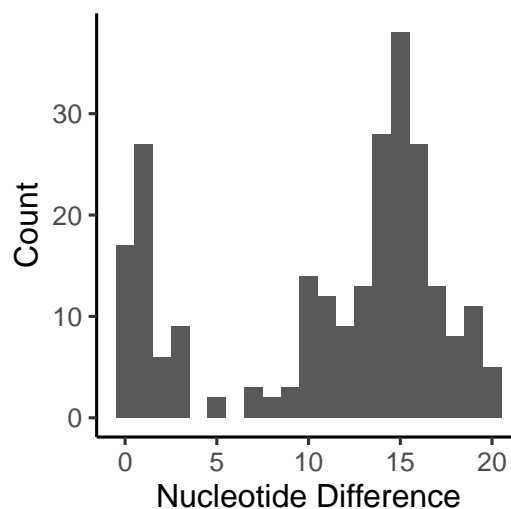
IGHV3-48*02

760 sequences assigned
26 (3.4%) exact matches, in which:
18 unique CDR3
3 unique J



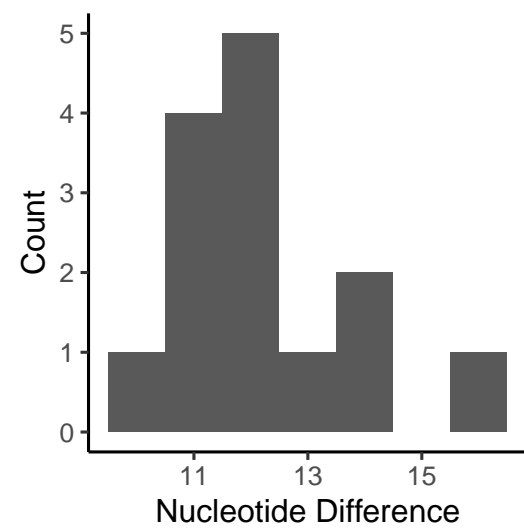
IGHV3-49*03_05

332 sequences assigned
17 (5.1%) exact matches, in which:
14 unique CDR3
3 unique J



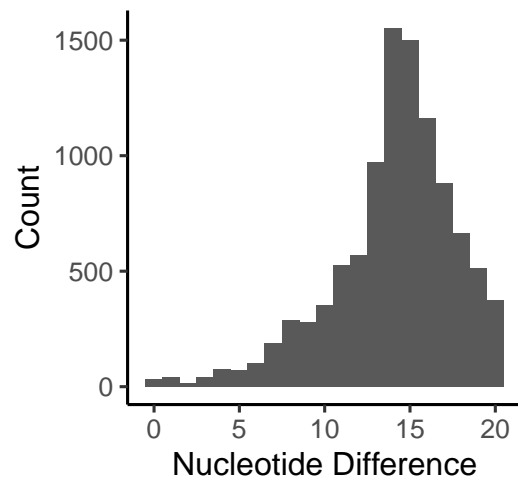
IGHV3-64*02_07

16 sequences assigned
No exact matches.



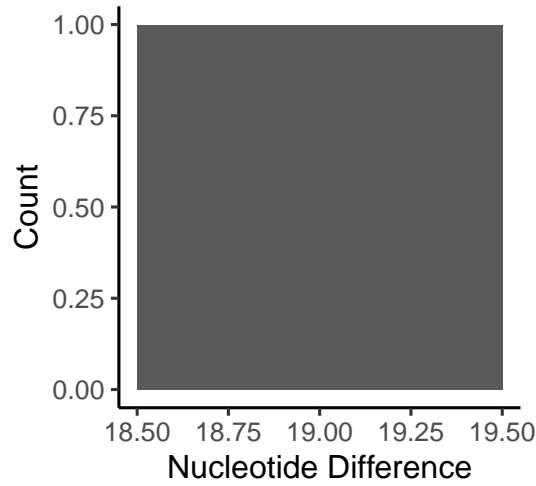
IGHV3-66*01

11404 sequences assigned
31 (0.3%) exact matches, in which:
27 unique CDR3
4 unique J



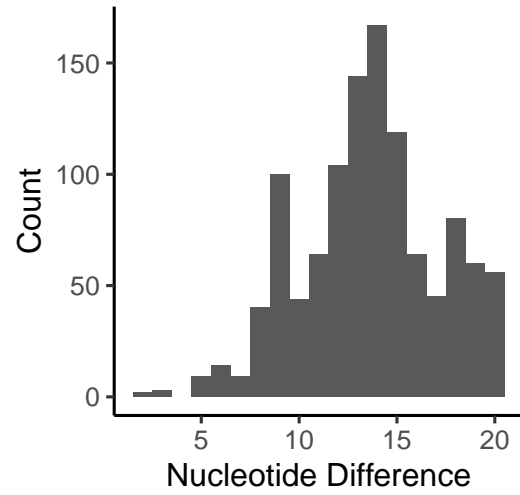
IGHV3-71*01_04

6 sequences assigned
No exact matches.



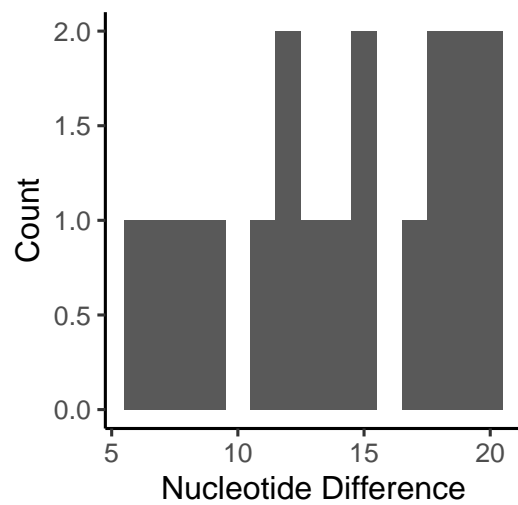
IGHV3-74*03

1379 sequences assigned
No exact matches.



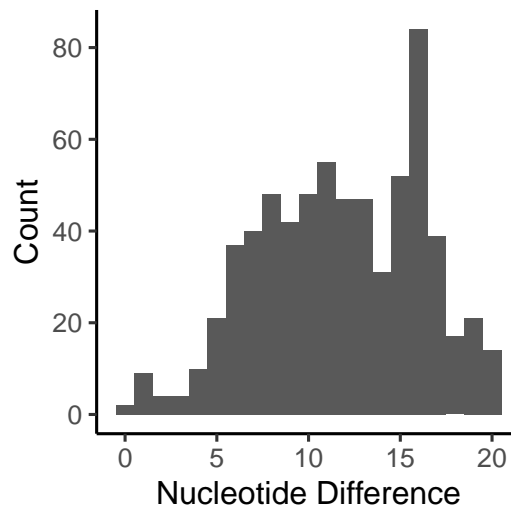
IGHV3-69-1*01

36 sequences assigned
No exact matches.



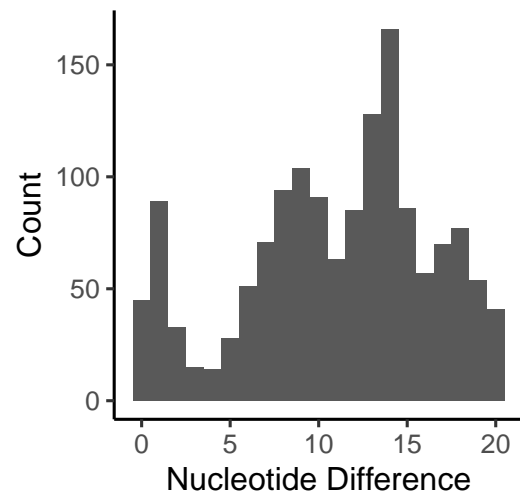
IGHV3-72*01

718 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



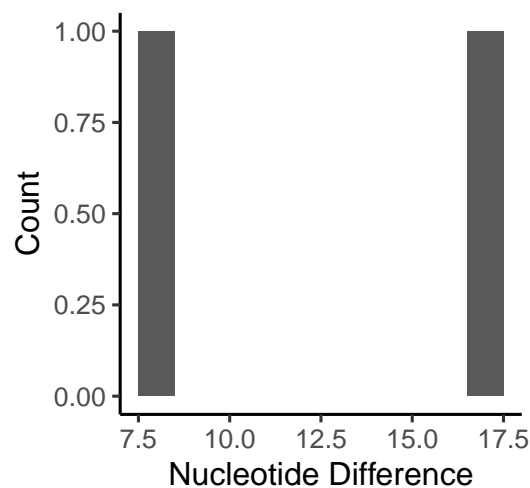
IGHV3-74*01_02

1634 sequences assigned
45 (2.8%) exact matches, in which:
38 unique CDR3
5 unique J



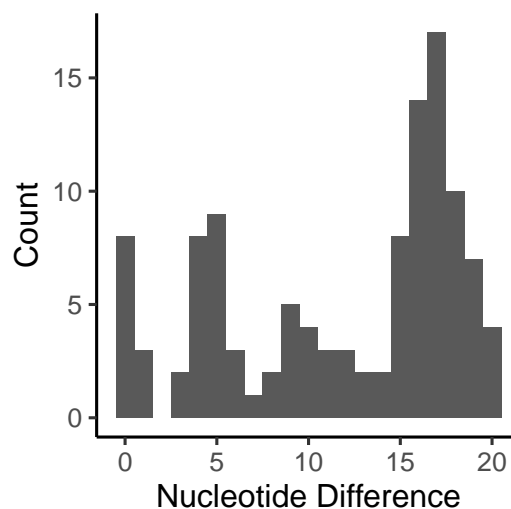
IGHV3-69-1*02

17 sequences assigned
No exact matches.



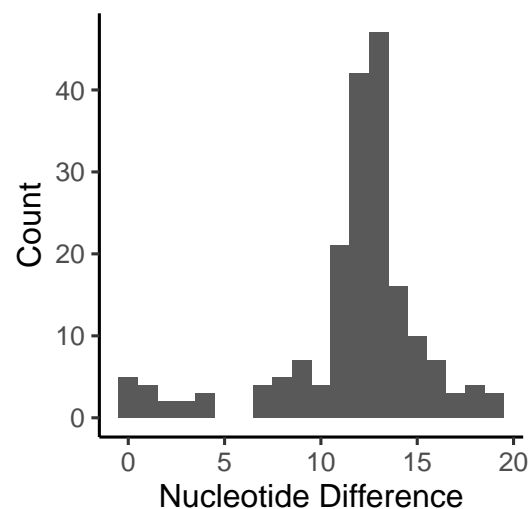
IGHV3-73*01_02

154 sequences assigned
8 (5.2%) exact matches, in which:
8 unique CDR3
2 unique J



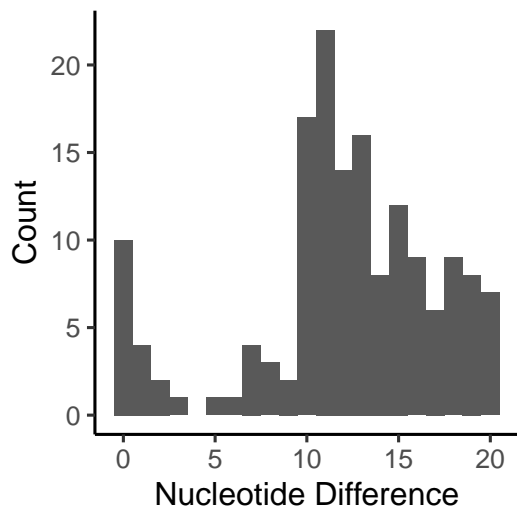
IGHV3-43D*03

210 sequences assigned
5 (2.4%) exact matches, in which:
5 unique CDR3
2 unique J



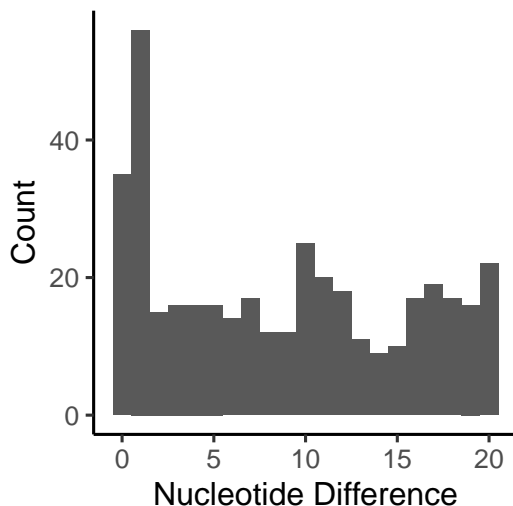
IGHV3-64D*09

216 sequences assigned
10 (4.6%) exact matches, in which:
9 unique CDR3
3 unique J



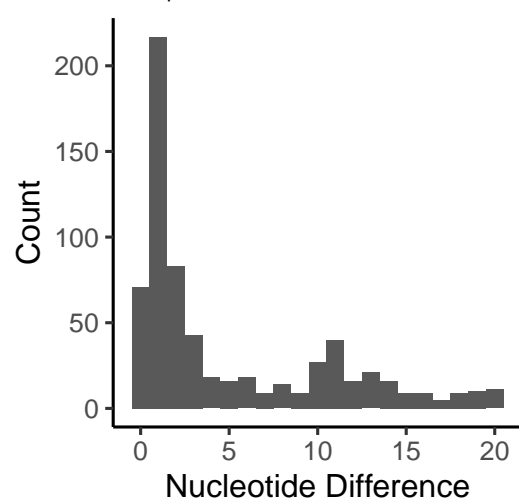
IGHV4-4*02_03

513 sequences assigned
35 (6.8%) exact matches, in which:
25 unique CDR3
5 unique J



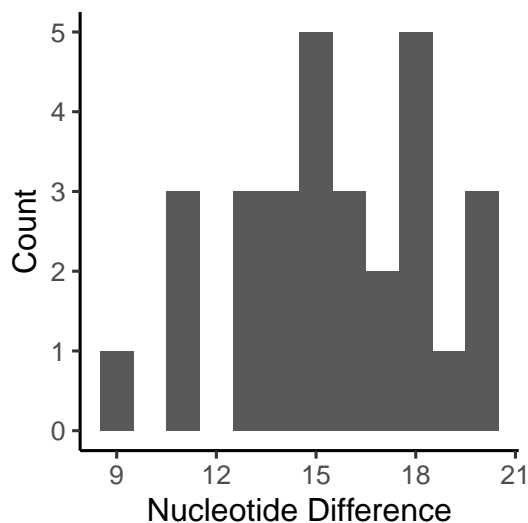
IGHV4-30-2*01

802 sequences assigned
71 (8.9%) exact matches, in which:
51 unique CDR3
6 unique J



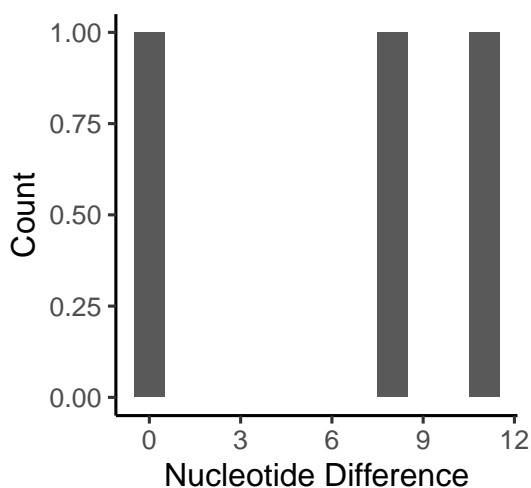
IGHV3-NL1*01

50 sequences assigned
No exact matches.



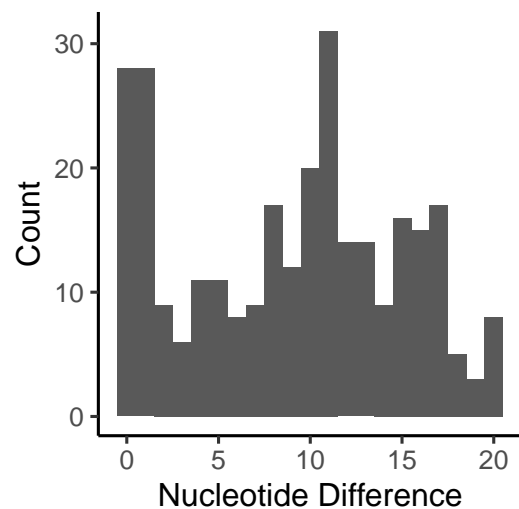
IGHV4-28*03

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



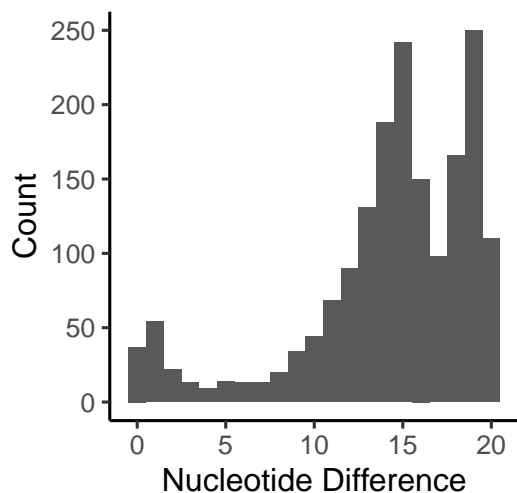
IGHV4-31*02

373 sequences assigned
28 (7.5%) exact matches, in which:
24 unique CDR3
6 unique J



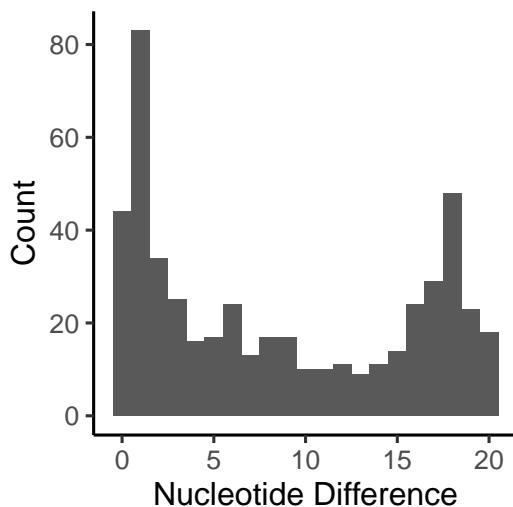
IGHV4-4*07

2053 sequences assigned
37 (1.8%) exact matches, in which:
26 unique CDR3
3 unique J



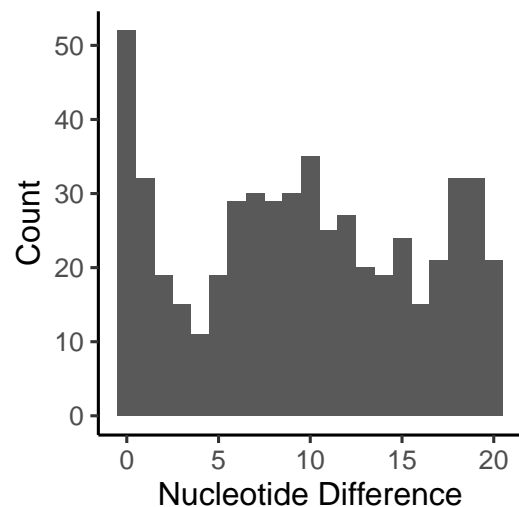
IGHV4-30-4*01

553 sequences assigned
44 (8%) exact matches, in which:
38 unique CDR3
5 unique J



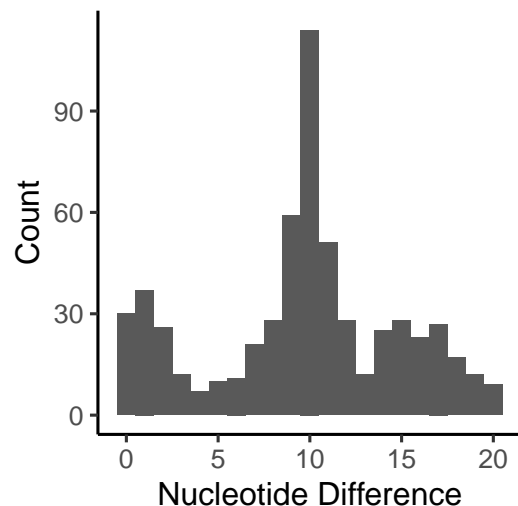
IGHV4-34*01_02

748 sequences assigned
52 (7%) exact matches, in which:
49 unique CDR3
6 unique J



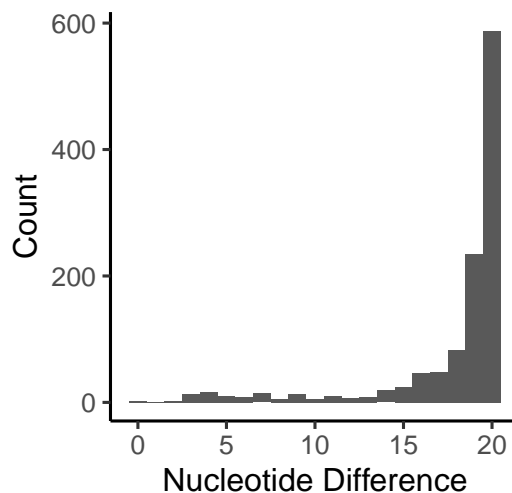
IGHV4-38-2*02

690 sequences assigned
30 (4.3%) exact matches, in which:
26 unique CDR3
6 unique J



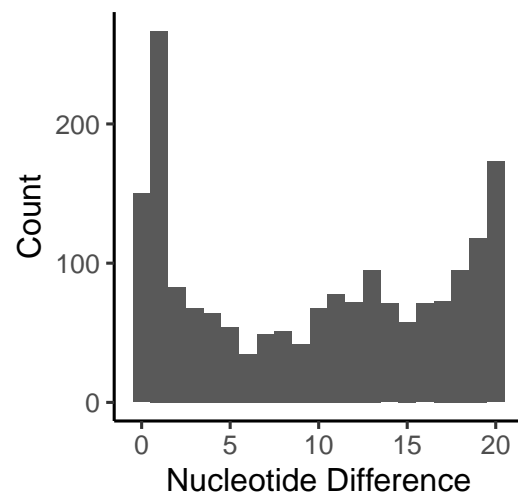
IGHV4-59*02

15563 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



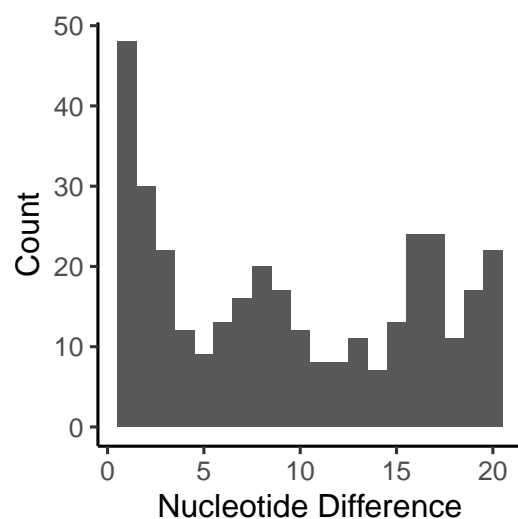
IGHV4-59*01_07

3045 sequences assigned
150 (4.9%) exact matches, in which:
109 unique CDR3
6 unique J



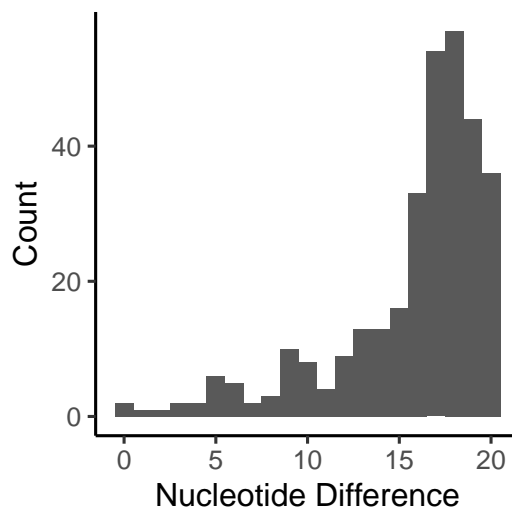
IGHV4-39*02

539 sequences assigned
No exact matches.



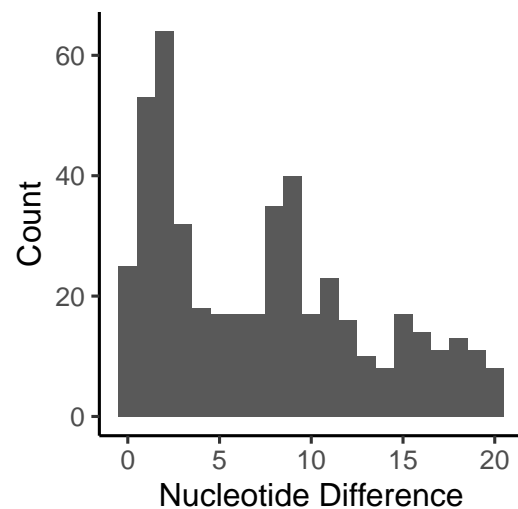
IGHV4-59*11

422 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
2 unique J



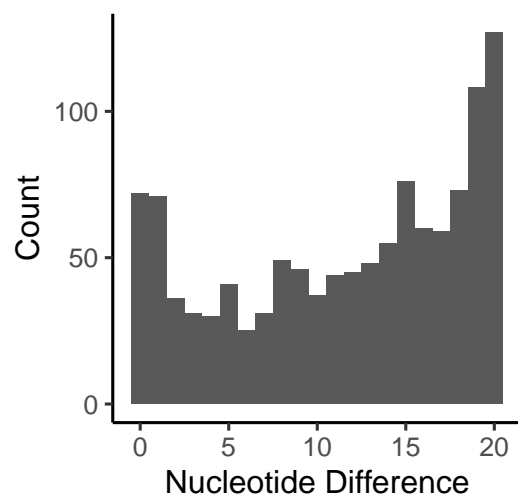
IGHV4-61*01

697 sequences assigned
25 (3.6%) exact matches, in which:
25 unique CDR3
4 unique J



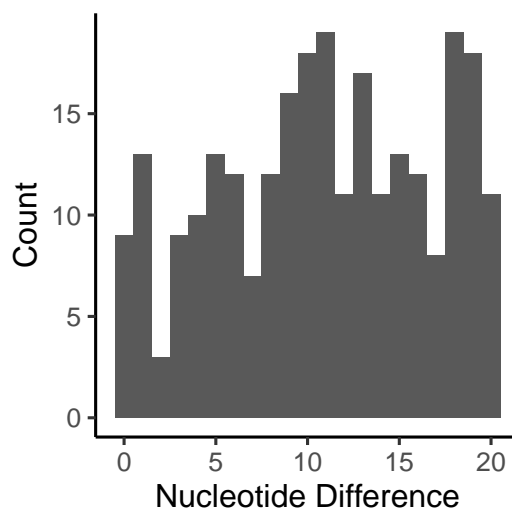
IGHV4-39*07

1832 sequences assigned
72 (3.9%) exact matches, in which:
60 unique CDR3
5 unique J



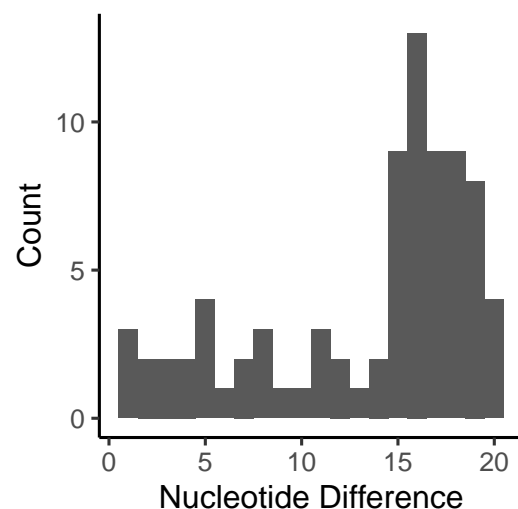
IGHV4-59*12

382 sequences assigned
9 (2.4%) exact matches, in which:
9 unique CDR3
3 unique J



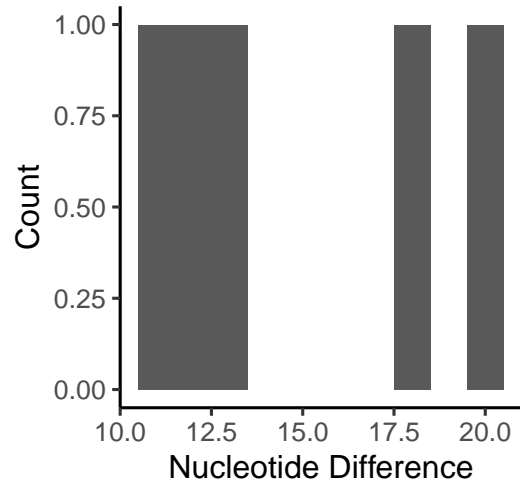
IGHV4-61*08

155 sequences assigned
No exact matches.



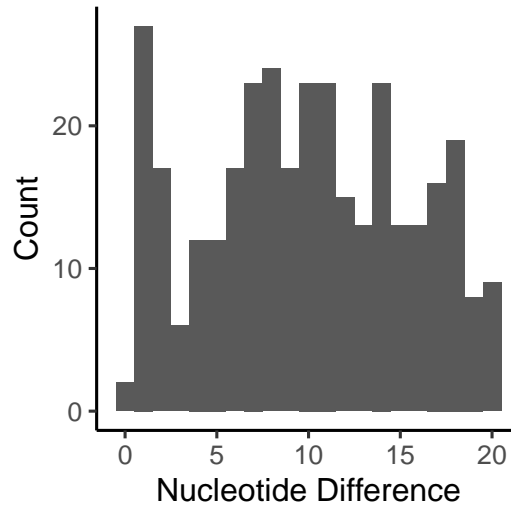
IGHV1/OR15–3*02

11 sequences assigned
No exact matches.



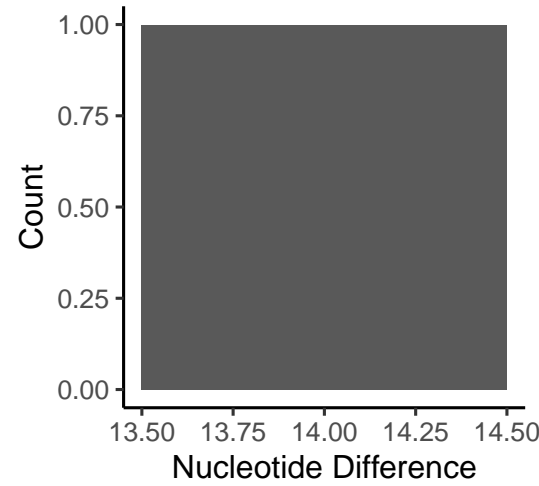
IGHV5–51*07

367 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
2 unique J



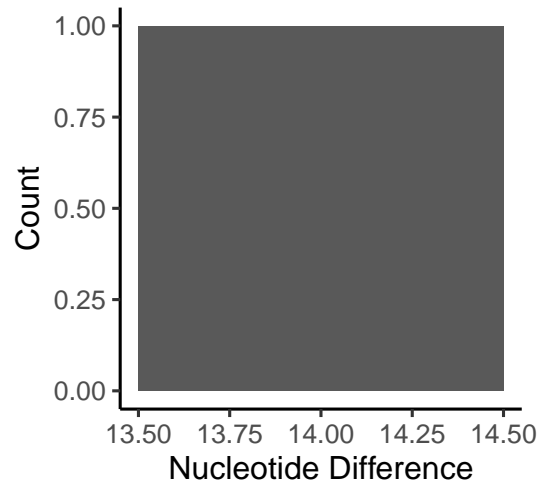
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



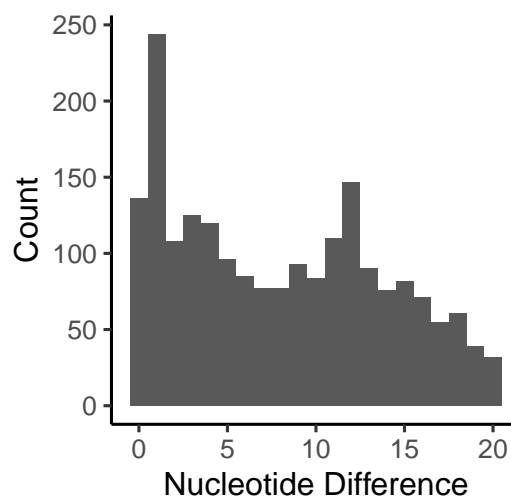
IGHV4/OR15–8*01

6 sequences assigned
No exact matches.



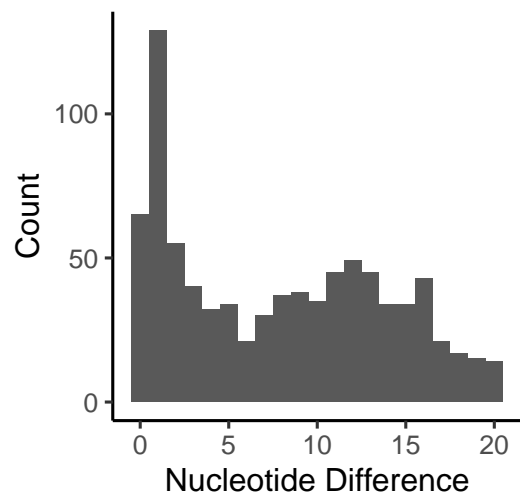
IGHV5–51*01_03

2218 sequences assigned
136 (6.1%) exact matches, in which:
102 unique CDR3
6 unique J



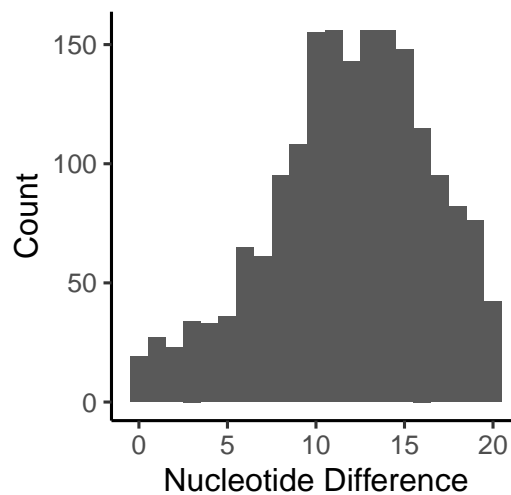
IGHV5–10–1*01_03

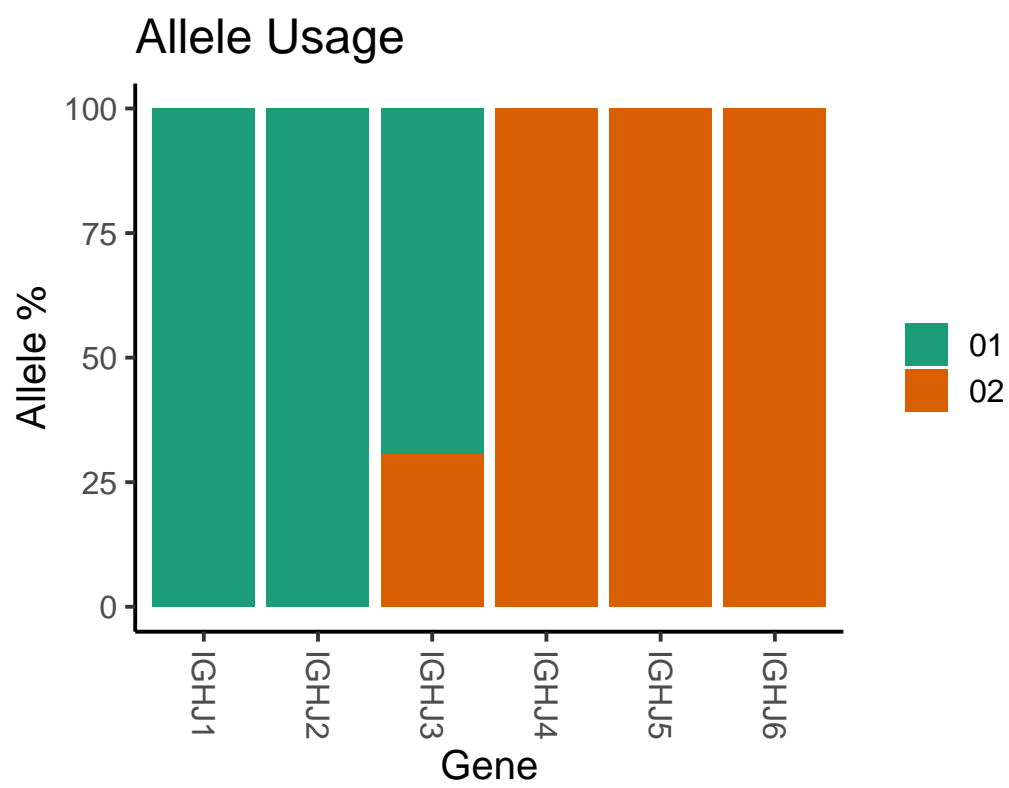
1095 sequences assigned
65 (5.9%) exact matches, in which:
52 unique CDR3
5 unique J



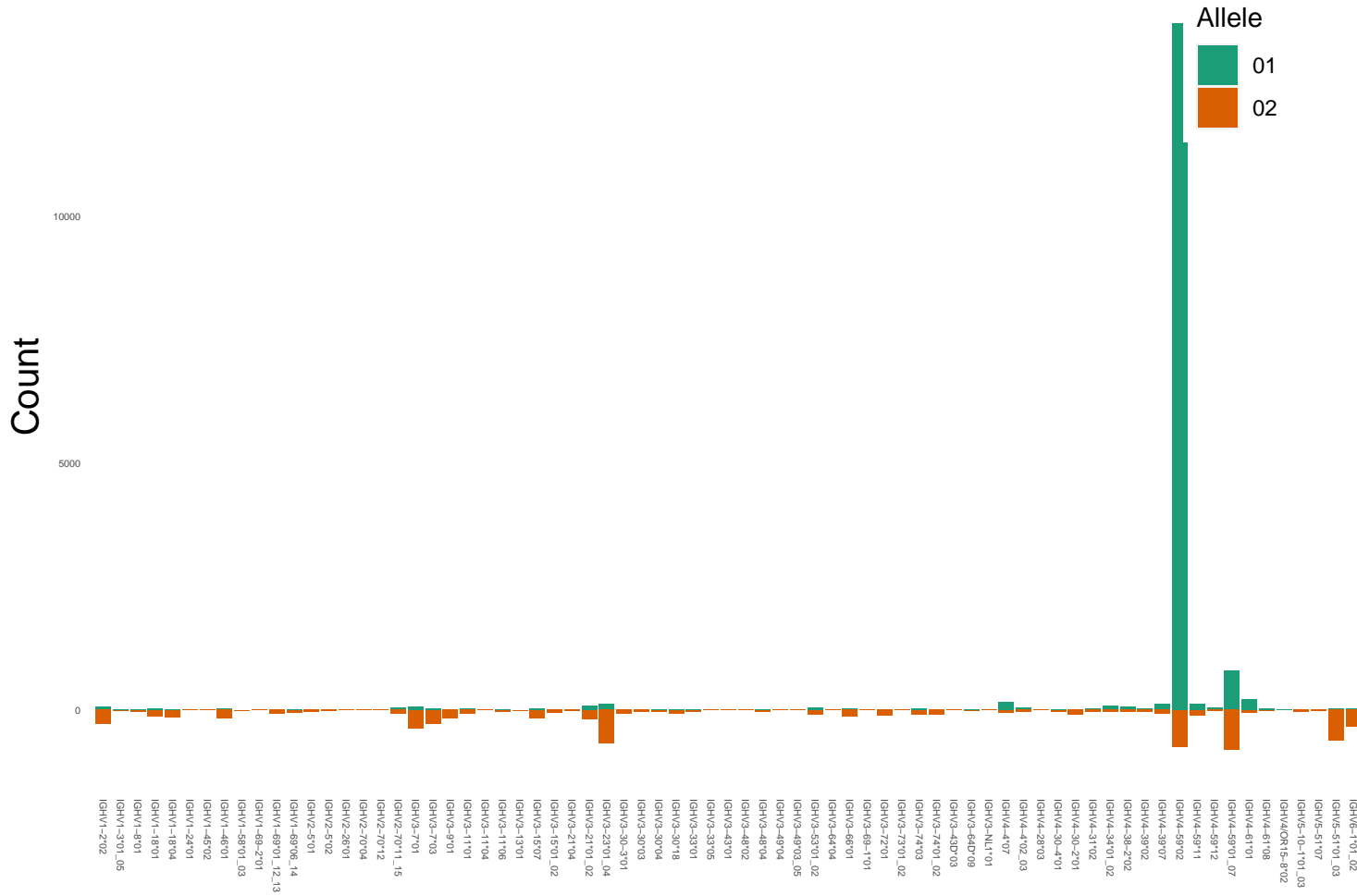
IGHV6–1*01_02

2102 sequences assigned
19 (0.9%) exact matches, in which:
17 unique CDR3
3 unique J





Sequence Count by IGHJ3 allele usage



Warning – no inferred sequences found.