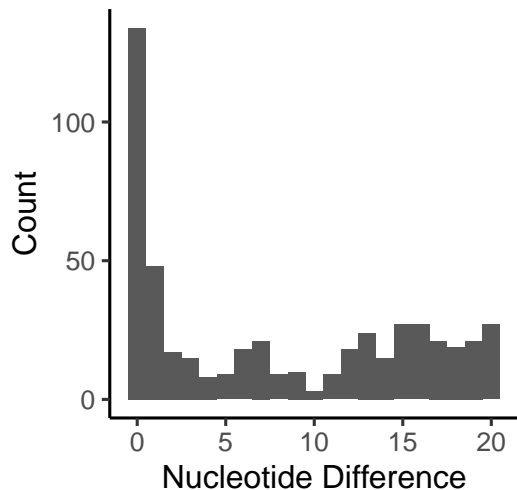


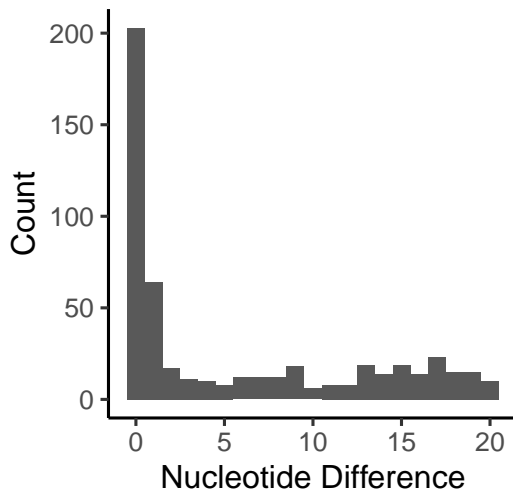
IGHV1-2*02

874 sequences assigned
134 (15.3%) exact matches, in which:
130 unique CDR3
6 unique J



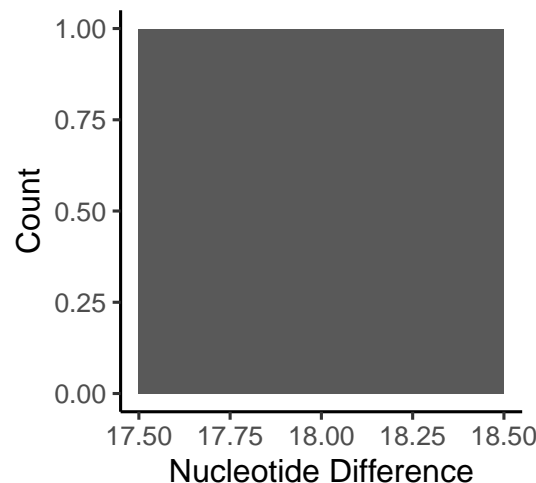
IGHV1-8*01

684 sequences assigned
203 (29.7%) exact matches, in which:
198 unique CDR3
7 unique J



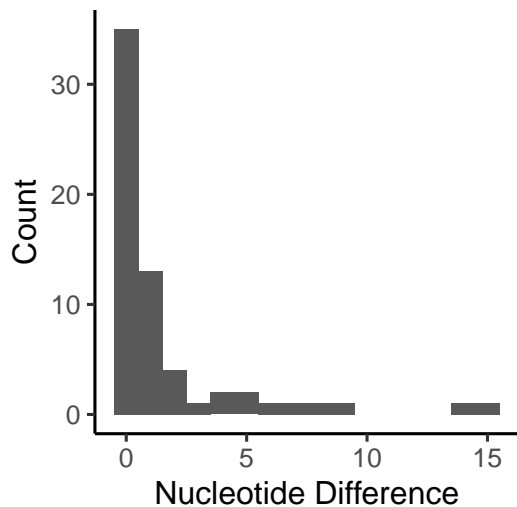
IGHV1-45*01

4 sequences assigned
No exact matches.



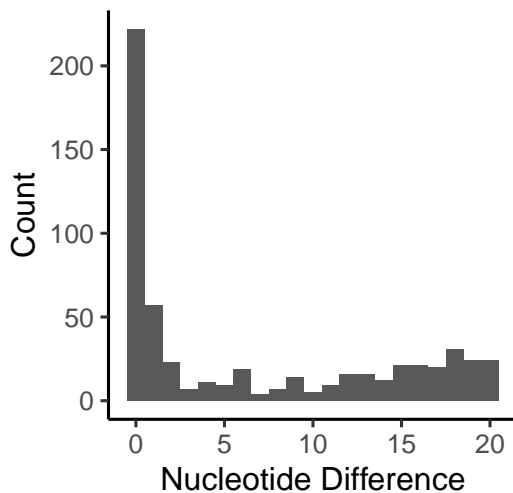
IGHV1-2*04

82 sequences assigned
35 (42.7%) exact matches, in which:
35 unique CDR3
4 unique J



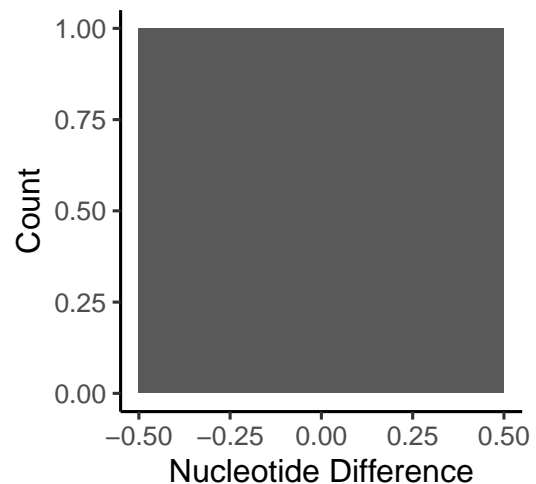
IGHV1-18*01

1012 sequences assigned
222 (21.9%) exact matches, in which:
220 unique CDR3
7 unique J



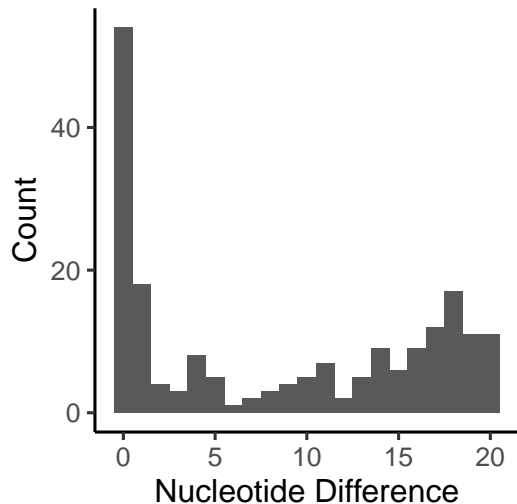
IGHV1-45*02

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



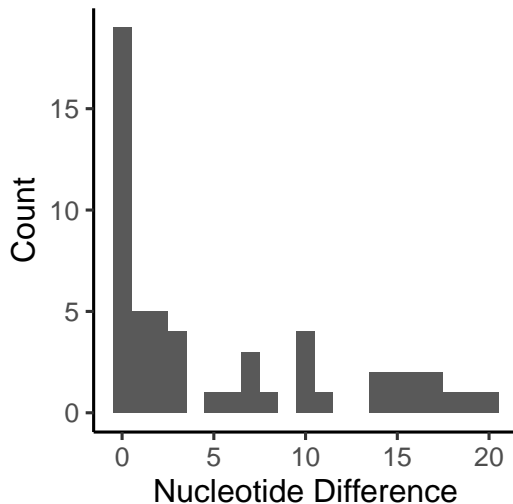
IGHV1-3*01

396 sequences assigned
54 (13.6%) exact matches, in which:
54 unique CDR3
6 unique J



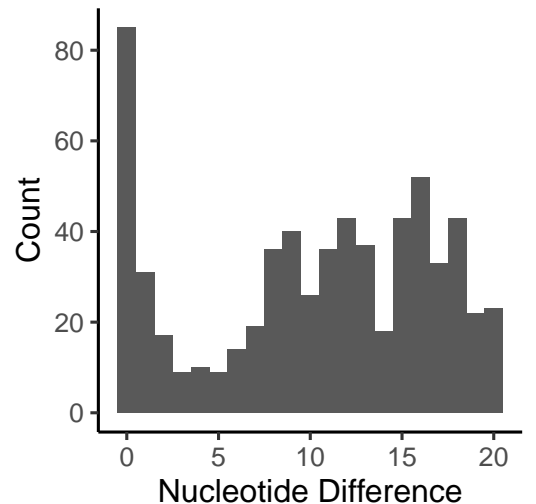
IGHV1-24*01

86 sequences assigned
19 (22.1%) exact matches, in which:
18 unique CDR3
6 unique J



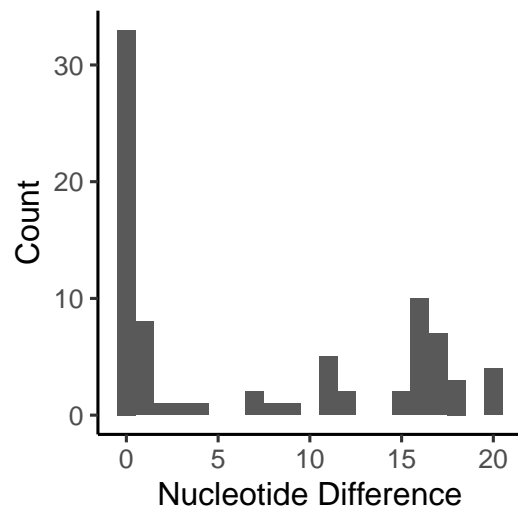
IGHV1-46*01

1111 sequences assigned
85 (7.7%) exact matches, in which:
83 unique CDR3
6 unique J



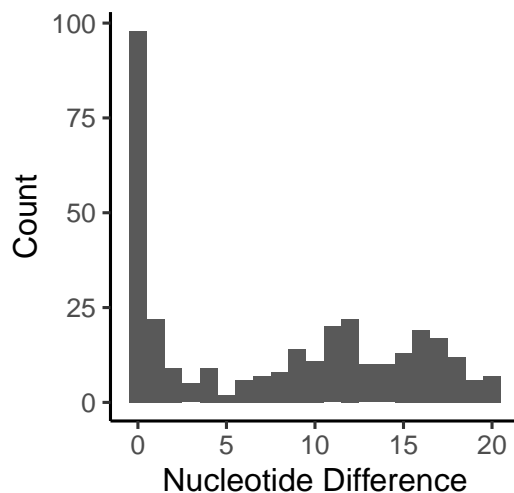
IGHV1-58*01

141 sequences assigned
33 (23.4%) exact matches, in which:
33 unique CDR3
7 unique J



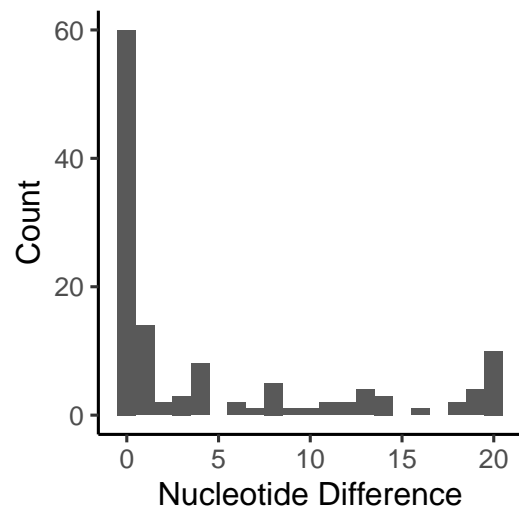
IGHV2-5*01

418 sequences assigned
98 (23.4%) exact matches, in which:
95 unique CDR3
6 unique J



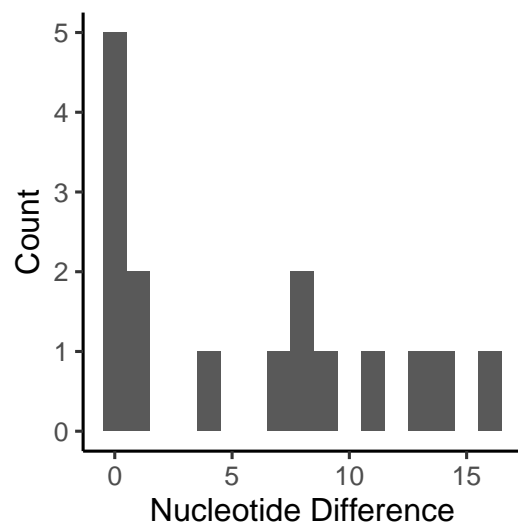
IGHV2-70*01

155 sequences assigned
60 (38.7%) exact matches, in which:
59 unique CDR3
6 unique J



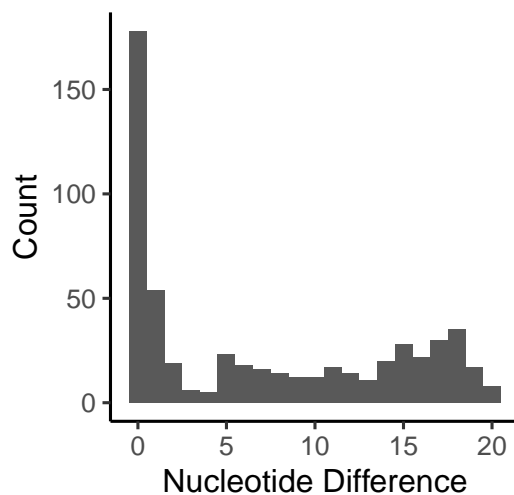
IGHV1-69-2*01

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



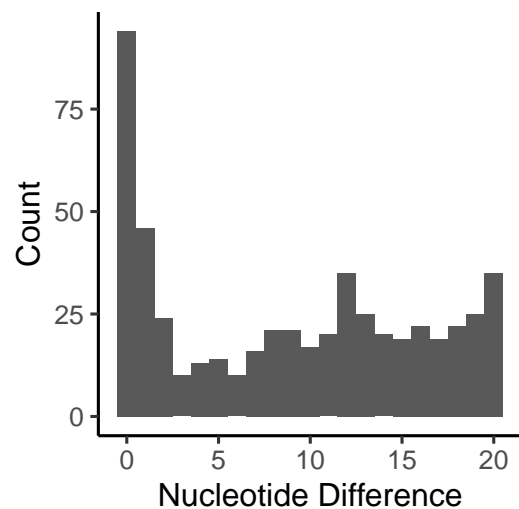
IGHV2-5*02

740 sequences assigned
178 (24.1%) exact matches, in which:
171 unique CDR3
6 unique J



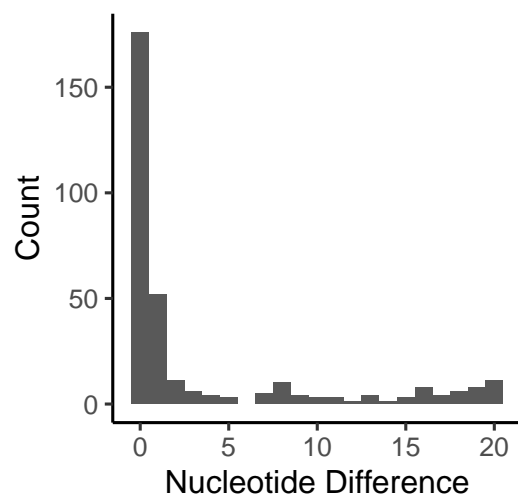
IGHV3-7*01

796 sequences assigned
94 (11.8%) exact matches, in which:
94 unique CDR3
7 unique J



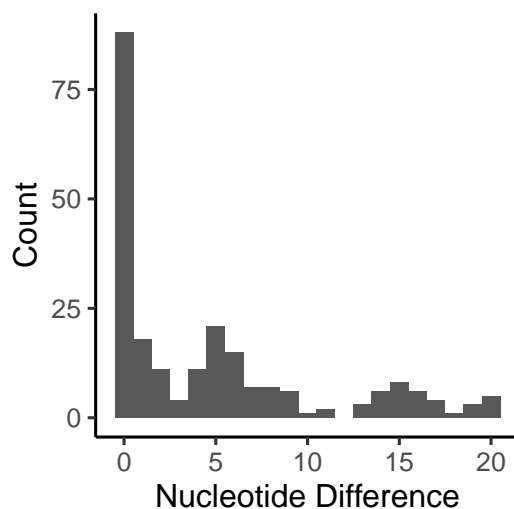
IGHV1-69*06

511 sequences assigned
176 (34.4%) exact matches, in which:
170 unique CDR3
6 unique J



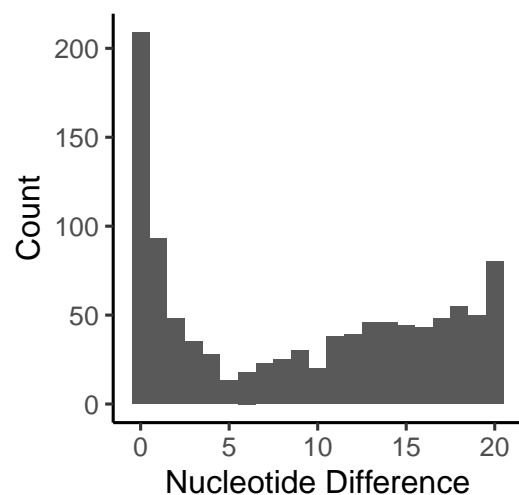
IGHV2-26*01

239 sequences assigned
88 (36.8%) exact matches, in which:
86 unique CDR3
7 unique J



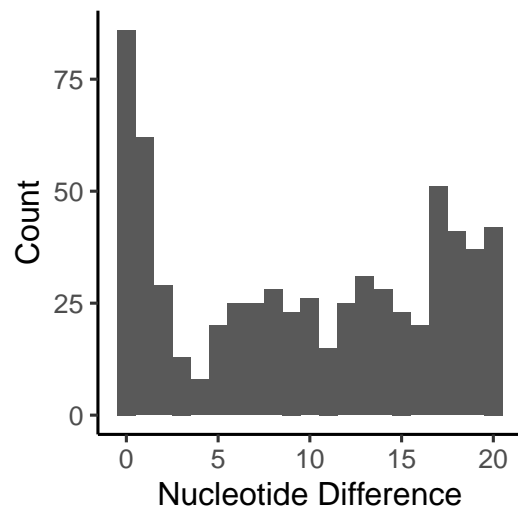
IGHV3-9*01

1820 sequences assigned
209 (11.5%) exact matches, in which:
206 unique CDR3
7 unique J



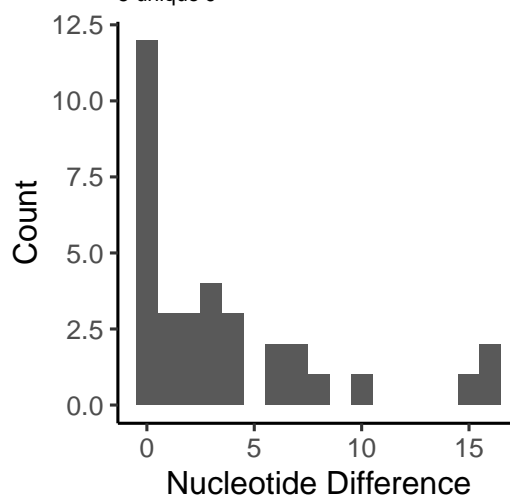
IGHV3-11*01

1150 sequences assigned
86 (7.5%) exact matches, in which:
86 unique CDR3
7 unique J



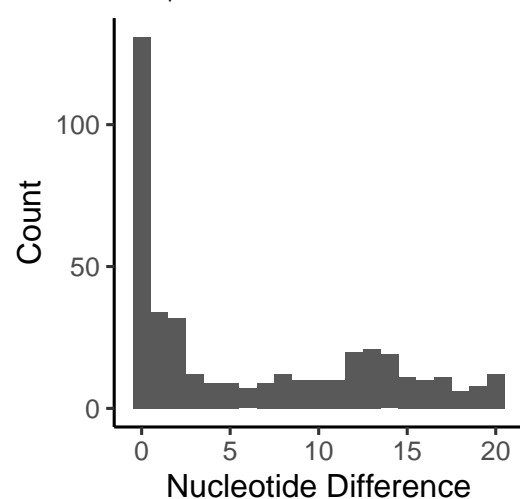
IGHV3-20*01

63 sequences assigned
12 (19%) exact matches, in which:
12 unique CDR3
5 unique J



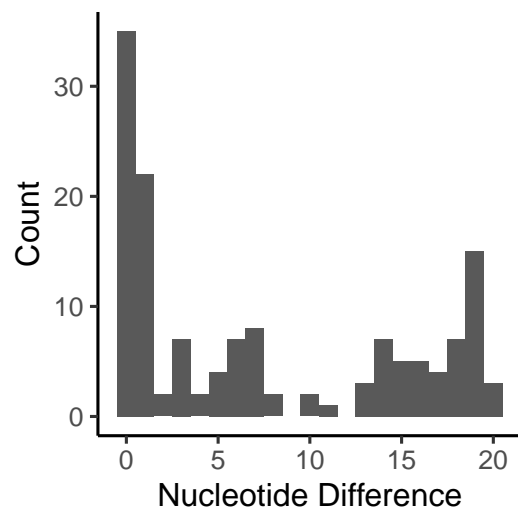
IGHV3-30-3*01

638 sequences assigned
131 (20.5%) exact matches, in which:
129 unique CDR3
7 unique J



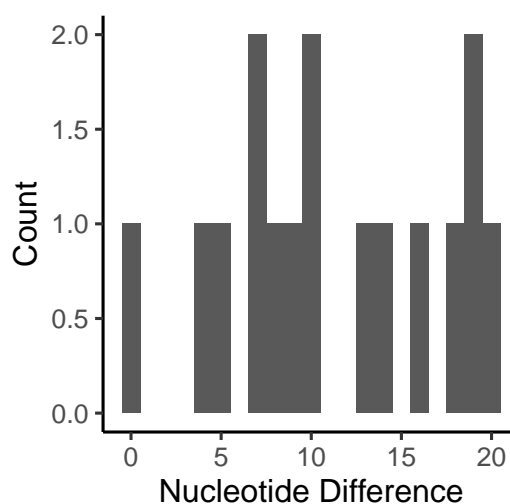
IGHV3-13*01

325 sequences assigned
35 (10.8%) exact matches, in which:
35 unique CDR3
6 unique J



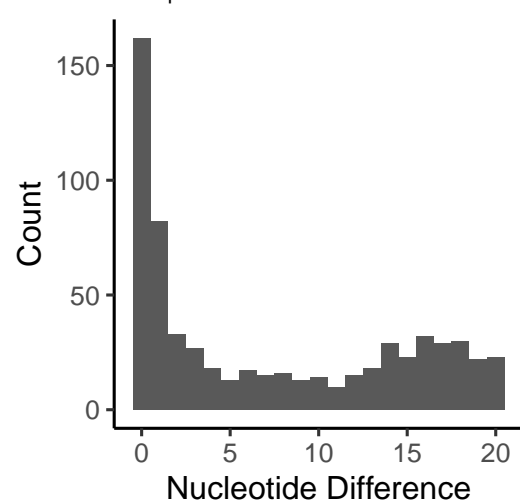
IGHV3-20*04

29 sequences assigned
1 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



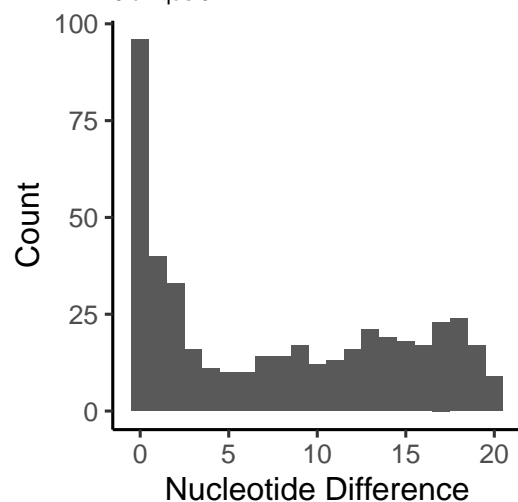
IGHV3-33*01

1139 sequences assigned
162 (14.2%) exact matches, in which:
161 unique CDR3
7 unique J



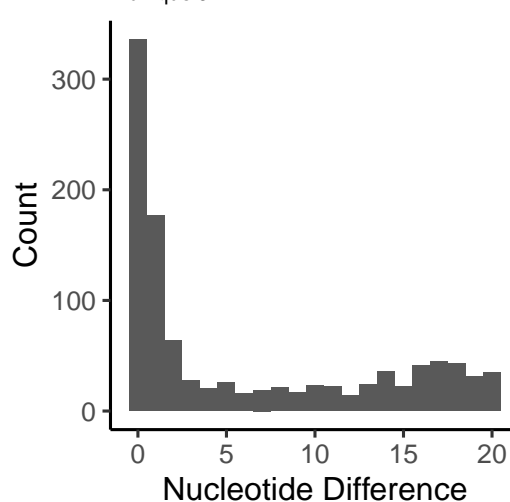
IGHV3-15*01

804 sequences assigned
96 (11.9%) exact matches, in which:
94 unique CDR3
6 unique J



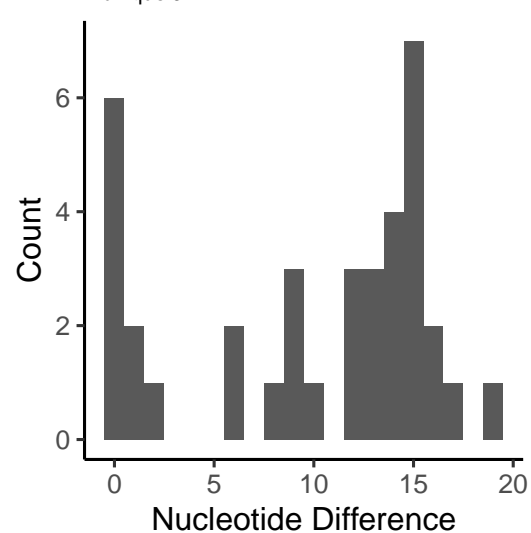
IGHV3-21*01

1567 sequences assigned
336 (21.4%) exact matches, in which:
323 unique CDR3
7 unique J



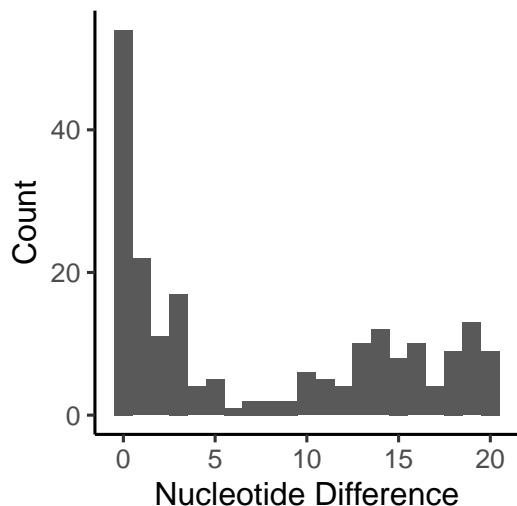
IGHV3-43*01

69 sequences assigned
6 (8.7%) exact matches, in which:
6 unique CDR3
2 unique J



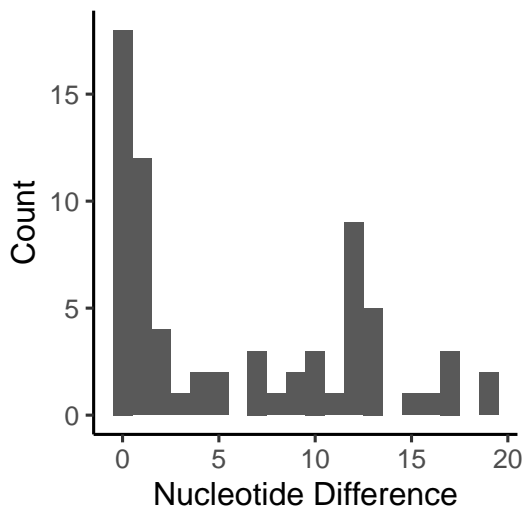
IGHV3-48*02

314 sequences assigned
54 (17.2%) exact matches, in which:
54 unique CDR3
6 unique J



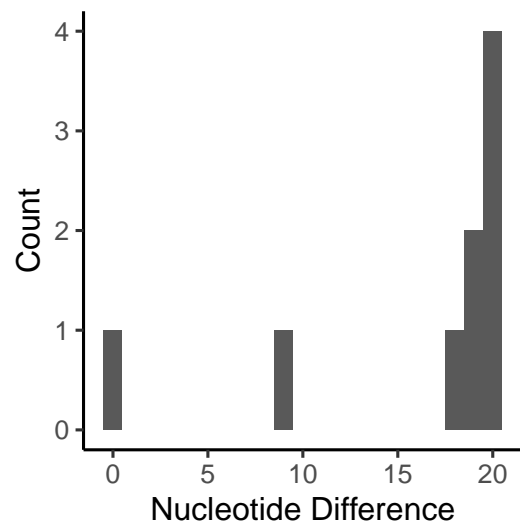
IGHV3-49*05

98 sequences assigned
18 (18.4%) exact matches, in which:
17 unique CDR3
4 unique J



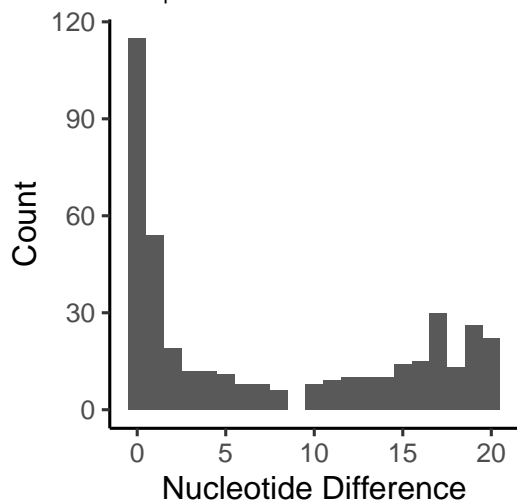
IGHV3-64*02

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



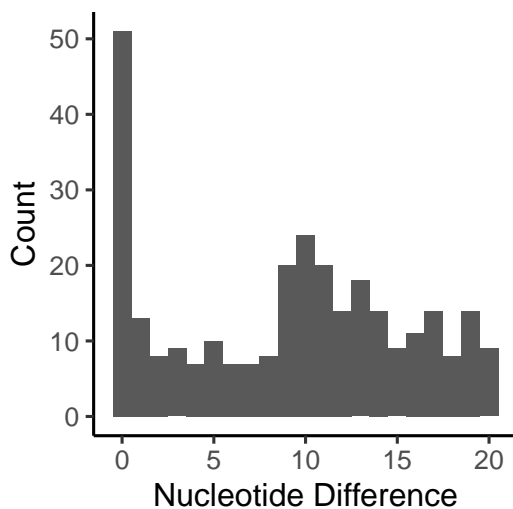
IGHV3-48*03

616 sequences assigned
115 (18.7%) exact matches, in which:
112 unique CDR3
6 unique J



IGHV3-53*01

417 sequences assigned
51 (12.2%) exact matches, in which:
50 unique CDR3
6 unique J



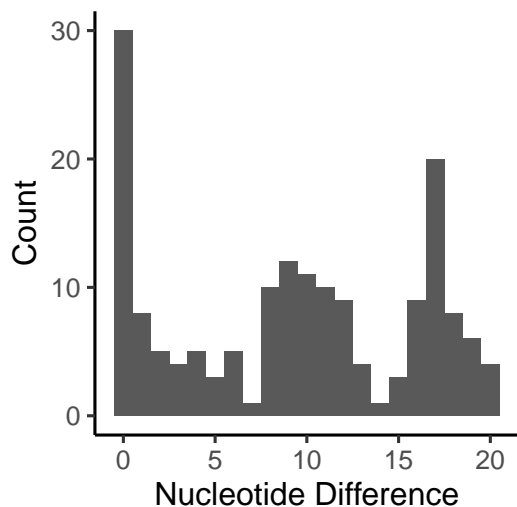
IGHV3-66*01

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



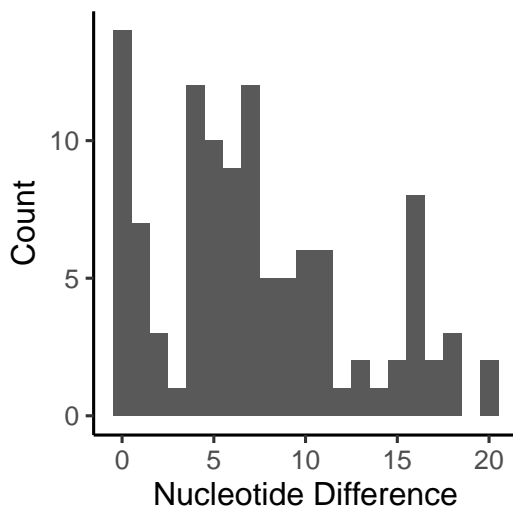
IGHV3-49*04

233 sequences assigned
30 (12.9%) exact matches, in which:
30 unique CDR3
3 unique J



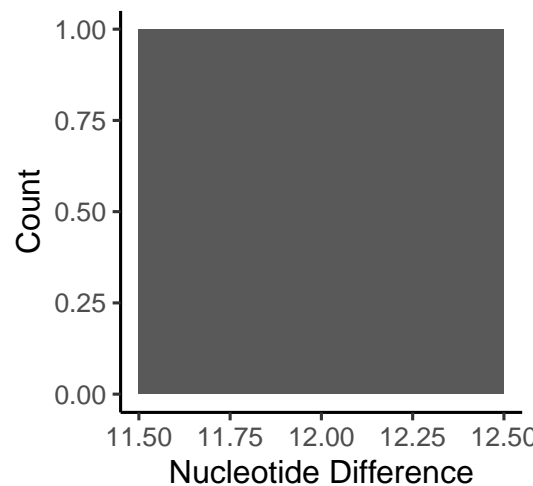
IGHV3-53*02

152 sequences assigned
14 (9.2%) exact matches, in which:
13 unique CDR3
4 unique J



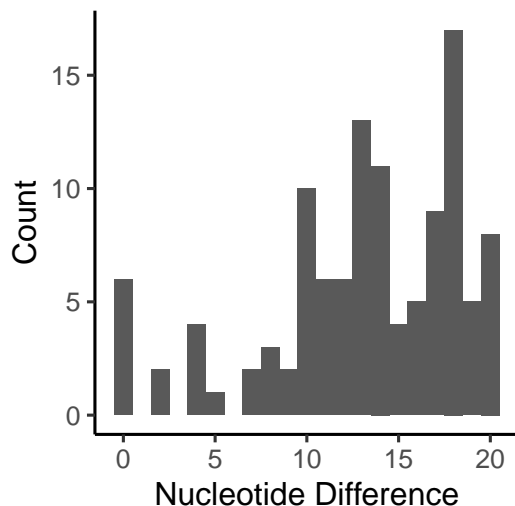
IGHV3-71*01

1 sequences assigned
No exact matches.



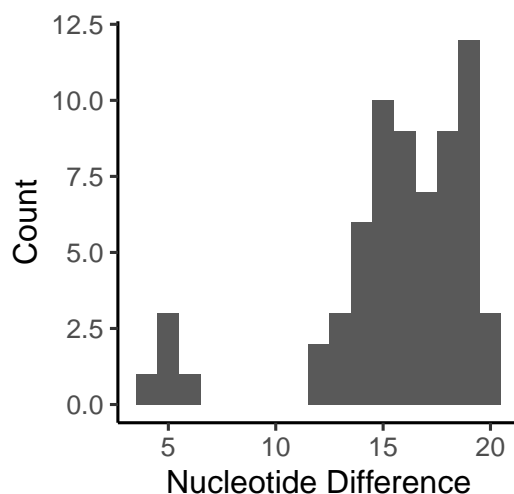
IGHV3-72*01

206 sequences assigned
6 (2.9%) exact matches, in which:
6 unique CDR3
2 unique J



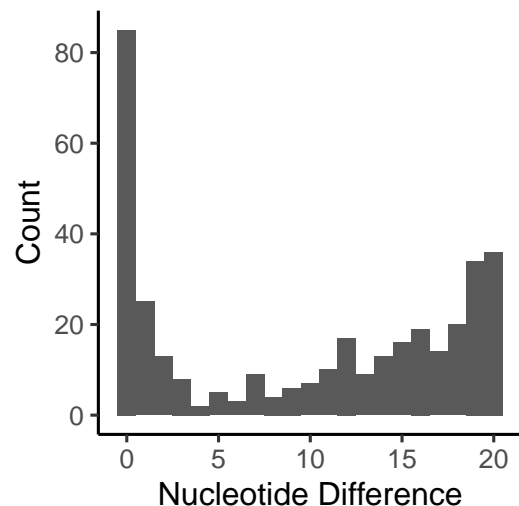
IGHV3-74*03

115 sequences assigned
No exact matches.



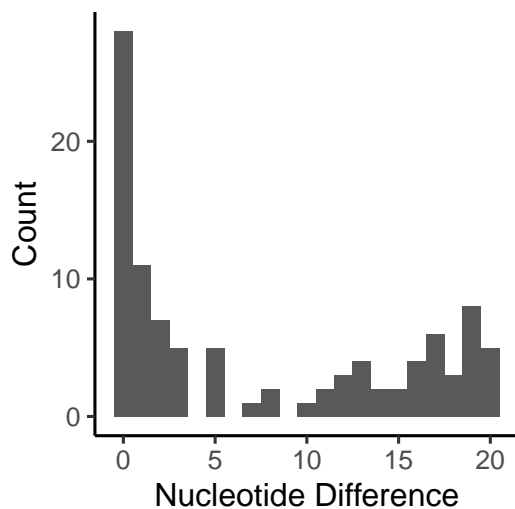
IGHV4-4*02

661 sequences assigned
85 (12.9%) exact matches, in which:
84 unique CDR3
6 unique J



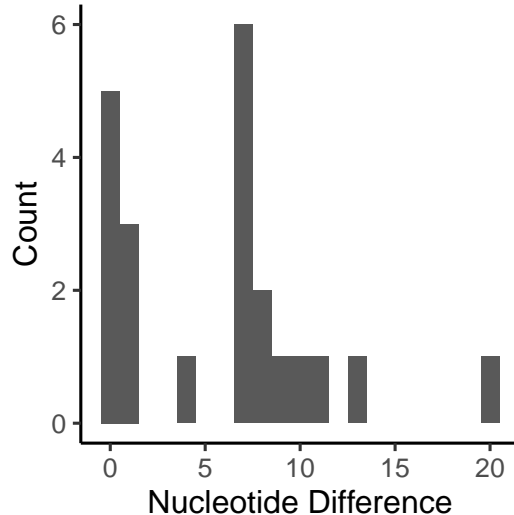
IGHV3-73*02

191 sequences assigned
28 (14.7%) exact matches, in which:
28 unique CDR3
5 unique J



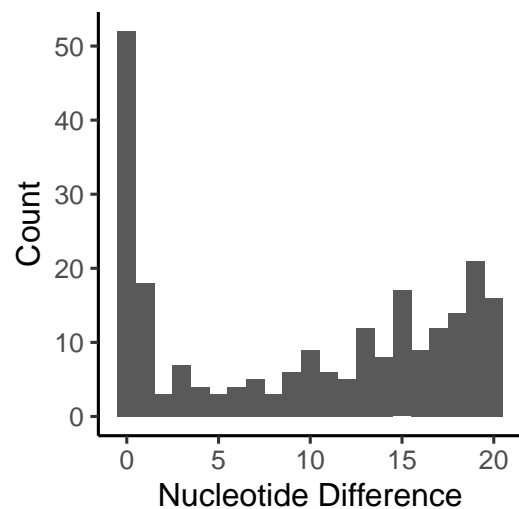
IGHV3-43D*04

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



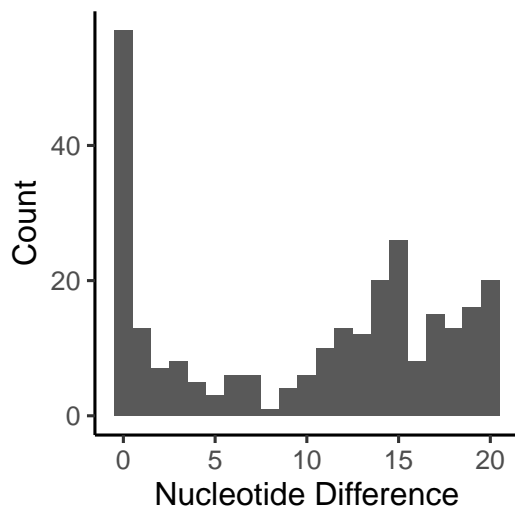
IGHV4-4*07

706 sequences assigned
52 (7.4%) exact matches, in which:
50 unique CDR3
6 unique J



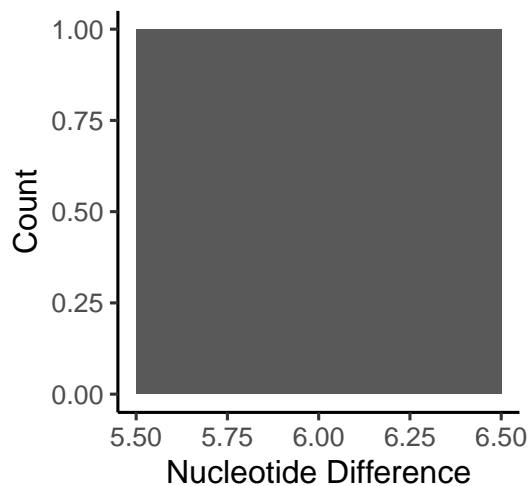
IGHV3-74*01

601 sequences assigned
57 (9.5%) exact matches, in which:
55 unique CDR3
7 unique J



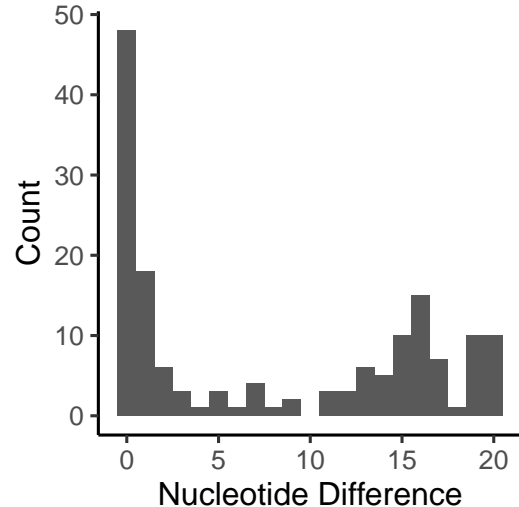
IGHV3-64D*08

1 sequences assigned
No exact matches.



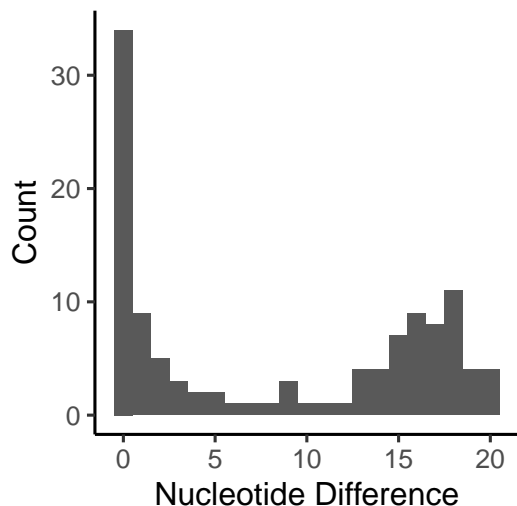
IGHV4-30-4*01

273 sequences assigned
48 (17.6%) exact matches, in which:
48 unique CDR3
6 unique J



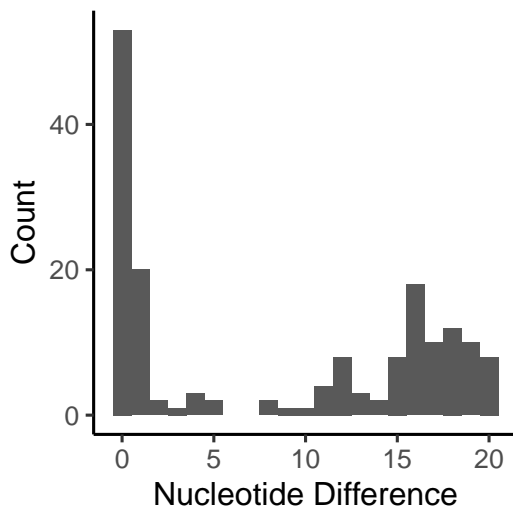
IGHV4-30-2*01

244 sequences assigned
34 (13.9%) exact matches, in which:
34 unique CDR3
6 unique J



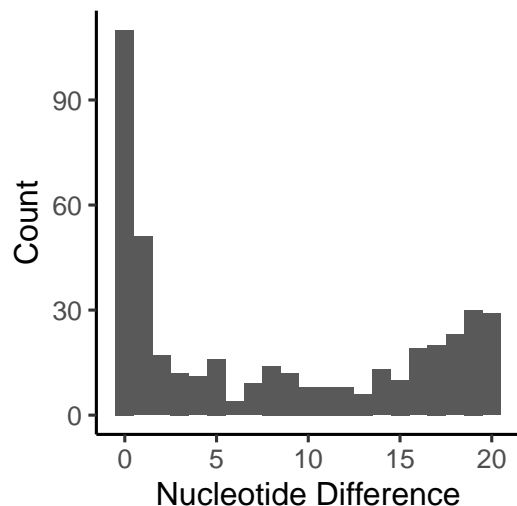
IGHV4-38-2*01

441 sequences assigned
53 (12%) exact matches, in which:
53 unique CDR3
5 unique J



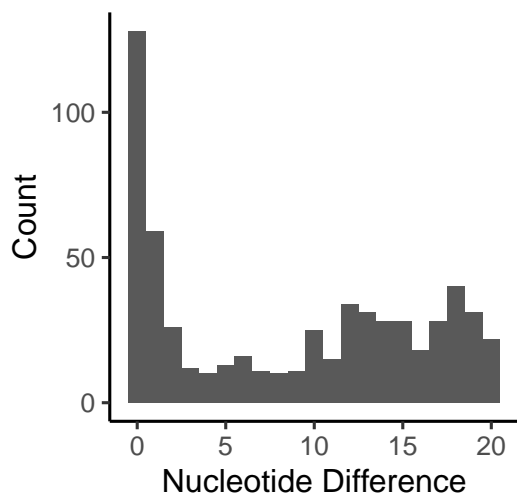
IGHV4-59*01

763 sequences assigned
110 (14.4%) exact matches, in which:
109 unique CDR3
7 unique J



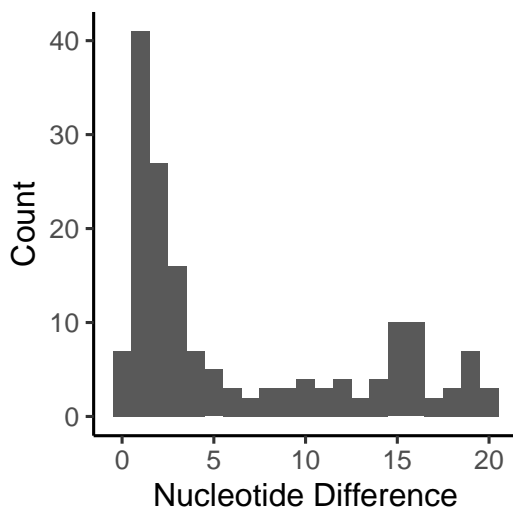
IGHV4-31*03

984 sequences assigned
128 (13%) exact matches, in which:
126 unique CDR3
7 unique J



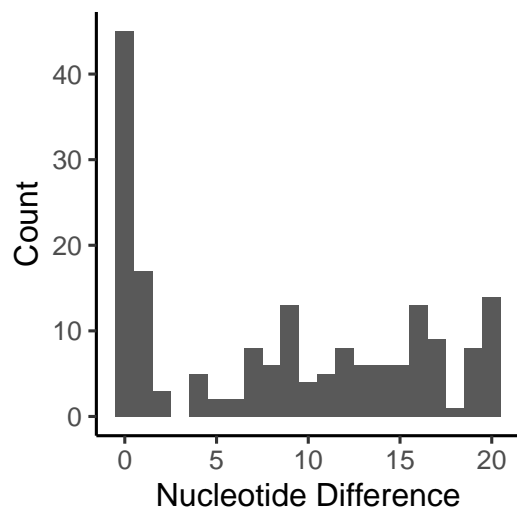
IGHV4-38-2*02

285 sequences assigned
7 (2.5%) exact matches, in which:
7 unique CDR3
4 unique J



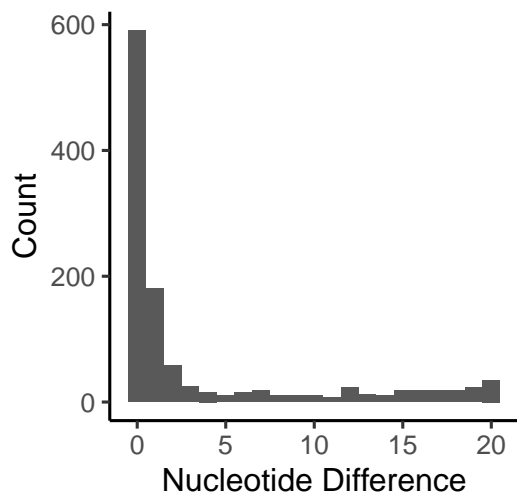
IGHV4-61*01

375 sequences assigned
45 (12%) exact matches, in which:
45 unique CDR3
7 unique J



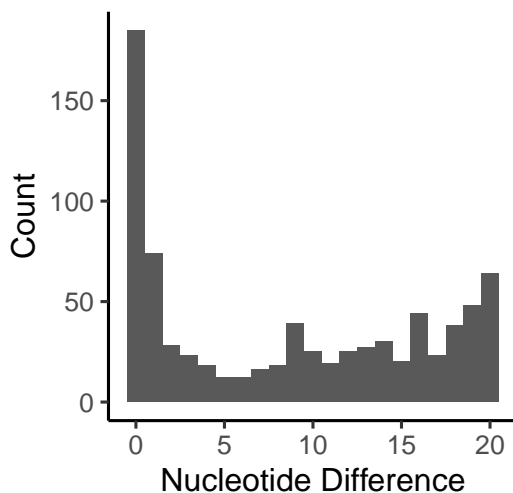
IGHV4-34*01

1496 sequences assigned
591 (39.5%) exact matches, in which:
580 unique CDR3
7 unique J



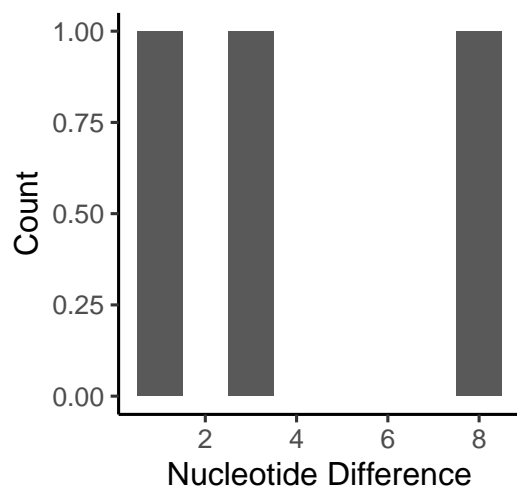
IGHV4-39*01

1674 sequences assigned
185 (11.1%) exact matches, in which:
182 unique CDR3
7 unique J



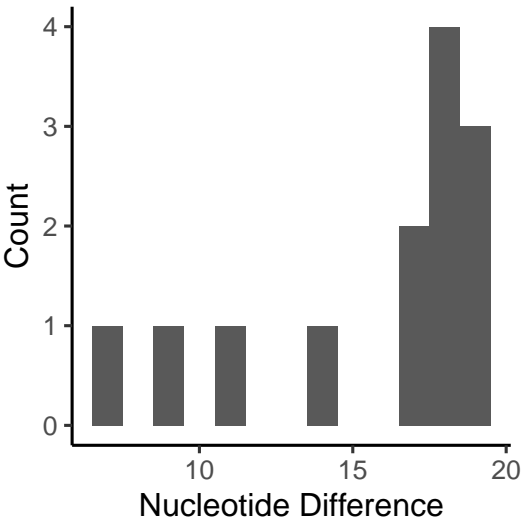
IGHV1/OR15-1*04

3 sequences assigned
No exact matches.



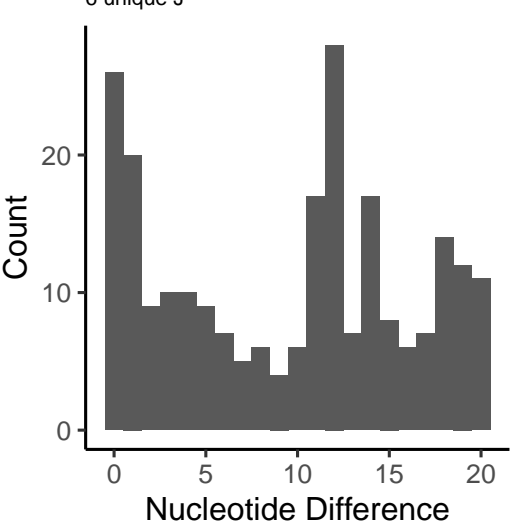
IGHV4/OR15–8*02

24 sequences assigned
No exact matches.



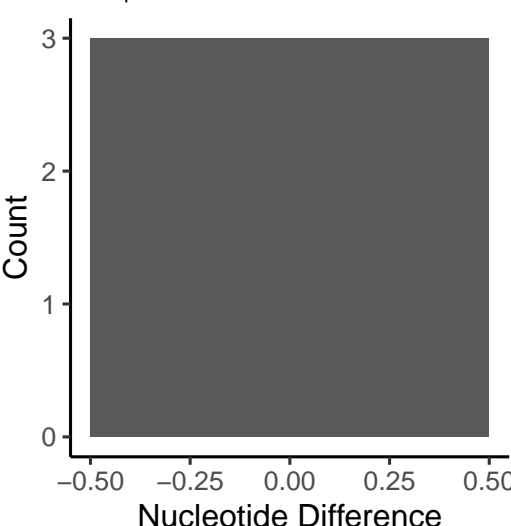
IGHV6–1*01

381 sequences assigned
26 (6.8%) exact matches, in which:
26 unique CDR3
6 unique J



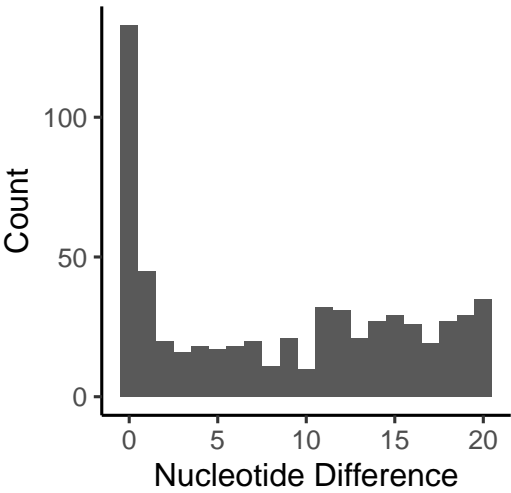
IGHV7–4–1*01

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



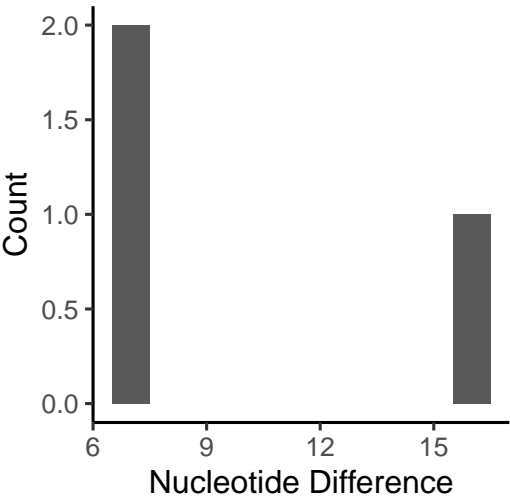
IGHV5–51*01

1001 sequences assigned
133 (13.3%) exact matches, in which:
131 unique CDR3
7 unique J



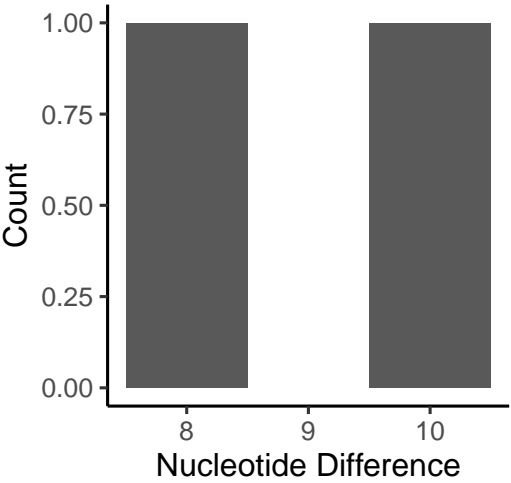
IGHV3/OR16–9*01

3 sequences assigned
No exact matches.



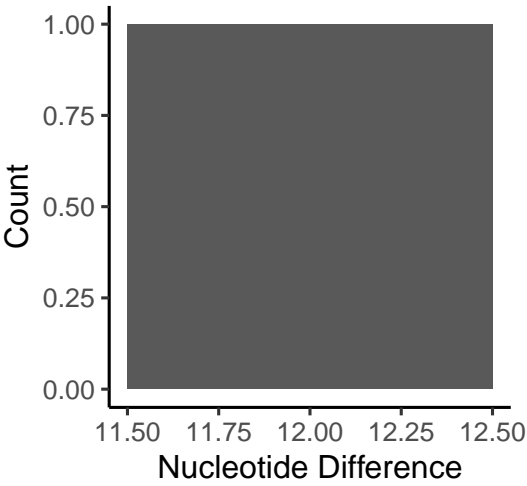
IGHV7–4–1*02

3 sequences assigned
No exact matches.



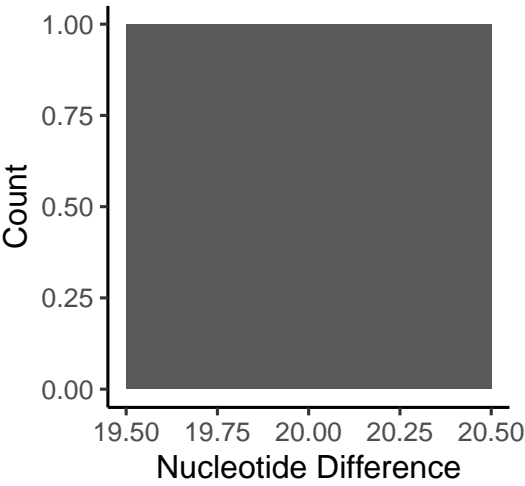
IGHV5–78*01

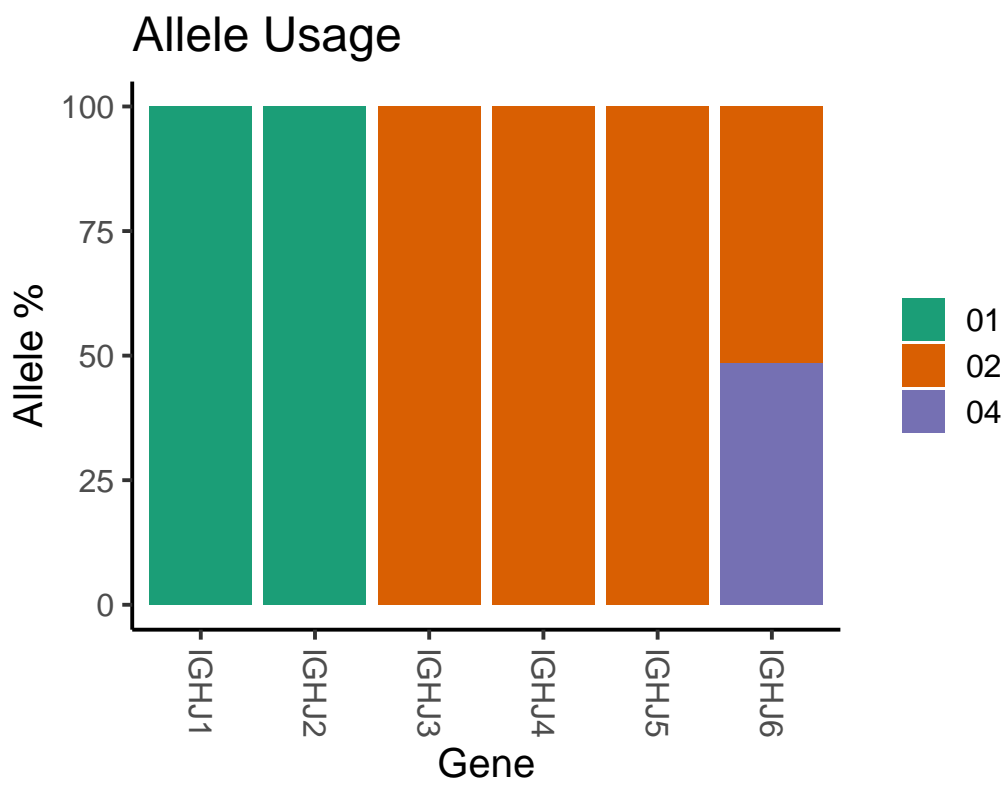
1 sequences assigned
No exact matches.



IGHV3/OR16–12*01

1 sequences assigned
No exact matches.





Sequence Count by IGHJ6 allele usage

