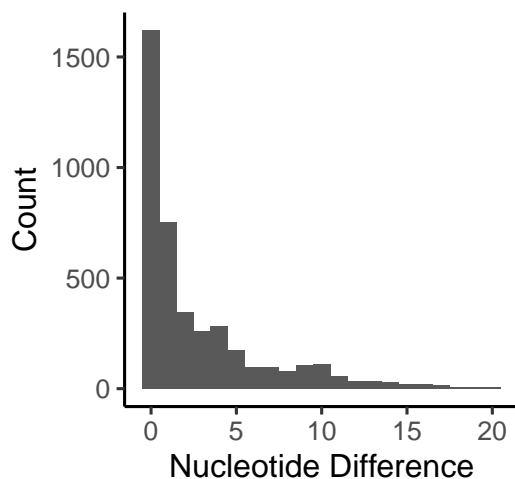


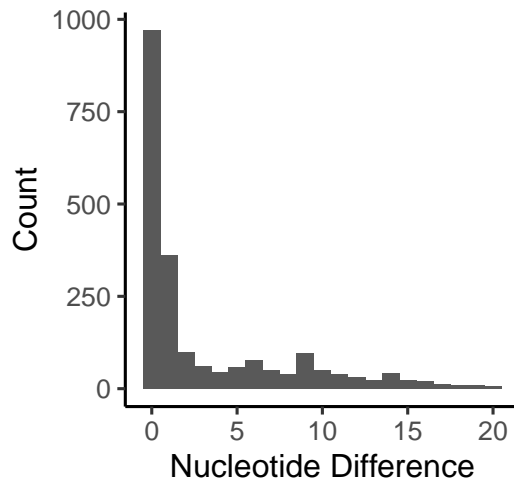
IGHV1-2*02

4198 sequences assigned
1620 (38.6%) exact matches, in which:
1520 unique CDR3
7 unique J



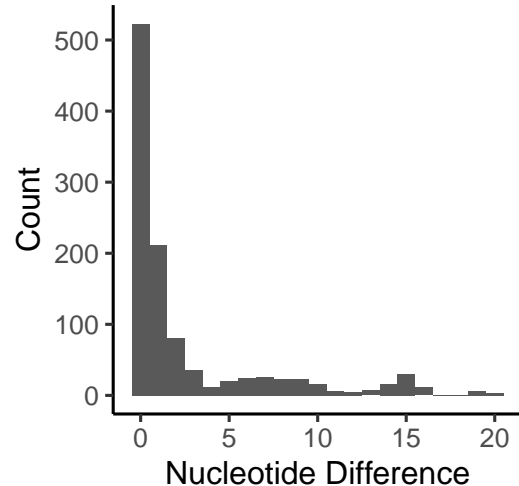
IGHV1-18*01

2159 sequences assigned
970 (44.9%) exact matches, in which:
920 unique CDR3
7 unique J



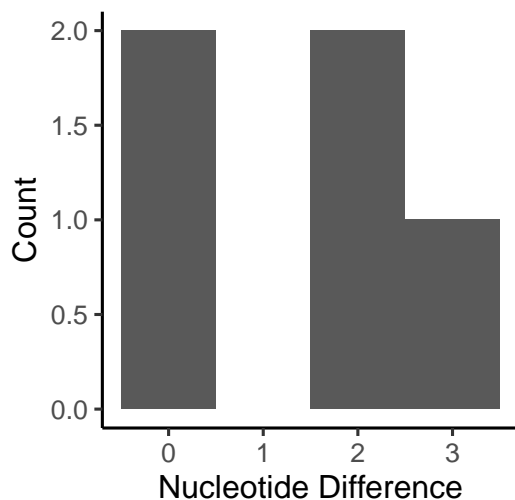
IGHV1-46*01

1094 sequences assigned
523 (47.8%) exact matches, in which:
503 unique CDR3
7 unique J



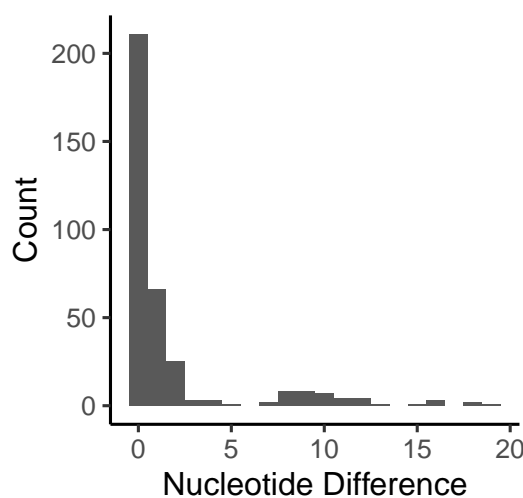
IGHV1-3*02

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



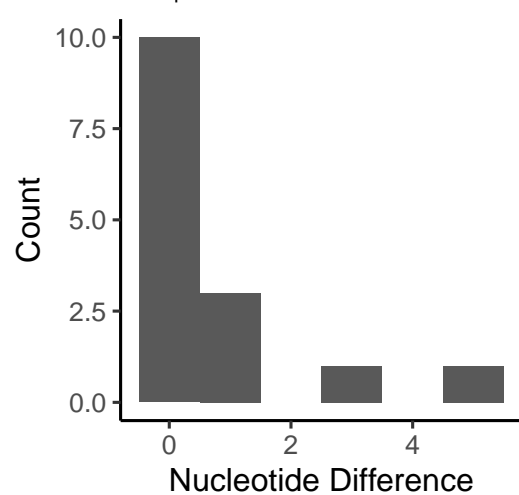
IGHV1-24*01

350 sequences assigned
211 (60.3%) exact matches, in which:
202 unique CDR3
7 unique J



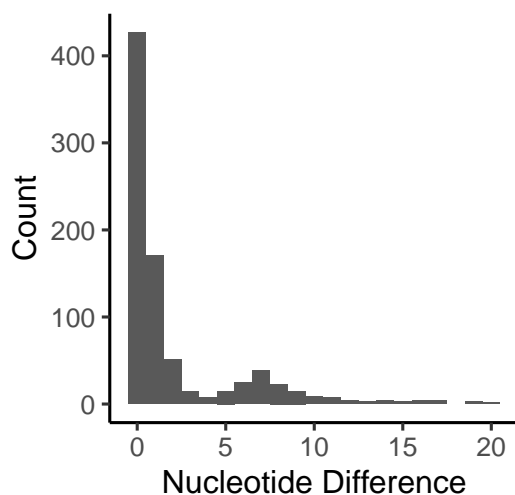
IGHV1-58*02

15 sequences assigned
10 (66.7%) exact matches, in which:
9 unique CDR3
4 unique J



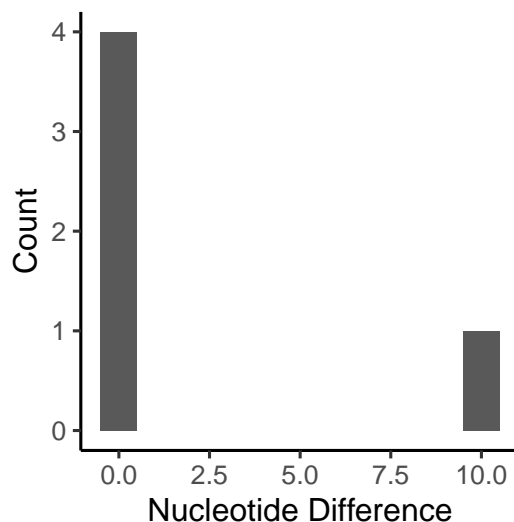
IGHV1-8*01

833 sequences assigned
427 (51.3%) exact matches, in which:
409 unique CDR3
7 unique J



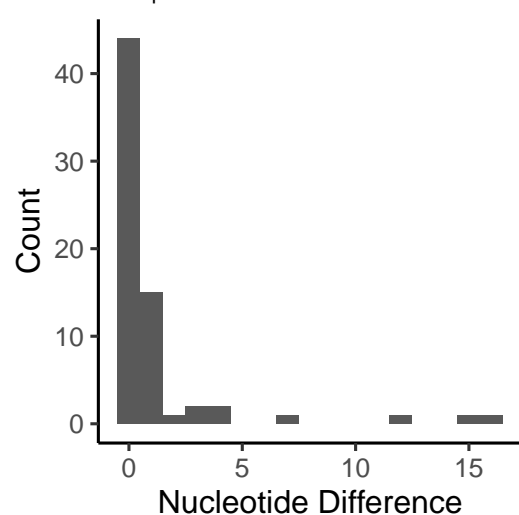
IGHV1-45*02

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



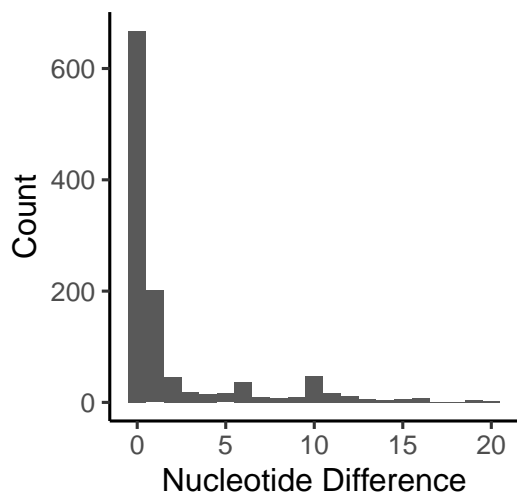
IGHV1-58*01_03

70 sequences assigned
44 (62.9%) exact matches, in which:
43 unique CDR3
4 unique J



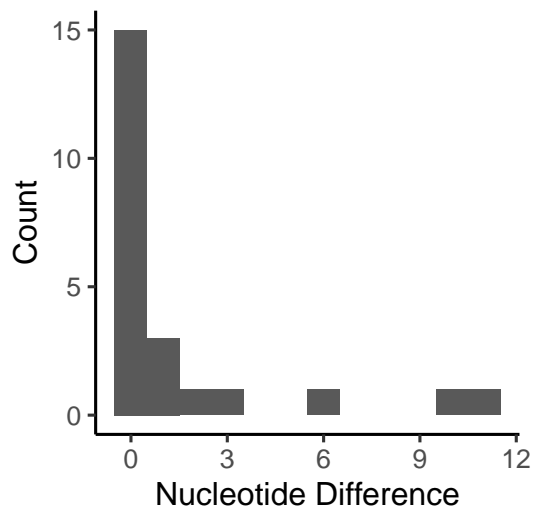
IGHV1-69*01_12_13

1157 sequences assigned
668 (57.7%) exact matches, in which:
654 unique CDR3
7 unique J



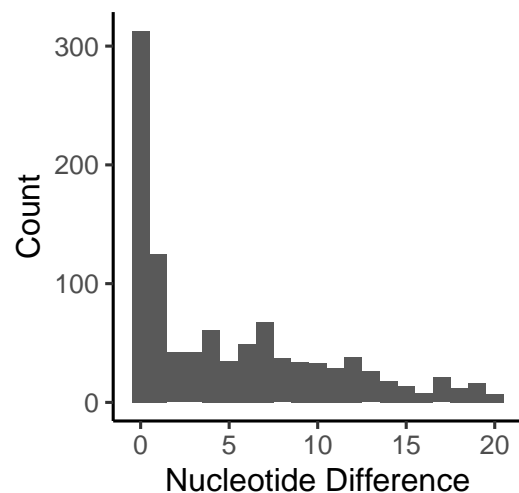
IGHV2-26*01

23 sequences assigned
15 (65.2%) exact matches, in which:
15 unique CDR3
5 unique J



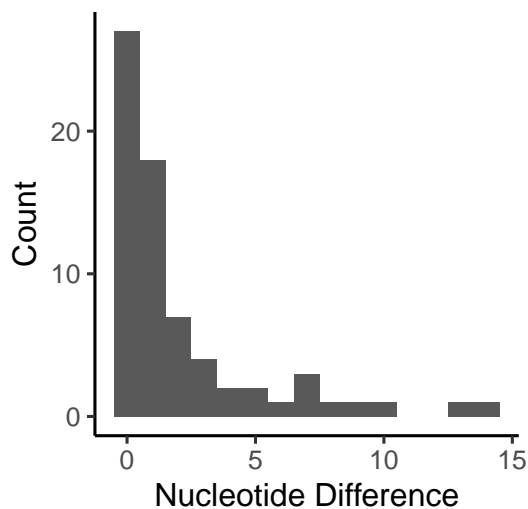
IGHV3-7*01

1067 sequences assigned
313 (29.3%) exact matches, in which:
250 unique CDR3
7 unique J



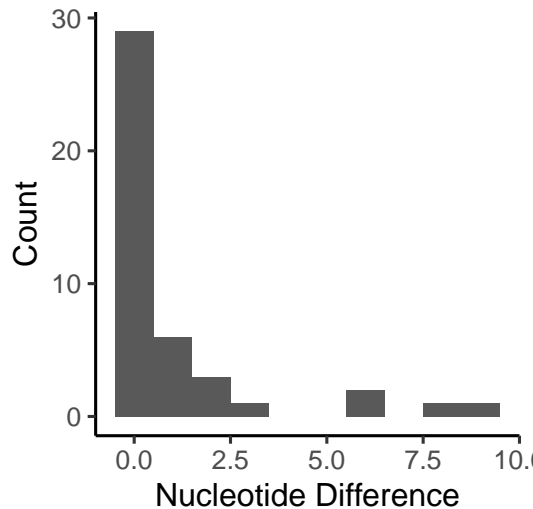
IGHV2-5*01

69 sequences assigned
27 (39.1%) exact matches, in which:
27 unique CDR3
5 unique J



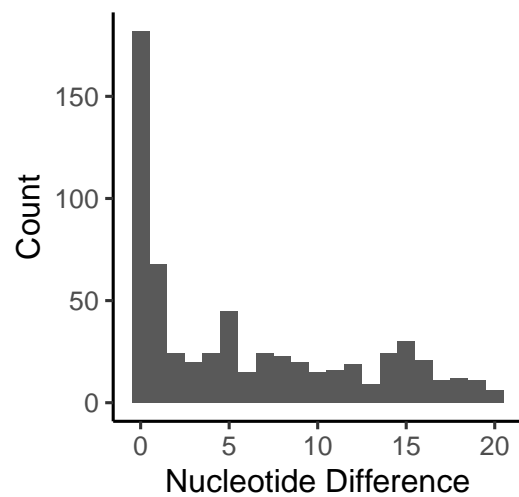
IGHV2-70*01

43 sequences assigned
29 (67.4%) exact matches, in which:
27 unique CDR3
6 unique J



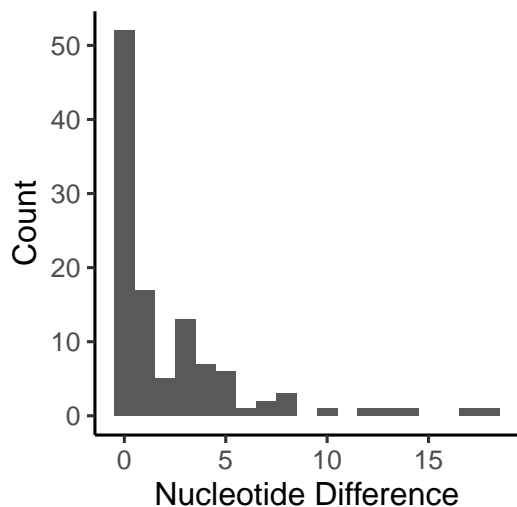
IGHV3-7*04

636 sequences assigned
182 (28.6%) exact matches, in which:
136 unique CDR3
7 unique J



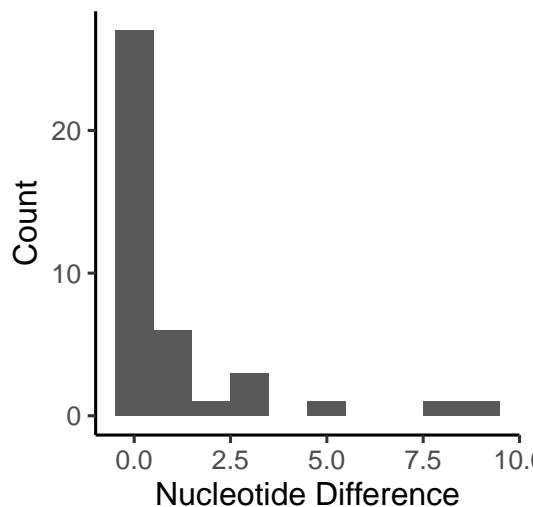
IGHV2-5*02

114 sequences assigned
52 (45.6%) exact matches, in which:
52 unique CDR3
4 unique J



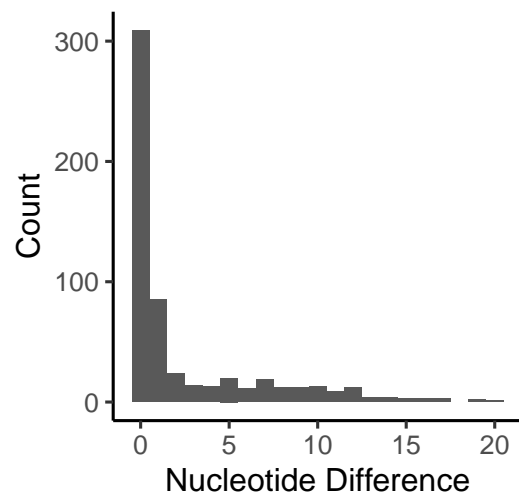
IGHV2-70*11_15

40 sequences assigned
27 (67.5%) exact matches, in which:
26 unique CDR3
4 unique J



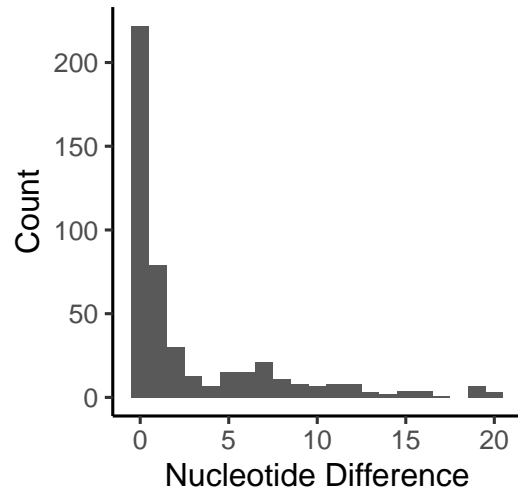
IGHV3-9*01

579 sequences assigned
309 (53.4%) exact matches, in which:
255 unique CDR3
5 unique J



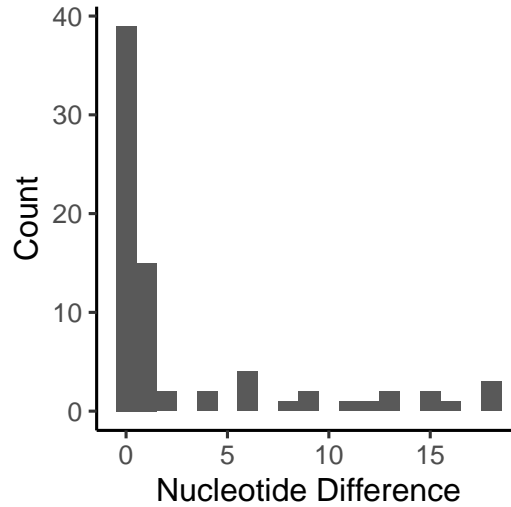
IGHV3-11*01

472 sequences assigned
222 (47%) exact matches, in which:
175 unique CDR3
7 unique J



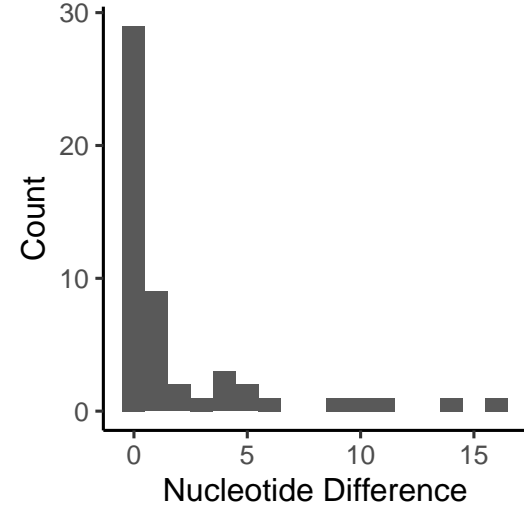
IGHV3-13*01

76 sequences assigned
39 (51.3%) exact matches, in which:
32 unique CDR3
5 unique J



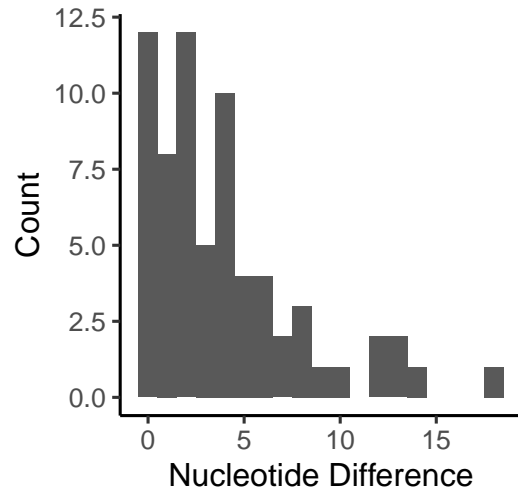
IGHV3-20*01_02

53 sequences assigned
29 (54.7%) exact matches, in which:
23 unique CDR3
6 unique J



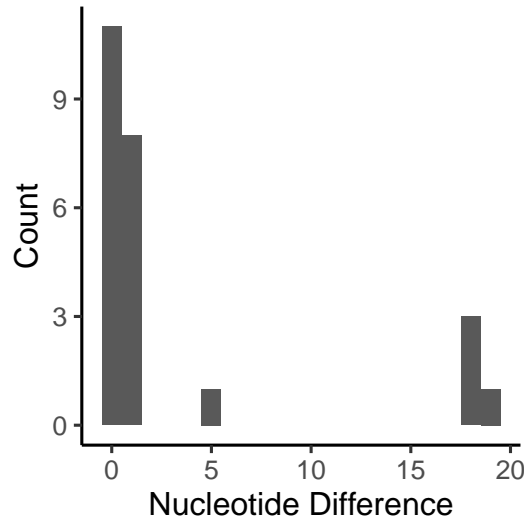
IGHV3-11*04

69 sequences assigned
12 (17.4%) exact matches, in which:
12 unique CDR3
3 unique J



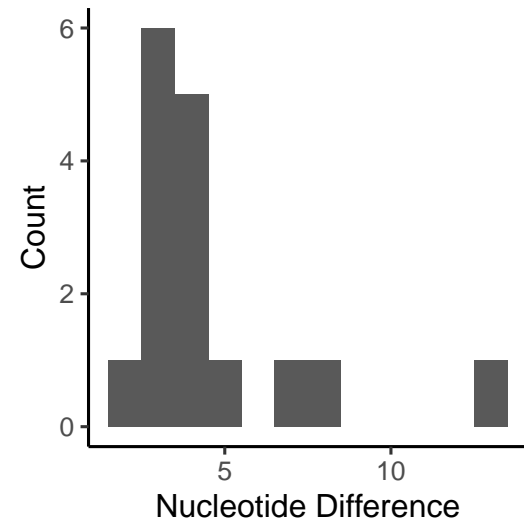
IGHV3-13*05

24 sequences assigned
11 (45.8%) exact matches, in which:
9 unique CDR3
5 unique J



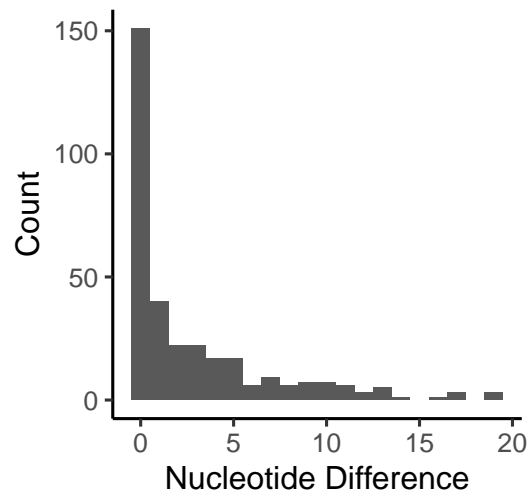
IGHV3-20*03_04

16 sequences assigned
No exact matches.



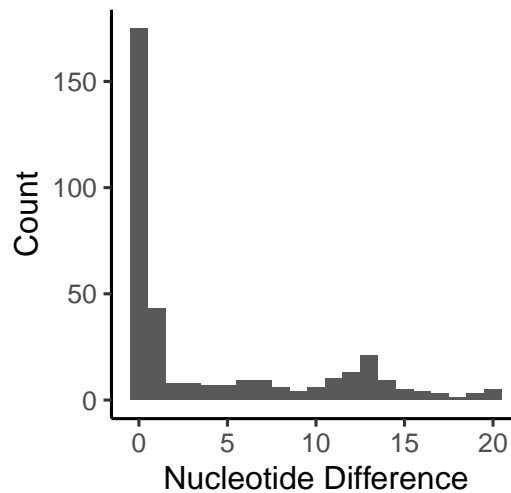
IGHV3-11*06

333 sequences assigned
151 (45.3%) exact matches, in which:
117 unique CDR3
6 unique J



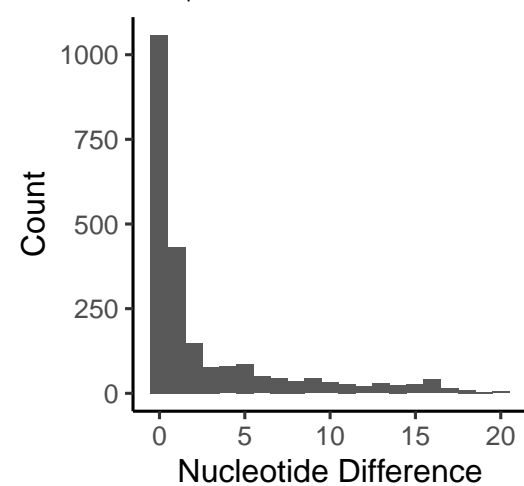
IGHV3-15*01_02

384 sequences assigned
175 (45.6%) exact matches, in which:
155 unique CDR3
7 unique J



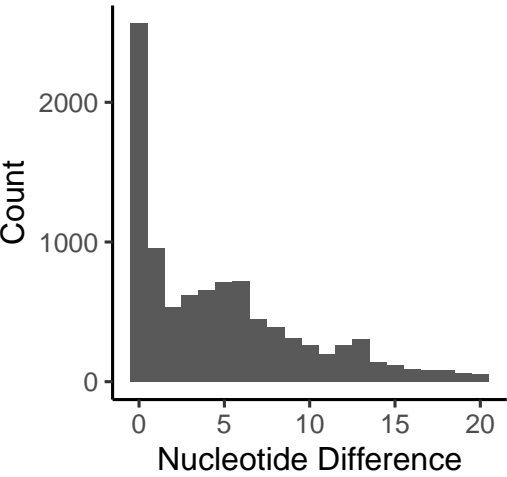
IGHV3-21*01_02

2318 sequences assigned
1058 (45.6%) exact matches, in which:
815 unique CDR3
7 unique J



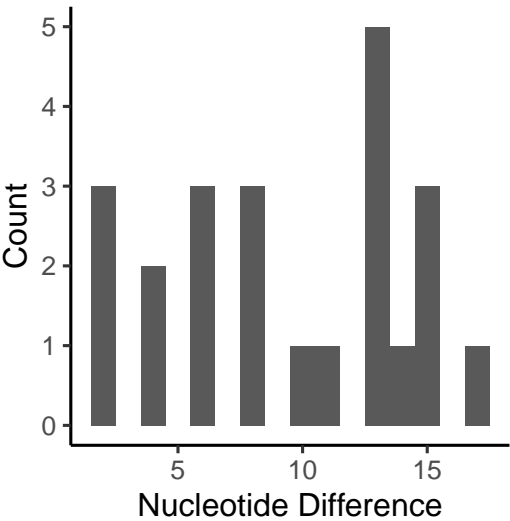
IGHV3-23*01_04

9761 sequences assigned
2565 (26.3%) exact matches, in which:
1933 unique CDR3
7 unique J



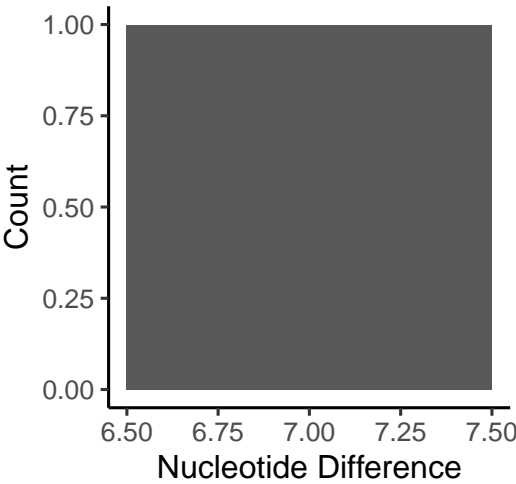
IGHV3-33*01

23 sequences assigned
No exact matches.



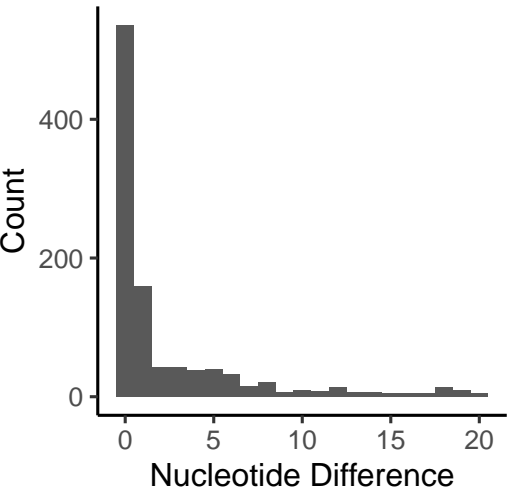
IGHV3-35*01

1 sequences assigned
No exact matches.



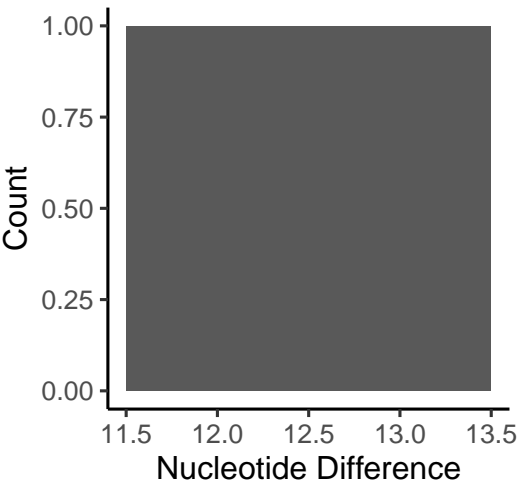
IGHV3-30-3*01

1135 sequences assigned
536 (47.2%) exact matches, in which:
424 unique CDR3
7 unique J



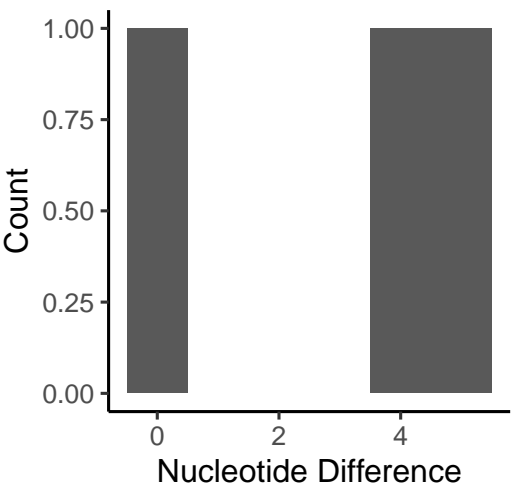
IGHV3-33*03

3 sequences assigned
No exact matches.



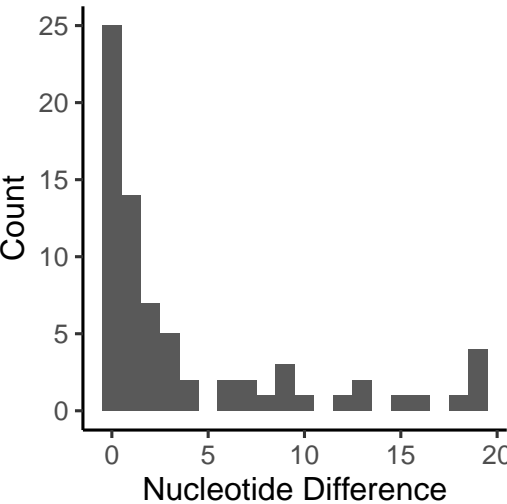
IGHV3-35*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



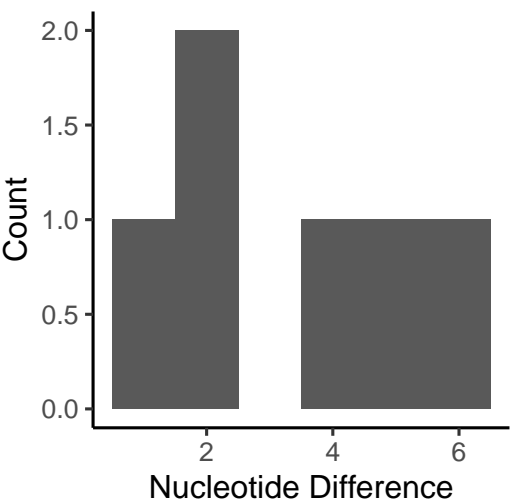
IGHV3-30*03

81 sequences assigned
25 (30.9%) exact matches, in which:
24 unique CDR3
5 unique J



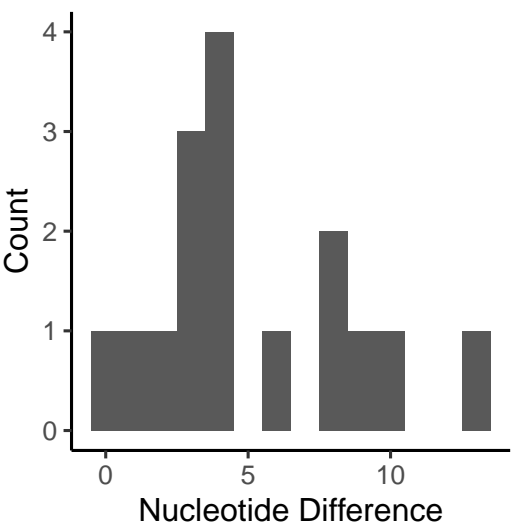
IGHV3-33*05

7 sequences assigned
No exact matches.



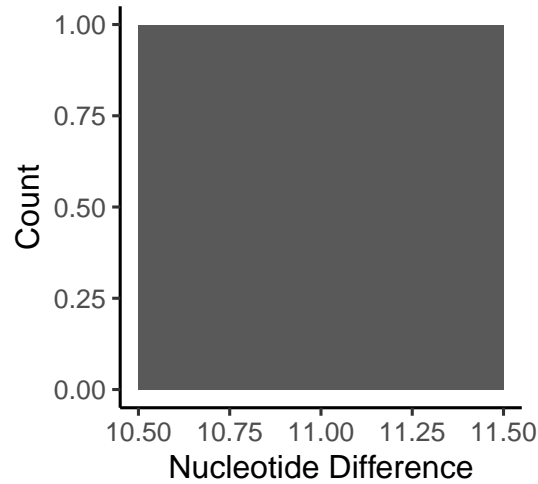
IGHV3-38-3*01

16 sequences assigned
1 (6.2%) exact matches, in which:
1 unique CDR3
1 unique J



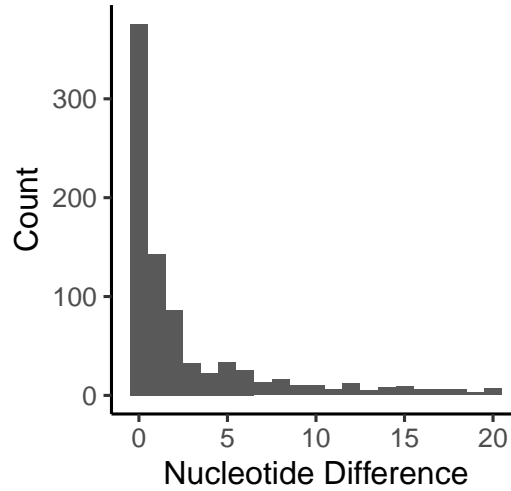
IGHV3-38*03

1 sequences assigned
No exact matches.



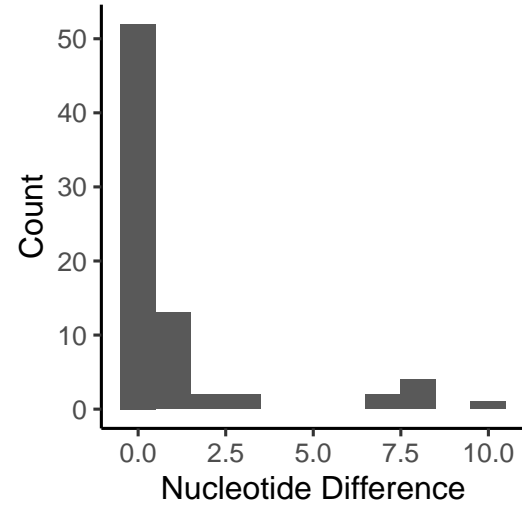
IGHV3-48*02

858 sequences assigned
376 (43.8%) exact matches, in which:
289 unique CDR3
6 unique J



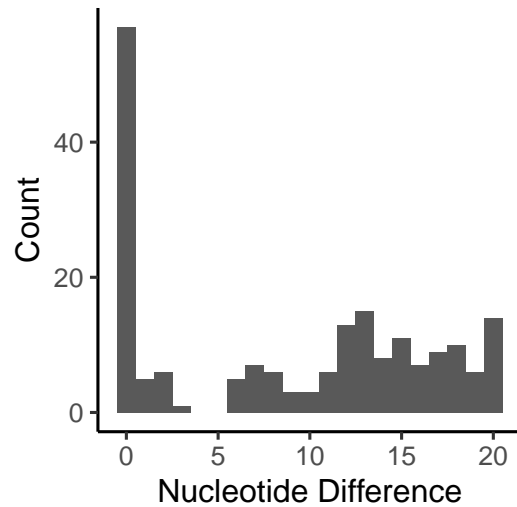
IGHV3-53*04

76 sequences assigned
52 (68.4%) exact matches, in which:
43 unique CDR3
5 unique J



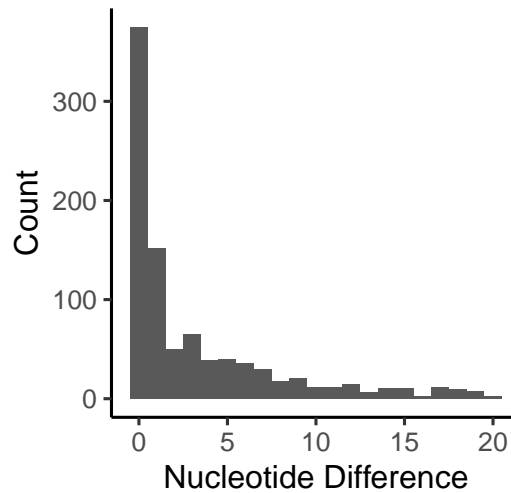
IGHV3-43*01

231 sequences assigned
57 (24.7%) exact matches, in which:
45 unique CDR3
4 unique J



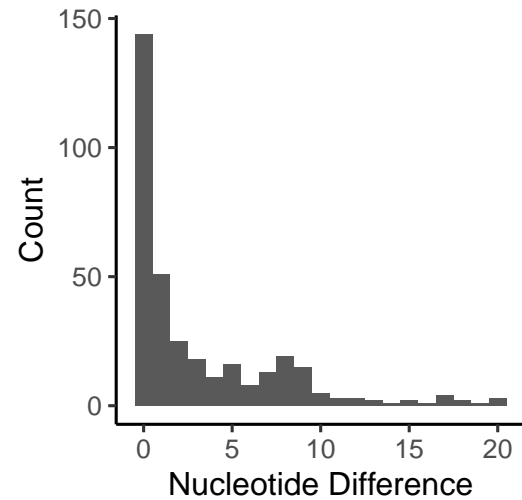
IGHV3-48*04

947 sequences assigned
375 (39.6%) exact matches, in which:
288 unique CDR3
7 unique J



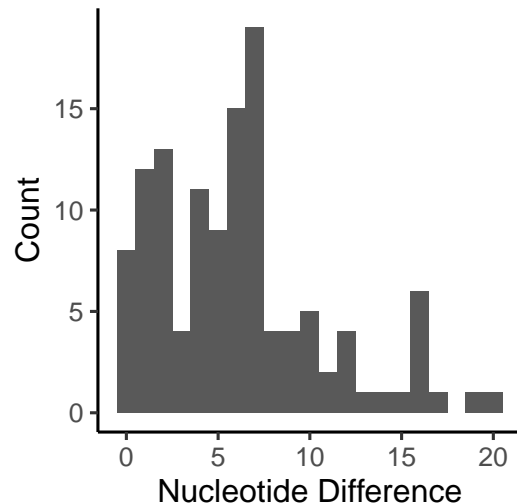
IGHV3-53*01_02

355 sequences assigned
144 (40.6%) exact matches, in which:
111 unique CDR3
7 unique J



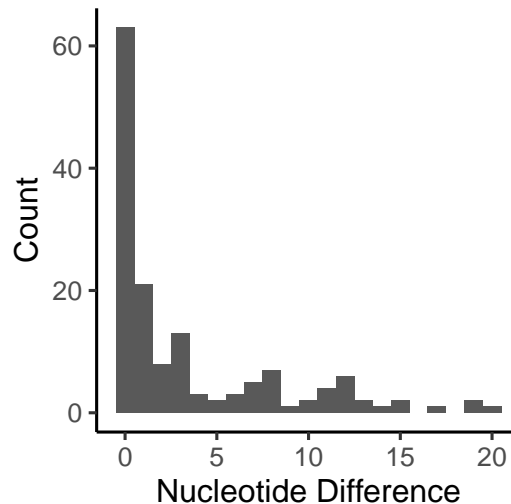
IGHV3-48*01

126 sequences assigned
8 (6.3%) exact matches, in which:
8 unique CDR3
2 unique J



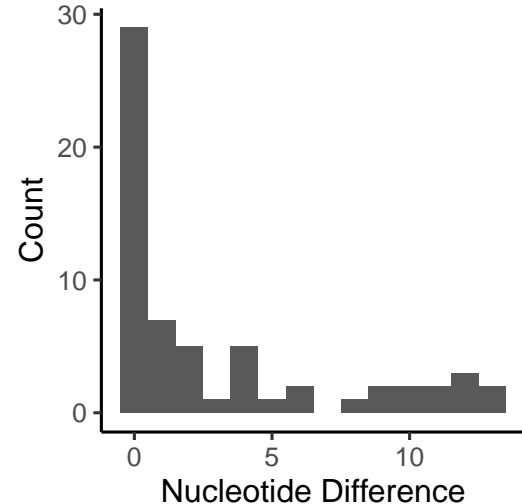
IGHV3-49*03_05

155 sequences assigned
63 (40.6%) exact matches, in which:
47 unique CDR3
5 unique J



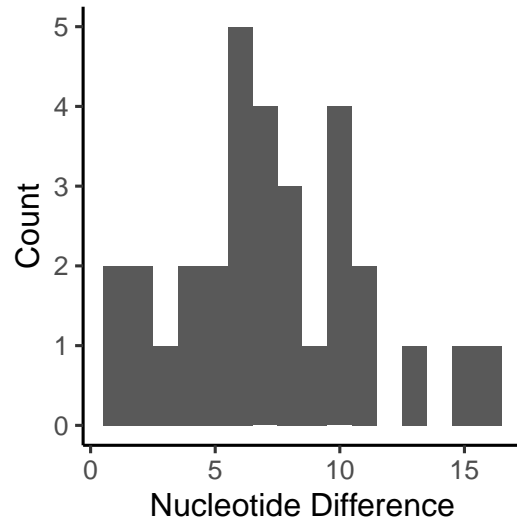
IGHV3-64*01

63 sequences assigned
29 (46%) exact matches, in which:
22 unique CDR3
4 unique J



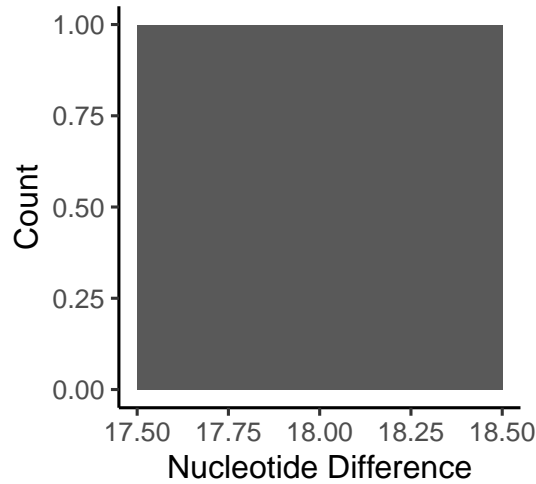
IGHV3-64*04

31 sequences assigned
No exact matches.



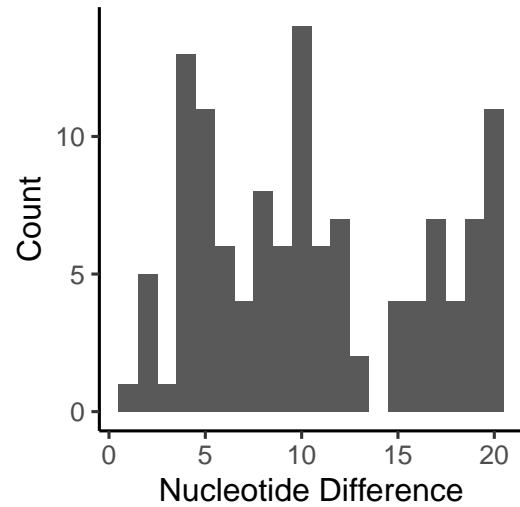
IGHV3-69-1*01

3 sequences assigned
No exact matches.



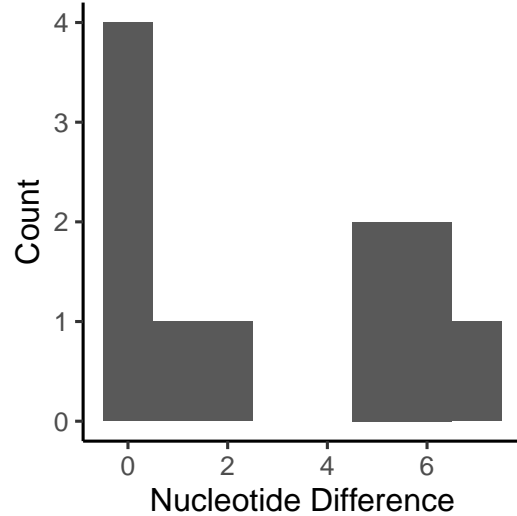
IGHV3-74*03

154 sequences assigned
No exact matches.



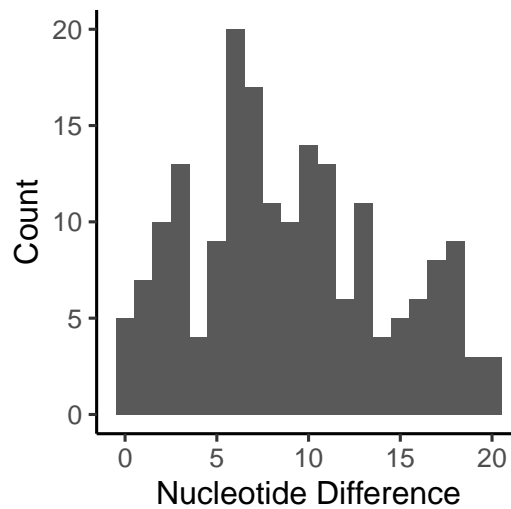
IGHV3-64*02_07

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



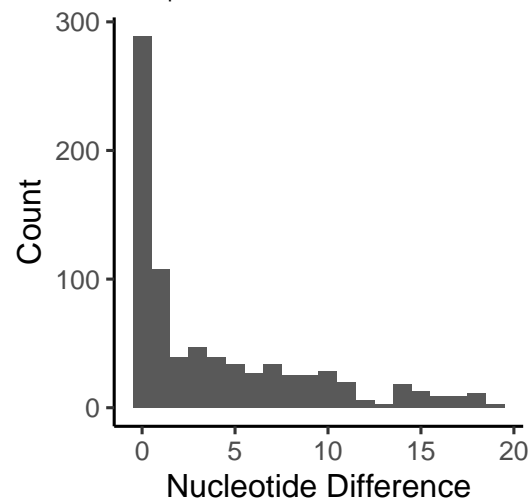
IGHV3-72*01

198 sequences assigned
5 (2.5%) exact matches, in which:
4 unique CDR3
2 unique J



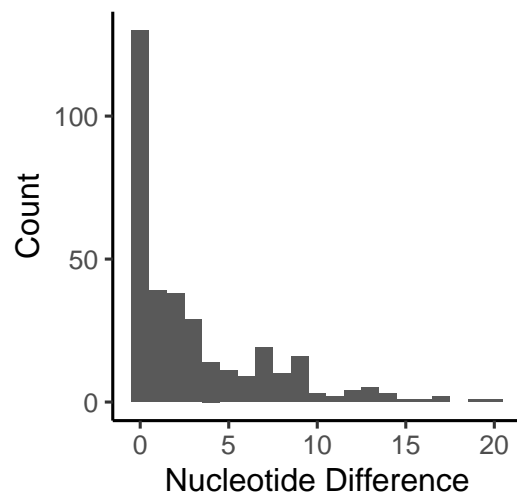
IGHV3-74*01_02

804 sequences assigned
289 (35.9%) exact matches, in which:
216 unique CDR3
6 unique J



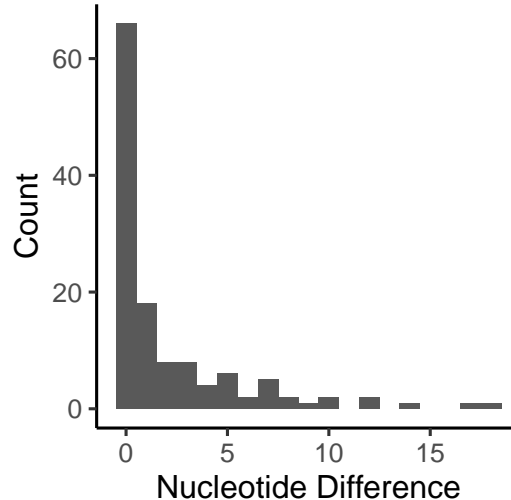
IGHV3-66*01

344 sequences assigned
130 (37.8%) exact matches, in which:
99 unique CDR3
6 unique J



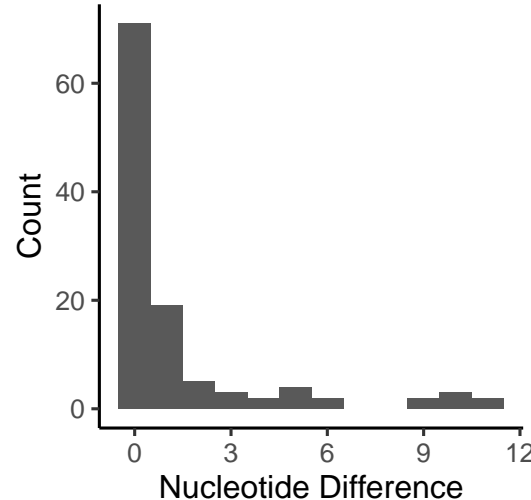
IGHV3-73*01_02

129 sequences assigned
66 (51.2%) exact matches, in which:
58 unique CDR3
6 unique J



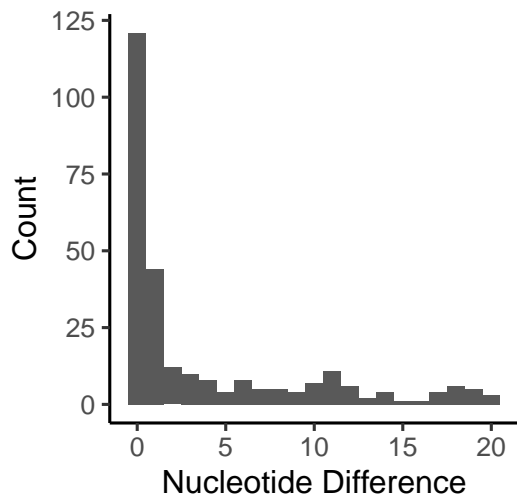
IGHV3-43D*03

114 sequences assigned
71 (62.3%) exact matches, in which:
57 unique CDR3
6 unique J



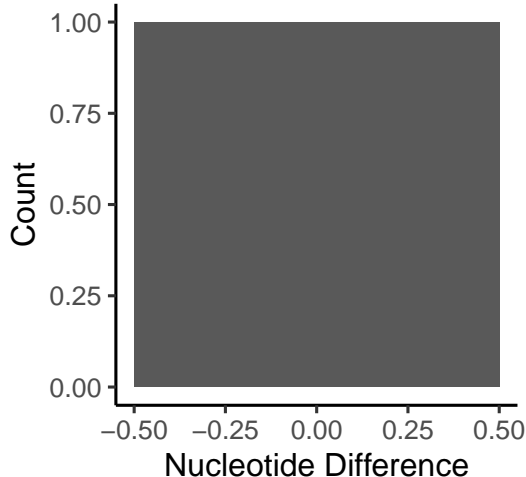
IGHV3–64D*06

313 sequences assigned
121 (38.7%) exact matches, in which:
89 unique CDR3
7 unique J



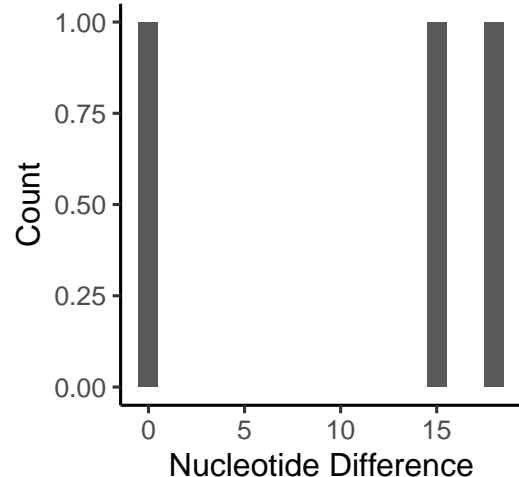
IGHV4–28*01_07

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



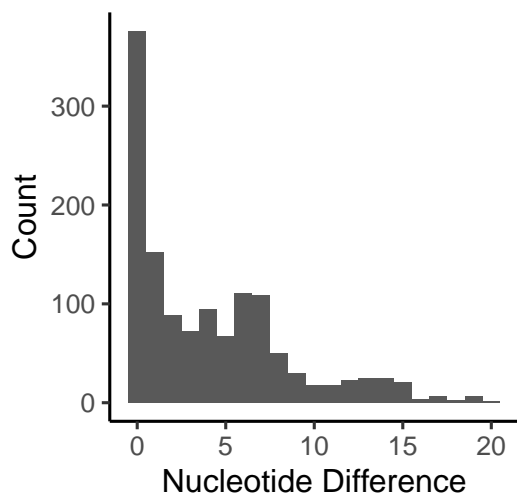
IGHV4–31*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



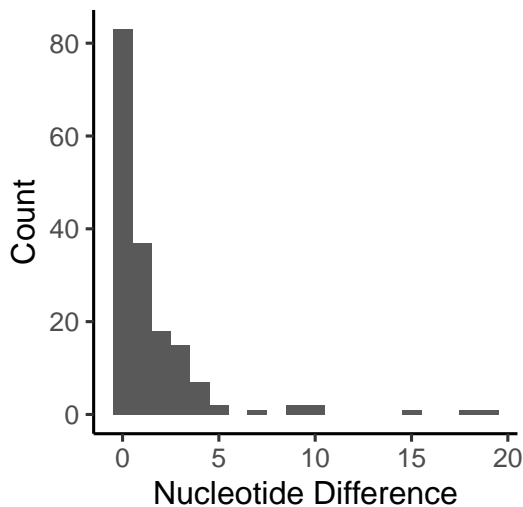
IGHV4–4*07

1317 sequences assigned
376 (28.5%) exact matches, in which:
357 unique CDR3
7 unique J



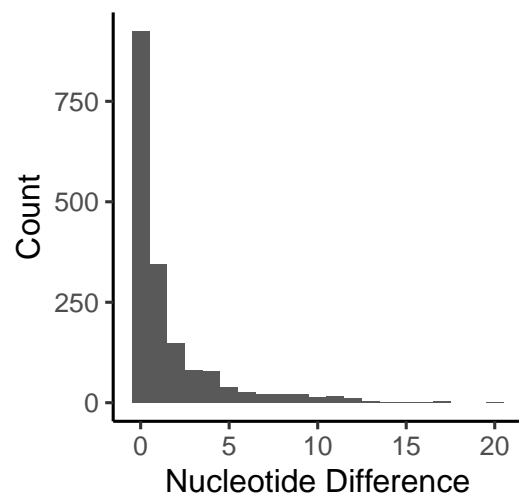
IGHV4–30–2*01

171 sequences assigned
83 (48.5%) exact matches, in which:
81 unique CDR3
7 unique J



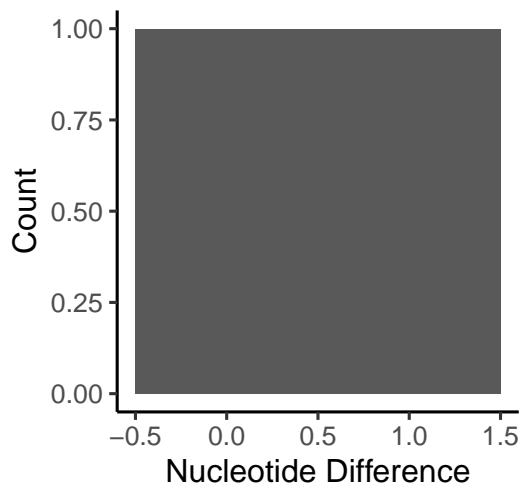
IGHV4–34*01_02

1785 sequences assigned
925 (51.8%) exact matches, in which:
894 unique CDR3
7 unique J



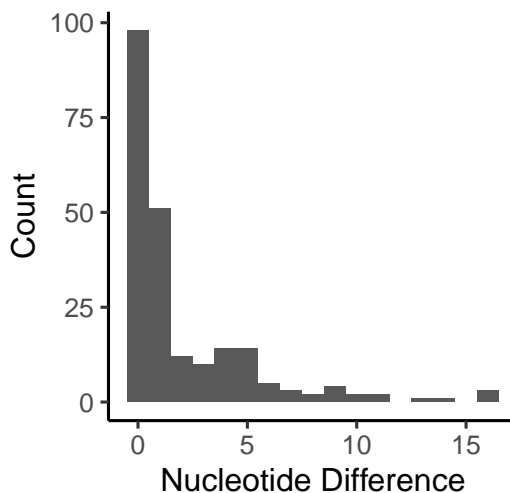
IGHV4–28*03

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



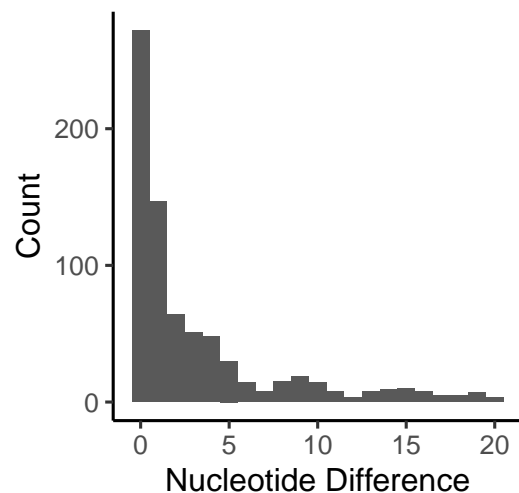
IGHV4–30–4*01

225 sequences assigned
98 (43.6%) exact matches, in which:
97 unique CDR3
6 unique J



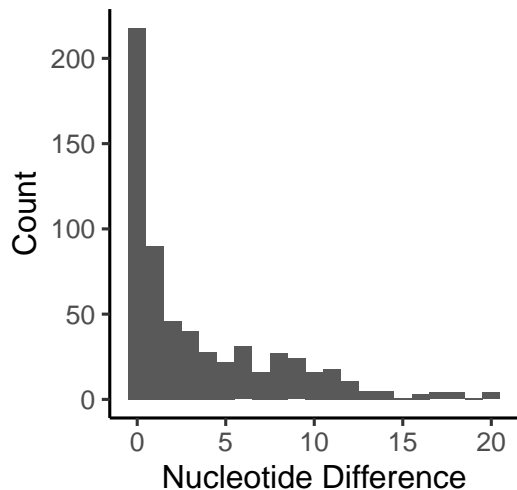
IGHV4–38–2*02

770 sequences assigned
272 (35.3%) exact matches, in which:
258 unique CDR3
6 unique J



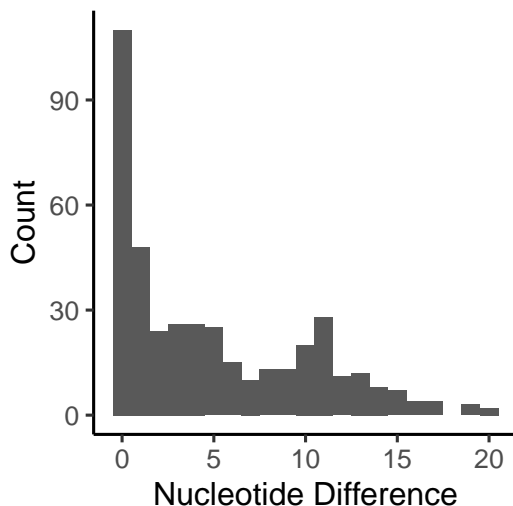
IGHV4–39*07

625 sequences assigned
218 (34.9%) exact matches, in which:
212 unique CDR3
6 unique J



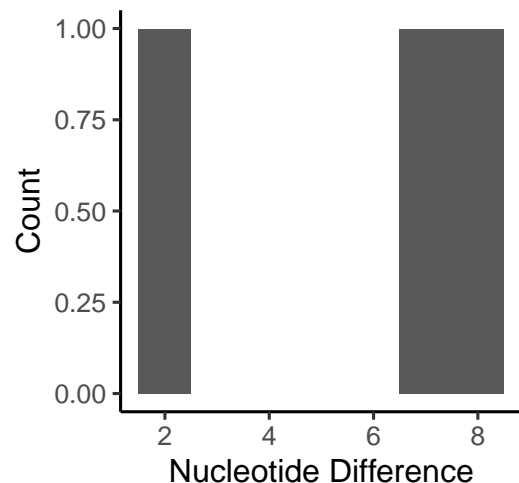
IGHV4–61*01

416 sequences assigned
110 (26.4%) exact matches, in which:
106 unique CDR3
7 unique J



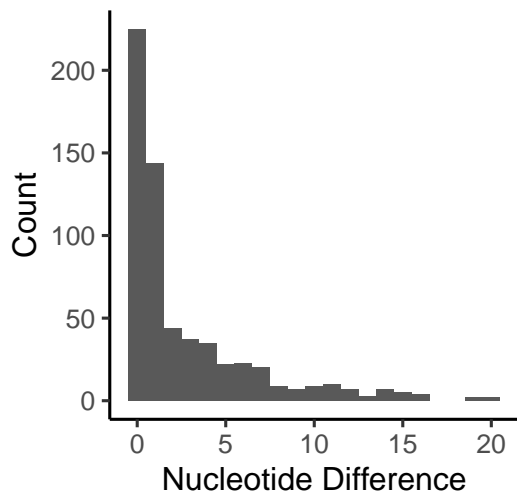
IGHV5–51*04

3 sequences assigned
No exact matches.



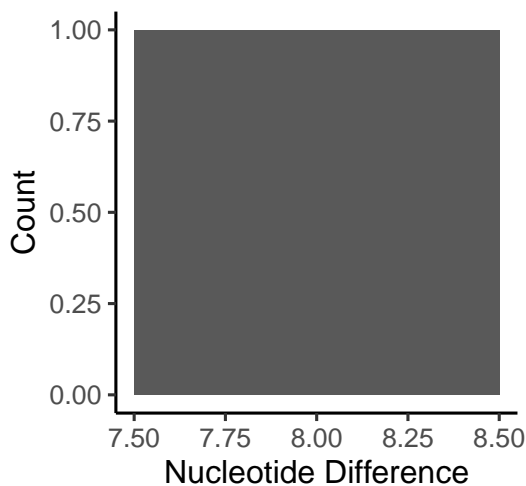
IGHV4–59*08

623 sequences assigned
225 (36.1%) exact matches, in which:
213 unique CDR3
7 unique J



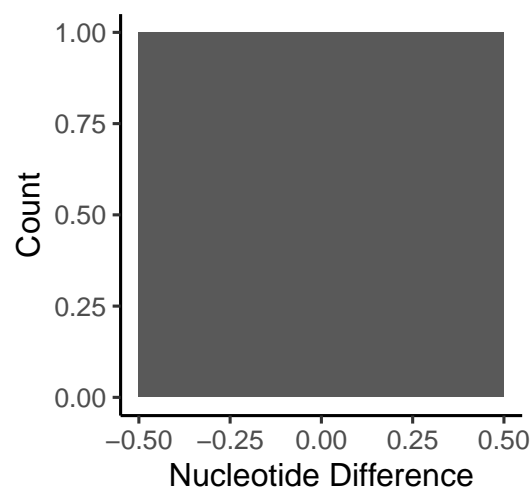
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



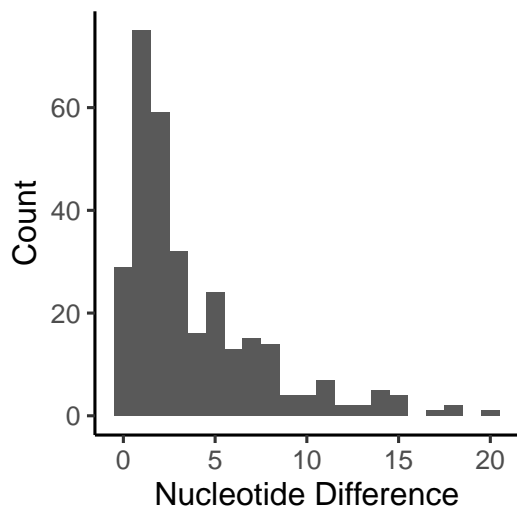
IGHV5–51*06

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



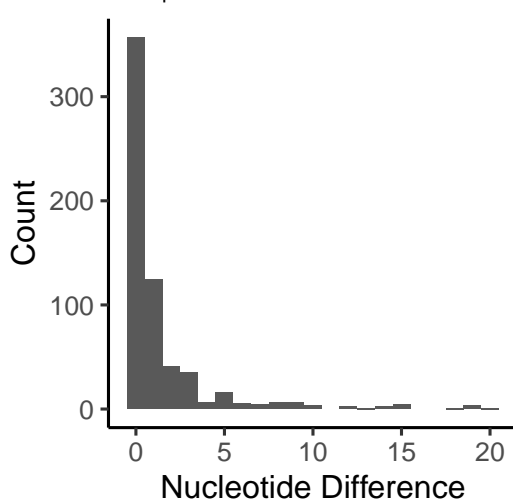
IGHV4–59*12

317 sequences assigned
29 (9.1%) exact matches, in which:
28 unique CDR3
5 unique J



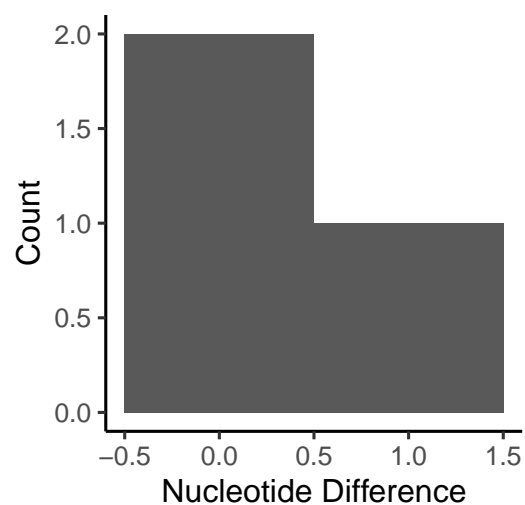
IGHV5–10–1*01_03

622 sequences assigned
357 (57.4%) exact matches, in which:
328 unique CDR3
7 unique J



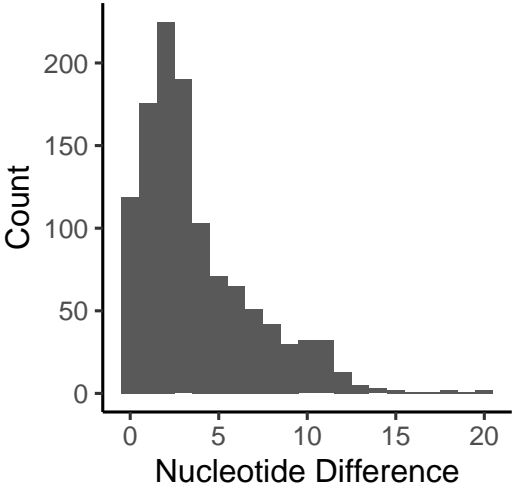
IGHV5–51*07

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

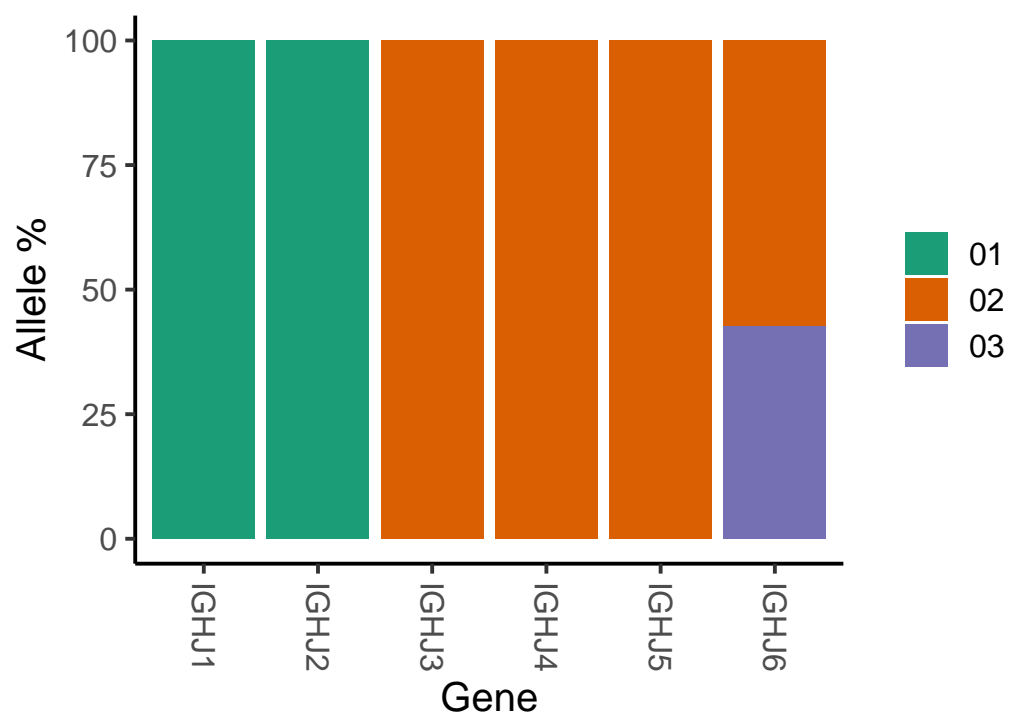


IGHV6-1*01_02

1167 sequences assigned
119 (10.2%) exact matches, in which:
113 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage

