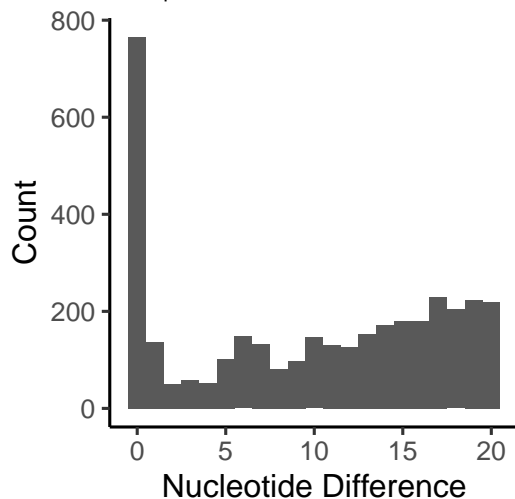


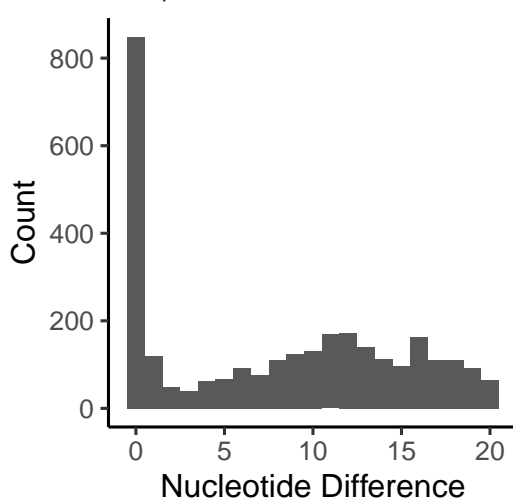
IGHV1-2*02

5953 sequences assigned
766 (12.9%) exact matches, in which:
729 unique CDR3
6 unique J



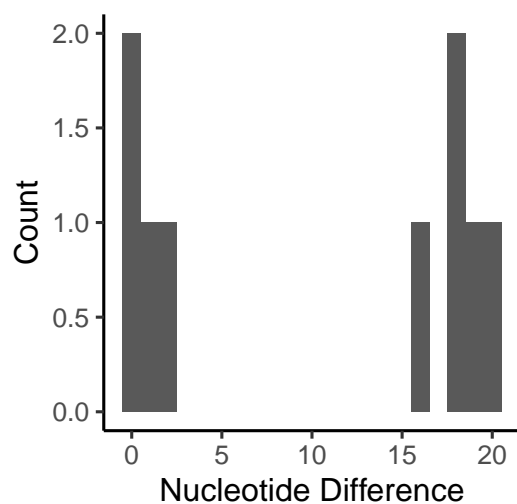
IGHV1-8*01

3787 sequences assigned
849 (22.4%) exact matches, in which:
817 unique CDR3
7 unique J



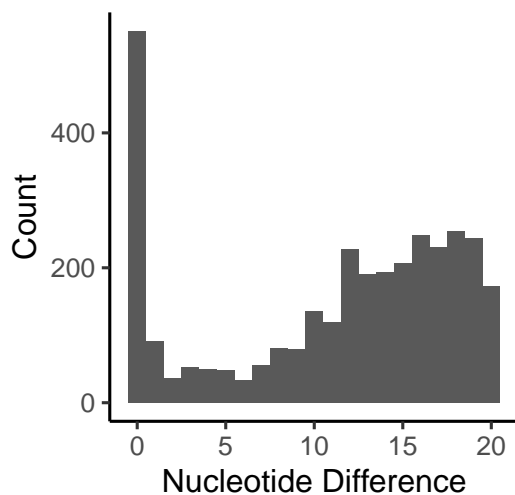
IGHV1-45*02

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



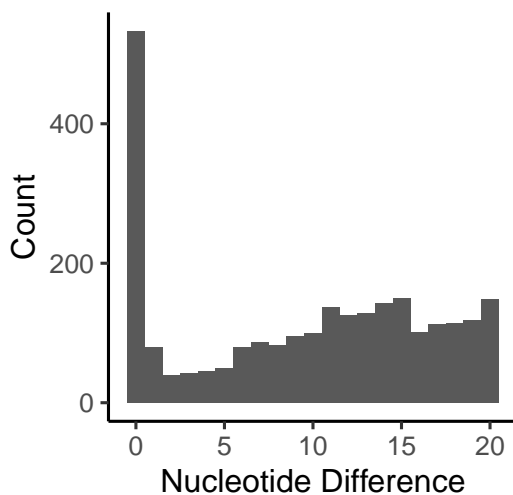
IGHV1-2*06

5663 sequences assigned
551 (9.7%) exact matches, in which:
533 unique CDR3
6 unique J



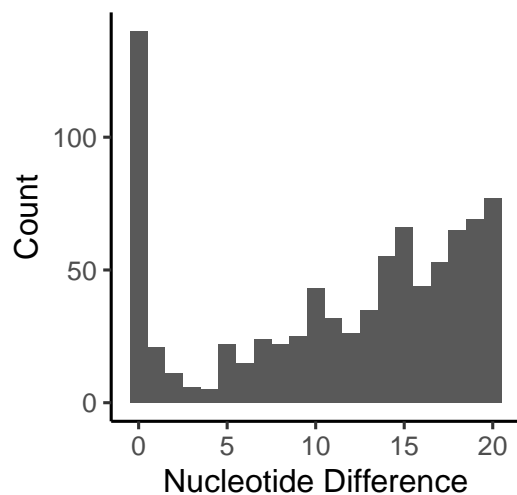
IGHV1-18*01

4275 sequences assigned
533 (12.5%) exact matches, in which:
508 unique CDR3
7 unique J



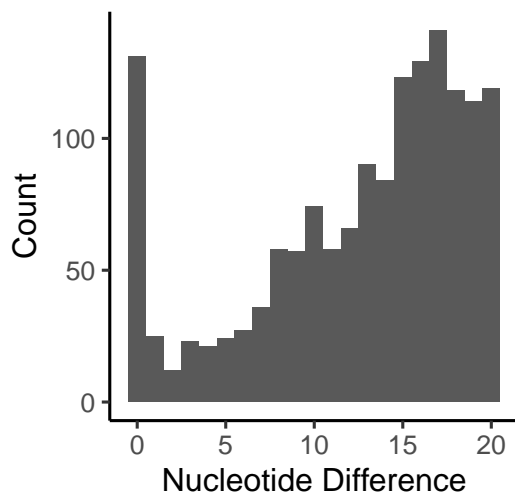
IGHV1-46*01

1713 sequences assigned
140 (8.2%) exact matches, in which:
128 unique CDR3
6 unique J



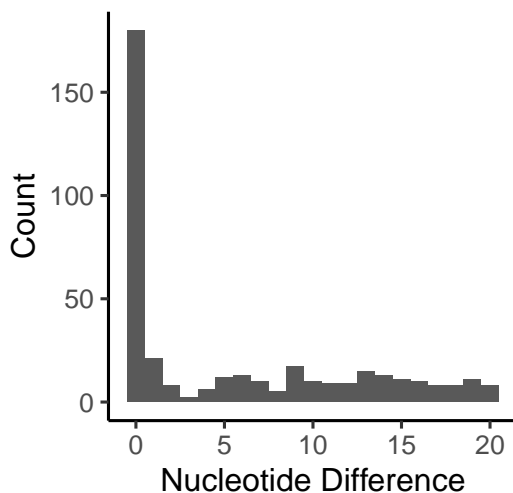
IGHV1-3*01

2594 sequences assigned
131 (5.1%) exact matches, in which:
123 unique CDR3
7 unique J



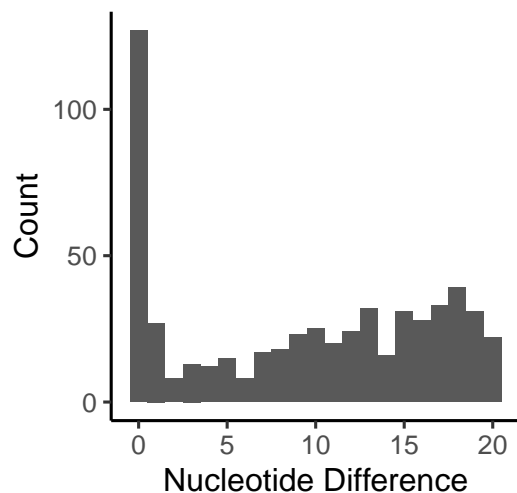
IGHV1-24*01

521 sequences assigned
180 (34.5%) exact matches, in which:
179 unique CDR3
7 unique J



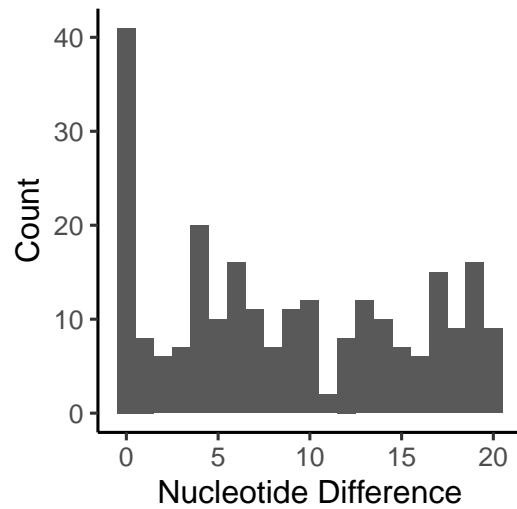
IGHV1-46*03

987 sequences assigned
127 (12.9%) exact matches, in which:
123 unique CDR3
7 unique J



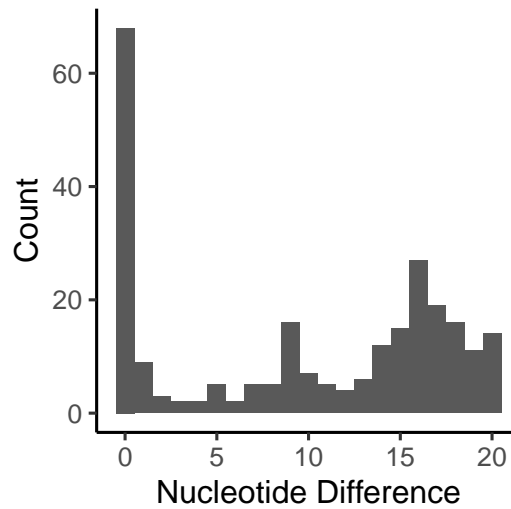
IGHV1-58*01

331 sequences assigned
41 (12.4%) exact matches, in which:
40 unique CDR3
4 unique J



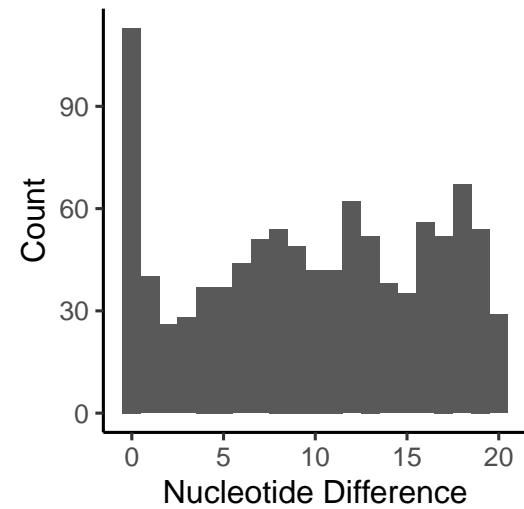
IGHV1-69-2*01

500 sequences assigned
68 (13.6%) exact matches, in which:
67 unique CDR3
6 unique J



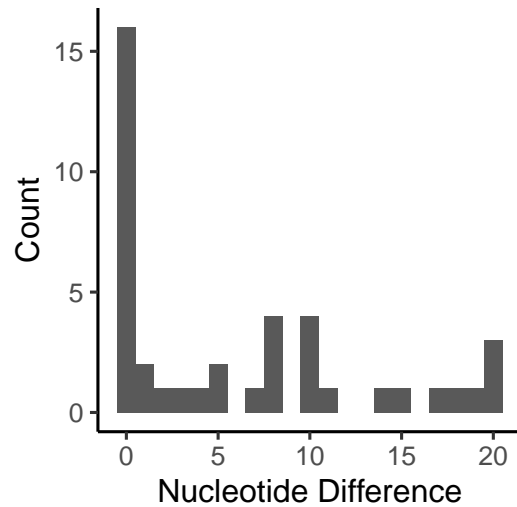
IGHV2-5*02

1408 sequences assigned
113 (8%) exact matches, in which:
112 unique CDR3
6 unique J



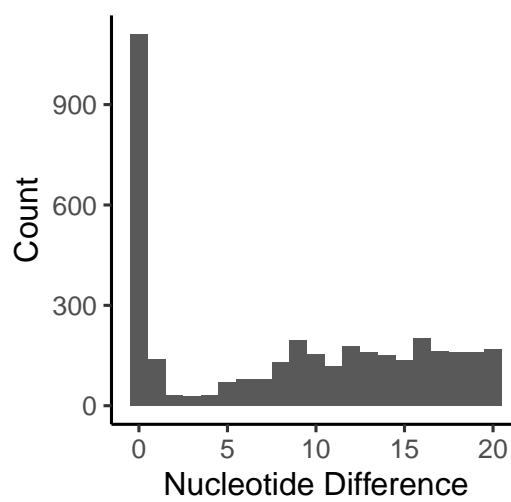
IGHV1-58*02

62 sequences assigned
16 (25.8%) exact matches, in which:
16 unique CDR3
5 unique J



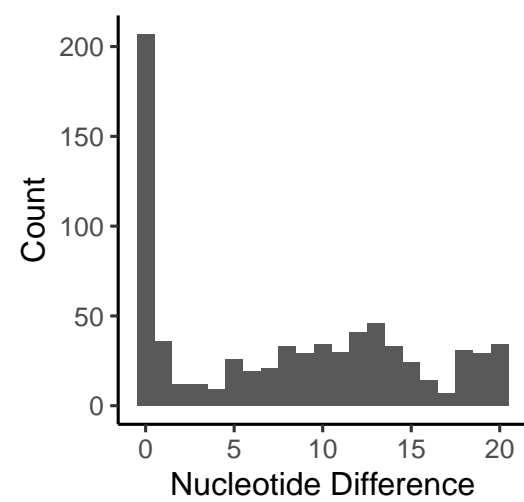
IGHV1-69*06

6063 sequences assigned
1111 (18.3%) exact matches, in which:
1106 unique CDR3
7 unique J



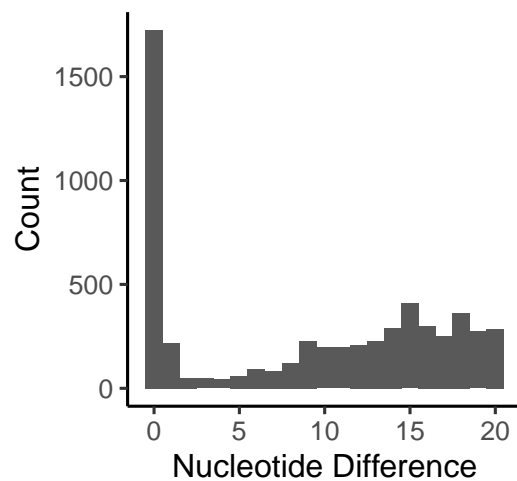
IGHV2-26*01

866 sequences assigned
207 (23.9%) exact matches, in which:
204 unique CDR3
6 unique J



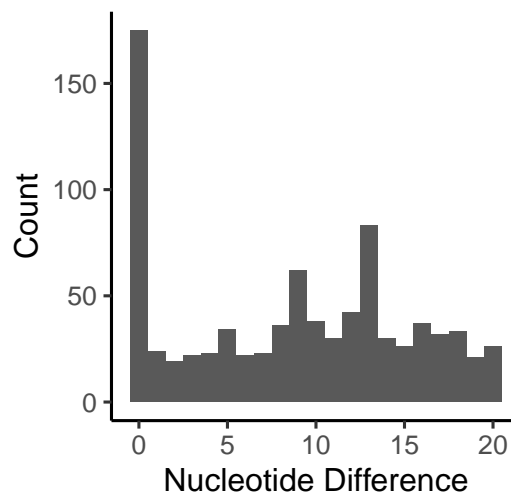
IGHV1-69*01

10409 sequences assigned
1724 (16.6%) exact matches, in which:
1701 unique CDR3
7 unique J



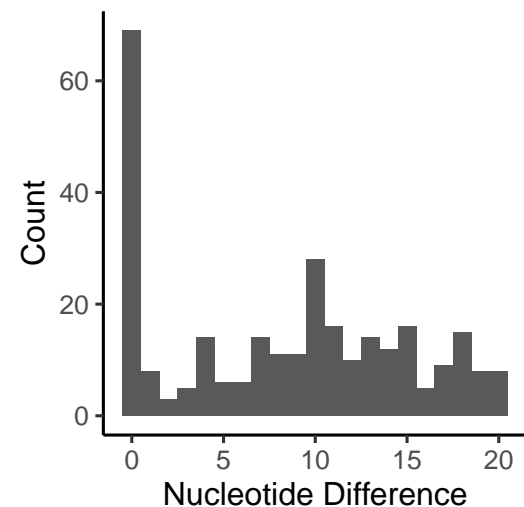
IGHV2-5*01

1101 sequences assigned
175 (15.9%) exact matches, in which:
173 unique CDR3
6 unique J



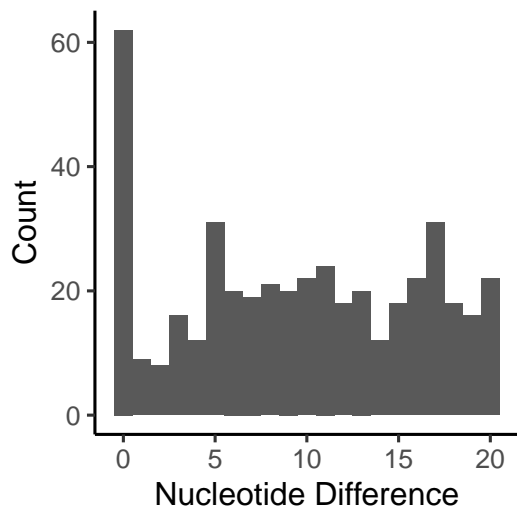
IGHV2-70*01

364 sequences assigned
69 (19%) exact matches, in which:
67 unique CDR3
6 unique J



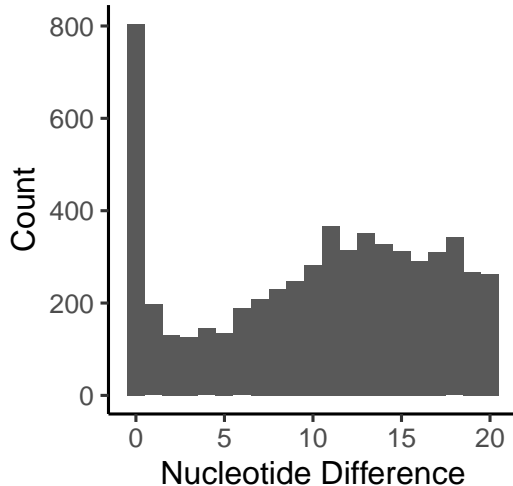
IGHV2-70*04

609 sequences assigned
62 (10.2%) exact matches, in which:
62 unique CDR3
7 unique J



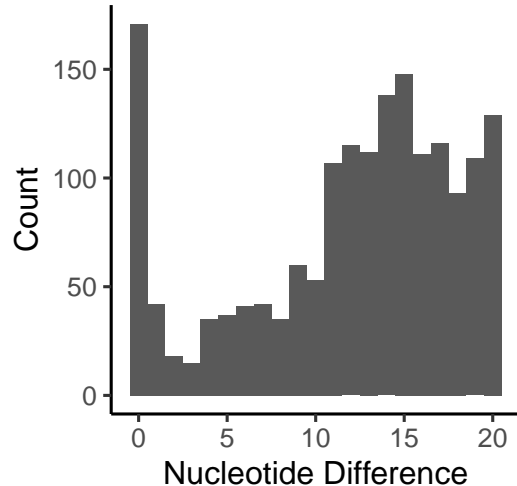
IGHV3-9*01

8752 sequences assigned
805 (9.2%) exact matches, in which:
759 unique CDR3
7 unique J



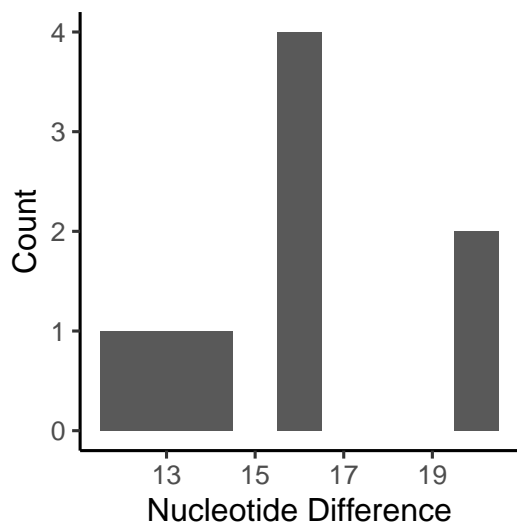
IGHV3-13*01

2613 sequences assigned
171 (6.5%) exact matches, in which:
124 unique CDR3
6 unique J



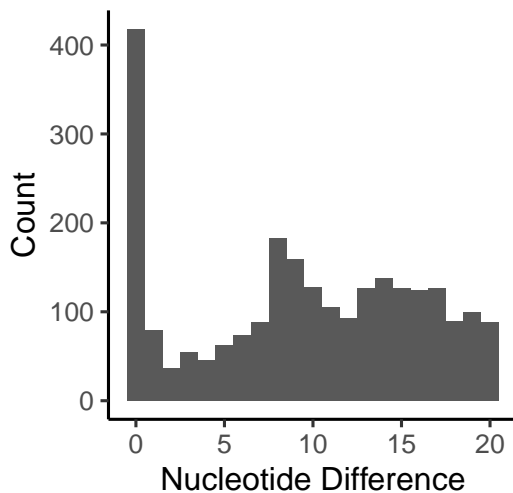
IGHV2-70D*14

23 sequences assigned
No exact matches.



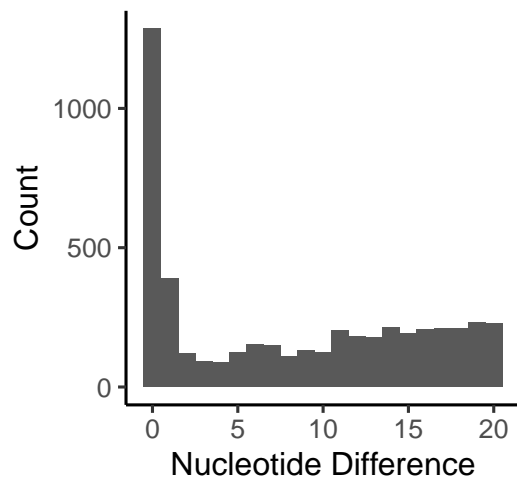
IGHV3-11*01

4785 sequences assigned
418 (8.7%) exact matches, in which:
393 unique CDR3
7 unique J



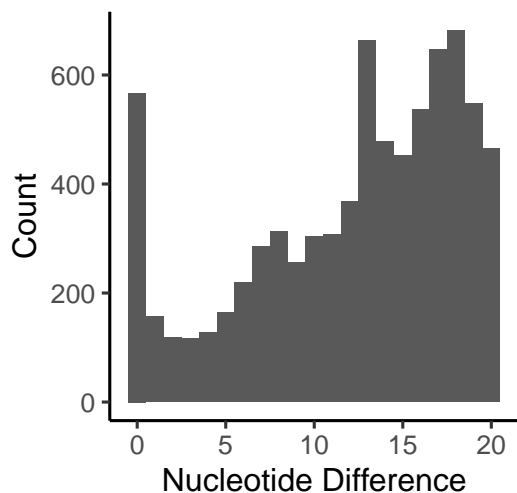
IGHV3-15*01

7927 sequences assigned
1286 (16.2%) exact matches, in which:
488 unique CDR3
7 unique J



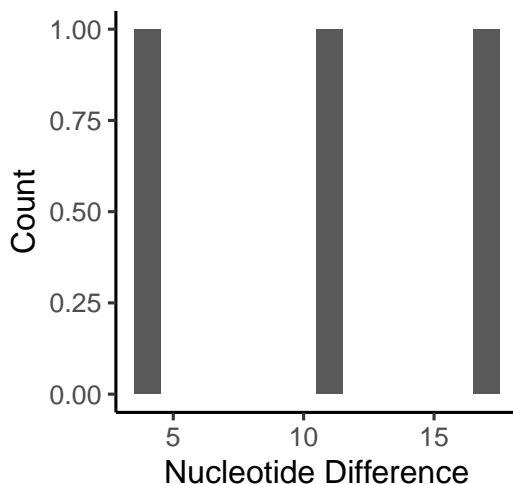
IGHV3-7*01

15813 sequences assigned
567 (3.6%) exact matches, in which:
523 unique CDR3
7 unique J



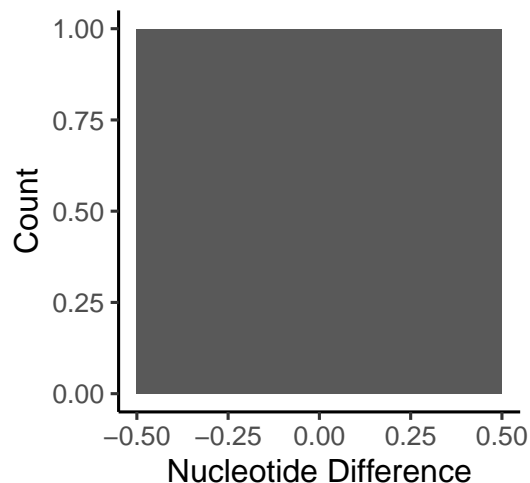
IGHV3-11*06

4 sequences assigned
No exact matches.



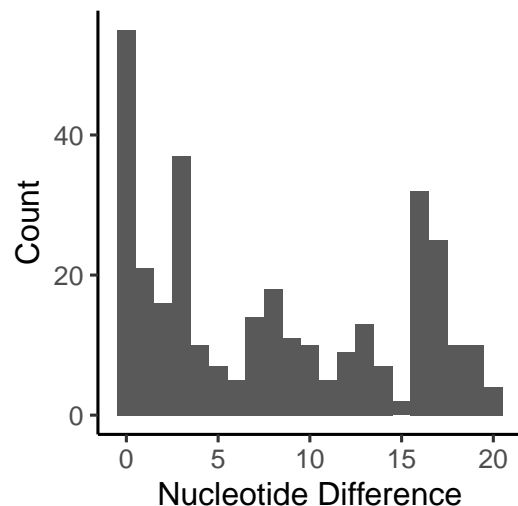
IGHV3-19*01

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



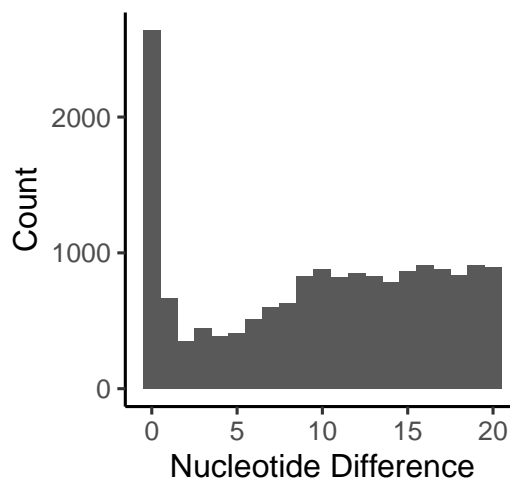
IGHV3-20*01

405 sequences assigned
55 (13.6%) exact matches, in which:
52 unique CDR3
6 unique J



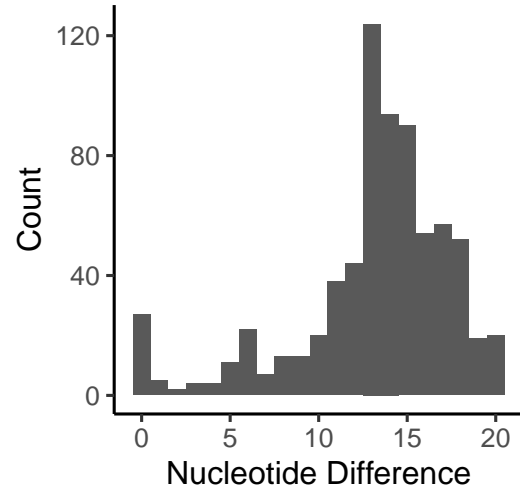
IGHV3-23*01

29519 sequences assigned
2638 (8.9%) exact matches, in which:
2220 unique CDR3
7 unique J



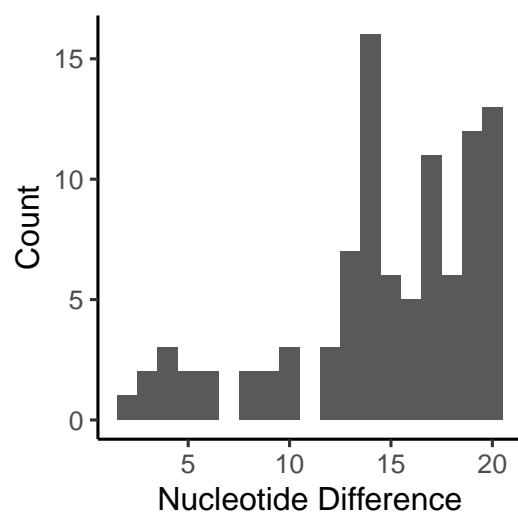
IGHV3-30*03

1606 sequences assigned
27 (1.7%) exact matches, in which:
19 unique CDR3
5 unique J



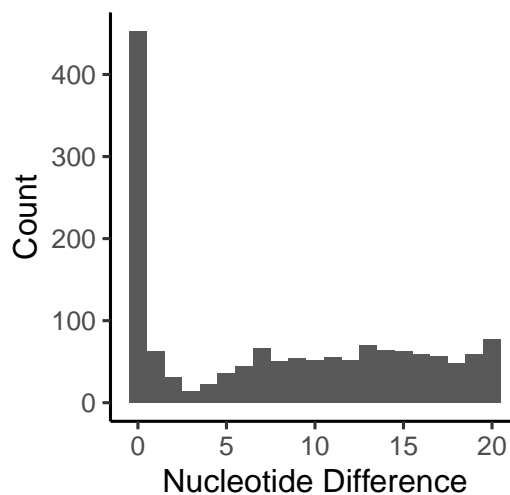
IGHV3-20*04

213 sequences assigned
No exact matches.



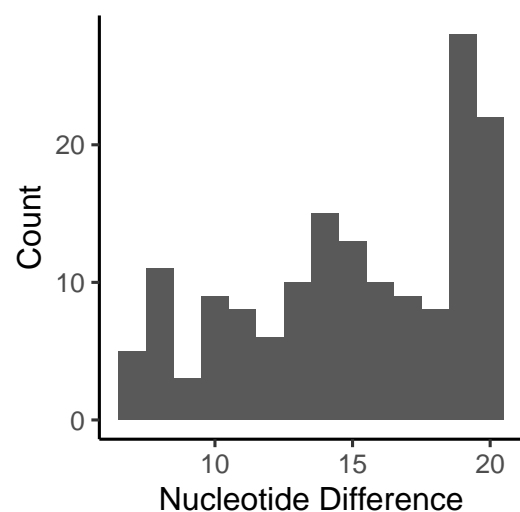
IGHV3-30-3*01

2431 sequences assigned
453 (18.6%) exact matches, in which:
450 unique CDR3
7 unique J



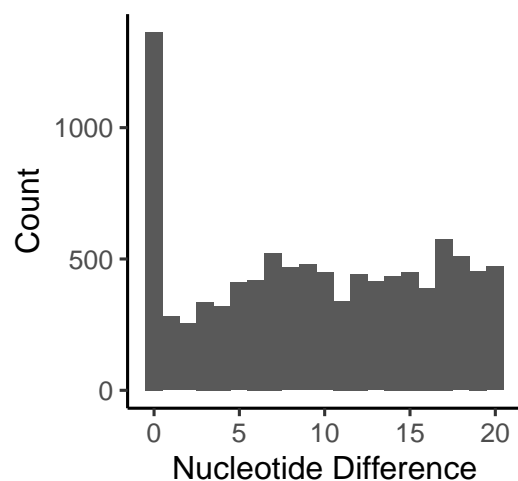
IGHV3-30*04

434 sequences assigned
No exact matches.



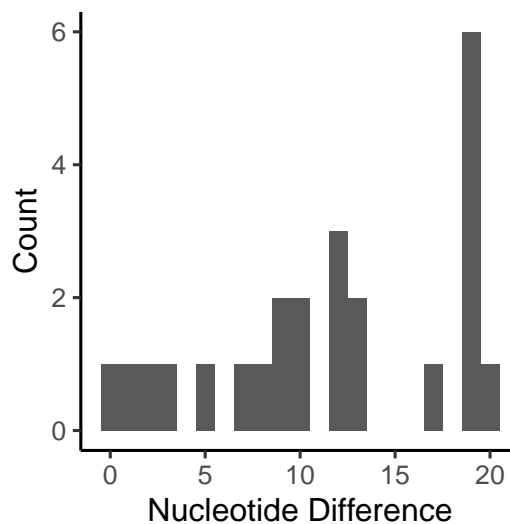
IGHV3-21*01

15603 sequences assigned
1364 (8.7%) exact matches, in which:
1224 unique CDR3
7 unique J



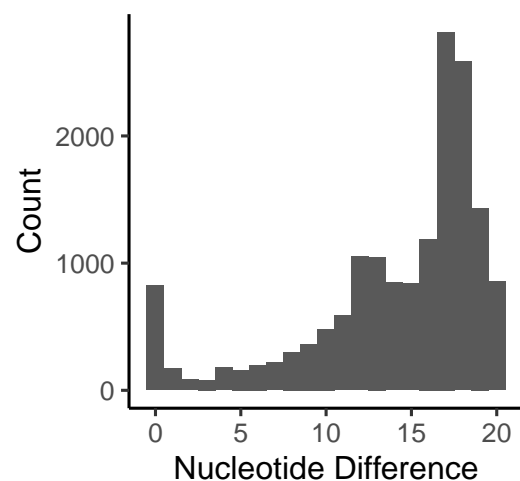
IGHV3-30-3*02

74 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



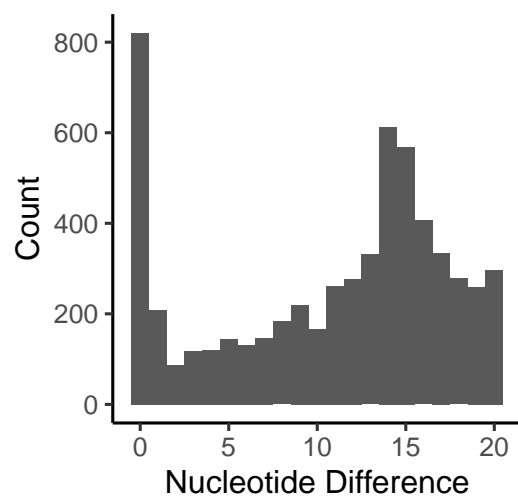
IGHV3-30*18

23089 sequences assigned
823 (3.6%) exact matches, in which:
790 unique CDR3
7 unique J



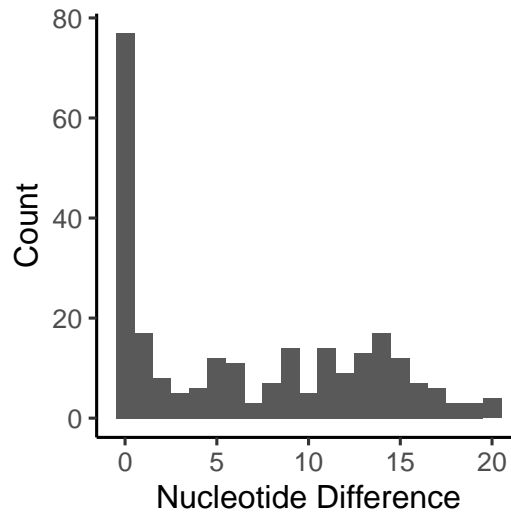
IGHV3–33*01

8470 sequences assigned
821 (9.7%) exact matches, in which:
734 unique CDR3
7 unique J



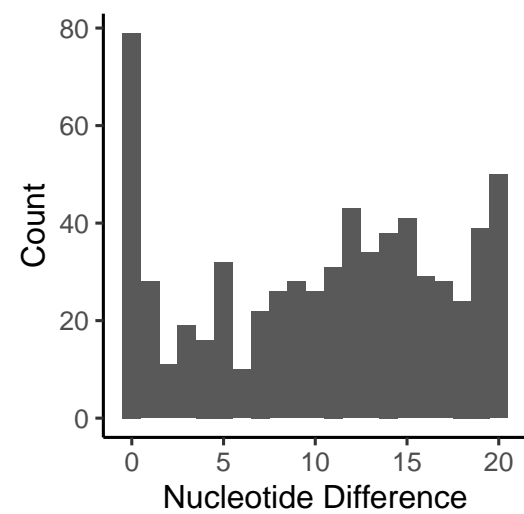
IGHV3–43*01

380 sequences assigned
77 (20.3%) exact matches, in which:
47 unique CDR3
6 unique J



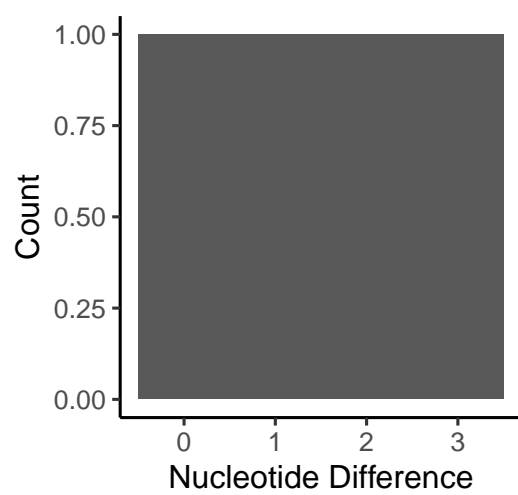
IGHV3–49*03

1113 sequences assigned
79 (7.1%) exact matches, in which:
74 unique CDR3
5 unique J



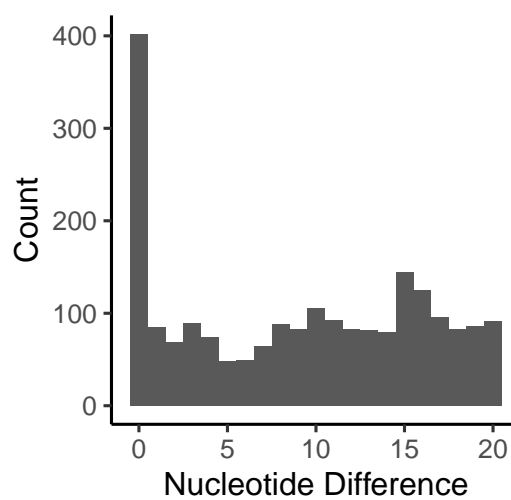
IGHV3–35*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



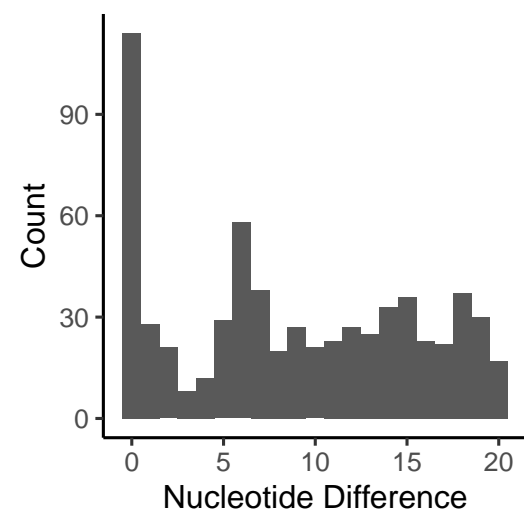
IGHV3–48*01

3314 sequences assigned
402 (12.1%) exact matches, in which:
361 unique CDR3
6 unique J



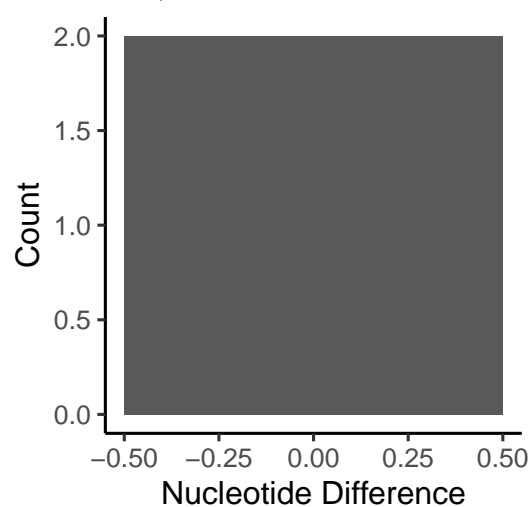
IGHV3–49*04

1150 sequences assigned
114 (9.9%) exact matches, in which:
95 unique CDR3
6 unique J



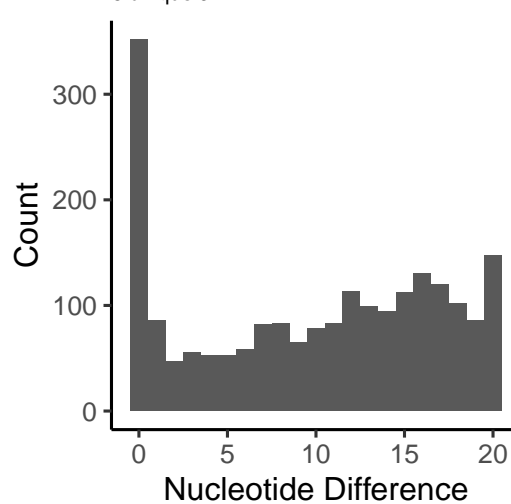
IGHV3–41*02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



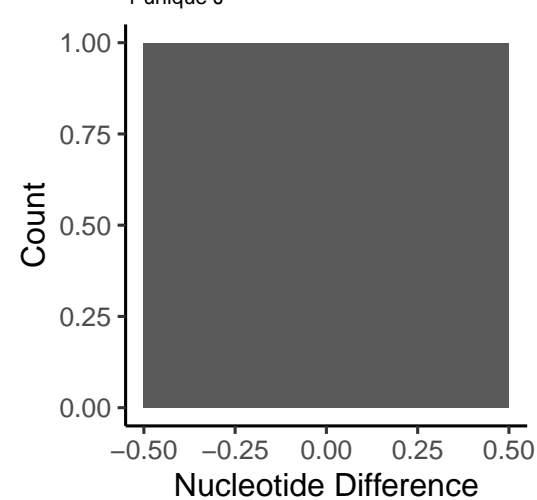
IGHV3–48*03

3350 sequences assigned
352 (10.5%) exact matches, in which:
337 unique CDR3
6 unique J



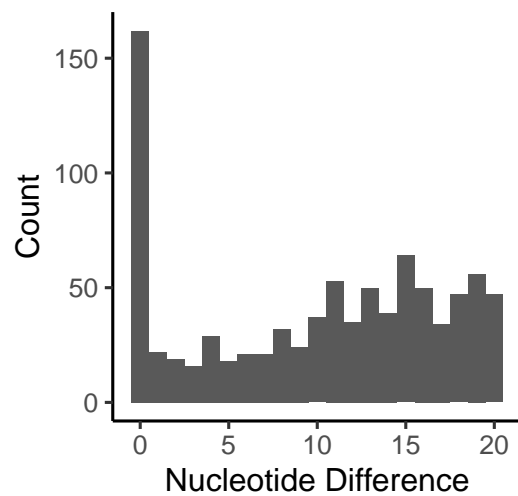
IGHV3–52*01

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



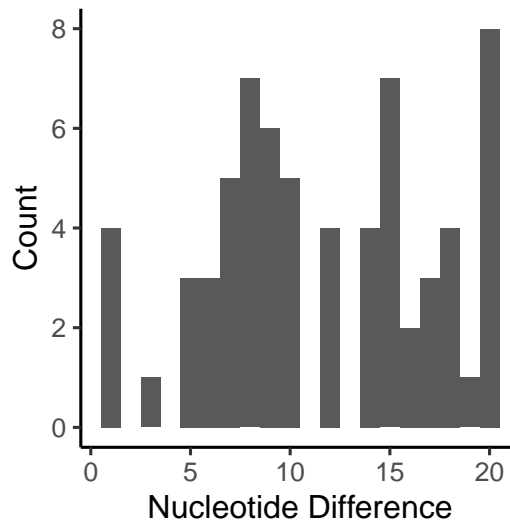
IGHV3–53*01

1674 sequences assigned
162 (9.7%) exact matches, in which:
156 unique CDR3
5 unique J



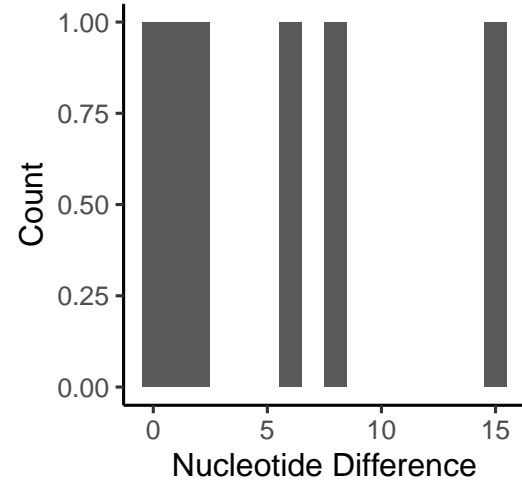
IGHV3–64*07

181 sequences assigned
No exact matches.



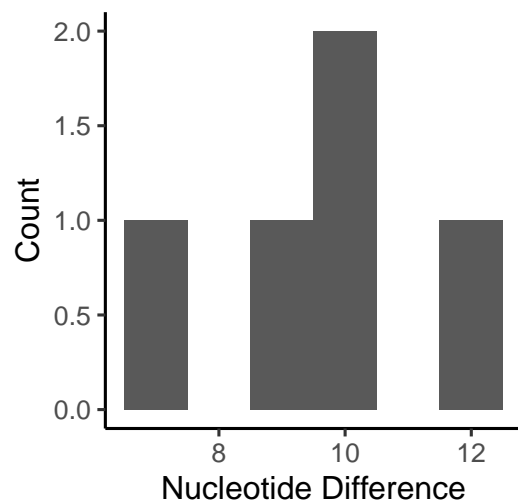
IGHV3–66*04

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



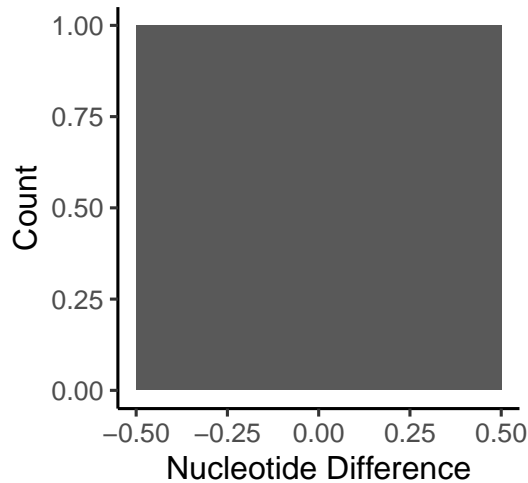
IGHV3–62*03

5 sequences assigned
No exact matches.



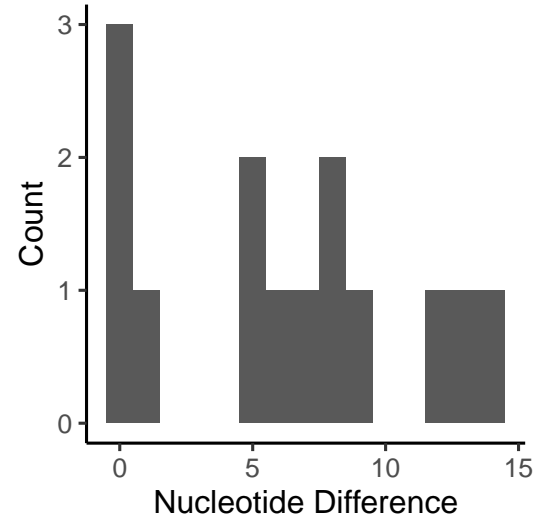
IGHV3–66*01

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



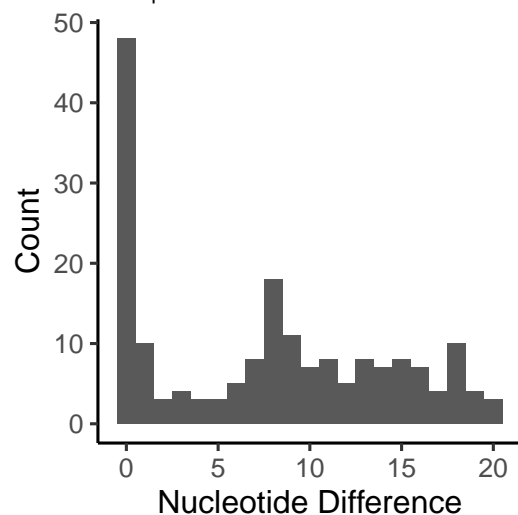
IGHV3–69–1*01

19 sequences assigned
3 (15.8%) exact matches, in which:
3 unique CDR3
2 unique J



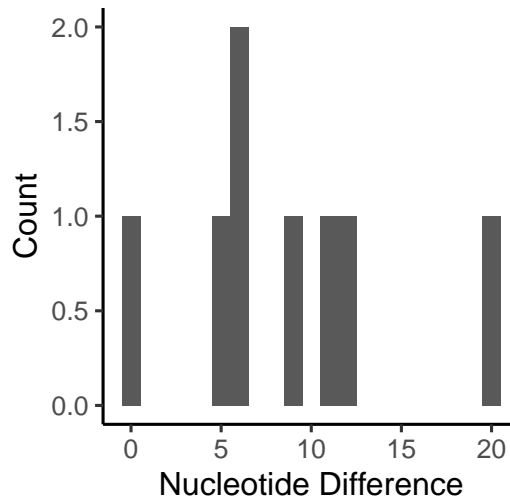
IGHV3–64*01

246 sequences assigned
48 (19.5%) exact matches, in which:
48 unique CDR3
6 unique J



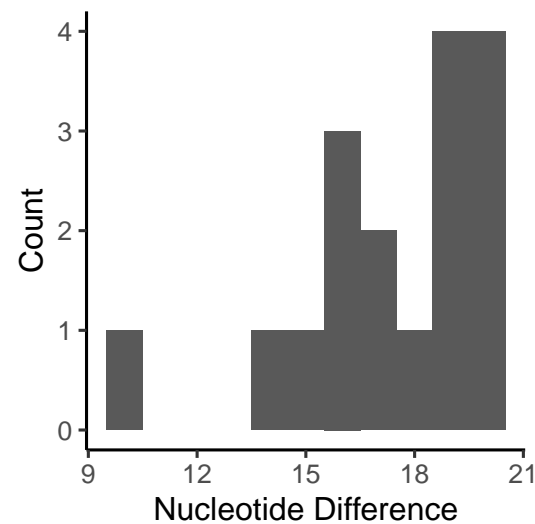
IGHV3–66*03

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



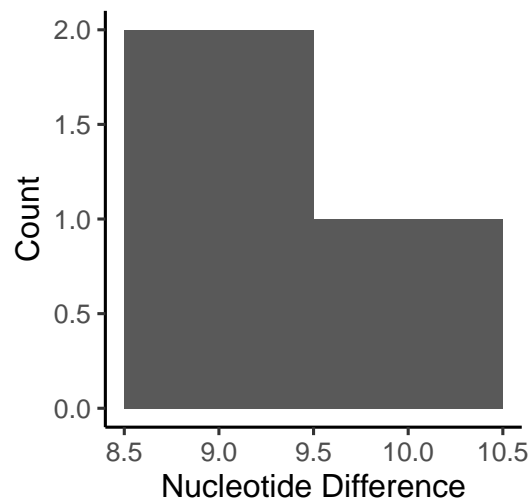
IGHV3–69–1*02

123 sequences assigned
No exact matches.



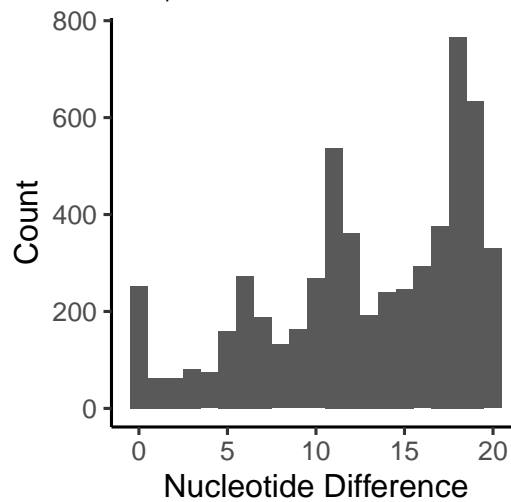
IGHV3-71*01

3 sequences assigned
No exact matches.



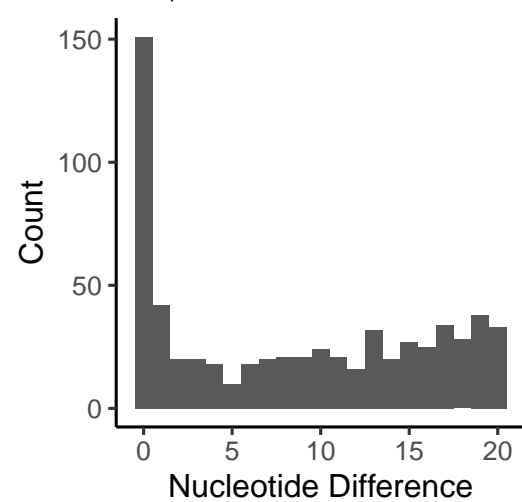
IGHV3-74*01

7528 sequences assigned
253 (3.4%) exact matches, in which:
224 unique CDR3
7 unique J



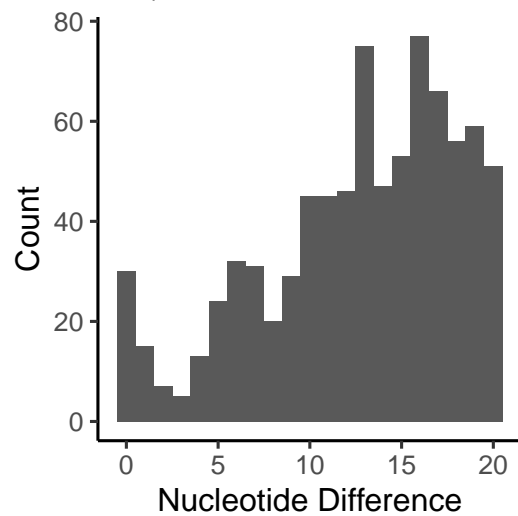
IGHV4-4*02

1141 sequences assigned
151 (13.2%) exact matches, in which:
147 unique CDR3
6 unique J



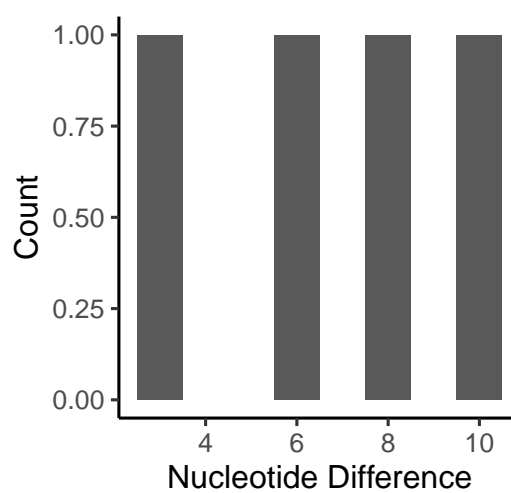
IGHV3-72*01

1260 sequences assigned
30 (2.4%) exact matches, in which:
28 unique CDR3
5 unique J



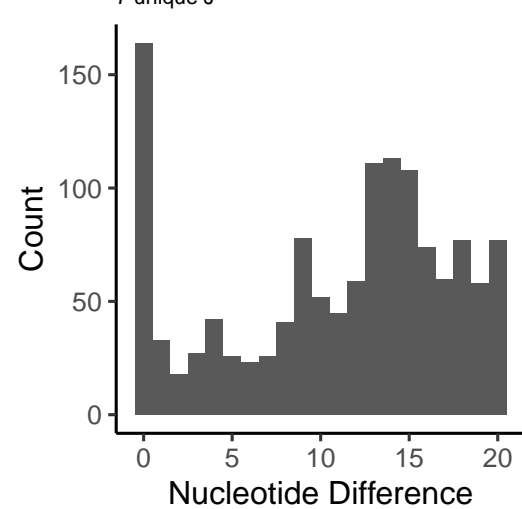
IGHV3-64D*08

4 sequences assigned
No exact matches.



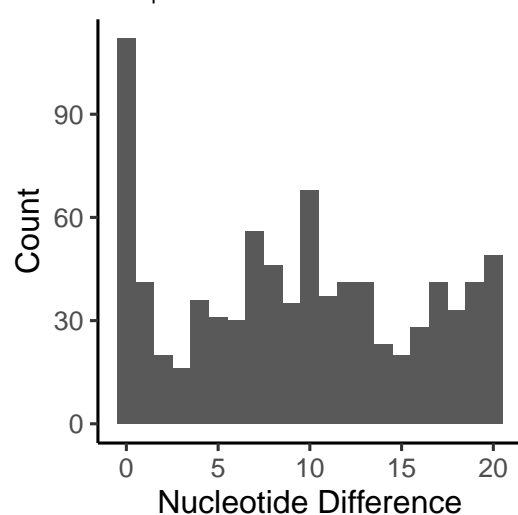
IGHV4-4*07

2137 sequences assigned
164 (7.7%) exact matches, in which:
152 unique CDR3
7 unique J



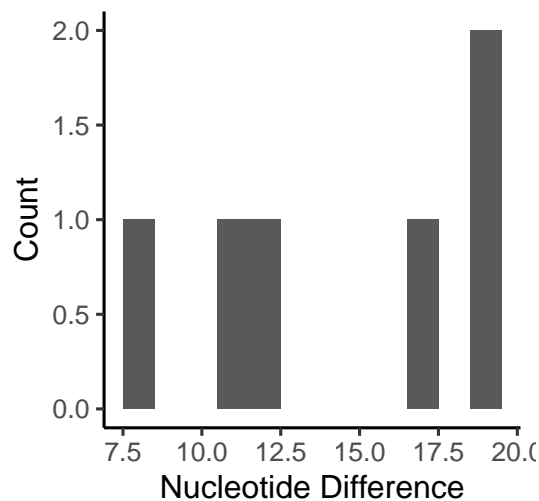
IGHV3-73*02

1538 sequences assigned
112 (7.3%) exact matches, in which:
97 unique CDR3
6 unique J



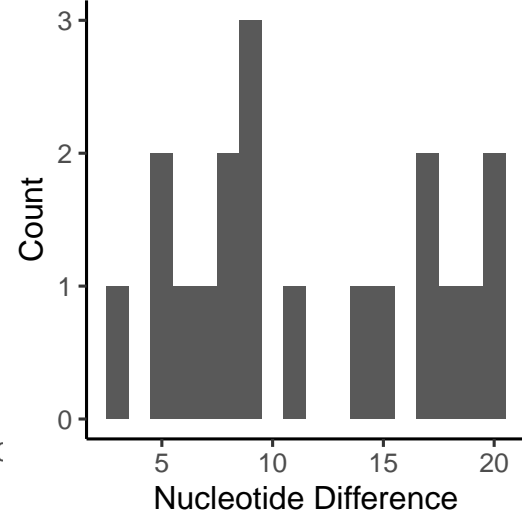
IGHV3-NL1*01

6 sequences assigned
No exact matches.



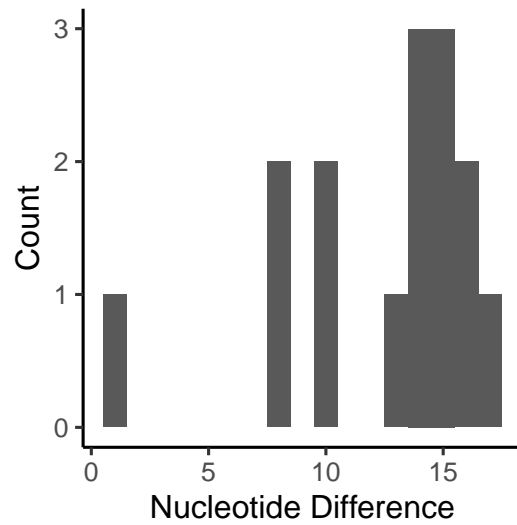
IGHV4-28*01

24 sequences assigned
No exact matches.



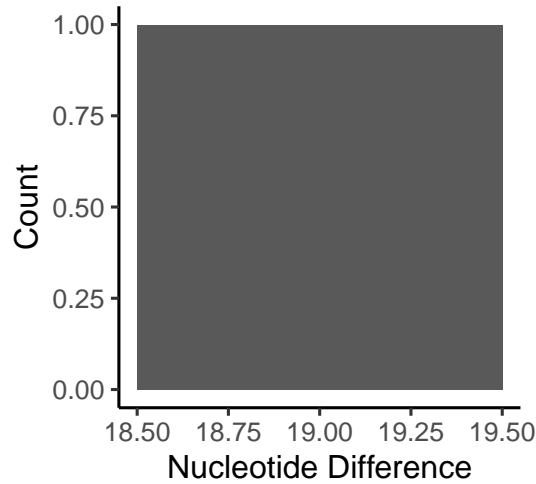
IGHV4-28*03

16 sequences assigned
No exact matches.



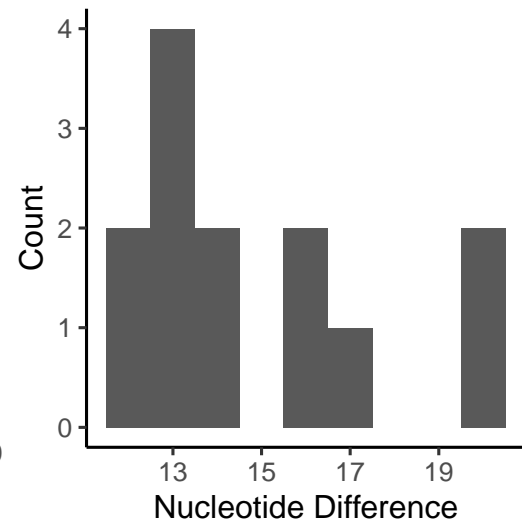
IGHV4-30-2*04

3 sequences assigned
No exact matches.



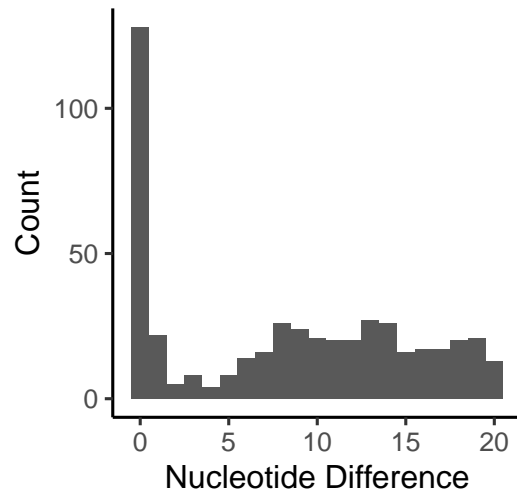
IGHV4-38-2*02

21 sequences assigned
No exact matches.



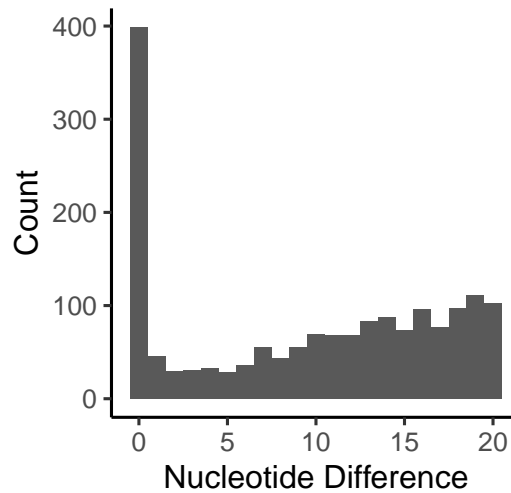
IGHV4-30-4*01

732 sequences assigned
128 (17.5%) exact matches, in which:
109 unique CDR3
5 unique J



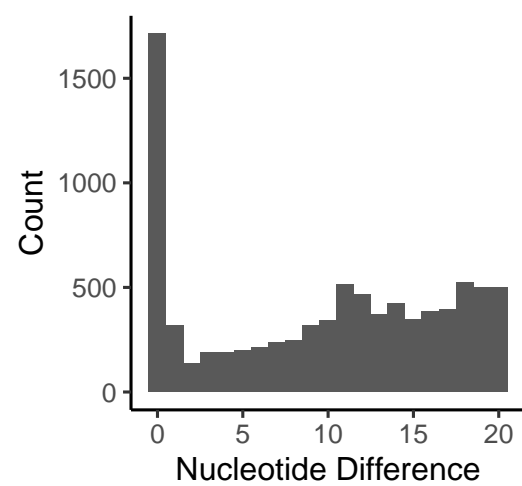
IGHV4-31*03

3393 sequences assigned
399 (11.8%) exact matches, in which:
388 unique CDR3
7 unique J



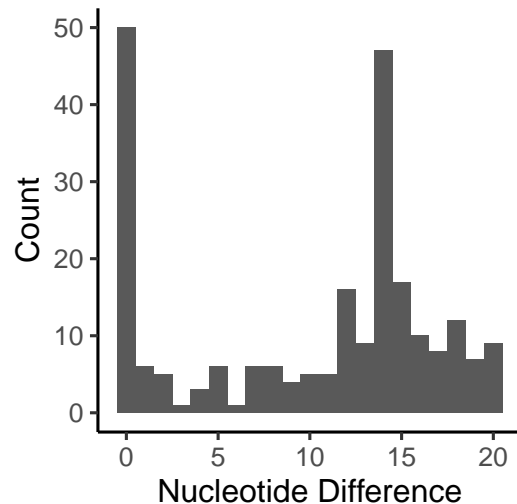
IGHV4-39*01

15695 sequences assigned
1713 (10.9%) exact matches, in which:
1622 unique CDR3
7 unique J



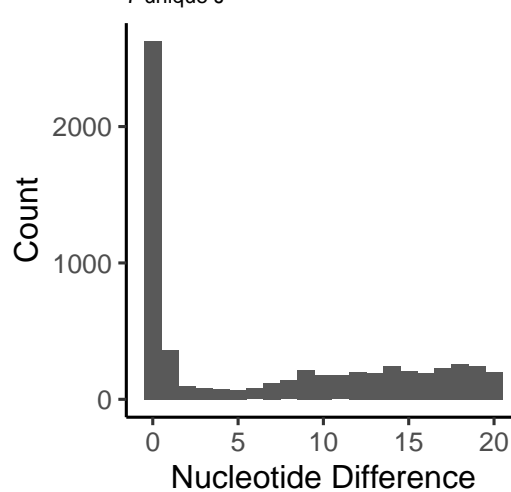
IGHV4-30-2*01

380 sequences assigned
50 (13.2%) exact matches, in which:
50 unique CDR3
5 unique J



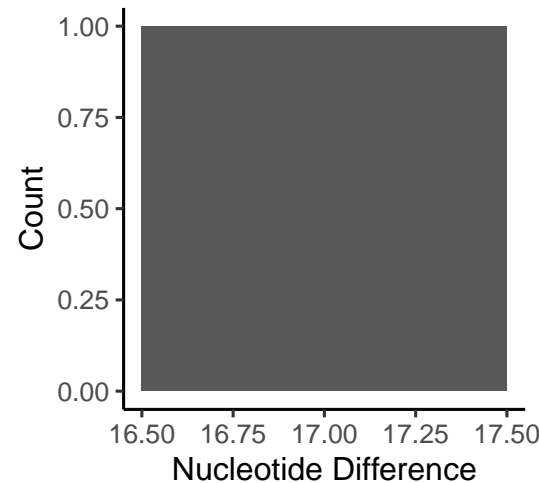
IGHV4-34*01

9154 sequences assigned
2627 (28.7%) exact matches, in which:
2583 unique CDR3
7 unique J



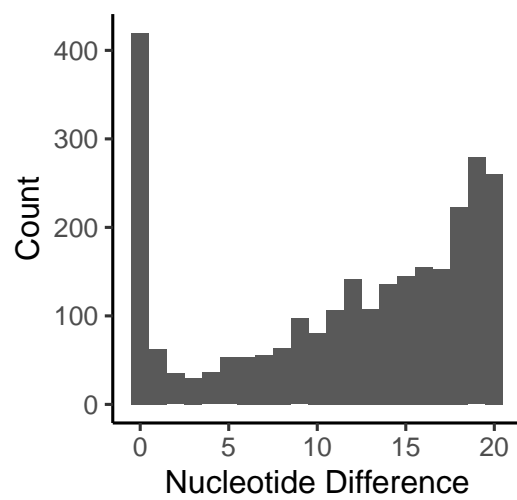
IGHV4-55*08

1 sequences assigned
No exact matches.



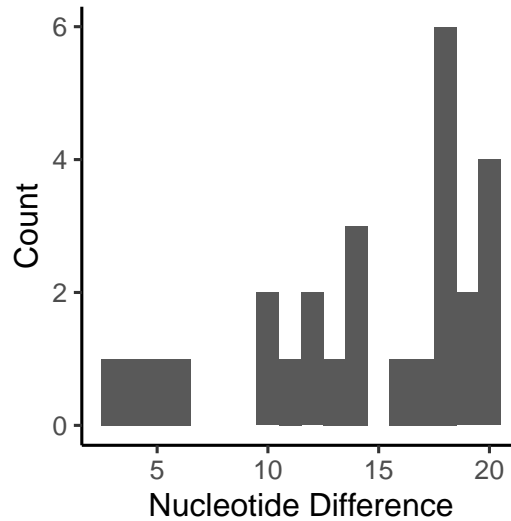
IGHV4–59*01

5290 sequences assigned
420 (7.9%) exact matches, in which:
405 unique CDR3
7 unique J



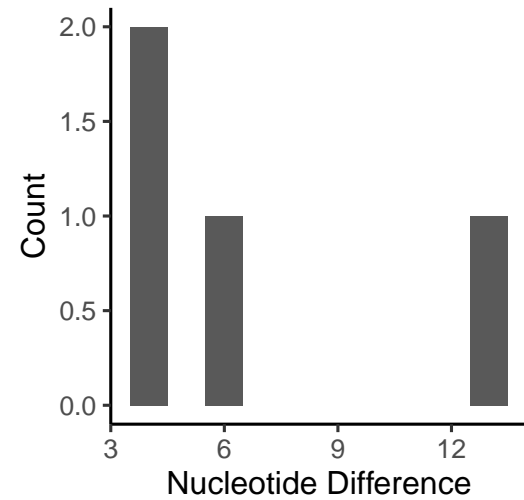
IGHV4–61*08

83 sequences assigned
No exact matches.



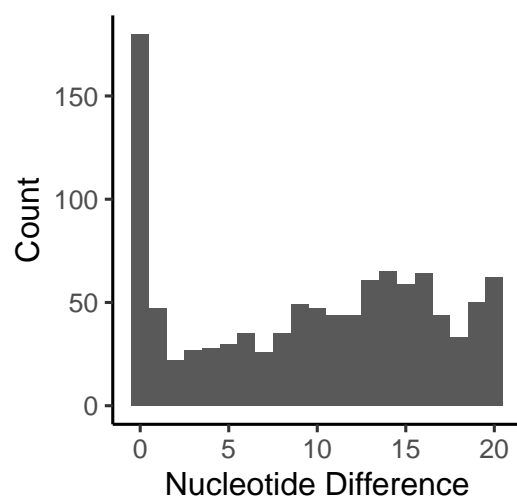
IGHV4/OR15–8*02

9 sequences assigned
No exact matches.



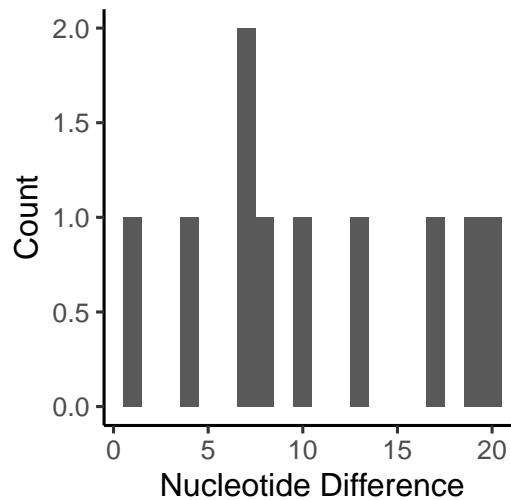
IGHV4–59*08

1948 sequences assigned
180 (9.2%) exact matches, in which:
173 unique CDR3
7 unique J



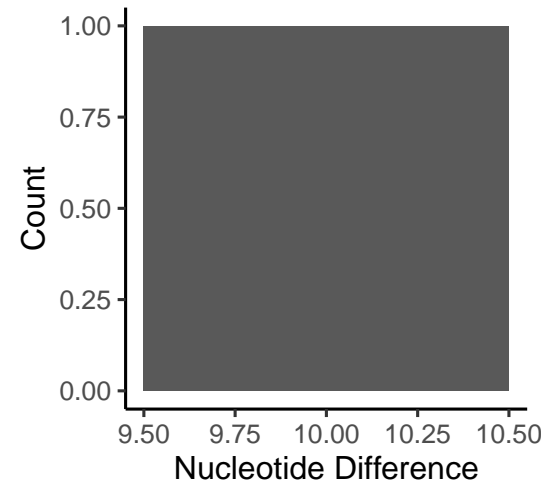
IGHV1/OR15–1*04

11 sequences assigned
No exact matches.



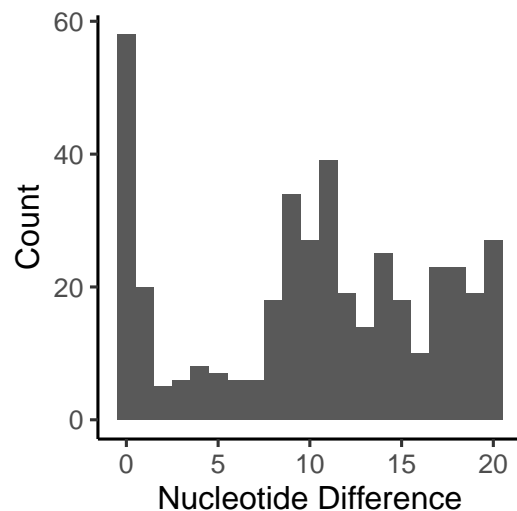
IGHV4/OR15–8*03

1 sequences assigned
No exact matches.



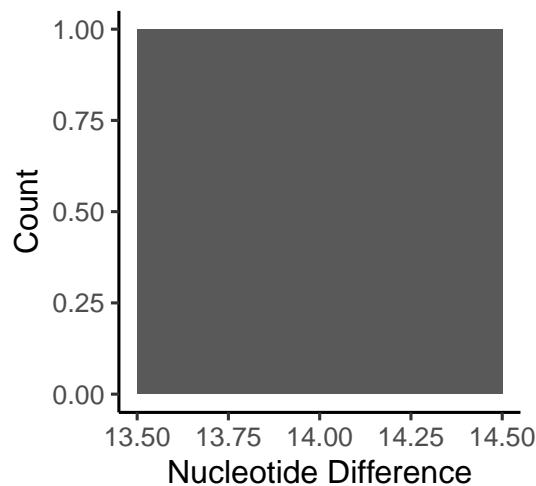
IGHV4–61*01

672 sequences assigned
58 (8.6%) exact matches, in which:
57 unique CDR3
6 unique J



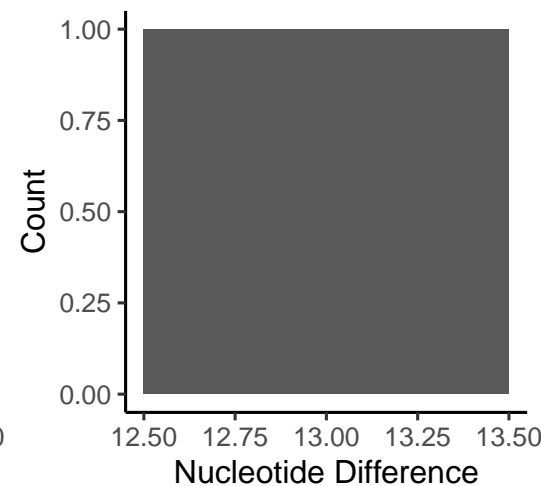
IGHV1/OR15–2*01

1 sequences assigned
No exact matches.



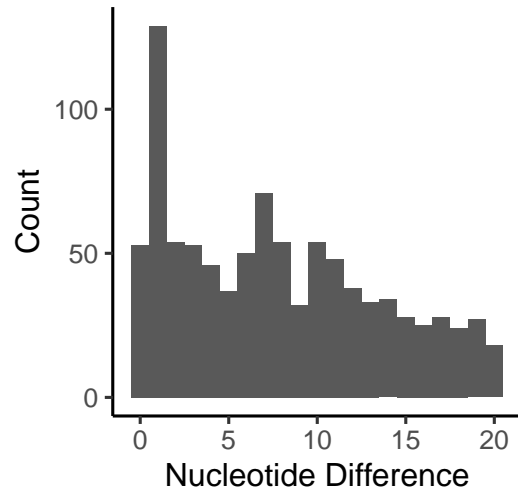
IGHV5–10–1*04

1 sequences assigned
No exact matches.



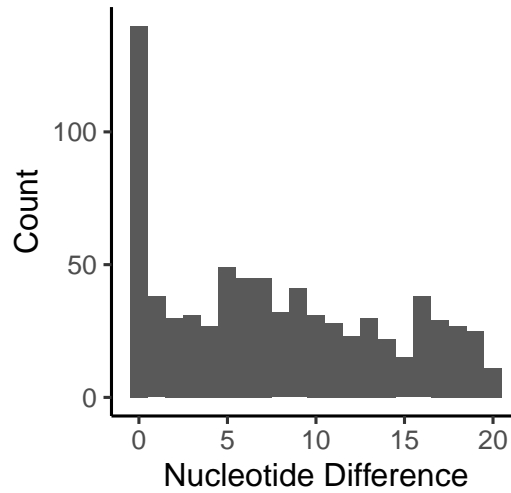
IGHV5–51*01

1142 sequences assigned
53 (4.6%) exact matches, in which:
50 unique CDR3
6 unique J



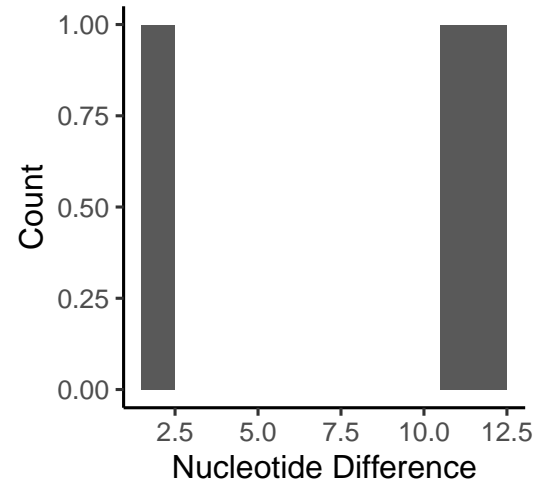
IGHV6–1*01

1182 sequences assigned
140 (11.8%) exact matches, in which:
124 unique CDR3
7 unique J



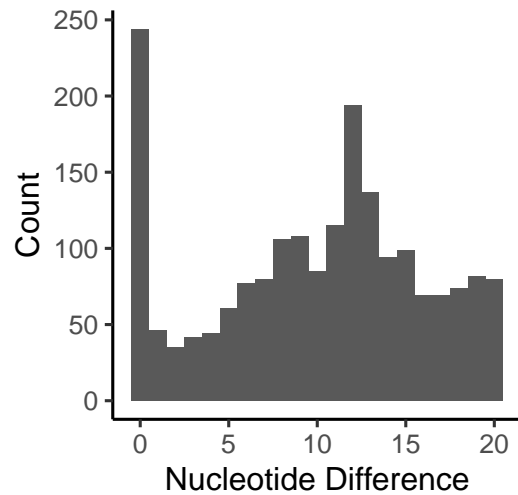
IGHV3/OR16–12*01

3 sequences assigned
No exact matches.



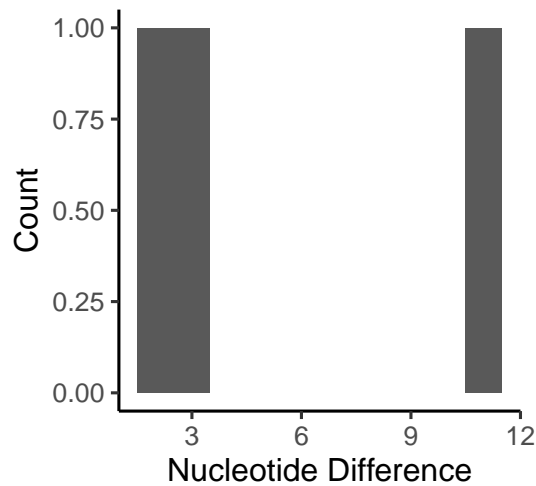
IGHV5–51*03

2840 sequences assigned
244 (8.6%) exact matches, in which:
241 unique CDR3
7 unique J



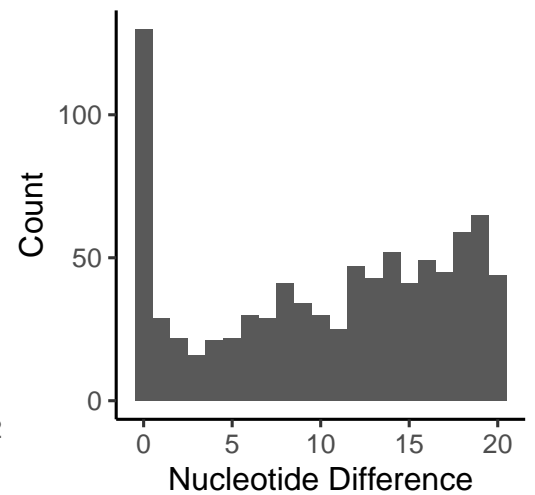
IGHV3/OR16–8*01

3 sequences assigned
No exact matches.



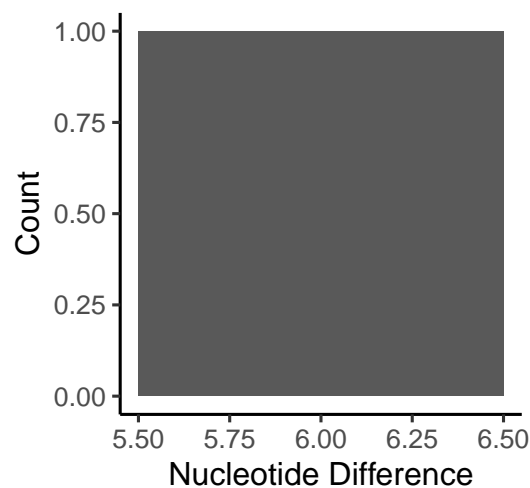
IGHV7–4–1*02

1351 sequences assigned
130 (9.6%) exact matches, in which:
129 unique CDR3
5 unique J



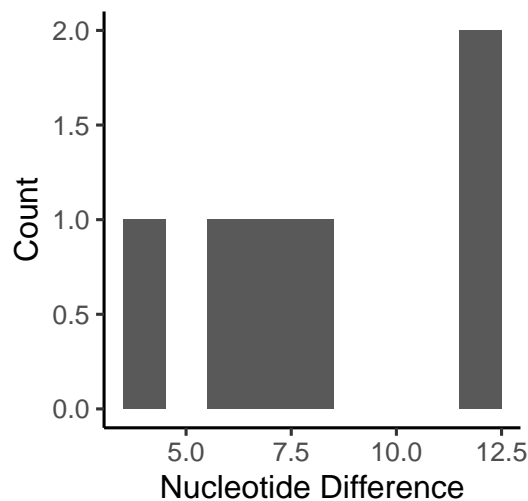
IGHV5–78*01

1 sequences assigned
No exact matches.



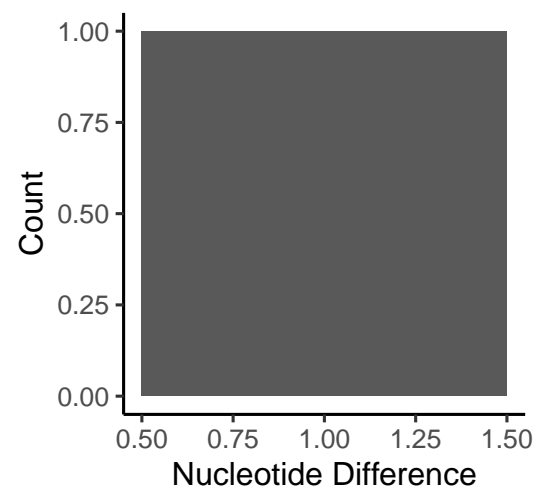
IGHV3/OR16–9*01

6 sequences assigned
No exact matches.

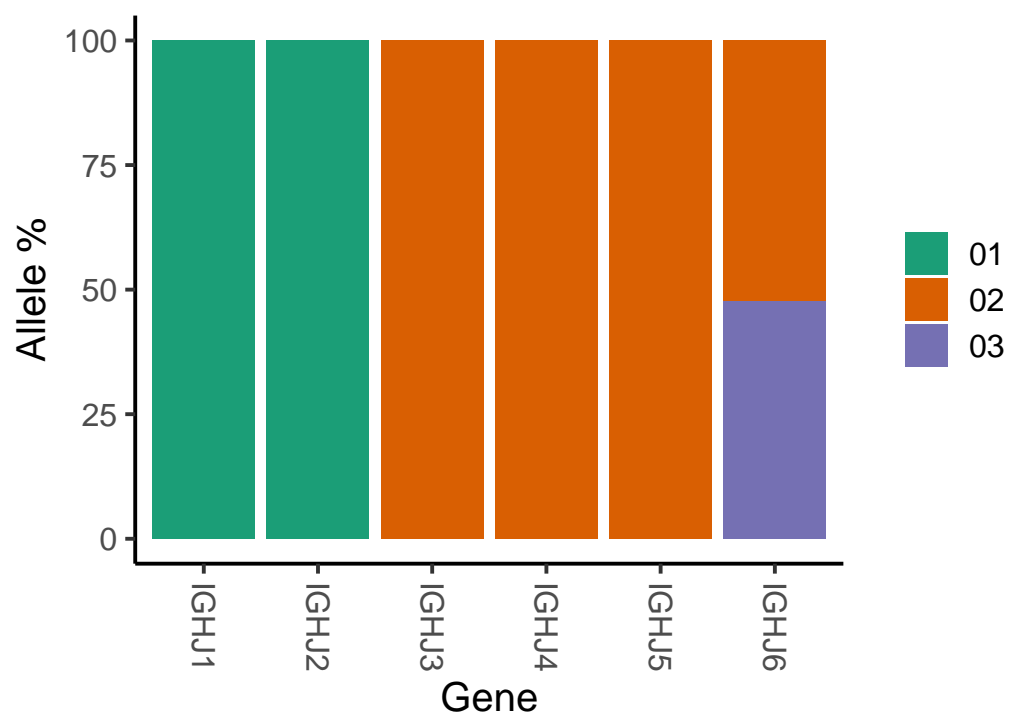


IGHV7–81*01

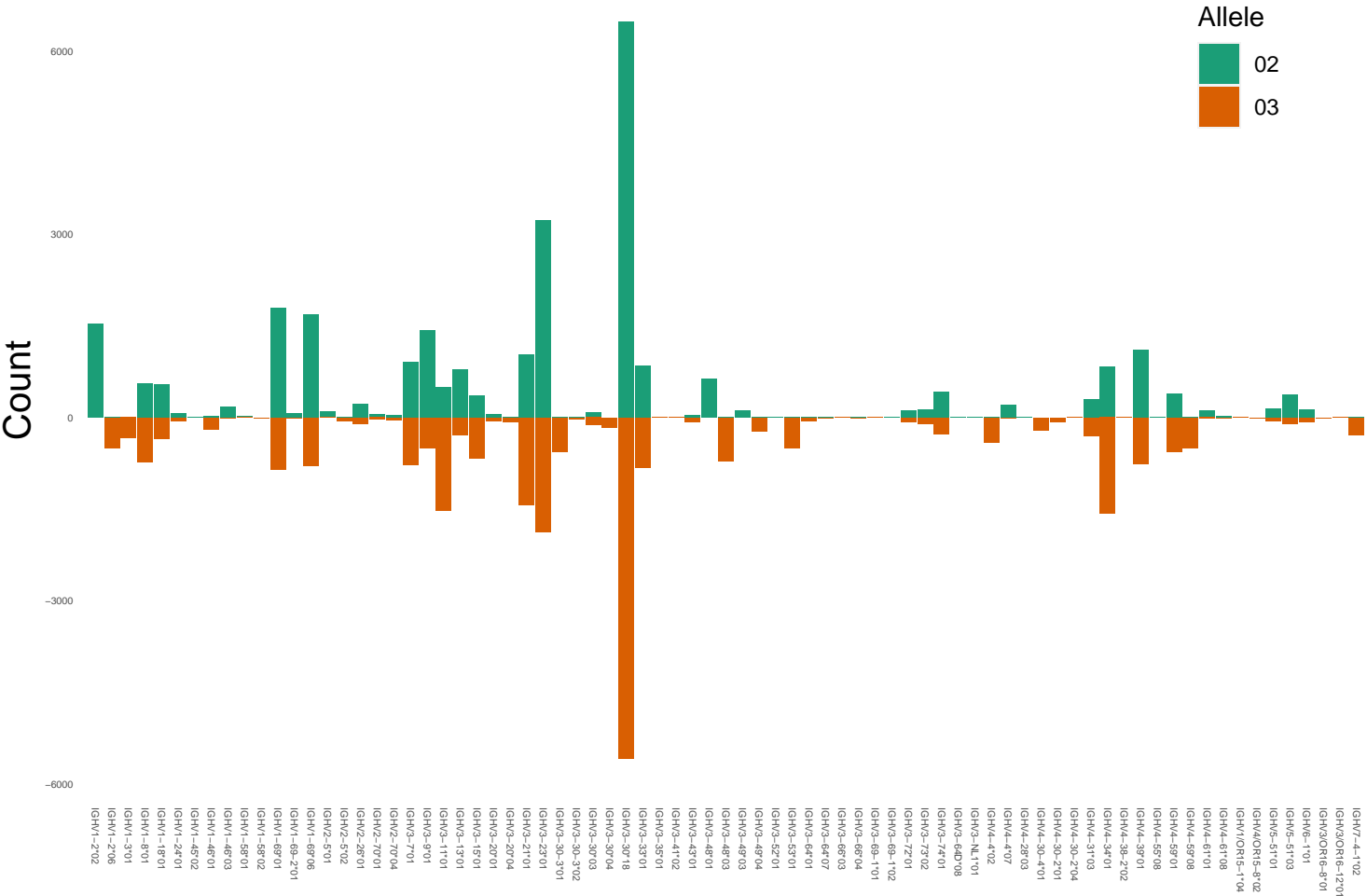
1 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.