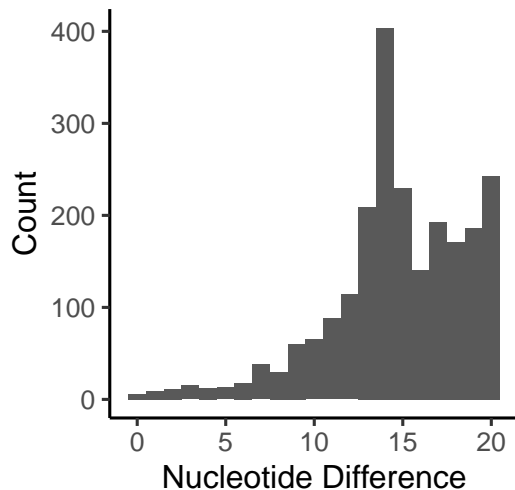


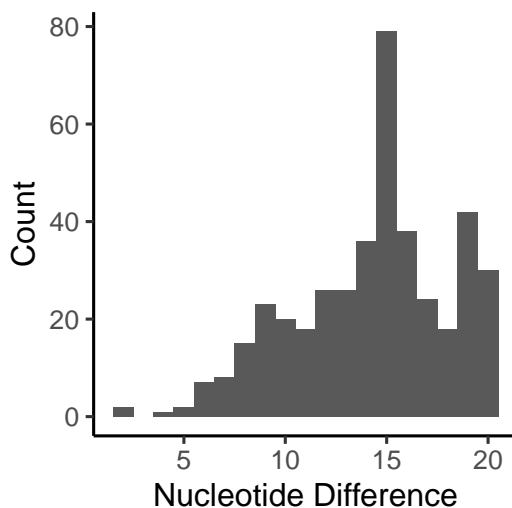
IGHV1-2*02

4235 sequences assigned
6 (0.1%) exact matches, in which:
5 unique CDR3
2 unique J



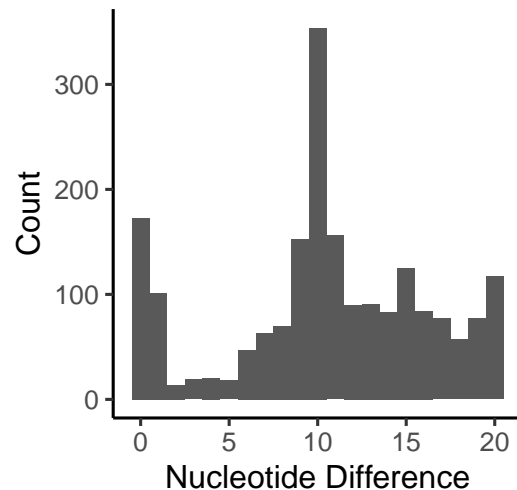
IGHV1-3*04

736 sequences assigned
No exact matches.



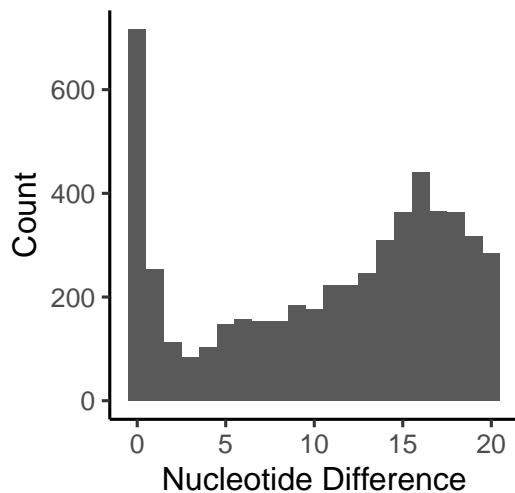
IGHV1-24*01

2333 sequences assigned
173 (7.4%) exact matches, in which:
83 unique CDR3
5 unique J



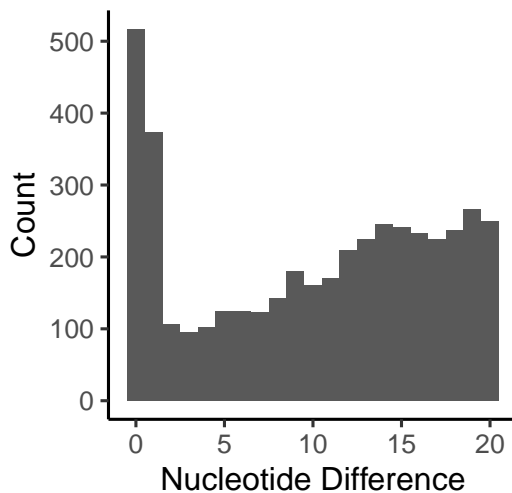
IGHV1-2*06

8796 sequences assigned
717 (8.2%) exact matches, in which:
352 unique CDR3
6 unique J



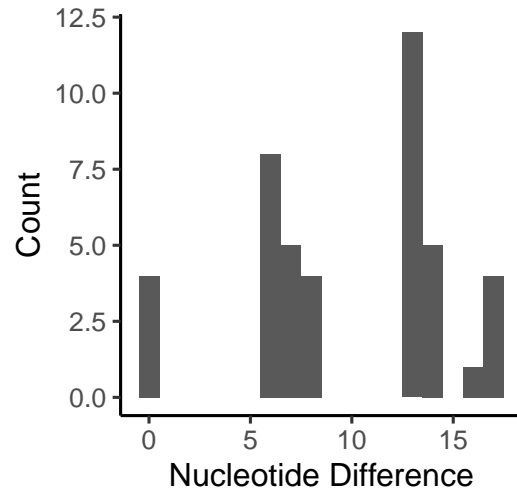
IGHV1-8*01

6874 sequences assigned
517 (7.5%) exact matches, in which:
270 unique CDR3
6 unique J



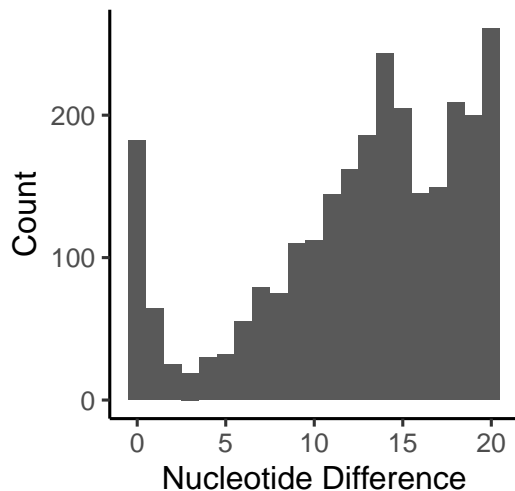
IGHV1-45*02

93 sequences assigned
4 (4.3%) exact matches, in which:
1 unique CDR3
1 unique J



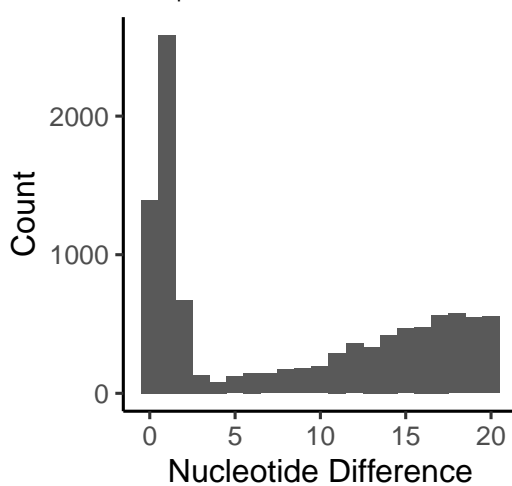
IGHV1-3*01

3772 sequences assigned
182 (4.8%) exact matches, in which:
99 unique CDR3
5 unique J



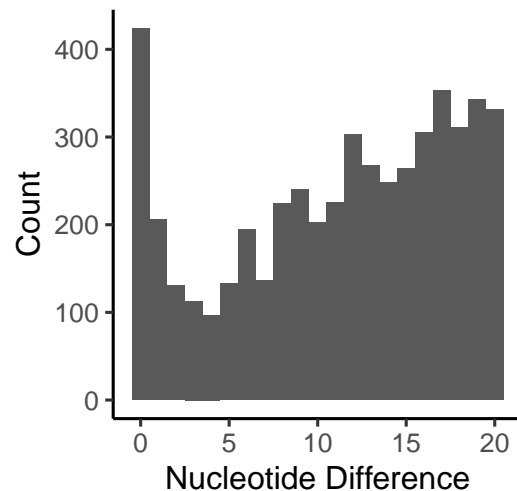
IGHV1-18*01

14583 sequences assigned
1395 (9.6%) exact matches, in which:
507 unique CDR3
5 unique J



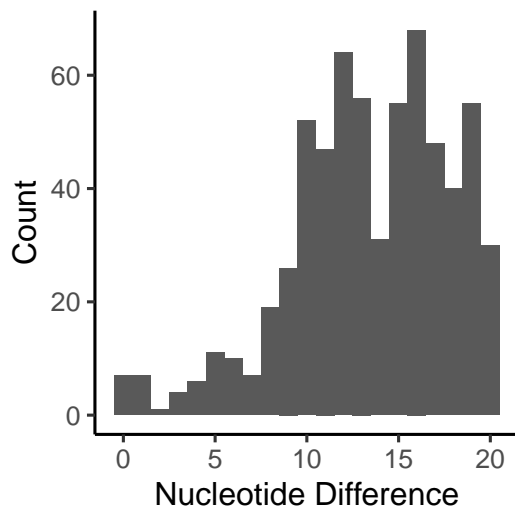
IGHV1-46*01

9035 sequences assigned
424 (4.7%) exact matches, in which:
238 unique CDR3
6 unique J



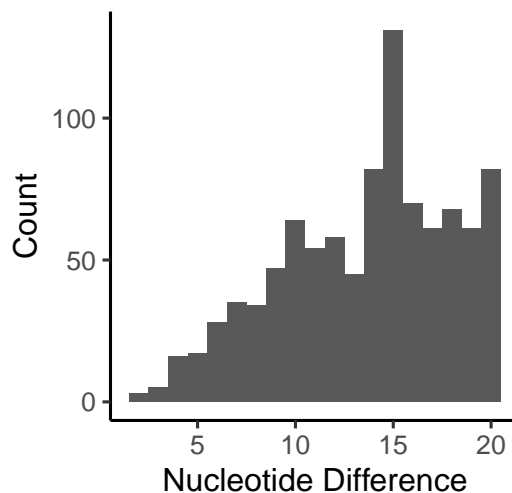
IGHV1-46*03

1554 sequences assigned
7 (0.5%) exact matches, in which:
3 unique CDR3
2 unique J



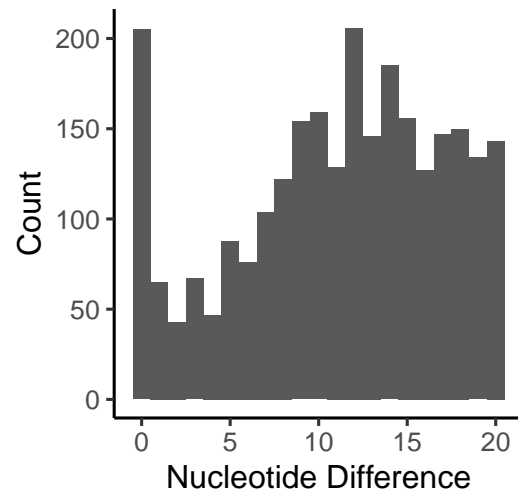
IGHV2-5*02

1542 sequences assigned
No exact matches.



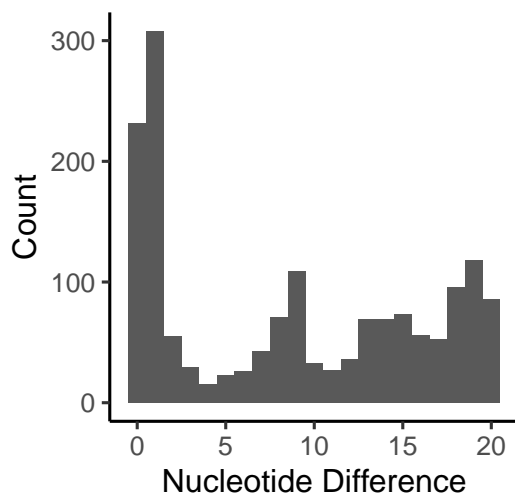
IGHV3-7*01

3400 sequences assigned
205 (6%) exact matches, in which:
125 unique CDR3
6 unique J



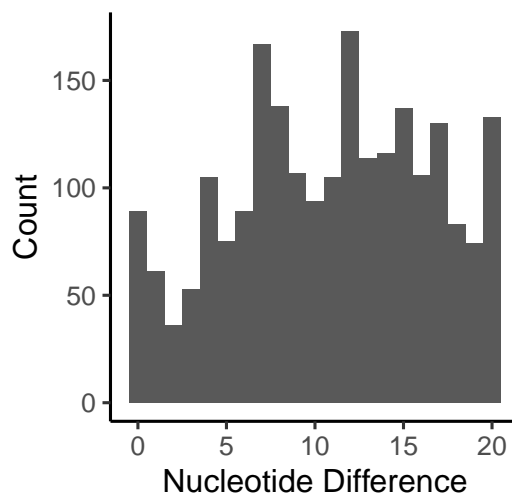
IGHV1-58*01

2699 sequences assigned
232 (8.6%) exact matches, in which:
108 unique CDR3
6 unique J



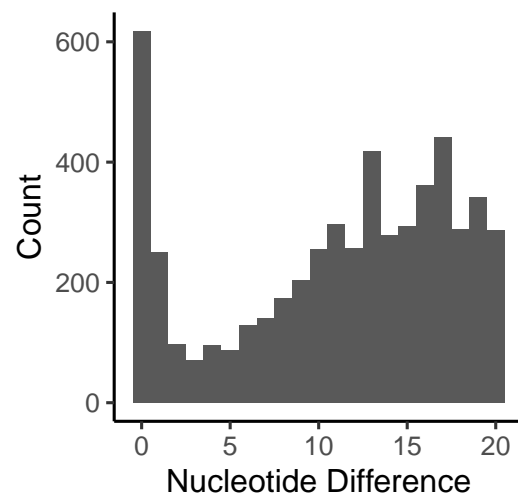
IGHV2-26*01

2704 sequences assigned
89 (3.3%) exact matches, in which:
66 unique CDR3
5 unique J



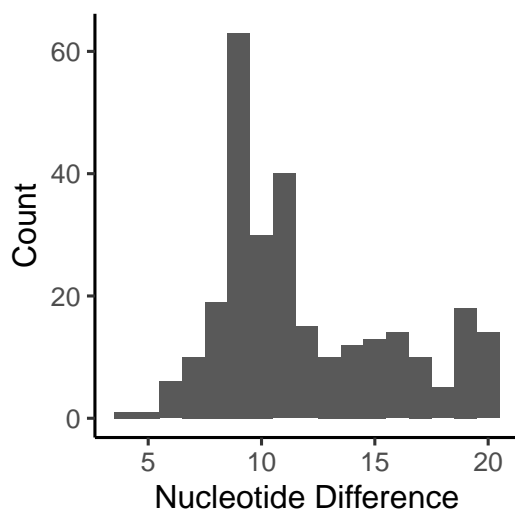
IGHV3-9*01

7144 sequences assigned
618 (8.7%) exact matches, in which:
336 unique CDR3
6 unique J



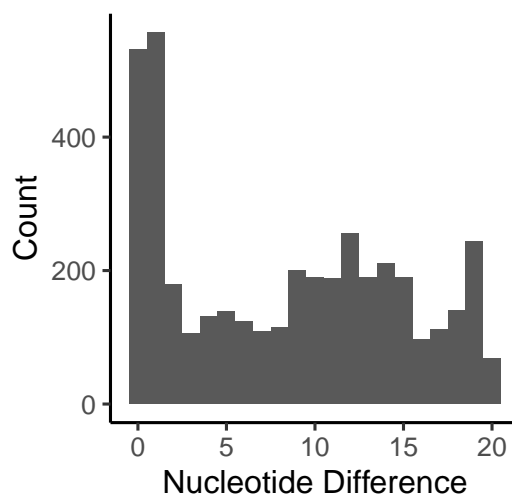
IGHV2-5*01

303 sequences assigned
No exact matches.



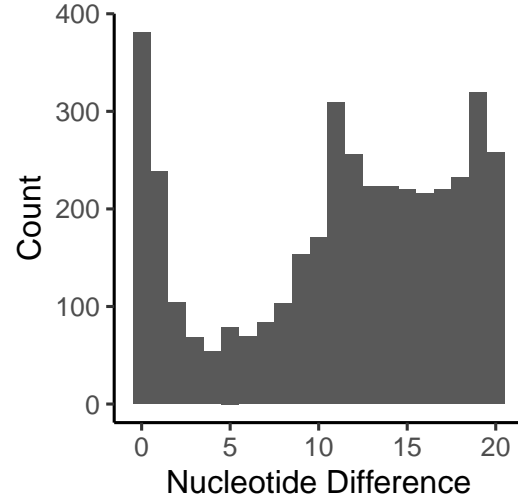
IGHV2-70*01

4476 sequences assigned
531 (11.9%) exact matches, in which:
291 unique CDR3
5 unique J



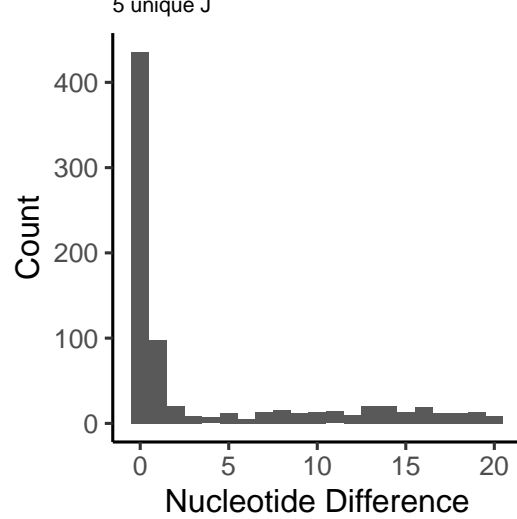
IGHV3-11*01

5818 sequences assigned
381 (6.5%) exact matches, in which:
189 unique CDR3
6 unique J



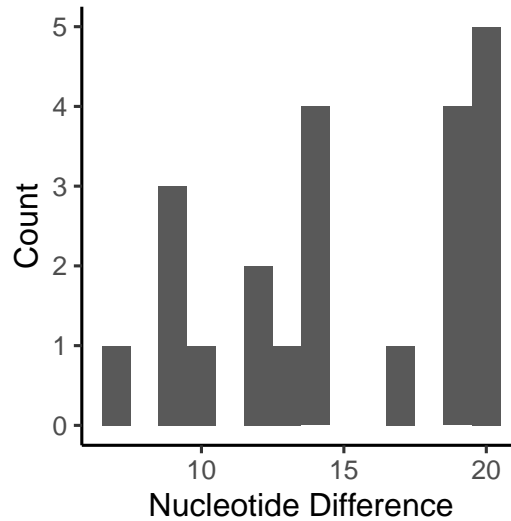
IGHV3-13*01

909 sequences assigned
436 (48%) exact matches, in which:
215 unique CDR3
5 unique J



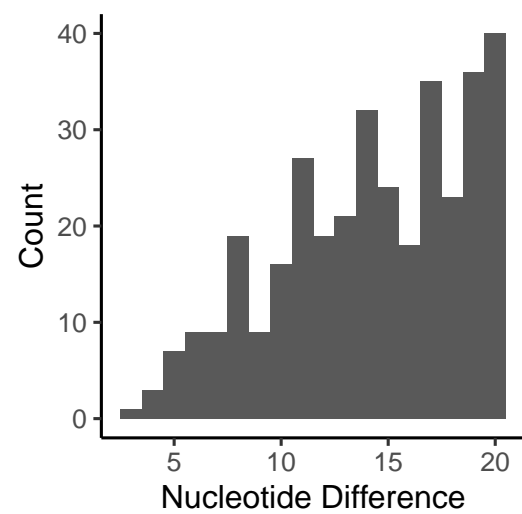
IGHV3-20*04

49 sequences assigned
No exact matches.



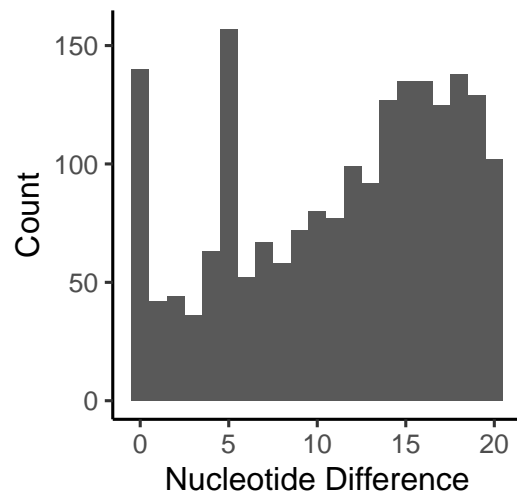
IGHV3-30-3*03

700 sequences assigned
No exact matches.



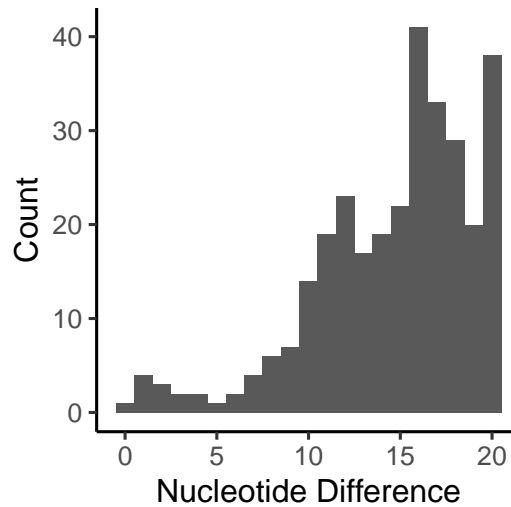
IGHV3-15*01

2918 sequences assigned
140 (4.8%) exact matches, in which:
89 unique CDR3
6 unique J



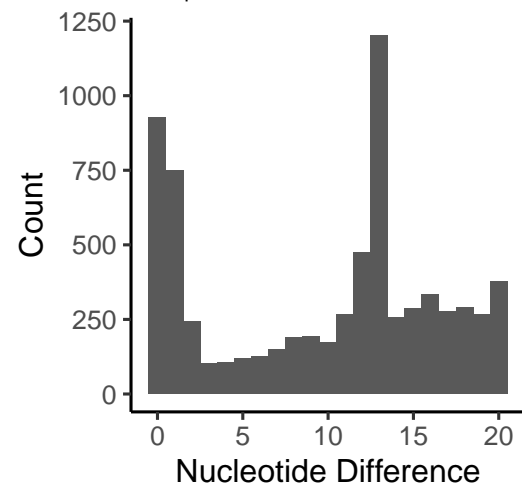
IGHV3-21*06

585 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



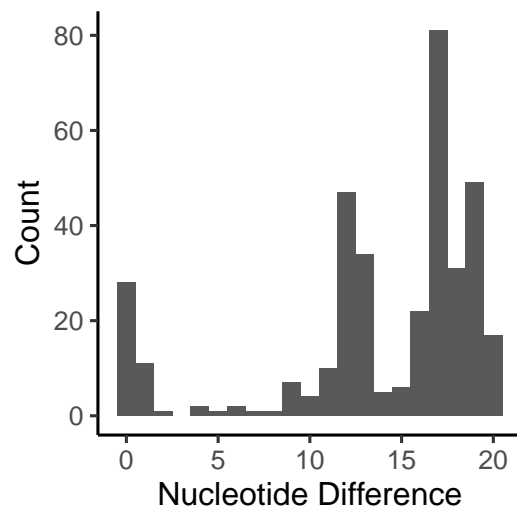
IGHV3-33*01

8609 sequences assigned
928 (10.8%) exact matches, in which:
444 unique CDR3
6 unique J



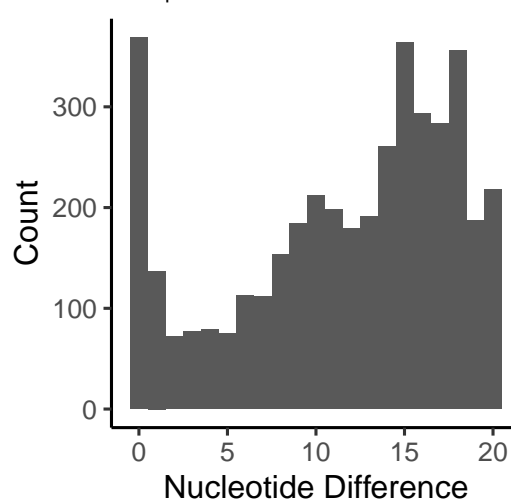
IGHV3-20*01

393 sequences assigned
28 (7.1%) exact matches, in which:
17 unique CDR3
4 unique J



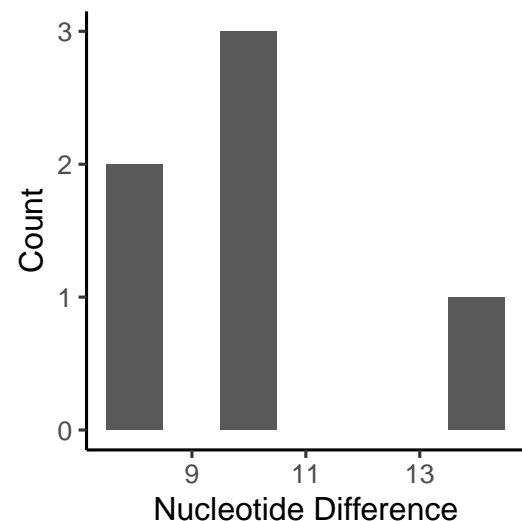
IGHV3-30-3*01

6279 sequences assigned
369 (5.9%) exact matches, in which:
211 unique CDR3
6 unique J



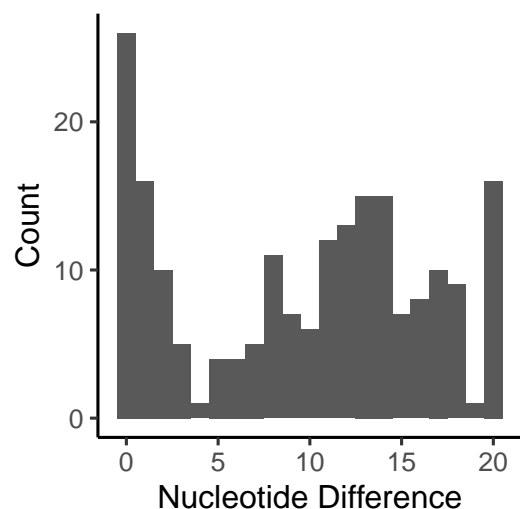
IGHV3-35*01

6 sequences assigned
No exact matches.



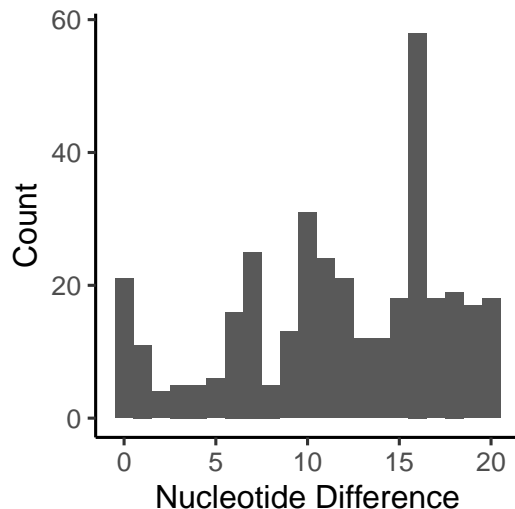
IGHV3-43*01

336 sequences assigned
26 (7.7%) exact matches, in which:
14 unique CDR3
3 unique J



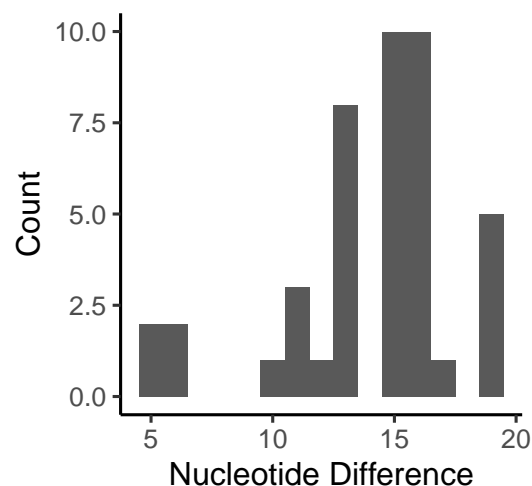
IGHV3-49*03

480 sequences assigned
21 (4.4%) exact matches, in which:
12 unique CDR3
3 unique J



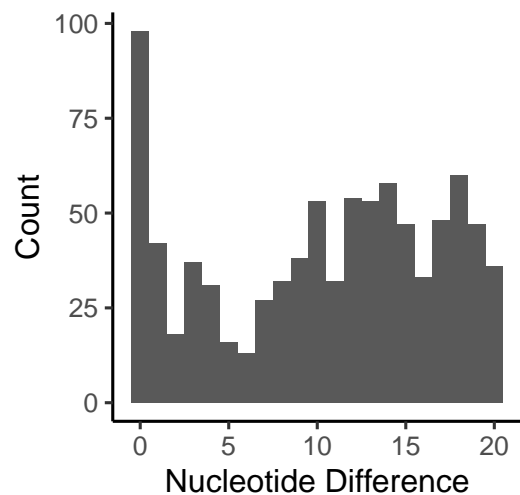
IGHV3-64*02

45 sequences assigned
No exact matches.



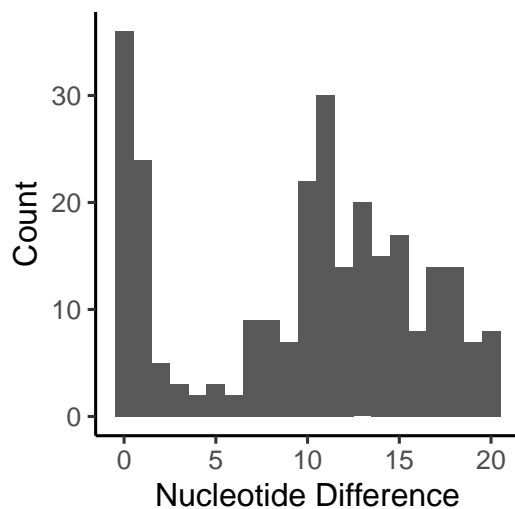
IGHV3-48*01

1214 sequences assigned
98 (8.1%) exact matches, in which:
66 unique CDR3
6 unique J



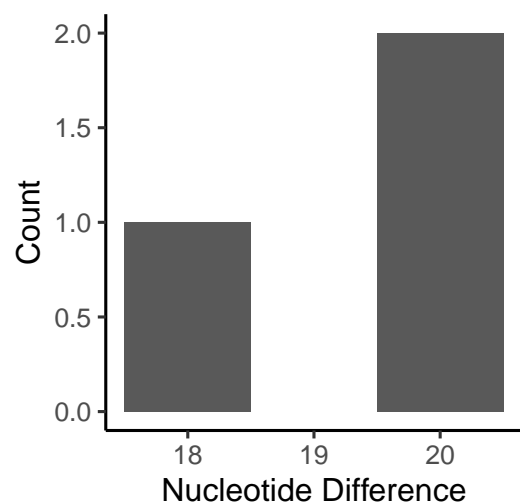
IGHV3-49*05

450 sequences assigned
36 (8%) exact matches, in which:
18 unique CDR3
4 unique J



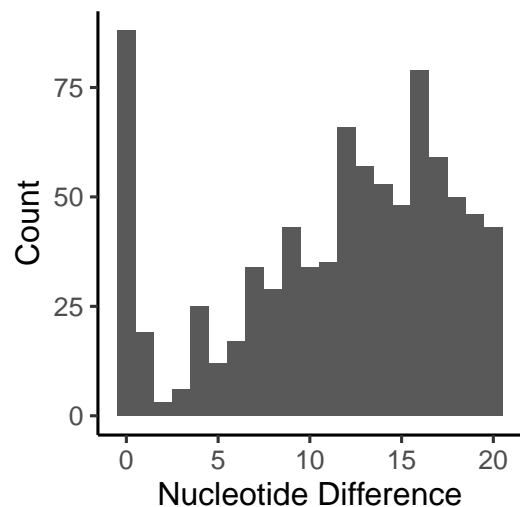
IGHV3-64*07

20 sequences assigned
No exact matches.



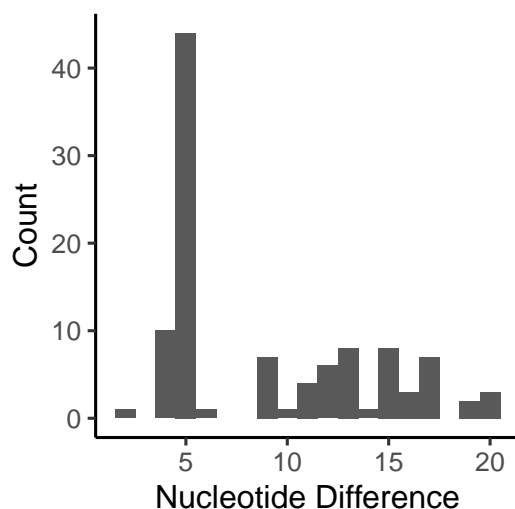
IGHV3-48*02

1421 sequences assigned
88 (6.2%) exact matches, in which:
60 unique CDR3
5 unique J



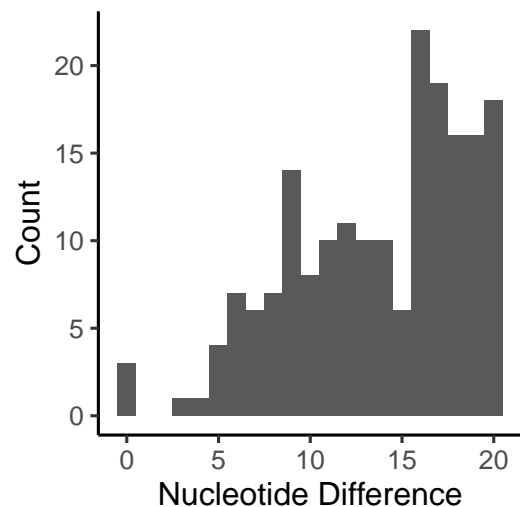
IGHV3-64*01

133 sequences assigned
No exact matches.



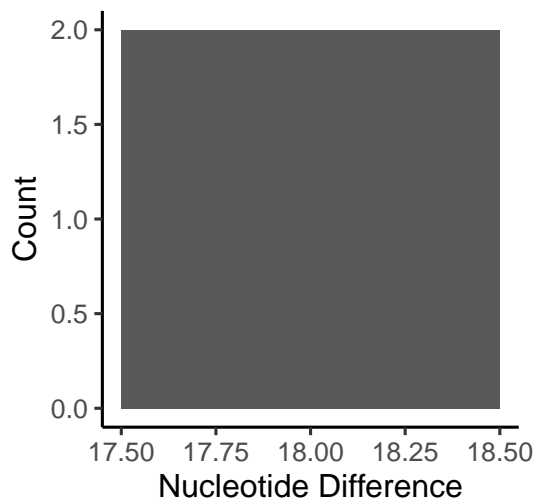
IGHV3-66*02

402 sequences assigned
3 (0.7%) exact matches, in which:
2 unique CDR3
2 unique J



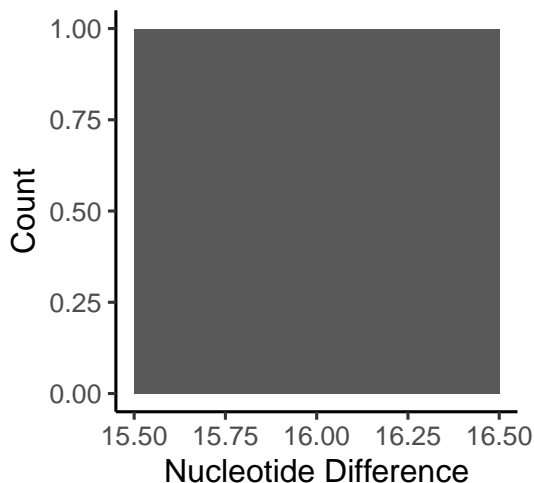
IGHV3-69-1*01

3 sequences assigned
No exact matches.



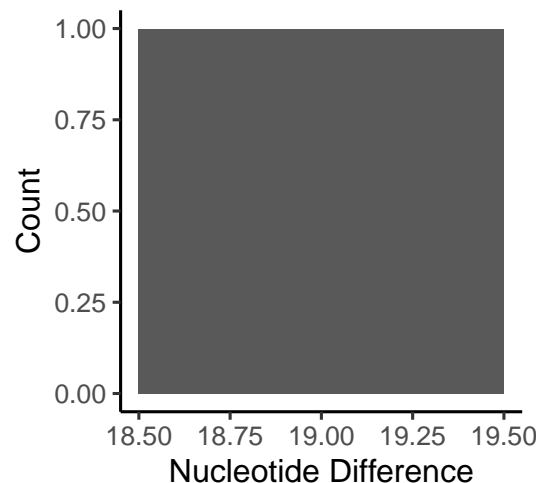
IGHV3-73*01

1 sequences assigned
No exact matches.



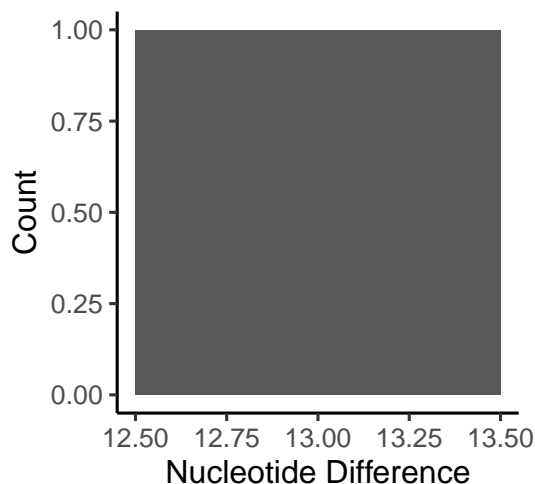
IGHV3-NL1*01

1 sequences assigned
No exact matches.



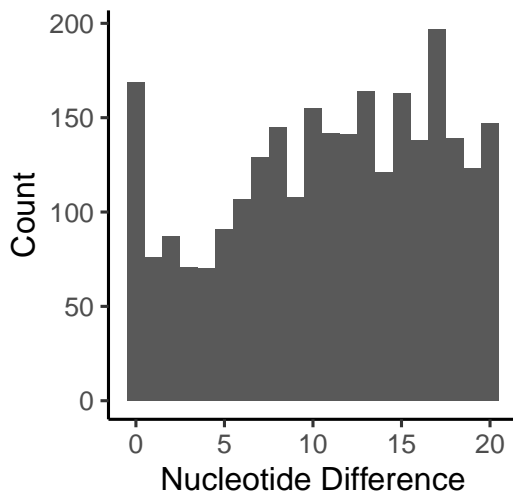
IGHV3-69-1*02

1 sequences assigned
No exact matches.



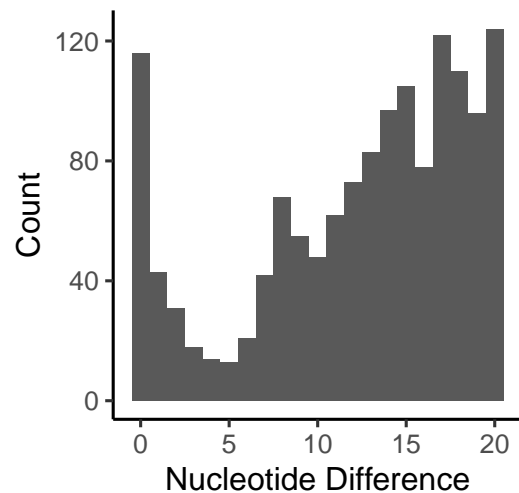
IGHV3-74*01

3959 sequences assigned
169 (4.3%) exact matches, in which:
90 unique CDR3
6 unique J



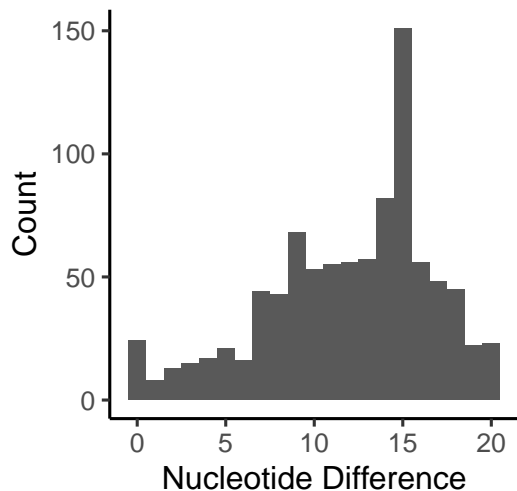
IGHV4-4*02

2354 sequences assigned
116 (4.9%) exact matches, in which:
99 unique CDR3
5 unique J



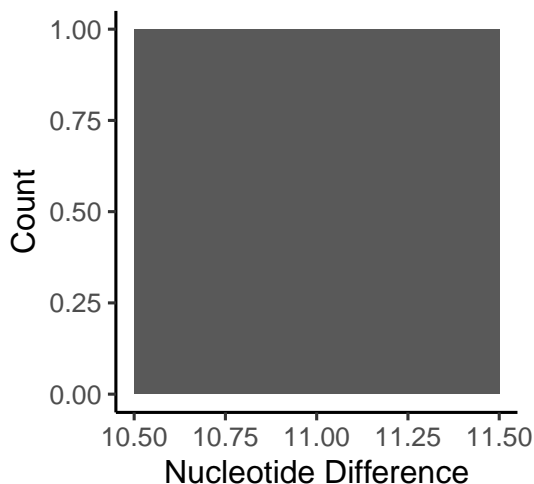
IGHV3-72*01

1103 sequences assigned
24 (2.2%) exact matches, in which:
13 unique CDR3
4 unique J



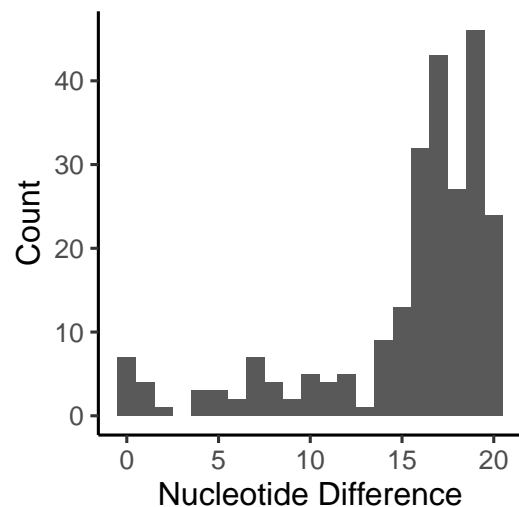
IGHV3-43D*03

1 sequences assigned
No exact matches.



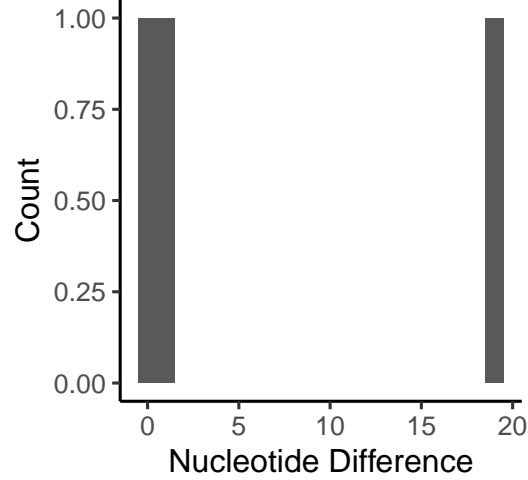
IGHV4-4*07

535 sequences assigned
7 (1.3%) exact matches, in which:
6 unique CDR3
3 unique J



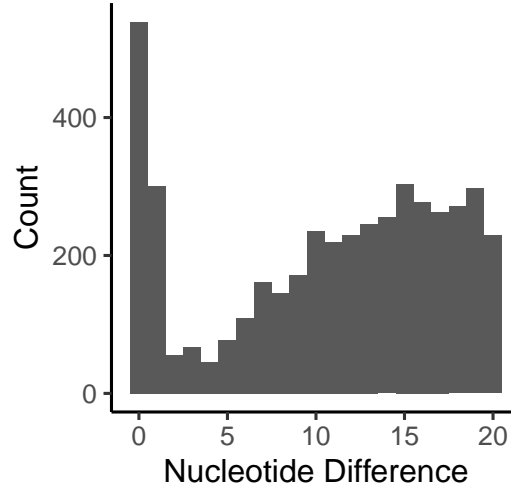
IGHV4–28*03

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



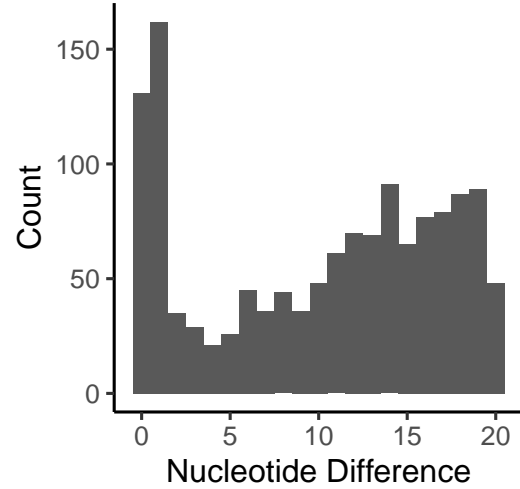
IGHV4–31*03

6037 sequences assigned
539 (8.9%) exact matches, in which:
329 unique CDR3
6 unique J



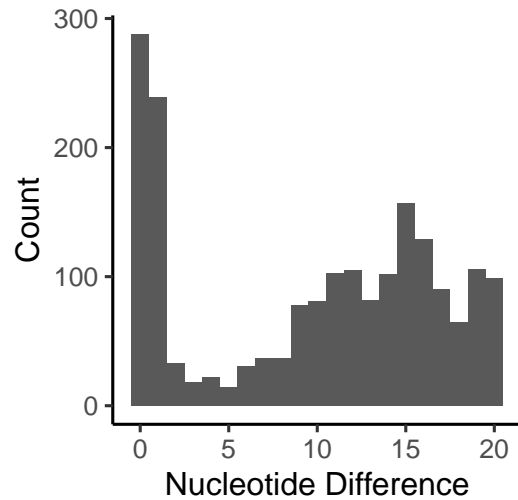
IGHV4–61*01

1996 sequences assigned
131 (6.6%) exact matches, in which:
81 unique CDR3
5 unique J



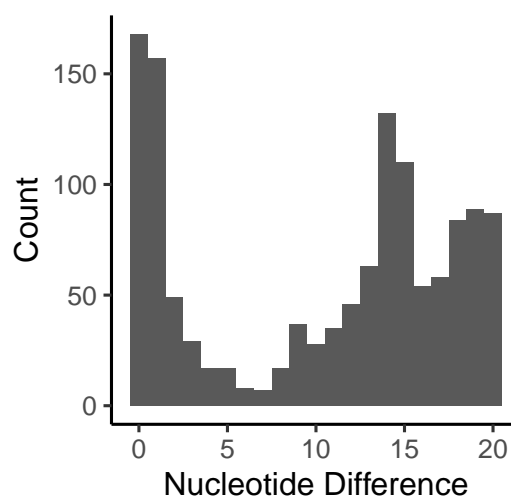
IGHV4–30–4*01

2511 sequences assigned
288 (11.5%) exact matches, in which:
163 unique CDR3
5 unique J



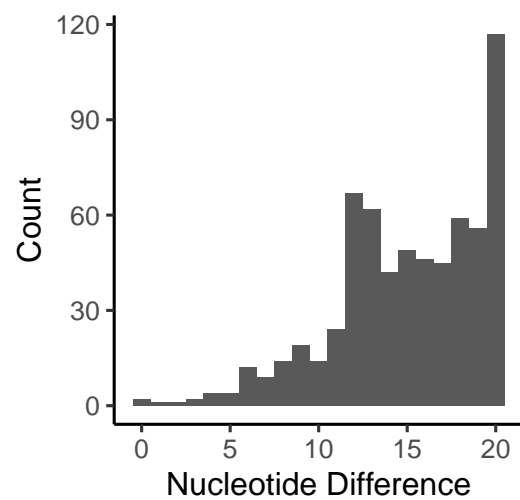
IGHV4–39*01

2729 sequences assigned
168 (6.2%) exact matches, in which:
145 unique CDR3
6 unique J



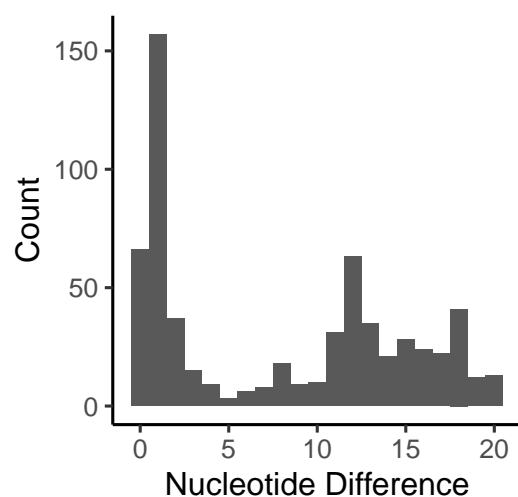
IGHV4–61*02

1414 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



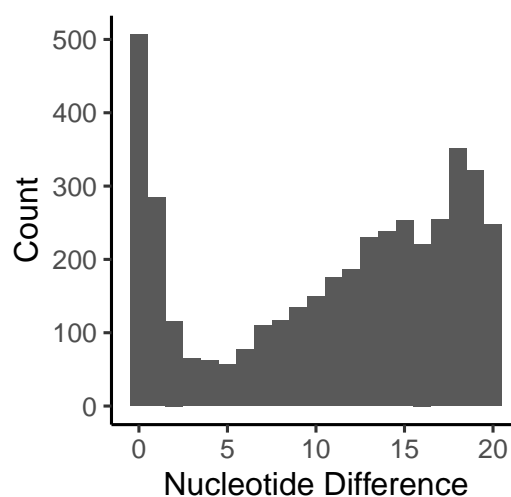
IGHV4–30–2*01

825 sequences assigned
66 (8%) exact matches, in which:
30 unique CDR3
5 unique J



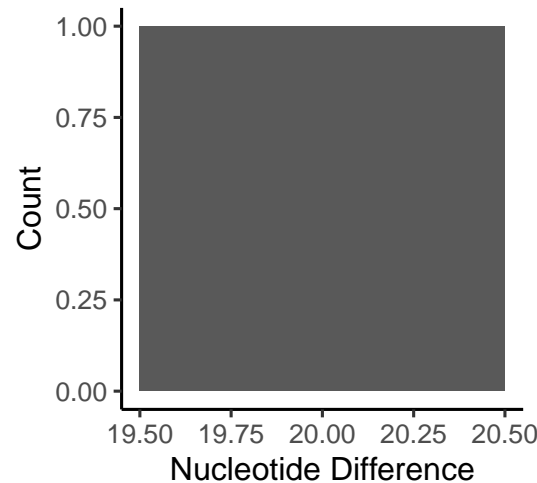
IGHV4–59*01

6376 sequences assigned
507 (8%) exact matches, in which:
314 unique CDR3
6 unique J



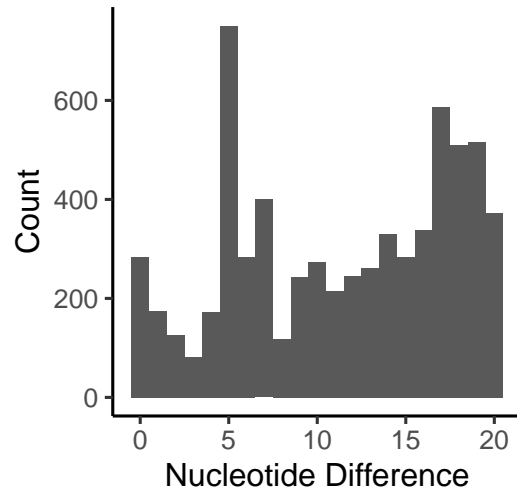
IGHV1/OR15–1*04

3 sequences assigned
No exact matches.



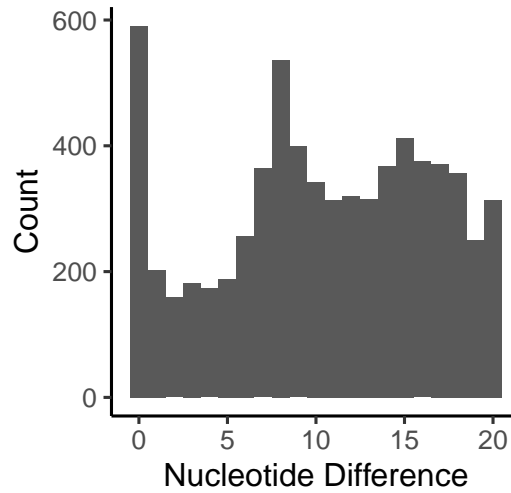
IGHV5-51*01

8363 sequences assigned
283 (3.4%) exact matches, in which:
144 unique CDR3
6 unique J



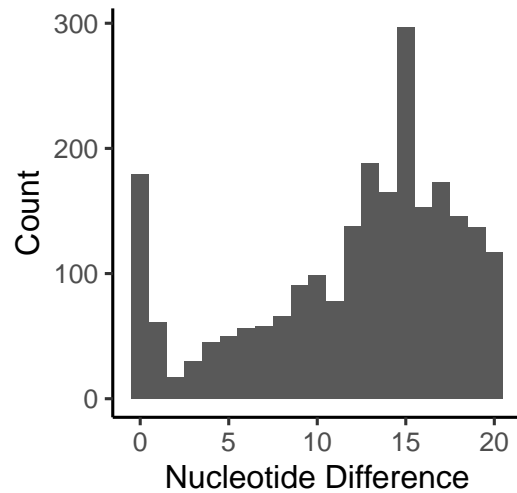
IGHV7-4-1*02

9142 sequences assigned
591 (6.5%) exact matches, in which:
303 unique CDR3
6 unique J



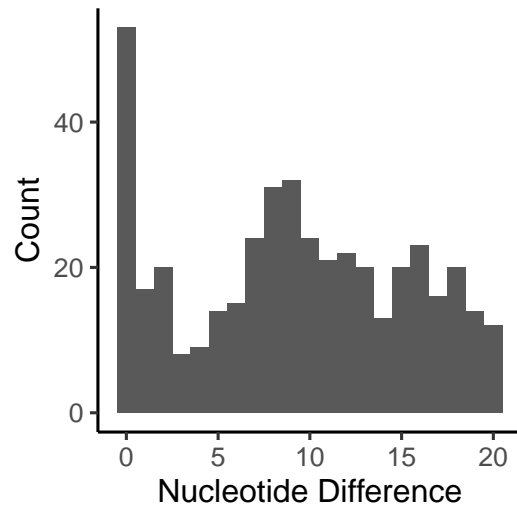
IGHV5-51*03

3376 sequences assigned
179 (5.3%) exact matches, in which:
81 unique CDR3
6 unique J



IGHV6-1*01

520 sequences assigned
53 (10.2%) exact matches, in which:
29 unique CDR3
5 unique J





Warning – no inferred sequences found.