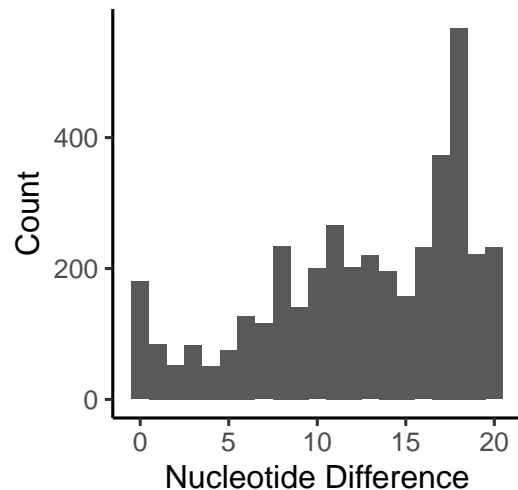


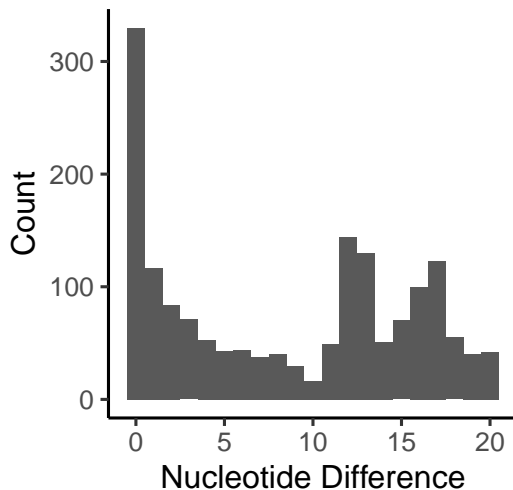
IGHV1-2*02

6825 sequences assigned
180 (2.6%) exact matches, in which:
142 unique CDR3
6 unique J



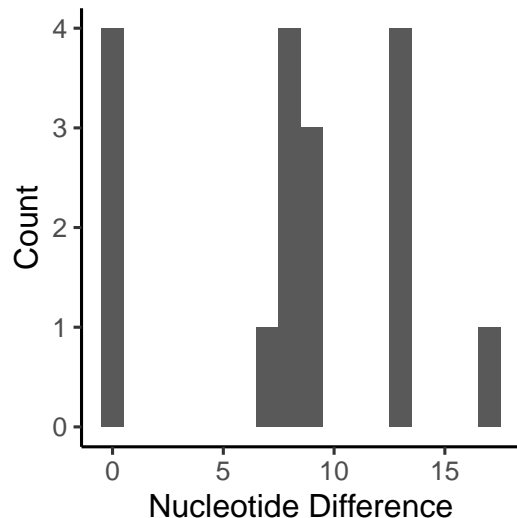
IGHV1-8*01

2221 sequences assigned
330 (14.9%) exact matches, in which:
224 unique CDR3
6 unique J



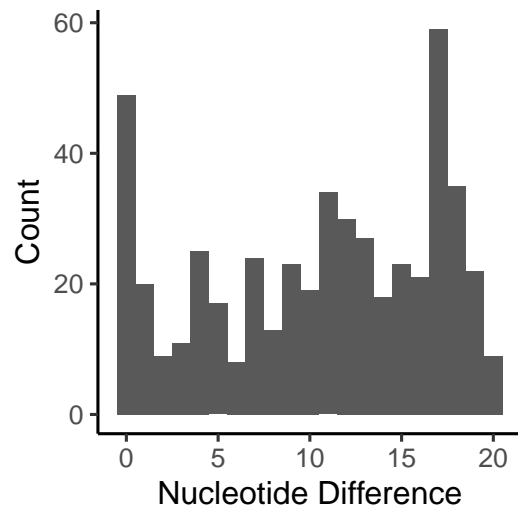
IGHV1-45*02

41 sequences assigned
4 (9.8%) exact matches, in which:
3 unique CDR3
3 unique J



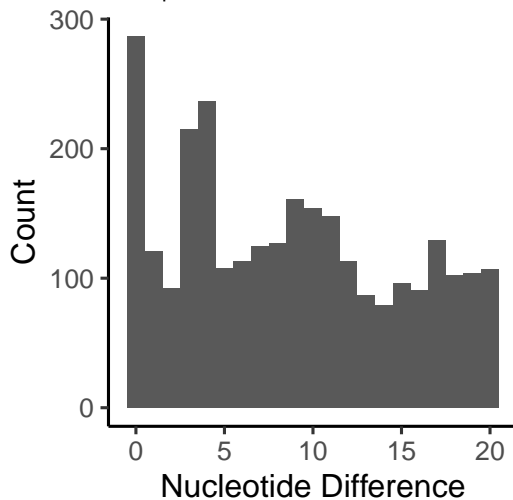
IGHV1-3*01

780 sequences assigned
49 (6.3%) exact matches, in which:
33 unique CDR3
4 unique J



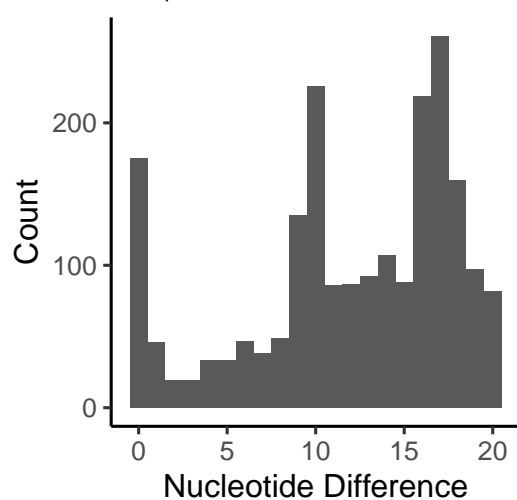
IGHV1-18*01

3986 sequences assigned
287 (7.2%) exact matches, in which:
229 unique CDR3
6 unique J



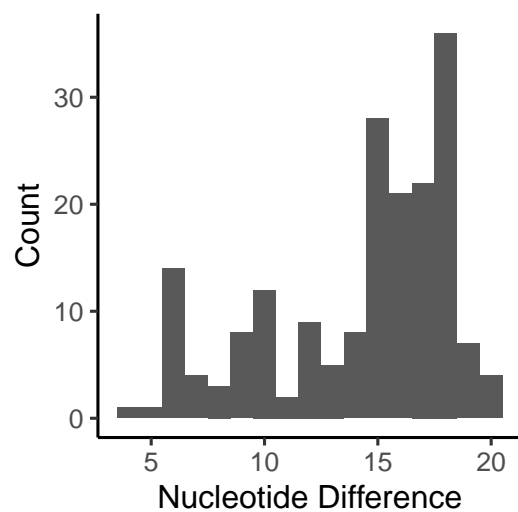
IGHV1-46*01

3717 sequences assigned
175 (4.7%) exact matches, in which:
131 unique CDR3
5 unique J



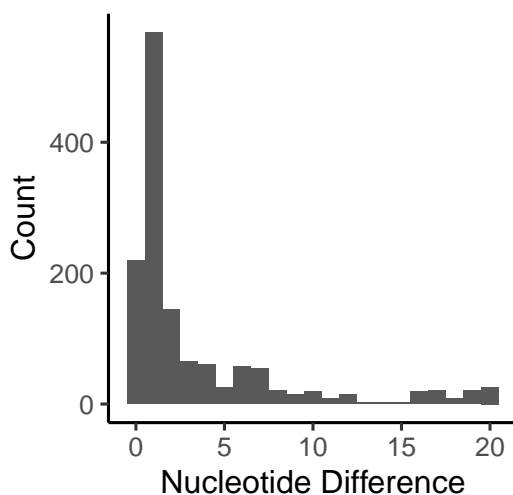
IGHV1-3*04

220 sequences assigned
No exact matches.



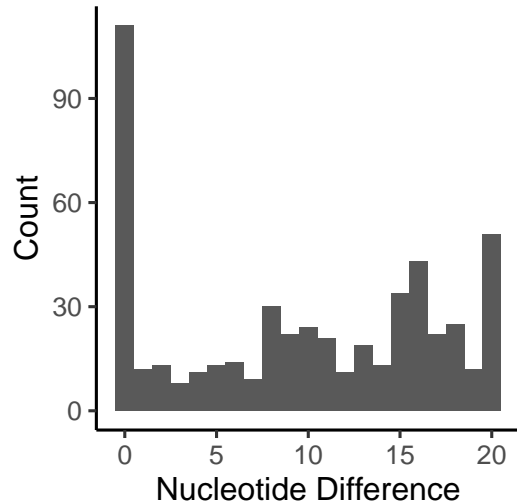
IGHV1-24*01

1459 sequences assigned
219 (15%) exact matches, in which:
89 unique CDR3
3 unique J



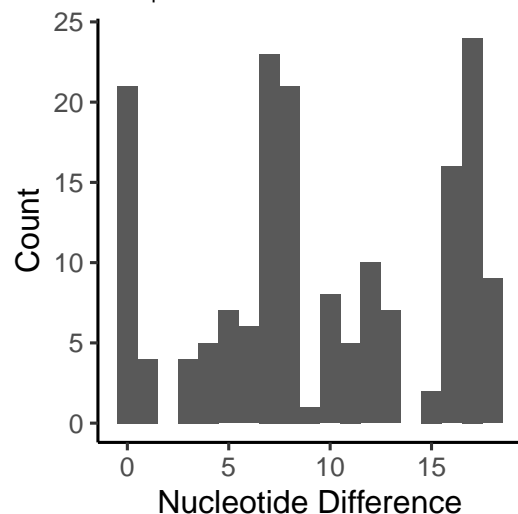
IGHV1-46*03

835 sequences assigned
111 (13.3%) exact matches, in which:
75 unique CDR3
5 unique J



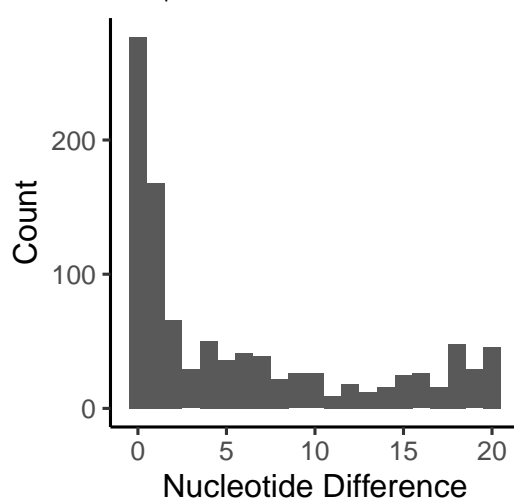
IGHV1-58*01

239 sequences assigned
21 (8.8%) exact matches, in which:
20 unique CDR3
4 unique J



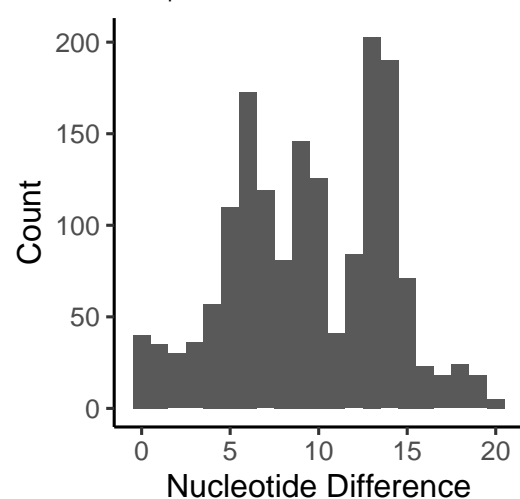
IGHV1-69*17

2277 sequences assigned
277 (12.2%) exact matches, in which:
171 unique CDR3
6 unique J



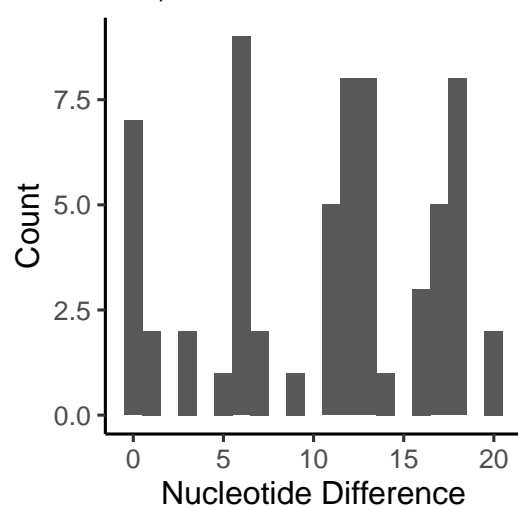
IGHV2-26*01

1638 sequences assigned
40 (2.4%) exact matches, in which:
34 unique CDR3
5 unique J



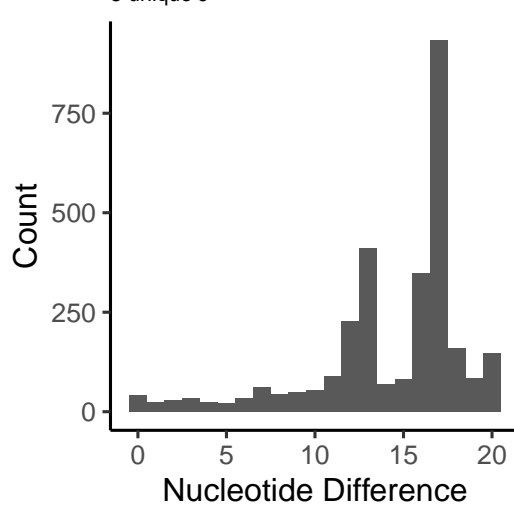
IGHV1-58*02

83 sequences assigned
7 (8.4%) exact matches, in which:
7 unique CDR3
3 unique J



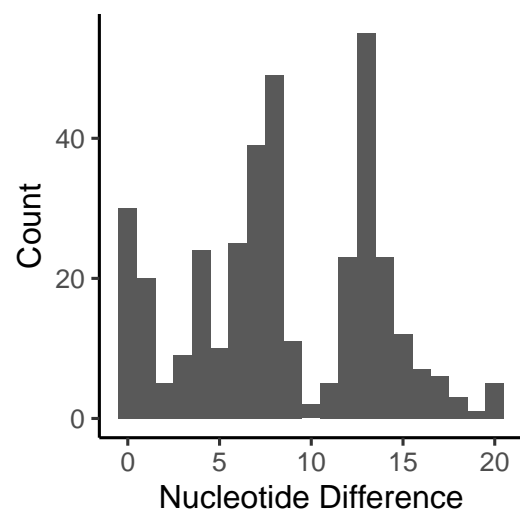
IGHV2-5*01

3662 sequences assigned
42 (1.1%) exact matches, in which:
30 unique CDR3
5 unique J



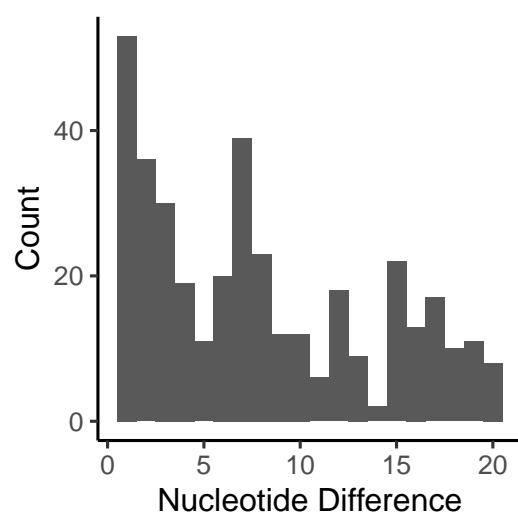
IGHV2-70*01

406 sequences assigned
30 (7.4%) exact matches, in which:
22 unique CDR3
3 unique J



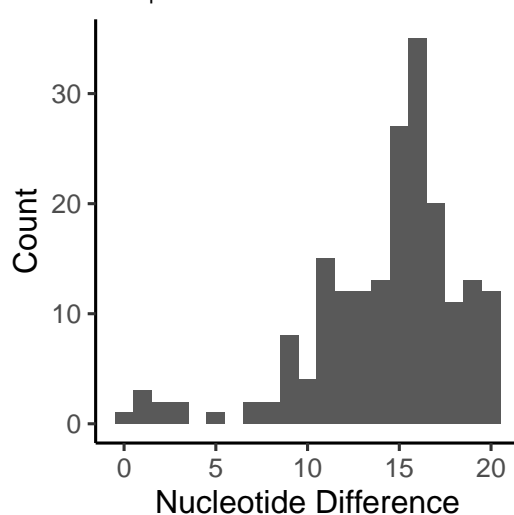
IGHV1-69*08

736 sequences assigned
No exact matches.



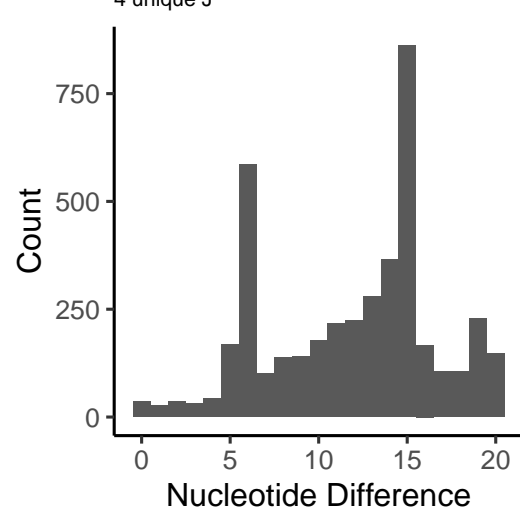
IGHV2-5*02

237 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



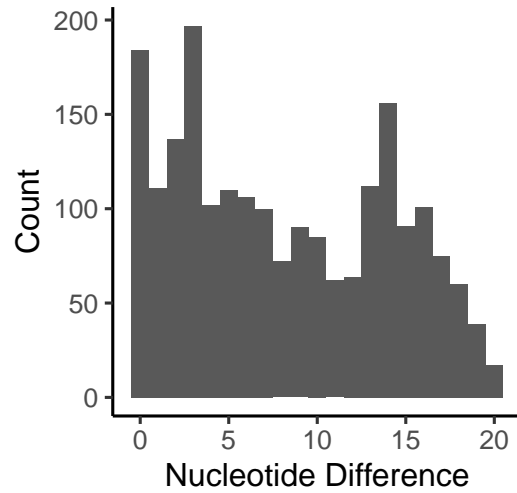
IGHV3-7*01

4516 sequences assigned
37 (0.8%) exact matches, in which:
21 unique CDR3
4 unique J



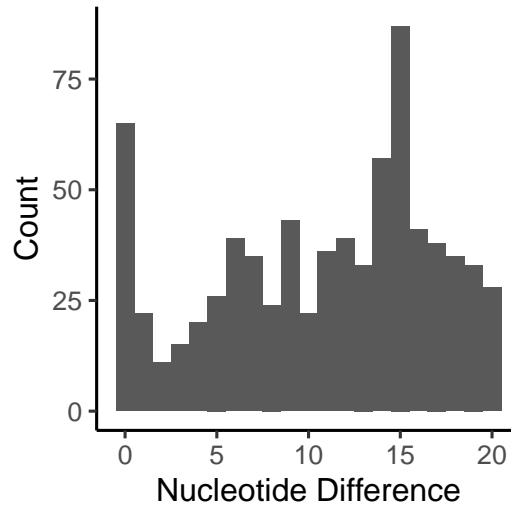
IGHV3-9*01

2332 sequences assigned
184 (7.9%) exact matches, in which:
102 unique CDR3
6 unique J



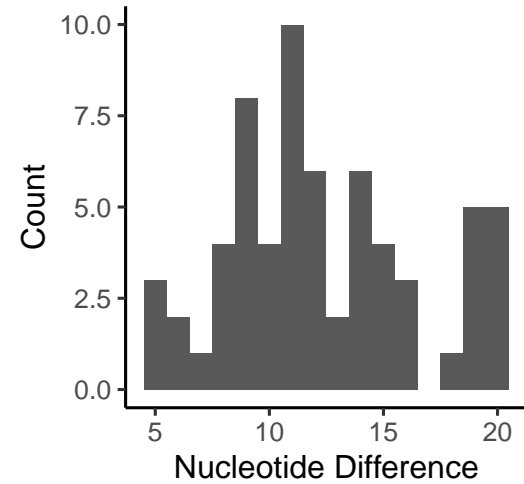
IGHV3-15*01

942 sequences assigned
65 (6.9%) exact matches, in which:
31 unique CDR3
5 unique J



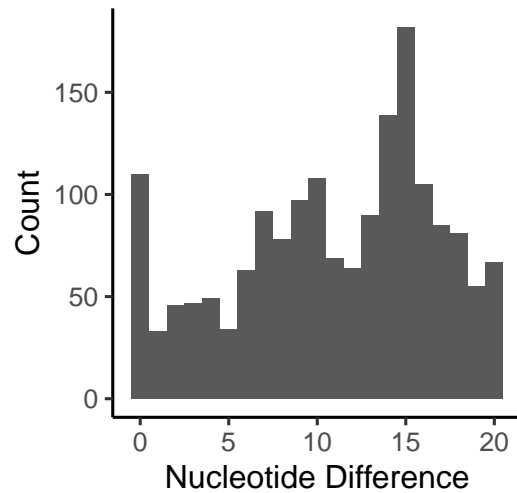
IGHV3-21*06

113 sequences assigned
No exact matches.



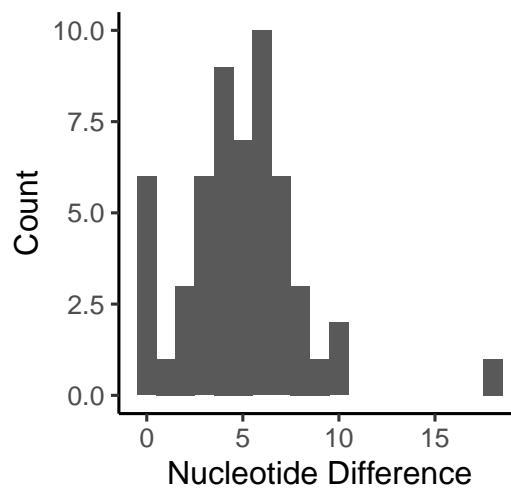
IGHV3-11*01

1884 sequences assigned
110 (5.8%) exact matches, in which:
62 unique CDR3
6 unique J



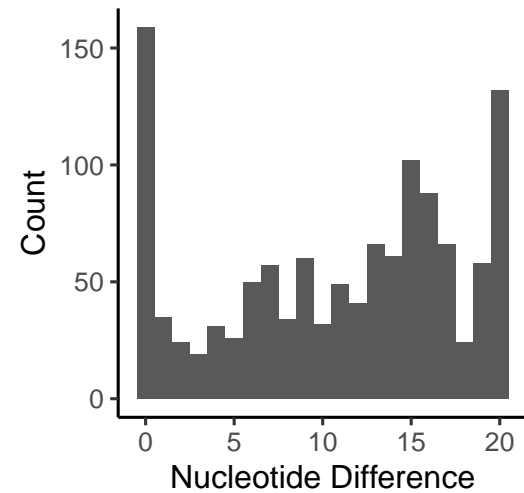
IGHV3-20*01

67 sequences assigned
6 (9%) exact matches, in which:
3 unique CDR3
3 unique J



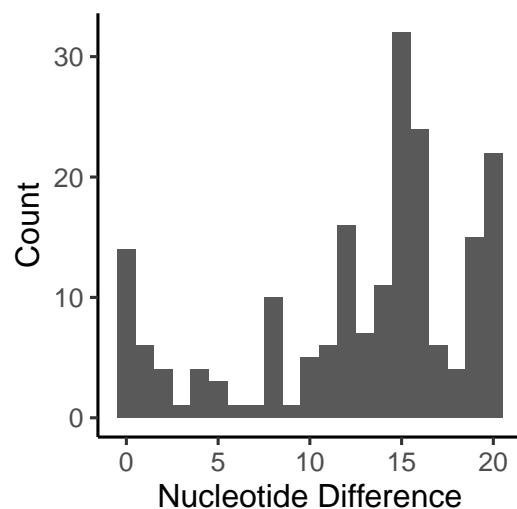
IGHV3-30-3*01

2018 sequences assigned
159 (7.9%) exact matches, in which:
116 unique CDR3
6 unique J



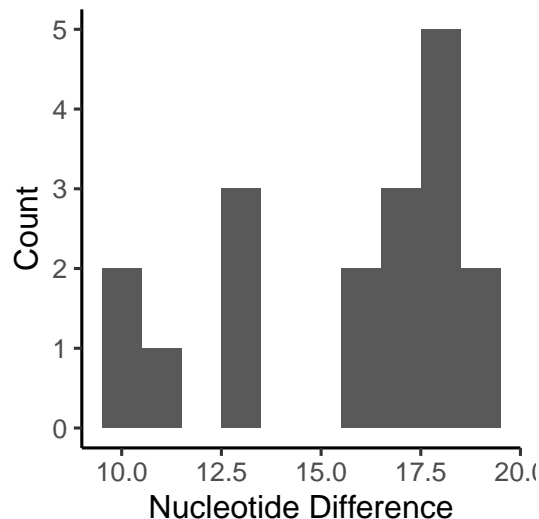
IGHV3-13*01

279 sequences assigned
14 (5%) exact matches, in which:
8 unique CDR3
3 unique J



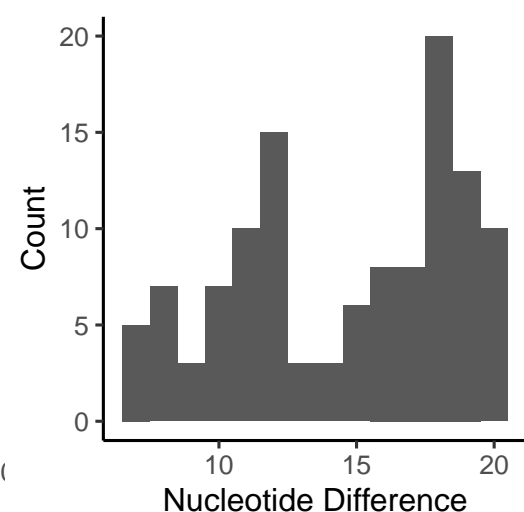
IGHV3-20*04

30 sequences assigned
No exact matches.



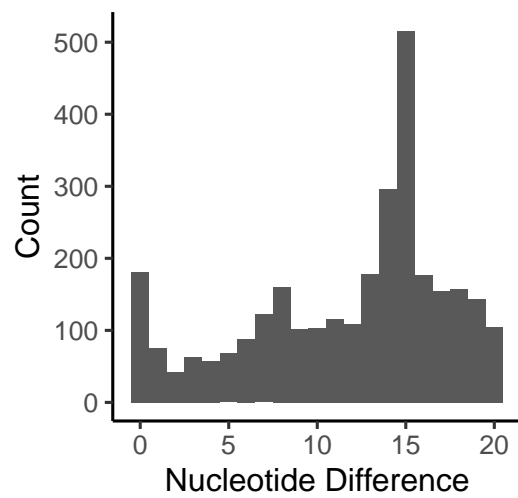
IGHV3-30*04

195 sequences assigned
No exact matches.



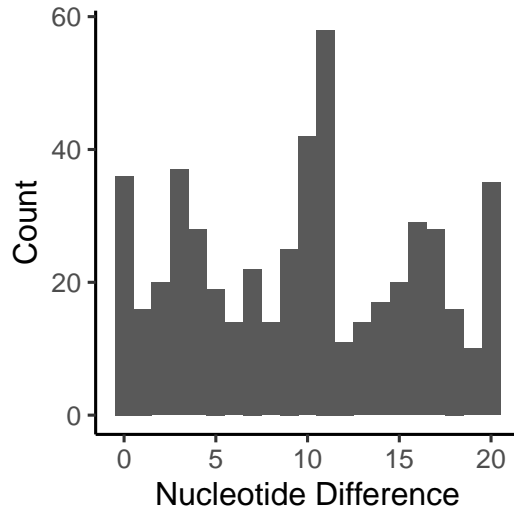
IGHV3-33*01

3954 sequences assigned
181 (4.6%) exact matches, in which:
117 unique CDR3
6 unique J



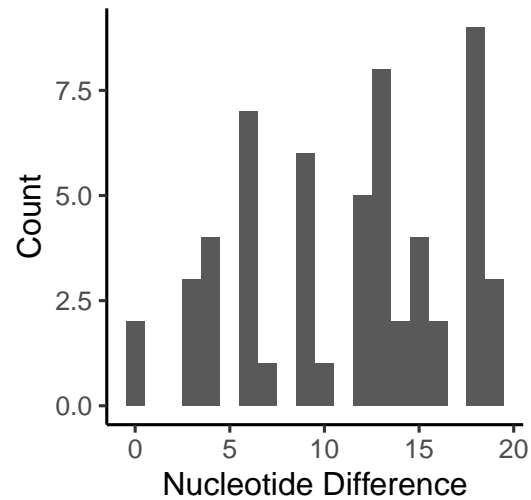
IGHV3-48*02

668 sequences assigned
36 (5.4%) exact matches, in which:
19 unique CDR3
5 unique J



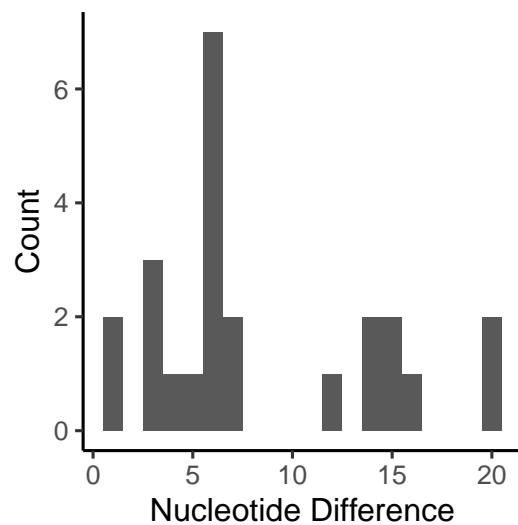
IGHV3-64*01

61 sequences assigned
2 (3.3%) exact matches, in which:
2 unique CDR3
2 unique J



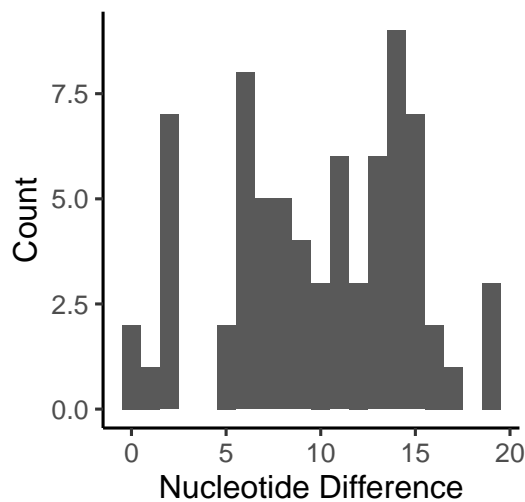
IGHV3-43*01

27 sequences assigned
No exact matches.



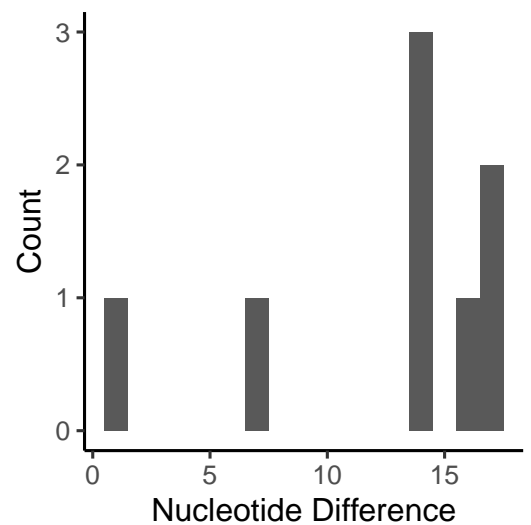
IGHV3-49*03

116 sequences assigned
2 (1.7%) exact matches, in which:
1 unique CDR3
1 unique J



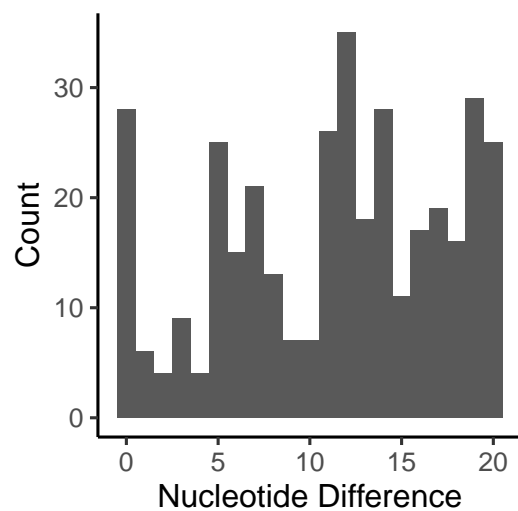
IGHV3-64*07

18 sequences assigned
No exact matches.



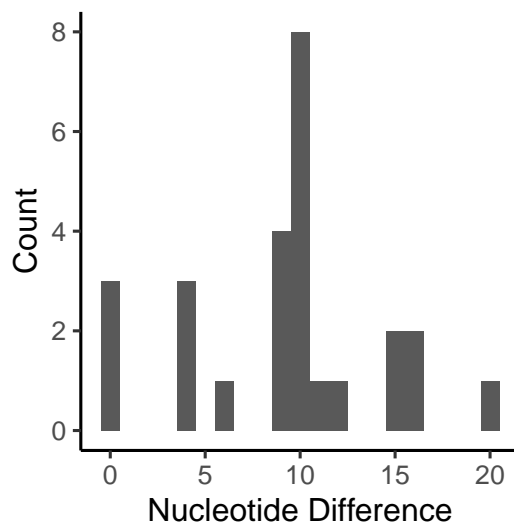
IGHV3-48*01

413 sequences assigned
28 (6.8%) exact matches, in which:
15 unique CDR3
4 unique J



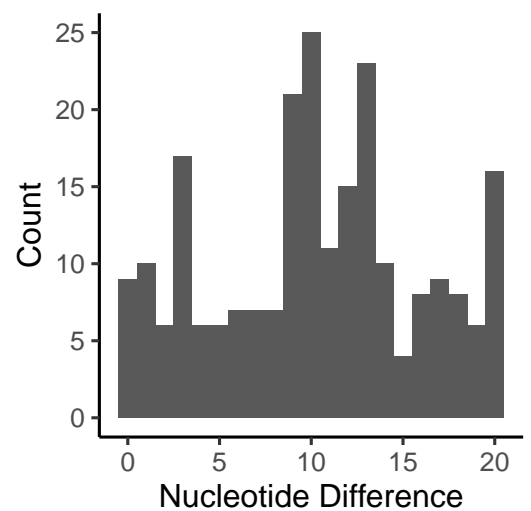
IGHV3-49*05

63 sequences assigned
3 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



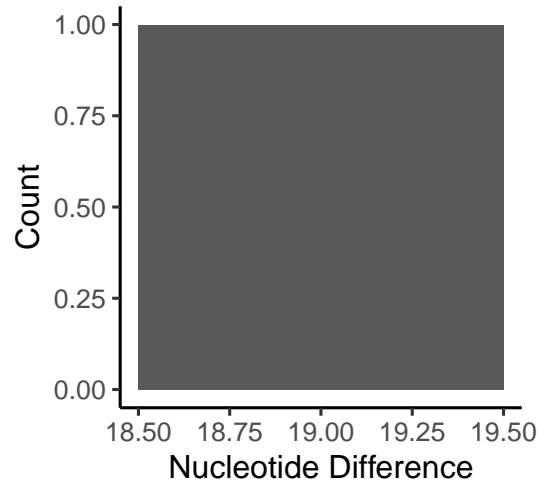
IGHV3-66*02

328 sequences assigned
9 (2.7%) exact matches, in which:
3 unique CDR3
2 unique J



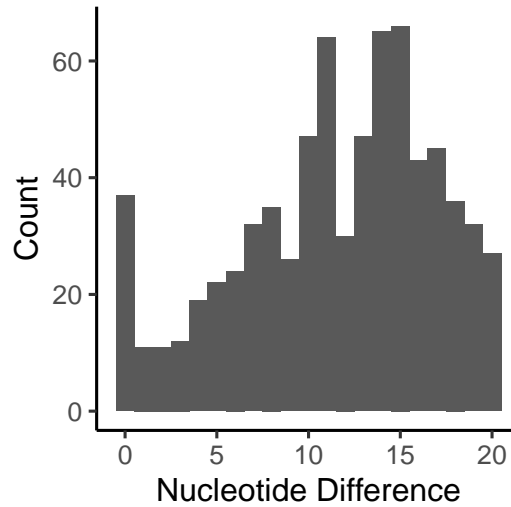
IGHV3-69-1*02

5 sequences assigned
No exact matches.



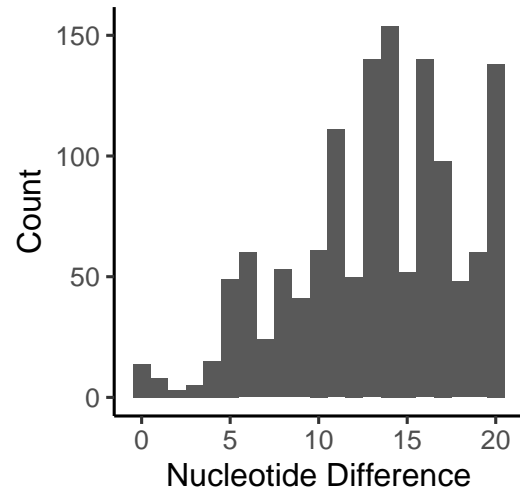
IGHV3-74*01

1064 sequences assigned
37 (3.5%) exact matches, in which:
20 unique CDR3
3 unique J



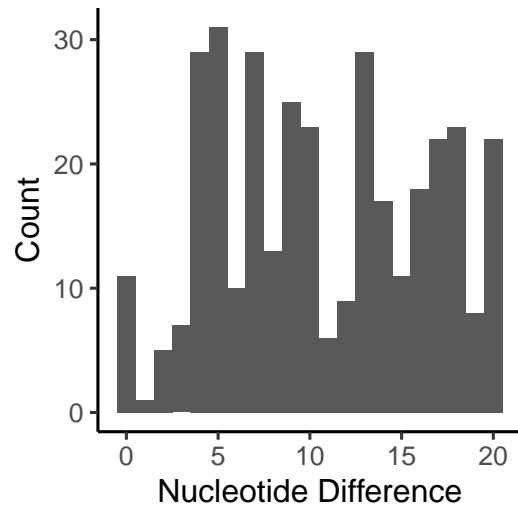
IGHV4-30-4*01

1749 sequences assigned
14 (0.8%) exact matches, in which:
9 unique CDR3
3 unique J



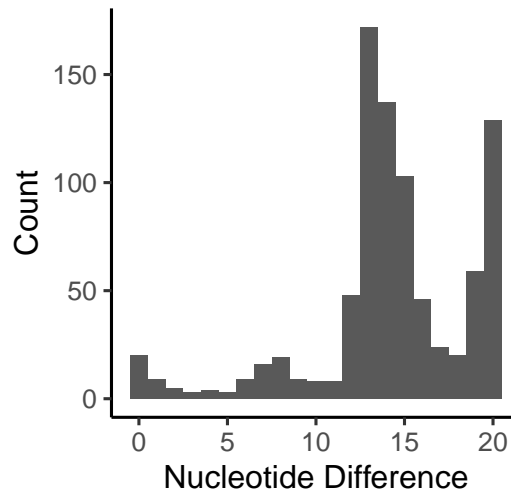
IGHV3-72*01

560 sequences assigned
11 (2%) exact matches, in which:
4 unique CDR3
2 unique J



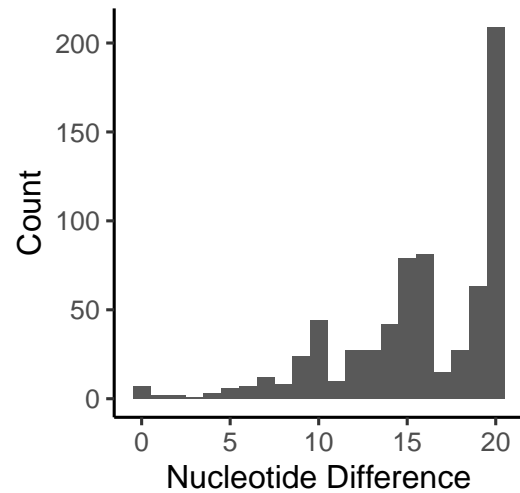
IGHV4-4*02

1065 sequences assigned
20 (1.9%) exact matches, in which:
14 unique CDR3
3 unique J



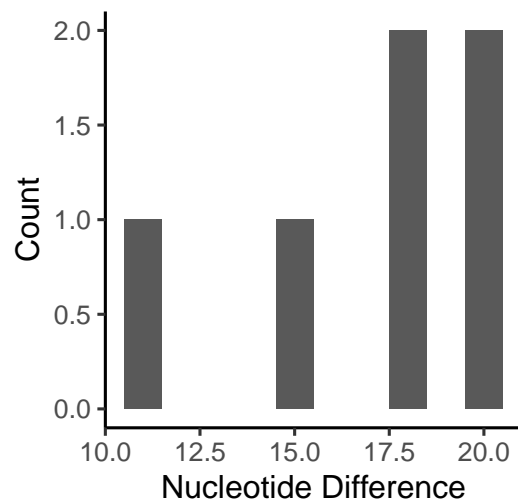
IGHV4-30-2*01

910 sequences assigned
7 (0.8%) exact matches, in which:
5 unique CDR3
3 unique J



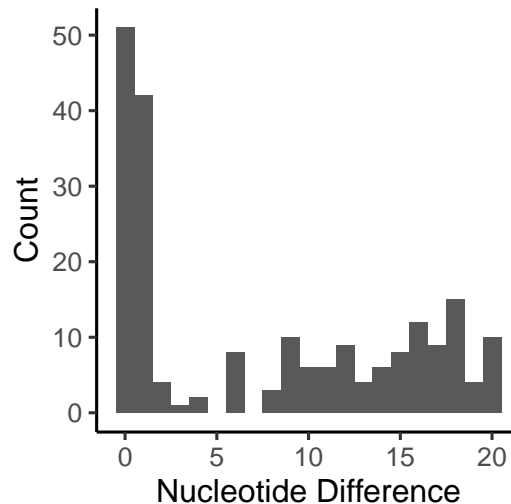
IGHV3-73*01

12 sequences assigned
No exact matches.



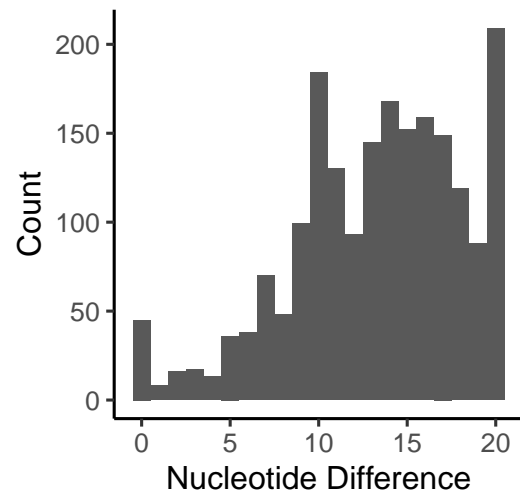
IGHV4-4*07

358 sequences assigned
51 (14.2%) exact matches, in which:
22 unique CDR3
6 unique J



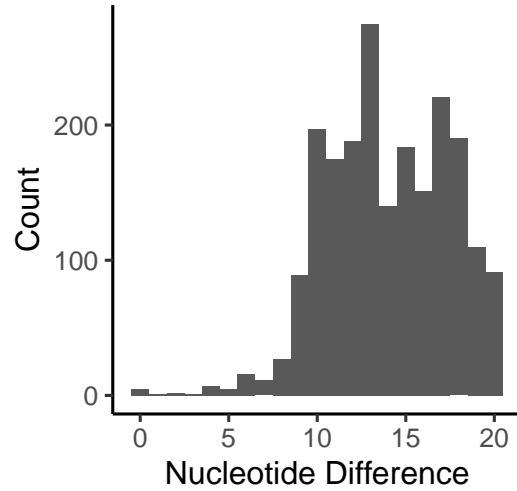
IGHV4-31*03

4049 sequences assigned
45 (1.1%) exact matches, in which:
28 unique CDR3
5 unique J



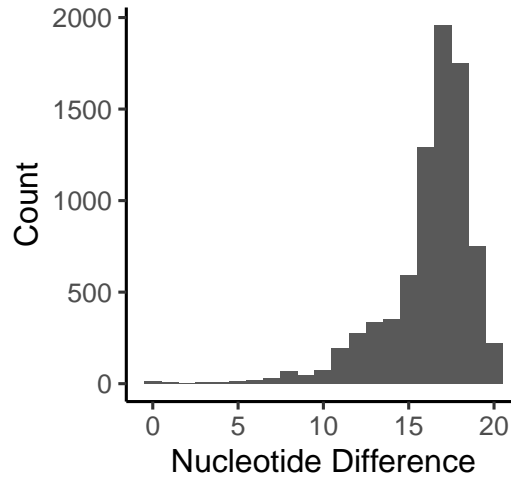
IGHV4-39*01

3193 sequences assigned
5 (0.2%) exact matches, in which:
5 unique CDR3
2 unique J



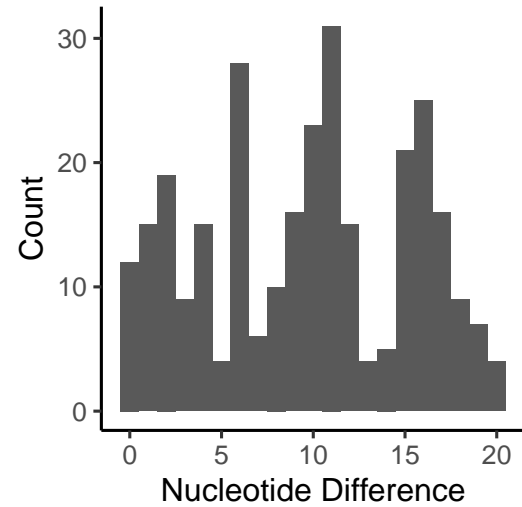
IGHV4-61*02

8623 sequences assigned
11 (0.1%) exact matches, in which:
5 unique CDR3
3 unique J



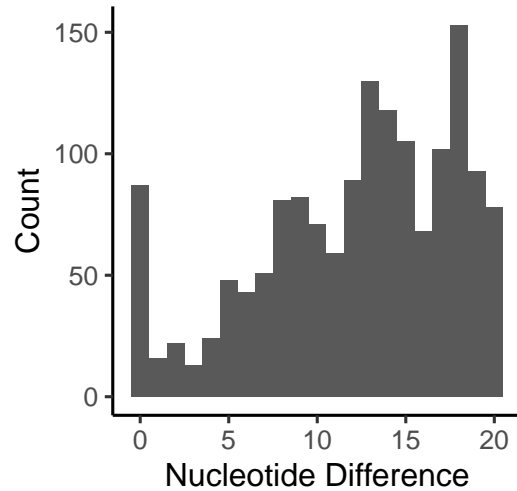
IGHV6-1*01

373 sequences assigned
12 (3.2%) exact matches, in which:
6 unique CDR3
3 unique J



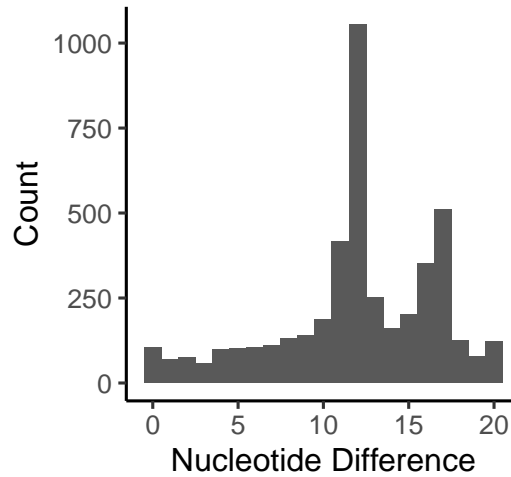
IGHV4-59*01

1950 sequences assigned
87 (4.5%) exact matches, in which:
51 unique CDR3
5 unique J



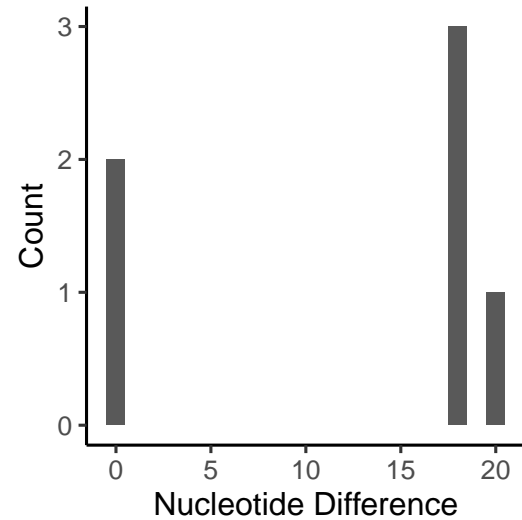
IGHV5-51*01

5003 sequences assigned
104 (2.1%) exact matches, in which:
54 unique CDR3
4 unique J



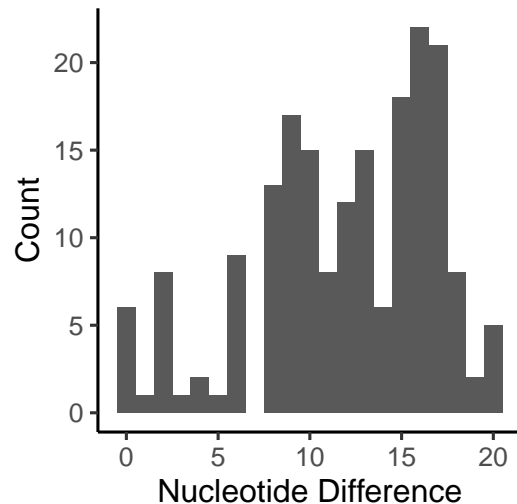
IGHV7-4-1*01

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
1 unique J



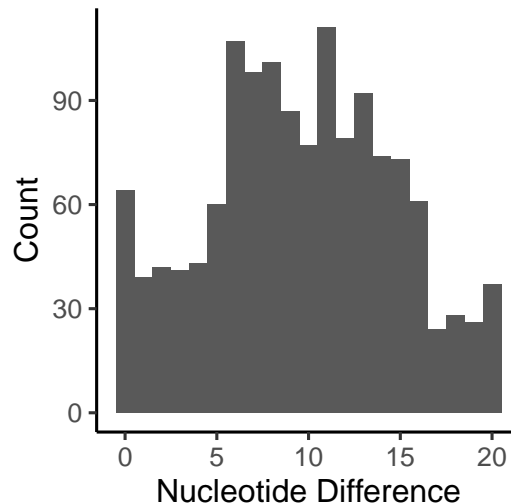
IGHV4-61*01

251 sequences assigned
6 (2.4%) exact matches, in which:
3 unique CDR3
2 unique J



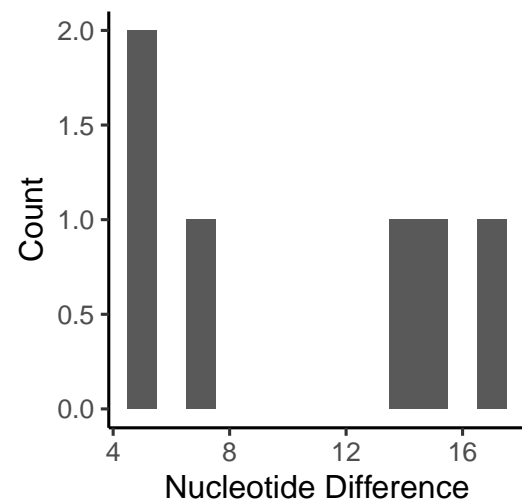
IGHV5-51*03

1471 sequences assigned
64 (4.4%) exact matches, in which:
39 unique CDR3
4 unique J



IGHV7-4-1*02

7 sequences assigned
No exact matches.





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