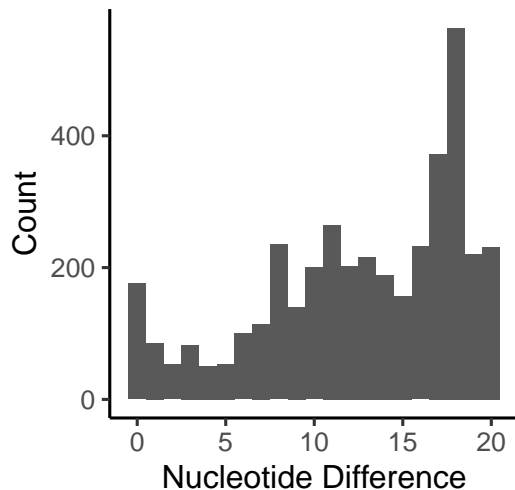


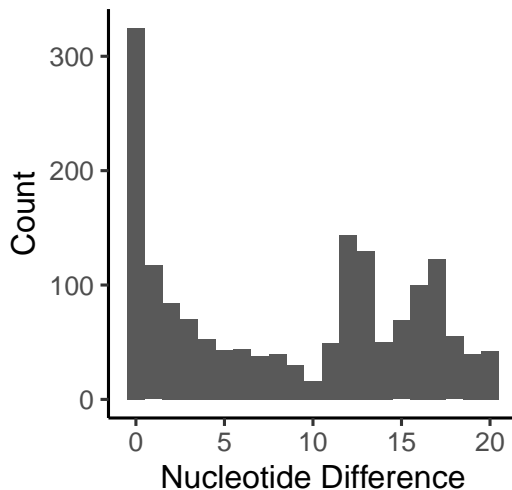
IGHV1-2*02

6734 sequences assigned
176 (2.6%) exact matches, in which:
138 unique CDR3
6 unique J



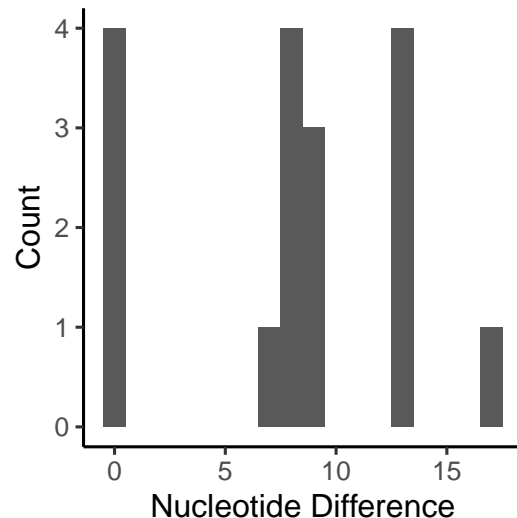
IGHV1-8*01

2208 sequences assigned
325 (14.7%) exact matches, in which:
219 unique CDR3
6 unique J



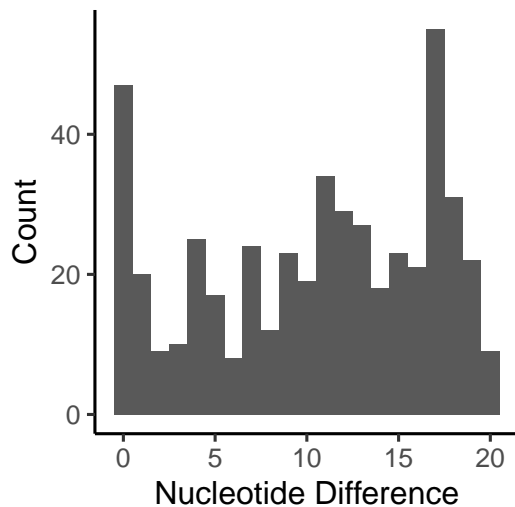
IGHV1-45*02

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



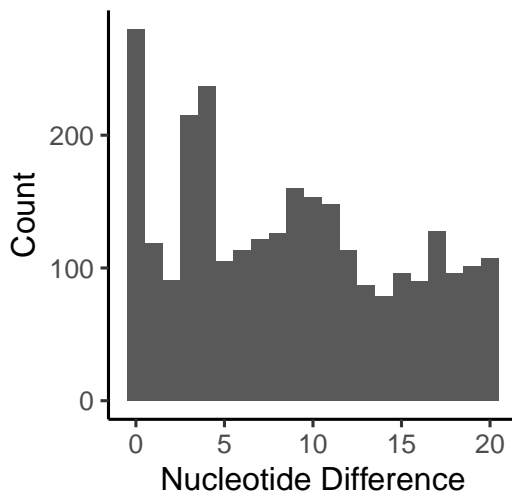
IGHV1-3*01

763 sequences assigned
47 (6.2%) exact matches, in which:
31 unique CDR3
4 unique J



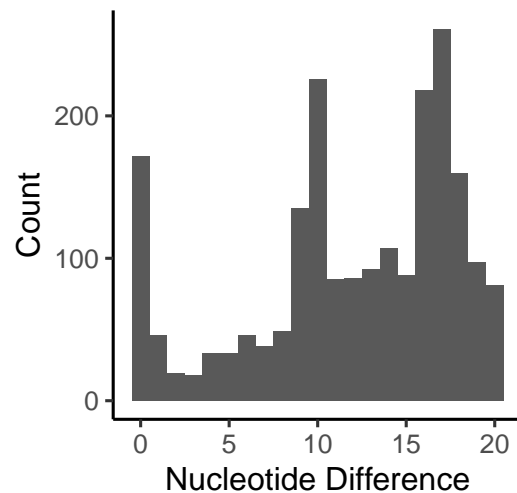
IGHV1-18*01

3946 sequences assigned
280 (7.1%) exact matches, in which:
222 unique CDR3
6 unique J



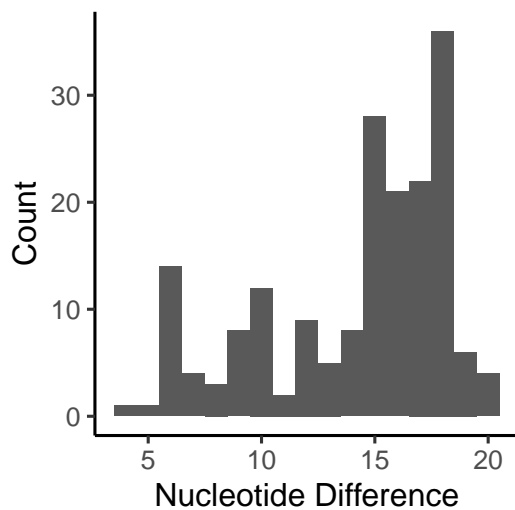
IGHV1-46*01

3705 sequences assigned
172 (4.6%) exact matches, in which:
128 unique CDR3
5 unique J



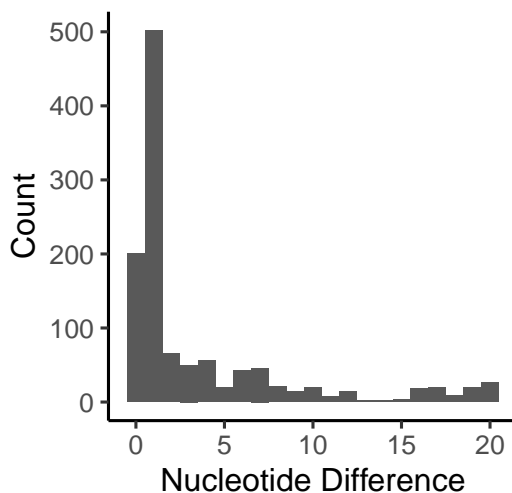
IGHV1-3*04

219 sequences assigned
No exact matches.



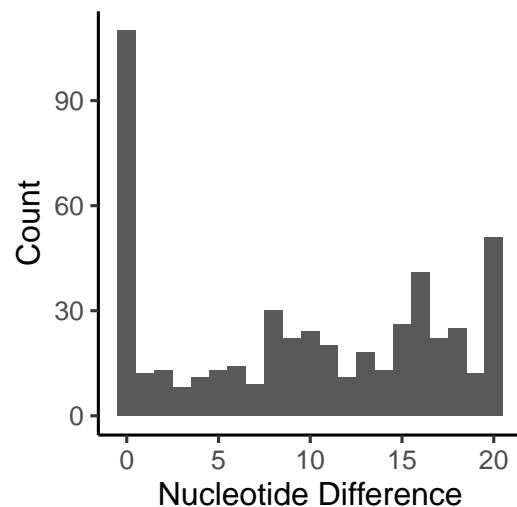
IGHV1-24*01

1244 sequences assigned
201 (16.2%) exact matches, in which:
84 unique CDR3
3 unique J



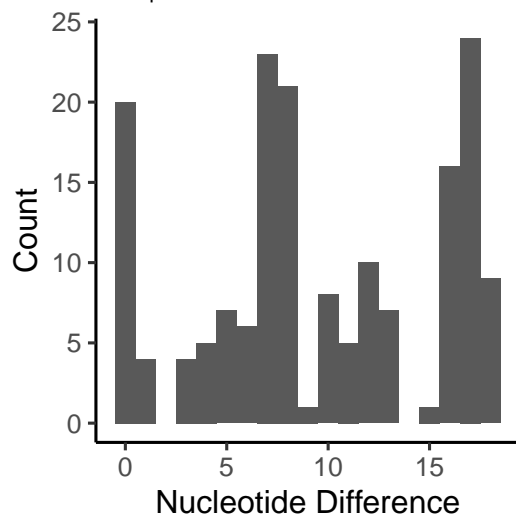
IGHV1-46*03

818 sequences assigned
110 (13.4%) exact matches, in which:
74 unique CDR3
5 unique J



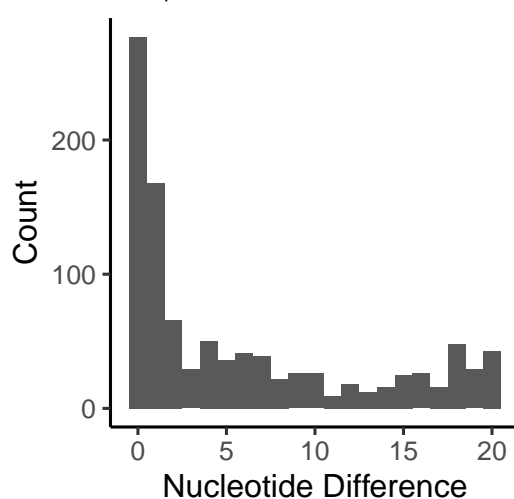
IGHV1-58*01

237 sequences assigned
20 (8.4%) exact matches, in which:
19 unique CDR3
4 unique J



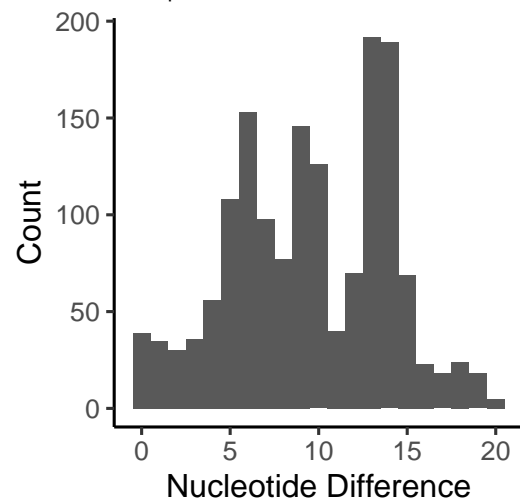
IGHV1-69*17

2274 sequences assigned
277 (12.2%) exact matches, in which:
171 unique CDR3
6 unique J



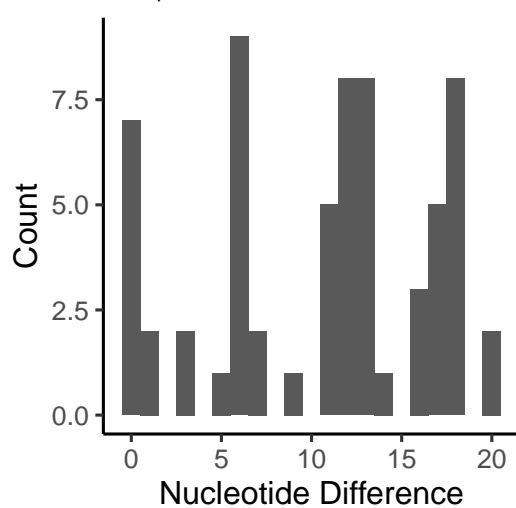
IGHV2-26*01

1560 sequences assigned
39 (2.5%) exact matches, in which:
33 unique CDR3
5 unique J



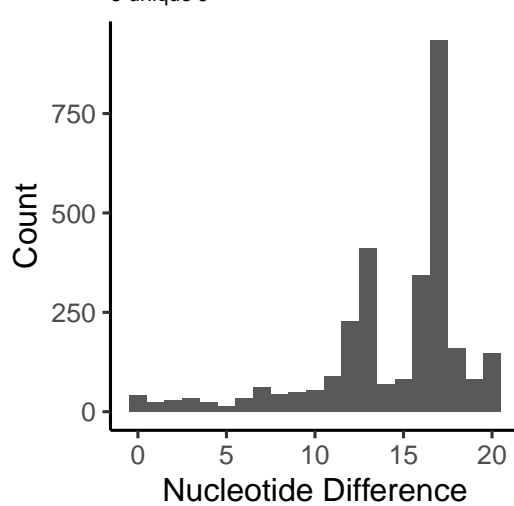
IGHV1-58*02

82 sequences assigned
7 (8.5%) exact matches, in which:
7 unique CDR3
3 unique J



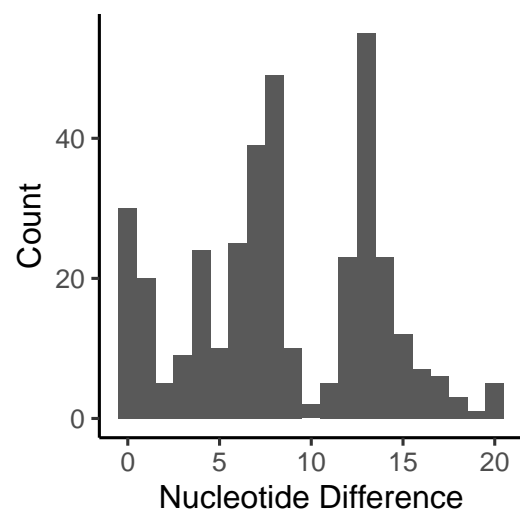
IGHV2-5*01

3653 sequences assigned
41 (1.1%) exact matches, in which:
29 unique CDR3
5 unique J



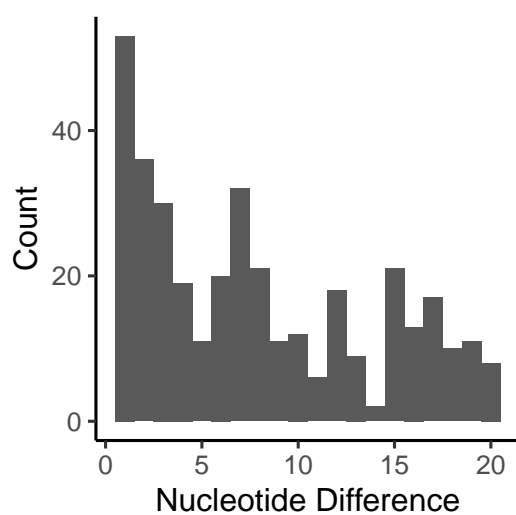
IGHV2-70*01

402 sequences assigned
30 (7.5%) exact matches, in which:
22 unique CDR3
3 unique J



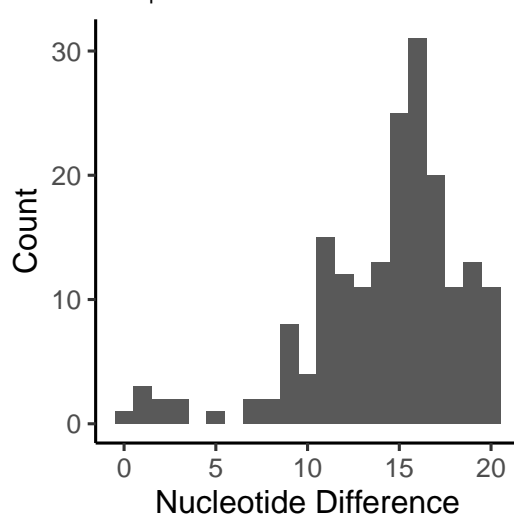
IGHV1-69*08

725 sequences assigned
No exact matches.



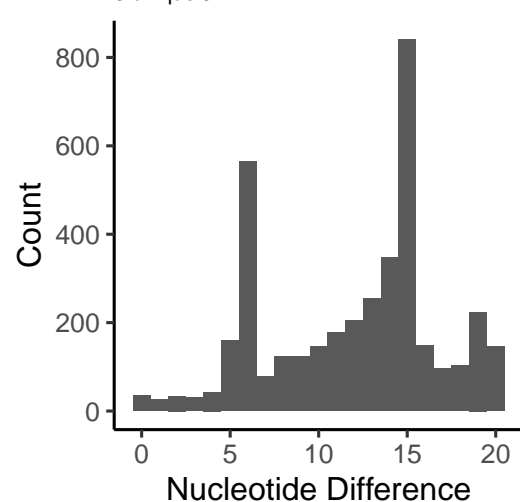
IGHV2-5*02

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



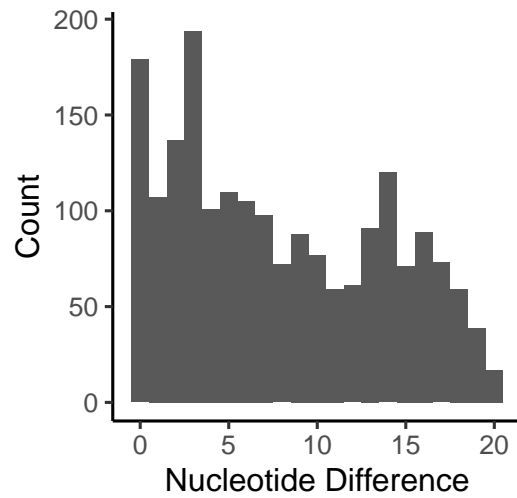
IGHV3-7*01

4221 sequences assigned
35 (0.8%) exact matches, in which:
19 unique CDR3
3 unique J



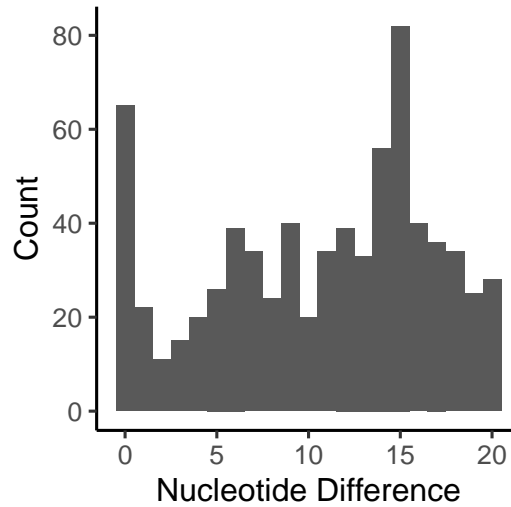
IGHV3-9*01

2201 sequences assigned
179 (8.1%) exact matches, in which:
98 unique CDR3
6 unique J



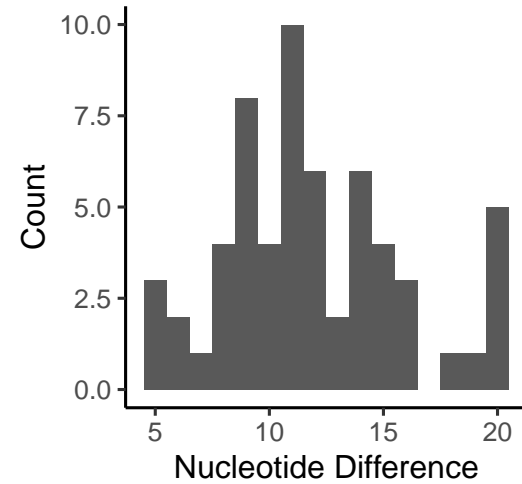
IGHV3-15*01

913 sequences assigned
65 (7.1%) exact matches, in which:
31 unique CDR3
5 unique J



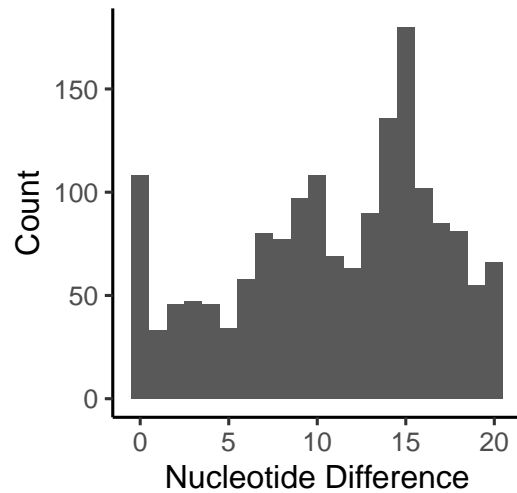
IGHV3-21*06

107 sequences assigned
No exact matches.



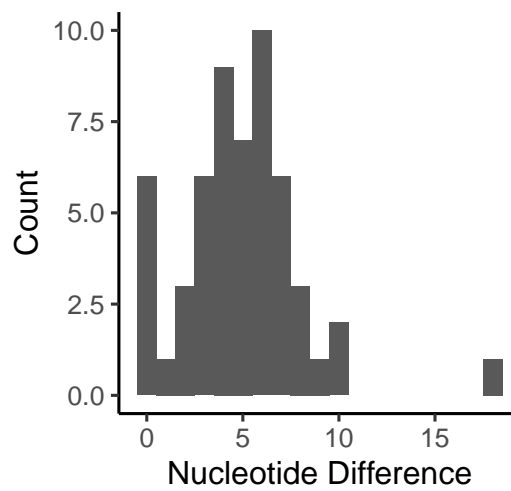
IGHV3-11*01

1843 sequences assigned
108 (5.9%) exact matches, in which:
61 unique CDR3
6 unique J



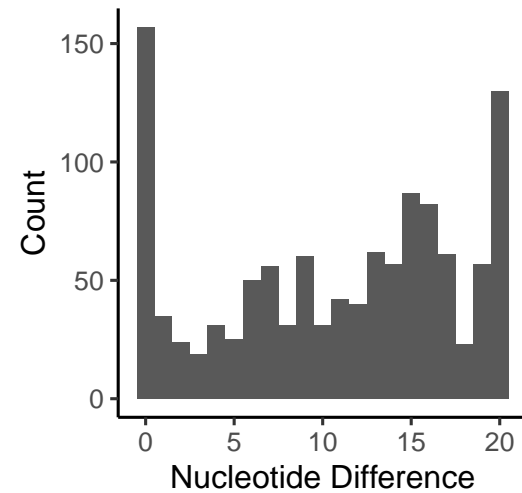
IGHV3-20*01

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



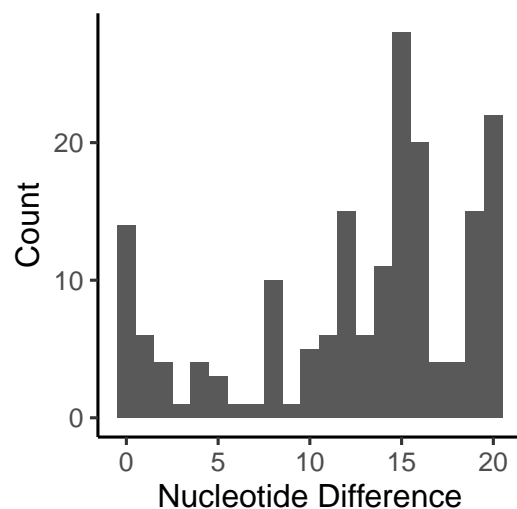
IGHV3-30-3*01

1960 sequences assigned
157 (8%) exact matches, in which:
114 unique CDR3
6 unique J



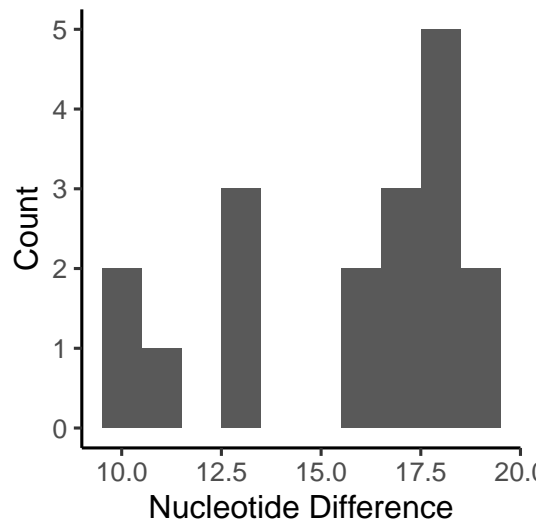
IGHV3-13*01

266 sequences assigned
14 (5.3%) exact matches, in which:
8 unique CDR3
3 unique J



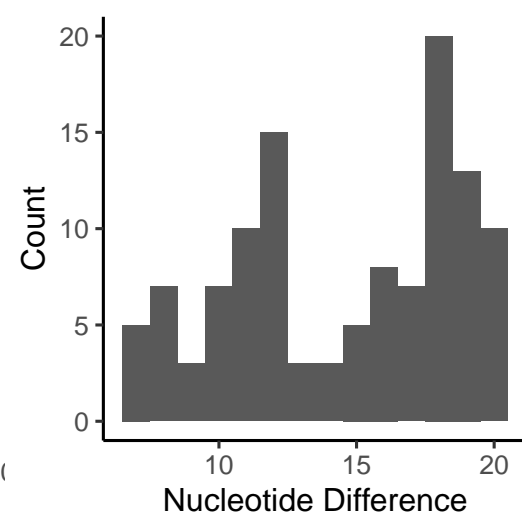
IGHV3-20*04

30 sequences assigned
No exact matches.



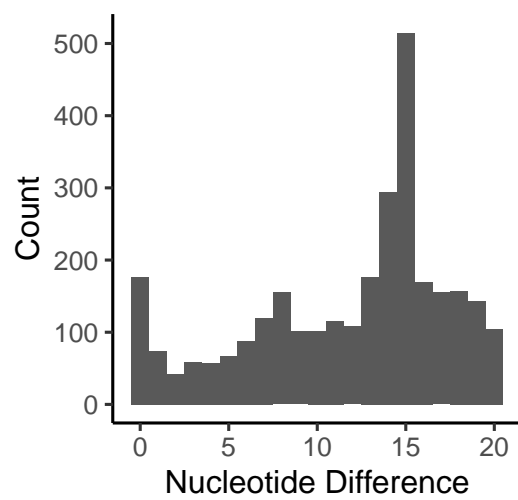
IGHV3-30*04

181 sequences assigned
No exact matches.



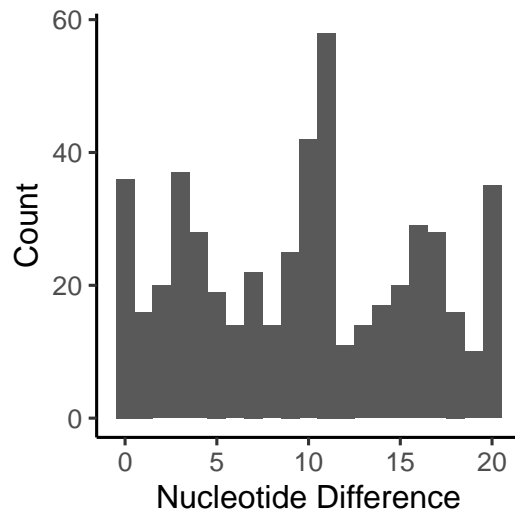
IGHV3–33*01

3911 sequences assigned
177 (4.5%) exact matches, in which:
113 unique CDR3
6 unique J



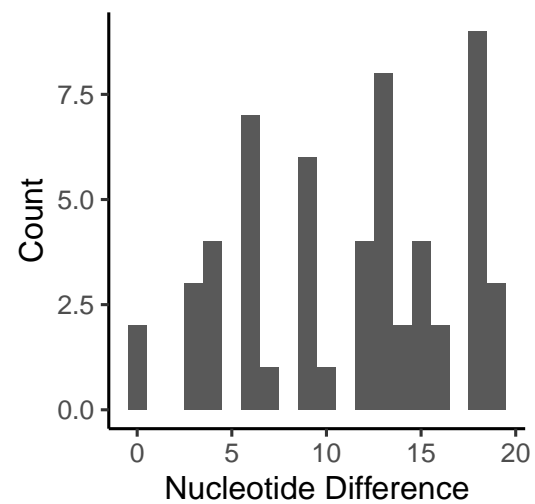
IGHV3–48*02

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



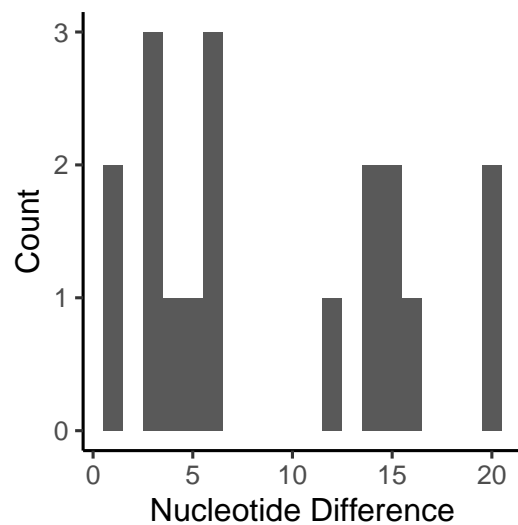
IGHV3–64*01

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



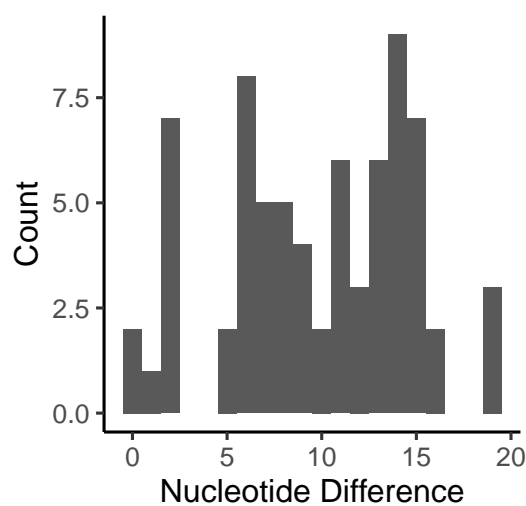
IGHV3–43*01

21 sequences assigned
No exact matches.



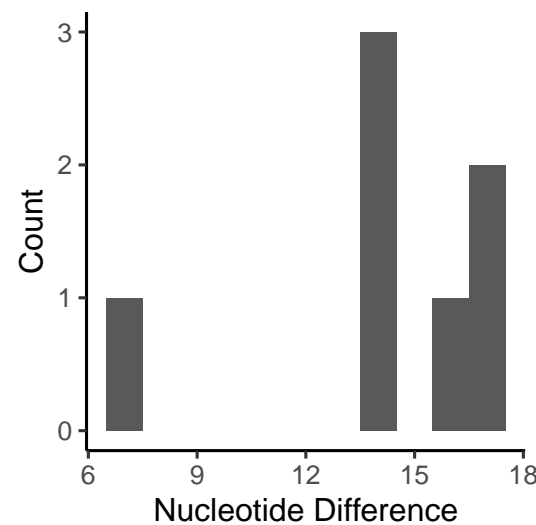
IGHV3–49*03

109 sequences assigned
2 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



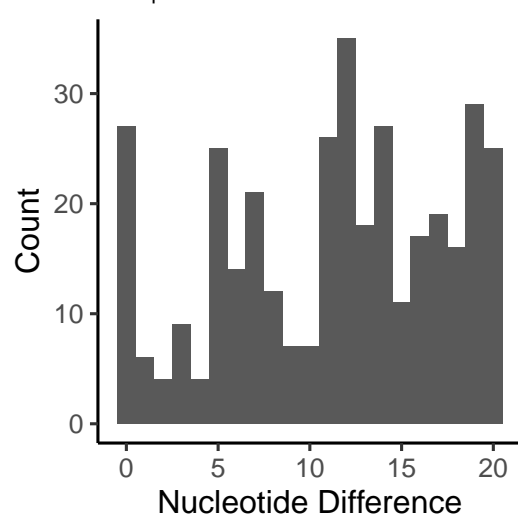
IGHV3–64*07

17 sequences assigned
No exact matches.



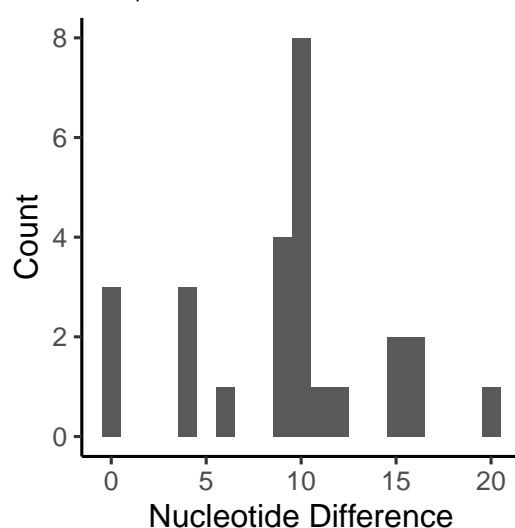
IGHV3–48*01

407 sequences assigned
27 (6.6%) exact matches, in which:
14 unique CDR3
4 unique J



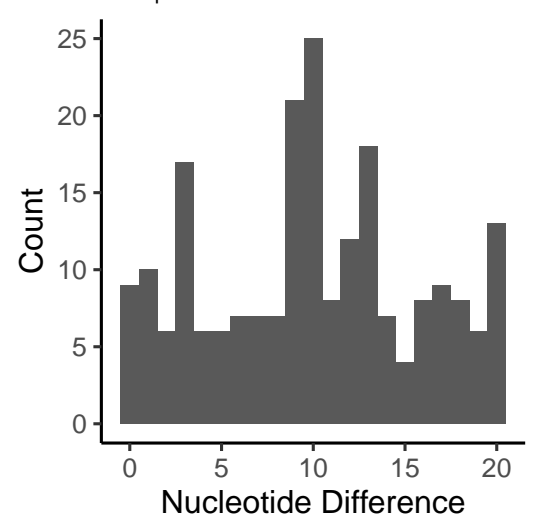
IGHV3–49*05

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



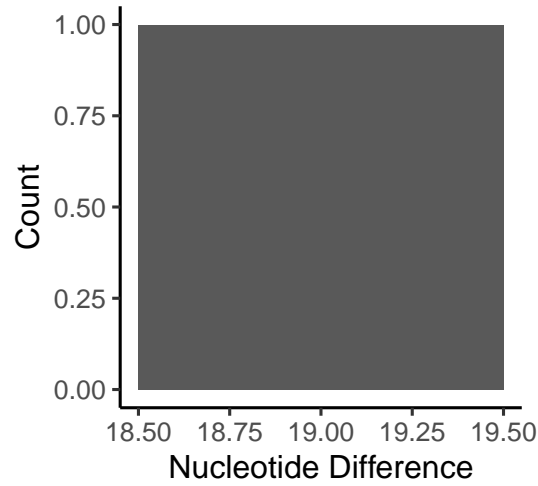
IGHV3–66*02

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



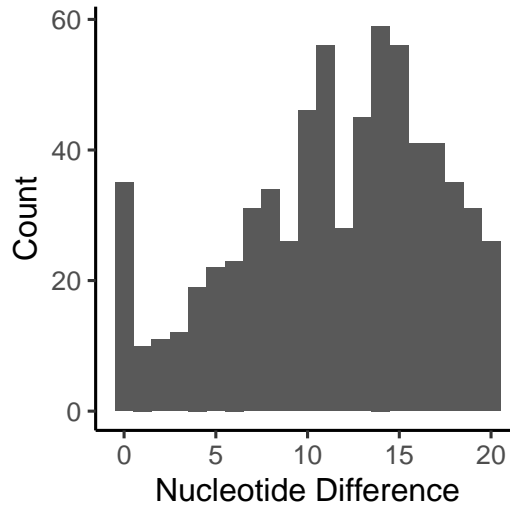
IGHV3-69-1*02

5 sequences assigned
No exact matches.



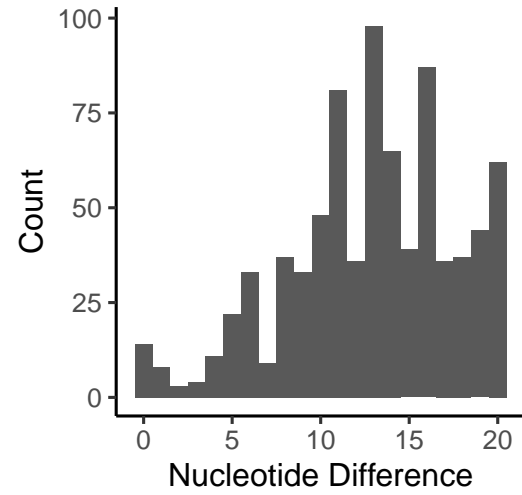
IGHV3-74*01

1014 sequences assigned
35 (3.5%) exact matches, in which:
18 unique CDR3
3 unique J



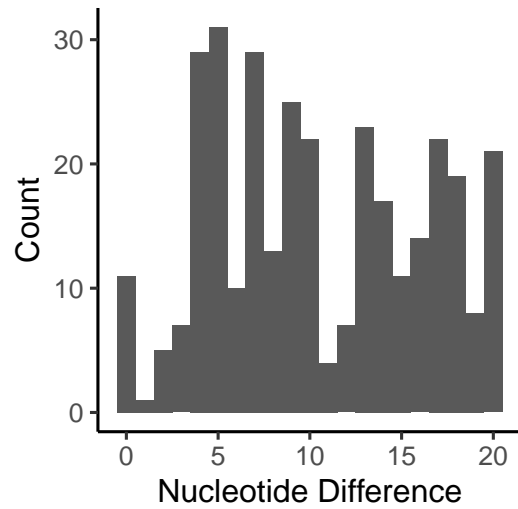
IGHV4-30-4*01

1062 sequences assigned
14 (1.3%) exact matches, in which:
9 unique CDR3
3 unique J



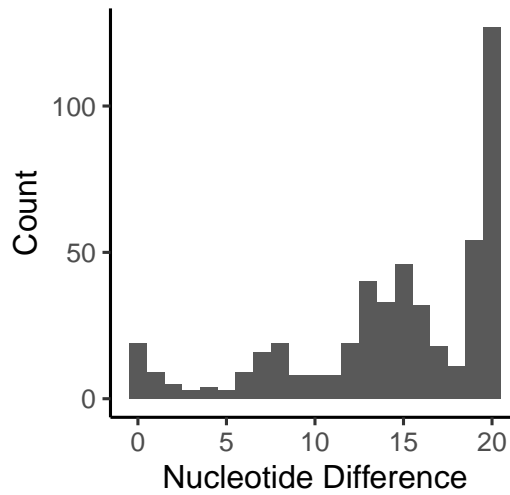
IGHV3-72*01

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



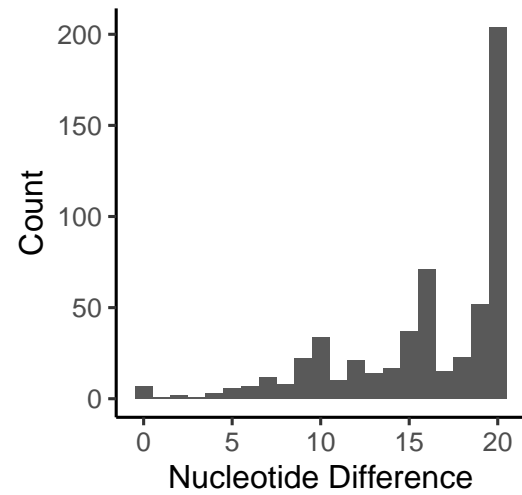
IGHV4-4*02

651 sequences assigned
19 (2.9%) exact matches, in which:
13 unique CDR3
3 unique J



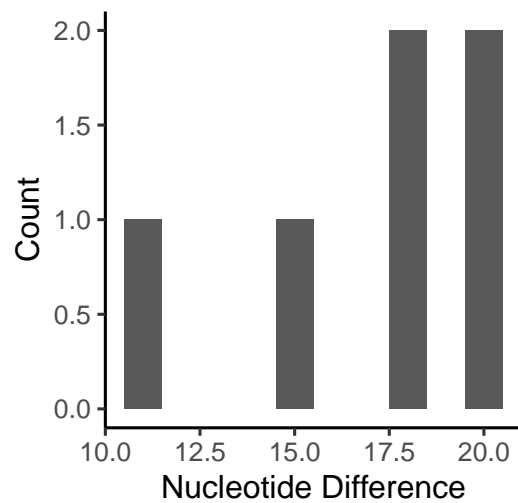
IGHV4-30-2*01

744 sequences assigned
7 (0.9%) exact matches, in which:
5 unique CDR3
3 unique J



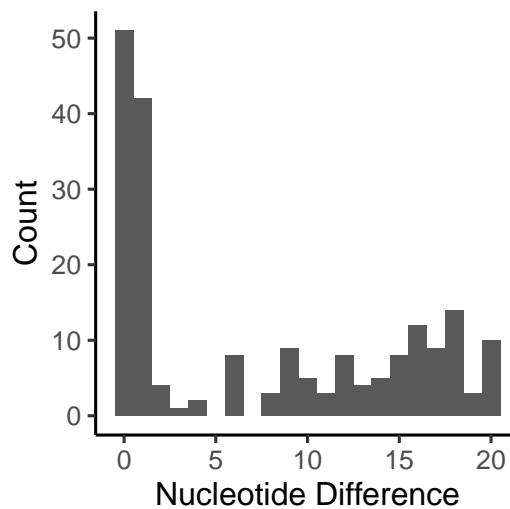
IGHV3-73*01

12 sequences assigned
No exact matches.



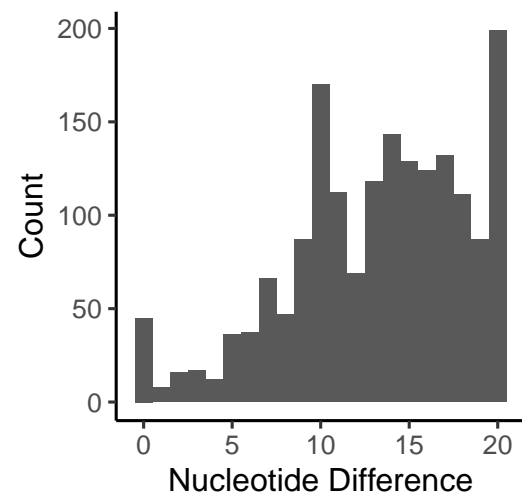
IGHV4-4*07

349 sequences assigned
51 (14.6%) exact matches, in which:
22 unique CDR3
6 unique J



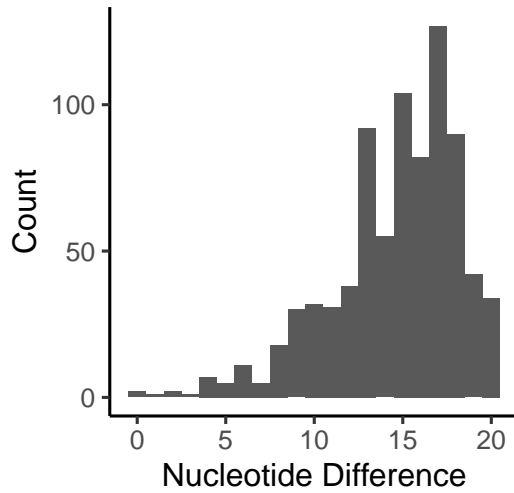
IGHV4-31*03

3702 sequences assigned
45 (1.2%) exact matches, in which:
28 unique CDR3
5 unique J



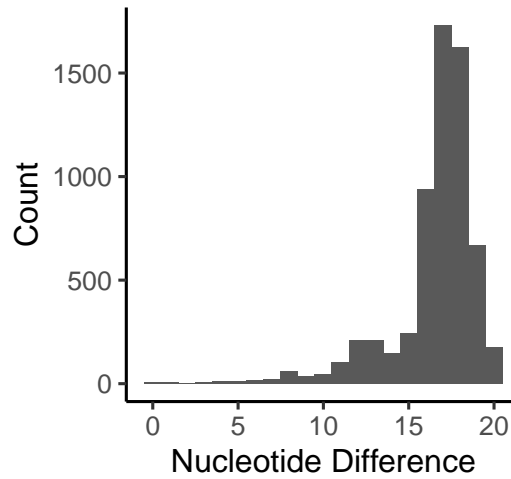
IGHV4-39*01

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



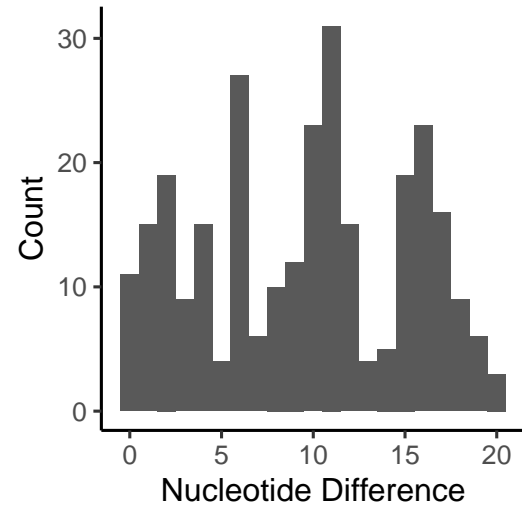
IGHV4-61*02

6790 sequences assigned
8 (0.1%) exact matches, in which:
4 unique CDR3
3 unique J



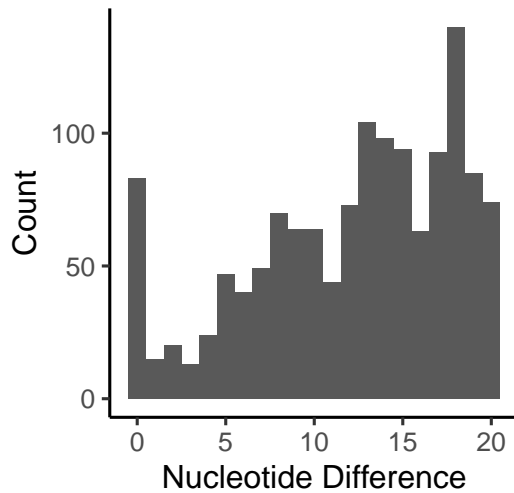
IGHV6-1*01

300 sequences assigned
11 (3.7%) exact matches, in which:
5 unique CDR3
3 unique J



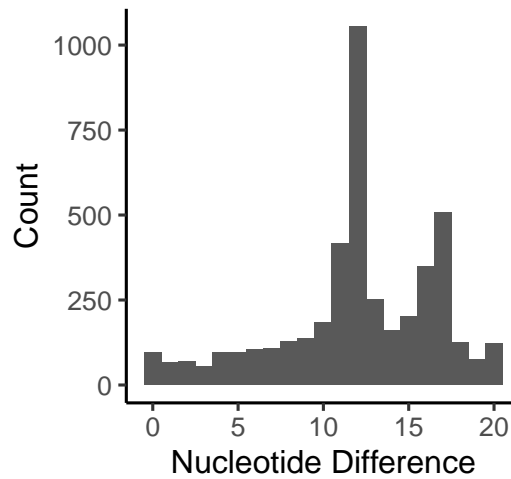
IGHV4-59*01

1742 sequences assigned
83 (4.8%) exact matches, in which:
47 unique CDR3
5 unique J



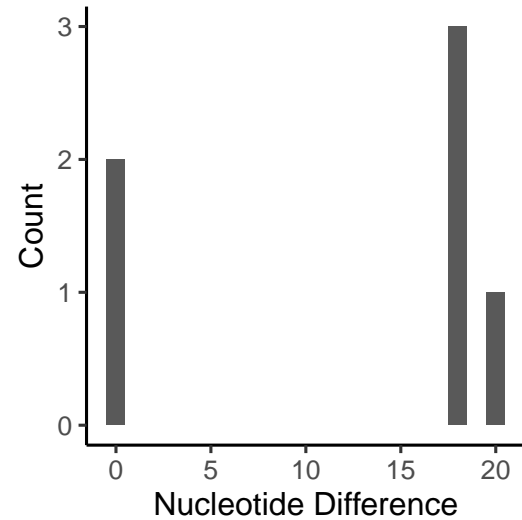
IGHV5-51*01

4954 sequences assigned
95 (1.9%) exact matches, in which:
50 unique CDR3
4 unique J



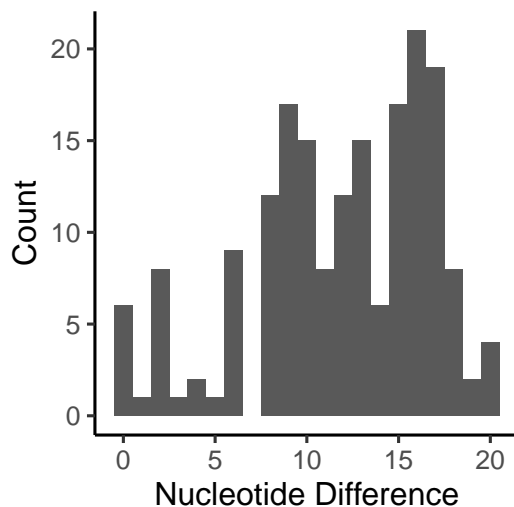
IGHV7-4-1*01

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



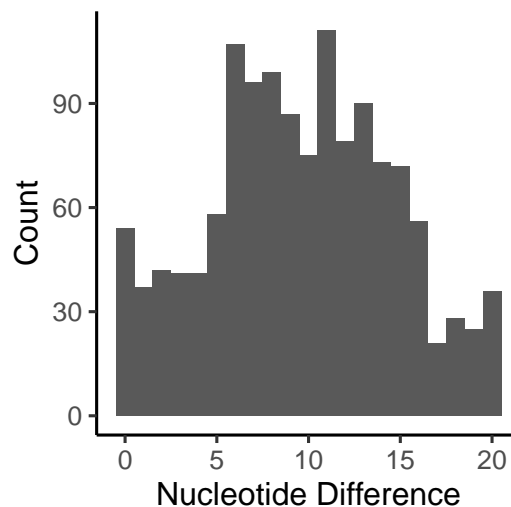
IGHV4-61*01

242 sequences assigned
6 (2.5%) exact matches, in which:
3 unique CDR3
2 unique J



IGHV5-51*03

1413 sequences assigned
54 (3.8%) exact matches, in which:
29 unique CDR3
4 unique J



IGHV7-4-1*02

1 sequences assigned
No exact matches.

