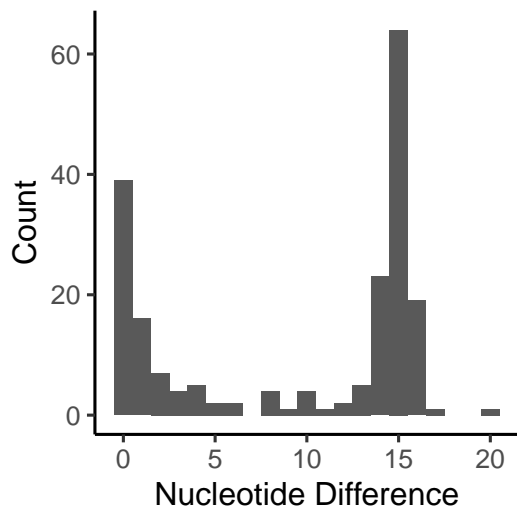


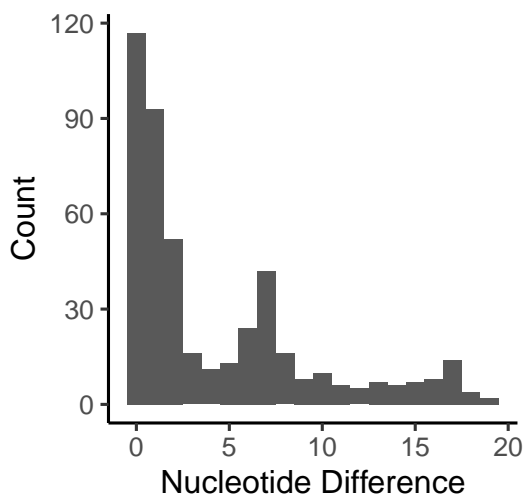
IGHV1-2*04

209 sequences assigned
39 (18.7%) exact matches, in which:
34 unique CDR3
5 unique J



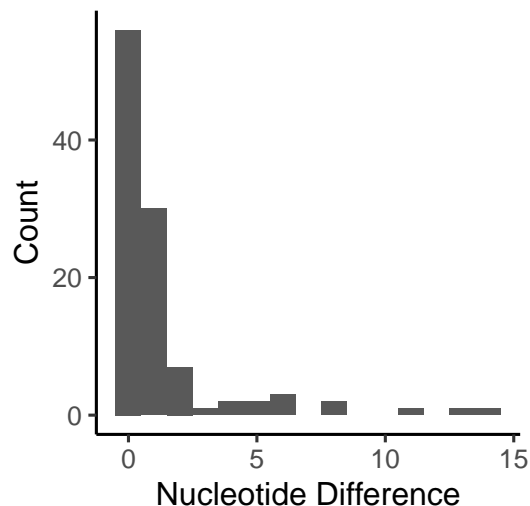
IGHV1-8*01

465 sequences assigned
117 (25.2%) exact matches, in which:
95 unique CDR3
4 unique J



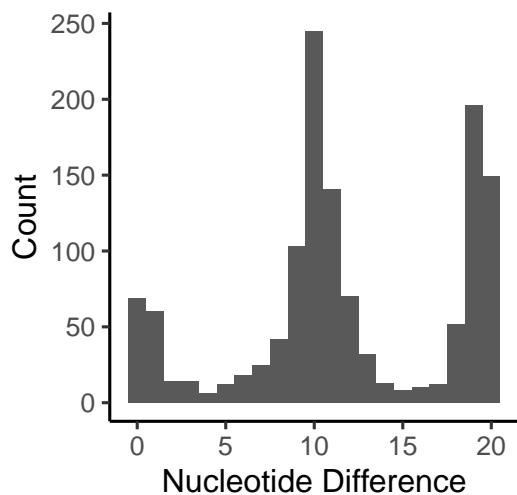
IGHV1-24*01

106 sequences assigned
56 (52.8%) exact matches, in which:
52 unique CDR3
5 unique J



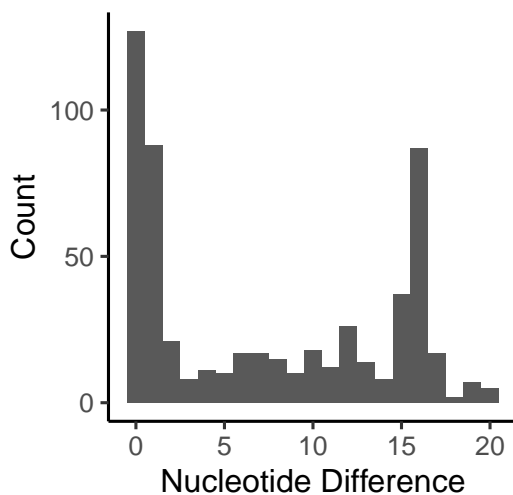
IGHV1-2*06

1366 sequences assigned
69 (5.1%) exact matches, in which:
63 unique CDR3
4 unique J



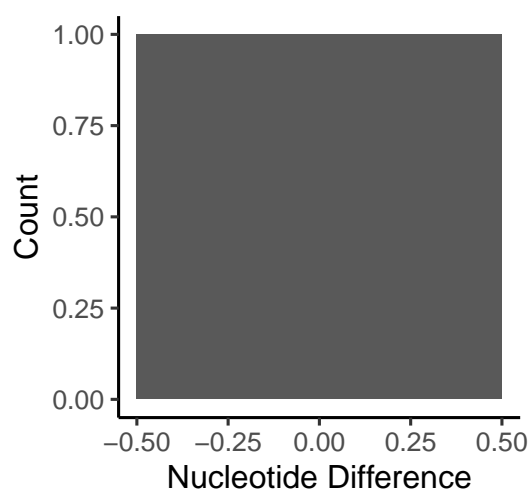
IGHV1-18*01

616 sequences assigned
127 (20.6%) exact matches, in which:
118 unique CDR3
4 unique J



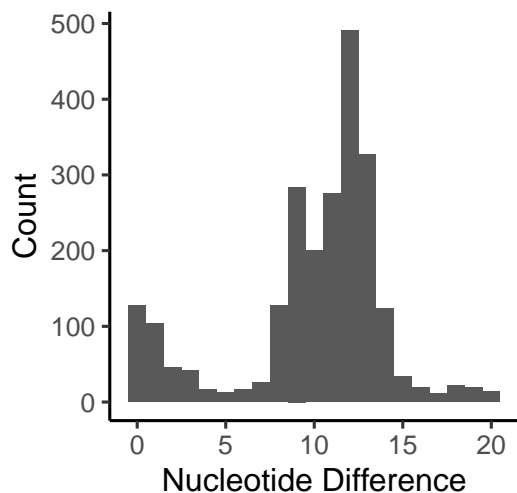
IGHV1-45*02

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



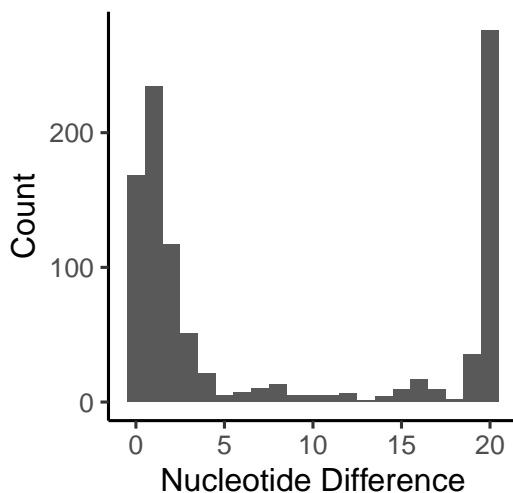
IGHV1-3*01

2401 sequences assigned
127 (5.3%) exact matches, in which:
120 unique CDR3
4 unique J



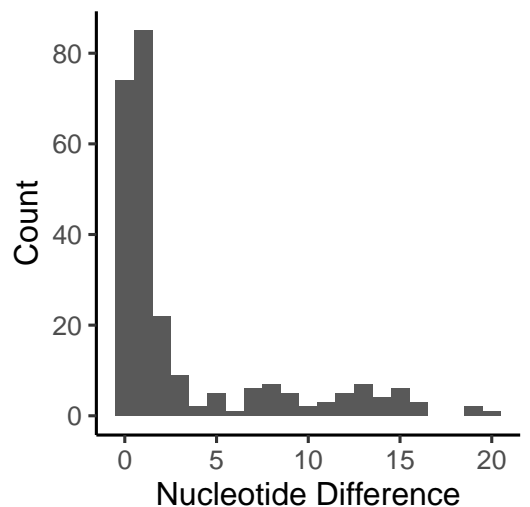
IGHV1-18*04

2537 sequences assigned
168 (6.6%) exact matches, in which:
129 unique CDR3
6 unique J



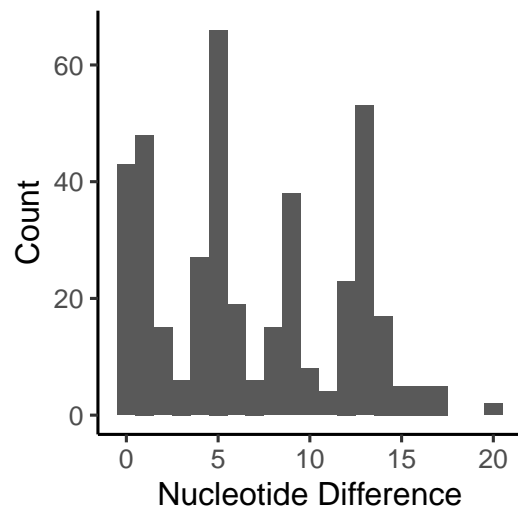
IGHV1-46*01

489 sequences assigned
74 (15.1%) exact matches, in which:
64 unique CDR3
4 unique J



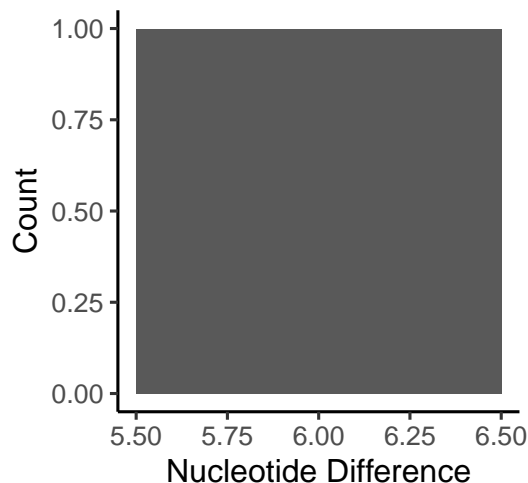
IGHV1-46*03

412 sequences assigned
43 (10.4%) exact matches, in which:
29 unique CDR3
5 unique J



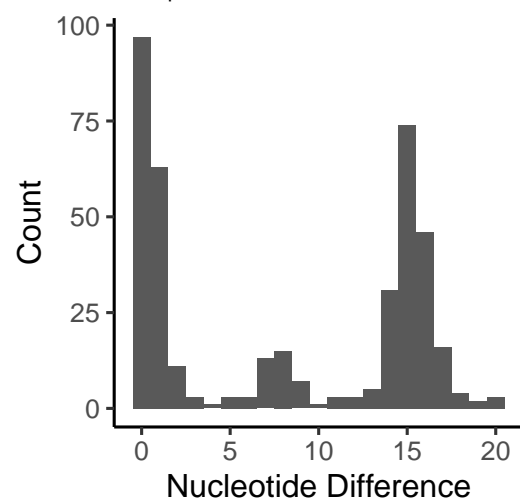
IGHV1-68*02

1 sequences assigned
No exact matches.



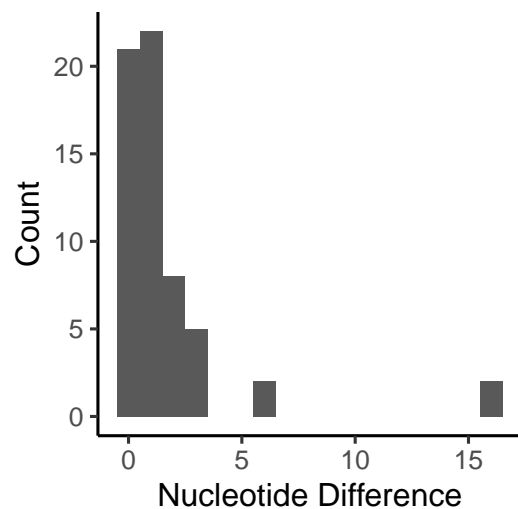
IGHV1-69*06

410 sequences assigned
97 (23.7%) exact matches, in which:
92 unique CDR3
4 unique J



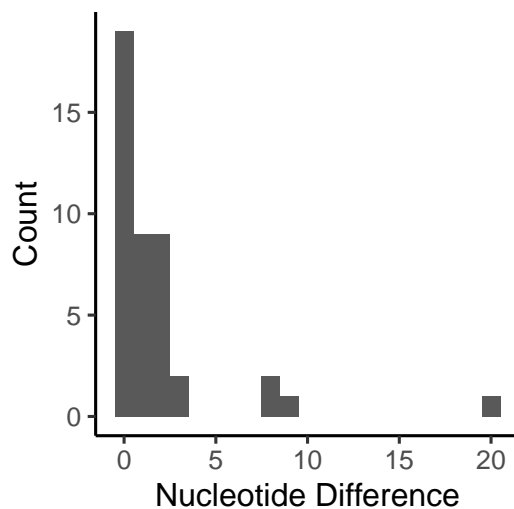
IGHV1-58*01

62 sequences assigned
21 (33.9%) exact matches, in which:
14 unique CDR3
3 unique J



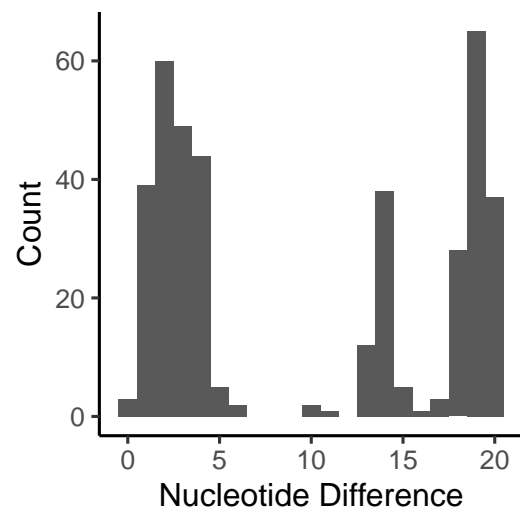
IGHV1-69-2*01

44 sequences assigned
19 (43.2%) exact matches, in which:
19 unique CDR3
4 unique J



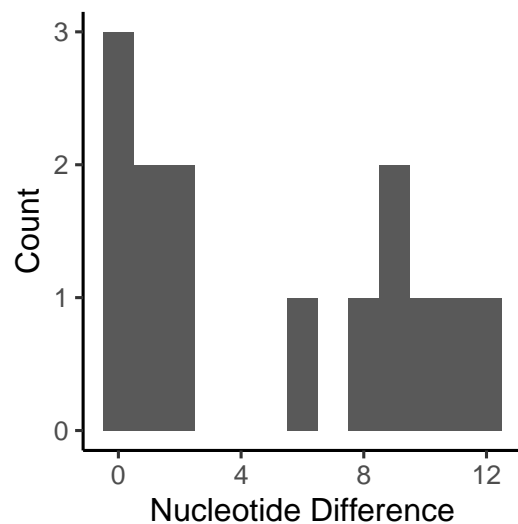
IGHV1-69*08

395 sequences assigned
3 (0.8%) exact matches, in which:
2 unique CDR3
1 unique J



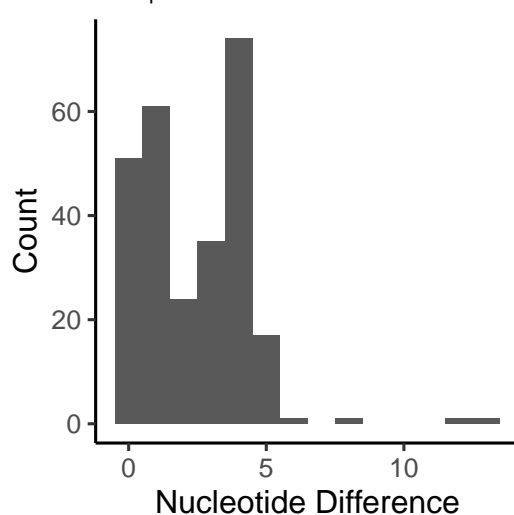
IGHV1-58*02

14 sequences assigned
3 (21.4%) exact matches, in which:
2 unique CDR3
2 unique J



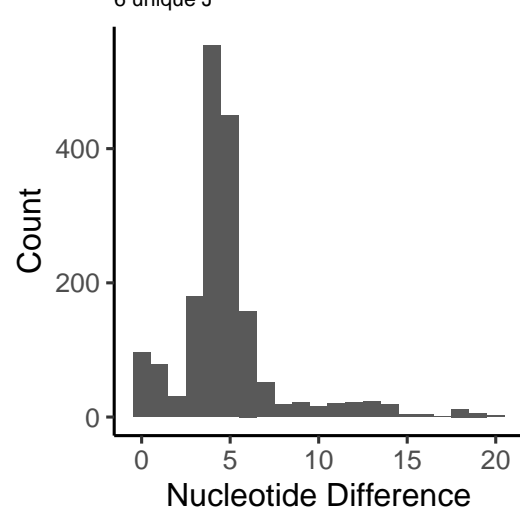
IGHV1-69*02

269 sequences assigned
51 (19%) exact matches, in which:
42 unique CDR3
6 unique J



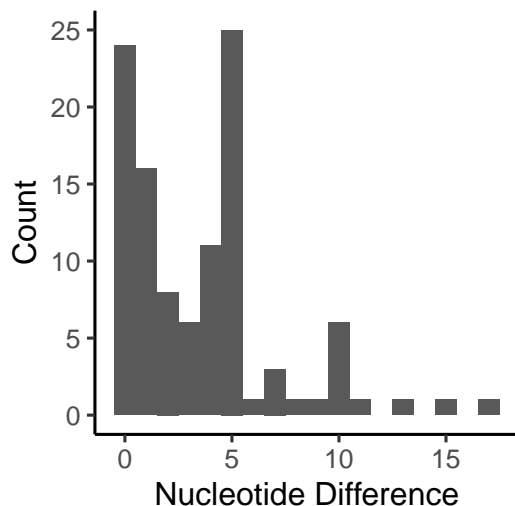
IGHV2-5*02

2030 sequences assigned
96 (4.7%) exact matches, in which:
87 unique CDR3
6 unique J



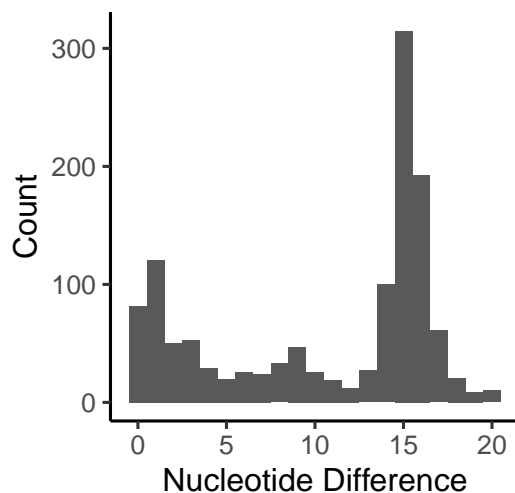
IGHV2-26*01

106 sequences assigned
24 (22.6%) exact matches, in which:
20 unique CDR3
4 unique J



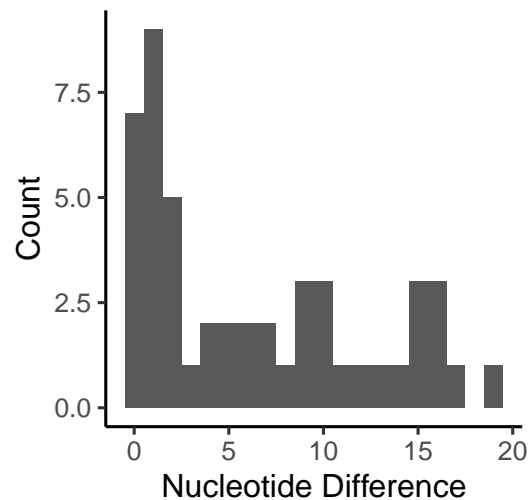
IGHV3-7*03

1312 sequences assigned
82 (6.2%) exact matches, in which:
67 unique CDR3
5 unique J



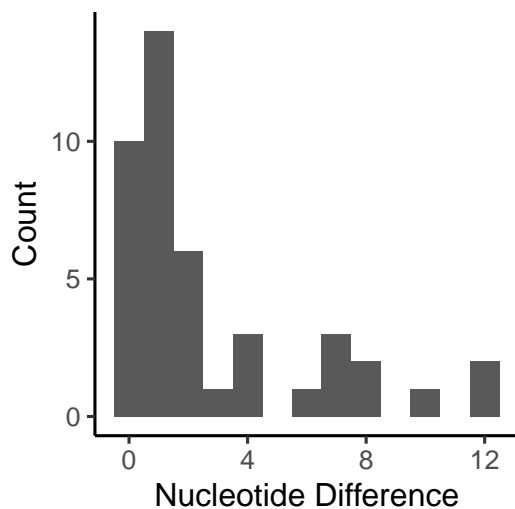
IGHV3-11*06

50 sequences assigned
7 (14%) exact matches, in which:
7 unique CDR3
3 unique J



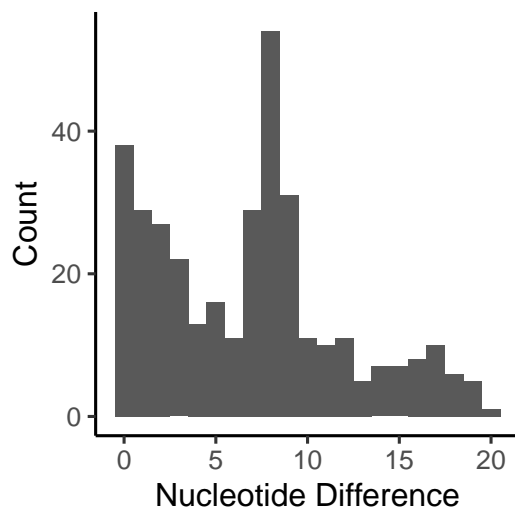
IGHV2-70*01

43 sequences assigned
10 (23.3%) exact matches, in which:
9 unique CDR3
4 unique J



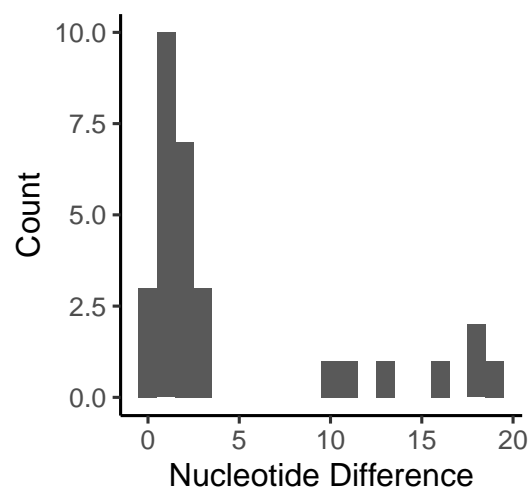
IGHV3-9*01

402 sequences assigned
38 (9.5%) exact matches, in which:
37 unique CDR3
5 unique J



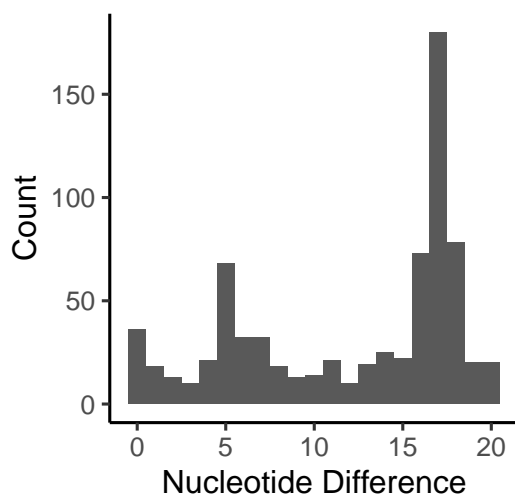
IGHV3-13*01

320 sequences assigned
3 (0.9%) exact matches, in which:
3 unique CDR3
2 unique J



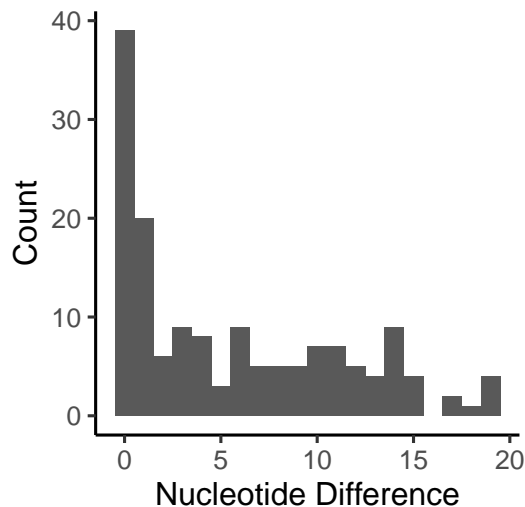
IGHV3-7*01

818 sequences assigned
36 (4.4%) exact matches, in which:
36 unique CDR3
4 unique J



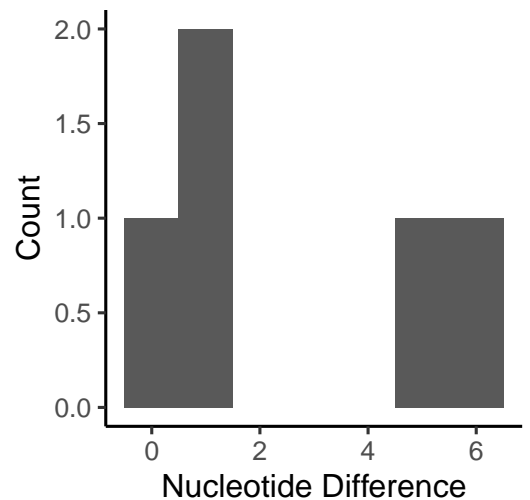
IGHV3-11*01

168 sequences assigned
39 (23.2%) exact matches, in which:
38 unique CDR3
5 unique J



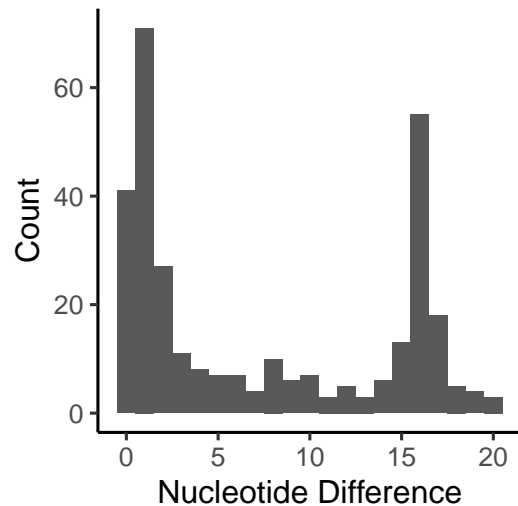
IGHV3-13*05

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



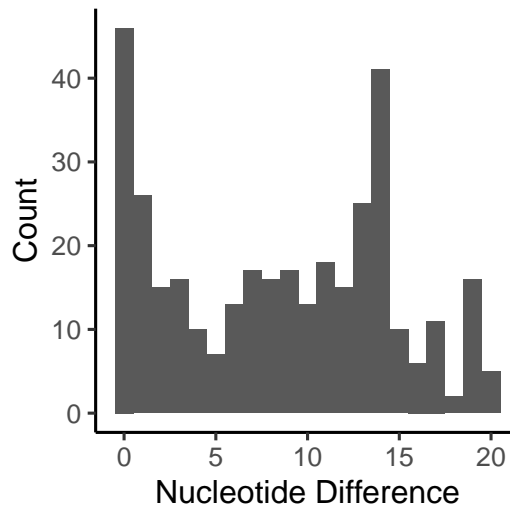
IGHV3-15*01

842 sequences assigned
41 (4.9%) exact matches, in which:
36 unique CDR3
5 unique J



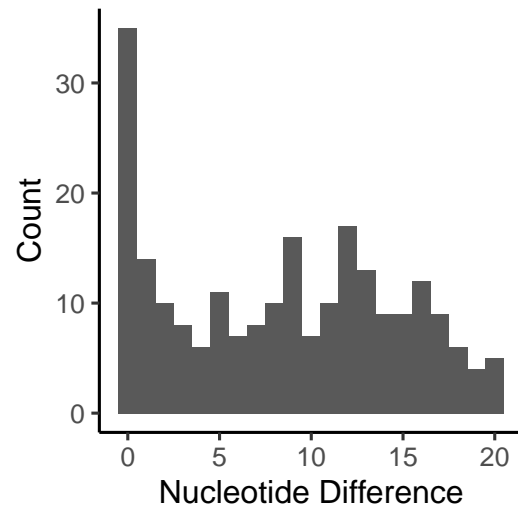
IGHV3-23*04

658 sequences assigned
46 (7%) exact matches, in which:
44 unique CDR3
5 unique J



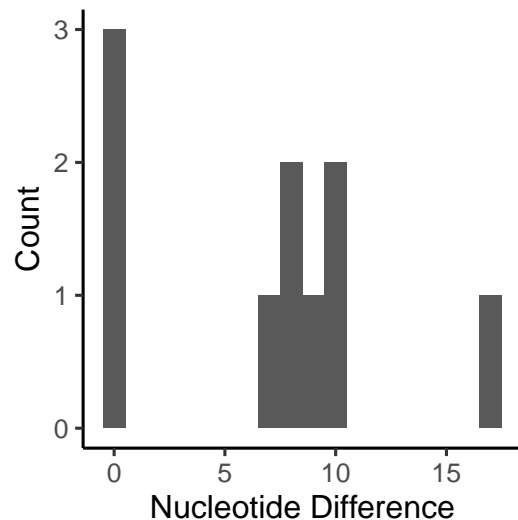
IGHV3-48*01

255 sequences assigned
35 (13.7%) exact matches, in which:
34 unique CDR3
4 unique J



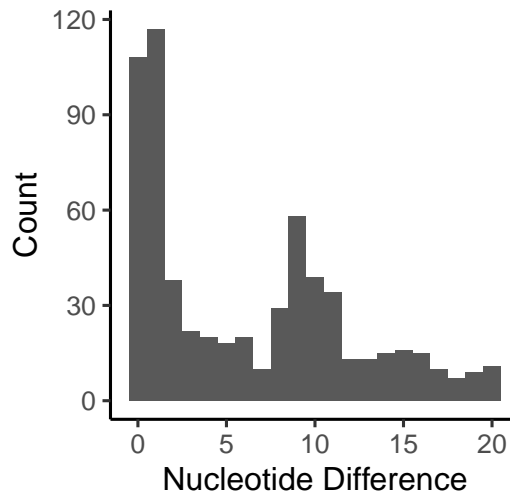
IGHV3-20*01

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



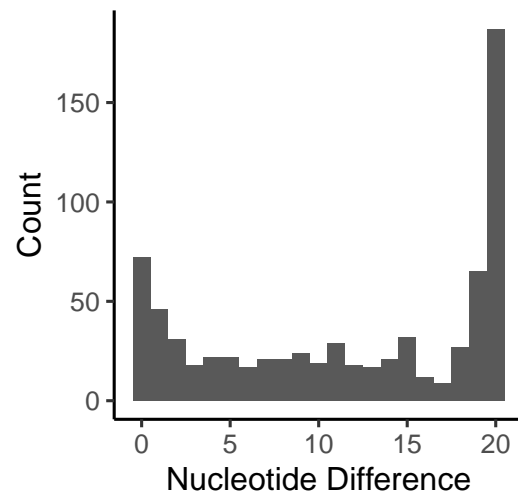
IGHV3-33*01

661 sequences assigned
108 (16.3%) exact matches, in which:
93 unique CDR3
5 unique J



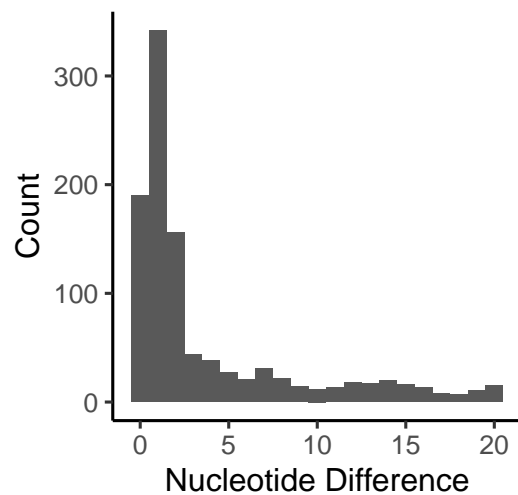
IGHV3-48*03

1010 sequences assigned
72 (7.1%) exact matches, in which:
72 unique CDR3
6 unique J



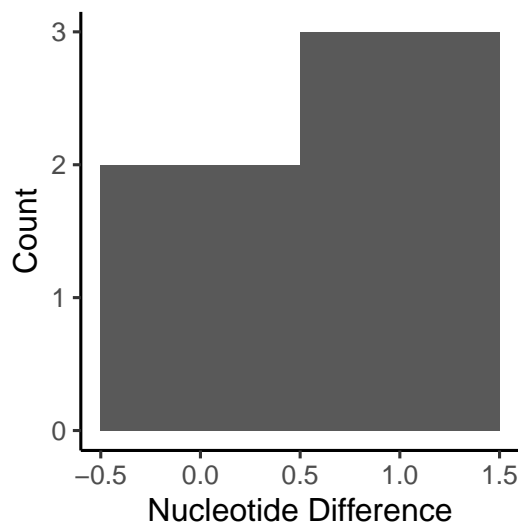
IGHV3-21*01

1516 sequences assigned
190 (12.5%) exact matches, in which:
129 unique CDR3
6 unique J



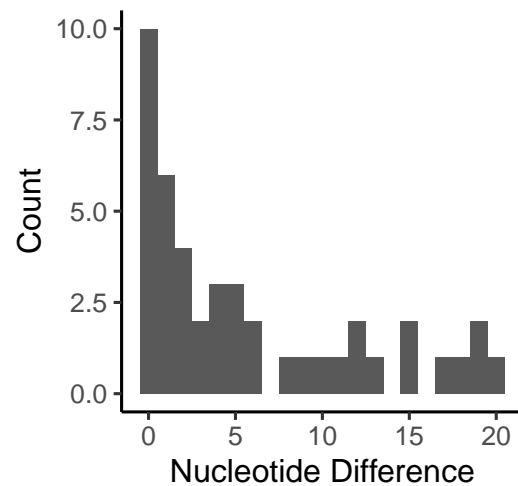
IGHV3-43*01

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



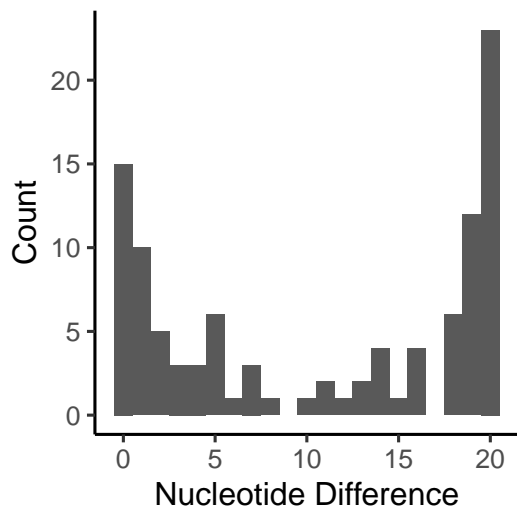
IGHV3-49*03

44 sequences assigned
10 (22.7%) exact matches, in which:
10 unique CDR3
4 unique J



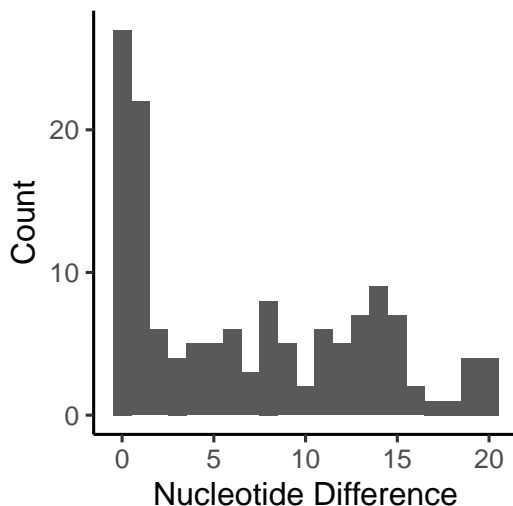
IGHV3-49*04

147 sequences assigned
15 (10.2%) exact matches, in which:
15 unique CDR3
2 unique J



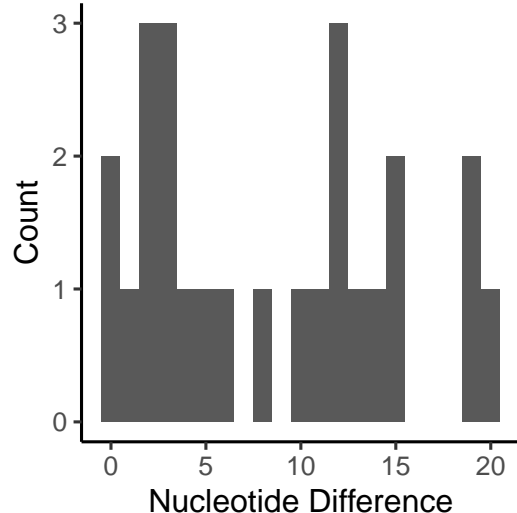
IGHV3-66*02

186 sequences assigned
27 (14.5%) exact matches, in which:
25 unique CDR3
4 unique J



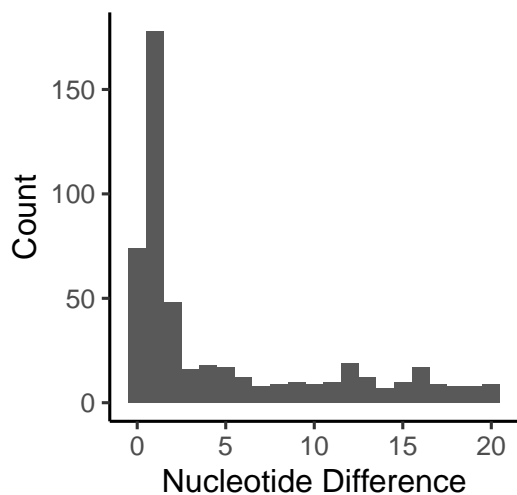
IGHV3-73*02

28 sequences assigned
2 (7.1%) exact matches, in which:
2 unique CDR3
1 unique J



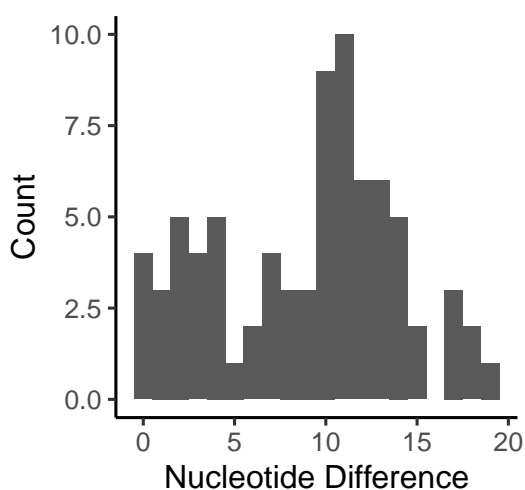
IGHV3-53*02

562 sequences assigned
74 (13.2%) exact matches, in which:
56 unique CDR3
4 unique J



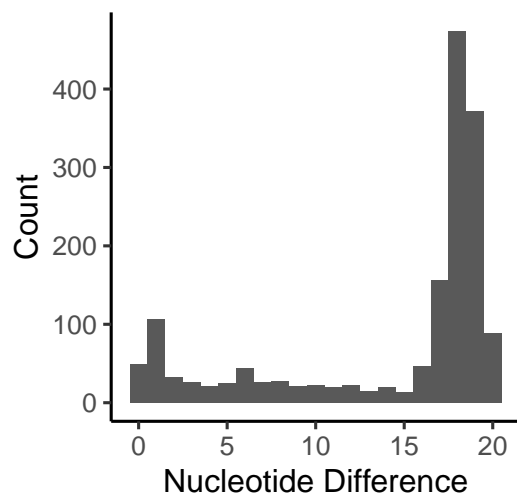
IGHV3-72*01

90 sequences assigned
4 (4.4%) exact matches, in which:
4 unique CDR3
3 unique J



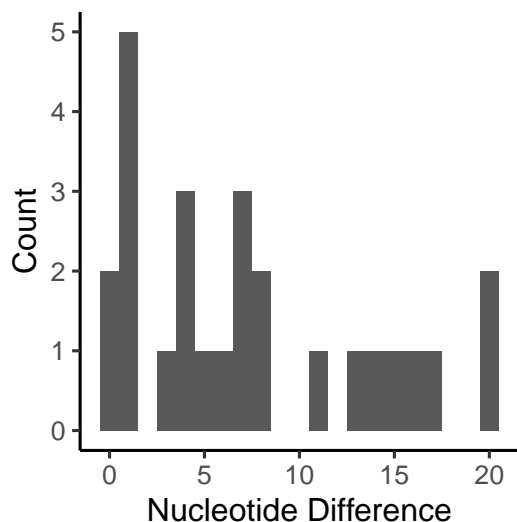
IGHV3-74*01

1940 sequences assigned
49 (2.5%) exact matches, in which:
39 unique CDR3
5 unique J



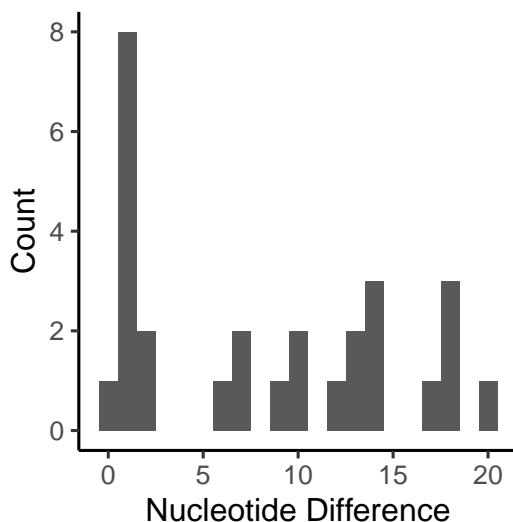
IGHV3-64*01

32 sequences assigned
2 (6.2%) exact matches, in which:
2 unique CDR3
2 unique J



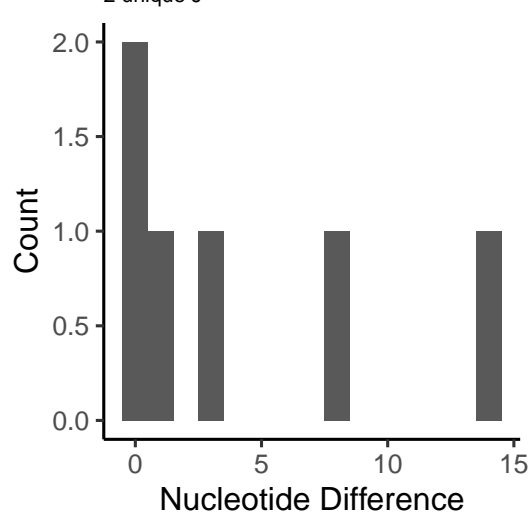
IGHV3-73*01

36 sequences assigned
1 (2.8%) exact matches, in which:
1 unique CDR3
1 unique J



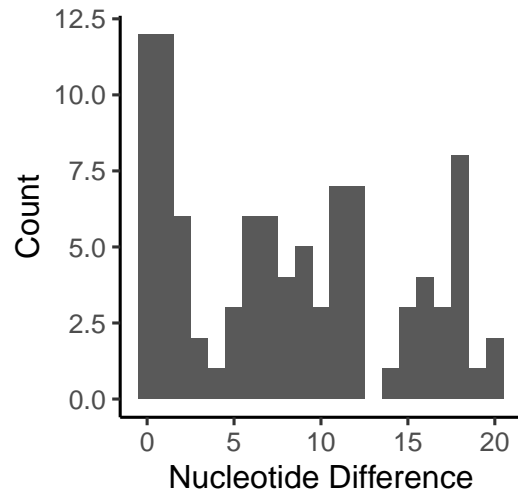
IGHV3-43D*04

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



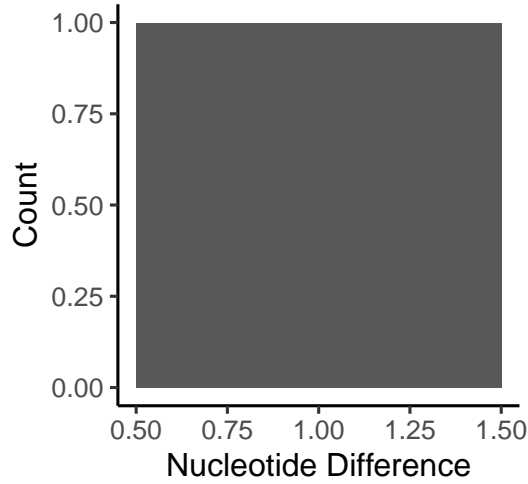
IGHV3-64D*06

115 sequences assigned
12 (10.4%) exact matches, in which:
12 unique CDR3
2 unique J



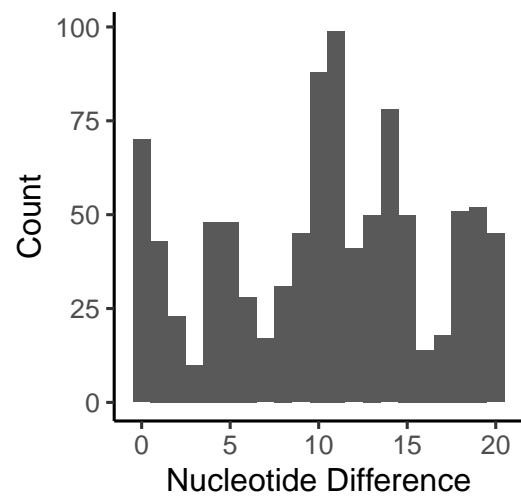
IGHV4-28*07

6 sequences assigned
No exact matches.



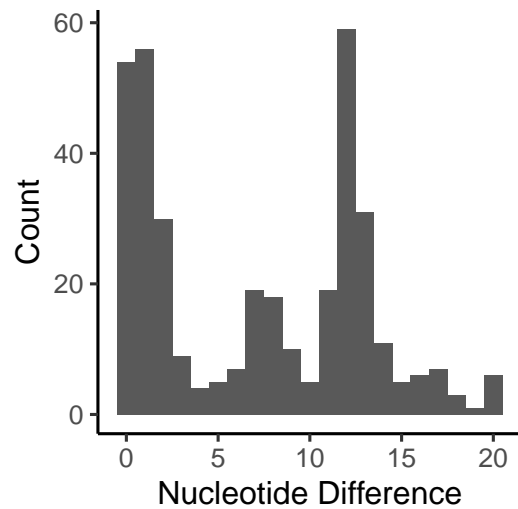
IGHV4-34*01

1321 sequences assigned
70 (5.3%) exact matches, in which:
70 unique CDR3
5 unique J



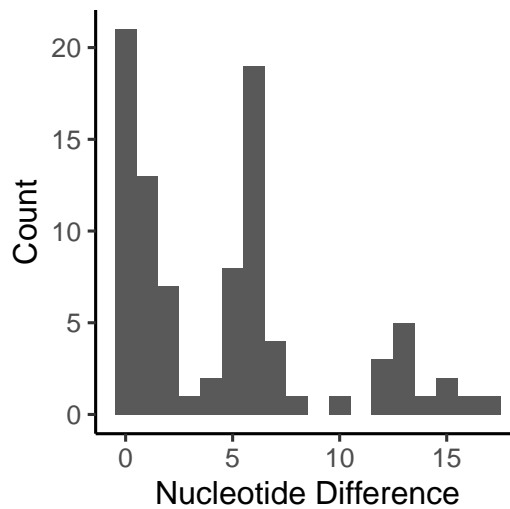
IGHV4-4*02

495 sequences assigned
54 (10.9%) exact matches, in which:
48 unique CDR3
4 unique J



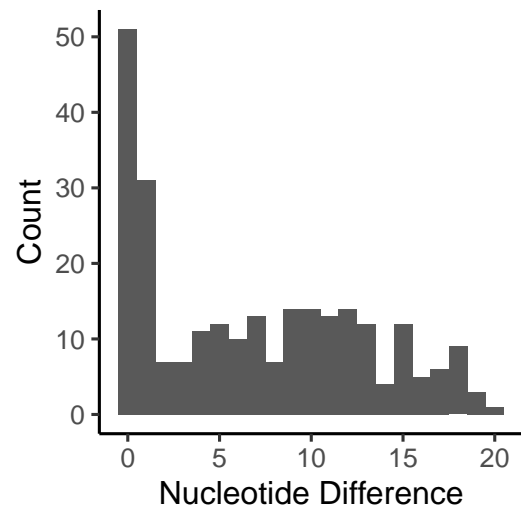
IGHV4-30-2*01

91 sequences assigned
21 (23.1%) exact matches, in which:
20 unique CDR3
4 unique J



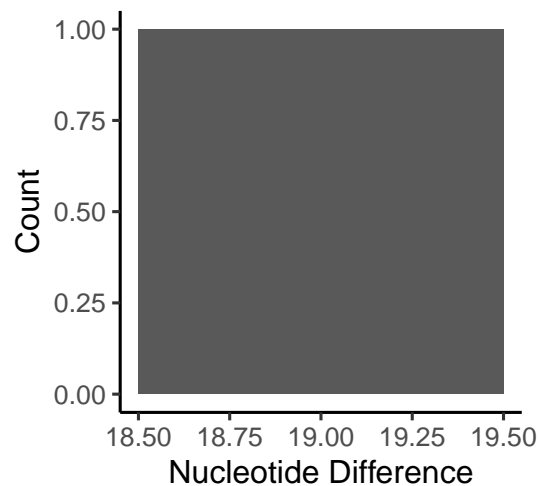
IGHV4-38-2*01

645 sequences assigned
51 (7.9%) exact matches, in which:
44 unique CDR3
5 unique J



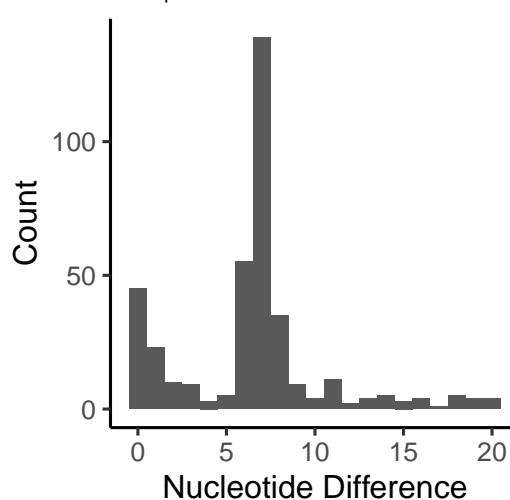
IGHV4-28*03

1 sequences assigned
No exact matches.



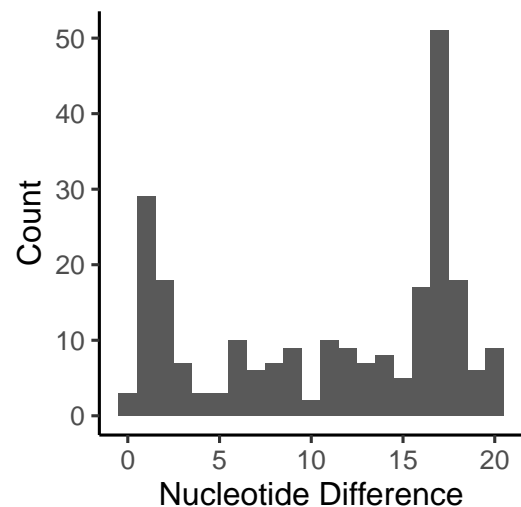
IGHV4-31*03

862 sequences assigned
45 (5.2%) exact matches, in which:
42 unique CDR3
5 unique J



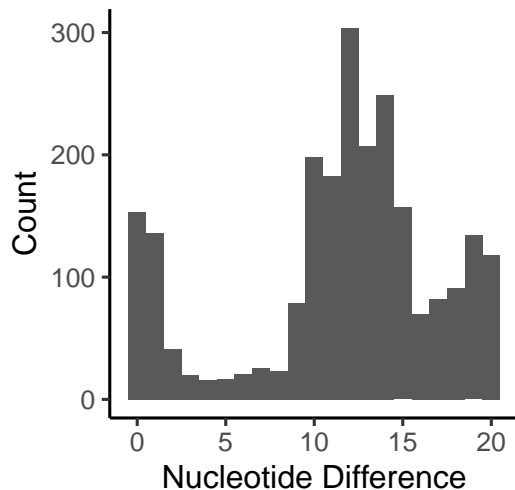
IGHV4-38-2*02

262 sequences assigned
3 (1.1%) exact matches, in which:
3 unique CDR3
2 unique J



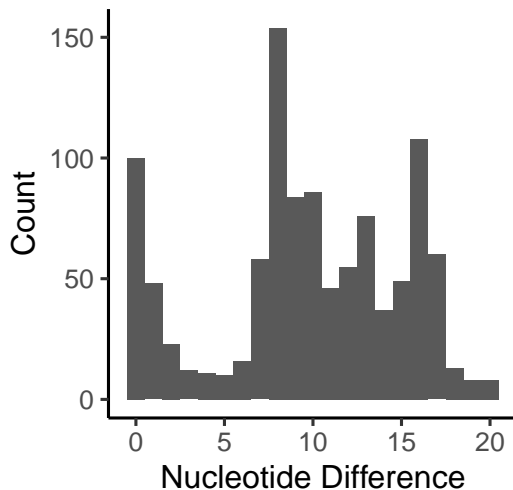
IGHV4–39*01

2552 sequences assigned
153 (6%) exact matches, in which:
139 unique CDR3
6 unique J



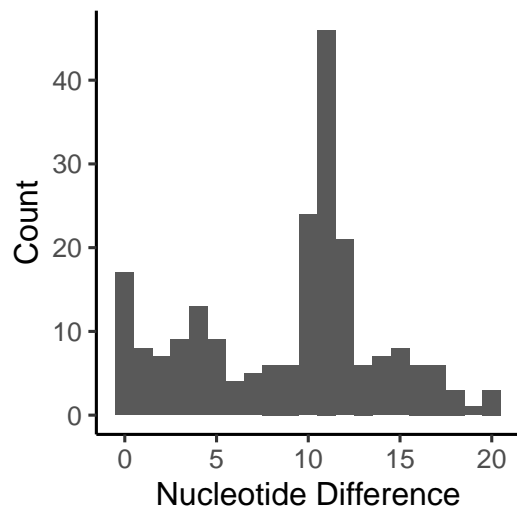
IGHV4–61*02

1398 sequences assigned
100 (7.2%) exact matches, in which:
89 unique CDR3
6 unique J



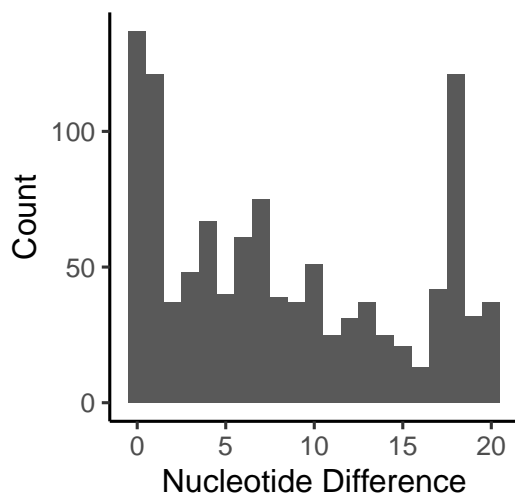
IGHV5–51*03

276 sequences assigned
17 (6.2%) exact matches, in which:
17 unique CDR3
4 unique J



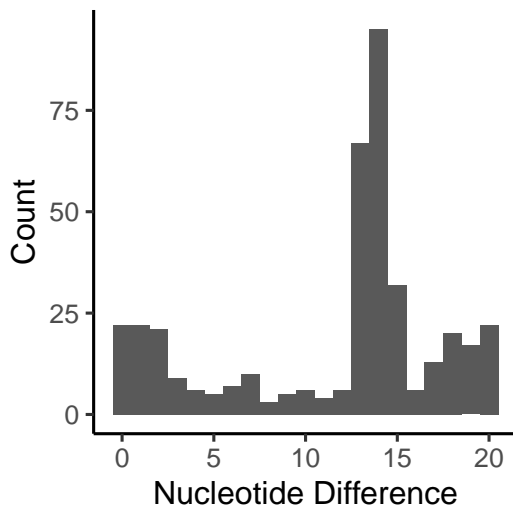
IGHV4–59*01

1438 sequences assigned
137 (9.5%) exact matches, in which:
117 unique CDR3
6 unique J



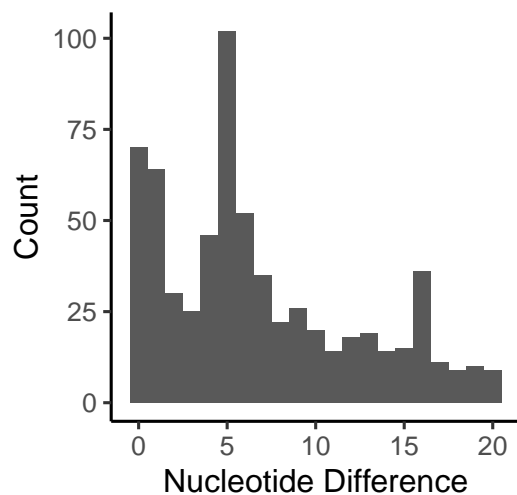
IGHV5–10–1*03

451 sequences assigned
22 (4.9%) exact matches, in which:
22 unique CDR3
3 unique J



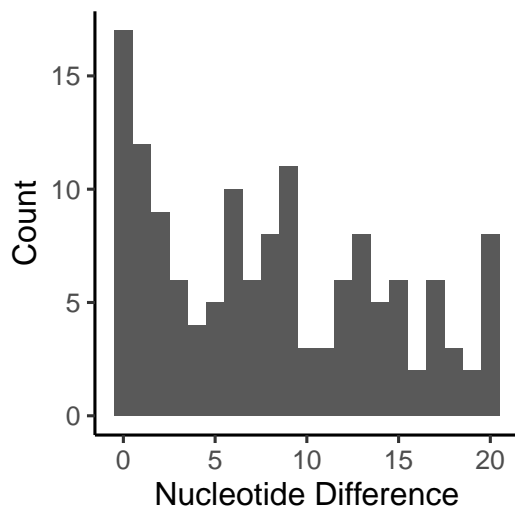
IGHV6–1*01

668 sequences assigned
70 (10.5%) exact matches, in which:
58 unique CDR3
6 unique J



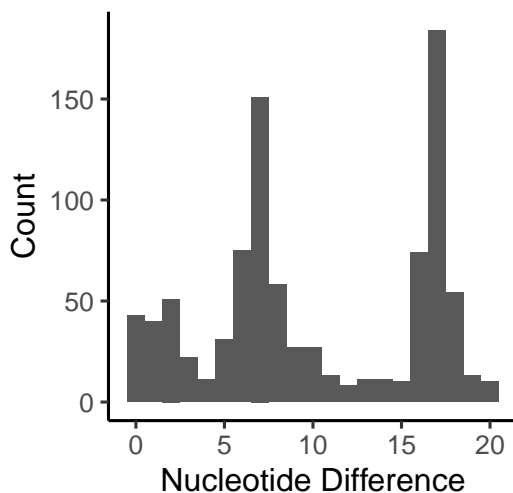
IGHV4–61*01

290 sequences assigned
17 (5.9%) exact matches, in which:
16 unique CDR3
4 unique J



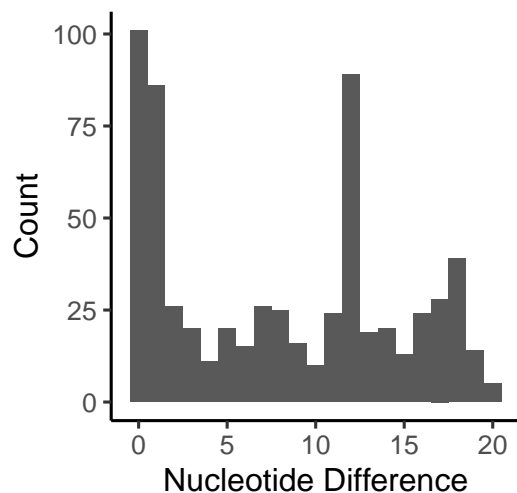
IGHV5–51*01

993 sequences assigned
43 (4.3%) exact matches, in which:
40 unique CDR3
5 unique J



IGHV7–4–1*02

662 sequences assigned
101 (15.3%) exact matches, in which:
88 unique CDR3
6 unique J





Warning – no inferred sequences found.