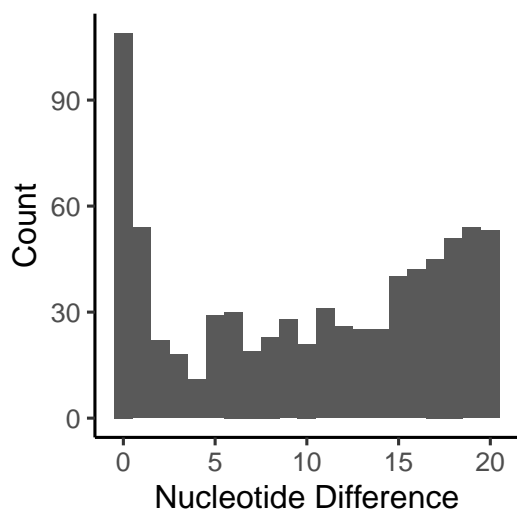


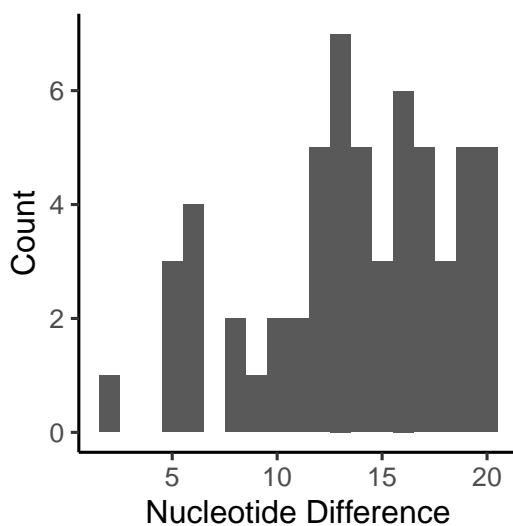
IGHV1-2*02

1337 sequences assigned
109 (8.2%) exact matches, in which:
105 unique CDR3
6 unique J



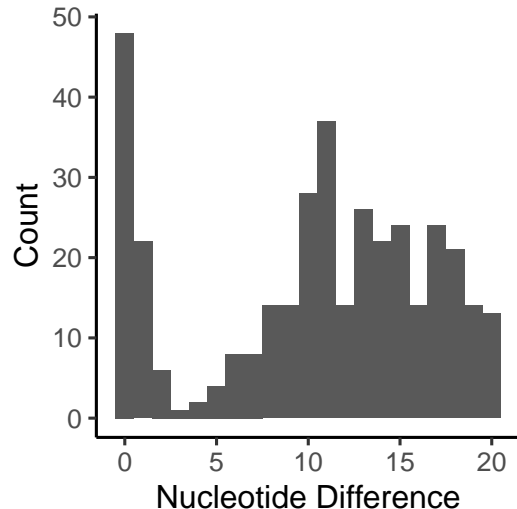
IGHV1-3*04

132 sequences assigned
No exact matches.



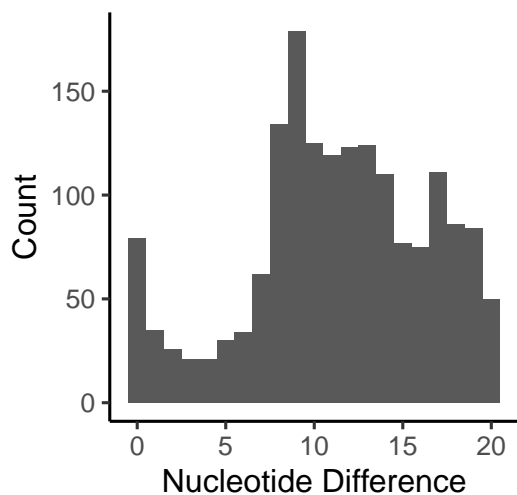
IGHV1-24*01

446 sequences assigned
48 (10.8%) exact matches, in which:
47 unique CDR3
5 unique J



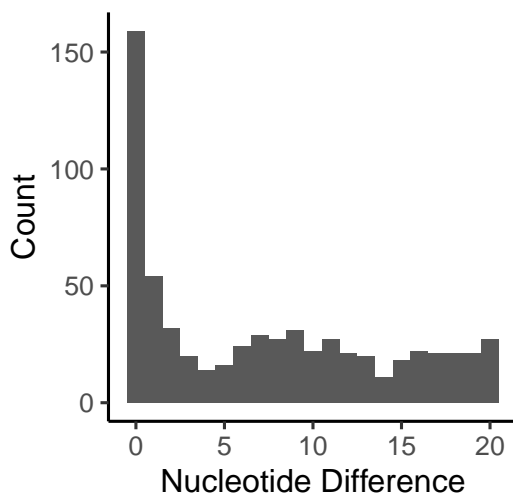
IGHV1-2*06

2201 sequences assigned
79 (3.6%) exact matches, in which:
78 unique CDR3
5 unique J



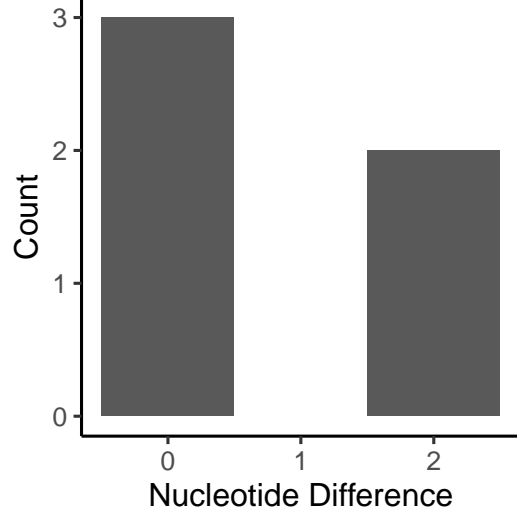
IGHV1-8*01

998 sequences assigned
159 (15.9%) exact matches, in which:
159 unique CDR3
6 unique J



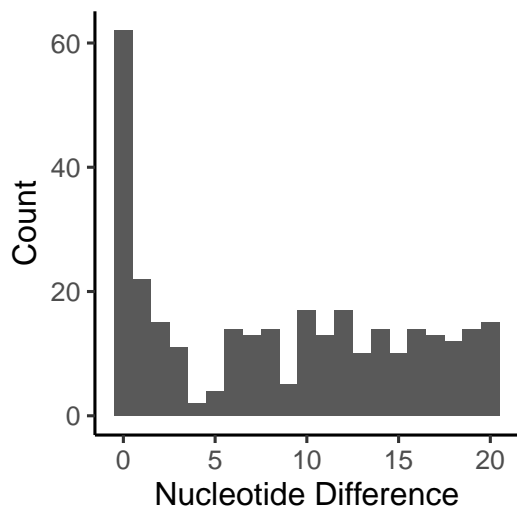
IGHV1-45*02

24 sequences assigned
3 (12.5%) exact matches, in which:
3 unique CDR3
2 unique J



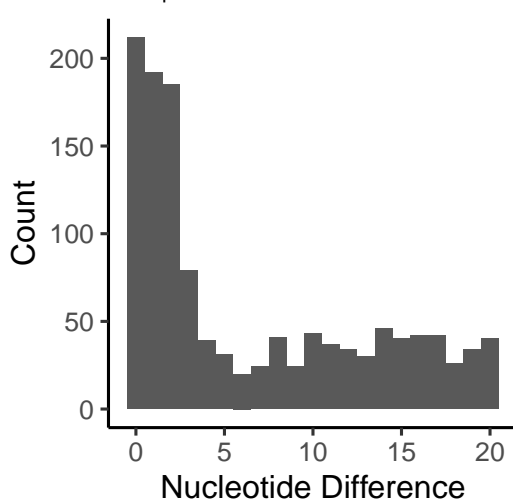
IGHV1-3*01

604 sequences assigned
62 (10.3%) exact matches, in which:
59 unique CDR3
5 unique J



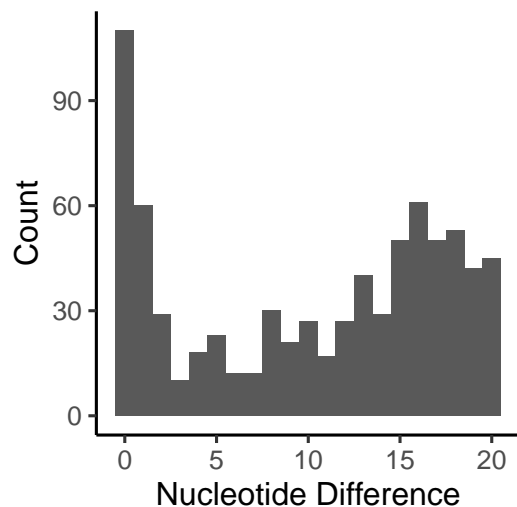
IGHV1-18*01

1855 sequences assigned
212 (11.4%) exact matches, in which:
169 unique CDR3
5 unique J



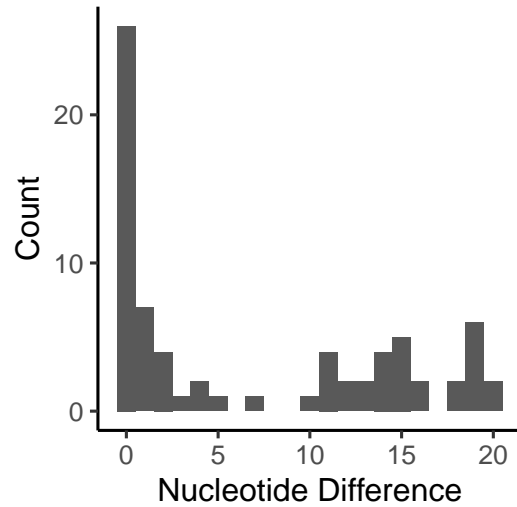
IGHV1-46*01

2154 sequences assigned
110 (5.1%) exact matches, in which:
105 unique CDR3
4 unique J



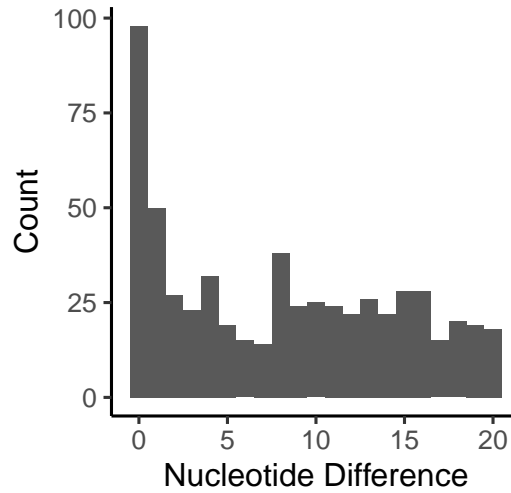
IGHV1-58*01

147 sequences assigned
26 (17.7%) exact matches, in which:
26 unique CDR3
6 unique J



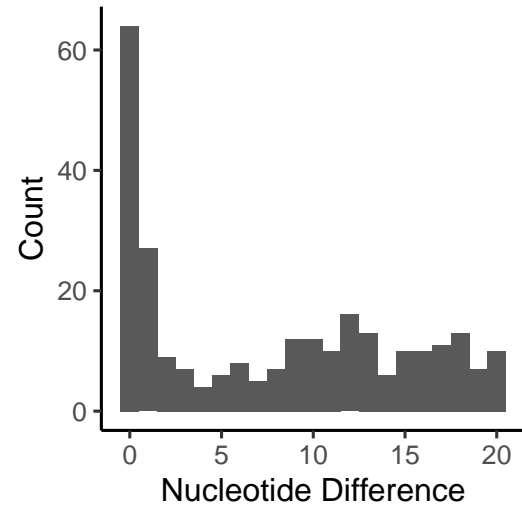
IGHV2-5*01

749 sequences assigned
98 (13.1%) exact matches, in which:
92 unique CDR3
6 unique J



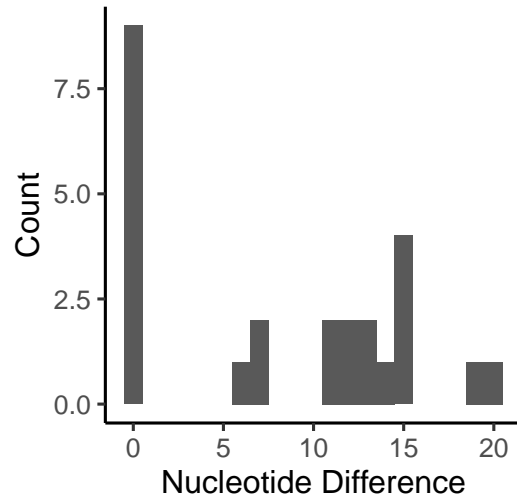
IGHV2-70*01

366 sequences assigned
64 (17.5%) exact matches, in which:
63 unique CDR3
6 unique J



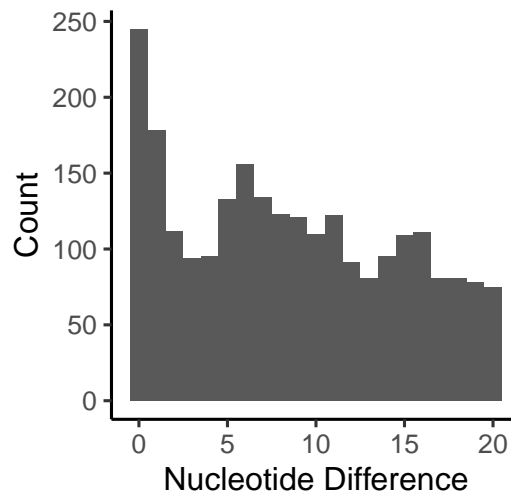
IGHV1-69-2*01

83 sequences assigned
9 (10.8%) exact matches, in which:
9 unique CDR3
4 unique J



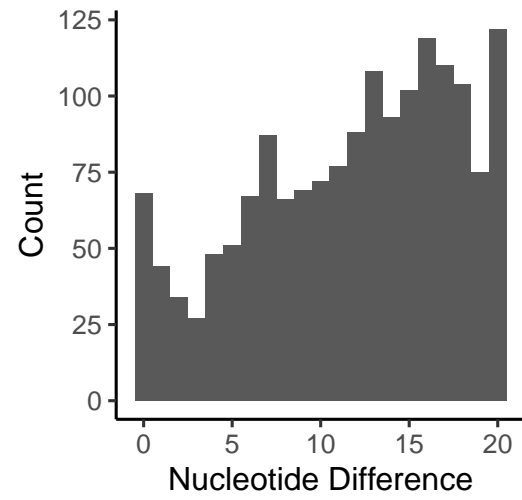
IGHV2-5*02

3120 sequences assigned
245 (7.9%) exact matches, in which:
238 unique CDR3
6 unique J



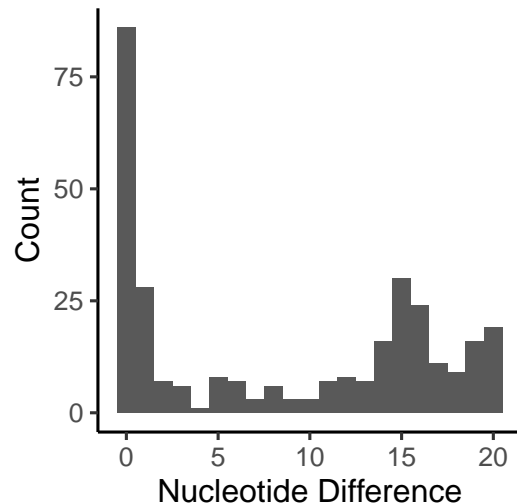
IGHV3-7*01

2481 sequences assigned
68 (2.7%) exact matches, in which:
67 unique CDR3
5 unique J



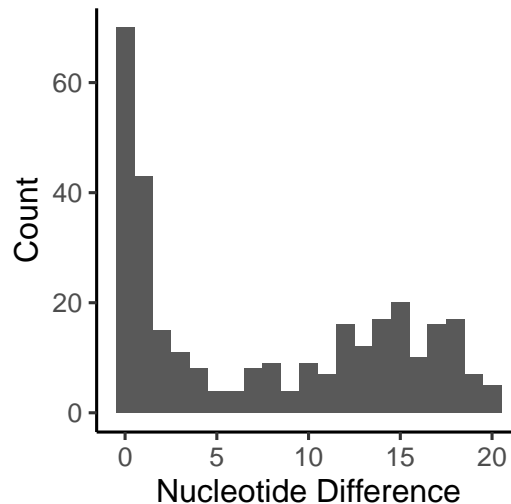
IGHV1-69*17

473 sequences assigned
86 (18.2%) exact matches, in which:
86 unique CDR3
6 unique J



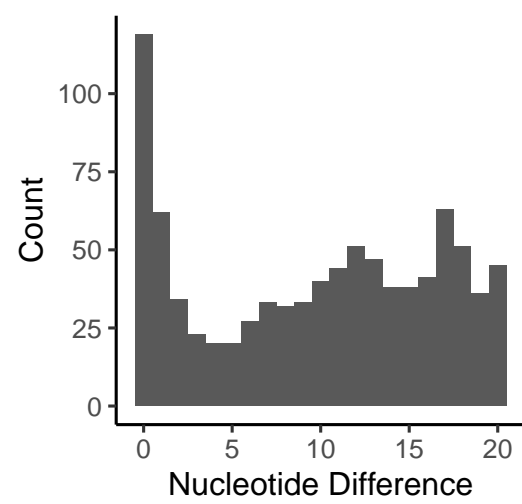
IGHV2-26*01

400 sequences assigned
70 (17.5%) exact matches, in which:
70 unique CDR3
5 unique J



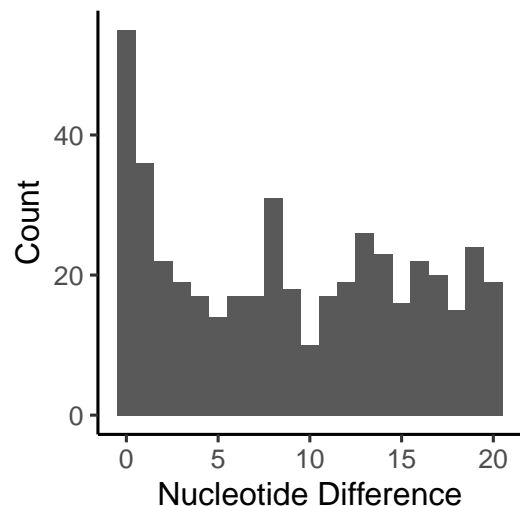
IGHV3-9*01

1334 sequences assigned
119 (8.9%) exact matches, in which:
119 unique CDR3
5 unique J



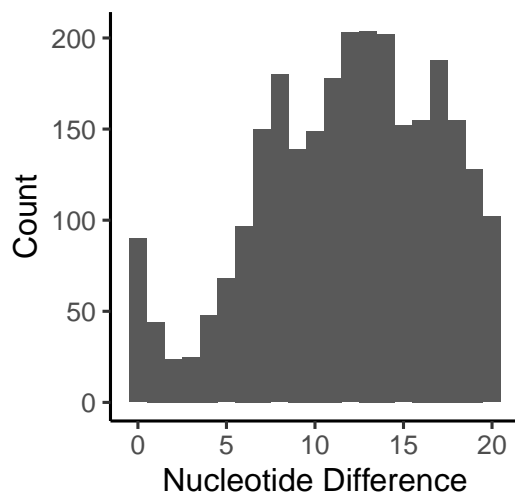
IGHV3-11*01

816 sequences assigned
55 (6.7%) exact matches, in which:
54 unique CDR3
5 unique J



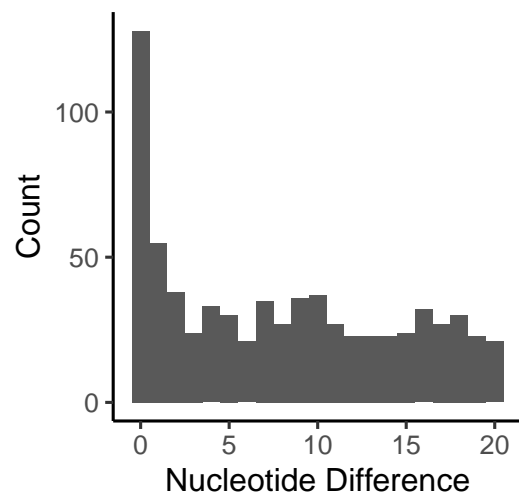
IGHV3-15*01

3684 sequences assigned
90 (2.4%) exact matches, in which:
87 unique CDR3
6 unique J



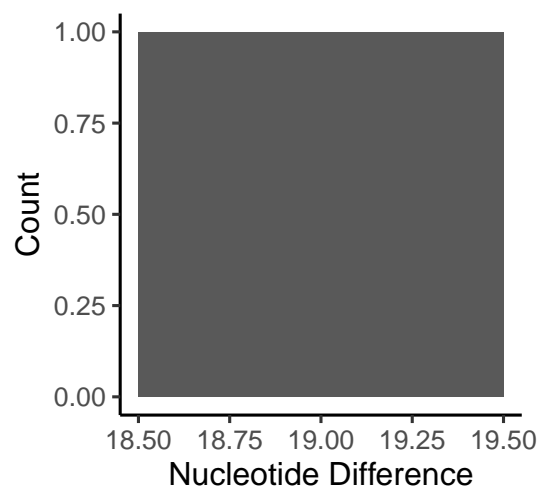
IGHV3-21*01

1184 sequences assigned
128 (10.8%) exact matches, in which:
127 unique CDR3
6 unique J



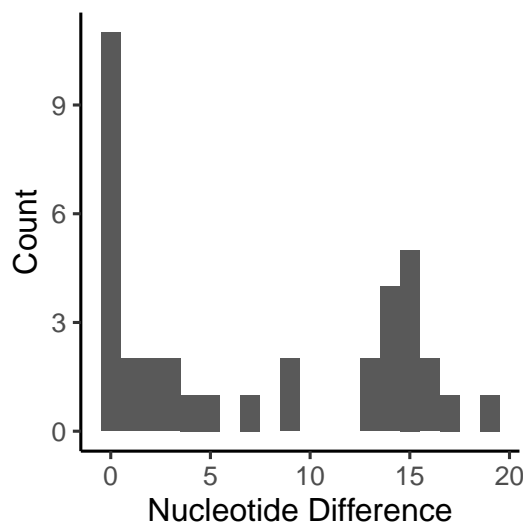
IGHV3-11*06

2 sequences assigned
No exact matches.



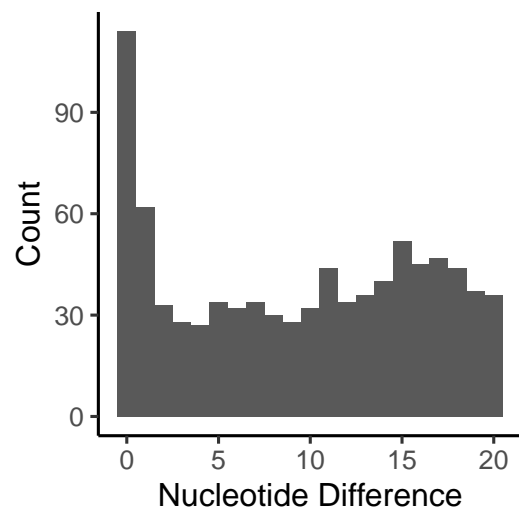
IGHV3-20*01

43 sequences assigned
11 (25.6%) exact matches, in which:
11 unique CDR3
4 unique J



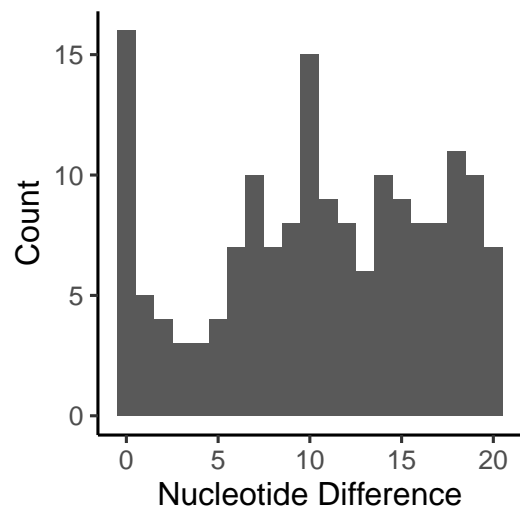
IGHV3-33*01

1400 sequences assigned
114 (8.1%) exact matches, in which:
114 unique CDR3
5 unique J



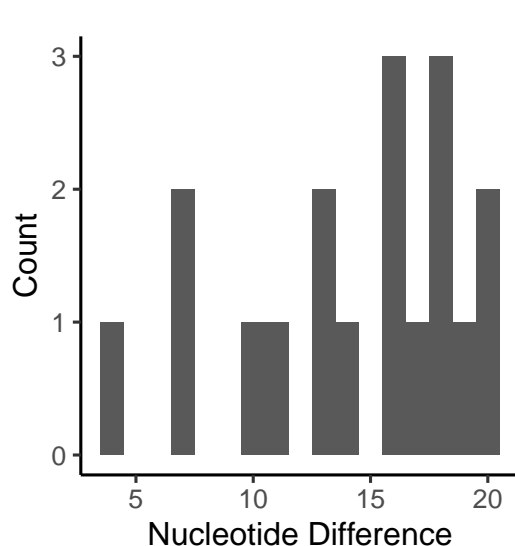
IGHV3-13*01

262 sequences assigned
16 (6.1%) exact matches, in which:
16 unique CDR3
3 unique J



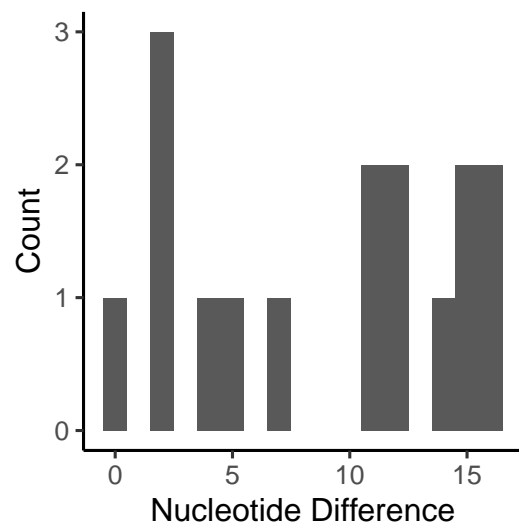
IGHV3-20*04

56 sequences assigned
No exact matches.



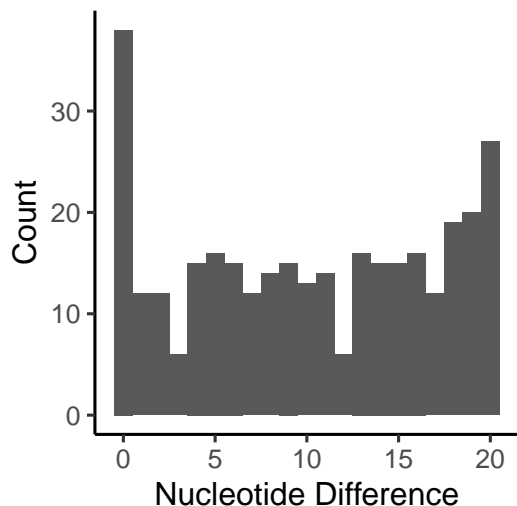
IGHV3-43*01

27 sequences assigned
1 (3.7%) exact matches, in which:
1 unique CDR3
1 unique J



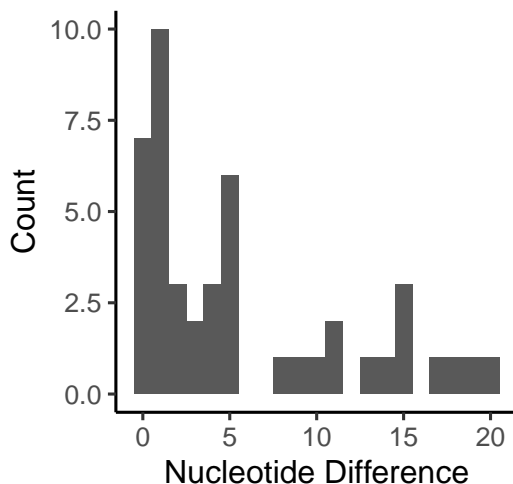
IGHV3-48*02

498 sequences assigned
38 (7.6%) exact matches, in which:
38 unique CDR3
5 unique J



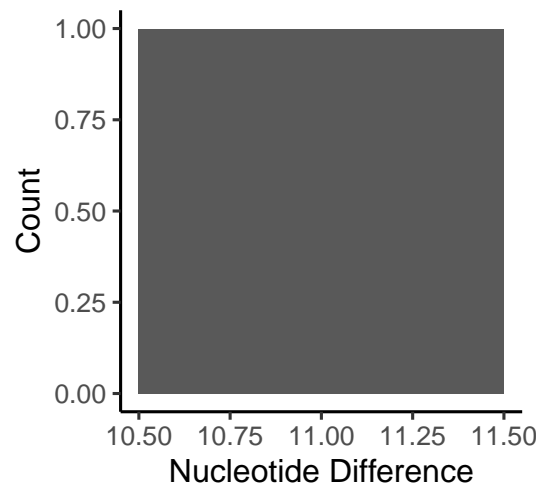
IGHV3-49*05

76 sequences assigned
7 (9.2%) exact matches, in which:
7 unique CDR3
2 unique J



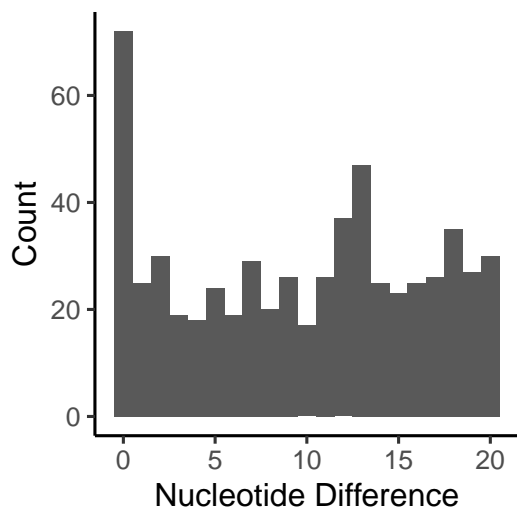
IGHV3-62*04

1 sequences assigned
No exact matches.



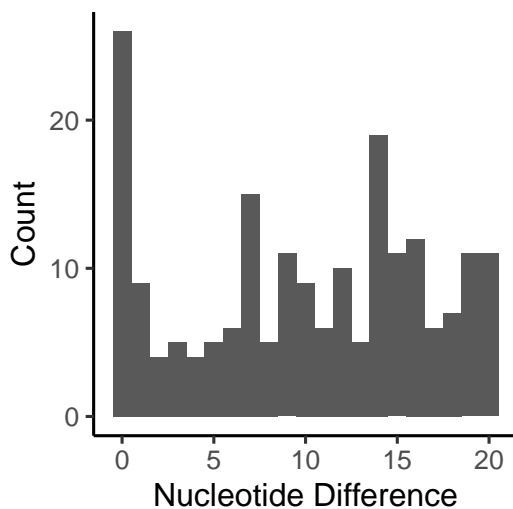
IGHV3-48*03

868 sequences assigned
72 (8.3%) exact matches, in which:
72 unique CDR3
6 unique J



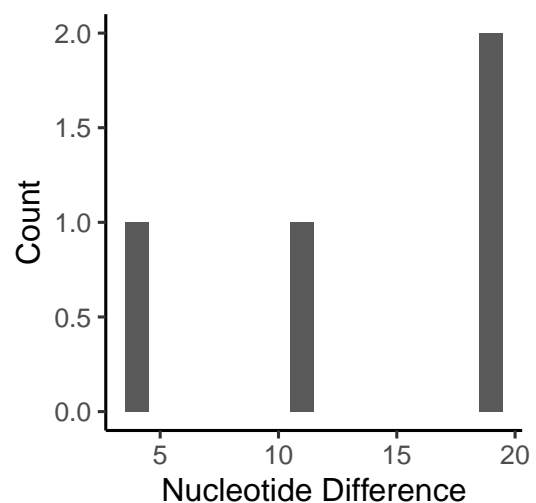
IGHV3-53*01

348 sequences assigned
26 (7.5%) exact matches, in which:
25 unique CDR3
3 unique J



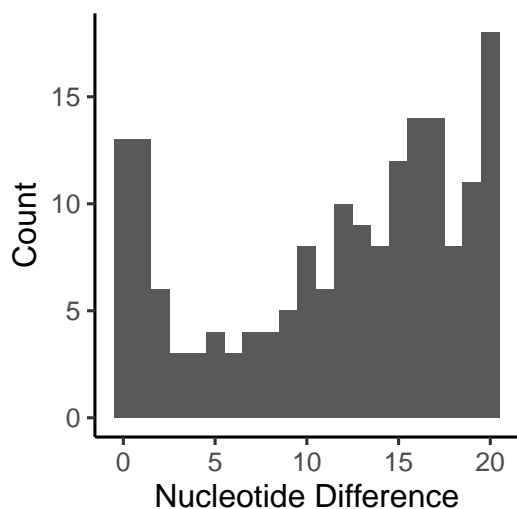
IGHV3-64*02

9 sequences assigned
No exact matches.



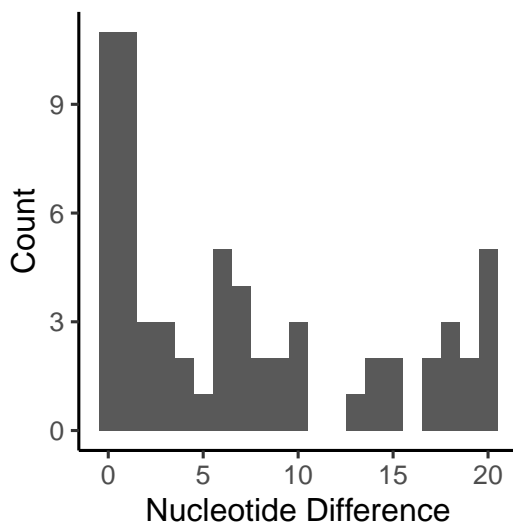
IGHV3-49*04

314 sequences assigned
13 (4.1%) exact matches, in which:
13 unique CDR3
3 unique J



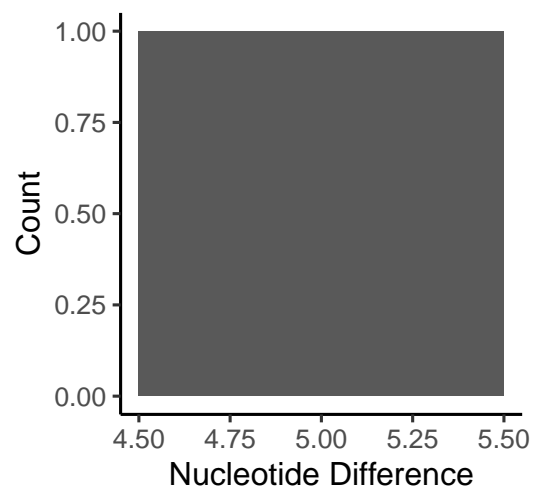
IGHV3-53*02

82 sequences assigned
11 (13.4%) exact matches, in which:
11 unique CDR3
2 unique J



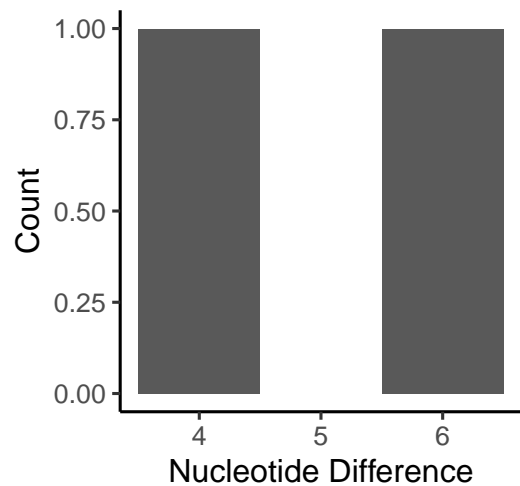
IGHV3-64*05

1 sequences assigned
No exact matches.



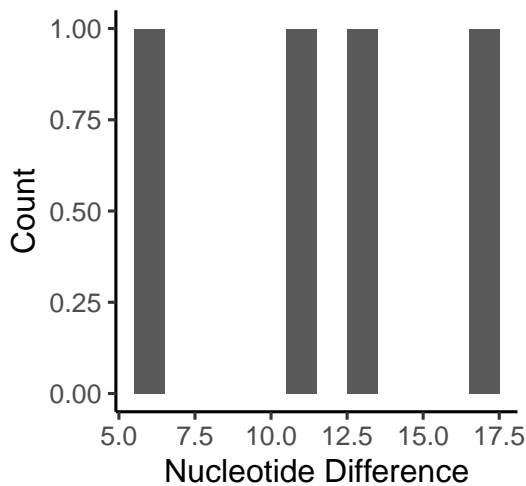
IGHV3-66*01

2 sequences assigned
No exact matches.



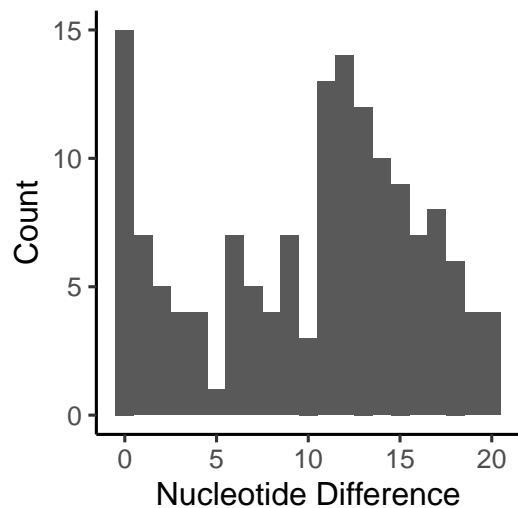
IGHV3-69-1*01

5 sequences assigned
No exact matches.



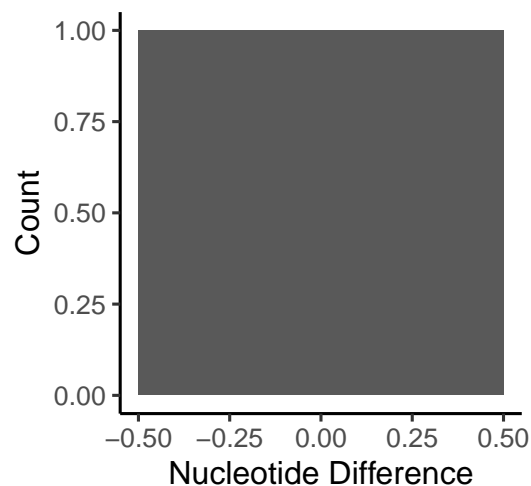
IGHV3-73*02

316 sequences assigned
15 (4.7%) exact matches, in which:
15 unique CDR3
2 unique J



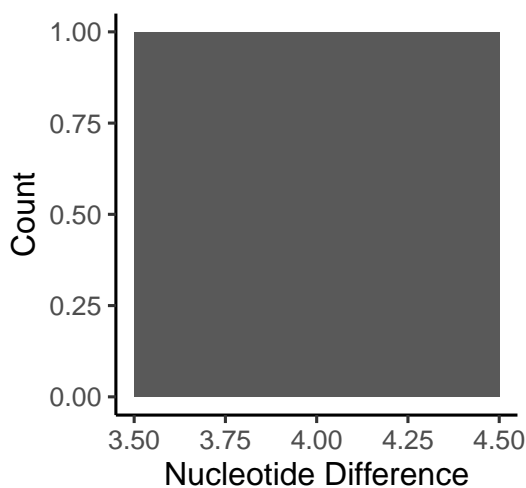
IGHV3-66*03

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



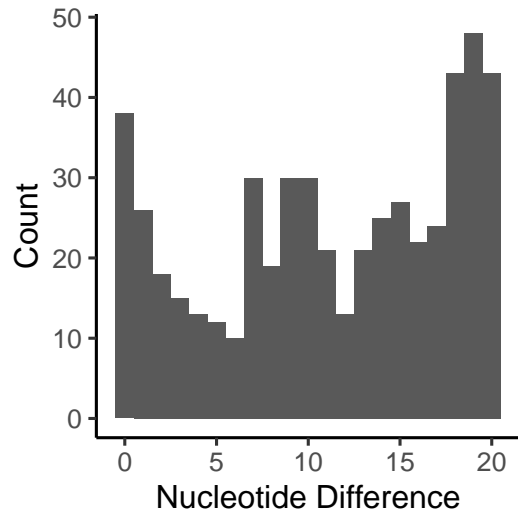
IGHV3-71*02

1 sequences assigned
No exact matches.



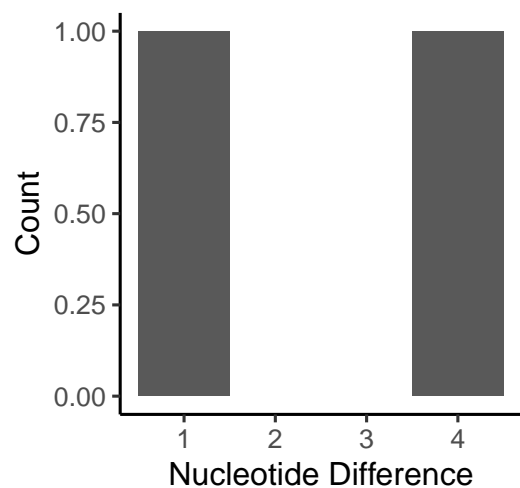
IGHV3-74*01

691 sequences assigned
38 (5.5%) exact matches, in which:
33 unique CDR3
4 unique J



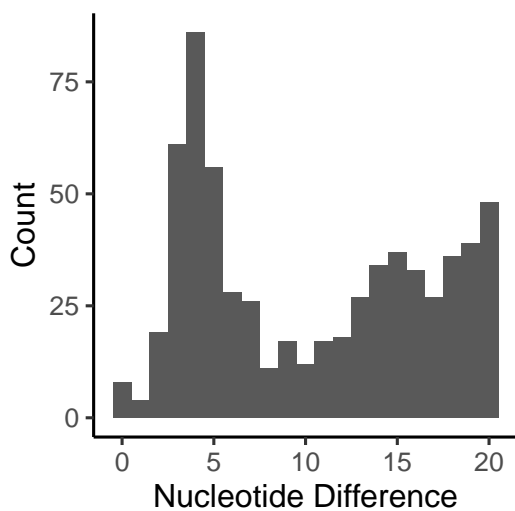
IGHV3-66*04

2 sequences assigned
No exact matches.



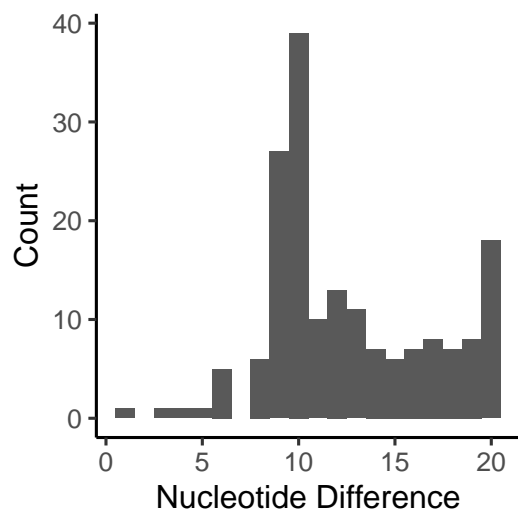
IGHV3-72*01

828 sequences assigned
8 (1%) exact matches, in which:
7 unique CDR3
4 unique J



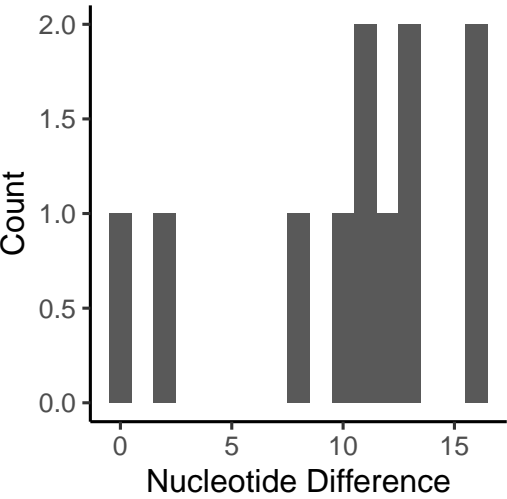
IGHV3-74*03

235 sequences assigned
No exact matches.



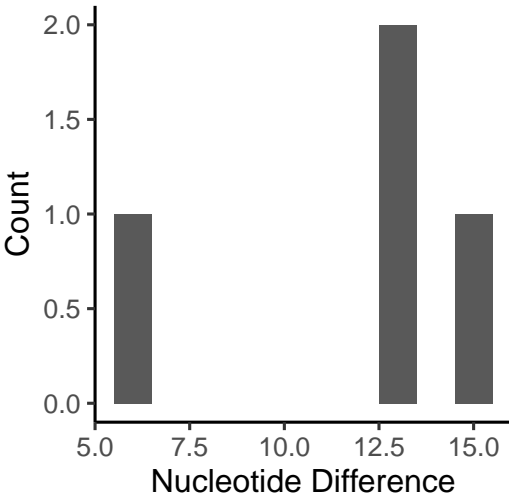
IGHV3–43D*04

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



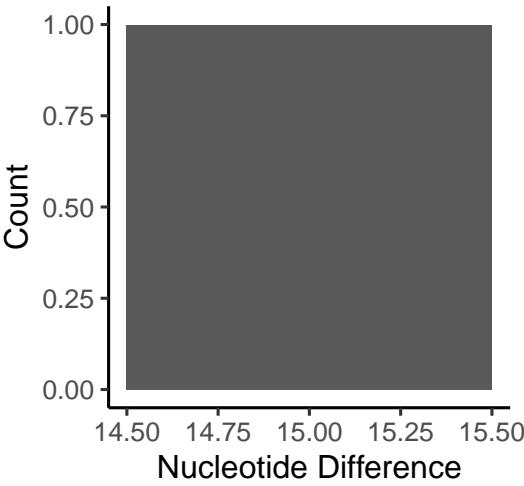
IGHV4–28*01

4 sequences assigned
No exact matches.



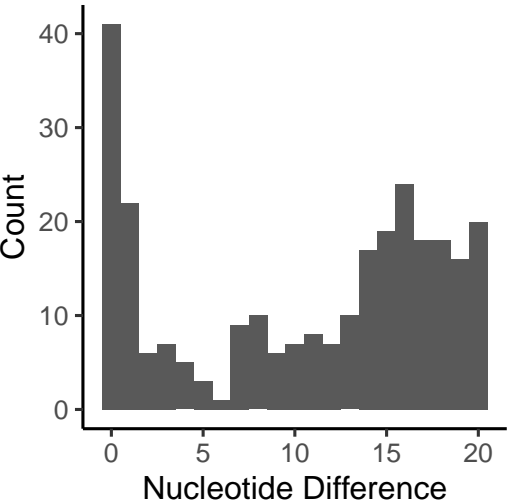
IGHV4–28*05

2 sequences assigned
No exact matches.



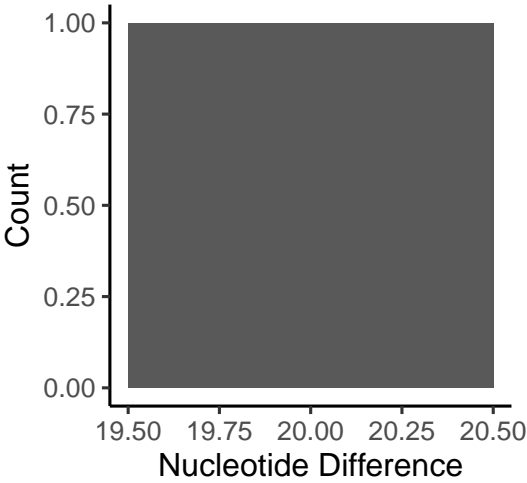
IGHV4–4*02

556 sequences assigned
41 (7.4%) exact matches, in which:
41 unique CDR3
6 unique J



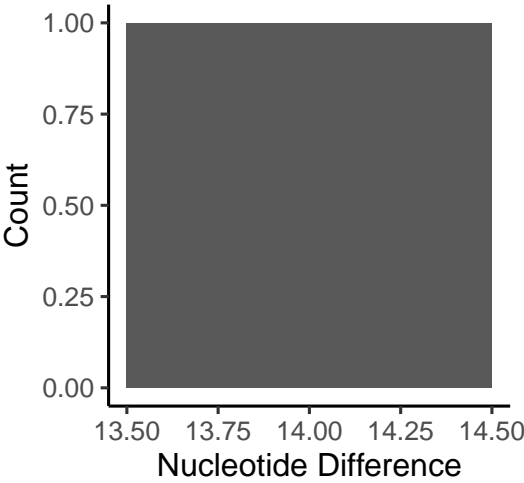
IGHV4–28*03

1 sequences assigned
No exact matches.



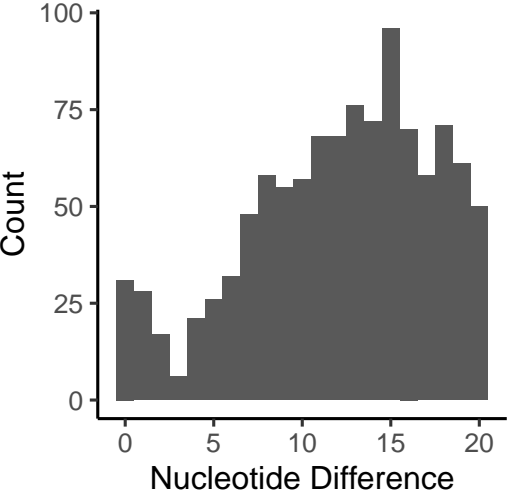
IGHV4–30–2*03

1 sequences assigned
No exact matches.



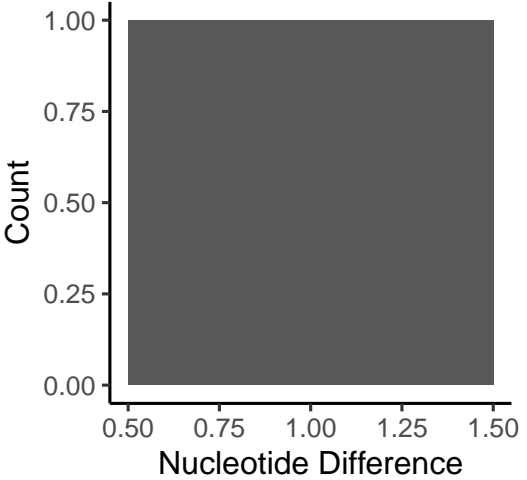
IGHV4–4*07

1512 sequences assigned
31 (2.1%) exact matches, in which:
31 unique CDR3
5 unique J



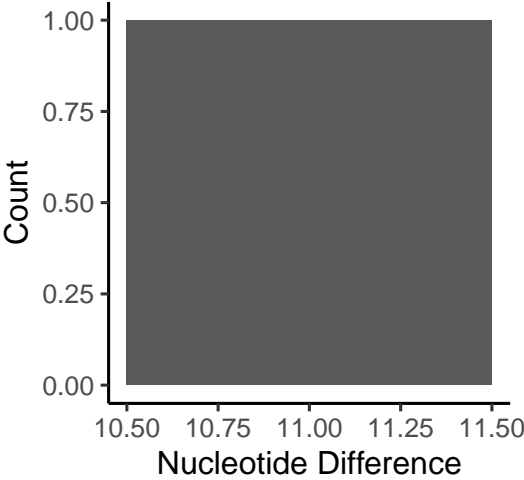
IGHV4–28*04

1 sequences assigned
No exact matches.



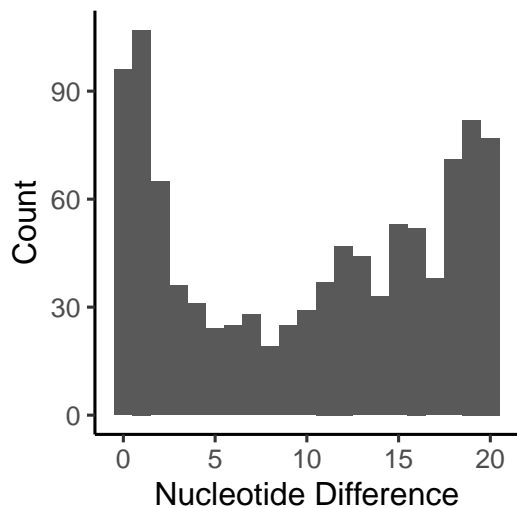
IGHV4–30–2*04

1 sequences assigned
No exact matches.



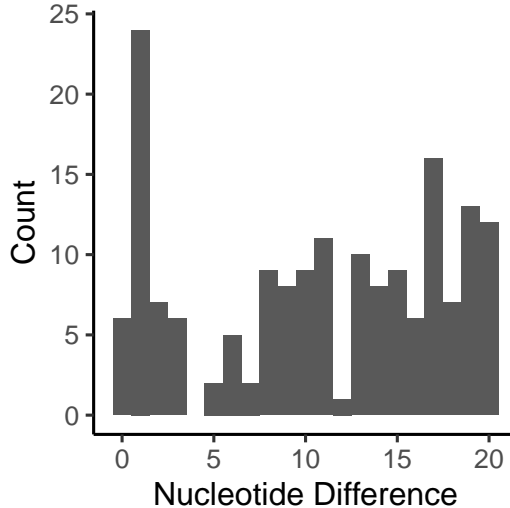
IGHV4-31*03

1818 sequences assigned
96 (5.3%) exact matches, in which:
95 unique CDR3
6 unique J



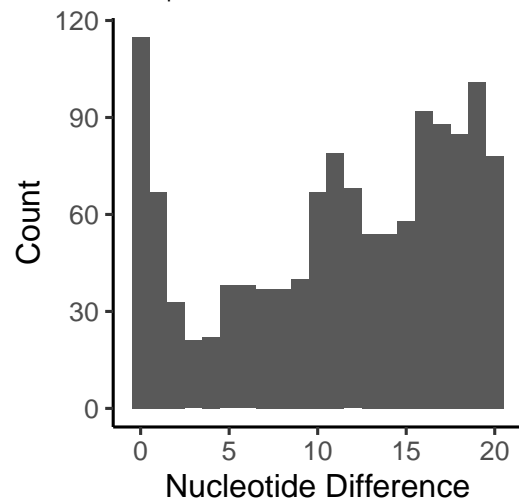
IGHV4-38-2*02

346 sequences assigned
6 (1.7%) exact matches, in which:
6 unique CDR3
4 unique J



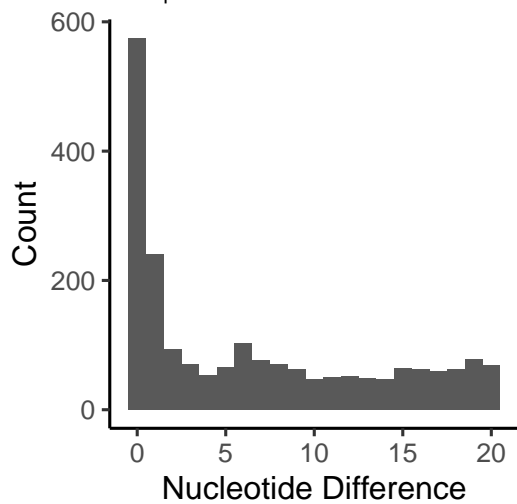
IGHV4-59*01

2053 sequences assigned
115 (5.6%) exact matches, in which:
114 unique CDR3
6 unique J



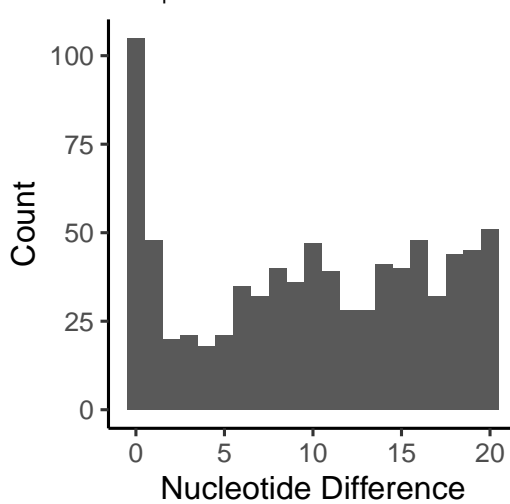
IGHV4-34*01

3088 sequences assigned
575 (18.6%) exact matches, in which:
571 unique CDR3
7 unique J



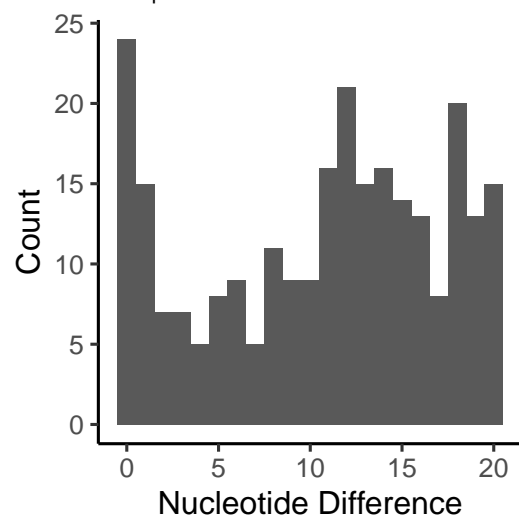
IGHV4-39*01

1535 sequences assigned
105 (6.8%) exact matches, in which:
101 unique CDR3
6 unique J



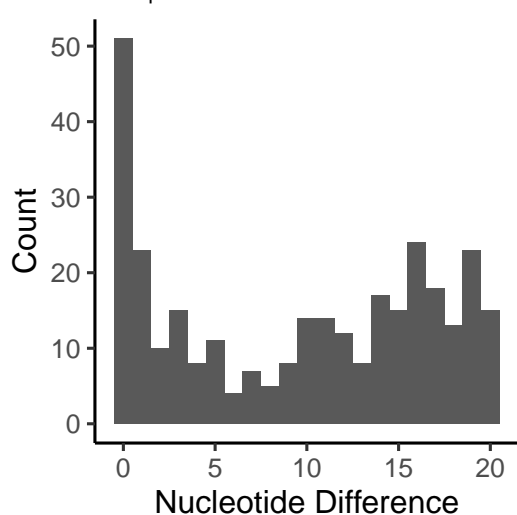
IGHV4-61*01

425 sequences assigned
24 (5.6%) exact matches, in which:
24 unique CDR3
4 unique J



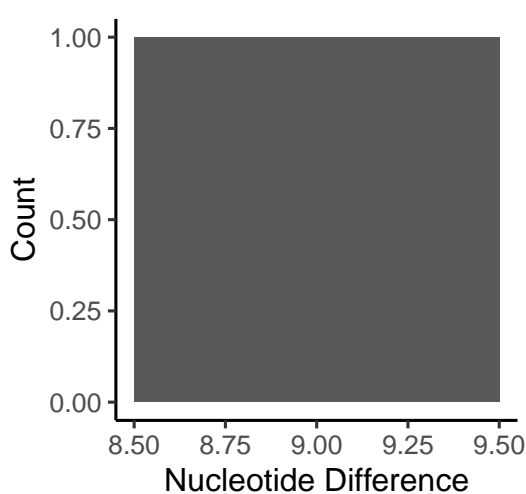
IGHV4-38-2*01

510 sequences assigned
51 (10%) exact matches, in which:
51 unique CDR3
5 unique J



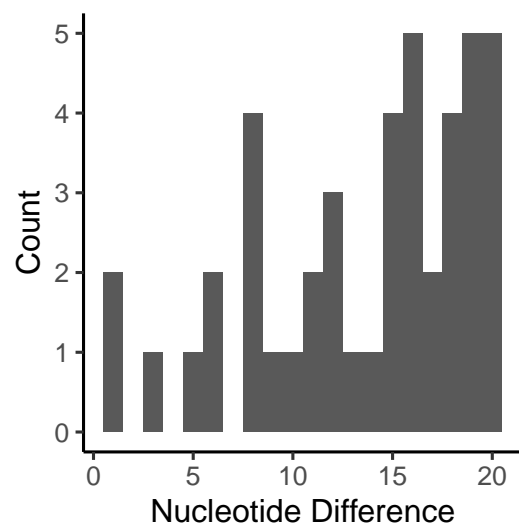
IGHV4-55*08

1 sequences assigned
No exact matches.



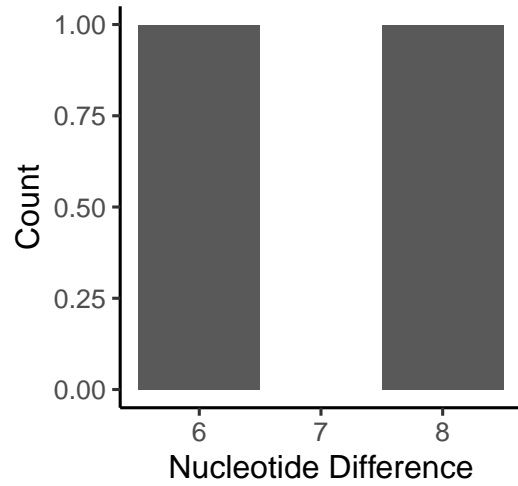
IGHV4-61*08

103 sequences assigned
No exact matches.



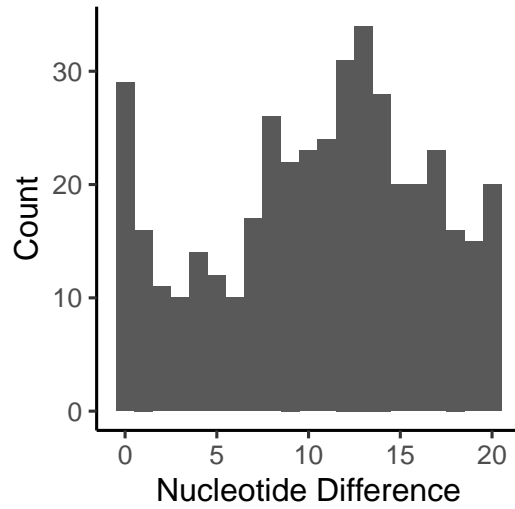
IGHV1/OR15-1*04

5 sequences assigned
No exact matches.



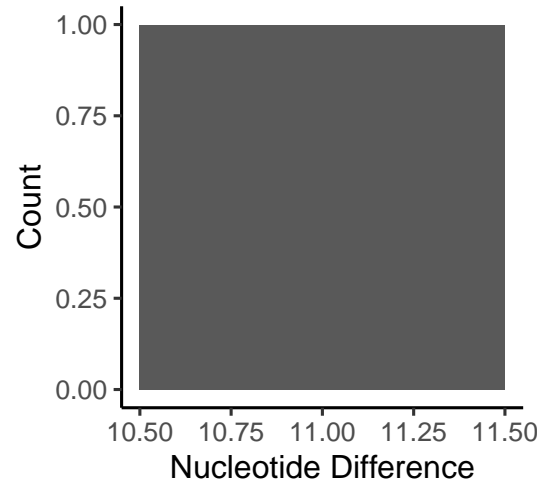
IGHV6-1*01

511 sequences assigned
29 (5.7%) exact matches, in which:
29 unique CDR3
5 unique J



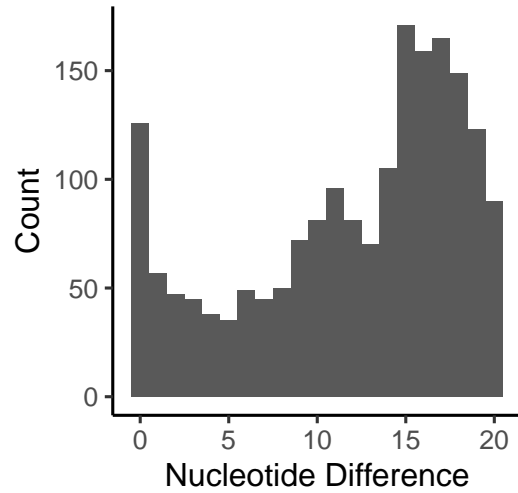
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



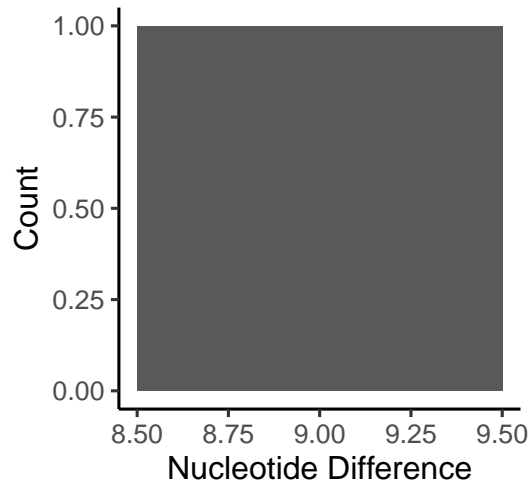
IGHV5-51*01

2422 sequences assigned
126 (5.2%) exact matches, in which:
124 unique CDR3
6 unique J



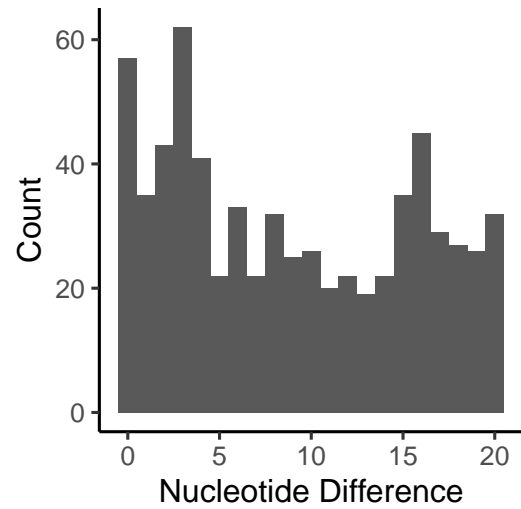
IGHV3/OR16-8*01

1 sequences assigned
No exact matches.



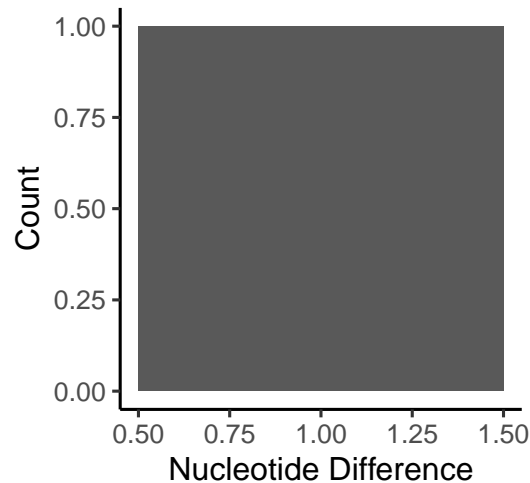
IGHV7-4-1*02

927 sequences assigned
57 (6.1%) exact matches, in which:
55 unique CDR3
5 unique J



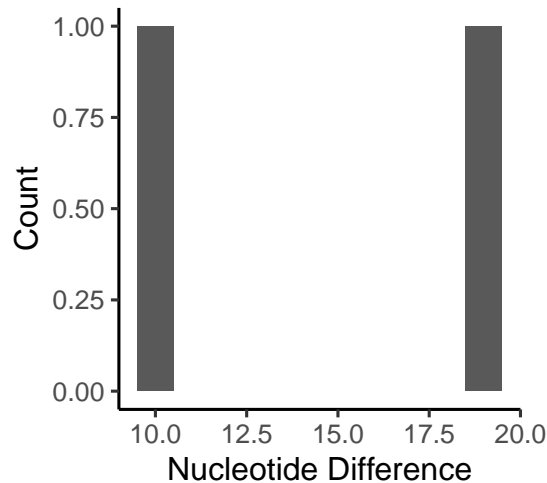
IGHV5-78*01

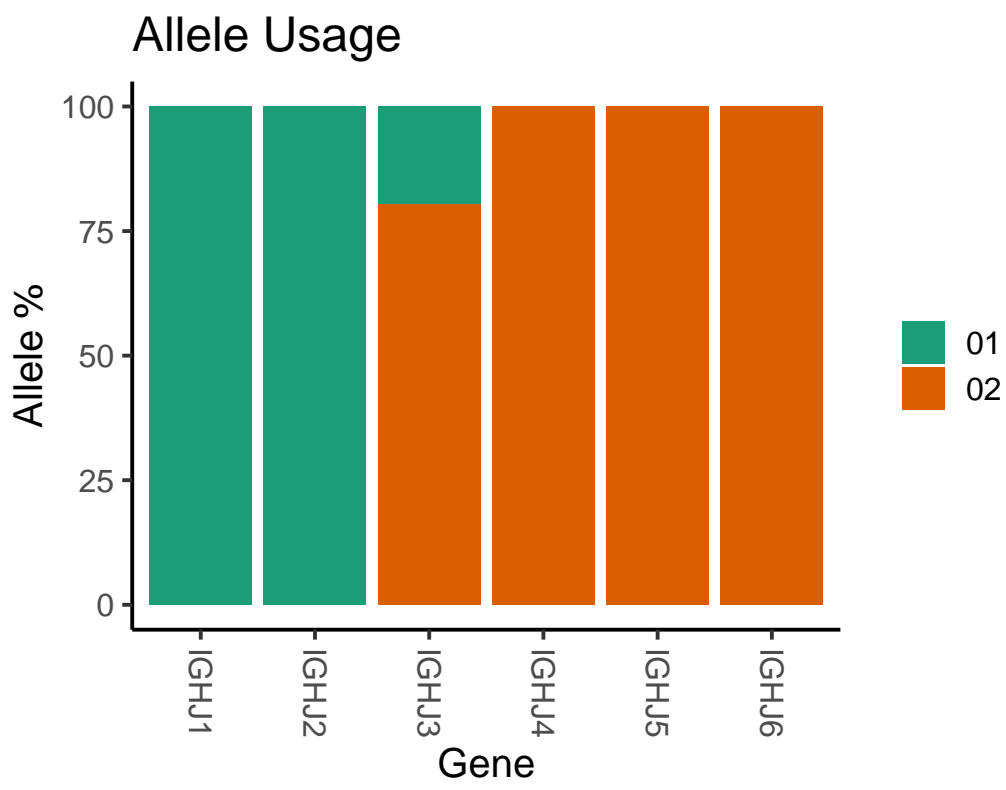
1 sequences assigned
No exact matches.



IGHV3/OR16-9*01

2 sequences assigned
No exact matches.





Warning – no inferred sequences found.