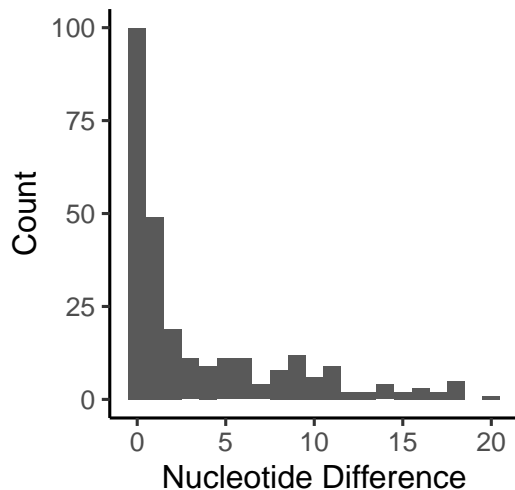


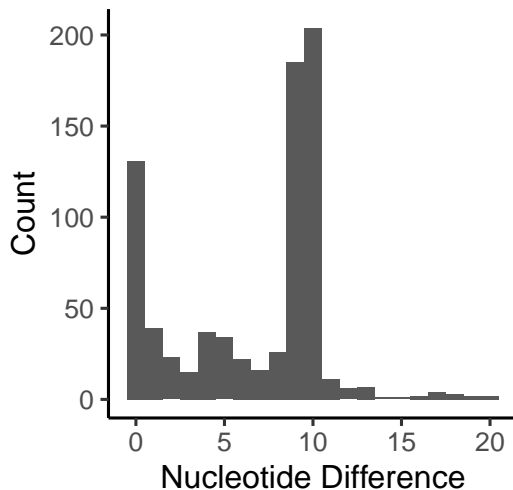
IGHV1-2*04

304 sequences assigned
100 (32.9%) exact matches, in which:
83 unique CDR3
5 unique J



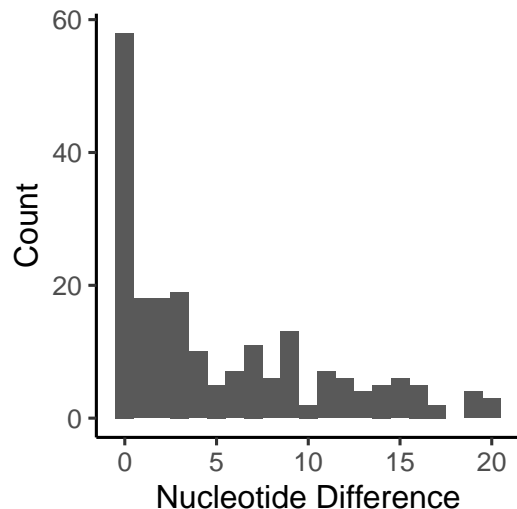
IGHV1-18*04

839 sequences assigned
131 (15.6%) exact matches, in which:
128 unique CDR3
6 unique J



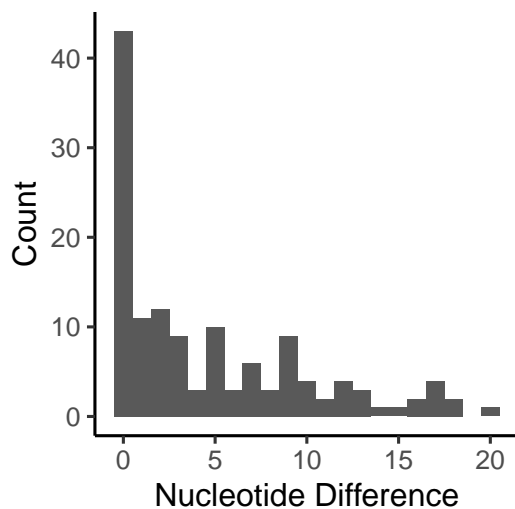
IGHV1-46*01

306 sequences assigned
58 (19%) exact matches, in which:
54 unique CDR3
5 unique J



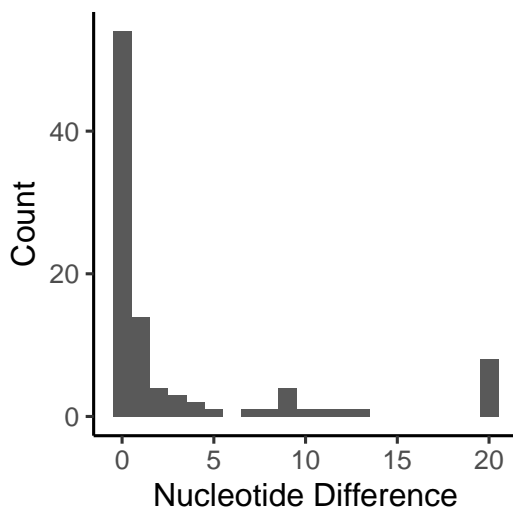
IGHV1-3*01_05

177 sequences assigned
43 (24.3%) exact matches, in which:
38 unique CDR3
5 unique J



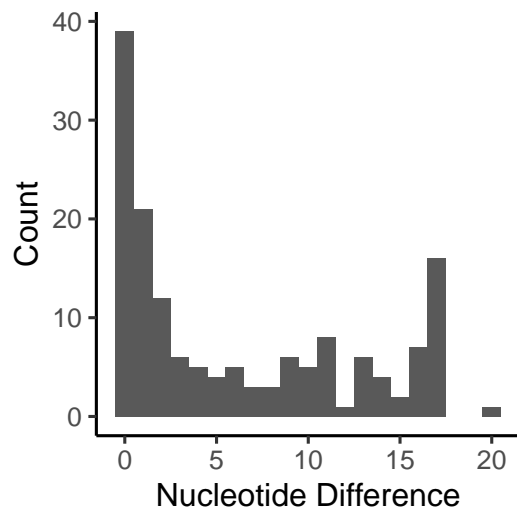
IGHV1-24*01

113 sequences assigned
54 (47.8%) exact matches, in which:
49 unique CDR3
5 unique J



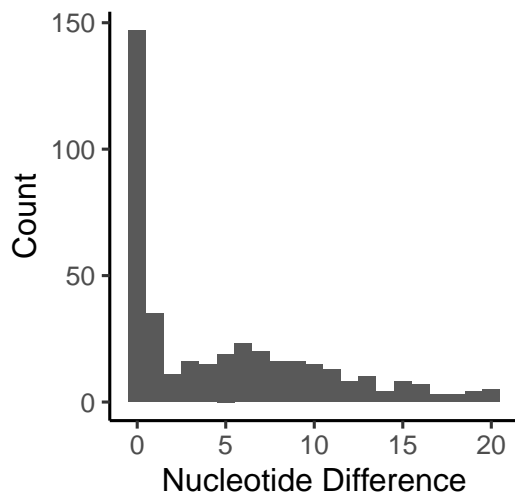
IGHV1-46*03

162 sequences assigned
39 (24.1%) exact matches, in which:
36 unique CDR3
6 unique J



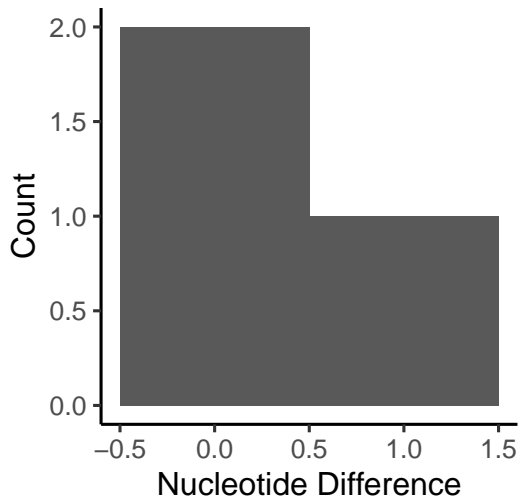
IGHV1-18*01

745 sequences assigned
147 (19.7%) exact matches, in which:
141 unique CDR3
5 unique J



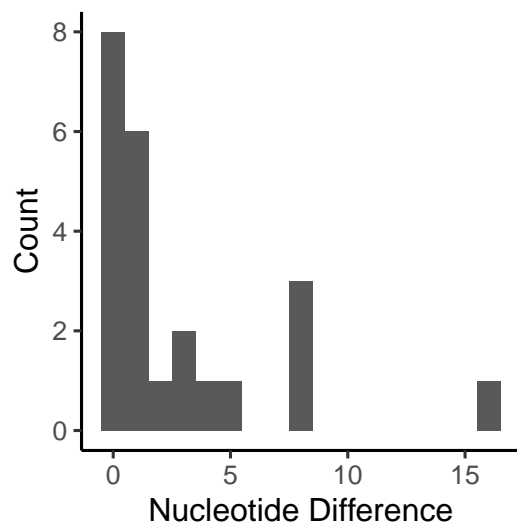
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



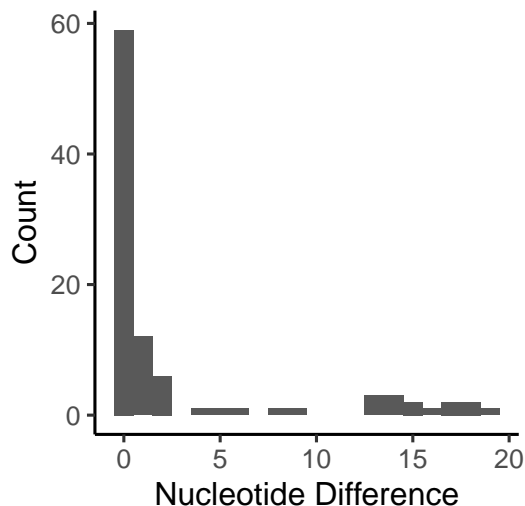
IGHV1-58*02

31 sequences assigned
8 (25.8%) exact matches, in which:
7 unique CDR3
2 unique J



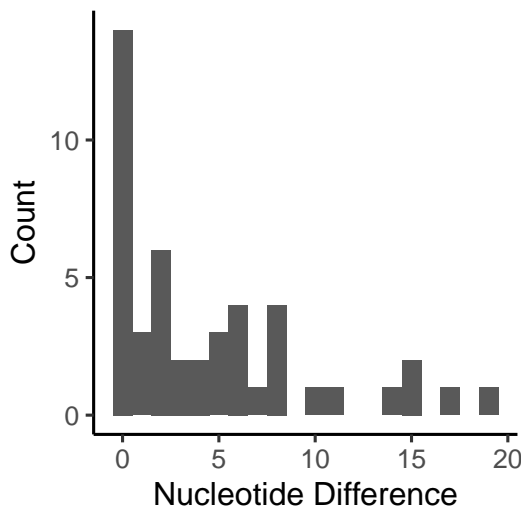
IGHV1-69*02

122 sequences assigned
59 (48.4%) exact matches, in which:
57 unique CDR3
4 unique J



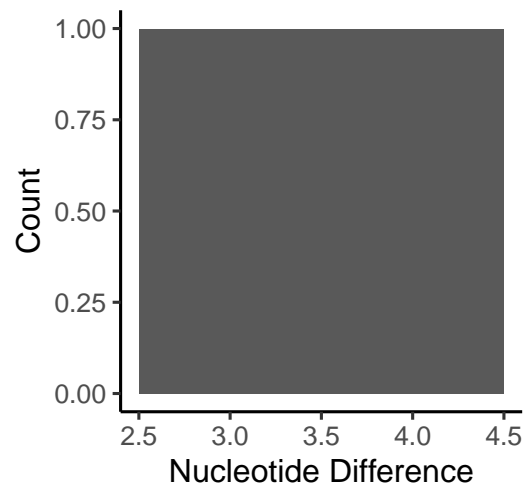
IGHV2-5*02

60 sequences assigned
14 (23.3%) exact matches, in which:
12 unique CDR3
3 unique J



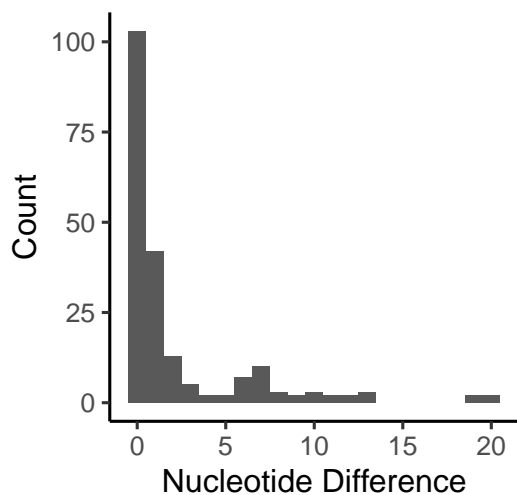
IGHV2-70D*04

2 sequences assigned
No exact matches.



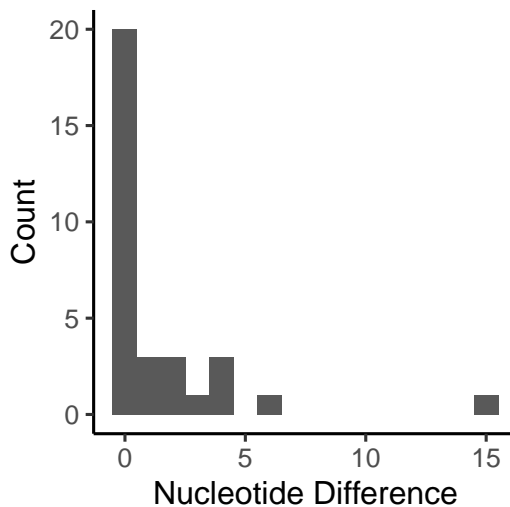
IGHV1-69*04_09

270 sequences assigned
103 (38.1%) exact matches, in which:
102 unique CDR3
6 unique J



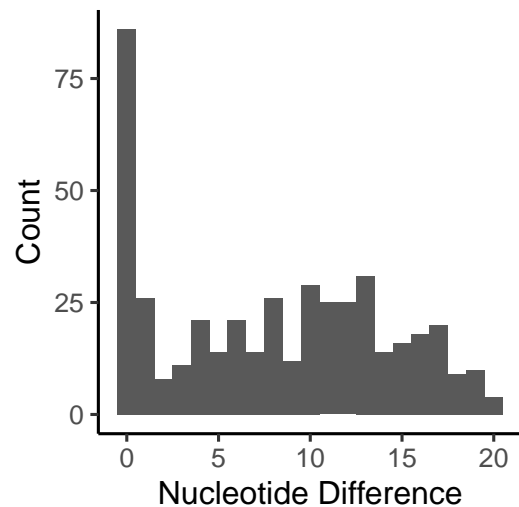
IGHV2-26*01

32 sequences assigned
20 (62.5%) exact matches, in which:
20 unique CDR3
5 unique J



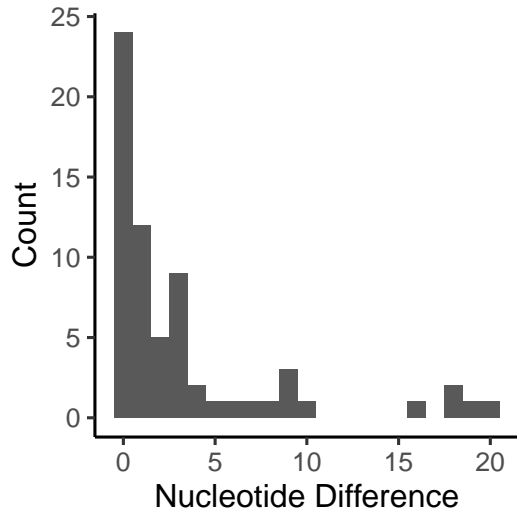
IGHV3-7*03

513 sequences assigned
86 (16.8%) exact matches, in which:
47 unique CDR3
4 unique J



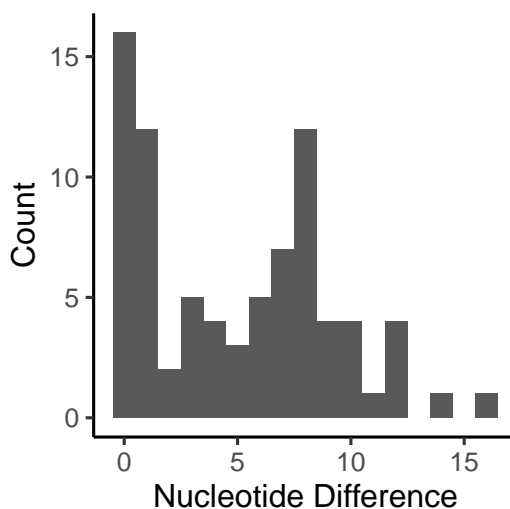
IGHV2-5*01

111 sequences assigned
24 (21.6%) exact matches, in which:
23 unique CDR3
4 unique J



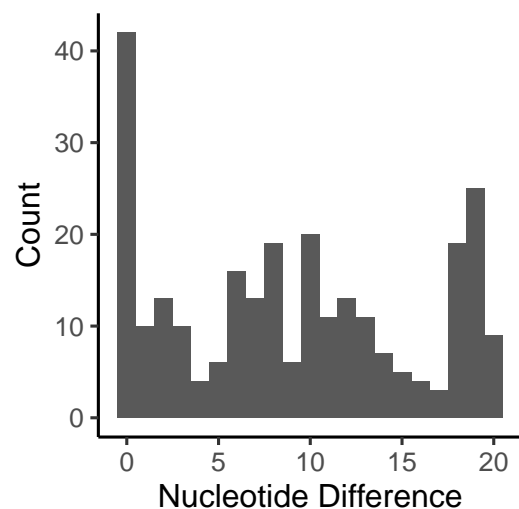
IGHV2-70*11_15

89 sequences assigned
16 (18%) exact matches, in which:
16 unique CDR3
4 unique J



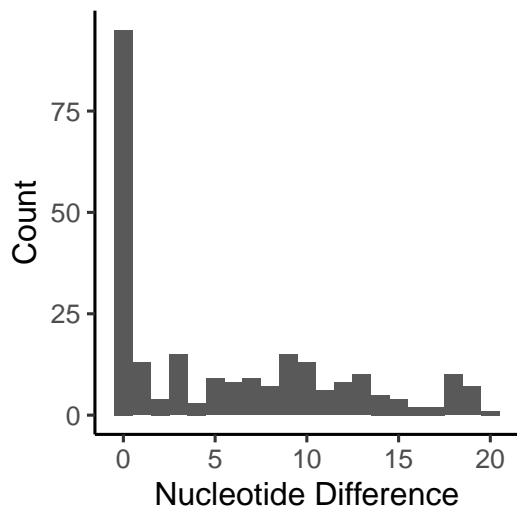
IGHV3-7*04

737 sequences assigned
42 (5.7%) exact matches, in which:
22 unique CDR3
4 unique J



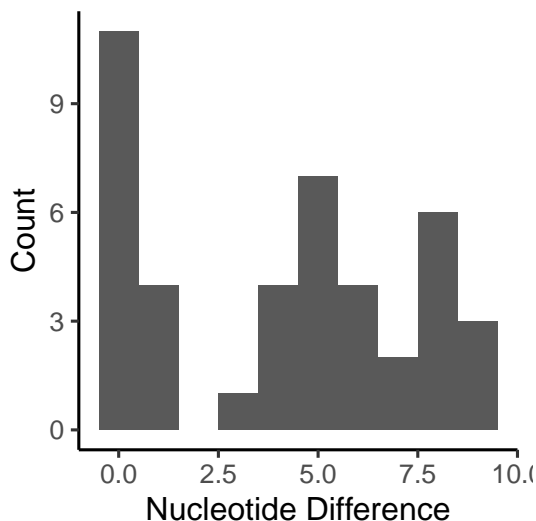
IGHV3-11*06

266 sequences assigned
95 (35.7%) exact matches, in which:
55 unique CDR3
5 unique J



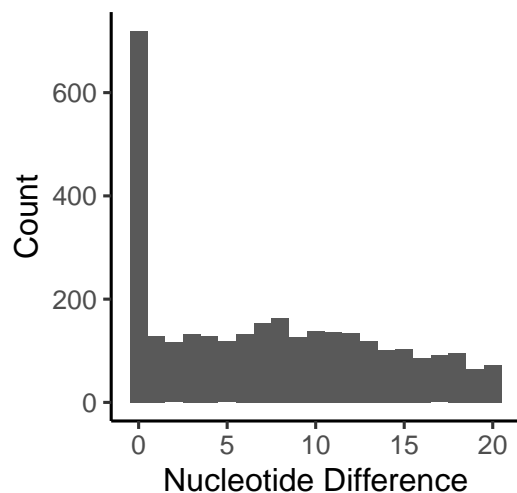
IGHV3-20*01_02

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



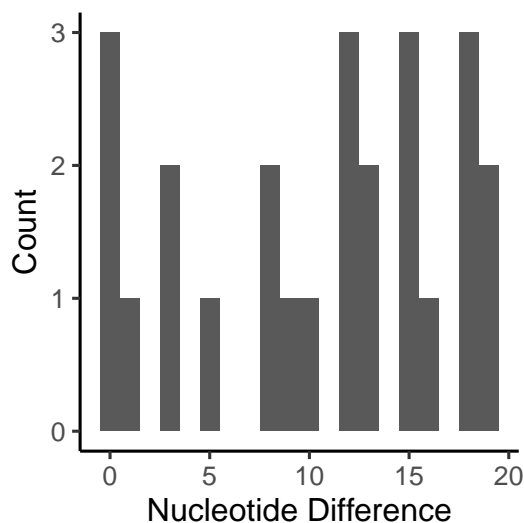
IGHV3-23*01_04

3891 sequences assigned
720 (18.5%) exact matches, in which:
430 unique CDR3
6 unique J



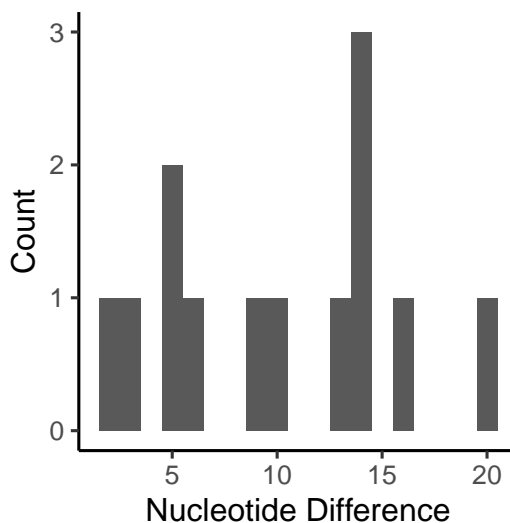
IGHV3-13*05

26 sequences assigned
3 (11.5%) exact matches, in which:
2 unique CDR3
2 unique J



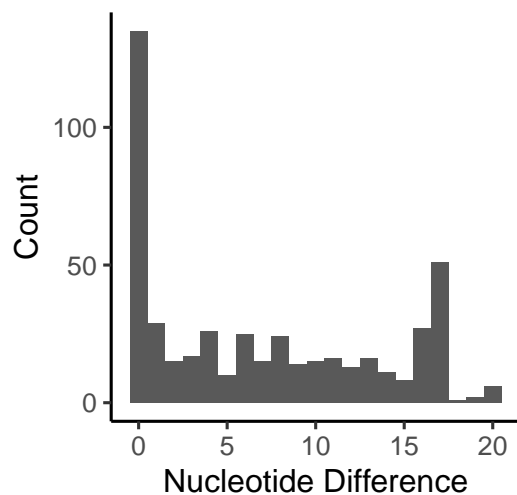
IGHV3-20*03_04

64 sequences assigned
No exact matches.



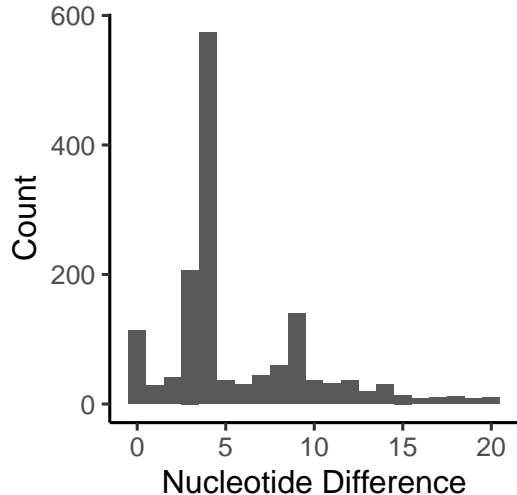
IGHV3-30-3*01

655 sequences assigned
135 (20.6%) exact matches, in which:
75 unique CDR3
5 unique J



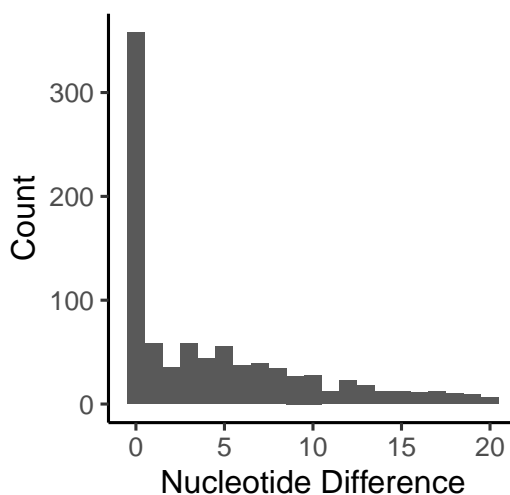
IGHV3-15*01_02

1653 sequences assigned
113 (6.8%) exact matches, in which:
63 unique CDR3
6 unique J



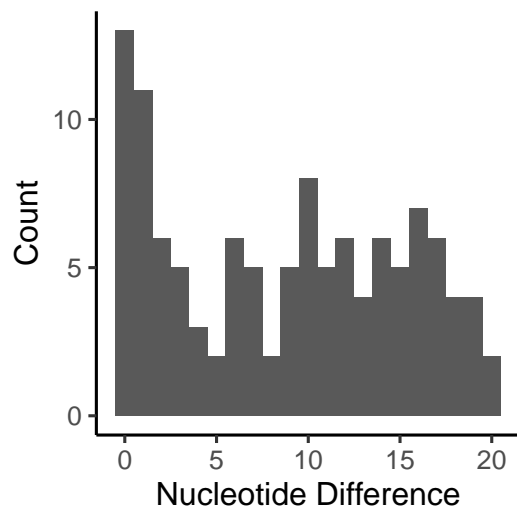
IGHV3-21*01_02

1054 sequences assigned
358 (34%) exact matches, in which:
211 unique CDR3
6 unique J



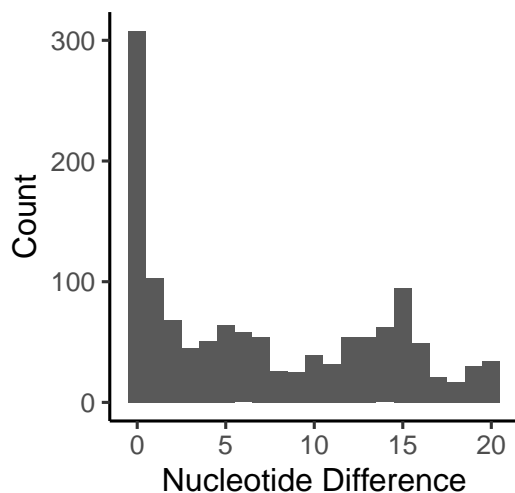
IGHV3-30*03

151 sequences assigned
13 (8.6%) exact matches, in which:
10 unique CDR3
4 unique J



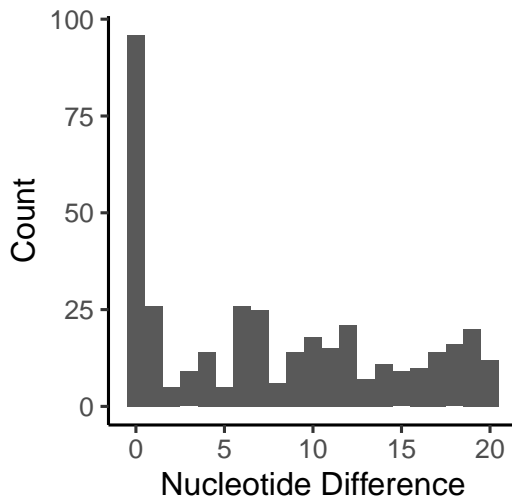
IGHV3–33*01

1562 sequences assigned
308 (19.7%) exact matches, in which:
193 unique CDR3
6 unique J



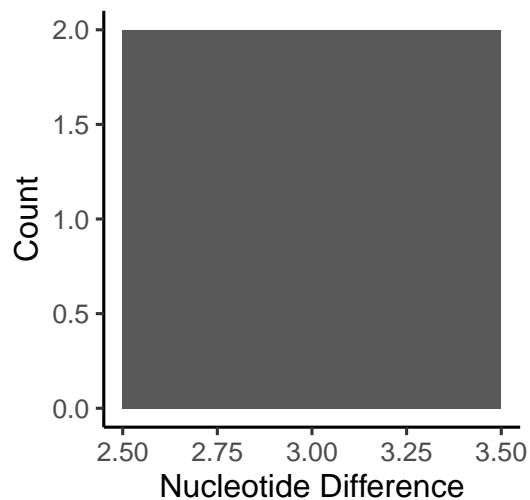
IGHV3–48*01

491 sequences assigned
96 (19.6%) exact matches, in which:
52 unique CDR3
5 unique J



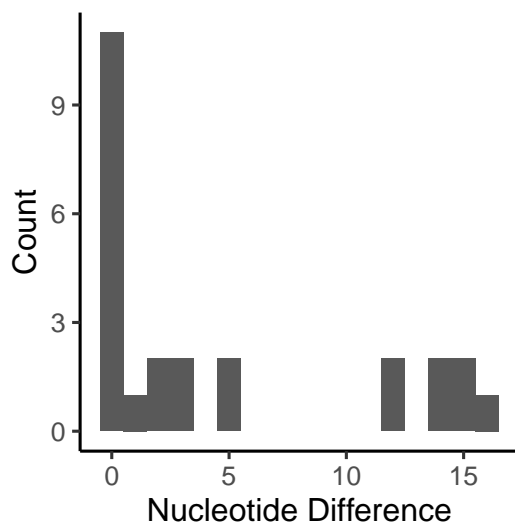
IGHV3–52*01_03

2 sequences assigned
No exact matches.



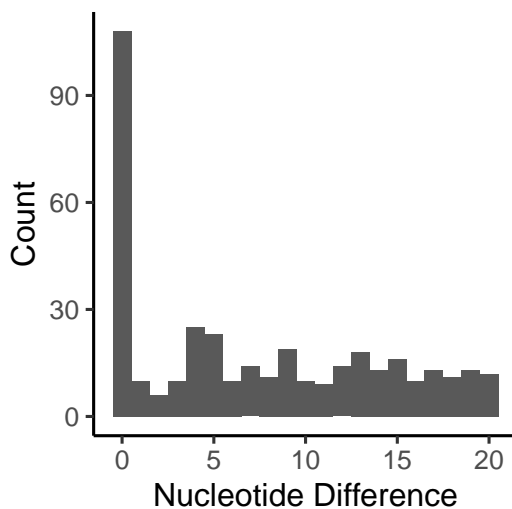
IGHV3–43*01

33 sequences assigned
11 (33.3%) exact matches, in which:
6 unique CDR3
2 unique J



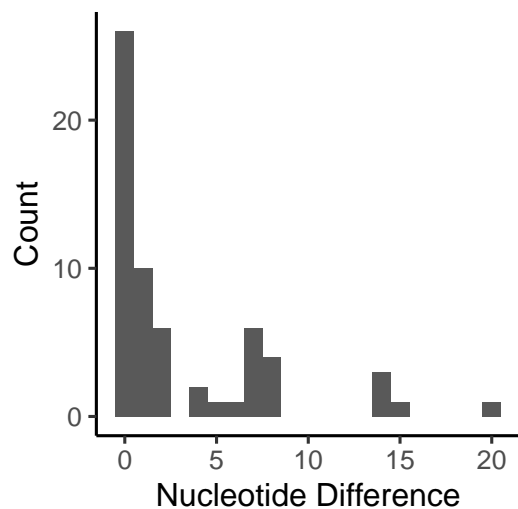
IGHV3–48*04

717 sequences assigned
108 (15.1%) exact matches, in which:
68 unique CDR3
5 unique J



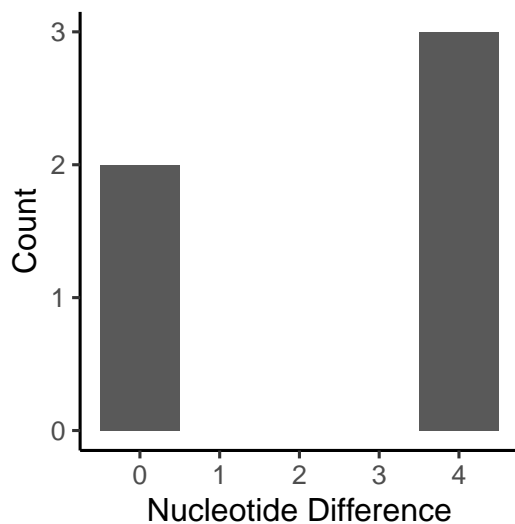
IGHV3–53*04

133 sequences assigned
26 (19.5%) exact matches, in which:
15 unique CDR3
4 unique J



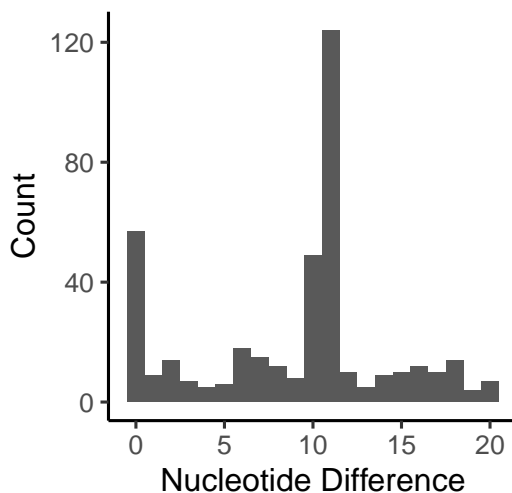
IGHV3–47*02

5 sequences assigned
2 (40%) exact matches, in which:
1 unique CDR3
1 unique J



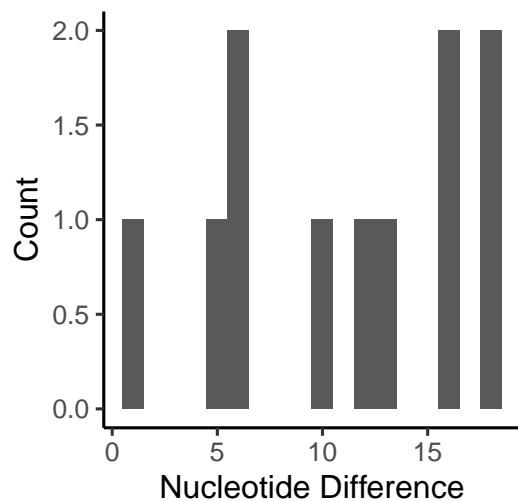
IGHV3–49*03_05

455 sequences assigned
57 (12.5%) exact matches, in which:
32 unique CDR3
4 unique J



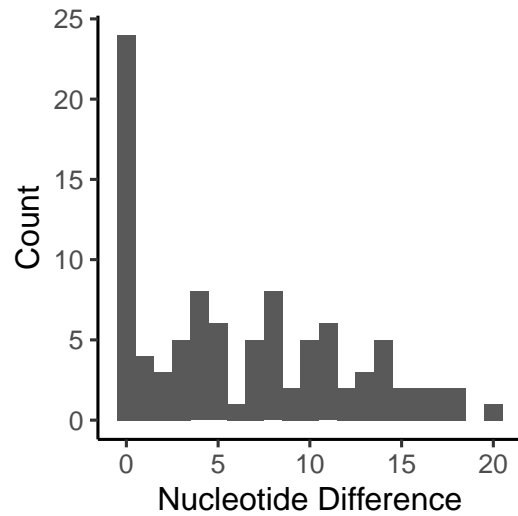
IGHV3–53*05

12 sequences assigned
No exact matches.



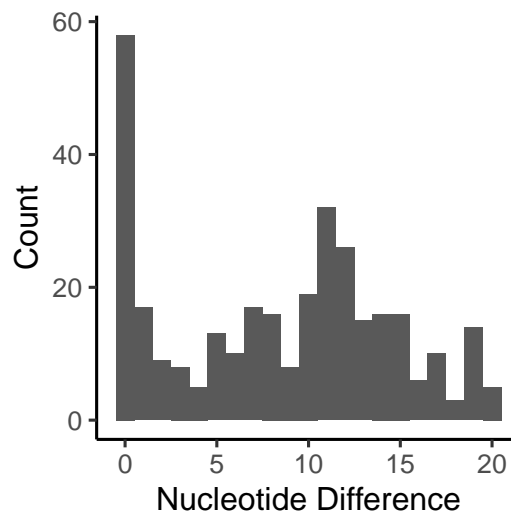
IGHV3-53*01_02

115 sequences assigned
24 (20.9%) exact matches, in which:
13 unique CDR3
3 unique J



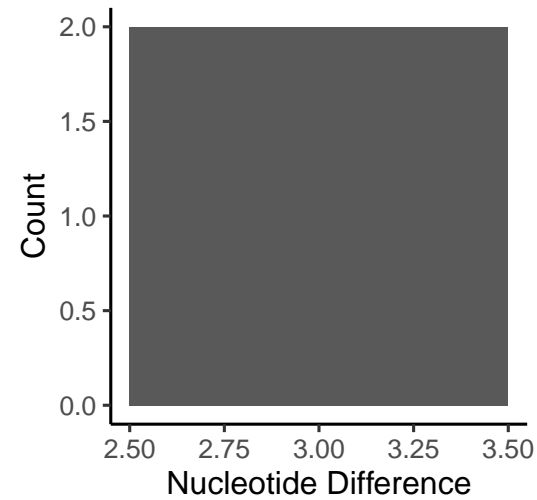
IGHV3-66*01

561 sequences assigned
58 (10.3%) exact matches, in which:
32 unique CDR3
4 unique J



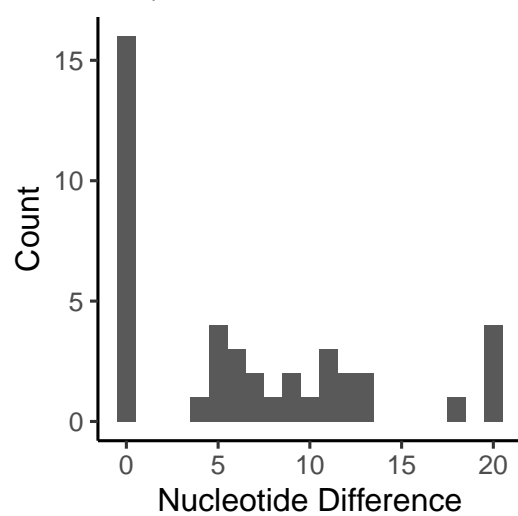
IGHV3-69-1*02

3 sequences assigned
No exact matches.



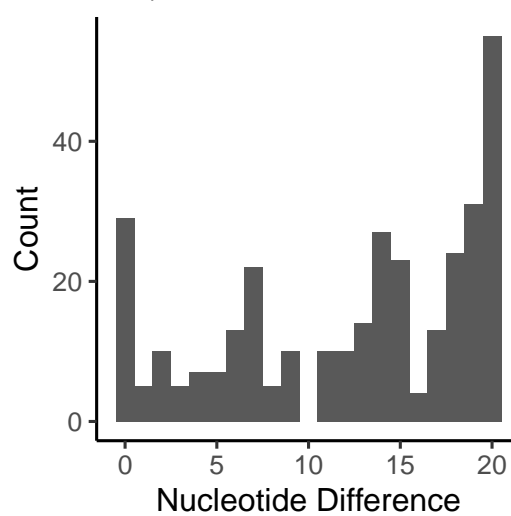
IGHV3-64*01

44 sequences assigned
16 (36.4%) exact matches, in which:
8 unique CDR3
3 unique J



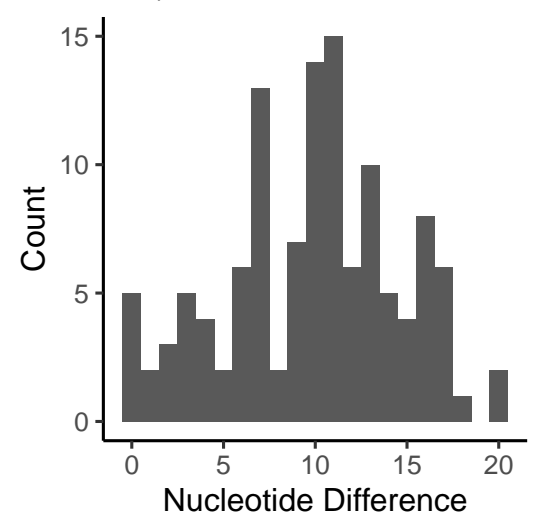
IGHV3-66*02

514 sequences assigned
29 (5.6%) exact matches, in which:
14 unique CDR3
4 unique J



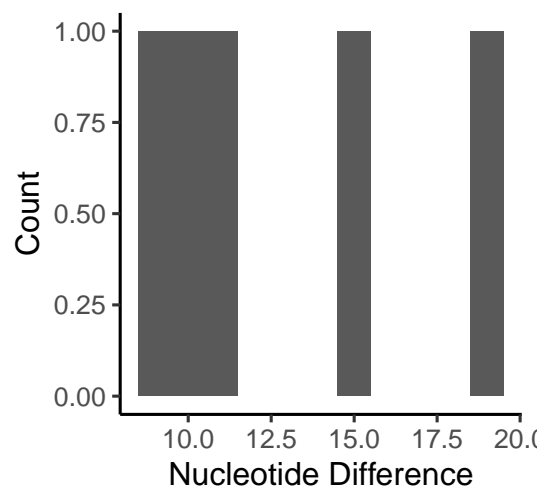
IGHV3-72*01

183 sequences assigned
5 (2.7%) exact matches, in which:
4 unique CDR3
2 unique J



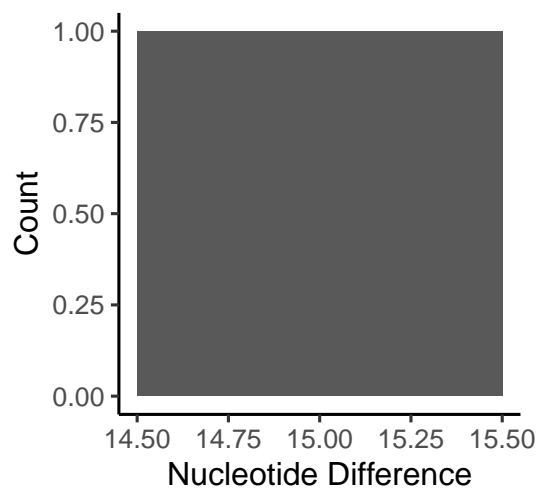
IGHV3-64*04

5 sequences assigned
No exact matches.



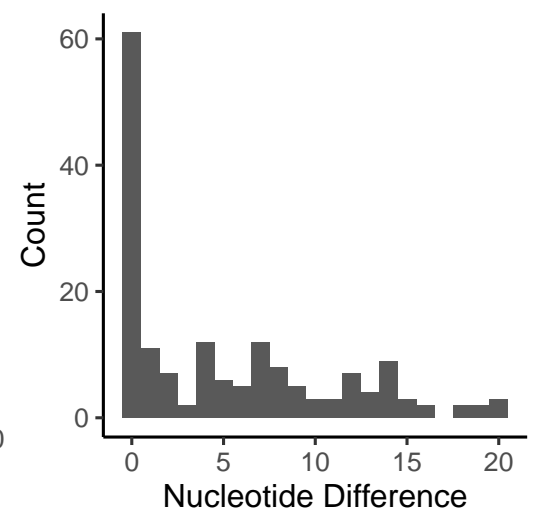
IGHV3-69-1*01

4 sequences assigned
No exact matches.



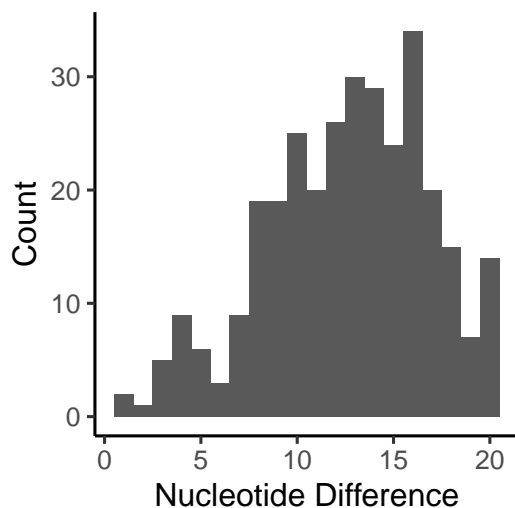
IGHV3-73*01_02

188 sequences assigned
61 (32.4%) exact matches, in which:
34 unique CDR3
4 unique J



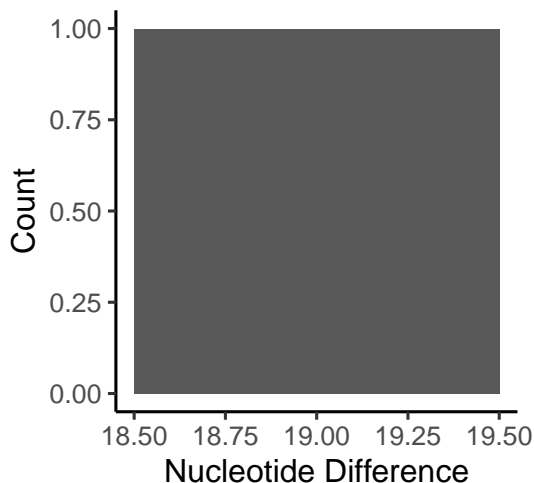
IGHV3-74*03

457 sequences assigned
No exact matches.



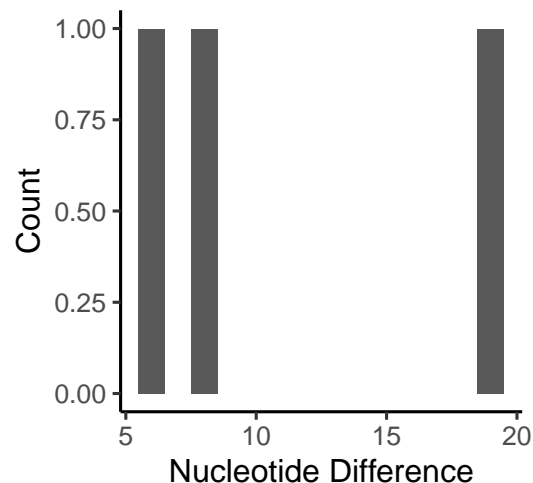
IGHV3-NL1*01

7 sequences assigned
No exact matches.



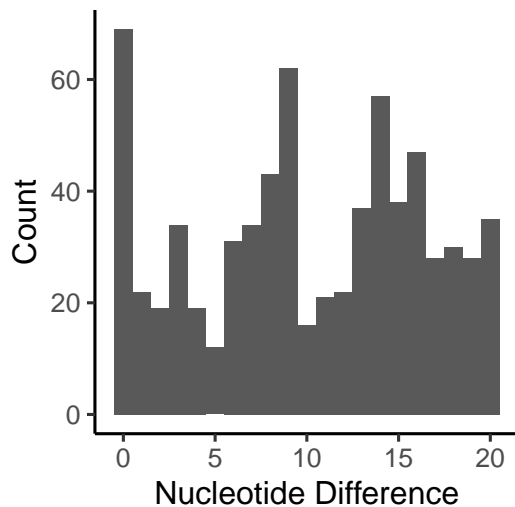
IGHV4-28*01_07

6 sequences assigned
No exact matches.



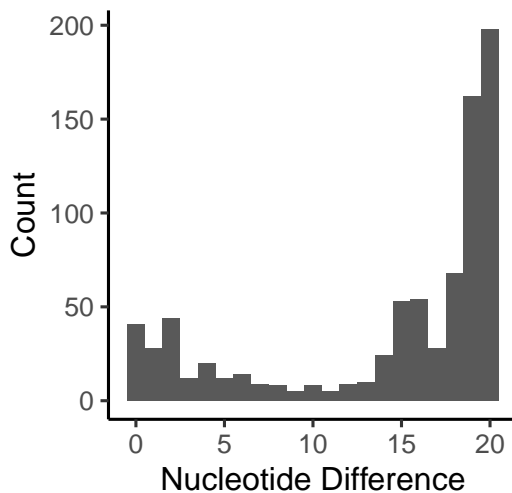
IGHV3-74*01_02

760 sequences assigned
69 (9.1%) exact matches, in which:
38 unique CDR3
5 unique J



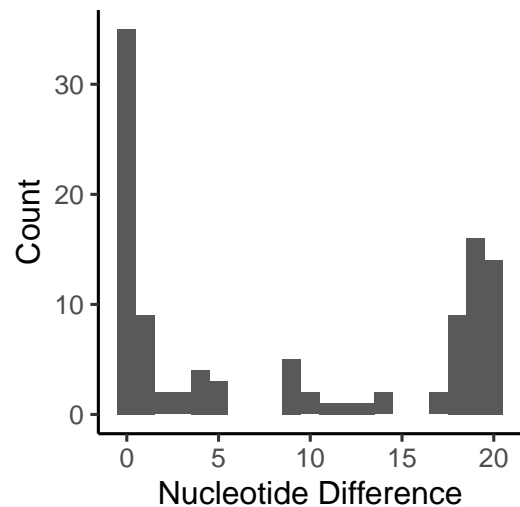
IGHV4-4*07

1097 sequences assigned
41 (3.7%) exact matches, in which:
40 unique CDR3
4 unique J



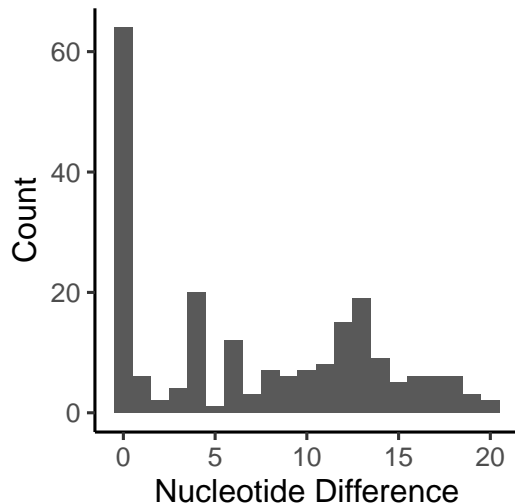
IGHV4-30-2*01

113 sequences assigned
35 (31%) exact matches, in which:
21 unique CDR3
5 unique J



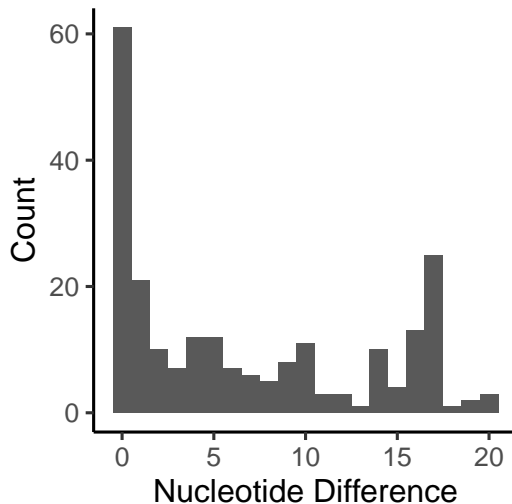
IGHV3-64D*06

268 sequences assigned
64 (23.9%) exact matches, in which:
32 unique CDR3
6 unique J



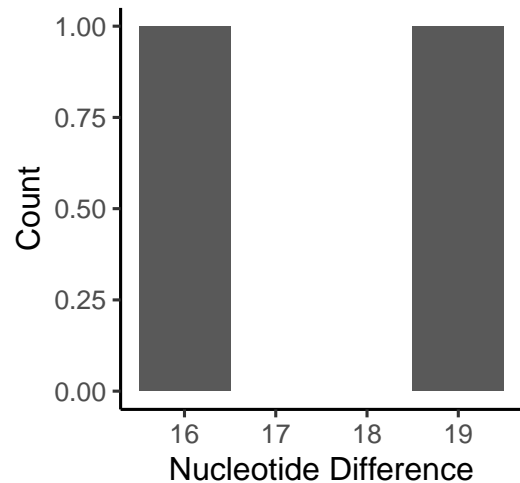
IGHV4-4*02_03

259 sequences assigned
61 (23.6%) exact matches, in which:
47 unique CDR3
5 unique J



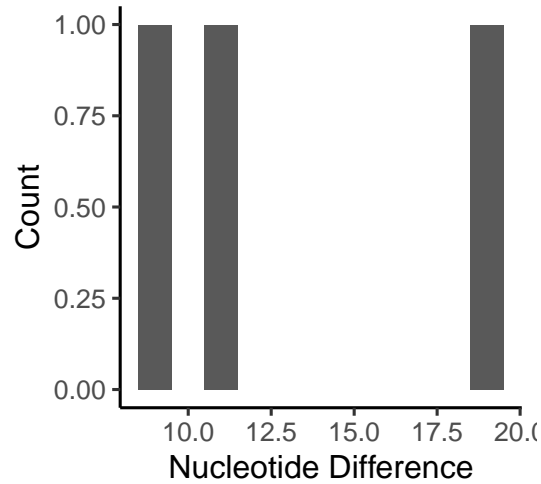
IGHV4-30-4*01

4 sequences assigned
No exact matches.



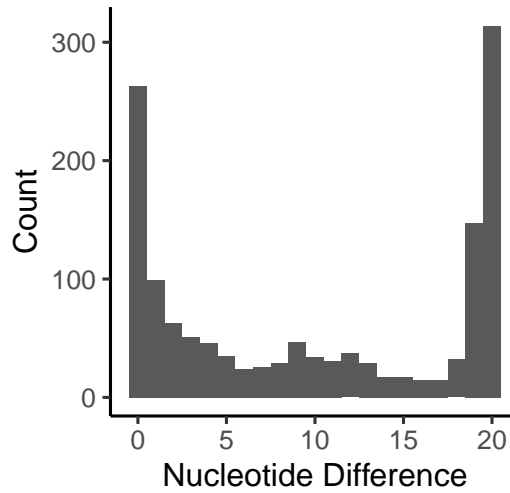
IGHV4-30-4*08

6 sequences assigned
No exact matches.



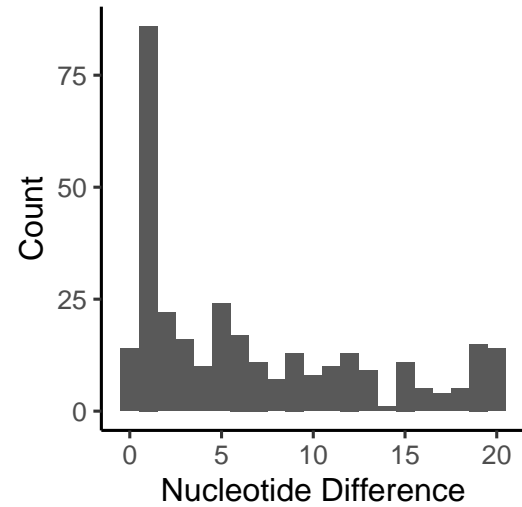
IGHV4-39*02_C258G

1712 sequences assigned
263 (15.4%) exact matches, in which:
234 unique CDR3
6 unique J



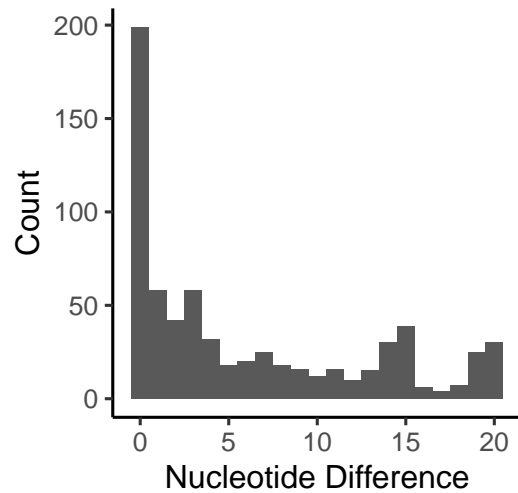
IGHV4-59*12

352 sequences assigned
14 (4%) exact matches, in which:
14 unique CDR3
3 unique J



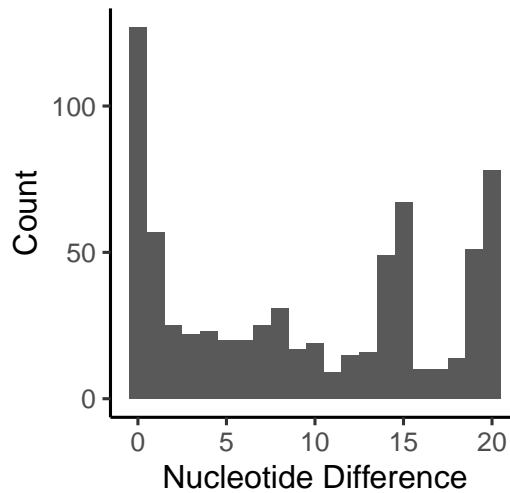
IGHV4-31*02

792 sequences assigned
199 (25.1%) exact matches, in which:
185 unique CDR3
6 unique J



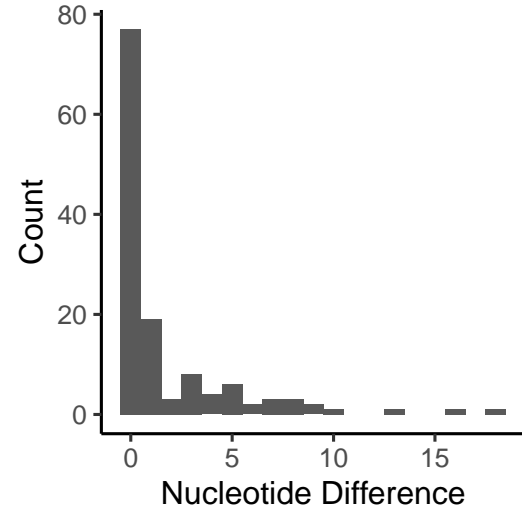
IGHV4-59*08

752 sequences assigned
127 (16.9%) exact matches, in which:
109 unique CDR3
6 unique J



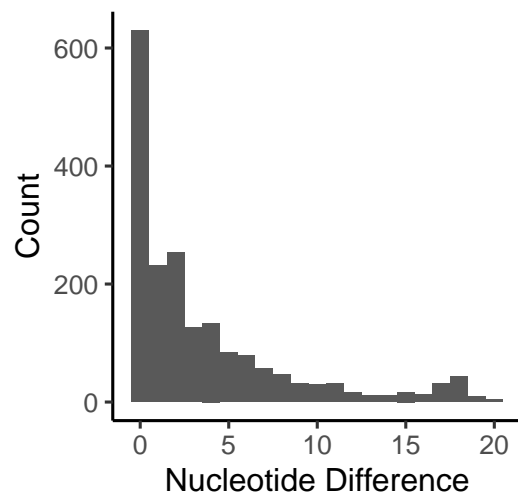
IGHV4-59*12_C300T

134 sequences assigned
77 (57.5%) exact matches, in which:
77 unique CDR3
5 unique J



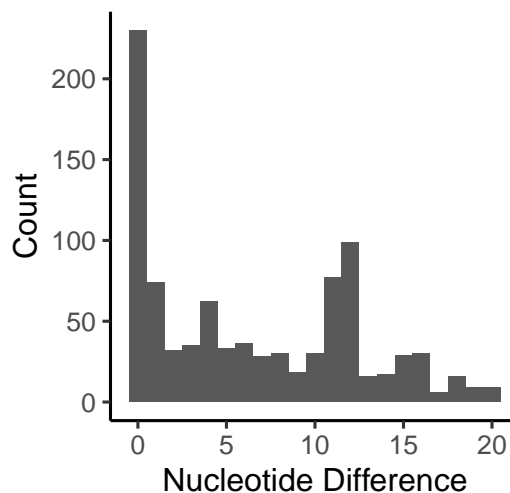
IGHV4-34*01_02

1983 sequences assigned
630 (31.8%) exact matches, in which:
468 unique CDR3
6 unique J



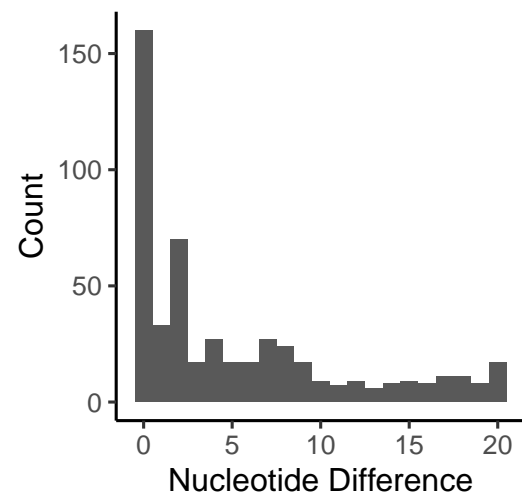
IGHV4-59*01_07

1179 sequences assigned
230 (19.5%) exact matches, in which:
201 unique CDR3
6 unique J



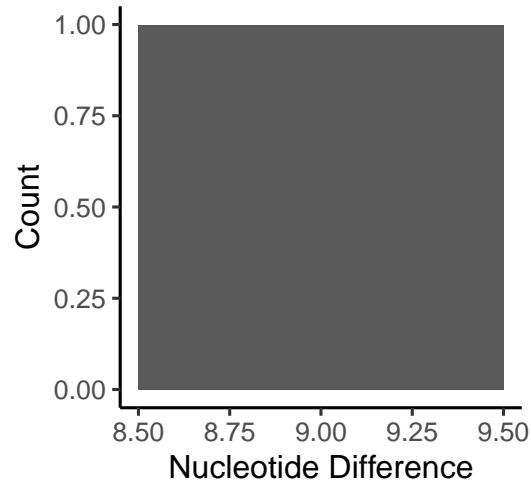
IGHV4-61*02

757 sequences assigned
160 (21.1%) exact matches, in which:
151 unique CDR3
6 unique J



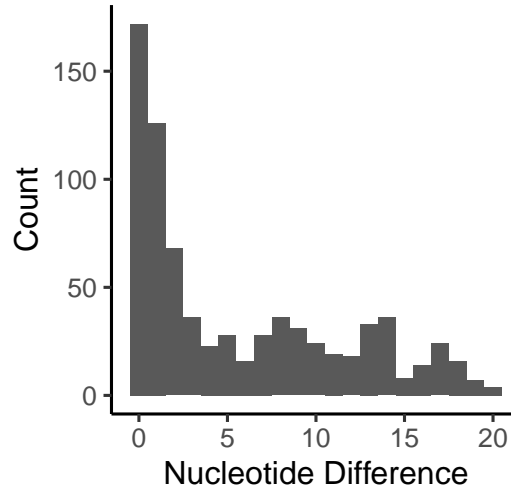
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



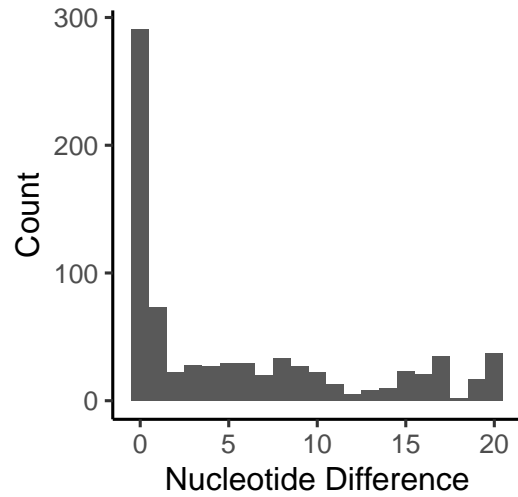
IGHV5–51*01_03

887 sequences assigned
172 (19.4%) exact matches, in which:
119 unique CDR3
5 unique J



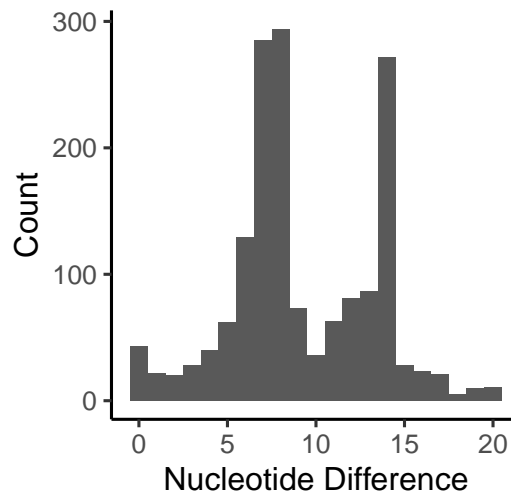
IGHV5–10–1*01_03

998 sequences assigned
291 (29.2%) exact matches, in which:
190 unique CDR3
6 unique J



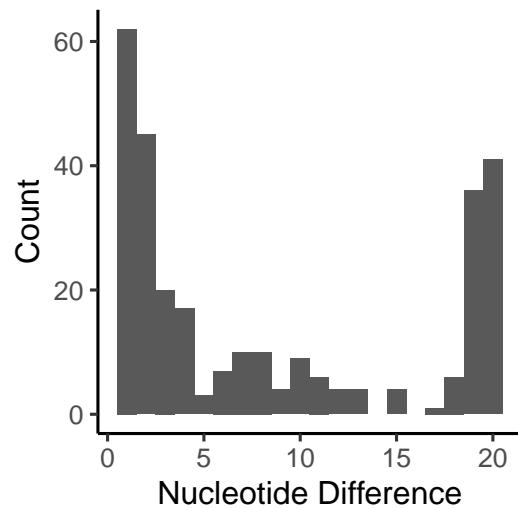
IGHV6–1*01_02

1645 sequences assigned
43 (2.6%) exact matches, in which:
43 unique CDR3
5 unique J



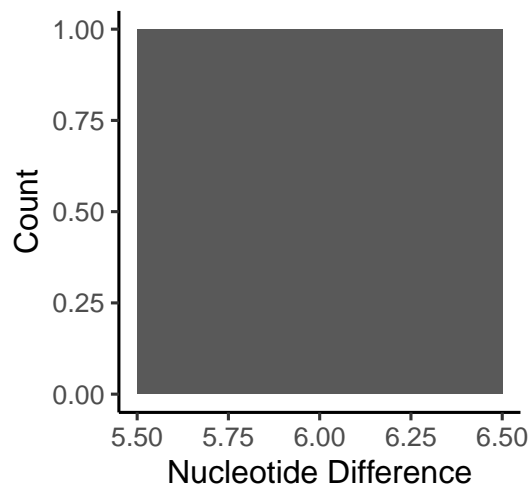
IGHV5–51*07

320 sequences assigned
No exact matches.

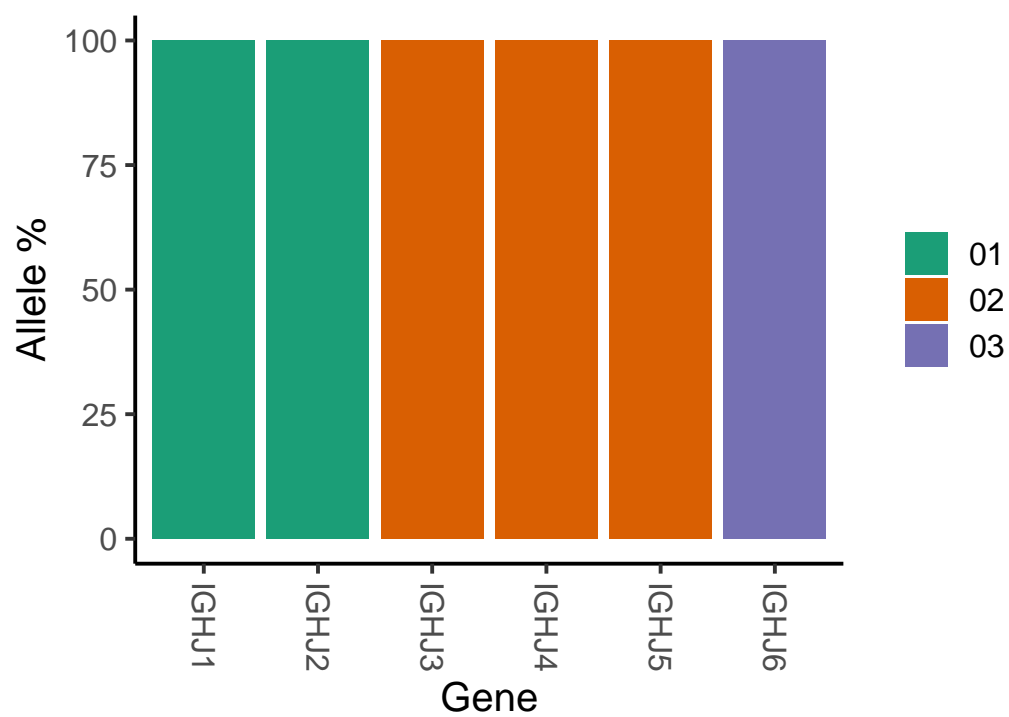


IGHV3/OR16–10*01_03

1 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.