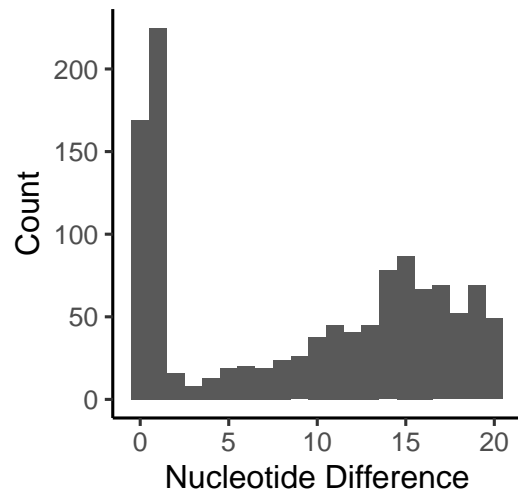


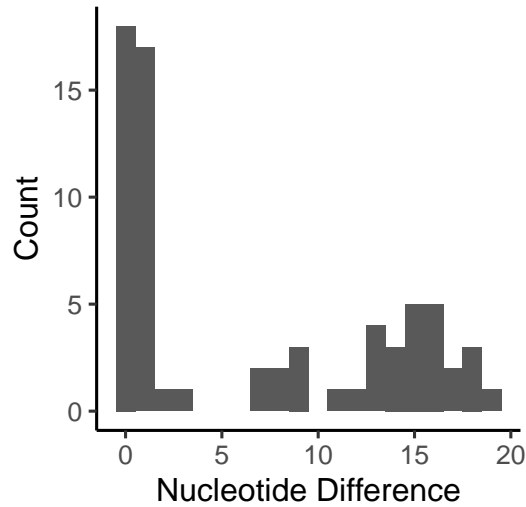
IGHV1-2*02

1434 sequences assigned
169 (11.8%) exact matches, in which:
113 unique CDR3
5 unique J



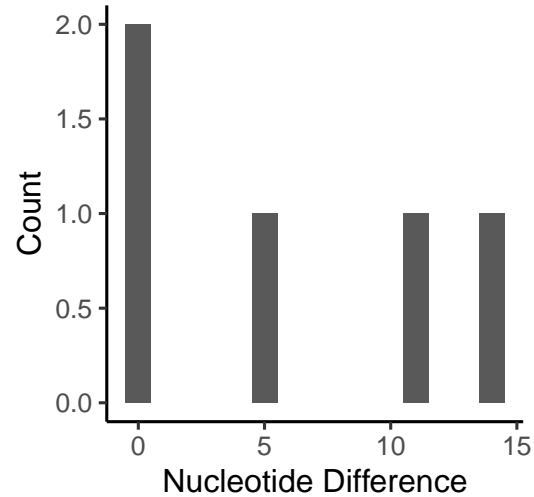
IGHV1-3*01_05

102 sequences assigned
18 (17.6%) exact matches, in which:
14 unique CDR3
3 unique J



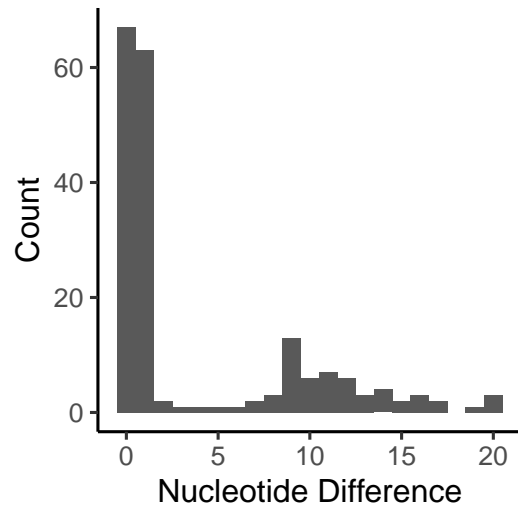
IGHV1-24*01

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



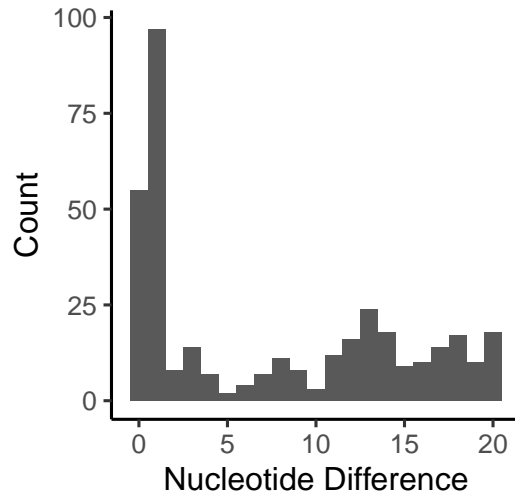
IGHV1-2*04

197 sequences assigned
67 (34%) exact matches, in which:
51 unique CDR3
5 unique J



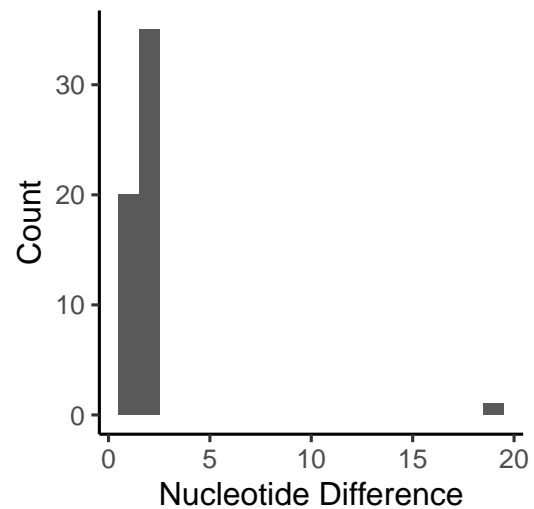
IGHV1-8*01

496 sequences assigned
55 (11.1%) exact matches, in which:
42 unique CDR3
4 unique J



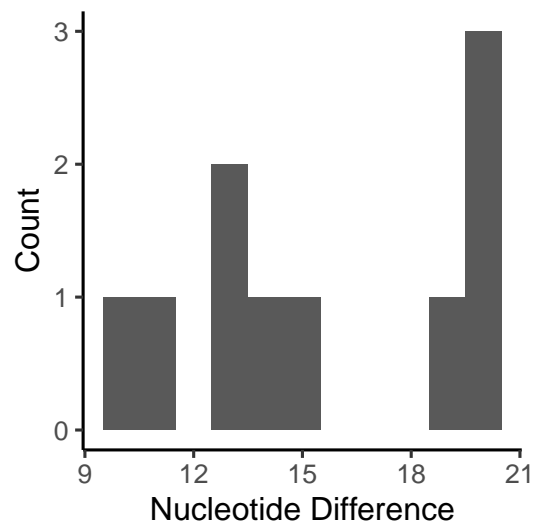
IGHV1-45*02

59 sequences assigned
No exact matches.



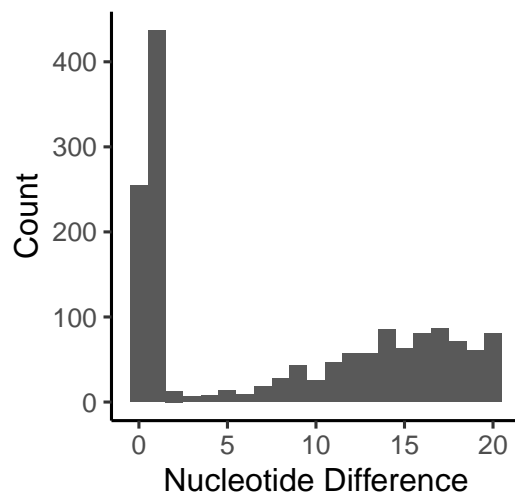
IGHV1-3*04

17 sequences assigned
No exact matches.



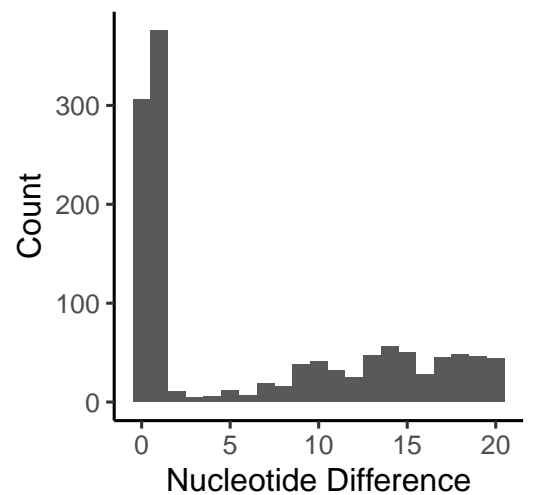
IGHV1-18*01

2065 sequences assigned
255 (12.3%) exact matches, in which:
153 unique CDR3
6 unique J



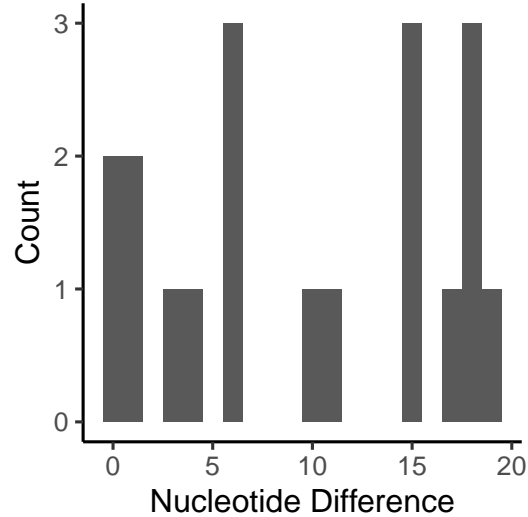
IGHV1-46*01

1827 sequences assigned
306 (16.7%) exact matches, in which:
218 unique CDR3
7 unique J



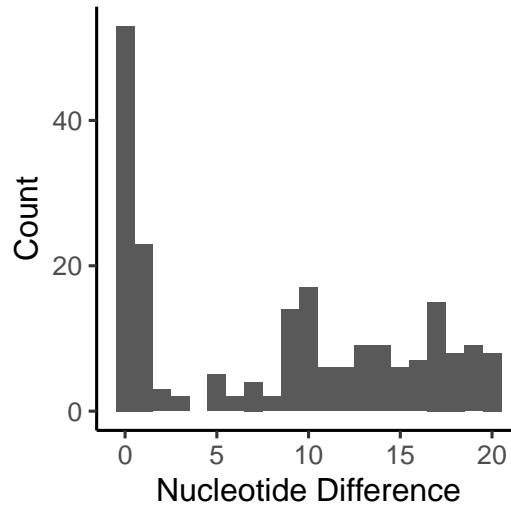
IGHV1-58*02

20 sequences assigned
2 (10%) exact matches, in which:
2 unique CDR3
1 unique J



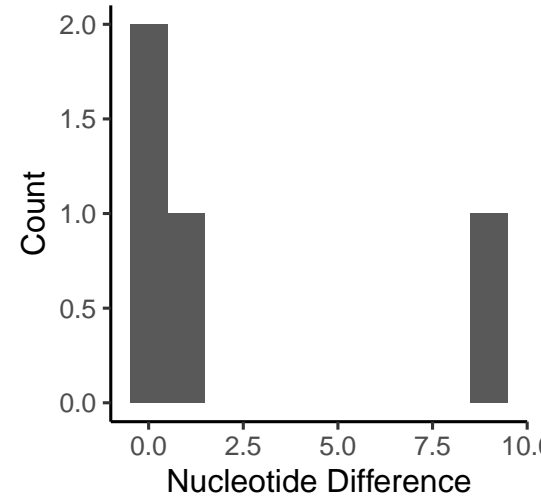
IGHV1-69*02

289 sequences assigned
53 (18.3%) exact matches, in which:
46 unique CDR3
4 unique J



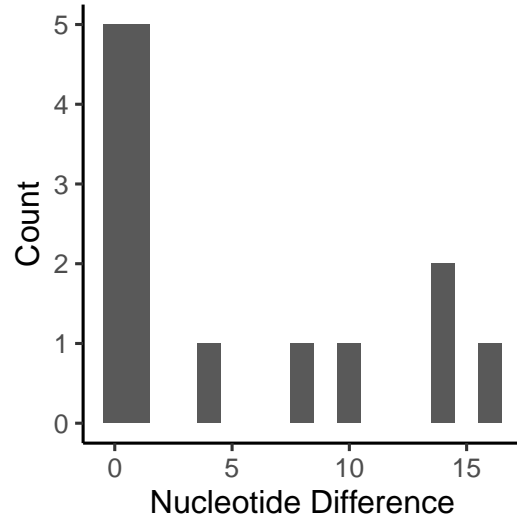
IGHV2-5*01

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
1 unique J



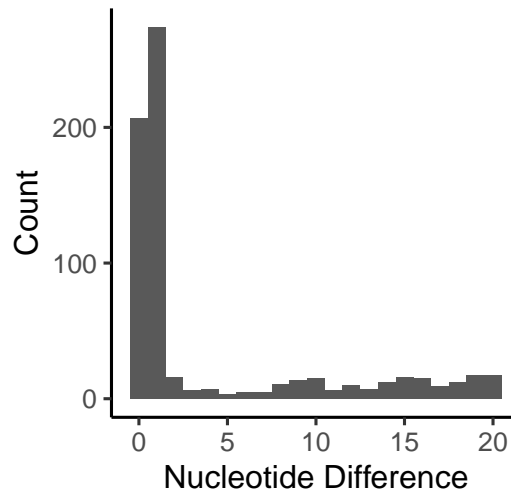
IGHV1-58*01_03

20 sequences assigned
5 (25%) exact matches, in which:
4 unique CDR3
2 unique J



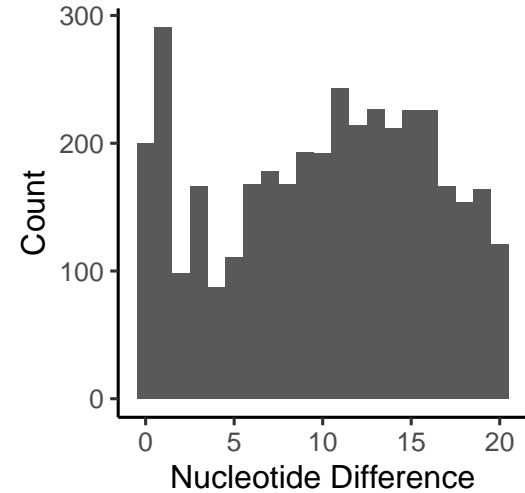
IGHV1-69*01_12_13

952 sequences assigned
207 (21.7%) exact matches, in which:
139 unique CDR3
5 unique J



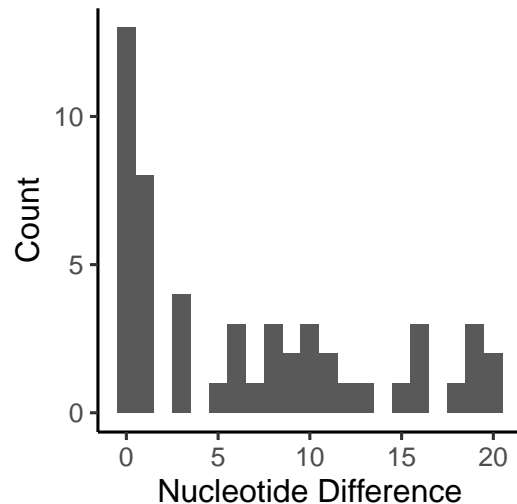
IGHV3-7*01

5231 sequences assigned
200 (3.8%) exact matches, in which:
131 unique CDR3
5 unique J



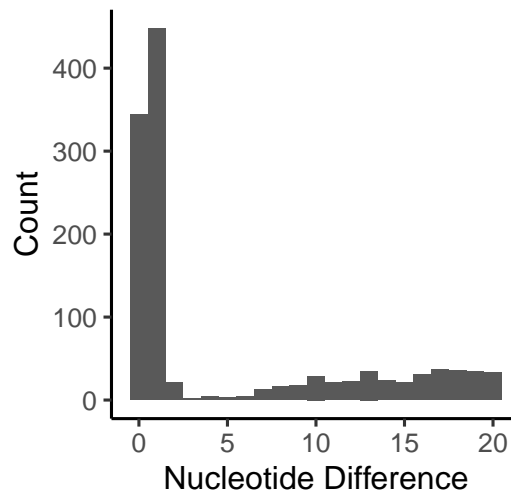
IGHV1-69-2*01

65 sequences assigned
13 (20%) exact matches, in which:
10 unique CDR3
3 unique J



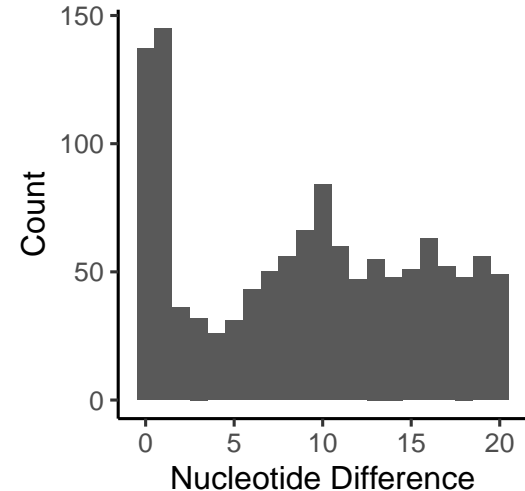
IGHV1-69*15_18

1498 sequences assigned
344 (23%) exact matches, in which:
244 unique CDR3
6 unique J



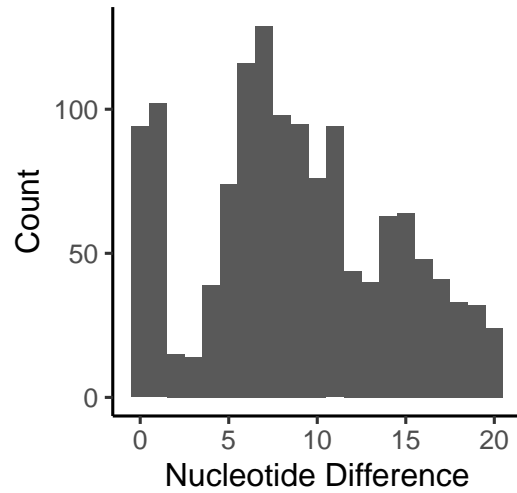
IGHV3-9*01

1827 sequences assigned
137 (7.5%) exact matches, in which:
91 unique CDR3
6 unique J



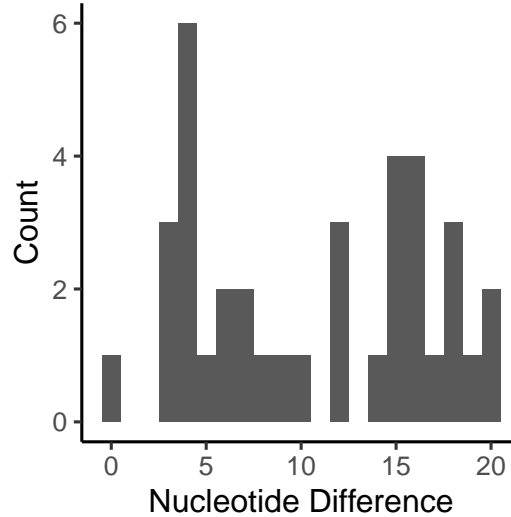
IGHV3-11*01

1514 sequences assigned
94 (6.2%) exact matches, in which:
62 unique CDR3
5 unique J



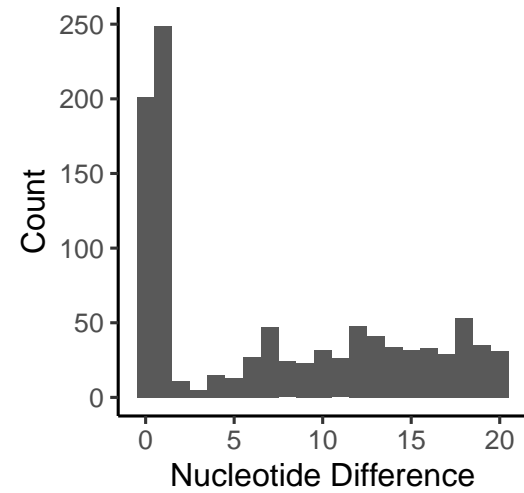
IGHV3-20*01_02

42 sequences assigned
1 (2.4%) exact matches, in which:
1 unique CDR3
1 unique J



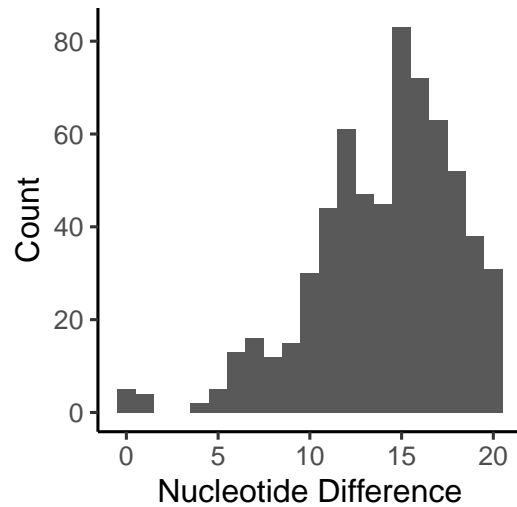
IGHV3-21*01_02

1143 sequences assigned
201 (17.6%) exact matches, in which:
126 unique CDR3
6 unique J



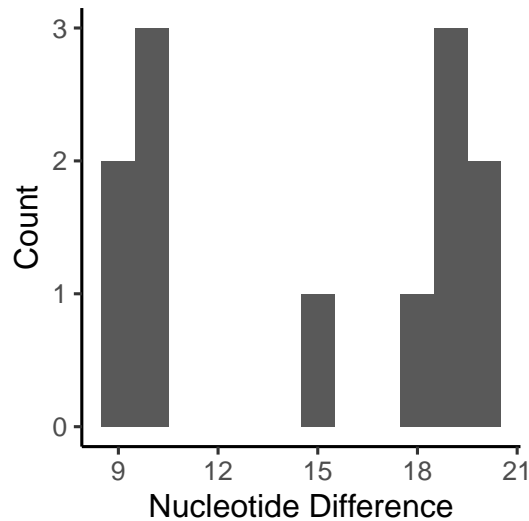
IGHV3-13*01

781 sequences assigned
5 (0.6%) exact matches, in which:
3 unique CDR3
2 unique J



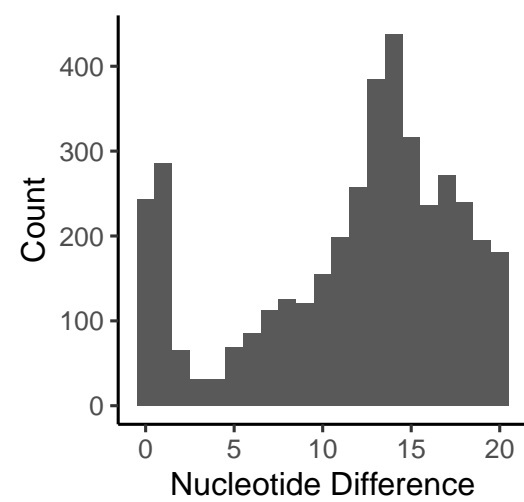
IGHV3-20*03_04

35 sequences assigned
No exact matches.



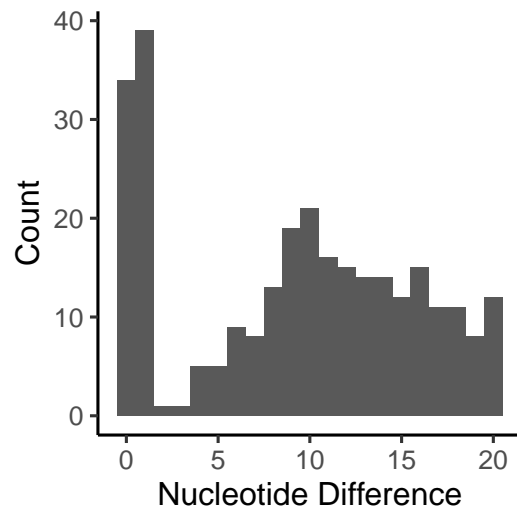
IGHV3-23*01_04

5633 sequences assigned
243 (4.3%) exact matches, in which:
163 unique CDR3
6 unique J



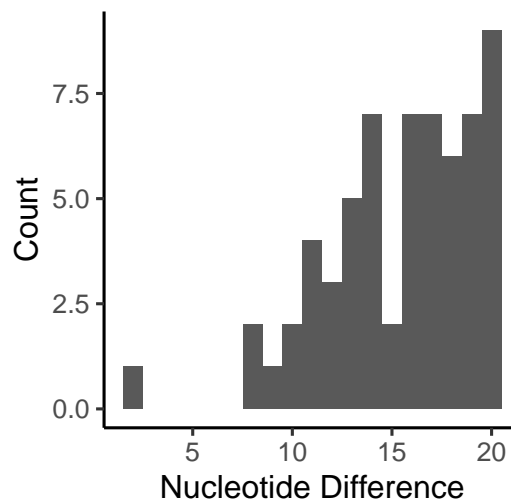
IGHV3-15*01_02

381 sequences assigned
34 (8.9%) exact matches, in which:
30 unique CDR3
5 unique J



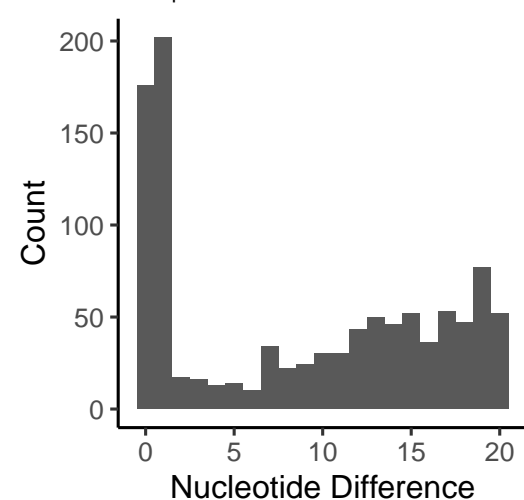
IGHV3-21*06

153 sequences assigned
No exact matches.



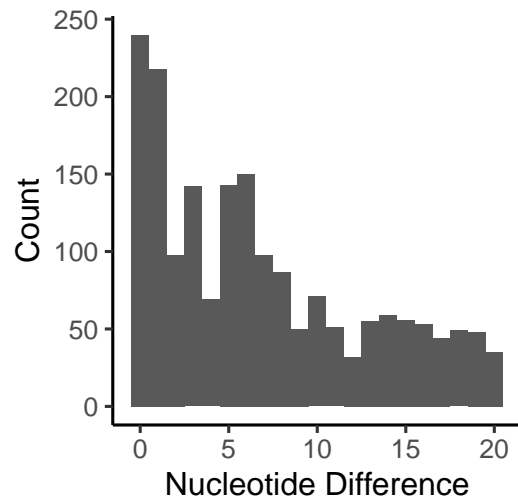
IGHV3-30-3*01

1502 sequences assigned
176 (11.7%) exact matches, in which:
127 unique CDR3
6 unique J



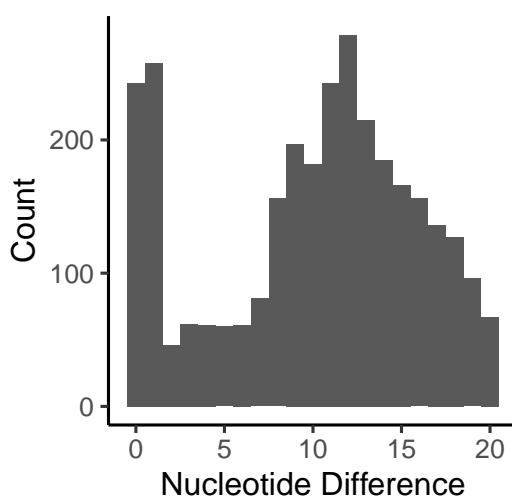
IGHV3–33*01

2149 sequences assigned
240 (11.2%) exact matches, in which:
124 unique CDR3
6 unique J



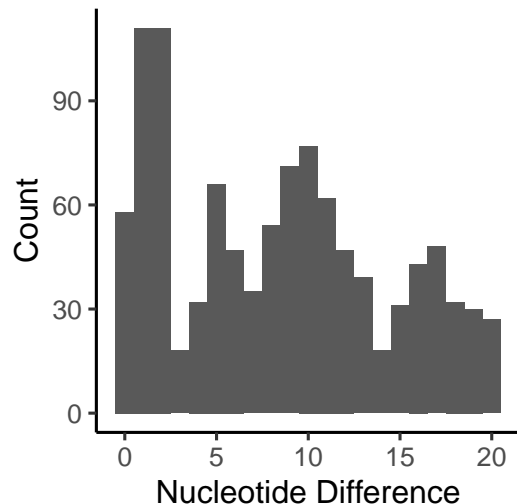
IGHV3–48*03

3662 sequences assigned
243 (6.6%) exact matches, in which:
174 unique CDR3
6 unique J



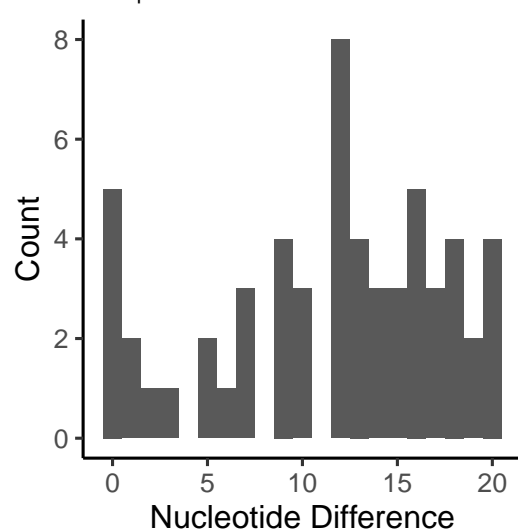
IGHV3–53*01_02

1455 sequences assigned
58 (4%) exact matches, in which:
44 unique CDR3
5 unique J



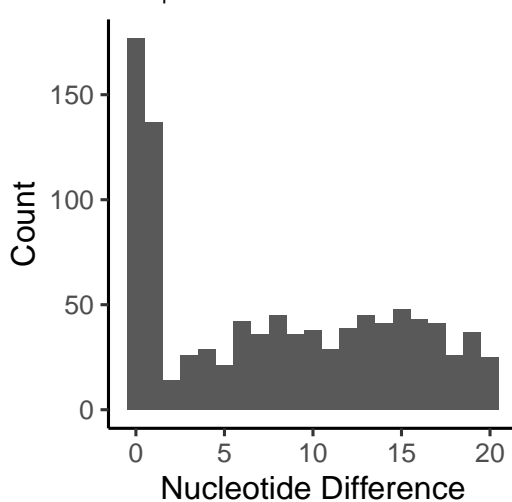
IGHV3–43*01

75 sequences assigned
5 (6.7%) exact matches, in which:
4 unique CDR3
3 unique J



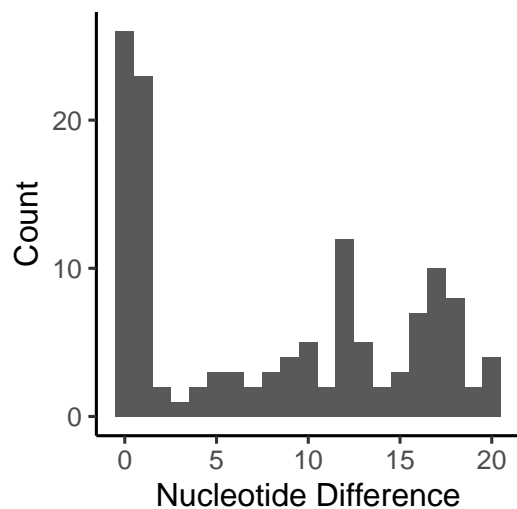
IGHV3–49*04

1199 sequences assigned
177 (14.8%) exact matches, in which:
124 unique CDR3
6 unique J



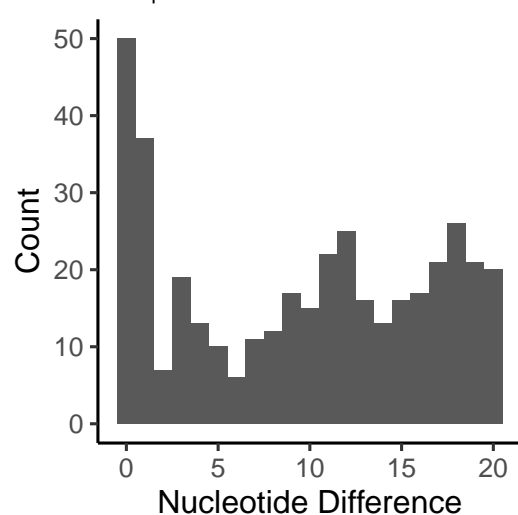
IGHV3–64*01

153 sequences assigned
26 (17%) exact matches, in which:
21 unique CDR3
4 unique J



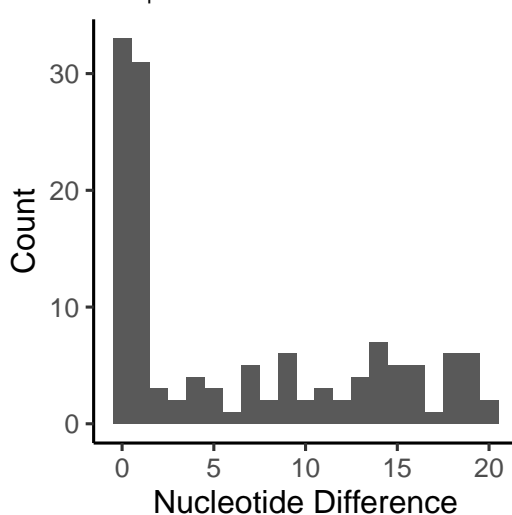
IGHV3–48*02

549 sequences assigned
50 (9.1%) exact matches, in which:
36 unique CDR3
6 unique J



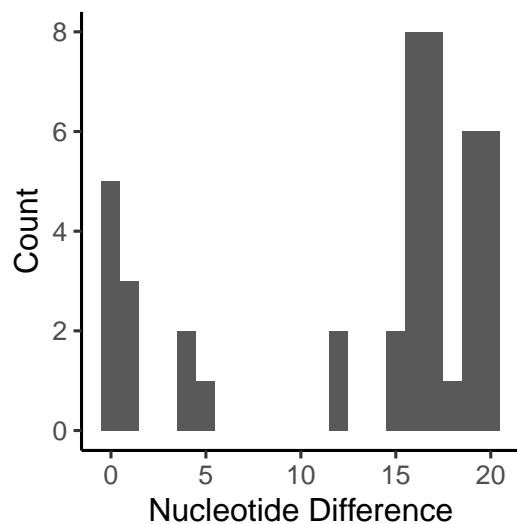
IGHV3–49*03_05

157 sequences assigned
33 (21%) exact matches, in which:
24 unique CDR3
5 unique J



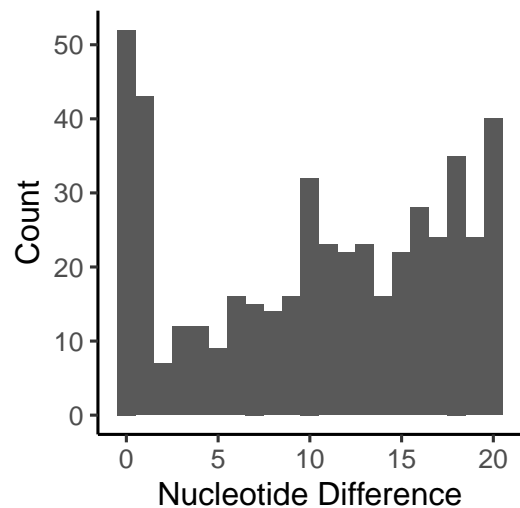
IGHV3–64*02_07

72 sequences assigned
5 (6.9%) exact matches, in which:
3 unique CDR3
1 unique J



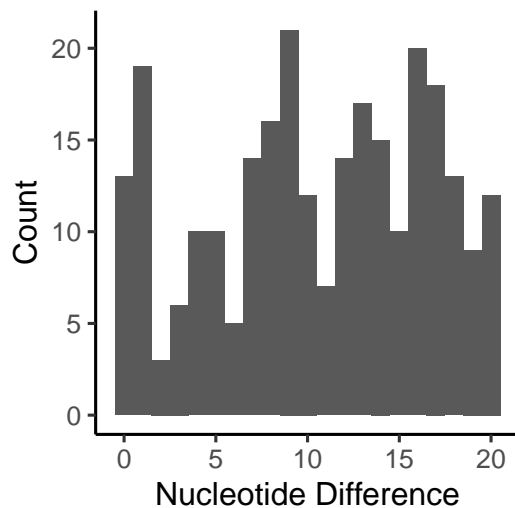
IGHV3-66*02

760 sequences assigned
52 (6.8%) exact matches, in which:
41 unique CDR3
5 unique J



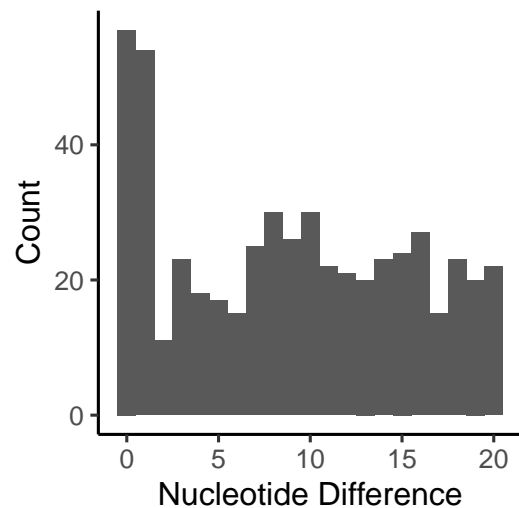
IGHV3-72*01

363 sequences assigned
13 (3.6%) exact matches, in which:
7 unique CDR3
3 unique J



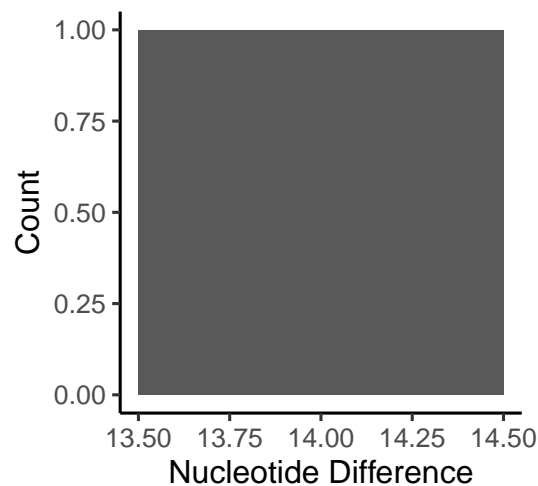
IGHV3-74*01_02

689 sequences assigned
57 (8.3%) exact matches, in which:
42 unique CDR3
6 unique J



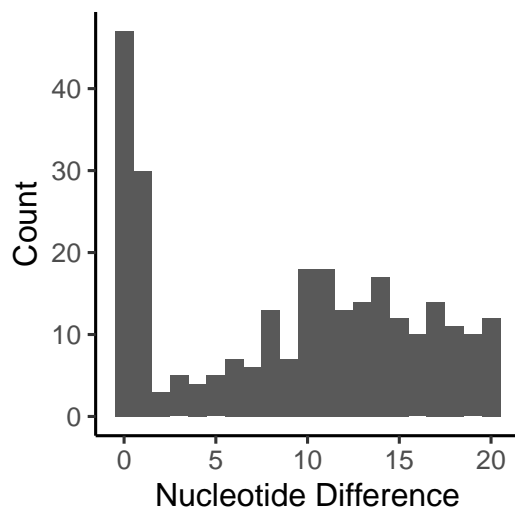
IGHV3-69-1*01

4 sequences assigned
No exact matches.



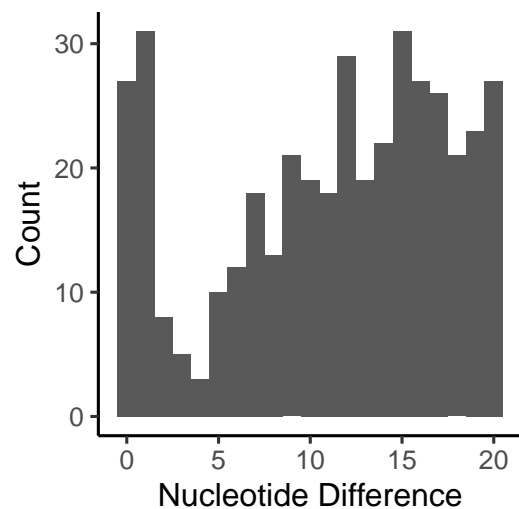
IGHV3-73*01_02

373 sequences assigned
47 (12.6%) exact matches, in which:
37 unique CDR3
4 unique J



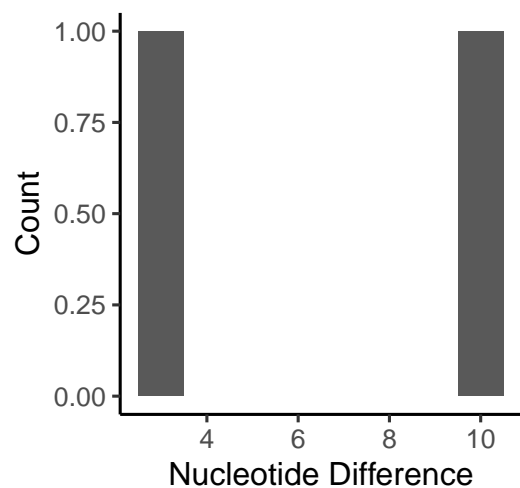
IGHV3-43D*04

566 sequences assigned
27 (4.8%) exact matches, in which:
19 unique CDR3
3 unique J



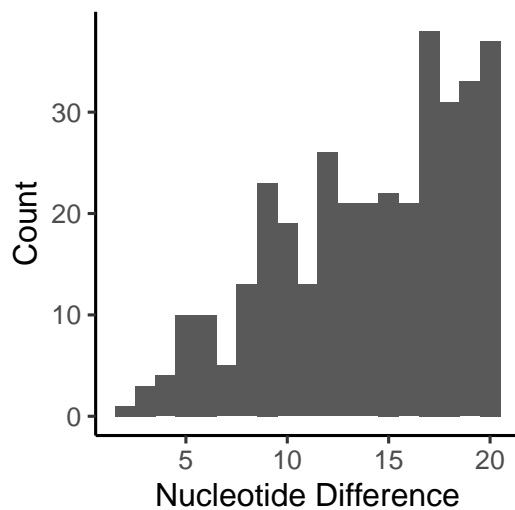
IGHV3-69-1*02

5 sequences assigned
No exact matches.



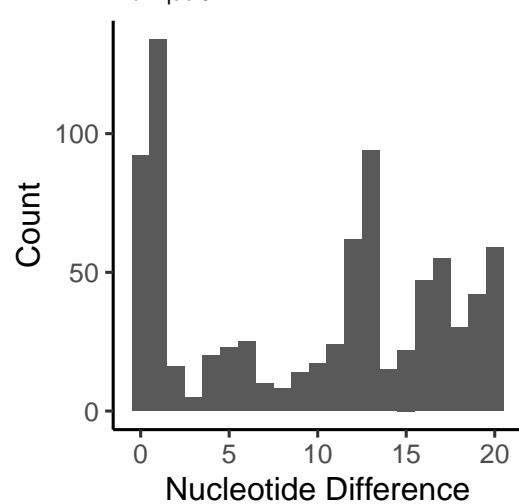
IGHV3-74*03

598 sequences assigned
No exact matches.



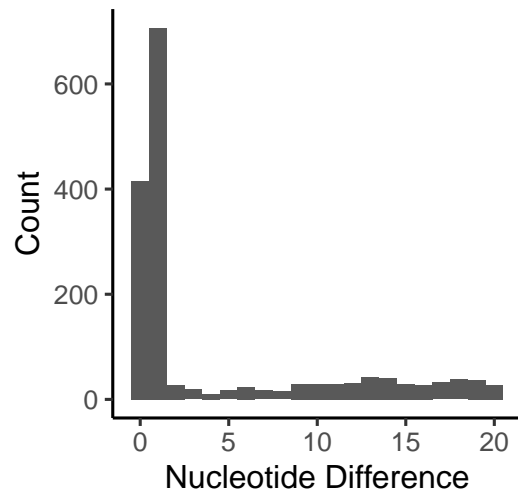
IGHV4-4*07

1276 sequences assigned
92 (7.2%) exact matches, in which:
54 unique CDR3
4 unique J



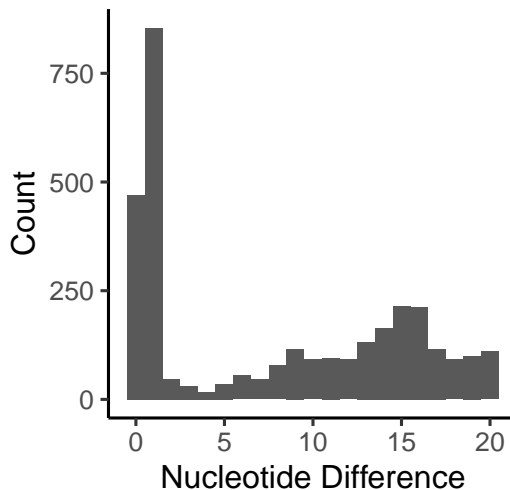
IGHV4-4*02_03

2017 sequences assigned
415 (20.6%) exact matches, in which:
235 unique CDR3
5 unique J



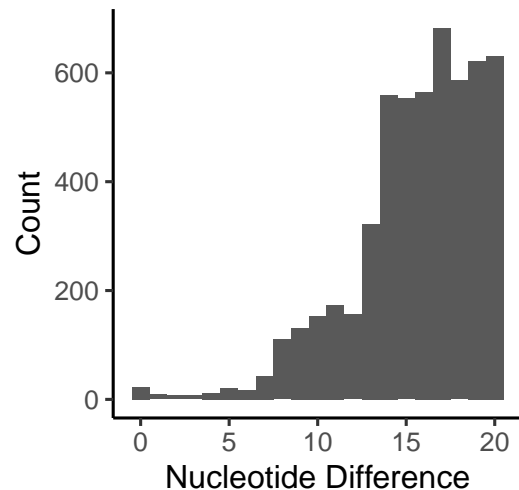
IGHV4-31*02

3917 sequences assigned
470 (12%) exact matches, in which:
234 unique CDR3
5 unique J



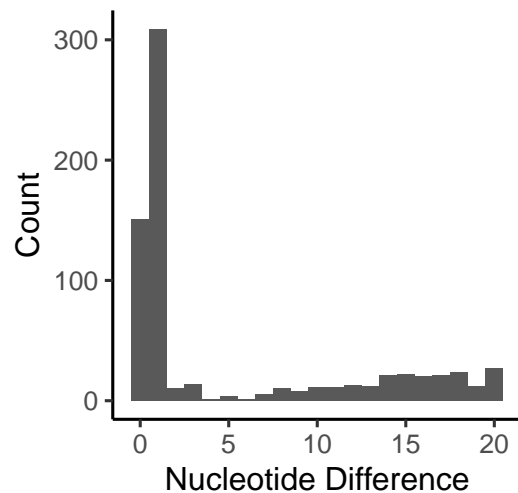
IGHV4-38-2*02

8316 sequences assigned
23 (0.3%) exact matches, in which:
19 unique CDR3
4 unique J



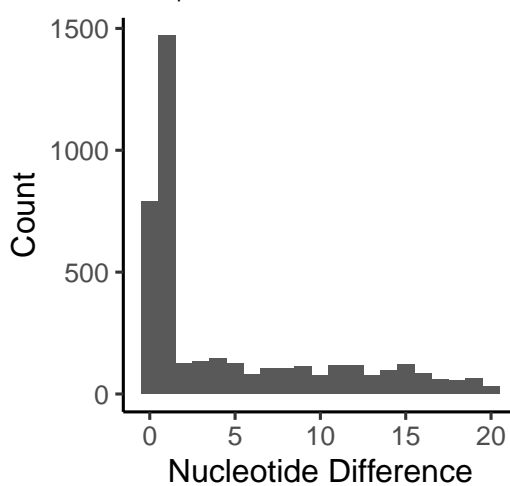
IGHV4-30-4*01

882 sequences assigned
151 (17.1%) exact matches, in which:
71 unique CDR3
5 unique J



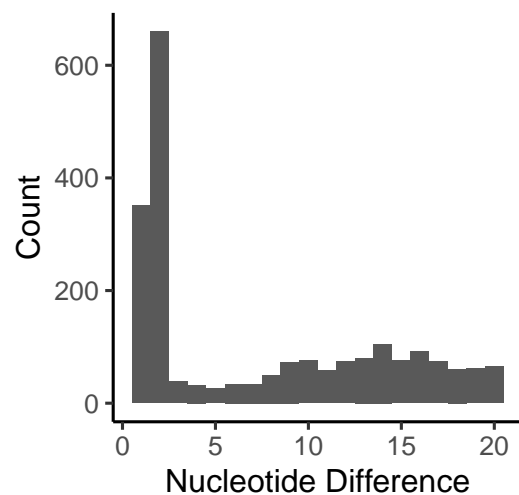
IGHV4-34*01_02

4341 sequences assigned
791 (18.2%) exact matches, in which:
406 unique CDR3
7 unique J



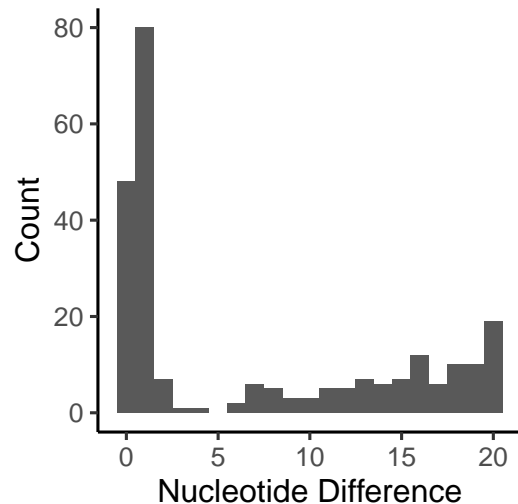
IGHV4-39*02

2834 sequences assigned
No exact matches.



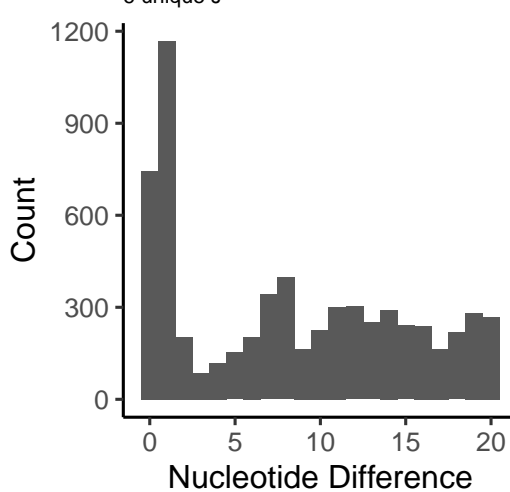
IGHV4-30-2*01

329 sequences assigned
48 (14.6%) exact matches, in which:
28 unique CDR3
4 unique J



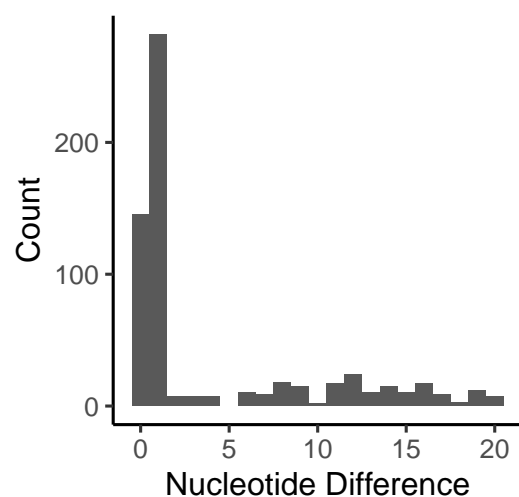
IGHV4-38-2*01

12631 sequences assigned
745 (5.9%) exact matches, in which:
448 unique CDR3
6 unique J



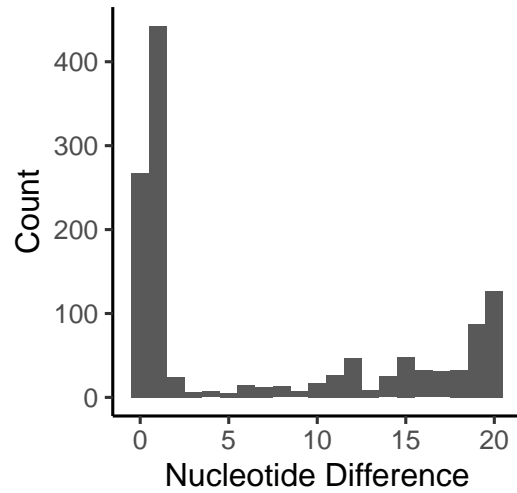
IGHV4-39*01_05

910 sequences assigned
145 (15.9%) exact matches, in which:
69 unique CDR3
3 unique J



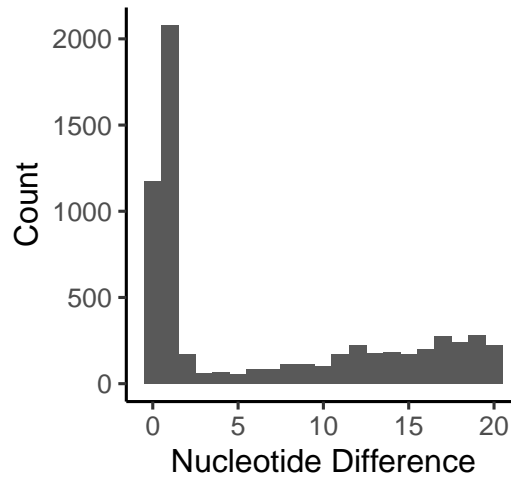
IGHV4–59*02

2635 sequences assigned
267 (10.1%) exact matches, in which:
134 unique CDR3
6 unique J



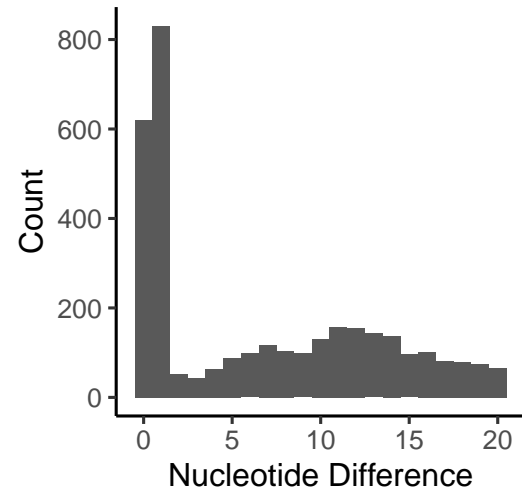
IGHV4–61*02

9256 sequences assigned
1175 (12.7%) exact matches, in which:
592 unique CDR3
7 unique J



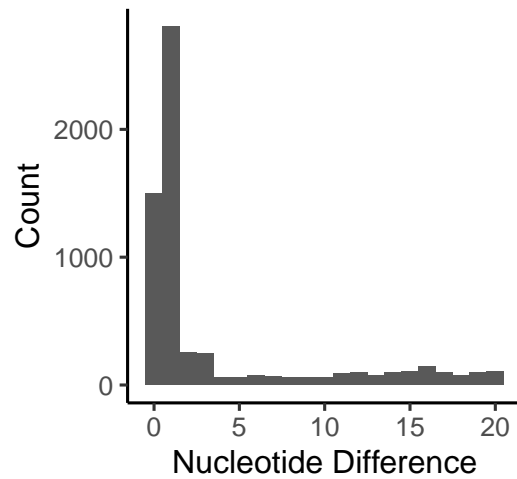
IGHV5–51*07_A128G_CS

4144 sequences assigned
620 (15%) exact matches, in which:
407 unique CDR3
6 unique J



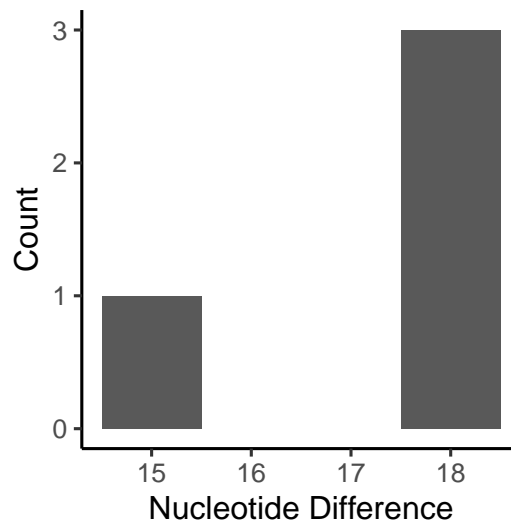
IGHV4–59*01_07

7174 sequences assigned
1496 (20.9%) exact matches, in which:
808 unique CDR3
7 unique J



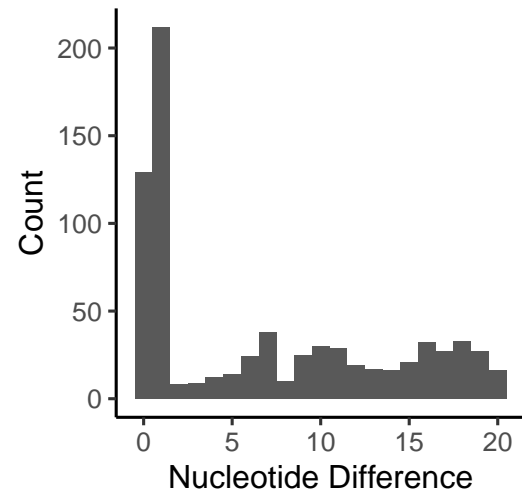
IGHV4/OR15–8*01

8 sequences assigned
No exact matches.



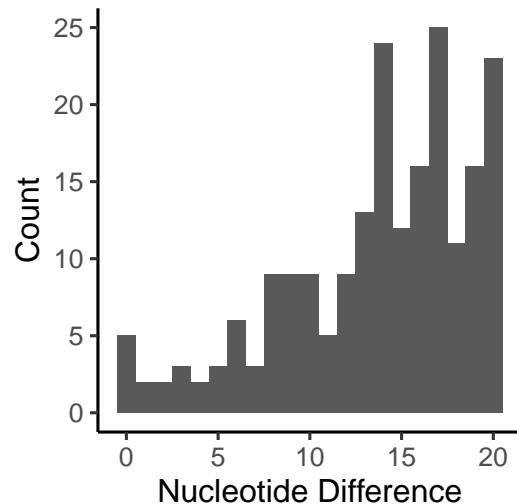
IGHV6–1*01_02

982 sequences assigned
129 (13.1%) exact matches, in which:
71 unique CDR3
4 unique J



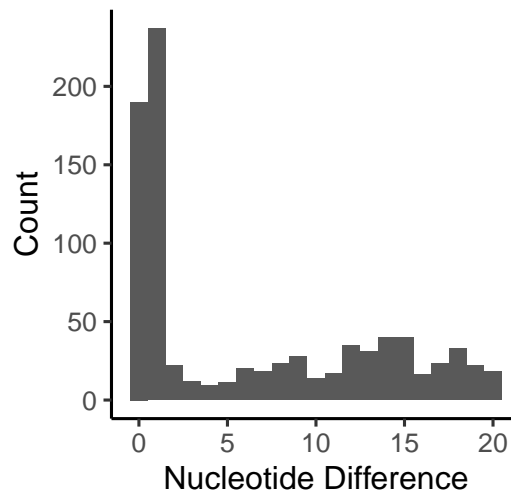
IGHV4–59*11

709 sequences assigned
5 (0.7%) exact matches, in which:
5 unique CDR3
3 unique J

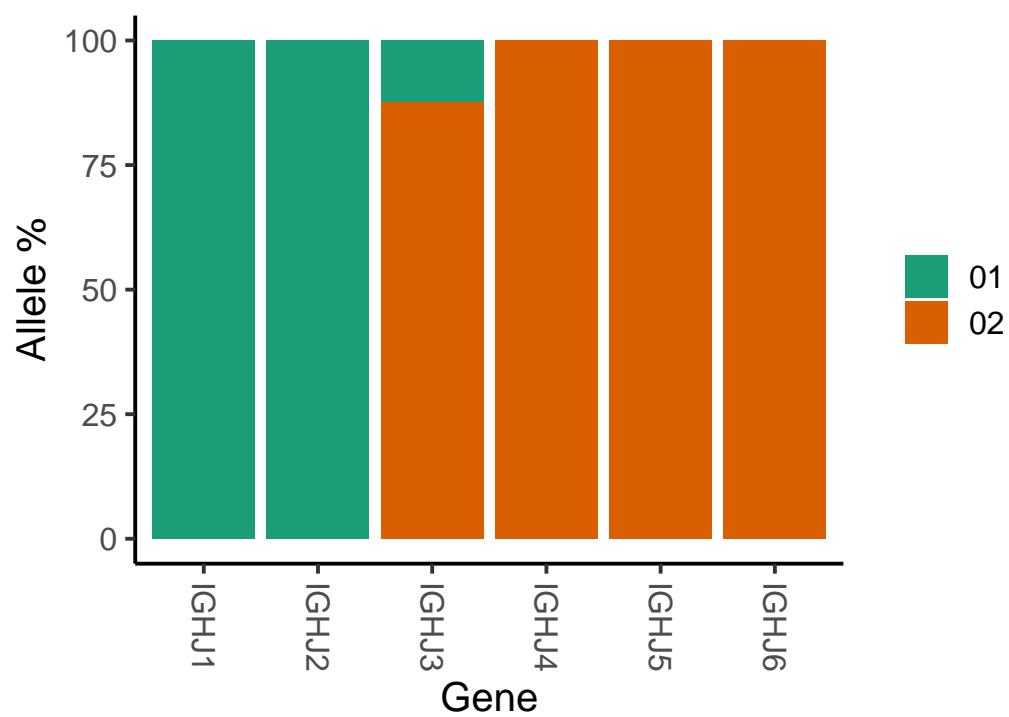


IGHV5–51*01_03

980 sequences assigned
190 (19.4%) exact matches, in which:
116 unique CDR3
5 unique J



Allele Usage



Warning – no inferred sequences found.