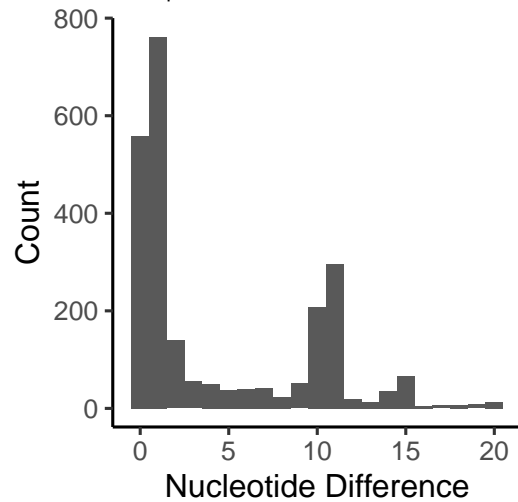


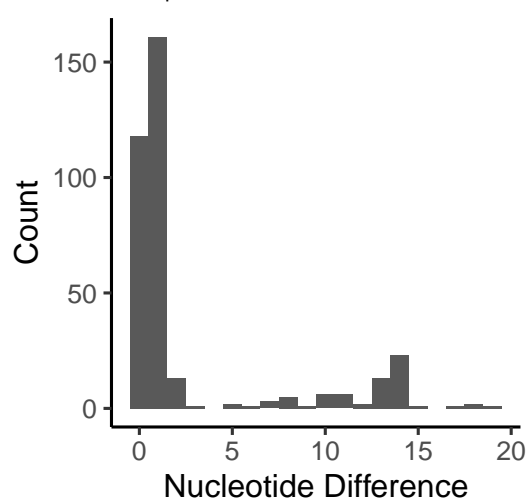
IGHV1-2*02

2473 sequences assigned
559 (22.6%) exact matches, in which:
410 unique CDR3
7 unique J



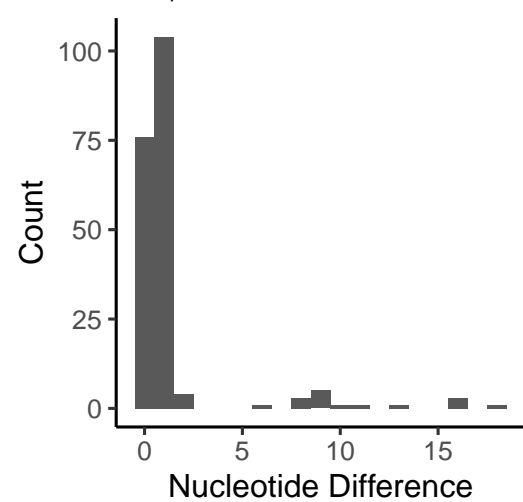
IGHV1-8*01

393 sequences assigned
118 (30%) exact matches, in which:
95 unique CDR3
5 unique J



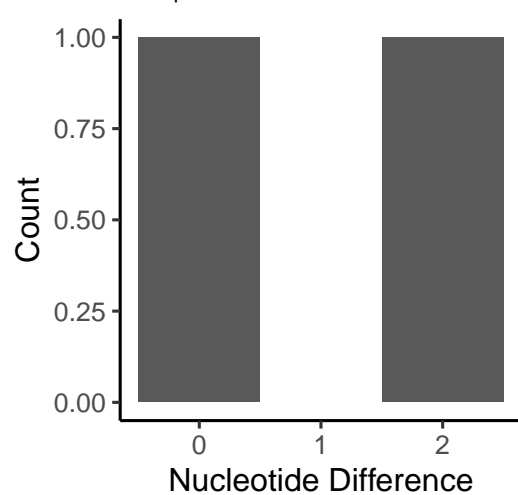
IGHV1-24*01

200 sequences assigned
76 (38%) exact matches, in which:
52 unique CDR3
5 unique J



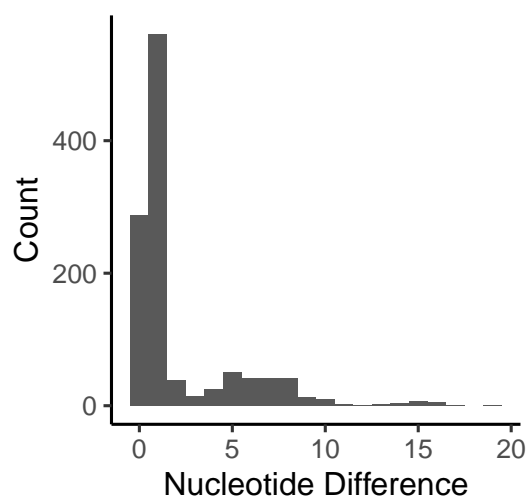
IGHV1-3*02

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



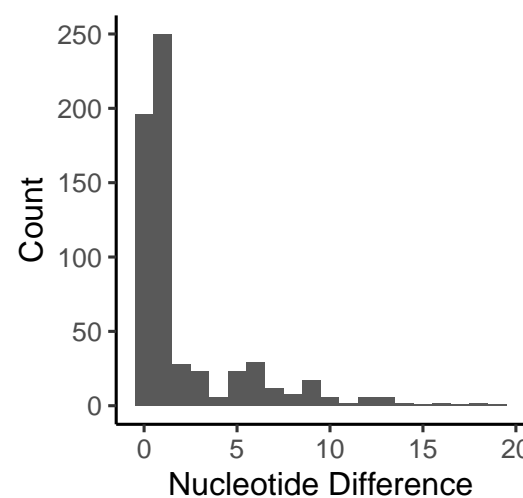
IGHV1-8*02

1156 sequences assigned
288 (24.9%) exact matches, in which:
194 unique CDR3
5 unique J



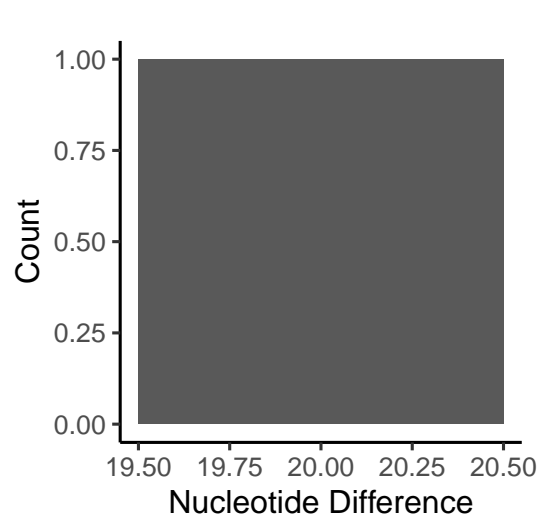
IGHV1-46*01

625 sequences assigned
196 (31.4%) exact matches, in which:
145 unique CDR3
5 unique J



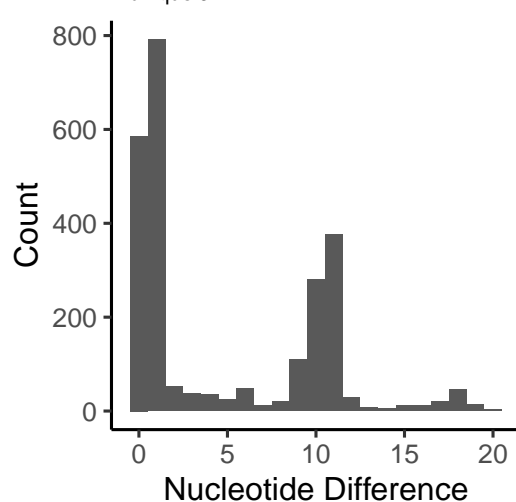
IGHV1-3*01_05

4 sequences assigned
No exact matches.



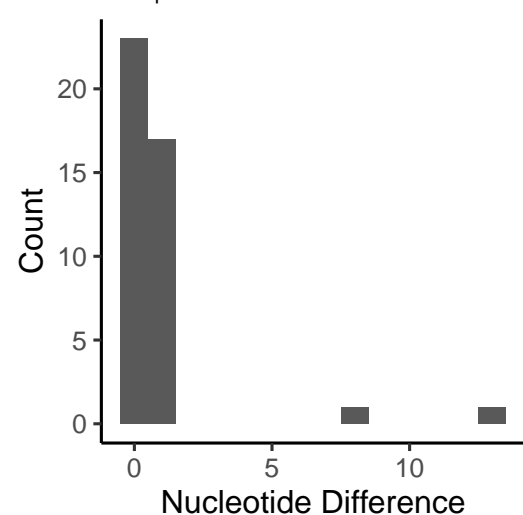
IGHV1-18*01

2657 sequences assigned
586 (22.1%) exact matches, in which:
415 unique CDR3
7 unique J



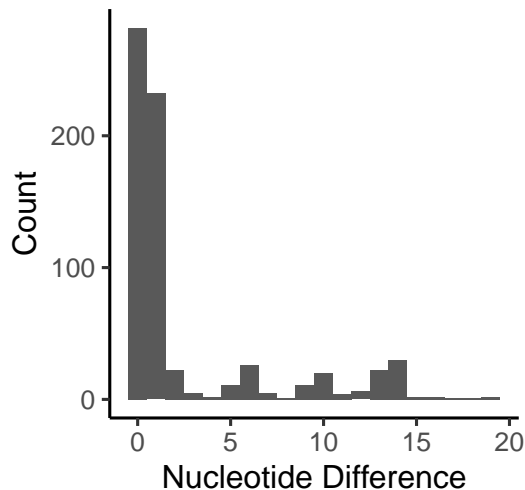
IGHV1-58*02

44 sequences assigned
23 (52.3%) exact matches, in which:
17 unique CDR3
5 unique J



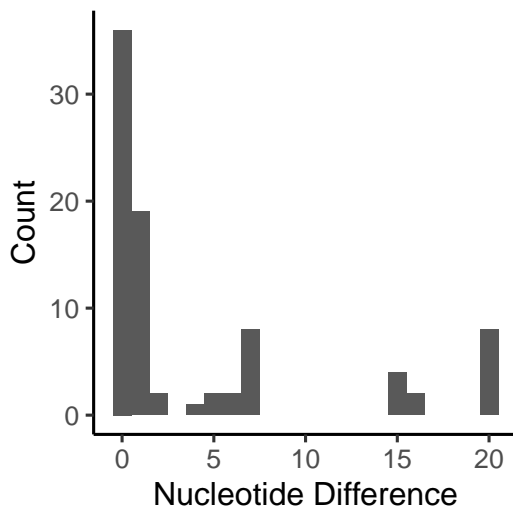
IGHV1–69*10

687 sequences assigned
282 (41%) exact matches, in which:
234 unique CDR3
7 unique J



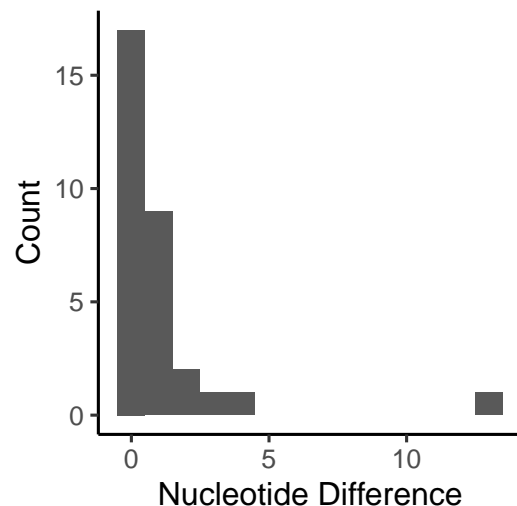
IGHV2–5*02

212 sequences assigned
36 (17%) exact matches, in which:
33 unique CDR3
5 unique J



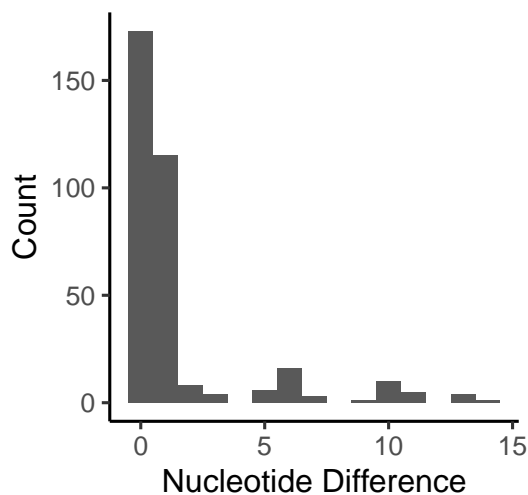
IGHV2–70*11_15

662 sequences assigned
17 (2.6%) exact matches, in which:
13 unique CDR3
2 unique J



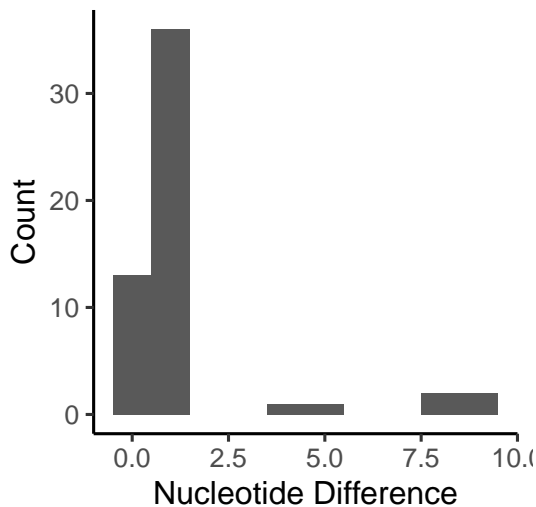
IGHV1–69*04_09

357 sequences assigned
173 (48.5%) exact matches, in which:
152 unique CDR3
6 unique J



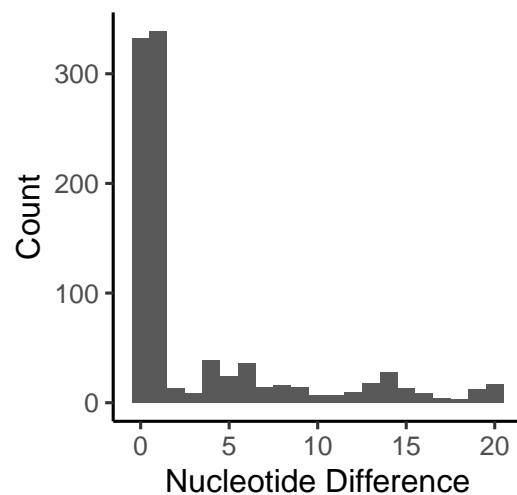
IGHV2–26*01

55 sequences assigned
13 (23.6%) exact matches, in which:
6 unique CDR3
3 unique J



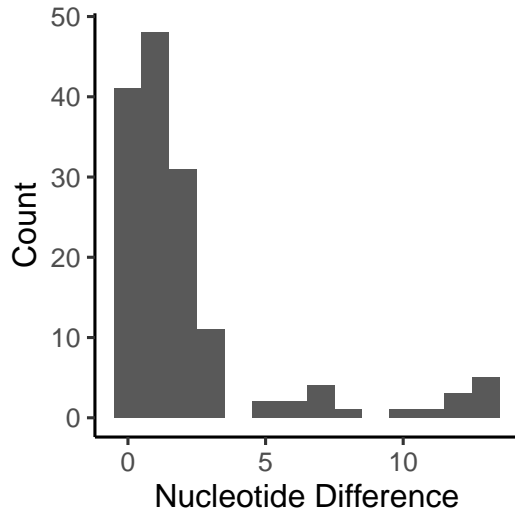
IGHV3–7*01

2714 sequences assigned
332 (12.2%) exact matches, in which:
192 unique CDR3
7 unique J



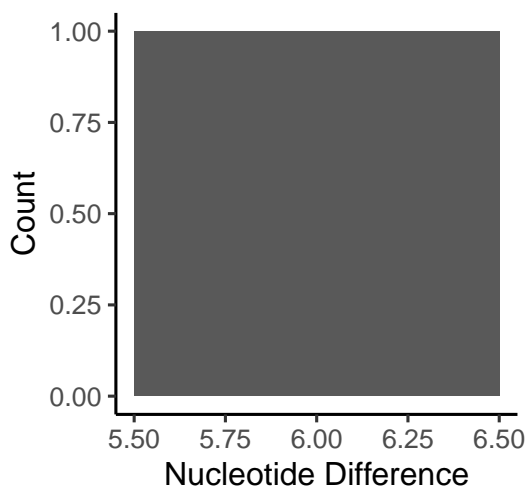
IGHV2–5*01

151 sequences assigned
41 (27.2%) exact matches, in which:
32 unique CDR3
7 unique J



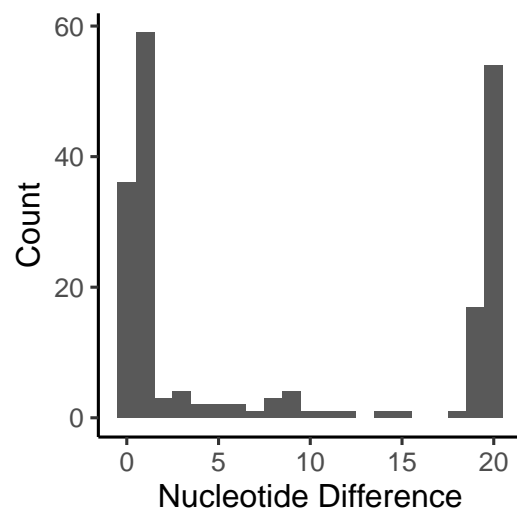
IGHV2–26*04

1 sequences assigned
No exact matches.



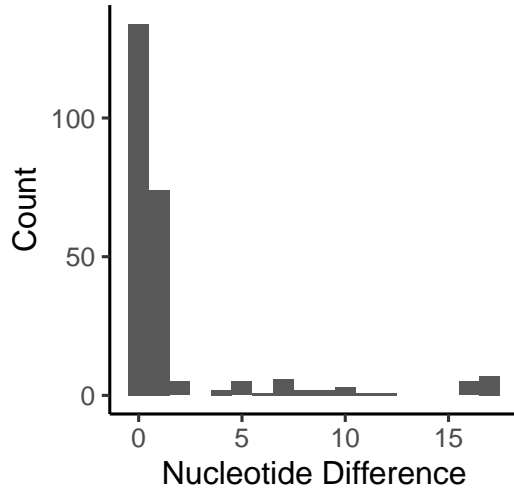
IGHV3–7*03

308 sequences assigned
36 (11.7%) exact matches, in which:
19 unique CDR3
2 unique J



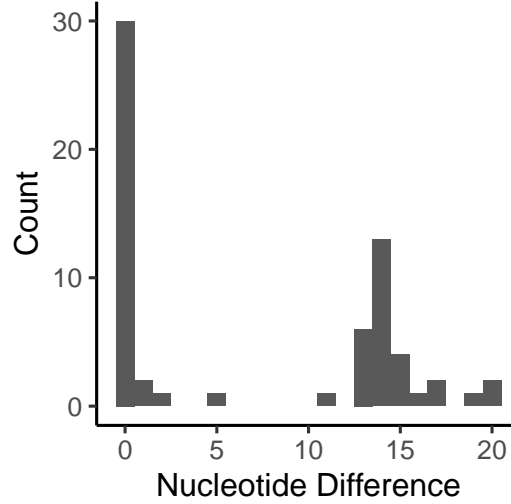
IGHV3-9*01

703 sequences assigned
134 (19.1%) exact matches, in which:
75 unique CDR3
6 unique J



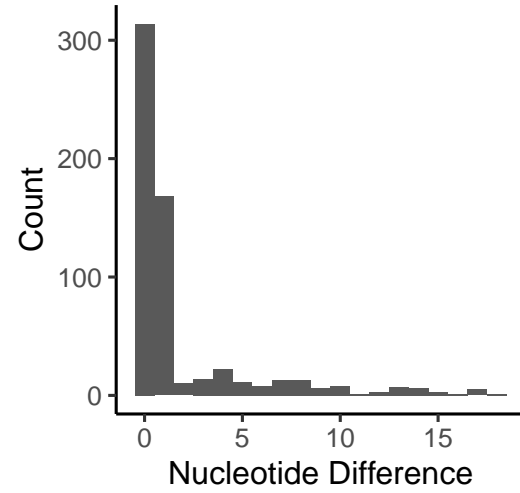
IGHV3-13*01

76 sequences assigned
30 (39.5%) exact matches, in which:
20 unique CDR3
5 unique J



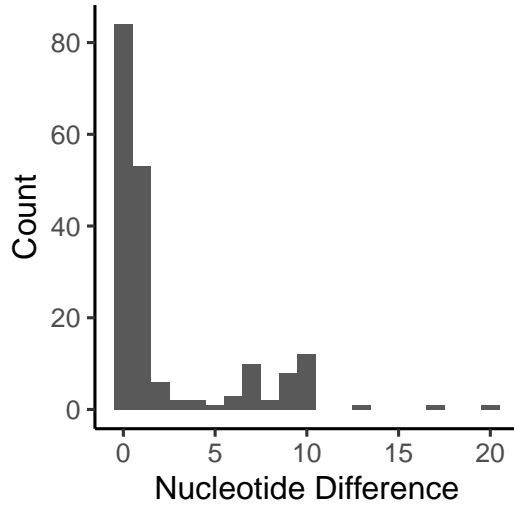
IGHV3-21*01_02

635 sequences assigned
314 (49.4%) exact matches, in which:
183 unique CDR3
7 unique J



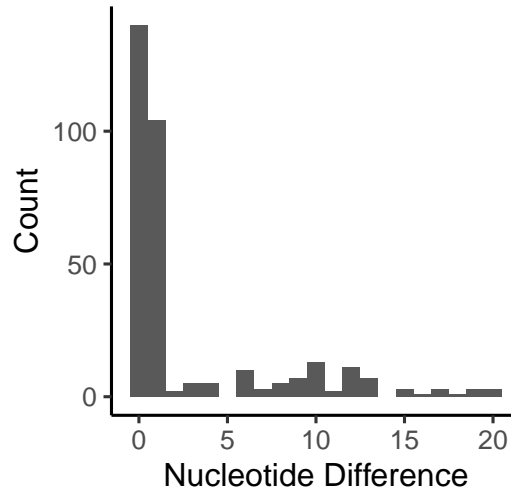
IGHV3-11*01

190 sequences assigned
84 (44.2%) exact matches, in which:
44 unique CDR3
6 unique J



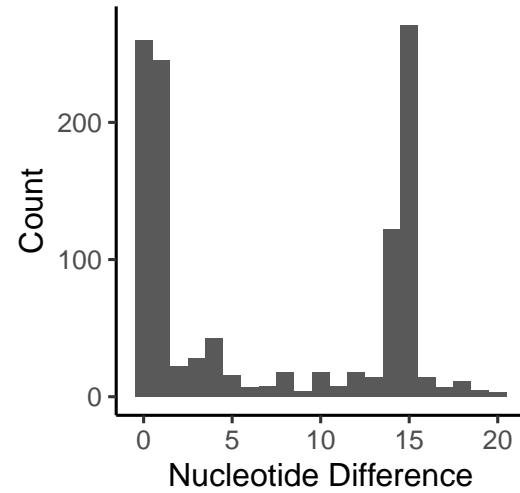
IGHV3-15*01_02

400 sequences assigned
140 (35%) exact matches, in which:
79 unique CDR3
6 unique J



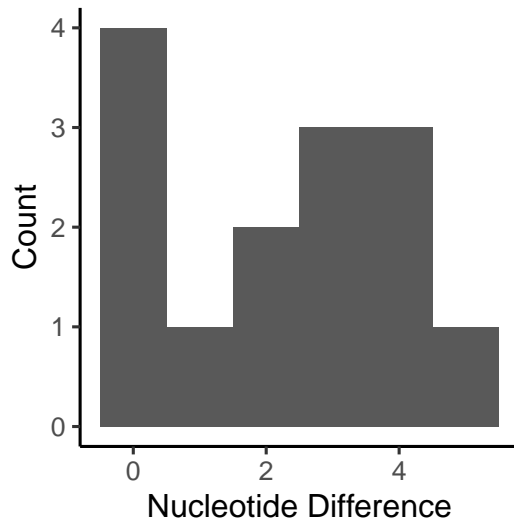
IGHV3-23*03

1828 sequences assigned
260 (14.2%) exact matches, in which:
144 unique CDR3
6 unique J



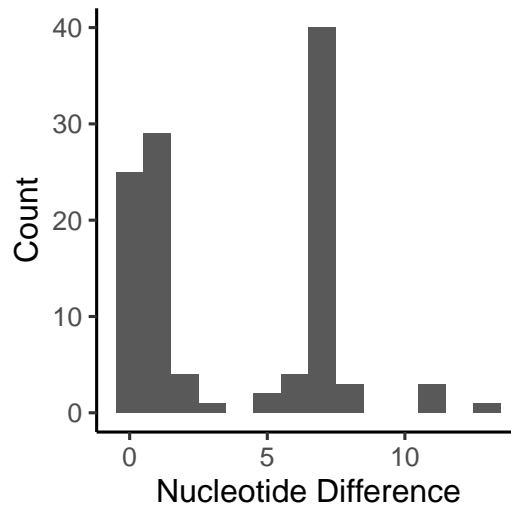
IGHV3-11*04

17 sequences assigned
4 (23.5%) exact matches, in which:
4 unique CDR3
2 unique J



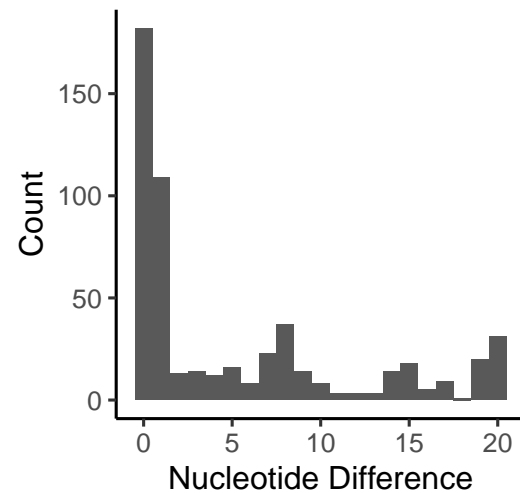
IGHV3-20*03_04

1225 sequences assigned
25 (2%) exact matches, in which:
16 unique CDR3
5 unique J



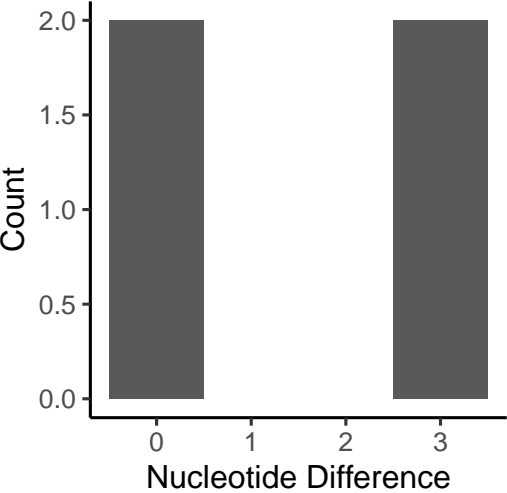
IGHV3-23*01_04

640 sequences assigned
182 (28.4%) exact matches, in which:
106 unique CDR3
6 unique J



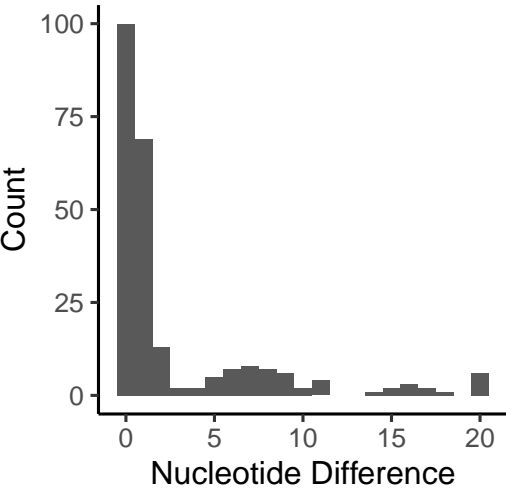
IGHV3-30-5*01

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



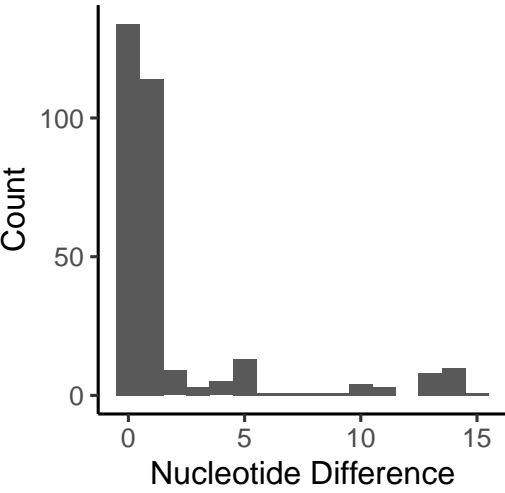
IGHV3-33*08

660 sequences assigned
100 (15.2%) exact matches, in which:
59 unique CDR3
5 unique J



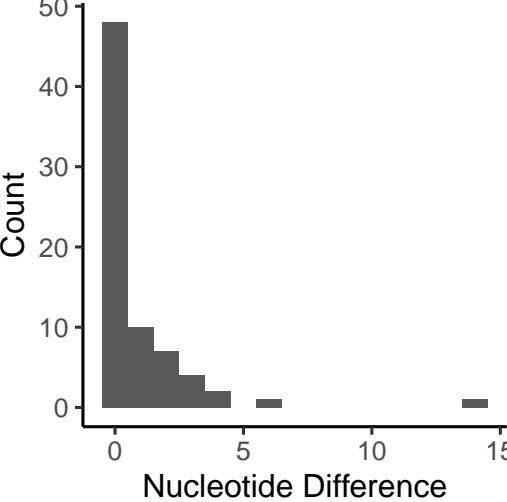
IGHV3-48*02

315 sequences assigned
134 (42.5%) exact matches, in which:
68 unique CDR3
5 unique J



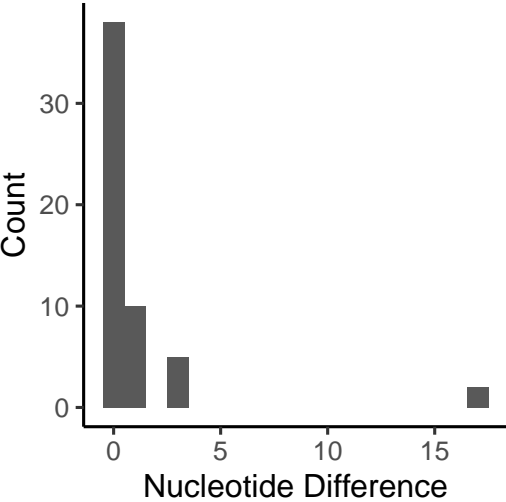
IGHV3-33*01

75 sequences assigned
48 (64%) exact matches, in which:
36 unique CDR3
6 unique J



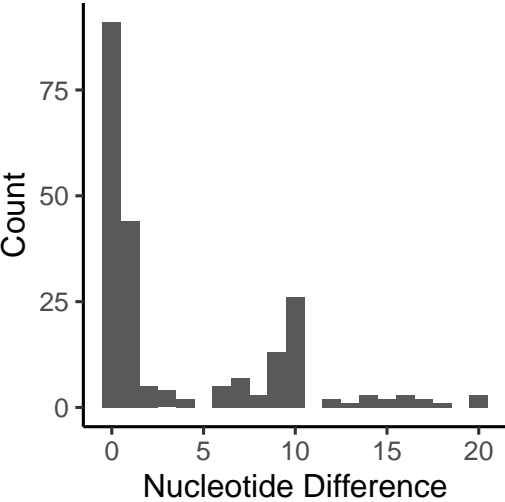
IGHV3-43*02

61 sequences assigned
38 (62.3%) exact matches, in which:
23 unique CDR3
4 unique J



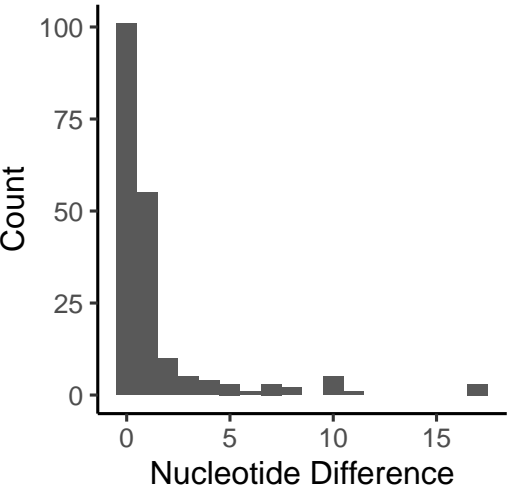
IGHV3-48*03

361 sequences assigned
91 (25.2%) exact matches, in which:
48 unique CDR3
4 unique J



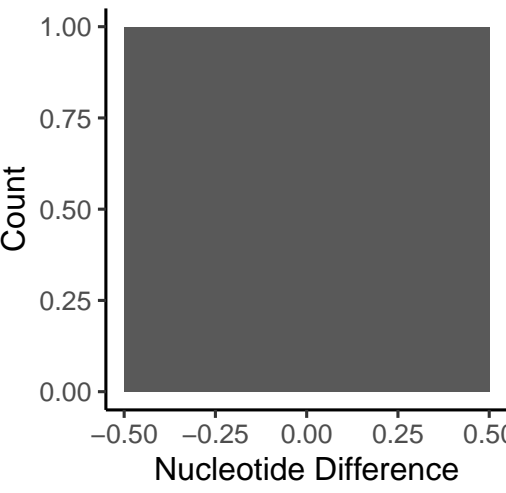
IGHV3-33*06

198 sequences assigned
101 (51%) exact matches, in which:
51 unique CDR3
4 unique J



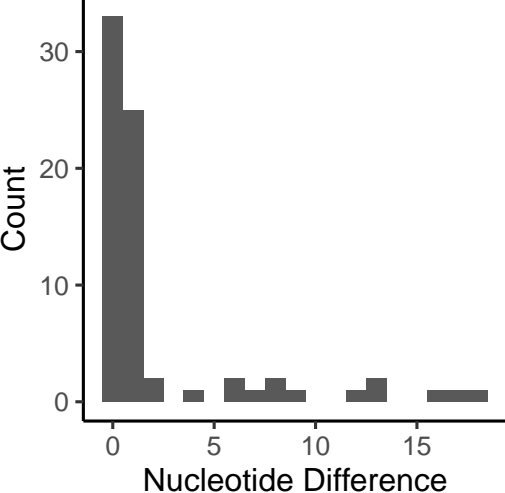
IGHV3-47*01

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



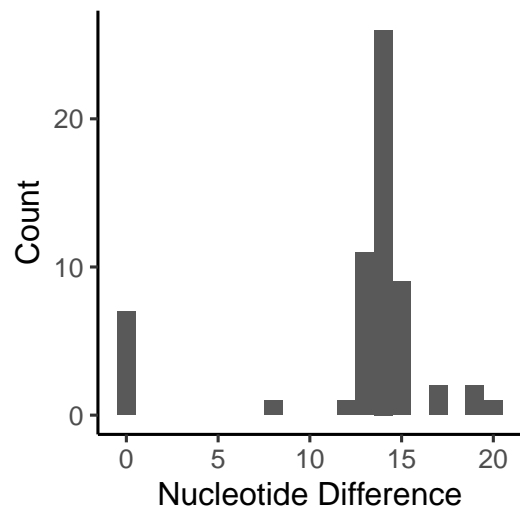
IGHV3-49*04

74 sequences assigned
33 (44.6%) exact matches, in which:
19 unique CDR3
4 unique J



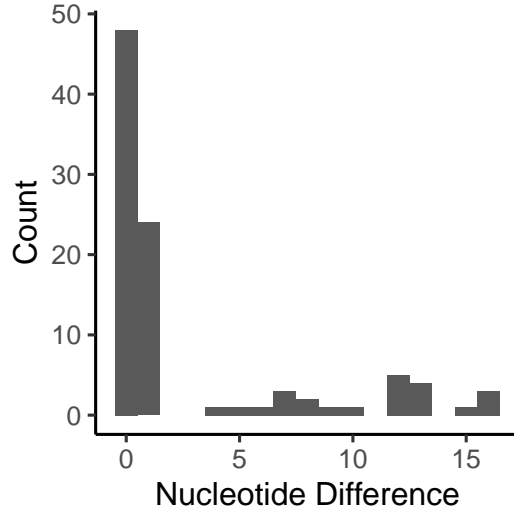
IGHV3-49*03_05

61 sequences assigned
7 (11.5%) exact matches, in which:
6 unique CDR3
2 unique J



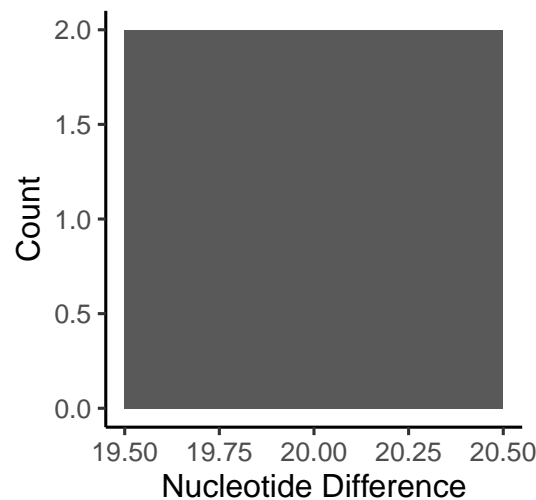
IGHV3-66*01

114 sequences assigned
48 (42.1%) exact matches, in which:
23 unique CDR3
6 unique J



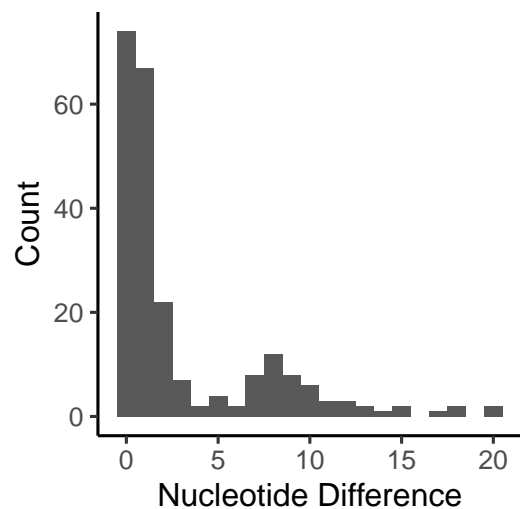
IGHV3-69-1*02

2 sequences assigned
No exact matches.



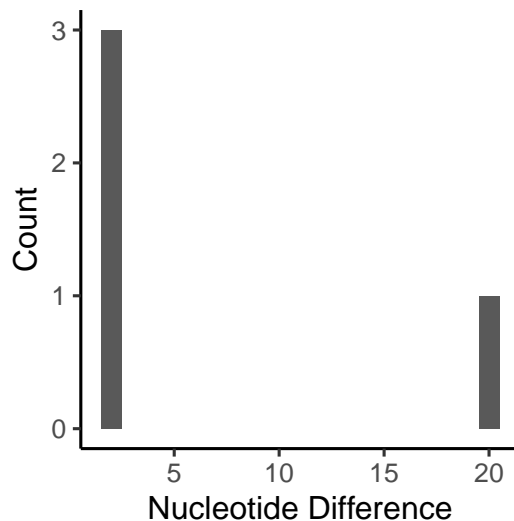
IGHV3-53*01_02

266 sequences assigned
74 (27.8%) exact matches, in which:
42 unique CDR3
7 unique J



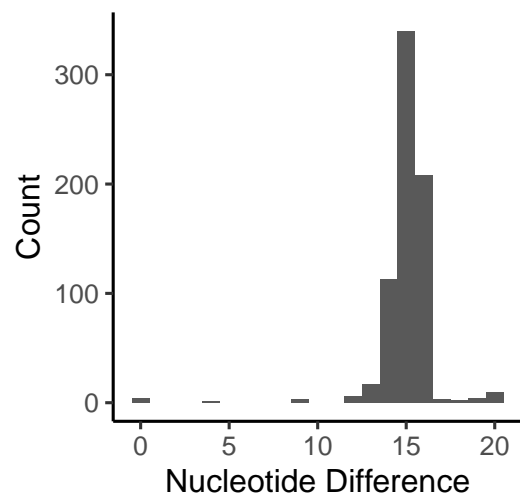
IGHV3-66*03

4 sequences assigned
No exact matches.



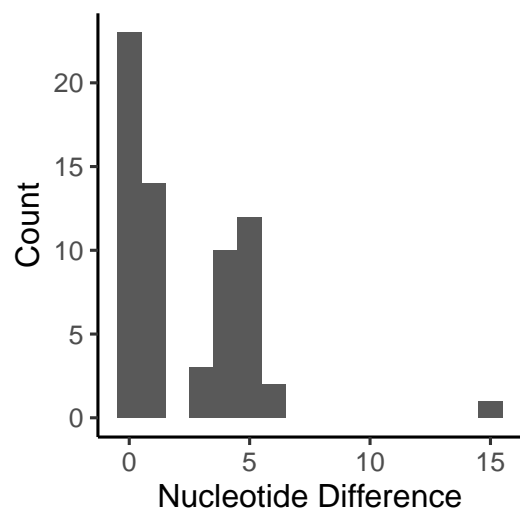
IGHV3-72*01

750 sequences assigned
4 (0.5%) exact matches, in which:
4 unique CDR3
2 unique J



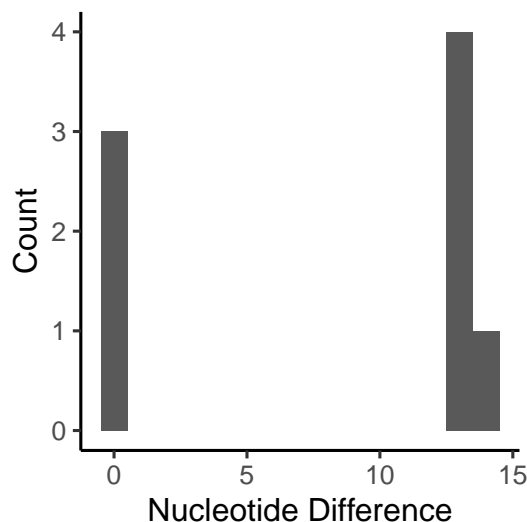
IGHV3-64*01

66 sequences assigned
23 (34.8%) exact matches, in which:
13 unique CDR3
4 unique J



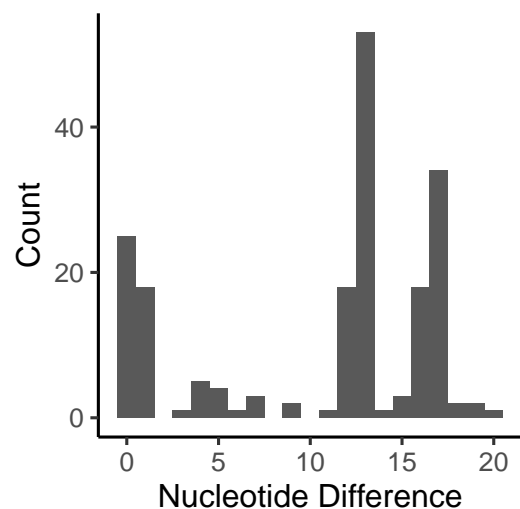
IGHV3-66*04

9 sequences assigned
3 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



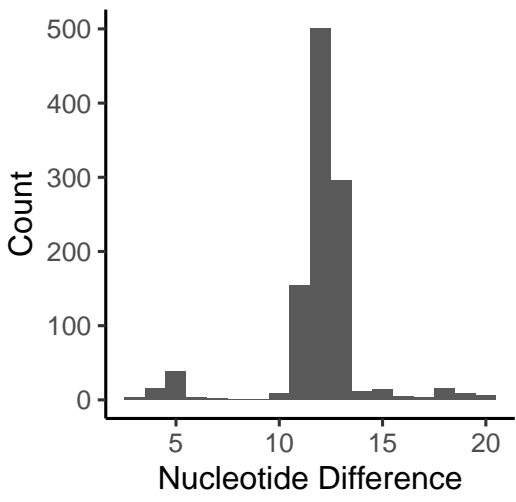
IGHV3-73*01_02

263 sequences assigned
25 (9.5%) exact matches, in which:
14 unique CDR3
4 unique J



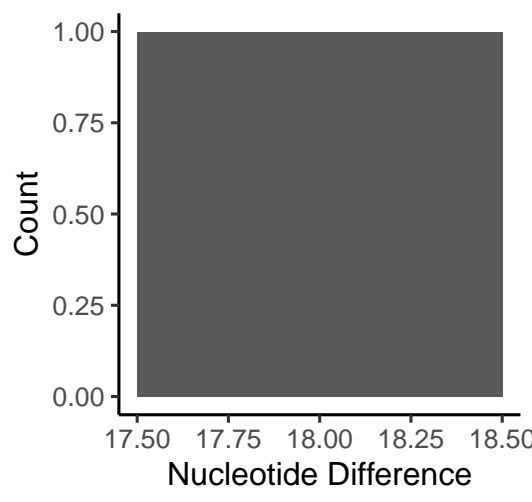
IGHV3-74*03

1112 sequences assigned
No exact matches.



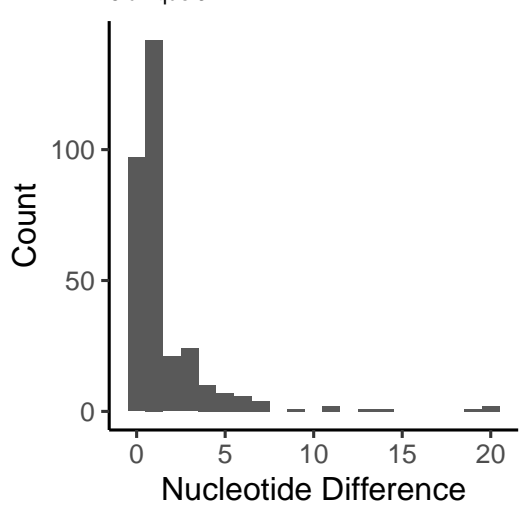
IGHV3-NL1*01

4 sequences assigned
No exact matches.



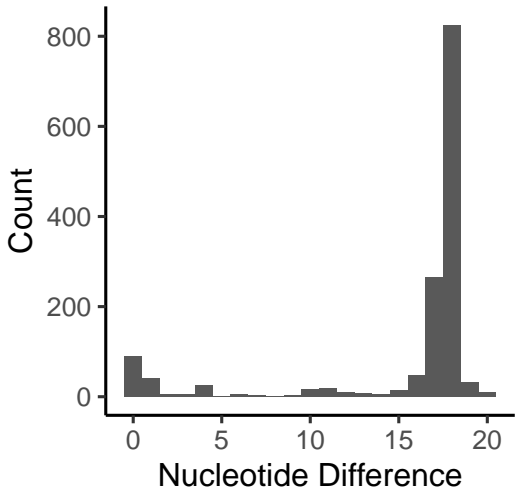
IGHV4-31*02

937 sequences assigned
97 (10.4%) exact matches, in which:
66 unique CDR3
6 unique J



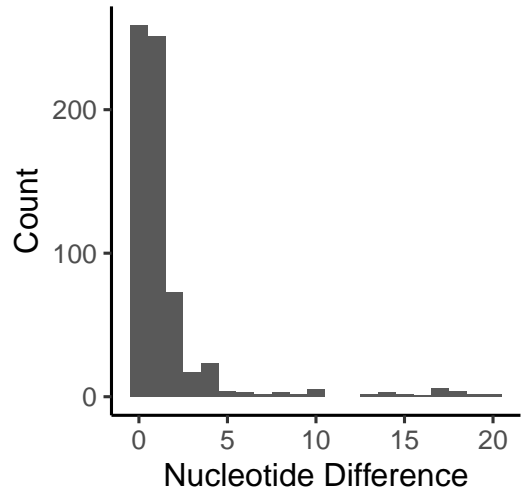
IGHV3-74*01_02

1695 sequences assigned
90 (5.3%) exact matches, in which:
55 unique CDR3
6 unique J



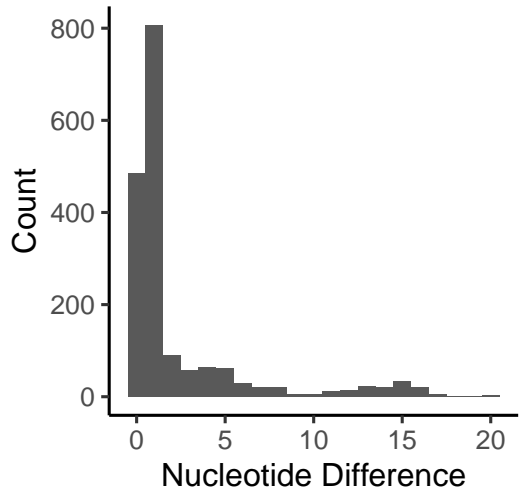
IGHV4-4*07

1722 sequences assigned
259 (15%) exact matches, in which:
196 unique CDR3
7 unique J



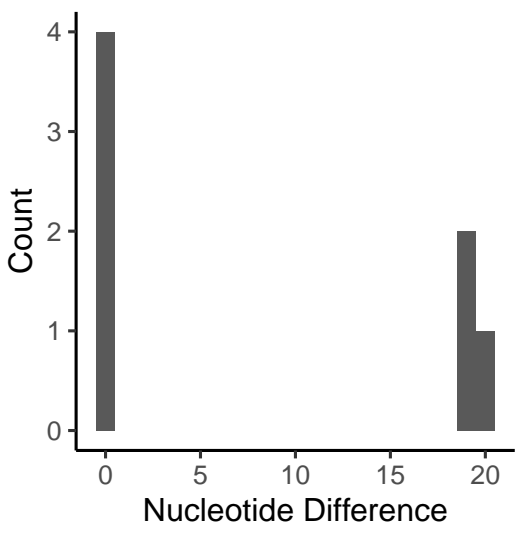
IGHV4-34*01_02

2205 sequences assigned
486 (22%) exact matches, in which:
293 unique CDR3
6 unique J



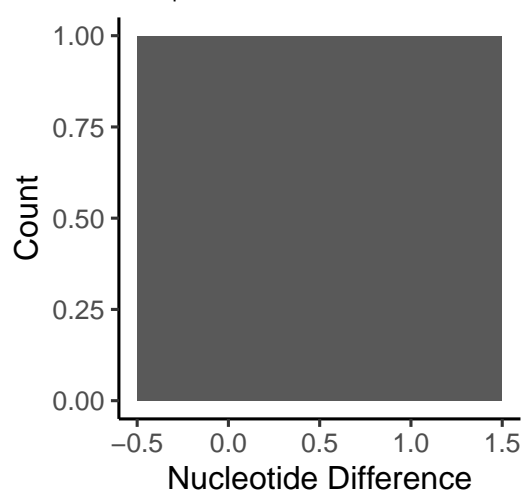
IGHV3-43D*03

45 sequences assigned
4 (8.9%) exact matches, in which:
3 unique CDR3
2 unique J



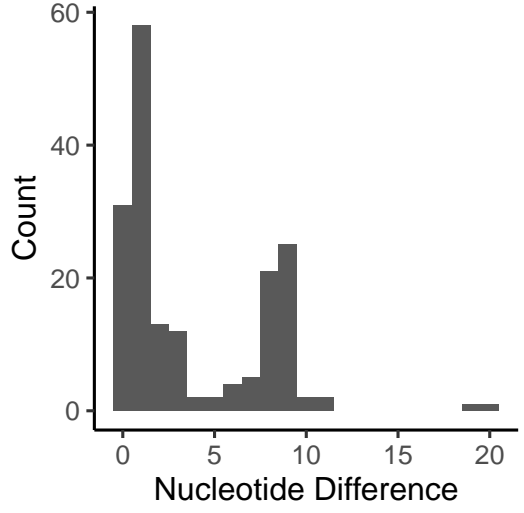
IGHV4-28*03

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



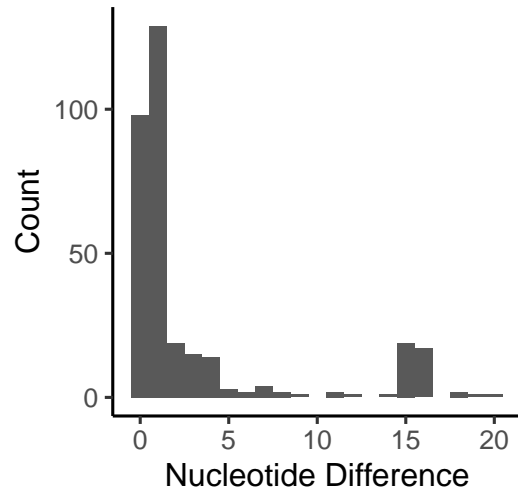
IGHV4-34*01_02_G291A

184 sequences assigned
31 (16.8%) exact matches, in which:
28 unique CDR3
6 unique J



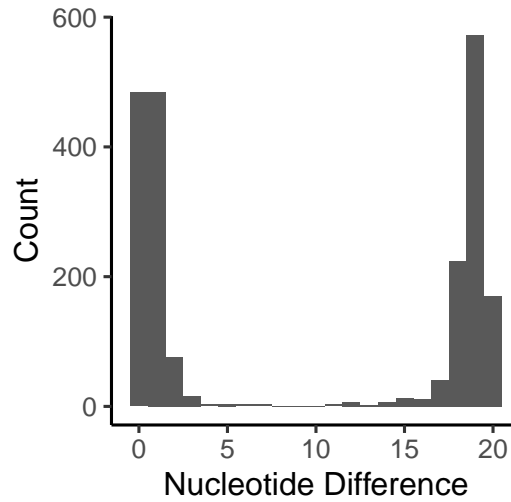
IGHV4-38-2*02

334 sequences assigned
98 (29.3%) exact matches, in which:
68 unique CDR3
6 unique J



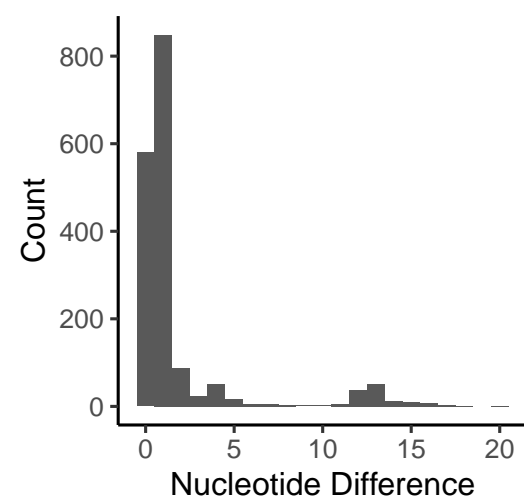
IGHV4-39*02_C258G

3637 sequences assigned
484 (13.3%) exact matches, in which:
340 unique CDR3
7 unique J



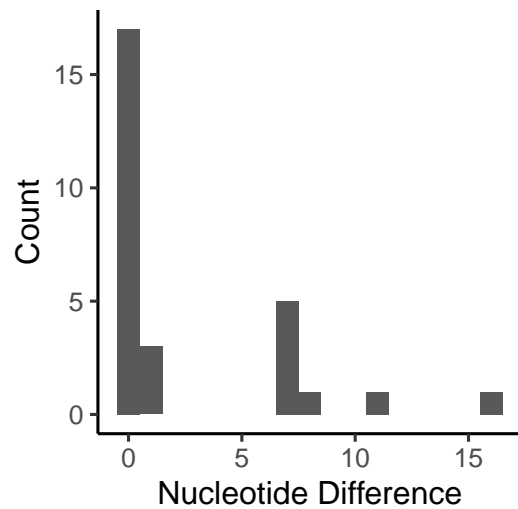
IGHV4-59*12_C288T

1818 sequences assigned
580 (31.9%) exact matches, in which:
379 unique CDR3
6 unique J



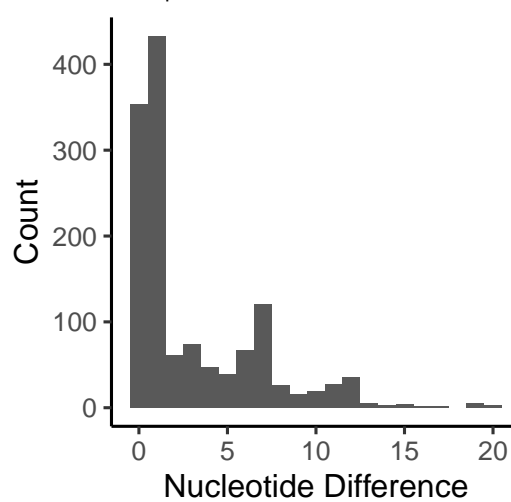
IGHV4-38-2*02_C288T_1

28 sequences assigned
17 (60.7%) exact matches, in which:
17 unique CDR3
5 unique J



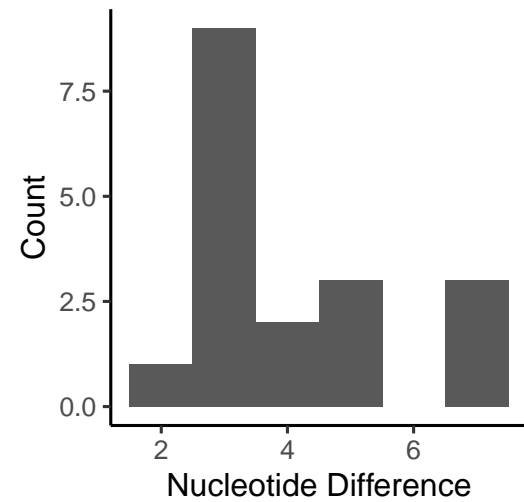
IGHV4-59*08

1432 sequences assigned
353 (24.7%) exact matches, in which:
246 unique CDR3
7 unique J



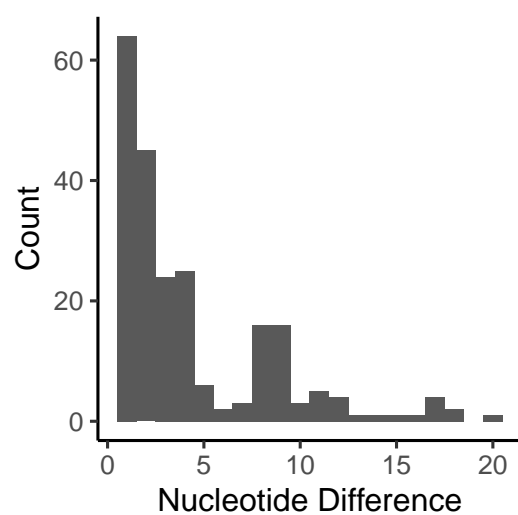
IGHV4-61*02

30 sequences assigned
No exact matches.



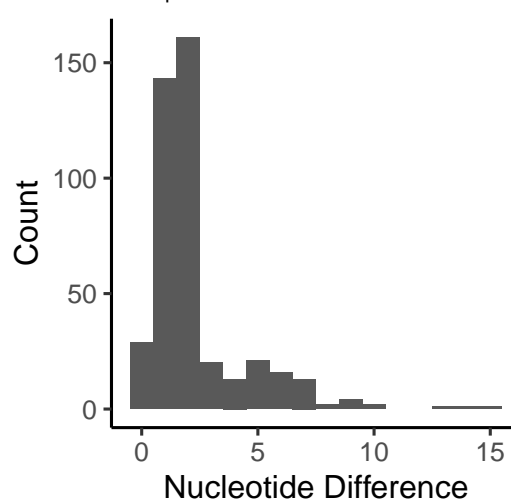
IGHV4-39*07

239 sequences assigned
No exact matches.



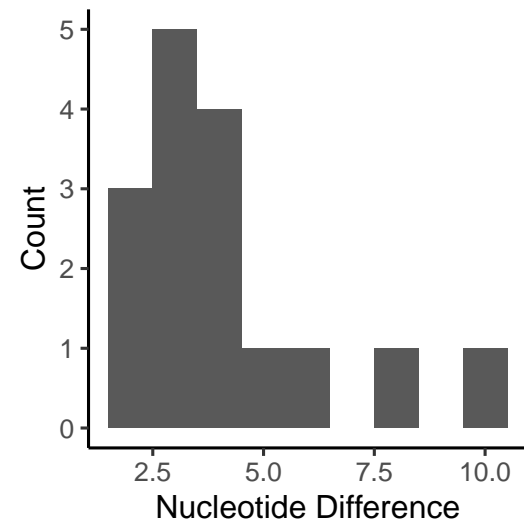
IGHV4-59*12

434 sequences assigned
29 (6.7%) exact matches, in which:
29 unique CDR3
5 unique J



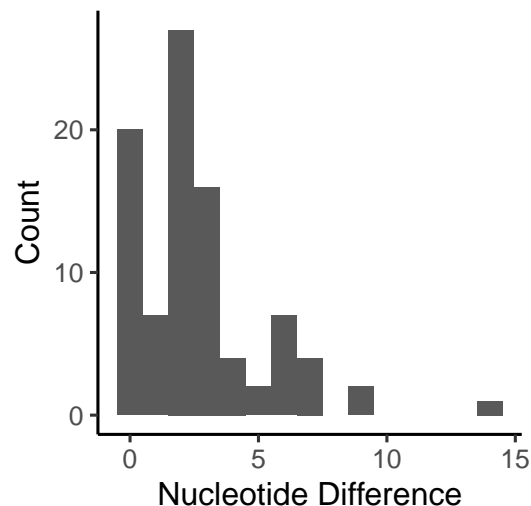
IGHV4-61*05

17 sequences assigned
No exact matches.



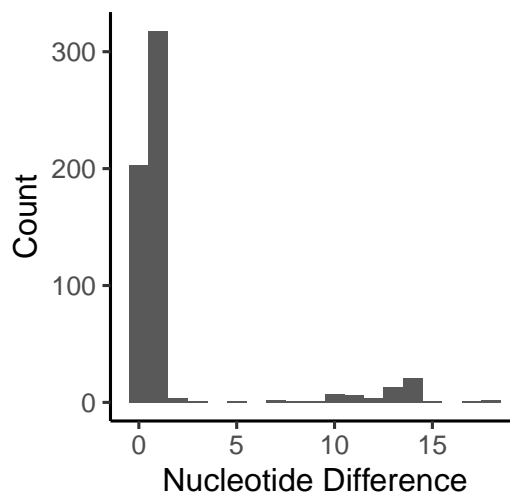
IGHV4-61*01_G88A_G10

91 sequences assigned
20 (22%) exact matches, in which:
20 unique CDR3
5 unique J



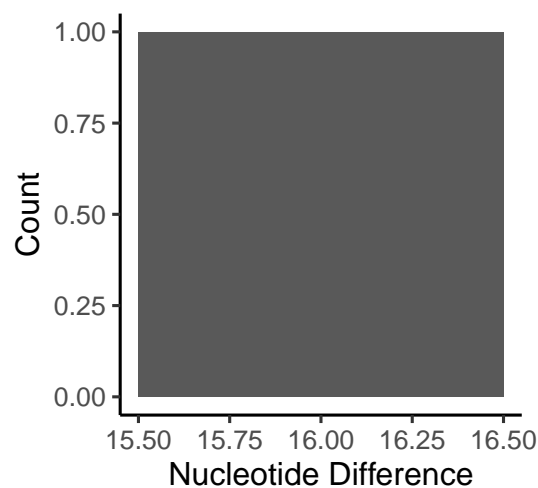
IGHV5-51*01_03

594 sequences assigned
203 (34.2%) exact matches, in which:
93 unique CDR3
6 unique J



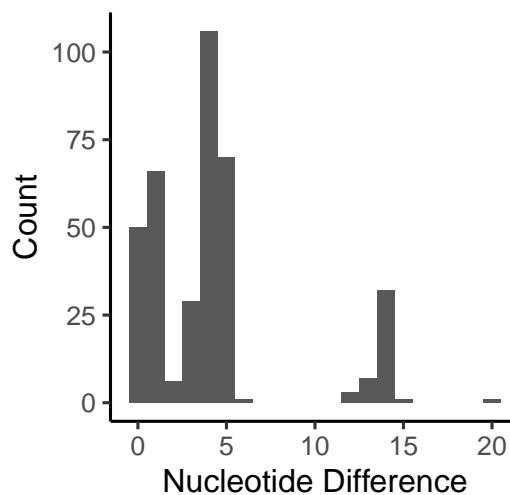
IGHV5-10-1*01_03

1 sequences assigned
No exact matches.



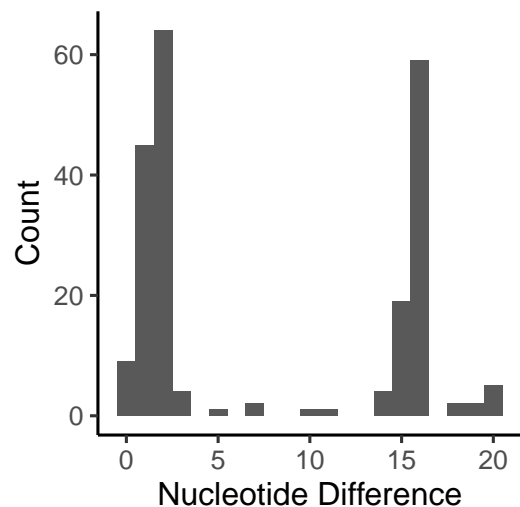
IGHV6-1*01_02

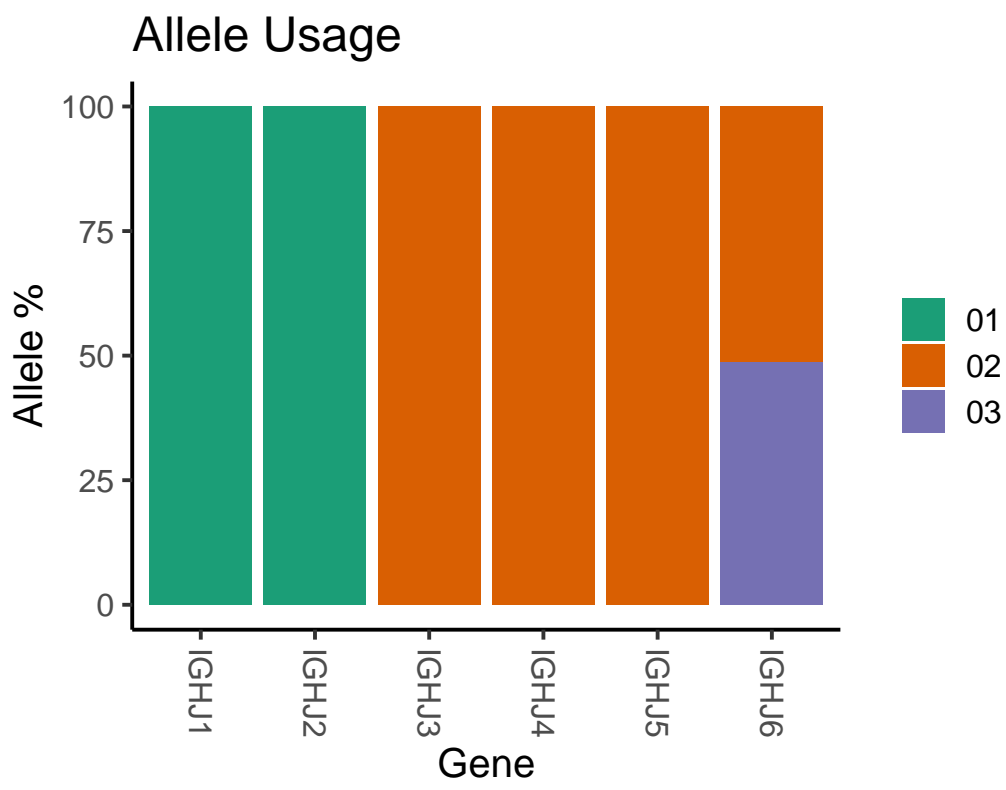
373 sequences assigned
50 (13.4%) exact matches, in which:
42 unique CDR3
5 unique J



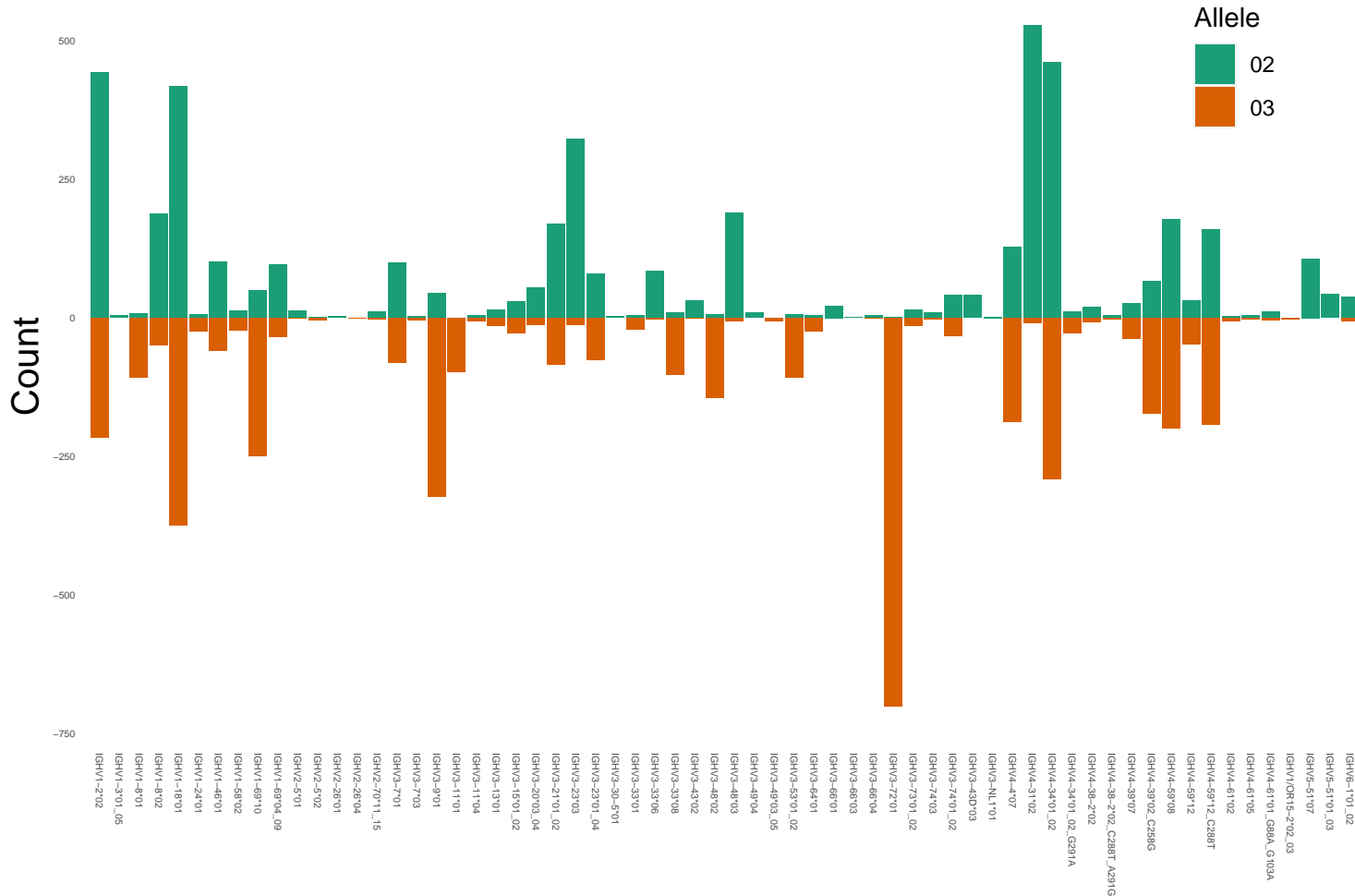
IGHV5-51*07

223 sequences assigned
9 (4%) exact matches, in which:
7 unique CDR3
3 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.