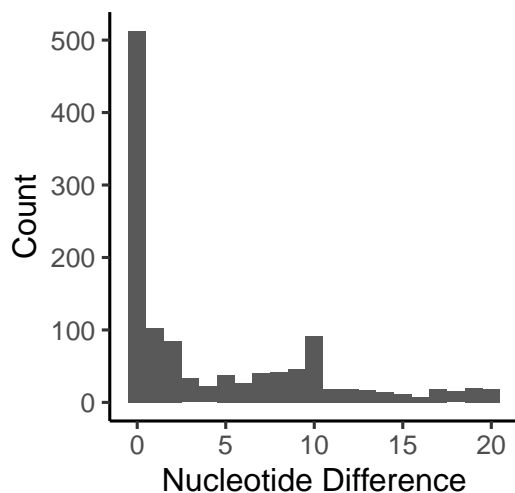


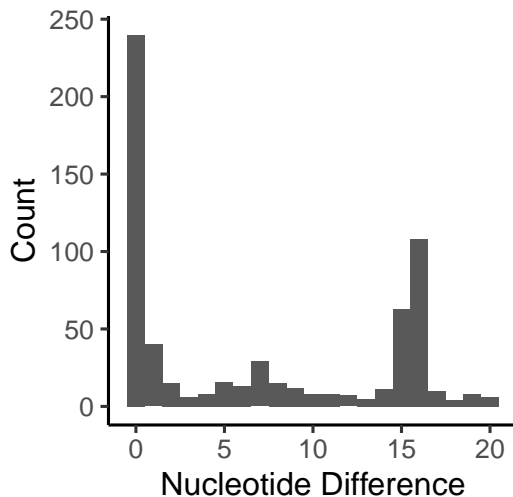
IGHV1-2*02

1739 sequences assigned
513 (29.5%) exact matches, in which:
491 unique CDR3
6 unique J



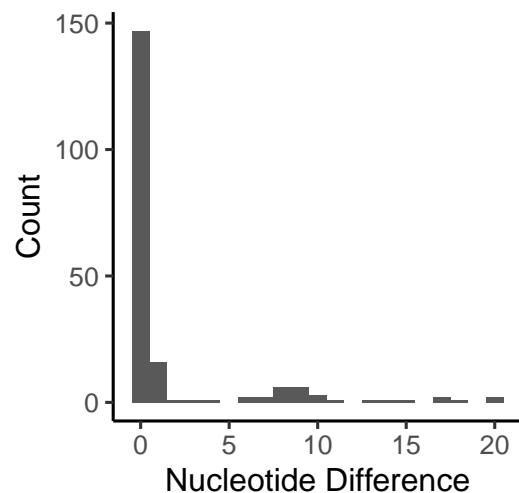
IGHV1-8*01

710 sequences assigned
240 (33.8%) exact matches, in which:
234 unique CDR3
6 unique J



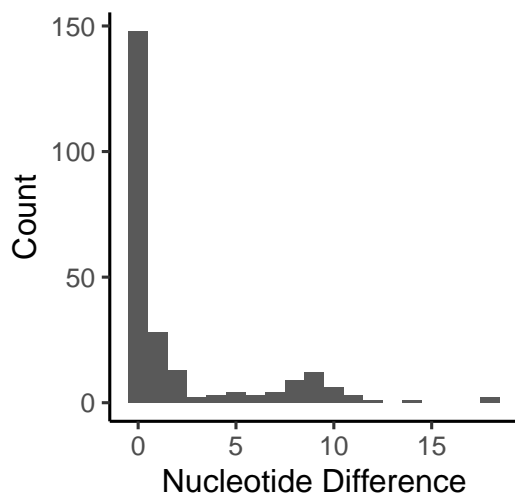
IGHV1-24*01

205 sequences assigned
147 (71.7%) exact matches, in which:
141 unique CDR3
6 unique J



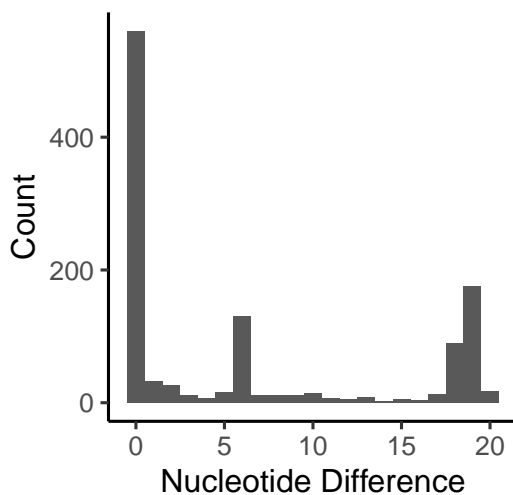
IGHV1-2*04

239 sequences assigned
148 (61.9%) exact matches, in which:
141 unique CDR3
6 unique J



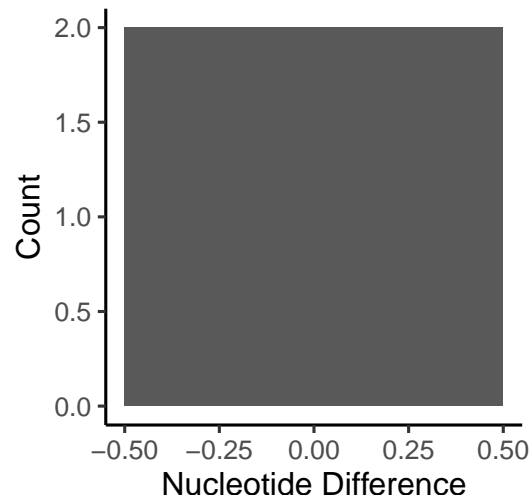
IGHV1-18*01

1382 sequences assigned
560 (40.5%) exact matches, in which:
551 unique CDR3
6 unique J



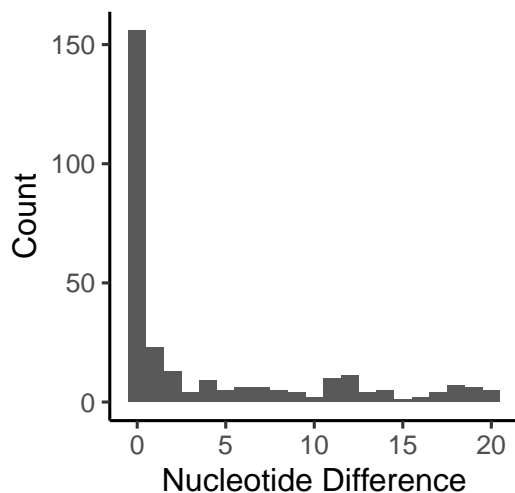
IGHV1-45*03

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



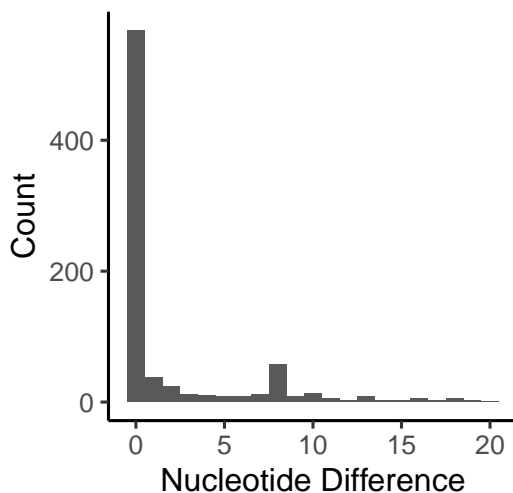
IGHV1-3*01_05

340 sequences assigned
156 (45.9%) exact matches, in which:
146 unique CDR3
6 unique J



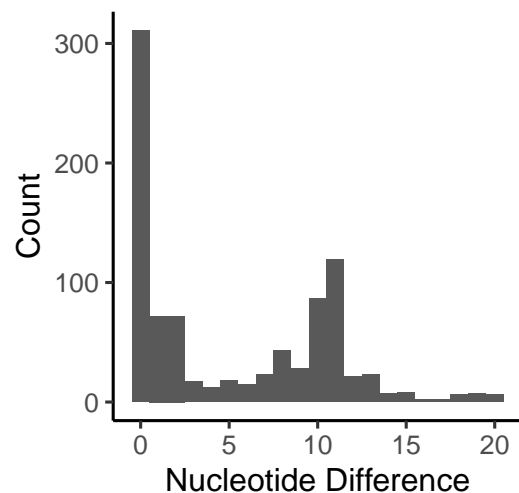
IGHV1-18*04

825 sequences assigned
568 (68.8%) exact matches, in which:
552 unique CDR3
6 unique J



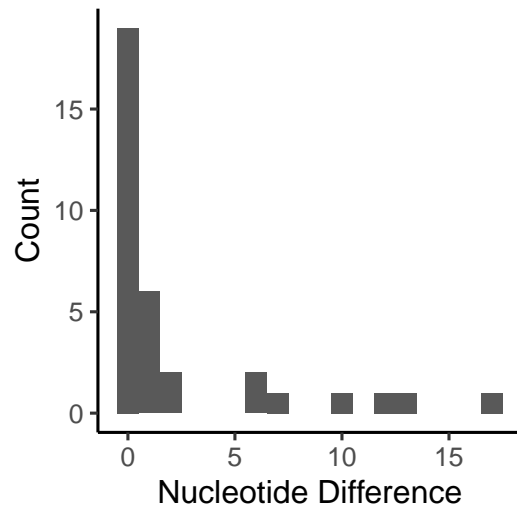
IGHV1-46*01

945 sequences assigned
311 (32.9%) exact matches, in which:
302 unique CDR3
6 unique J



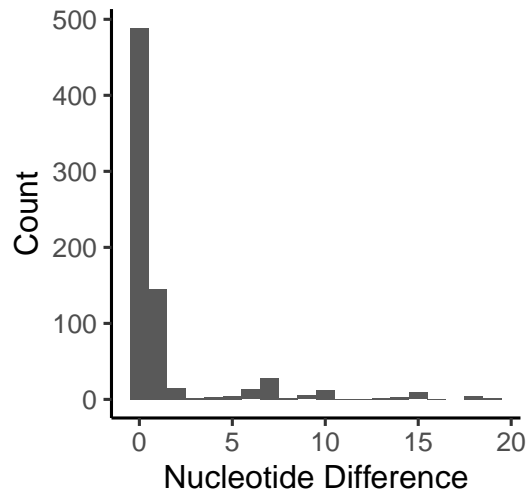
IGHV1-58*02

34 sequences assigned
19 (55.9%) exact matches, in which:
19 unique CDR3
6 unique J



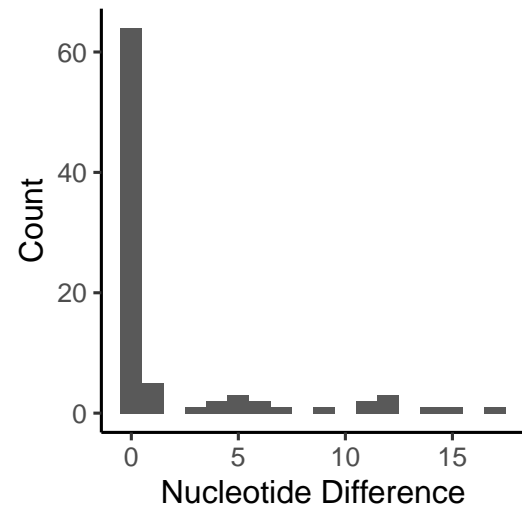
IGHV1-69*04_09

758 sequences assigned
489 (64.5%) exact matches, in which:
480 unique CDR3
6 unique J



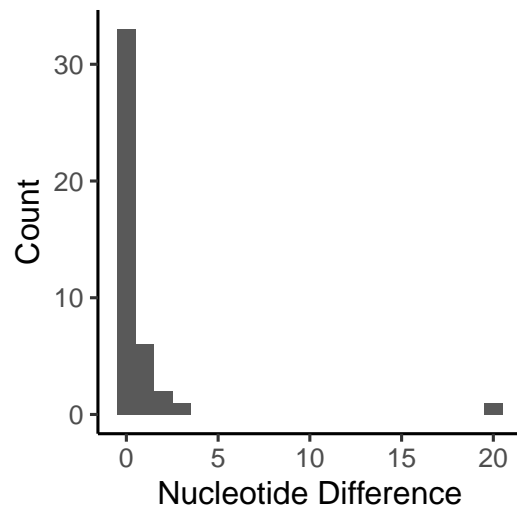
IGHV2-26*01

88 sequences assigned
64 (72.7%) exact matches, in which:
61 unique CDR3
5 unique J



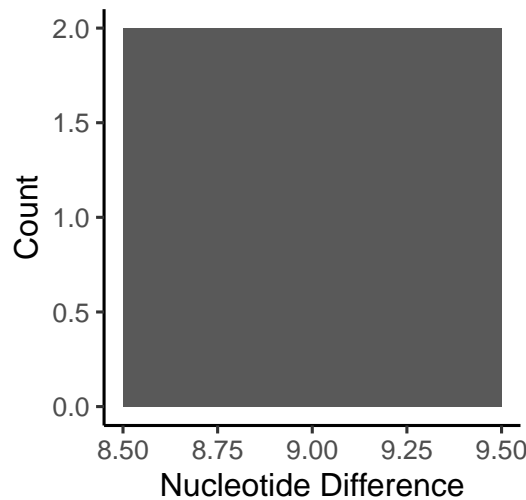
IGHV1-58*01_03

45 sequences assigned
33 (73.3%) exact matches, in which:
33 unique CDR3
5 unique J



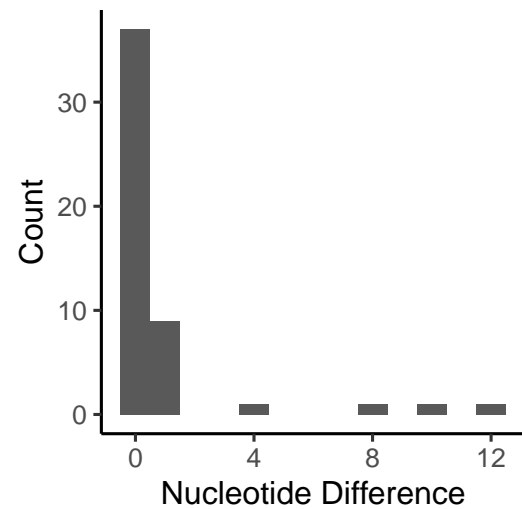
IGHV1-NL1*01

2 sequences assigned
No exact matches.



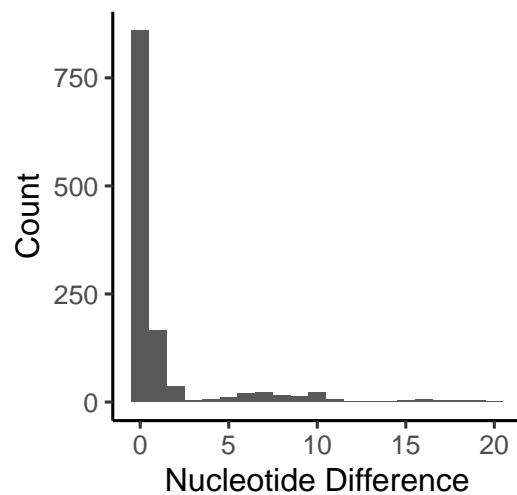
IGHV2-70*01

51 sequences assigned
37 (72.5%) exact matches, in which:
34 unique CDR3
5 unique J



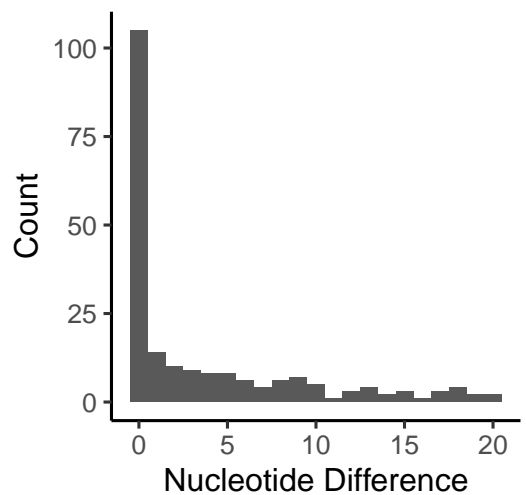
IGHV1-69*01_12_13

1272 sequences assigned
860 (67.6%) exact matches, in which:
835 unique CDR3
6 unique J



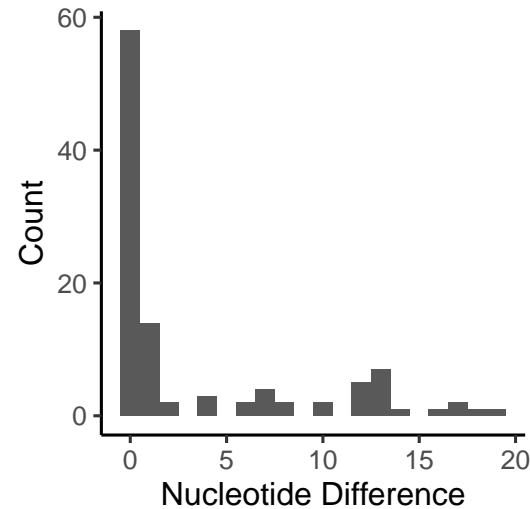
IGHV2-5*02

218 sequences assigned
105 (48.2%) exact matches, in which:
104 unique CDR3
6 unique J



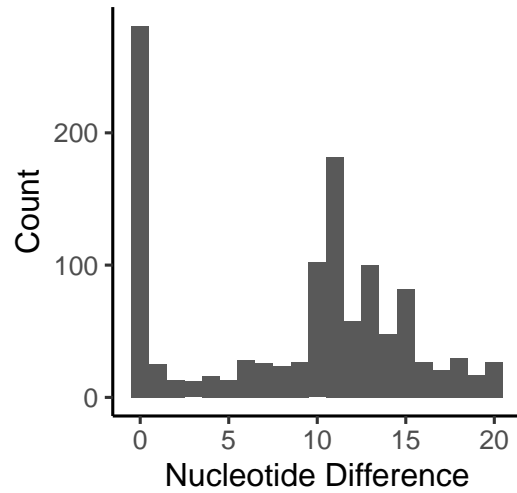
IGHV2-70*11_15

107 sequences assigned
58 (54.2%) exact matches, in which:
52 unique CDR3
4 unique J



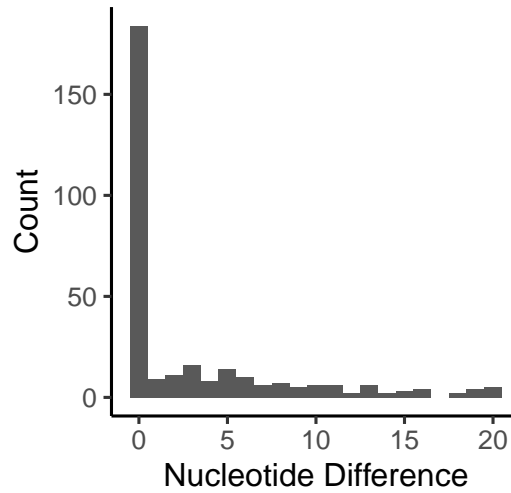
IGHV3-7*01

1274 sequences assigned
281 (22.1%) exact matches, in which:
167 unique CDR3
6 unique J



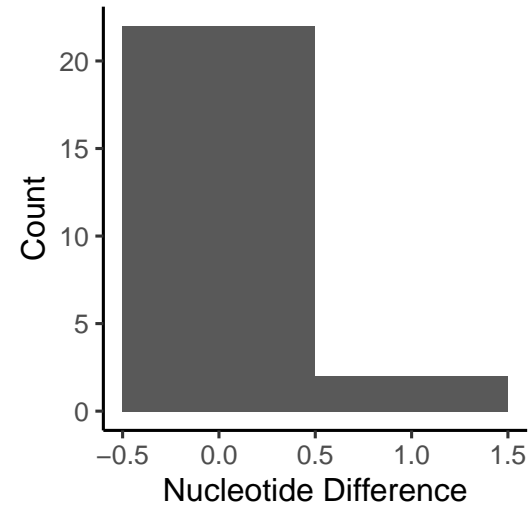
IGHV3-11*01

374 sequences assigned
184 (49.2%) exact matches, in which:
116 unique CDR3
6 unique J



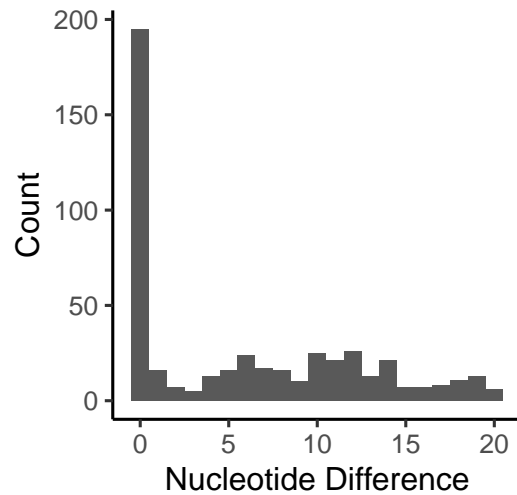
IGHV3-13*05

24 sequences assigned
22 (91.7%) exact matches, in which:
12 unique CDR3
5 unique J



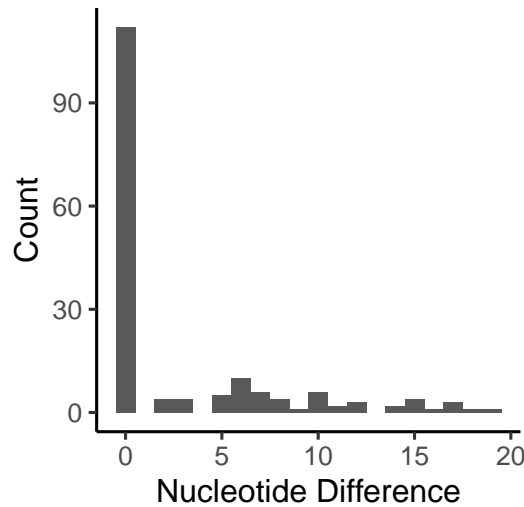
IGHV3-7*03

588 sequences assigned
195 (33.2%) exact matches, in which:
116 unique CDR3
6 unique J



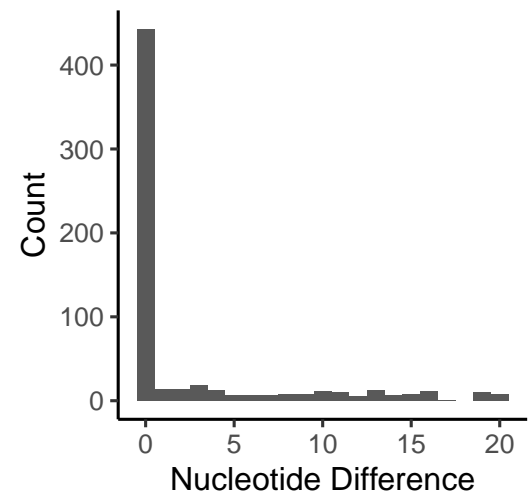
IGHV3-11*06

174 sequences assigned
112 (64.4%) exact matches, in which:
61 unique CDR3
6 unique J



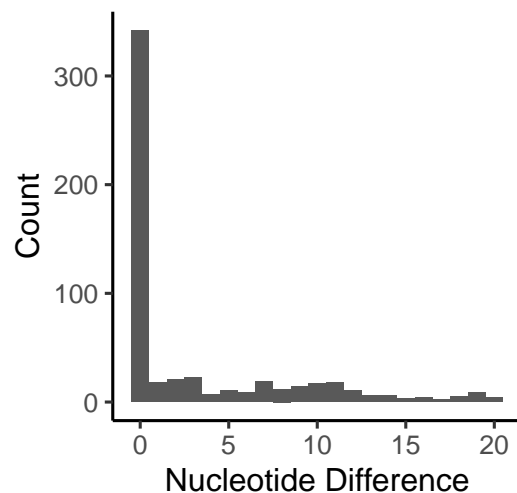
IGHV3-15*01_02

914 sequences assigned
443 (48.5%) exact matches, in which:
275 unique CDR3
6 unique J



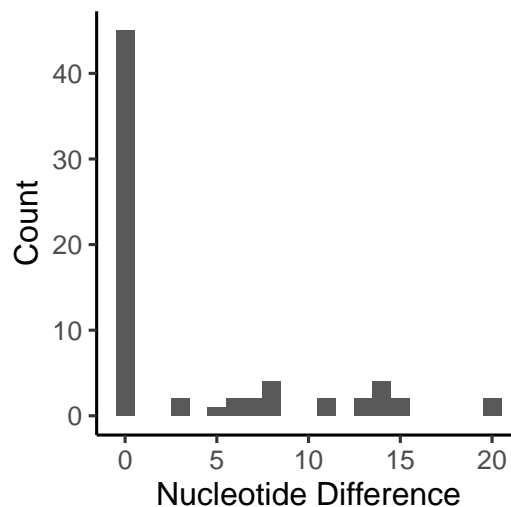
IGHV3-9*01

584 sequences assigned
342 (58.6%) exact matches, in which:
201 unique CDR3
6 unique J



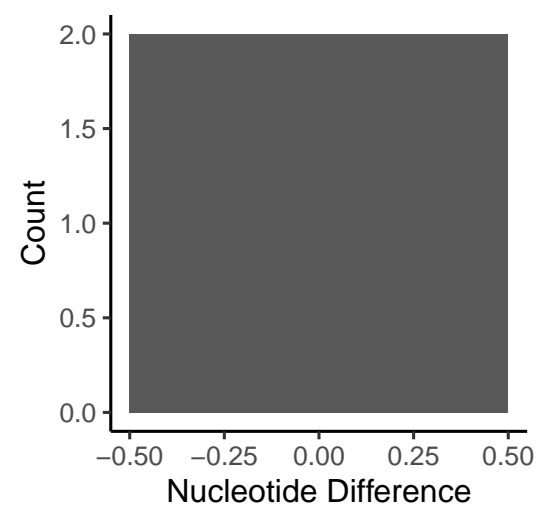
IGHV3-13*01

69 sequences assigned
45 (65.2%) exact matches, in which:
24 unique CDR3
5 unique J



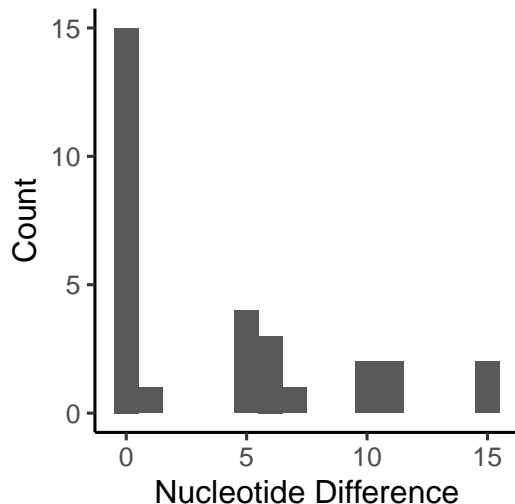
IGHV3-19*01

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



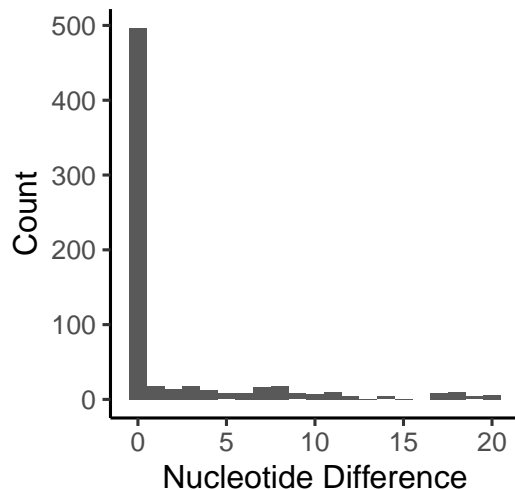
IGHV3-20*01_02

30 sequences assigned
15 (50%) exact matches, in which:
10 unique CDR3
3 unique J



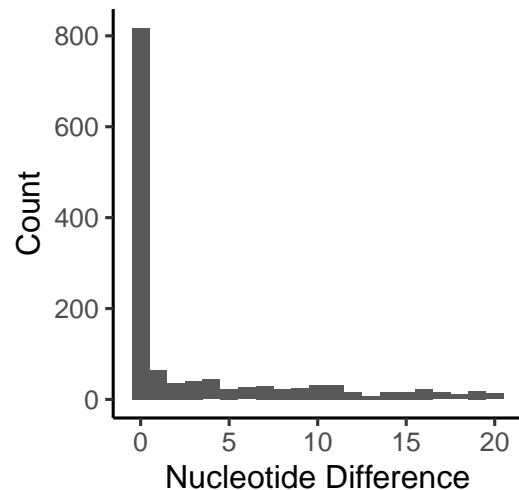
IGHV3-30-3*01

700 sequences assigned
497 (71%) exact matches, in which:
309 unique CDR3
6 unique J



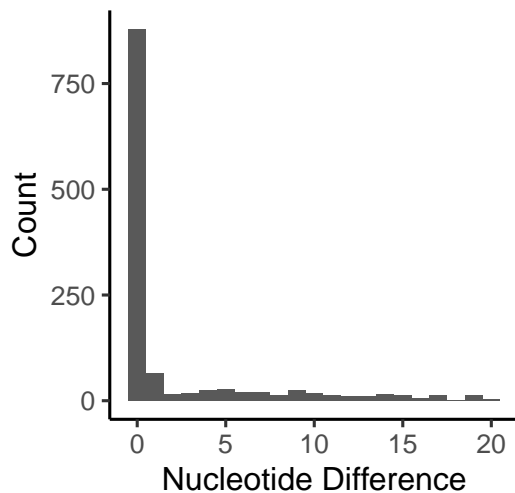
IGHV3-48*03

2120 sequences assigned
818 (38.6%) exact matches, in which:
501 unique CDR3
6 unique J



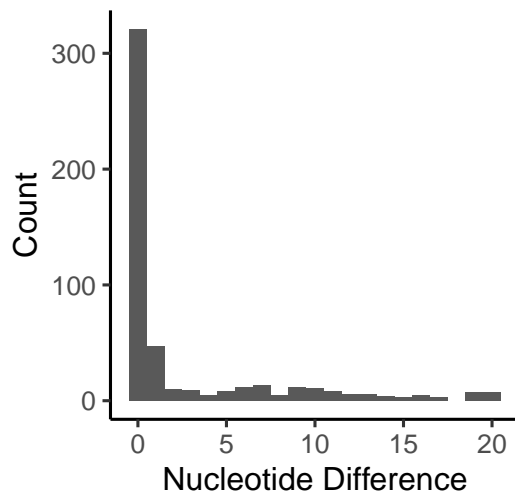
IGHV3-21*01_02

1275 sequences assigned
879 (68.9%) exact matches, in which:
518 unique CDR3
6 unique J



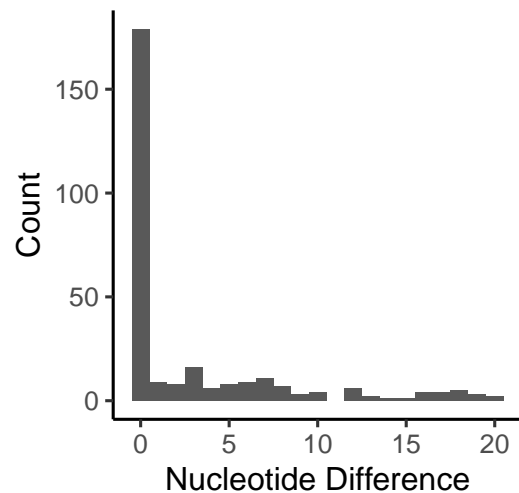
IGHV3-33*01

522 sequences assigned
321 (61.5%) exact matches, in which:
210 unique CDR3
5 unique J



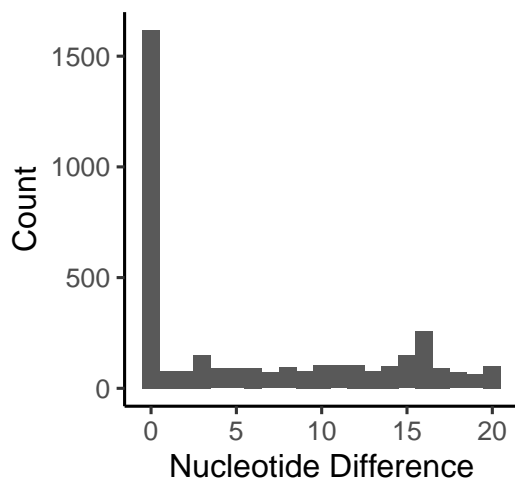
IGHV3-49*04

298 sequences assigned
179 (60.1%) exact matches, in which:
111 unique CDR3
5 unique J



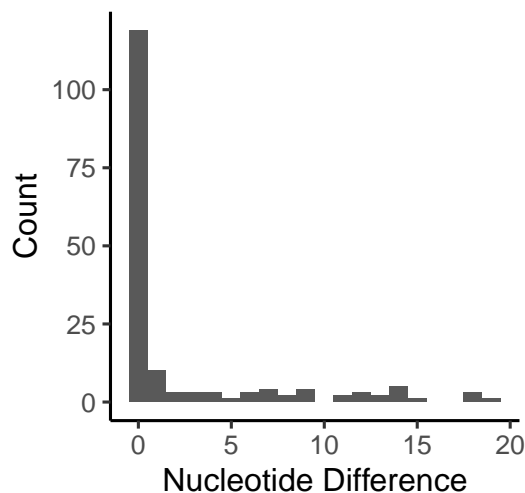
IGHV3-23*01_04

4632 sequences assigned
1618 (34.9%) exact matches, in which:
951 unique CDR3
6 unique J



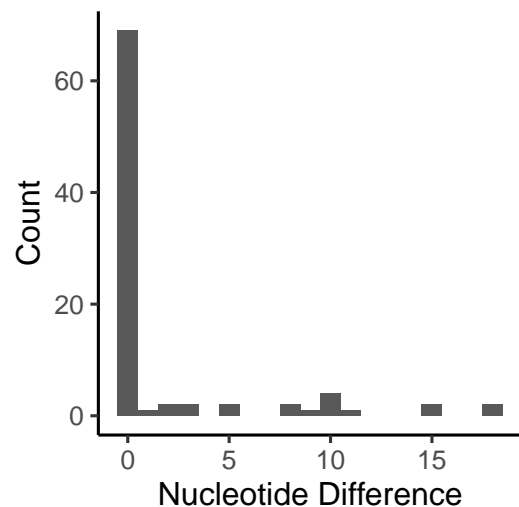
IGHV3-43*02

173 sequences assigned
119 (68.8%) exact matches, in which:
73 unique CDR3
6 unique J



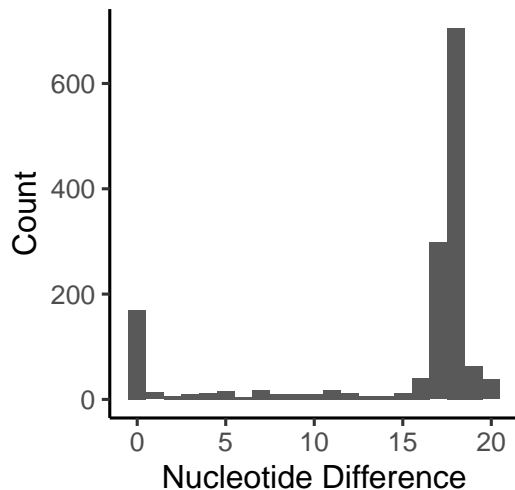
IGHV3-53*04

94 sequences assigned
69 (73.4%) exact matches, in which:
43 unique CDR3
6 unique J



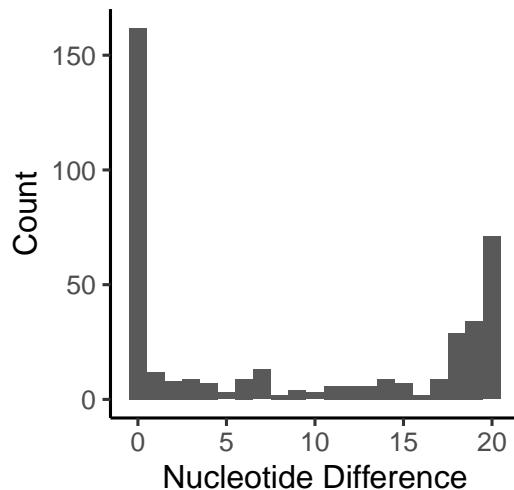
IGHV3–53*01_02

1621 sequences assigned
170 (10.5%) exact matches, in which:
103 unique CDR3
6 unique J



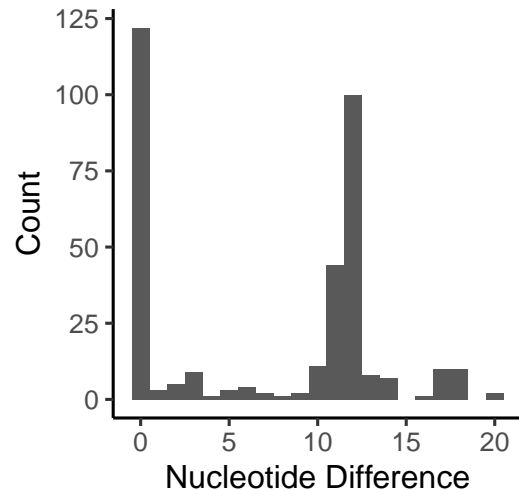
IGHV3–66*01

583 sequences assigned
162 (27.8%) exact matches, in which:
91 unique CDR3
5 unique J



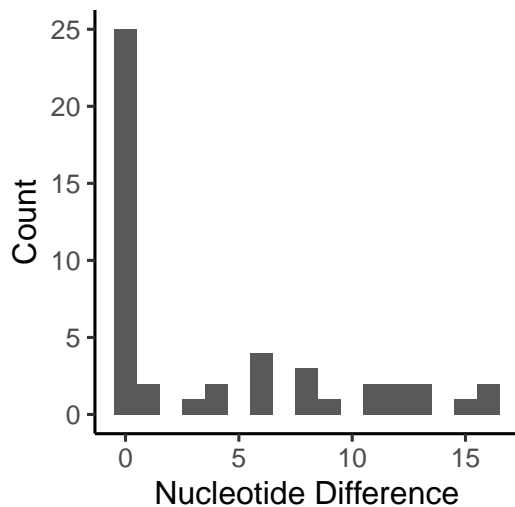
IGHV3–73*01_02

432 sequences assigned
122 (28.2%) exact matches, in which:
70 unique CDR3
6 unique J



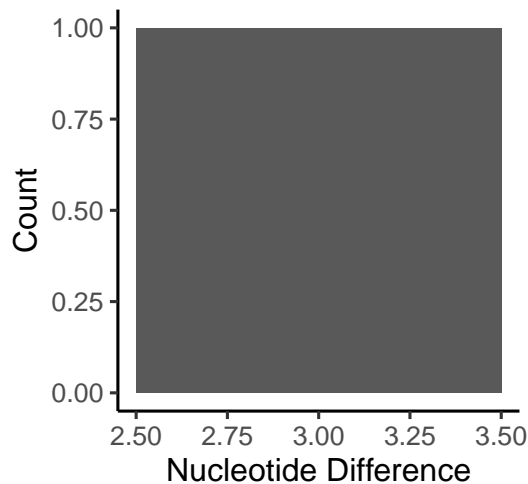
IGHV3–64*01

51 sequences assigned
25 (49%) exact matches, in which:
13 unique CDR3
3 unique J



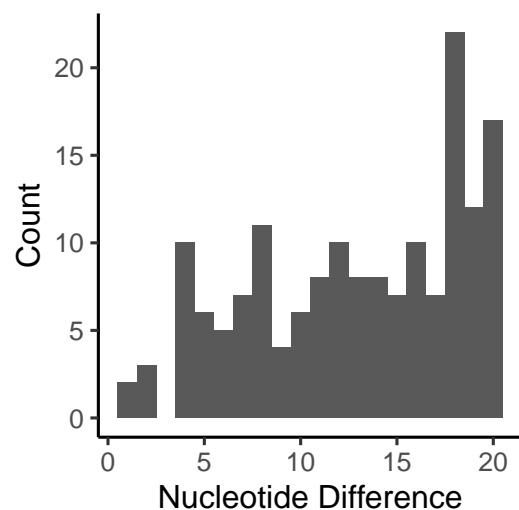
IGHV3–69–1*01

3 sequences assigned
No exact matches.



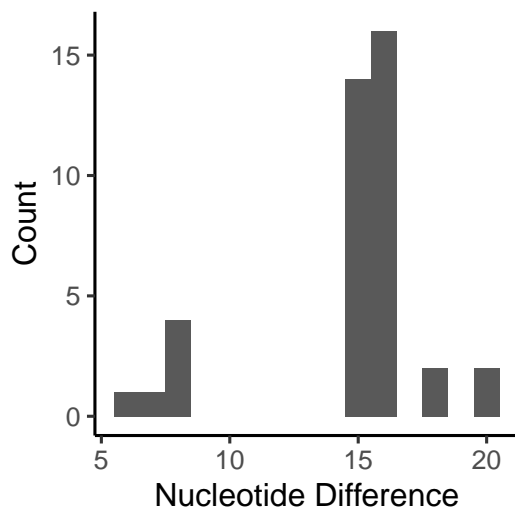
IGHV3–74*03

337 sequences assigned
No exact matches.



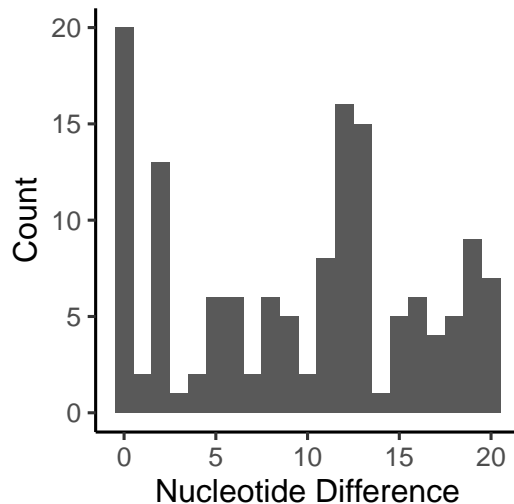
IGHV3–64*02_07

44 sequences assigned
No exact matches.



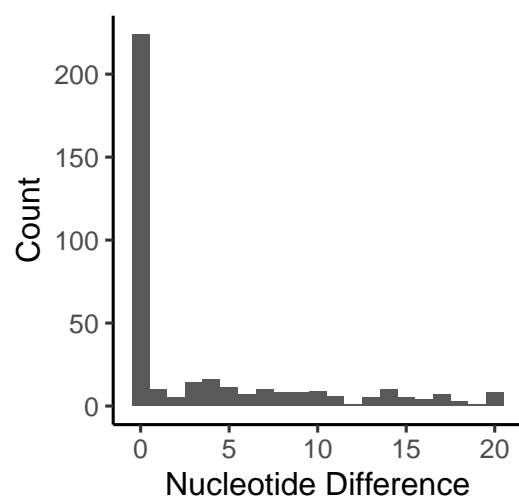
IGHV3–72*01

577 sequences assigned
20 (3.5%) exact matches, in which:
13 unique CDR3
3 unique J



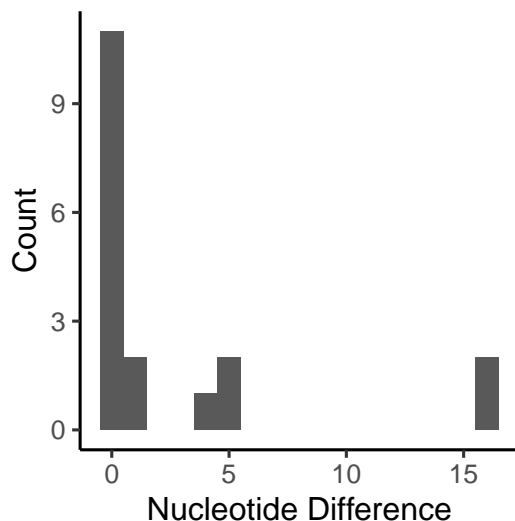
IGHV3–74*01_02

449 sequences assigned
224 (49.9%) exact matches, in which:
126 unique CDR3
6 unique J



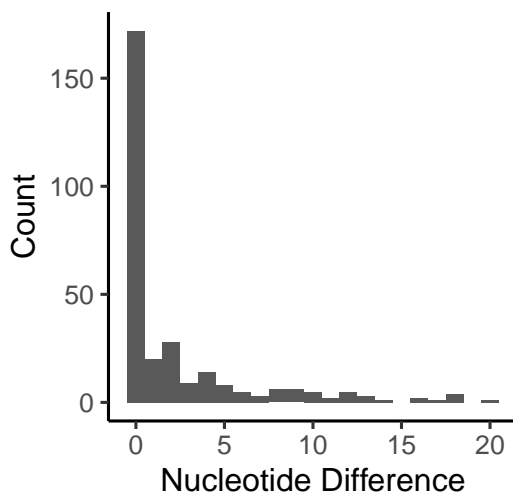
IGHV3-43D*04

18 sequences assigned
11 (61.1%) exact matches, in which:
8 unique CDR3
3 unique J



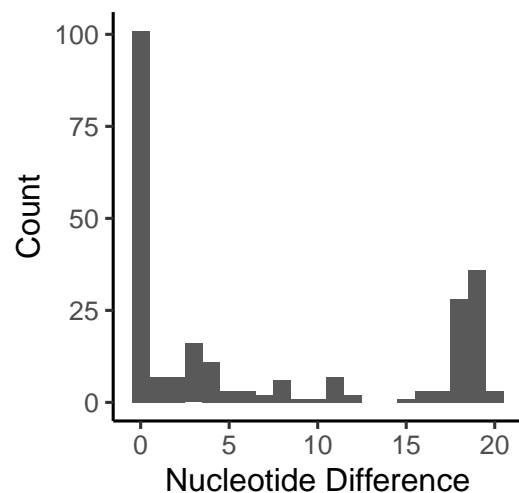
IGHV4-4*02_03

922 sequences assigned
172 (18.7%) exact matches, in which:
154 unique CDR3
6 unique J



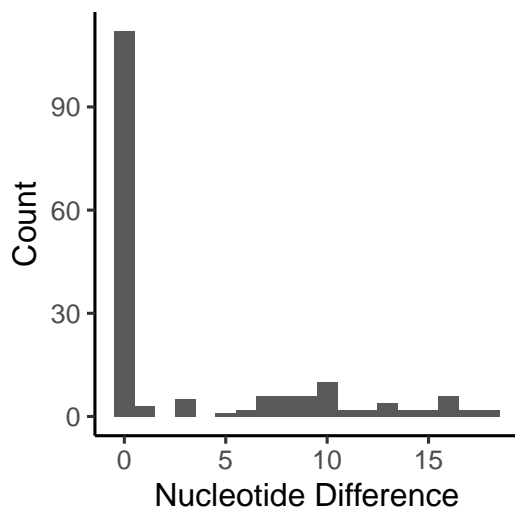
IGHV4-30-4*01

251 sequences assigned
101 (40.2%) exact matches, in which:
97 unique CDR3
5 unique J



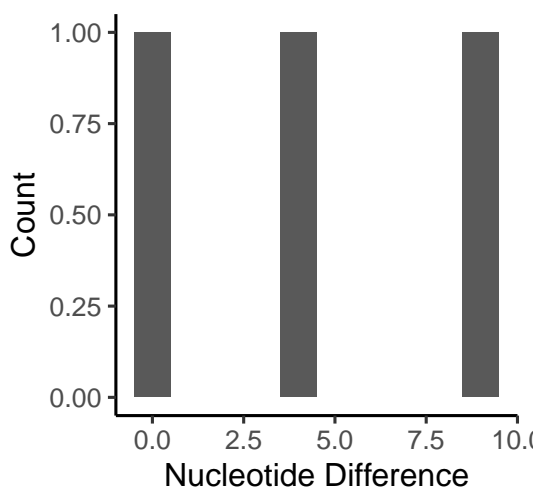
IGHV3-64D*06

223 sequences assigned
112 (50.2%) exact matches, in which:
55 unique CDR3
5 unique J



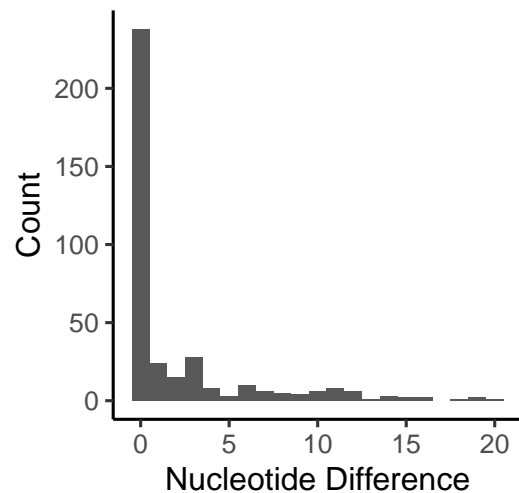
IGHV4-28*01_07

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



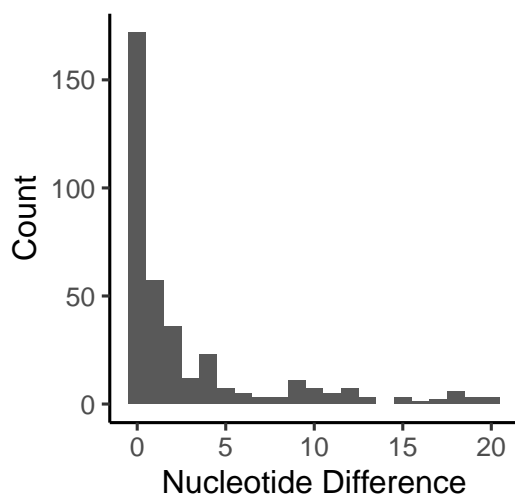
IGHV4-31*02

391 sequences assigned
238 (60.9%) exact matches, in which:
231 unique CDR3
6 unique J



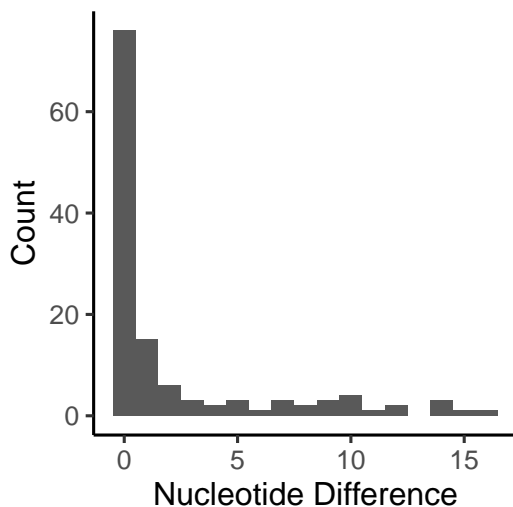
IGHV4-4*07

444 sequences assigned
172 (38.7%) exact matches, in which:
167 unique CDR3
6 unique J



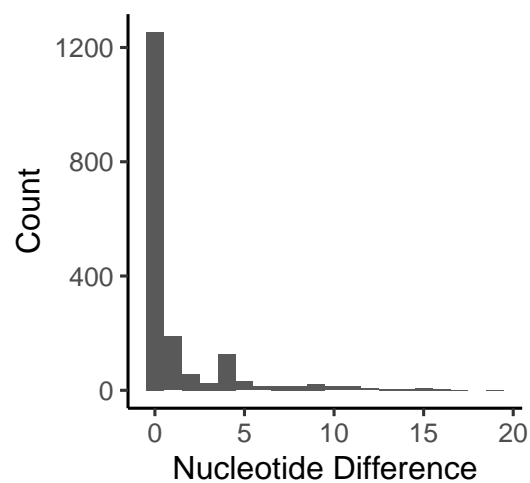
IGHV4-30-2*01

131 sequences assigned
76 (58%) exact matches, in which:
60 unique CDR3
6 unique J



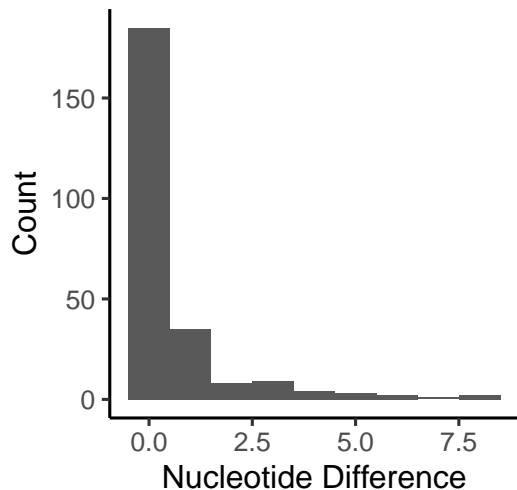
IGHV4-34*01_02

1923 sequences assigned
1254 (65.2%) exact matches, in which:
1090 unique CDR3
6 unique J



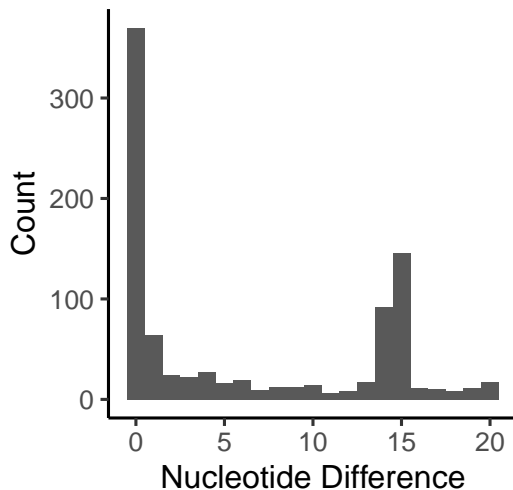
IGHV4-34*01_02_C288T

249 sequences assigned
185 (74.3%) exact matches, in which:
183 unique CDR3
6 unique J



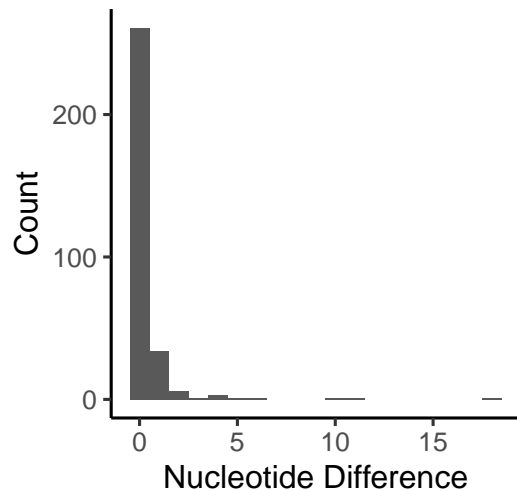
IGHV4-39*02_C258G

1162 sequences assigned
370 (31.8%) exact matches, in which:
330 unique CDR3
6 unique J



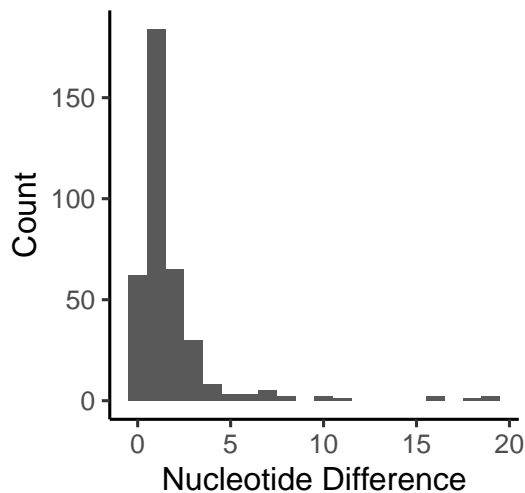
IGHV4-59*12_C300T

314 sequences assigned
261 (83.1%) exact matches, in which:
260 unique CDR3
6 unique J



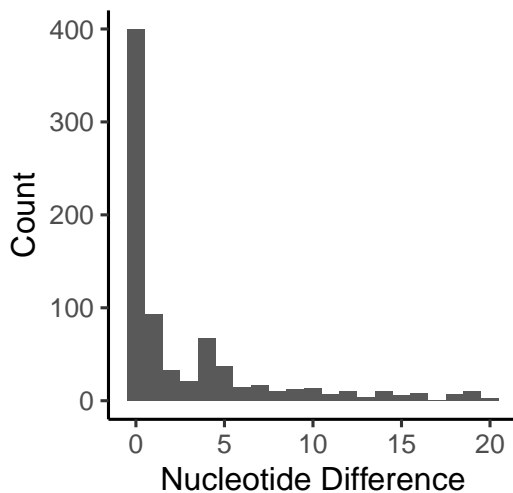
IGHV4-34*01_02_T300C

377 sequences assigned
62 (16.4%) exact matches, in which:
62 unique CDR3
6 unique J



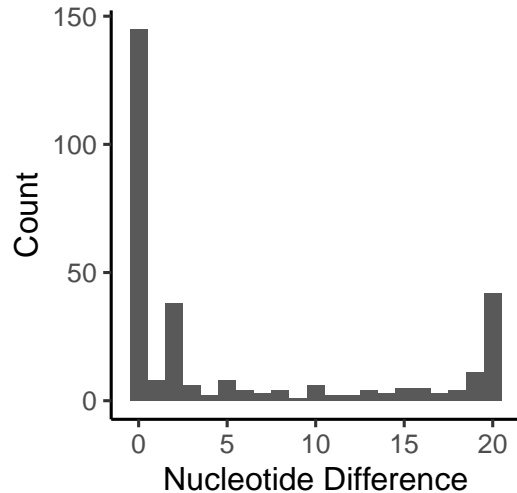
IGHV4-59*08

1675 sequences assigned
400 (23.9%) exact matches, in which:
386 unique CDR3
5 unique J



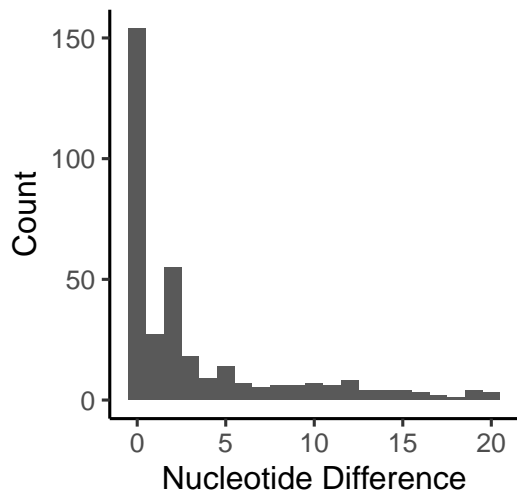
IGHV4-61*01

513 sequences assigned
145 (28.3%) exact matches, in which:
141 unique CDR3
6 unique J



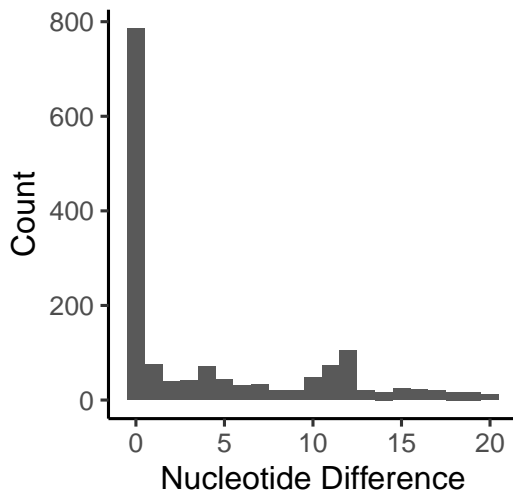
IGHV4-38-2*02_A70G

453 sequences assigned
154 (34%) exact matches, in which:
145 unique CDR3
6 unique J



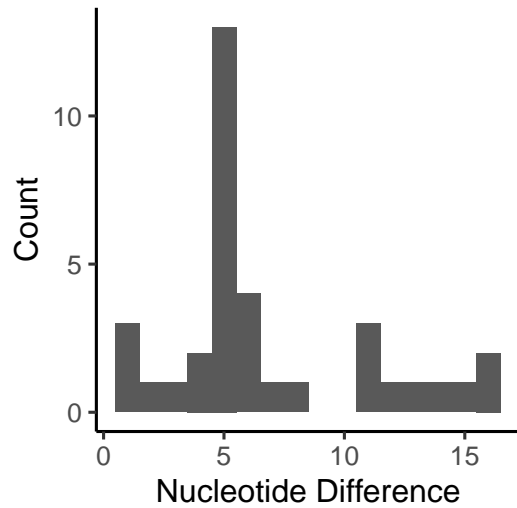
IGHV4-59*02_G88A

2569 sequences assigned
786 (30.6%) exact matches, in which:
763 unique CDR3
6 unique J



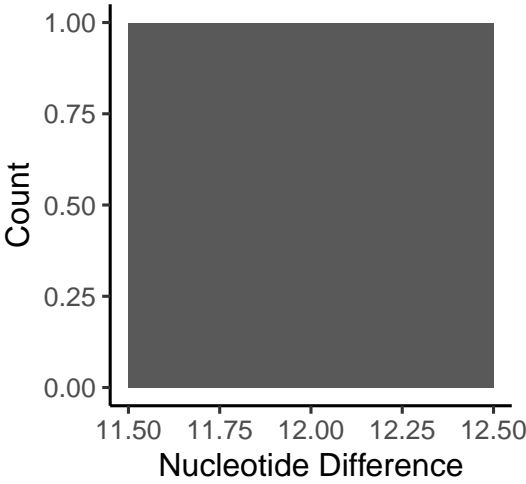
IGHV4-61*08

169 sequences assigned
No exact matches.



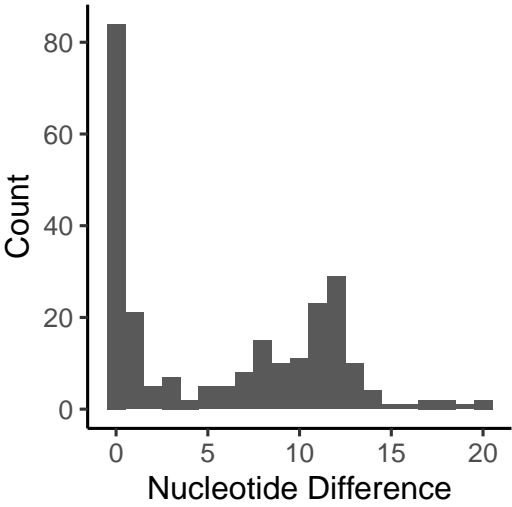
IGHV1/OR15-1*04

1 sequences assigned
No exact matches.



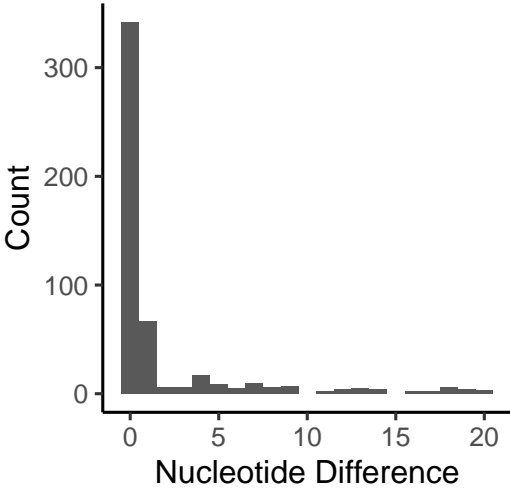
IGHV6-1*01_02

262 sequences assigned
84 (32.1%) exact matches, in which:
80 unique CDR3
5 unique J



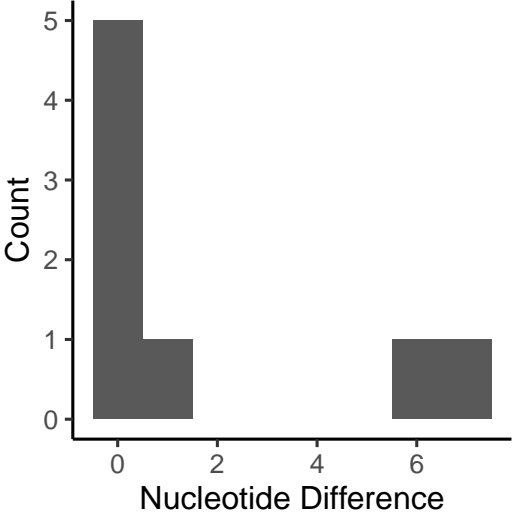
IGHV5-10-1*01_03

509 sequences assigned
342 (67.2%) exact matches, in which:
224 unique CDR3
6 unique J



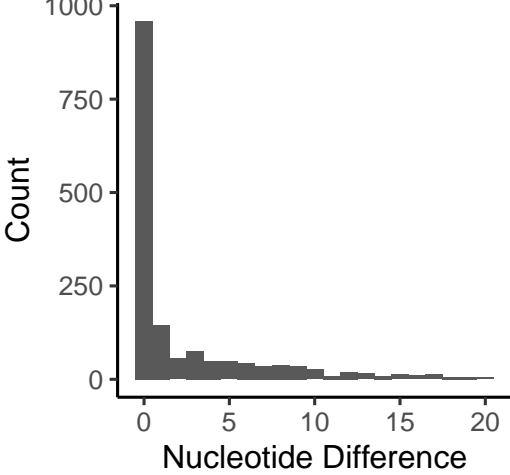
IGHV7-4-1*01

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



IGHV5-51*07_A128G

1927 sequences assigned
959 (49.8%) exact matches, in which:
597 unique CDR3
6 unique J





Warning – no inferred sequences found.