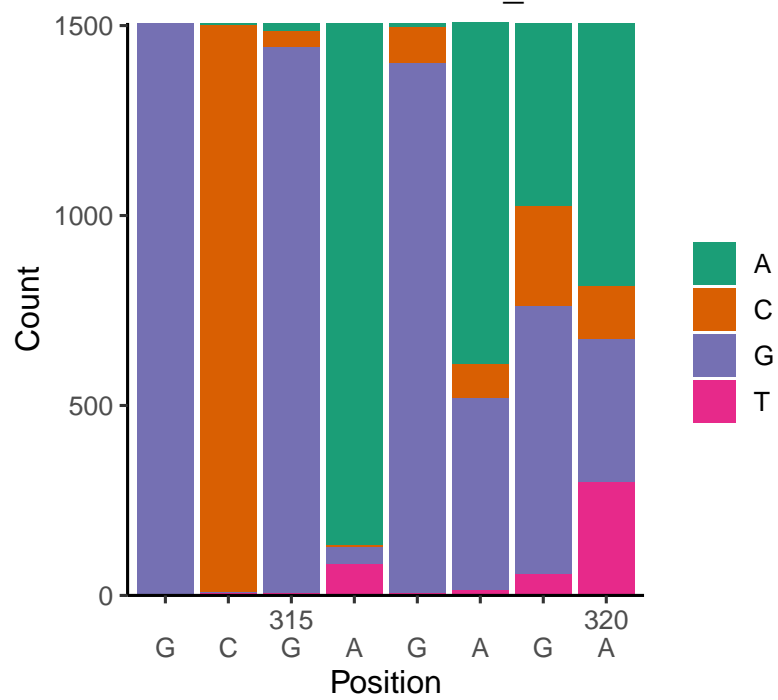


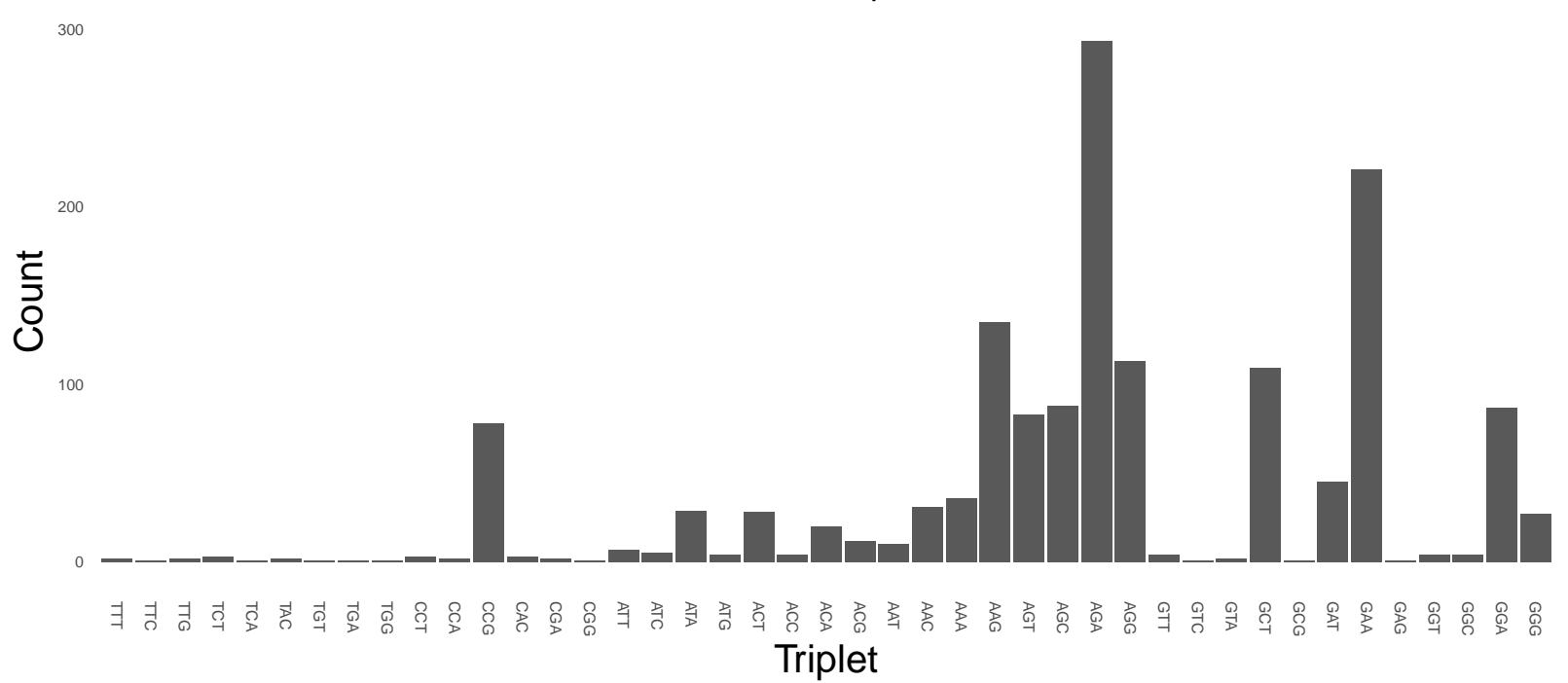
Gene IGHV4-38-2*02_A70G



Gene IGHV4-38-2*02_A70G

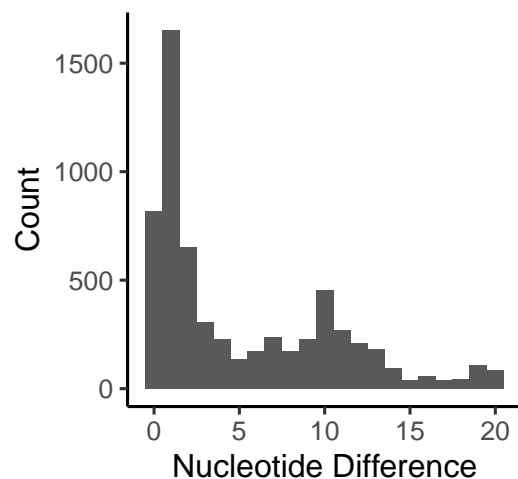


IGHV4-38-2*02_A70G- Final 3 nucleotides as a triplet



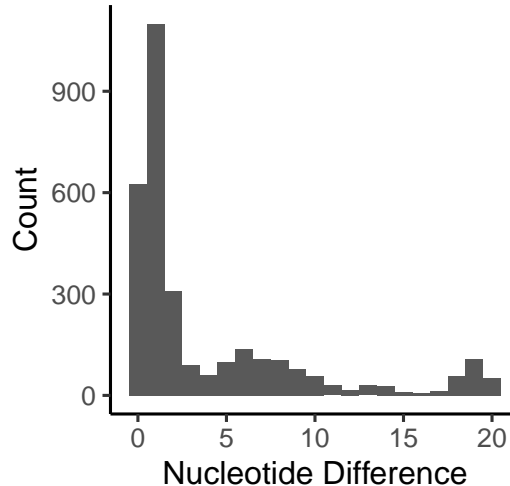
IGHV1-2*02

8138 sequences assigned
819 (10.1%) exact matches, in which:
597 unique CDR3
5 unique J



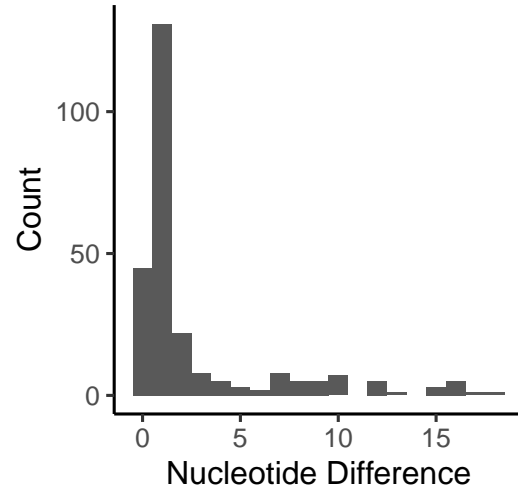
IGHV1-8*01

3401 sequences assigned
625 (18.4%) exact matches, in which:
453 unique CDR3
6 unique J



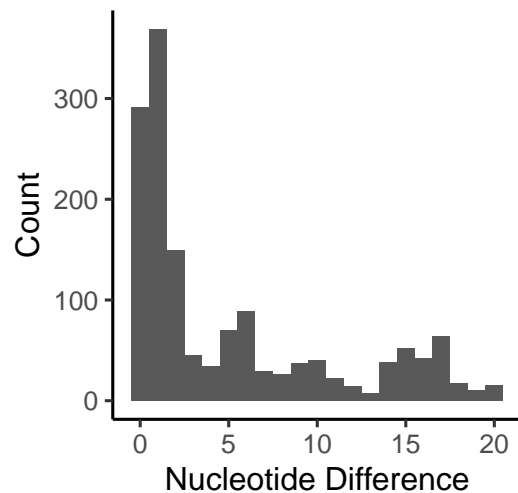
IGHV1-45*02

257 sequences assigned
45 (17.5%) exact matches, in which:
23 unique CDR3
3 unique J



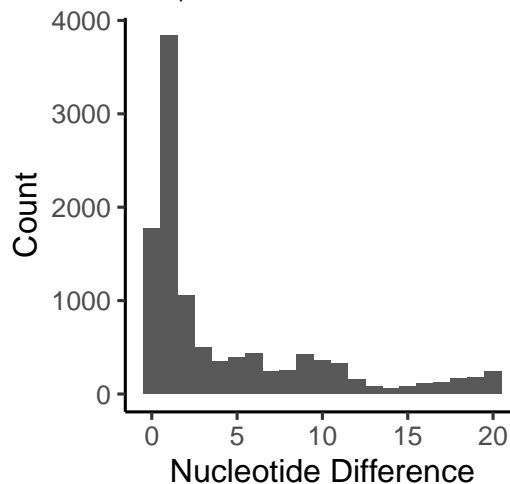
IGHV1-2*04

1476 sequences assigned
291 (19.7%) exact matches, in which:
233 unique CDR3
6 unique J



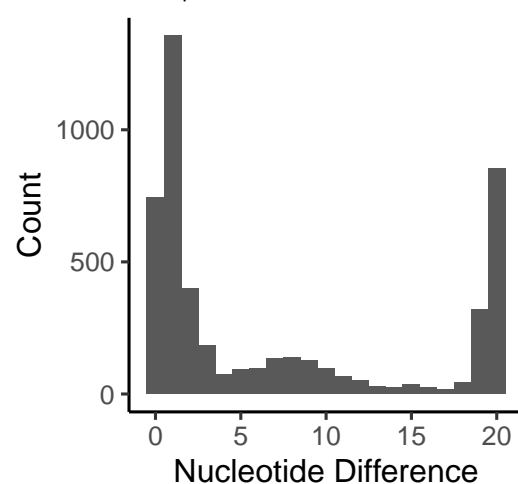
IGHV1-18*01

12783 sequences assigned
1767 (13.8%) exact matches, in which:
1164 unique CDR3
6 unique J



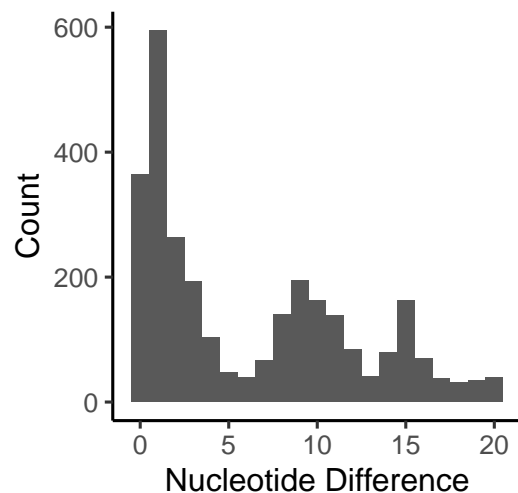
IGHV1-46*01

5932 sequences assigned
745 (12.6%) exact matches, in which:
516 unique CDR3
6 unique J



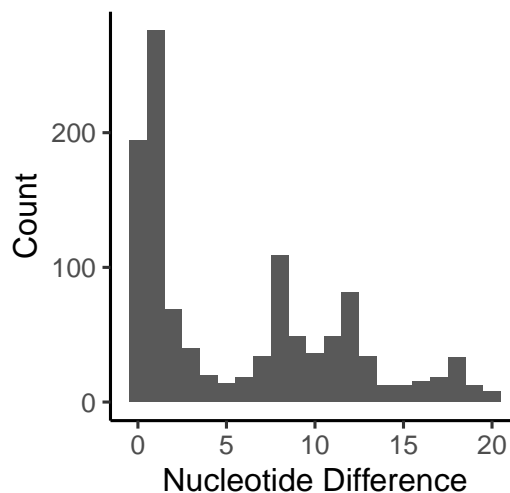
IGHV1-3*01_05

3298 sequences assigned
364 (11%) exact matches, in which:
266 unique CDR3
6 unique J



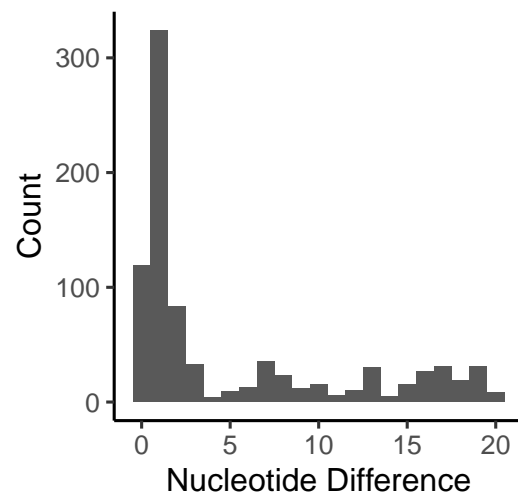
IGHV1-24*01

1167 sequences assigned
194 (16.6%) exact matches, in which:
143 unique CDR3
4 unique J



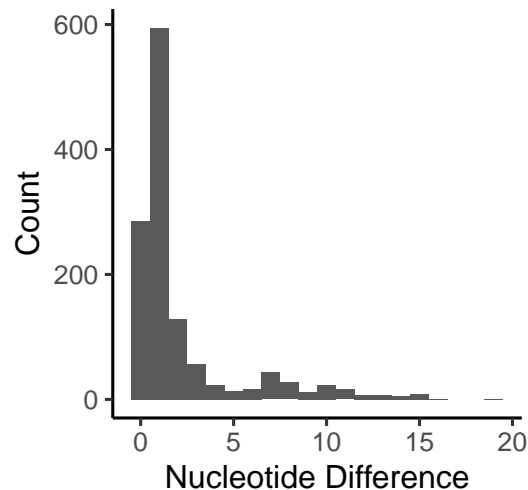
IGHV1-46*03

1324 sequences assigned
119 (9%) exact matches, in which:
60 unique CDR3
4 unique J



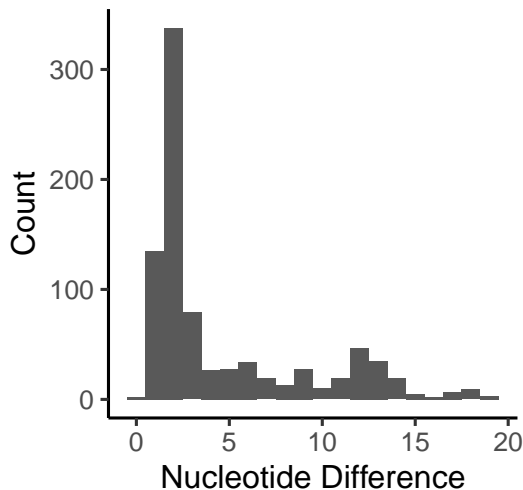
IGHV1–58*01_03

1272 sequences assigned
286 (22.5%) exact matches, in which:
192 unique CDR3
6 unique J



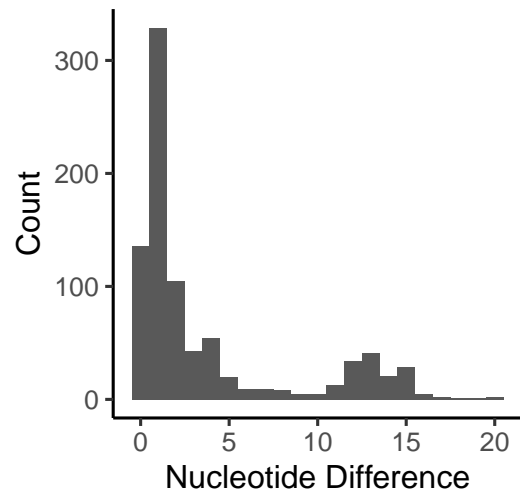
IGHV2–5*01

861 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



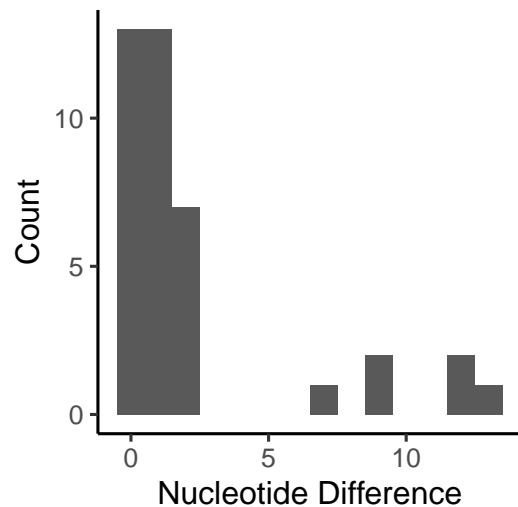
IGHV2–70*01

899 sequences assigned
136 (15.1%) exact matches, in which:
78 unique CDR3
4 unique J



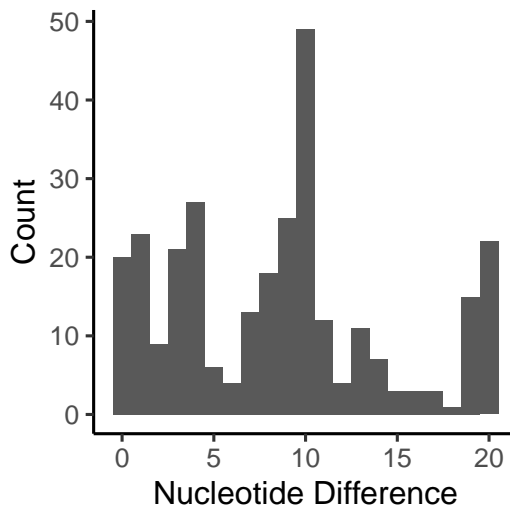
IGHV1–69–2*01

39 sequences assigned
13 (33.3%) exact matches, in which:
8 unique CDR3
3 unique J



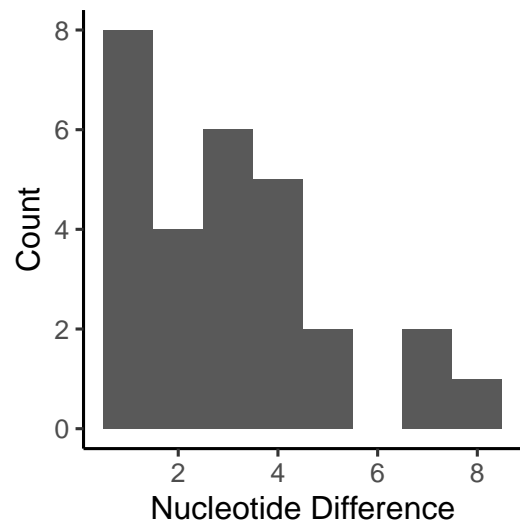
IGHV2–5*02

338 sequences assigned
20 (5.9%) exact matches, in which:
16 unique CDR3
2 unique J



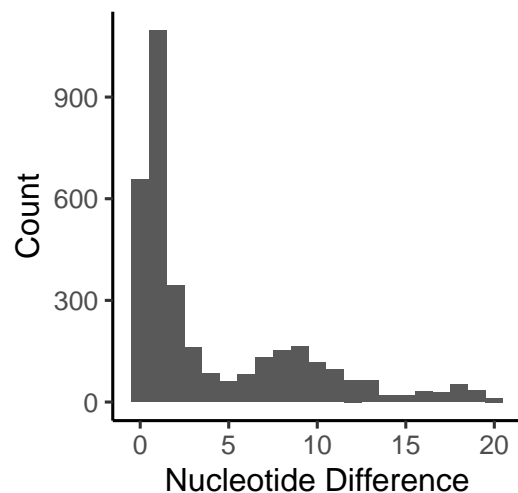
IGHV2–70*12

28 sequences assigned
No exact matches.



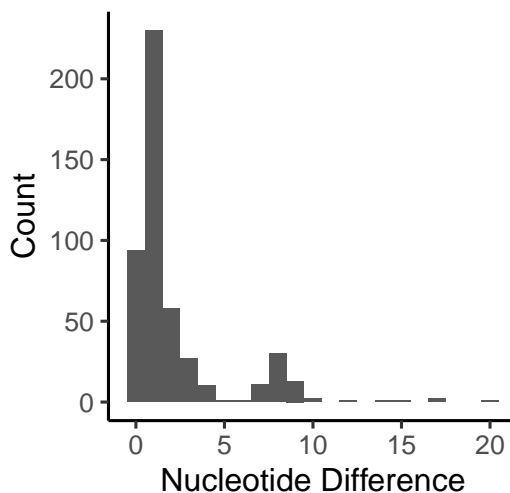
IGHV1–69*06_14

3787 sequences assigned
656 (17.3%) exact matches, in which:
503 unique CDR3
6 unique J



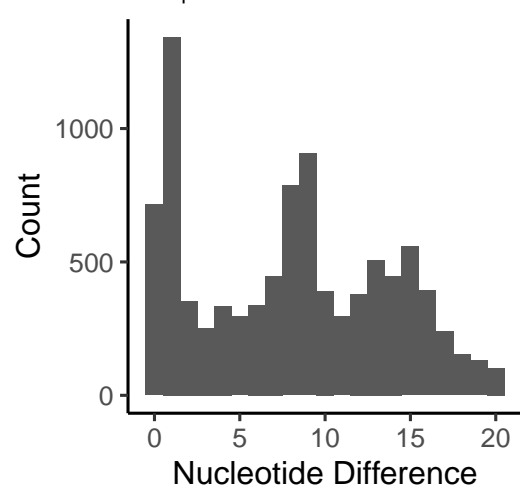
IGHV2–26*01

483 sequences assigned
94 (19.5%) exact matches, in which:
59 unique CDR3
5 unique J



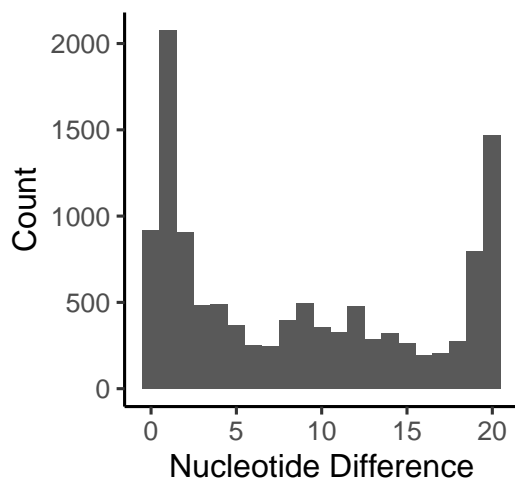
IGHV3–7*01

10140 sequences assigned
715 (7.1%) exact matches, in which:
449 unique CDR3
6 unique J



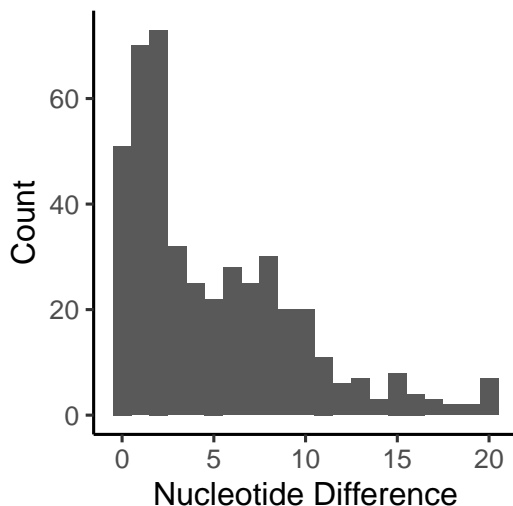
IGHV3-7*03

18070 sequences assigned
921 (5.1%) exact matches, in which:
482 unique CDR3
6 unique J



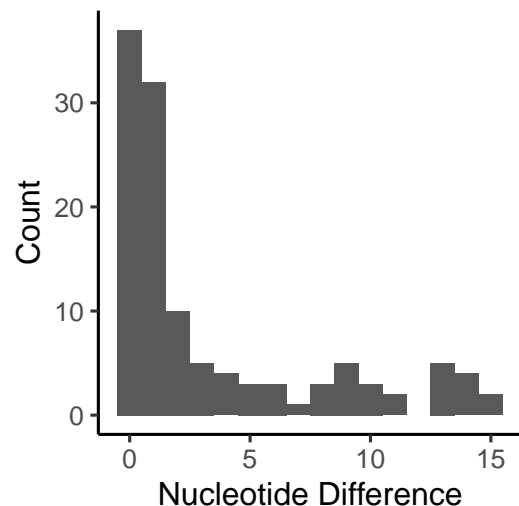
IGHV3-11*04

470 sequences assigned
51 (10.9%) exact matches, in which:
46 unique CDR3
4 unique J



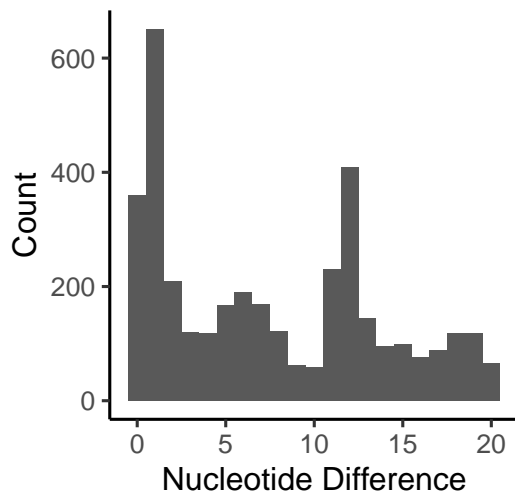
IGHV3-13*05

120 sequences assigned
37 (30.8%) exact matches, in which:
28 unique CDR3
5 unique J



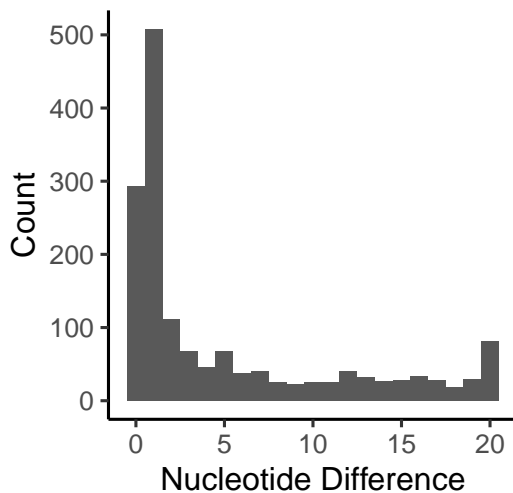
IGHV3-9*01

4511 sequences assigned
360 (8%) exact matches, in which:
198 unique CDR3
6 unique J



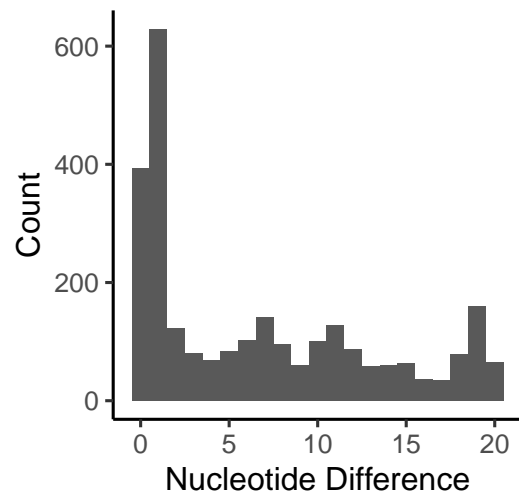
IGHV3-11*06

2032 sequences assigned
293 (14.4%) exact matches, in which:
176 unique CDR3
6 unique J



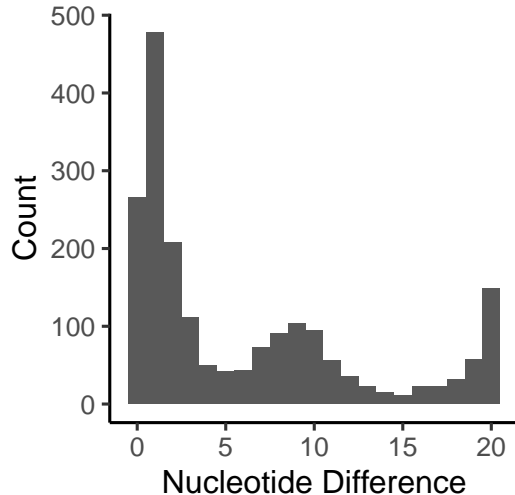
IGHV3-15*01_02

3209 sequences assigned
394 (12.3%) exact matches, in which:
234 unique CDR3
6 unique J



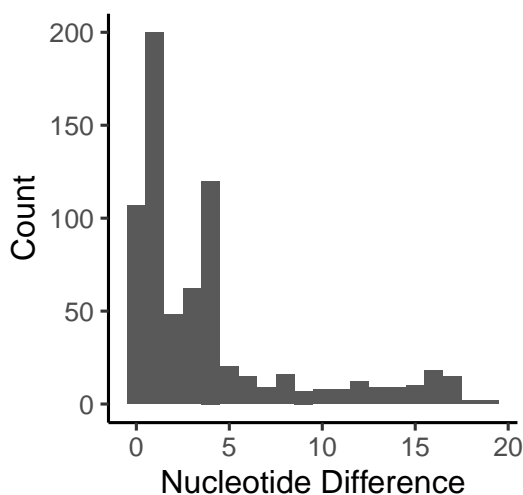
IGHV3-11*01

2985 sequences assigned
266 (8.9%) exact matches, in which:
180 unique CDR3
6 unique J



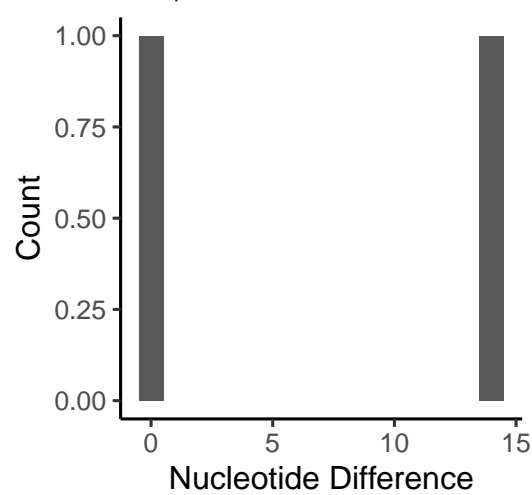
IGHV3-13*01

712 sequences assigned
107 (15%) exact matches, in which:
74 unique CDR3
5 unique J



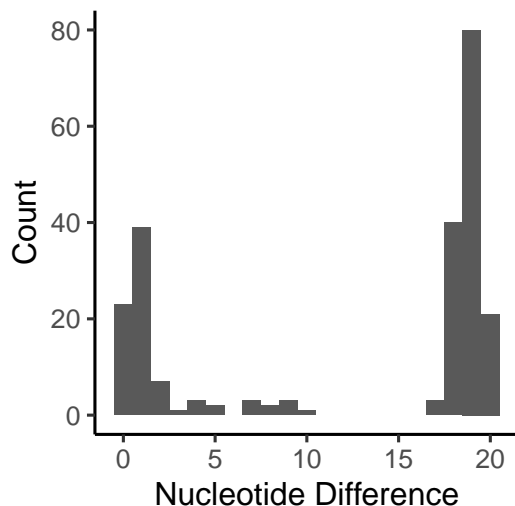
IGHV3-19*01

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



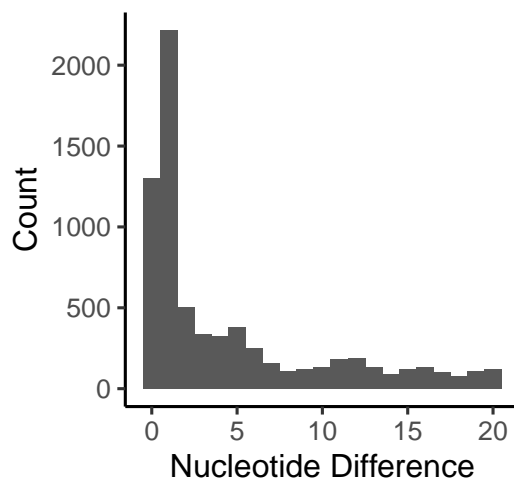
IGHV3-20*01_02

267 sequences assigned
23 (8.6%) exact matches, in which:
13 unique CDR3
3 unique J



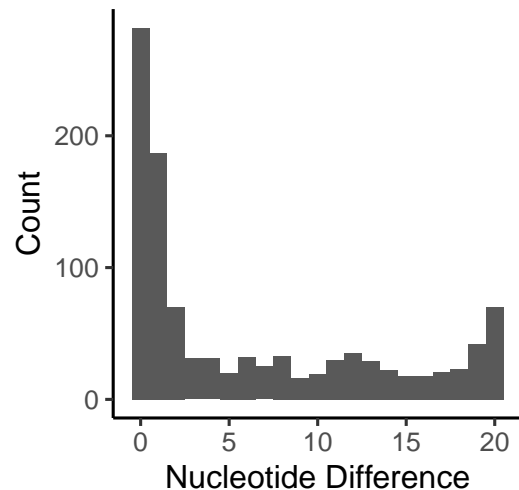
IGHV3-21*01_02

8224 sequences assigned
1301 (15.8%) exact matches, in which:
774 unique CDR3
6 unique J



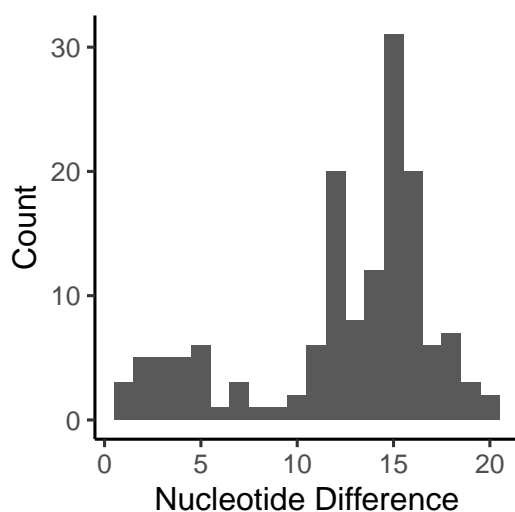
IGHV3-30*03

1295 sequences assigned
282 (21.8%) exact matches, in which:
221 unique CDR3
6 unique J



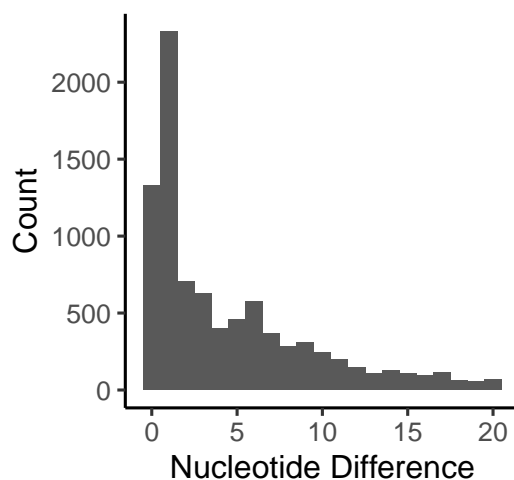
IGHV3-20*03_04

160 sequences assigned
No exact matches.



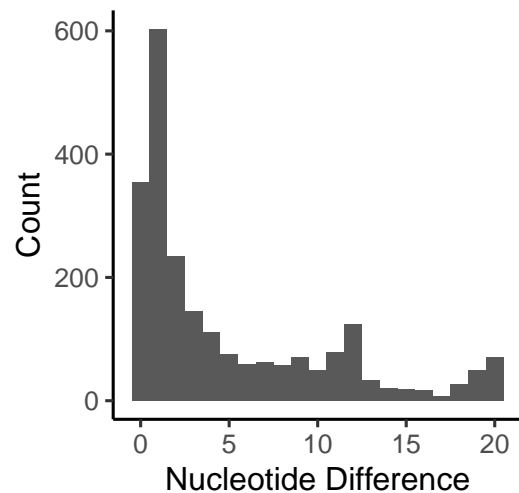
IGHV3-30-3*01

10610 sequences assigned
1331 (12.5%) exact matches, in which:
789 unique CDR3
6 unique J



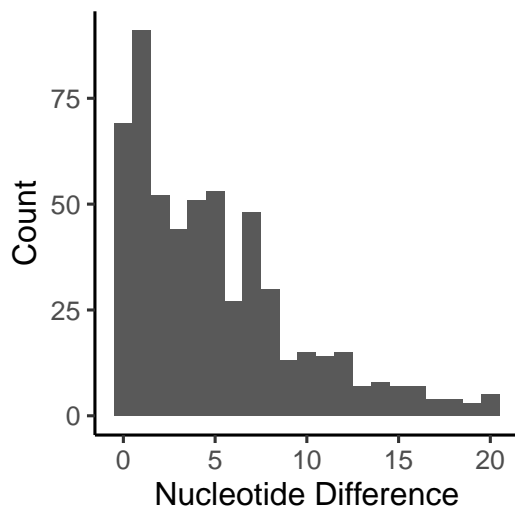
IGHV3-33*01

2993 sequences assigned
354 (11.8%) exact matches, in which:
224 unique CDR3
6 unique J



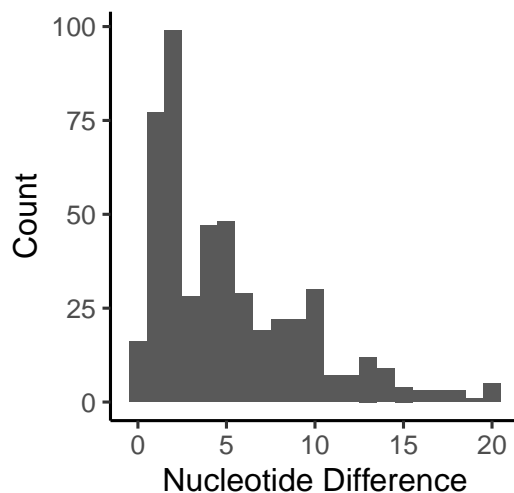
IGHV3-21*04

614 sequences assigned
69 (11.2%) exact matches, in which:
56 unique CDR3
6 unique J



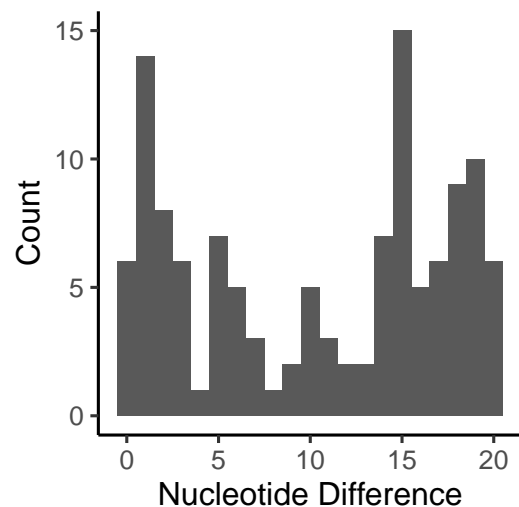
IGHV3-30-3*02

523 sequences assigned
16 (3.1%) exact matches, in which:
15 unique CDR3
3 unique J



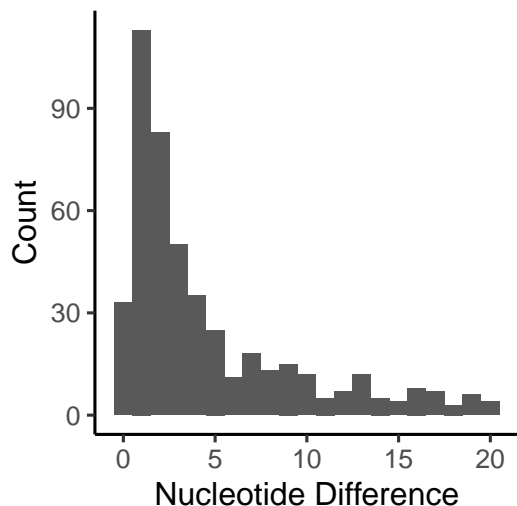
IGHV3-33*05

158 sequences assigned
6 (3.8%) exact matches, in which:
6 unique CDR3
4 unique J



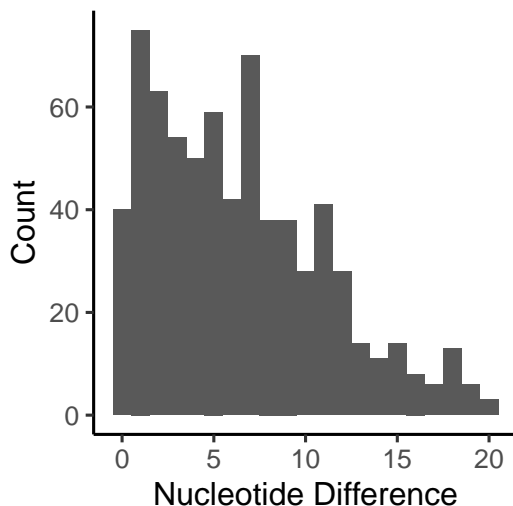
IGHV3-33*06

493 sequences assigned
33 (6.7%) exact matches, in which:
33 unique CDR3
3 unique J



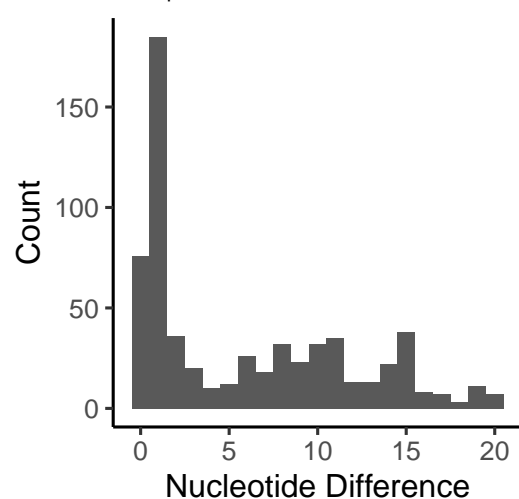
IGHV3-48*01

721 sequences assigned
40 (5.5%) exact matches, in which:
37 unique CDR3
5 unique J



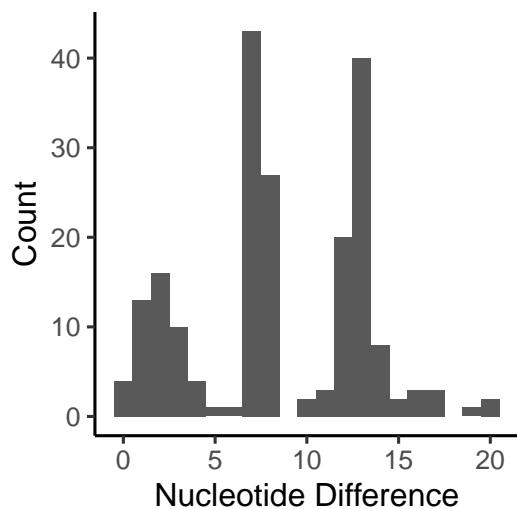
IGHV3-49*04

1030 sequences assigned
76 (7.4%) exact matches, in which:
38 unique CDR3
4 unique J



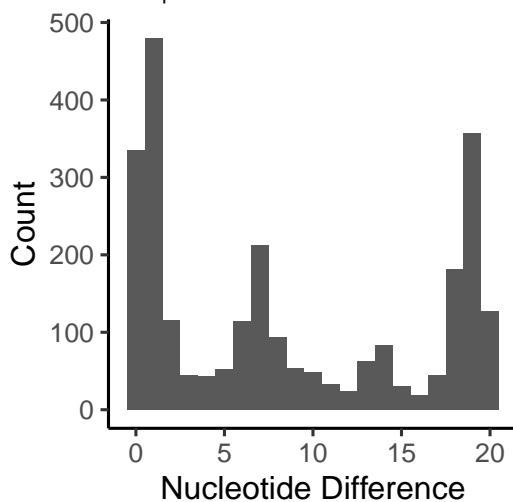
IGHV3-43*01

242 sequences assigned
4 (1.7%) exact matches, in which:
2 unique CDR3
1 unique J



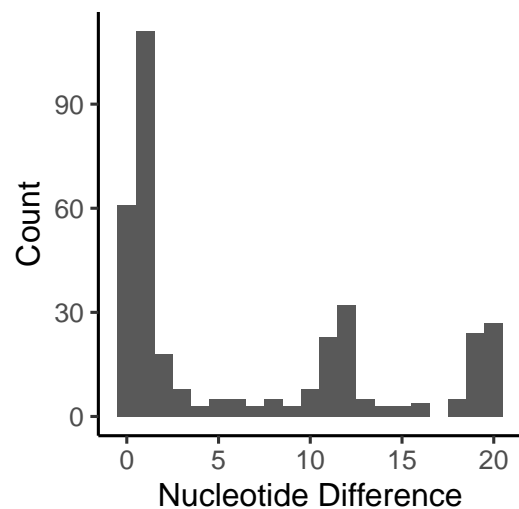
IGHV3-48*02

2685 sequences assigned
335 (12.5%) exact matches, in which:
211 unique CDR3
6 unique J



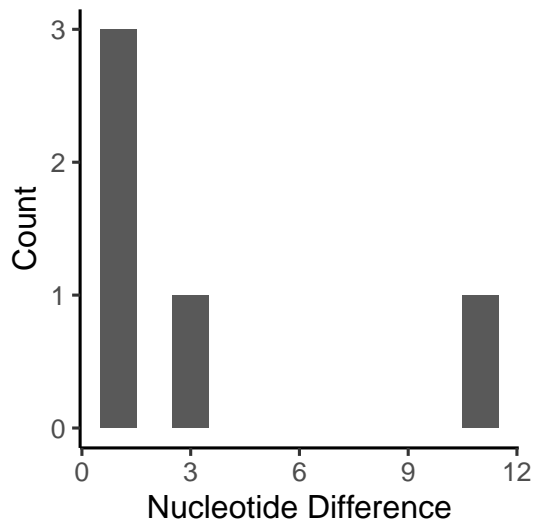
IGHV3-49*03_05

375 sequences assigned
61 (16.3%) exact matches, in which:
35 unique CDR3
4 unique J



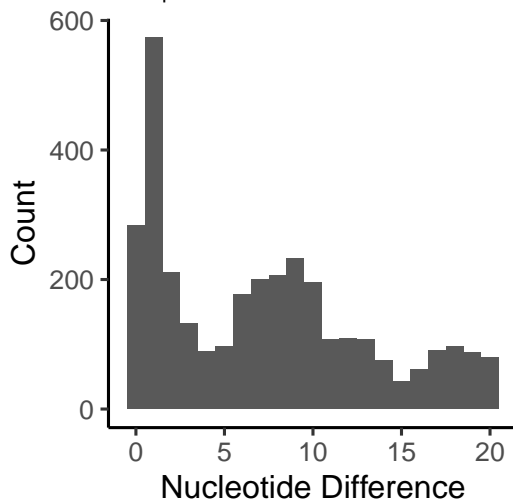
IGHV3-47*02

5 sequences assigned
No exact matches.



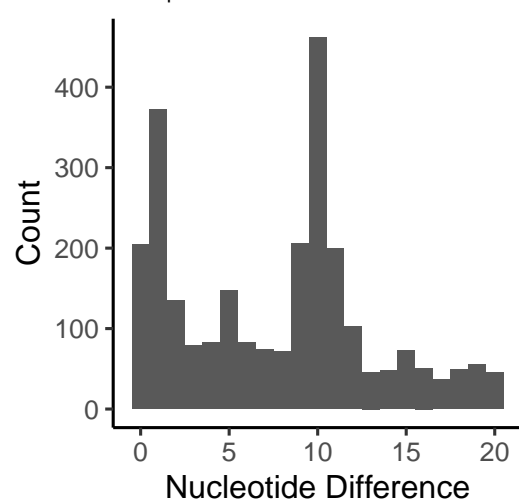
IGHV3-48*03

3683 sequences assigned
284 (7.7%) exact matches, in which:
164 unique CDR3
6 unique J



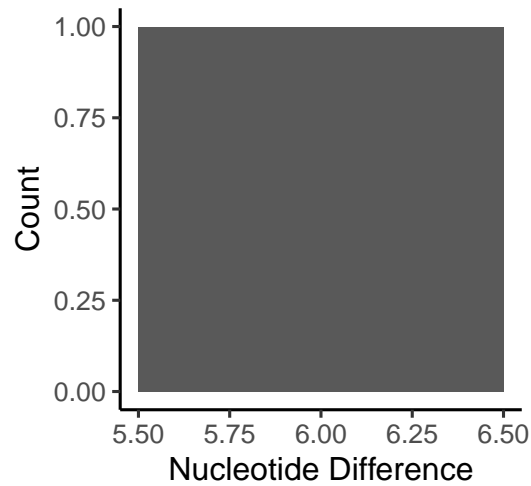
IGHV3-53*01_02

2726 sequences assigned
204 (7.5%) exact matches, in which:
124 unique CDR3
5 unique J



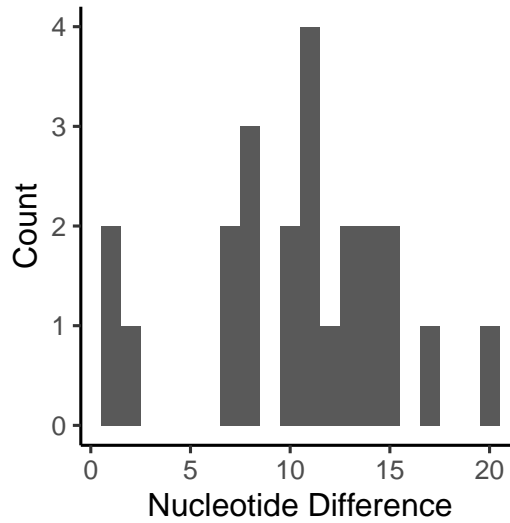
IGHV3-62*03

1 sequences assigned
No exact matches.



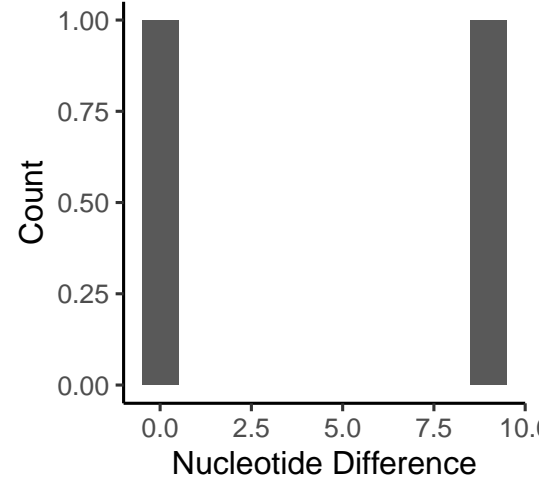
IGHV3-66*02

24 sequences assigned
No exact matches.



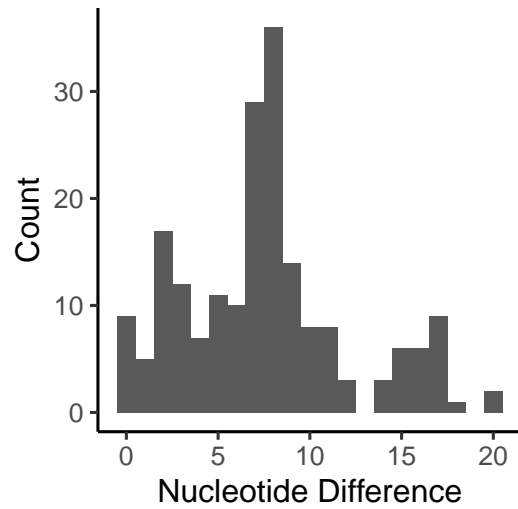
IGHV3-69-1*02

57 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



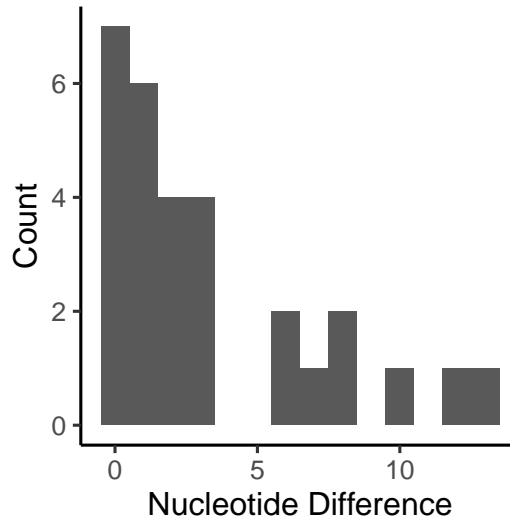
IGHV3-64*04

206 sequences assigned
9 (4.4%) exact matches, in which:
9 unique CDR3
4 unique J



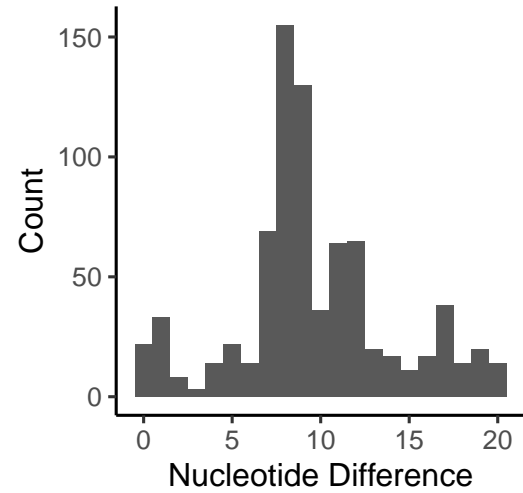
IGHV3-66*03

29 sequences assigned
7 (24.1%) exact matches, in which:
6 unique CDR3
4 unique J



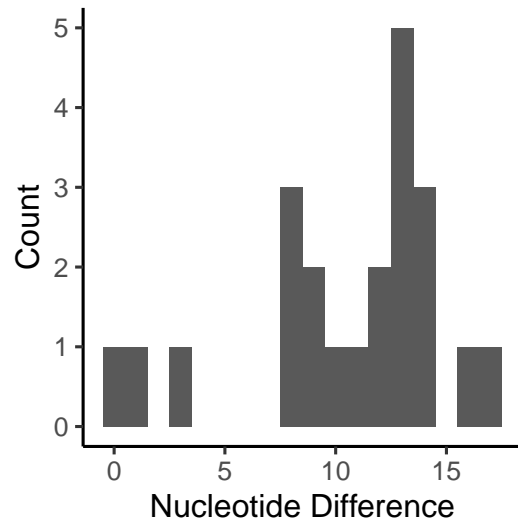
IGHV3-72*01

901 sequences assigned
22 (2.4%) exact matches, in which:
12 unique CDR3
4 unique J



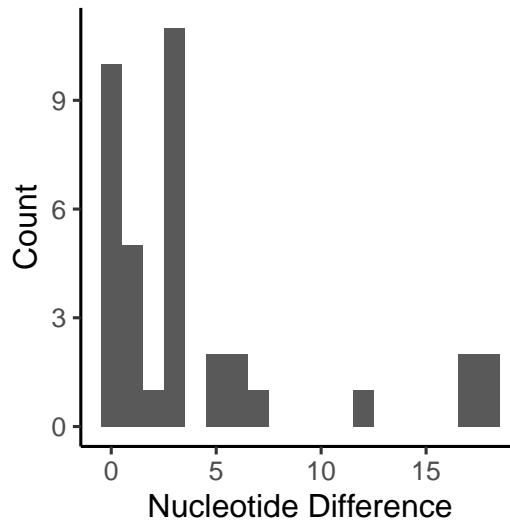
IGHV3-66*01

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



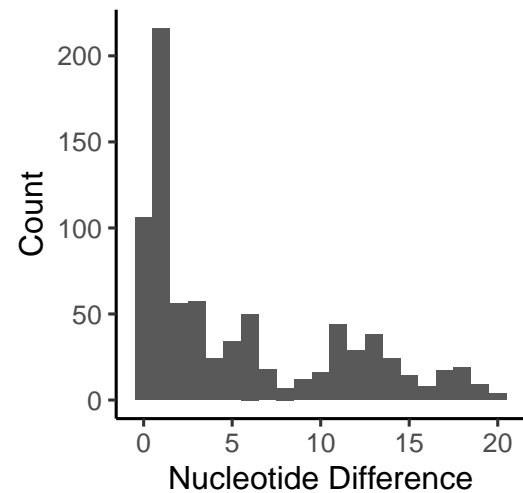
IGHV3-69-1*01

43 sequences assigned
10 (23.3%) exact matches, in which:
10 unique CDR3
5 unique J



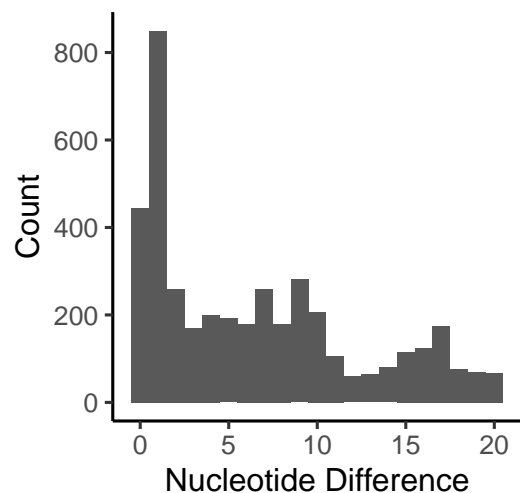
IGHV3-73*01_02

817 sequences assigned
106 (13%) exact matches, in which:
64 unique CDR3
5 unique J



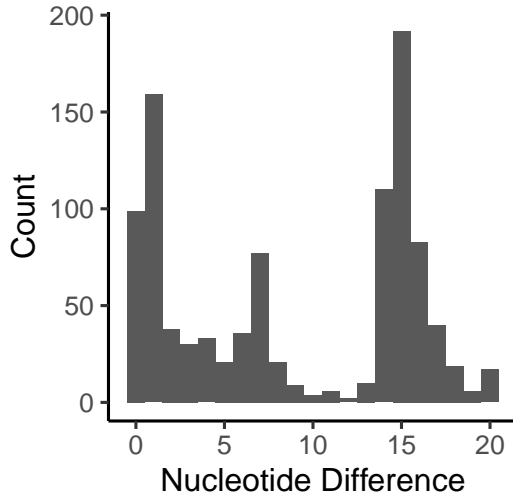
IGHV3-74*01_02

5194 sequences assigned
445 (8.6%) exact matches, in which:
284 unique CDR3
6 unique J



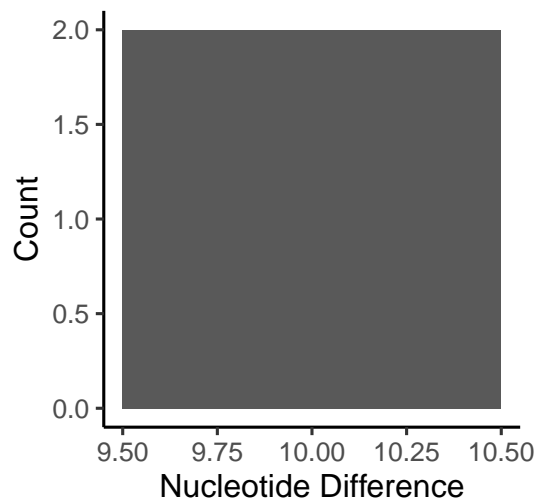
IGHV3-64D*09

1357 sequences assigned
99 (7.3%) exact matches, in which:
59 unique CDR3
5 unique J



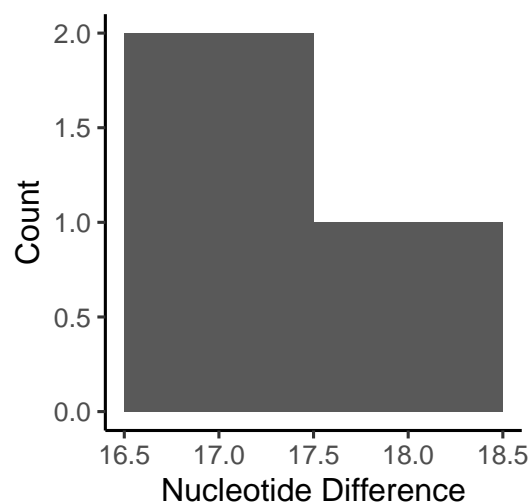
IGHV4-28*03

2 sequences assigned
No exact matches.



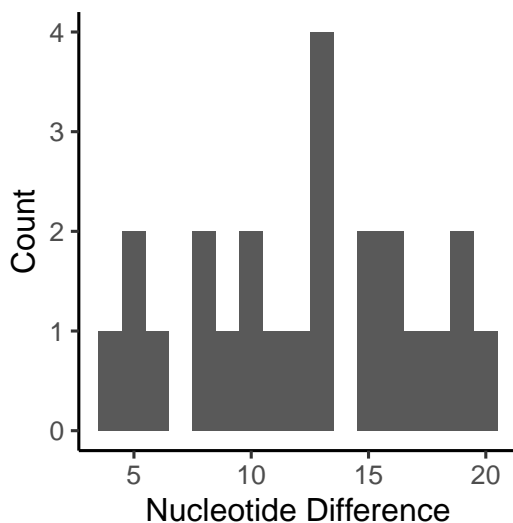
IGHV3-43D*03

3 sequences assigned
No exact matches.



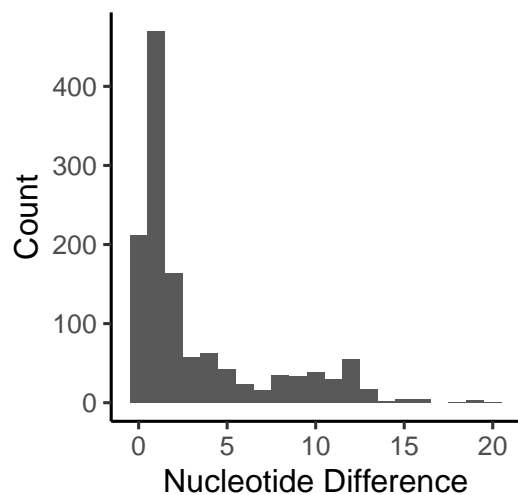
IGHV3-NL1*01

41 sequences assigned
No exact matches.



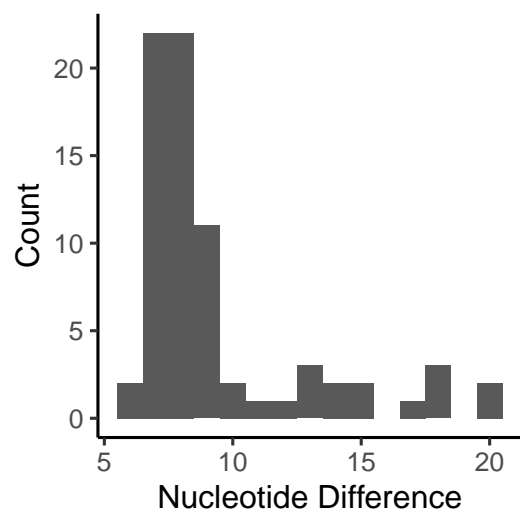
IGHV4-30-2*01

1321 sequences assigned
212 (16%) exact matches, in which:
136 unique CDR3
5 unique J



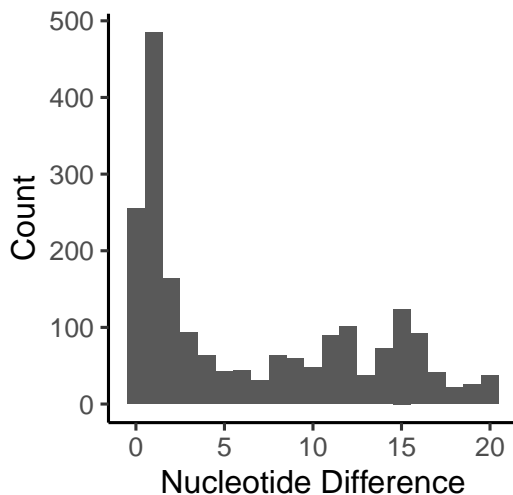
IGHV3-64D*06

99 sequences assigned
No exact matches.



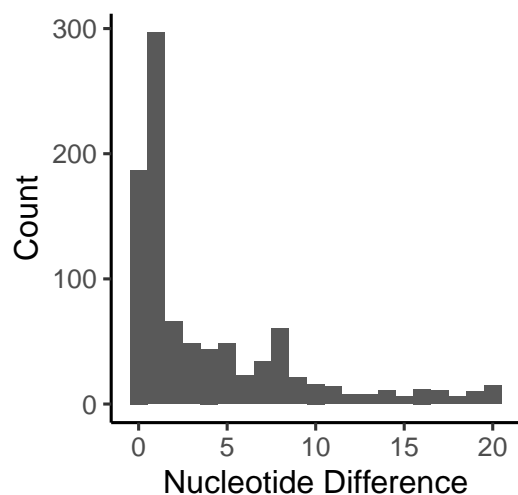
IGHV4-4*07

2204 sequences assigned
255 (11.6%) exact matches, in which:
171 unique CDR3
6 unique J



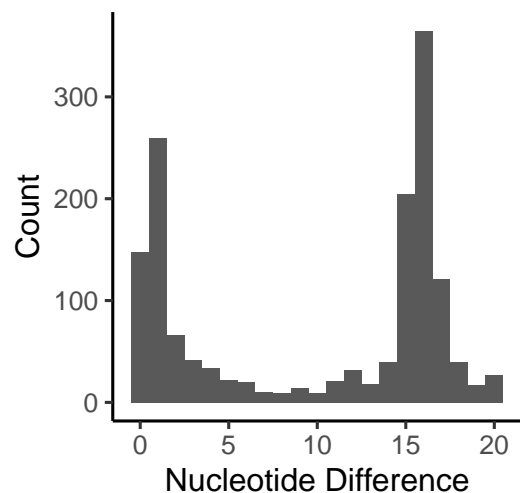
IGHV4-30-4*01

1645 sequences assigned
187 (11.4%) exact matches, in which:
138 unique CDR3
6 unique J



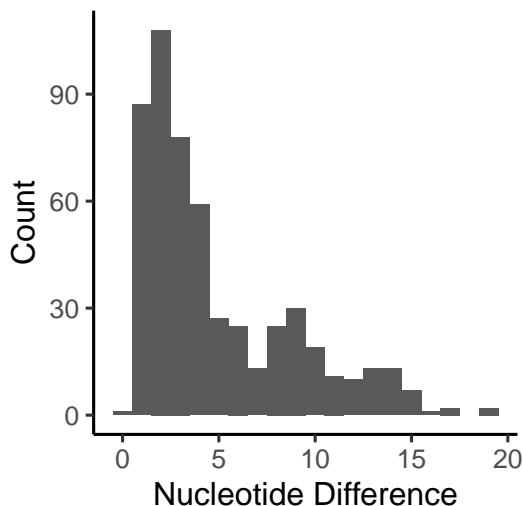
IGHV4-31*03_04

2310 sequences assigned
148 (6.4%) exact matches, in which:
103 unique CDR3
5 unique J



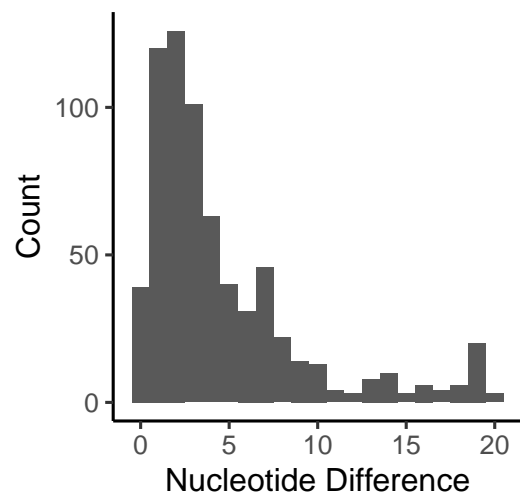
IGHV4-39*07

535 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



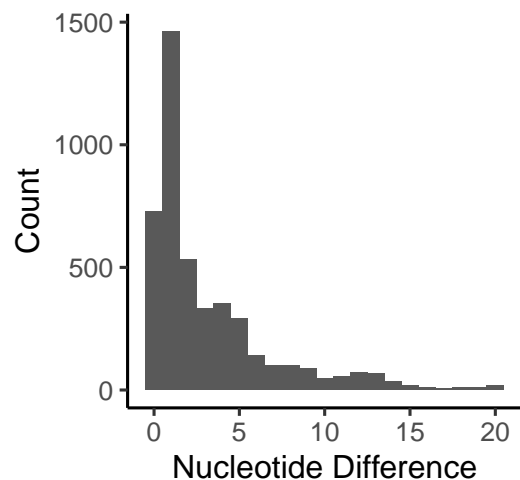
IGHV4-59*12

695 sequences assigned
39 (5.6%) exact matches, in which:
36 unique CDR3
6 unique J



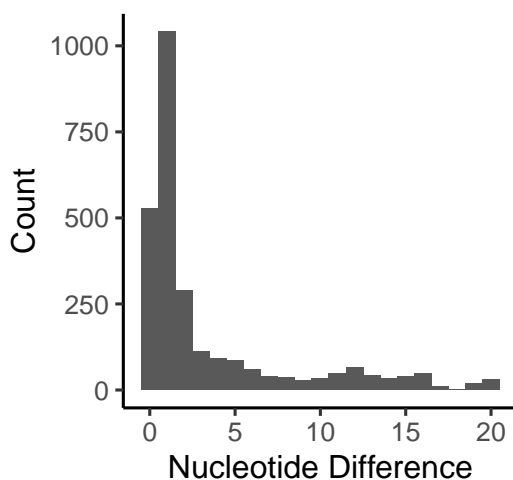
IGHV4-34*01_02

5286 sequences assigned
726 (13.7%) exact matches, in which:
469 unique CDR3
6 unique J



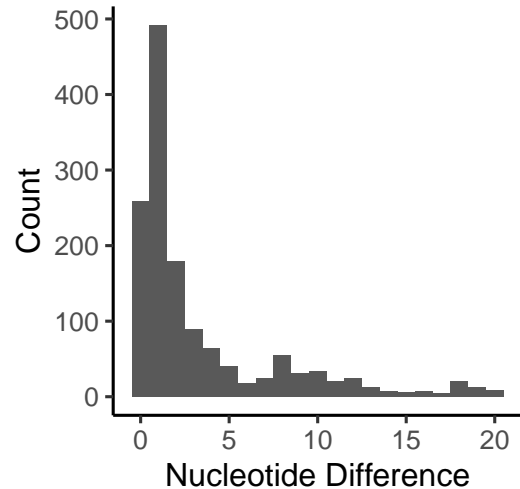
IGHV4-39*01_05

2759 sequences assigned
526 (19.1%) exact matches, in which:
343 unique CDR3
6 unique J



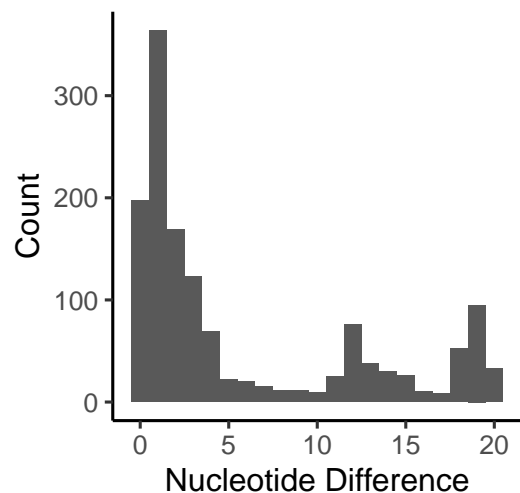
IGHV4-61*01

1569 sequences assigned
259 (16.5%) exact matches, in which:
187 unique CDR3
6 unique J



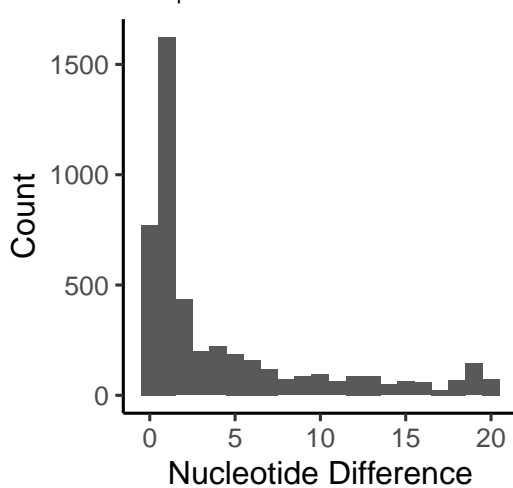
IGHV4-38-2*02_A70G

1507 sequences assigned
197 (13.1%) exact matches, in which:
134 unique CDR3
6 unique J



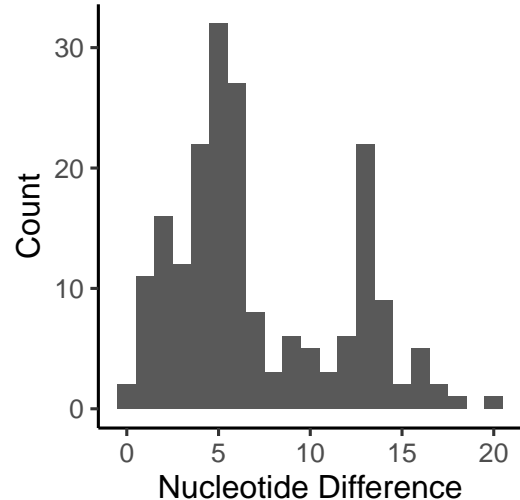
IGHV4-59*01_07

5131 sequences assigned
772 (15%) exact matches, in which:
492 unique CDR3
6 unique J



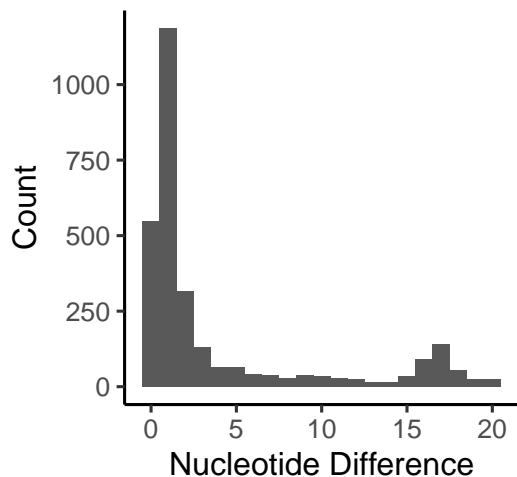
IGHV4-61*08

295 sequences assigned
2 (0.7%) exact matches, in which:
2 unique CDR3
2 unique J



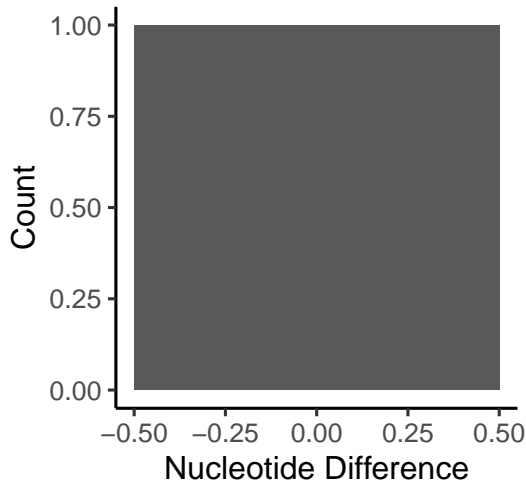
IGHV5-10-1*01_03

3060 sequences assigned
548 (17.9%) exact matches, in which:
322 unique CDR3
6 unique J



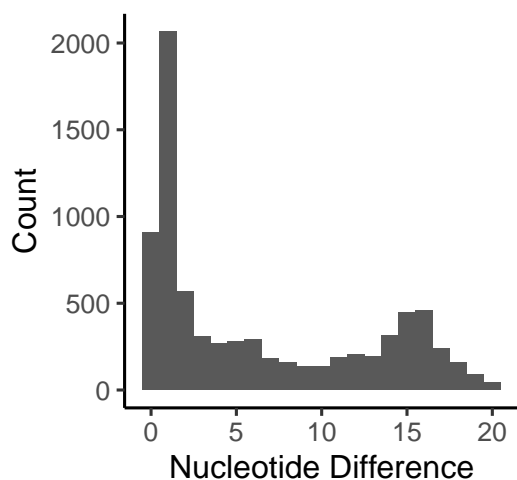
IGHV7-4-1*01

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



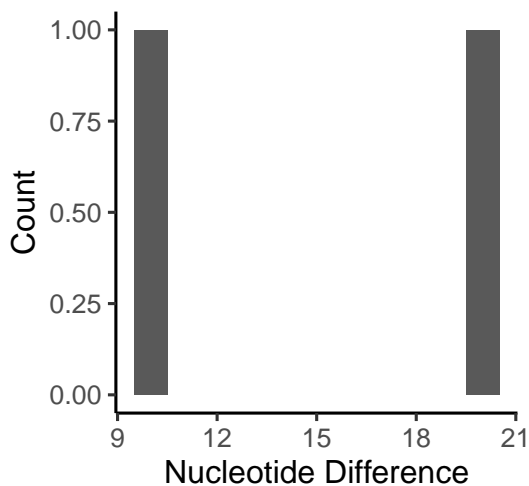
IGHV5-51*01_03

7890 sequences assigned
906 (11.5%) exact matches, in which:
485 unique CDR3
6 unique J



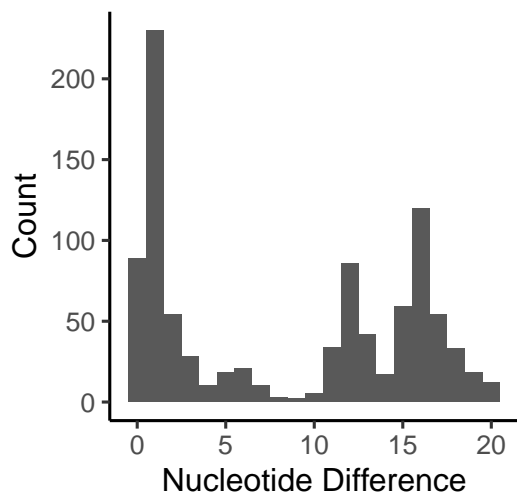
IGHV7-4-1*02

2 sequences assigned
No exact matches.



IGHV6-1*01_02

1347 sequences assigned
89 (6.6%) exact matches, in which:
59 unique CDR3
4 unique J





Novel sequence(s)IGHV1-69*01_12_13_G238AIGHV3-48*03_T303G are not listed in the genotype and will be ignored.