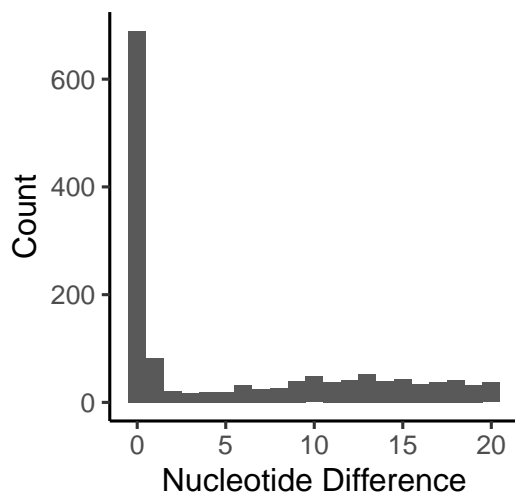


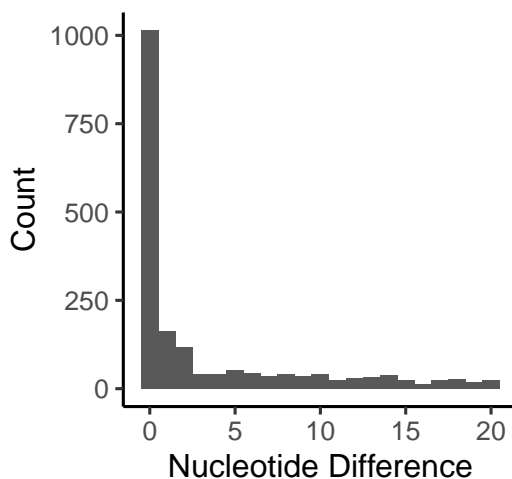
IGHV1-2*02

1667 sequences assigned
690 (41.4%) exact matches, in which:
675 unique CDR3
6 unique J



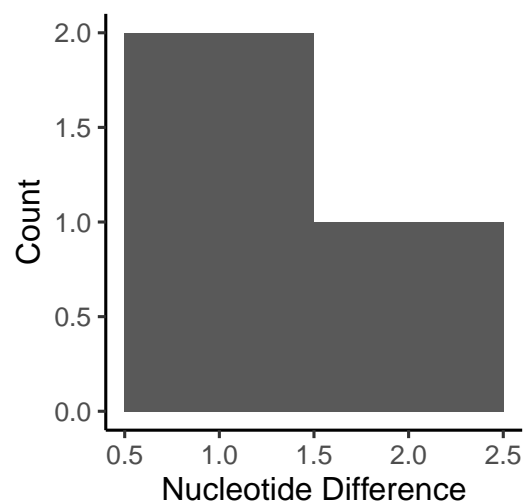
IGHV1-8*01

2034 sequences assigned
1014 (49.9%) exact matches, in which:
973 unique CDR3
6 unique J



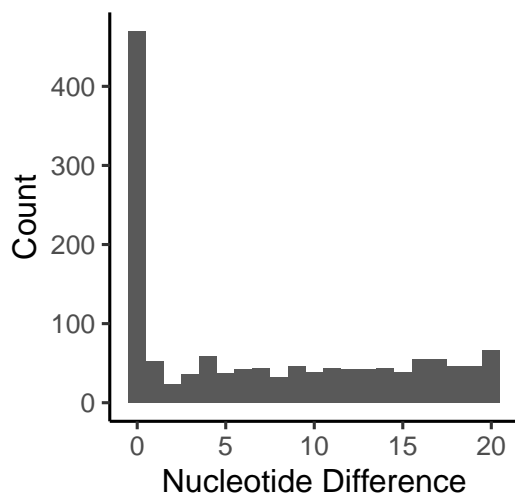
IGHV1-45*02

4 sequences assigned
No exact matches.



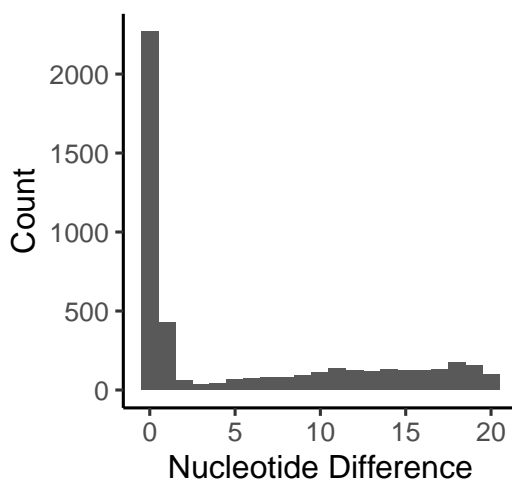
IGHV1-2*06

1514 sequences assigned
470 (31%) exact matches, in which:
453 unique CDR3
6 unique J



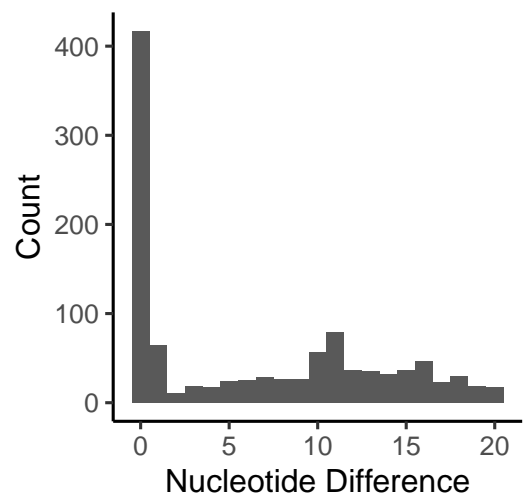
IGHV1-18*01

5277 sequences assigned
2268 (43%) exact matches, in which:
2164 unique CDR3
6 unique J



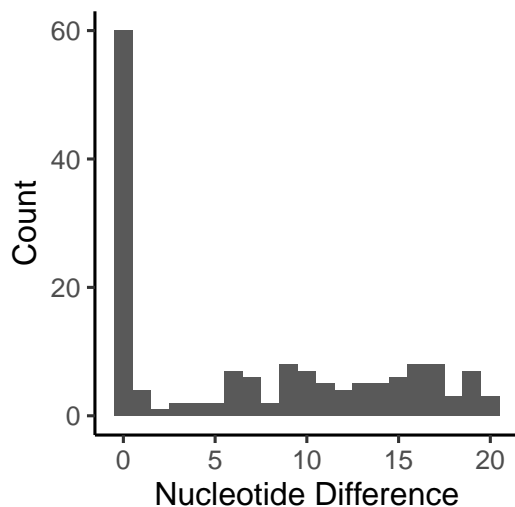
IGHV1-46*01

1221 sequences assigned
417 (34.2%) exact matches, in which:
408 unique CDR3
6 unique J



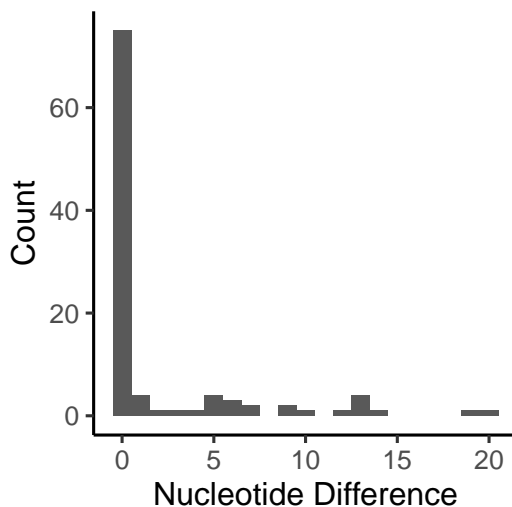
IGHV1-3*01_05

211 sequences assigned
60 (28.4%) exact matches, in which:
60 unique CDR3
5 unique J



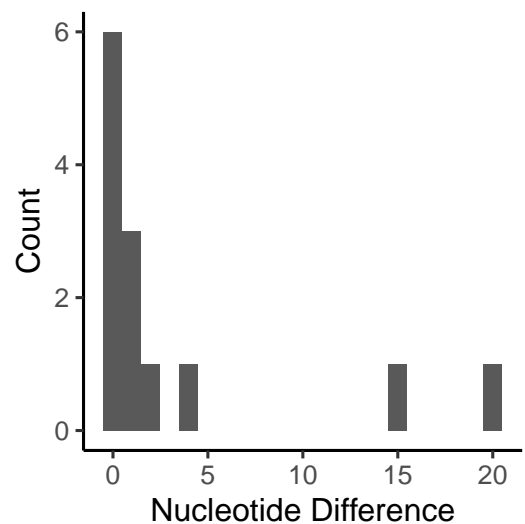
IGHV1-24*01

106 sequences assigned
75 (70.8%) exact matches, in which:
73 unique CDR3
6 unique J



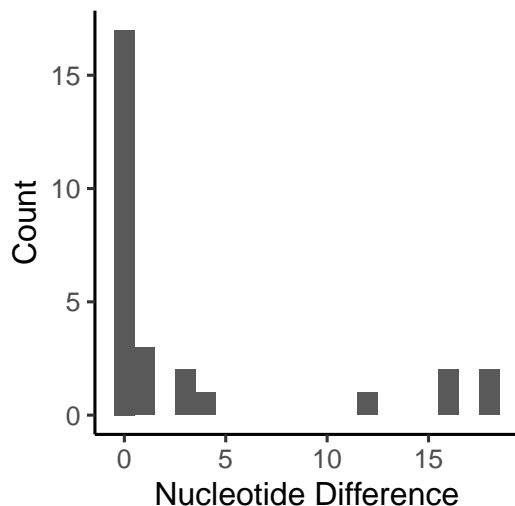
IGHV1-58*02

16 sequences assigned
6 (37.5%) exact matches, in which:
6 unique CDR3
2 unique J



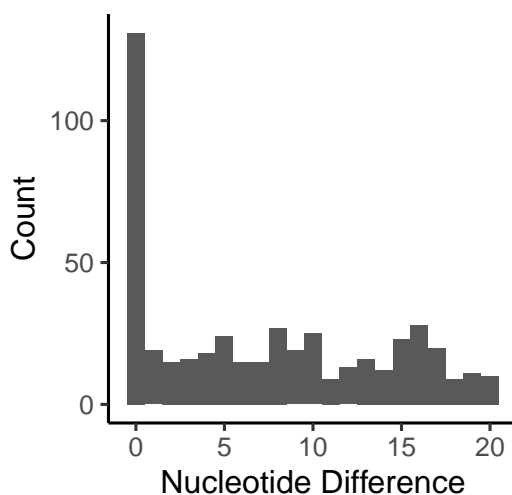
IGHV1-58*01_03

35 sequences assigned
17 (48.6%) exact matches, in which:
17 unique CDR3
5 unique J



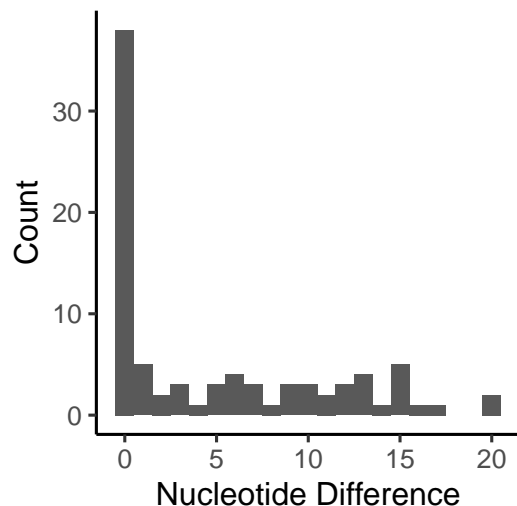
IGHV2-5*02

546 sequences assigned
131 (24%) exact matches, in which:
129 unique CDR3
6 unique J



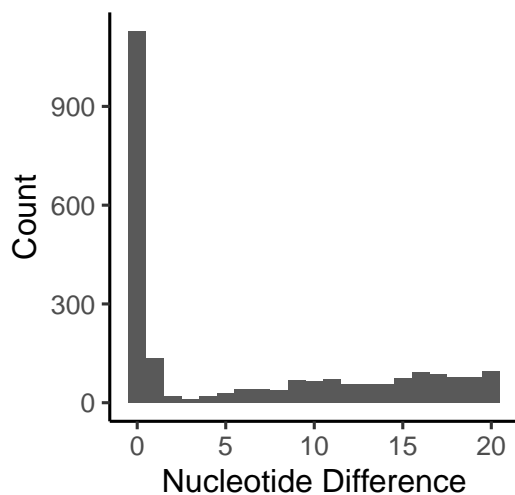
IGHV2-70*11_15

87 sequences assigned
38 (43.7%) exact matches, in which:
36 unique CDR3
4 unique J



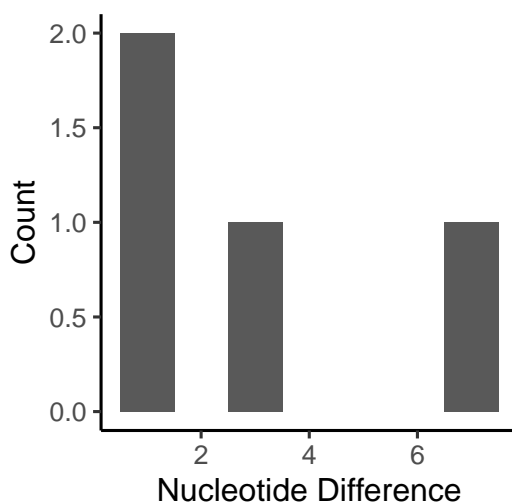
IGHV1-69*01_12_13

2891 sequences assigned
1129 (39.1%) exact matches, in which:
1097 unique CDR3
6 unique J



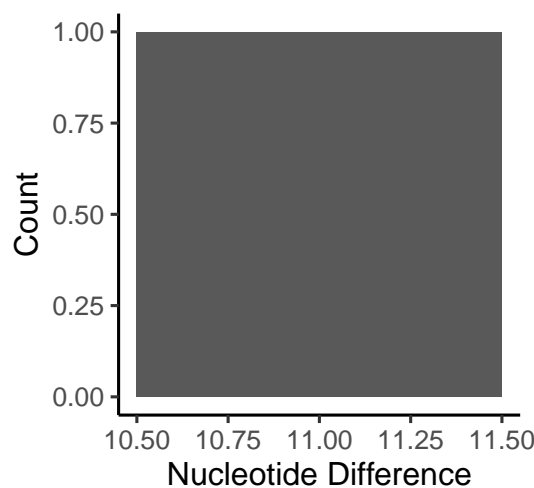
IGHV2-26*01

7 sequences assigned
No exact matches.



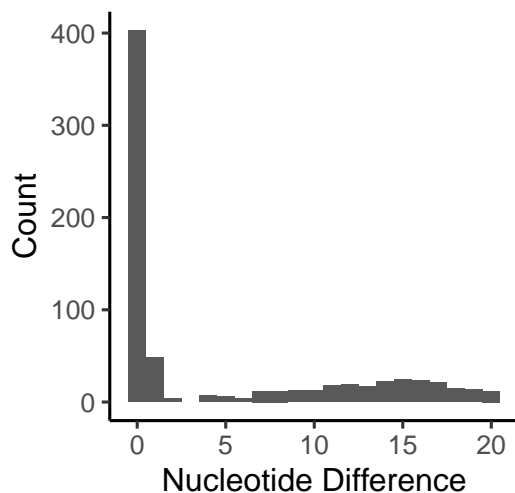
IGHV2-70D*04

1 sequences assigned
No exact matches.



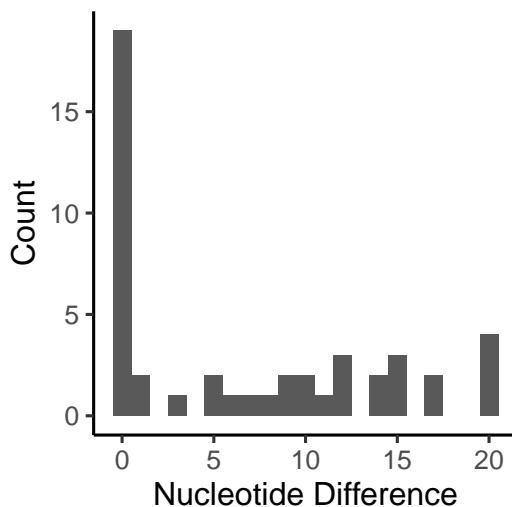
IGHV1-69*04_09

837 sequences assigned
403 (48.1%) exact matches, in which:
395 unique CDR3
6 unique J



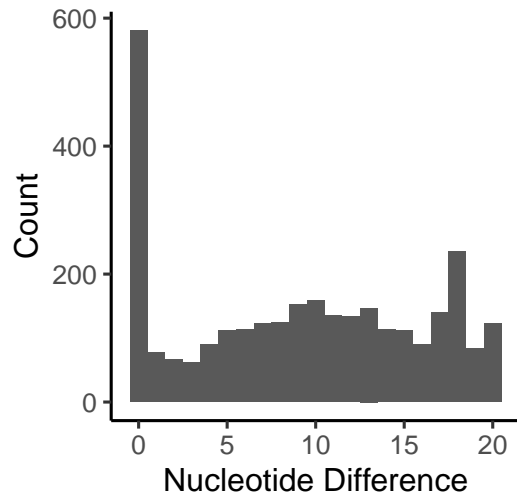
IGHV2-70*01

54 sequences assigned
19 (35.2%) exact matches, in which:
19 unique CDR3
3 unique J



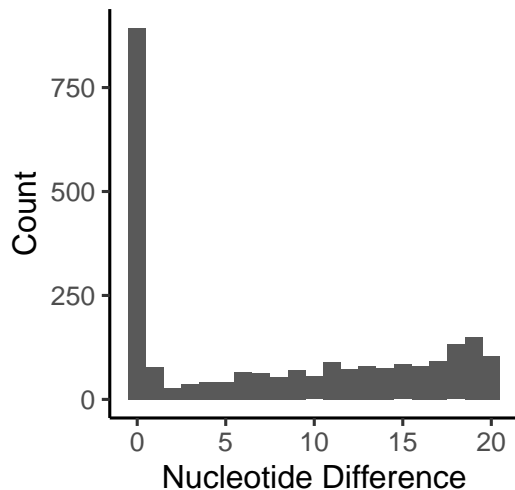
IGHV3-7*01

3332 sequences assigned
581 (17.4%) exact matches, in which:
577 unique CDR3
6 unique J



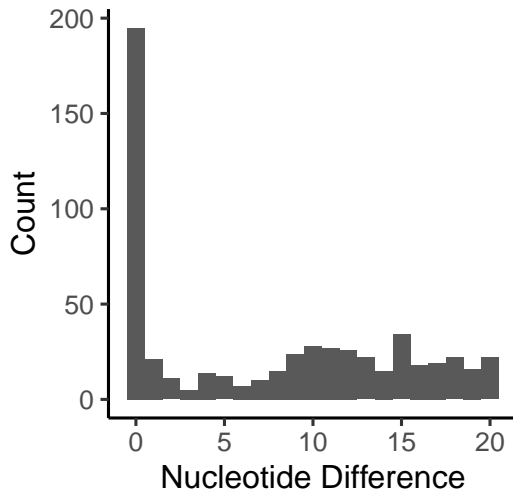
IGHV3-9*01

2867 sequences assigned
894 (31.2%) exact matches, in which:
884 unique CDR3
6 unique J



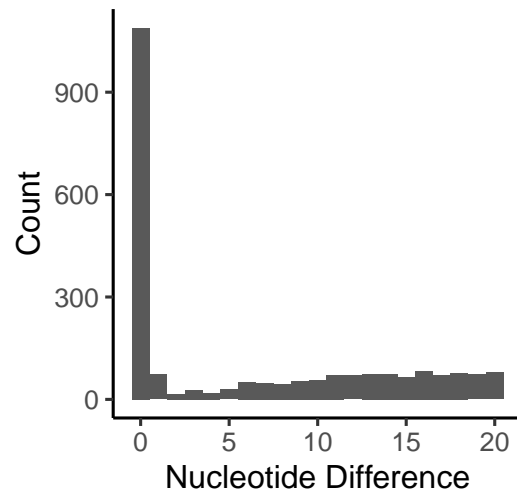
IGHV3-15*01_02

655 sequences assigned
195 (29.8%) exact matches, in which:
193 unique CDR3
6 unique J



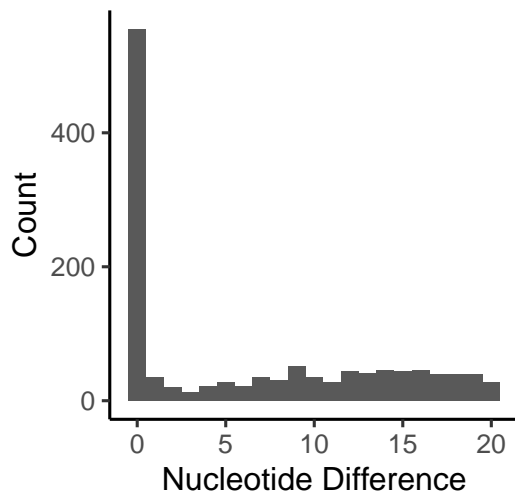
IGHV3-21*01_02

2929 sequences assigned
1089 (37.2%) exact matches, in which:
1076 unique CDR3
6 unique J



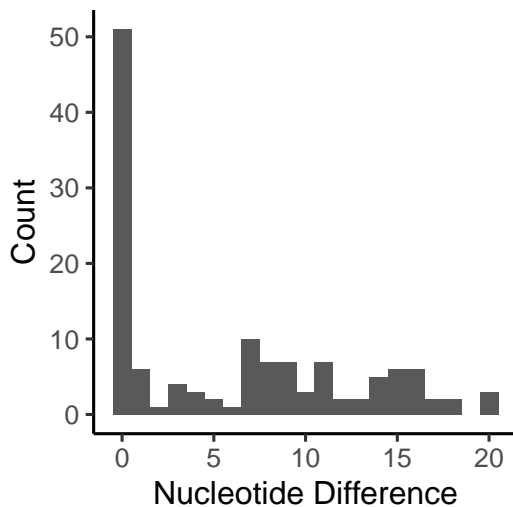
IGHV3-11*01

1517 sequences assigned
555 (36.6%) exact matches, in which:
547 unique CDR3
6 unique J



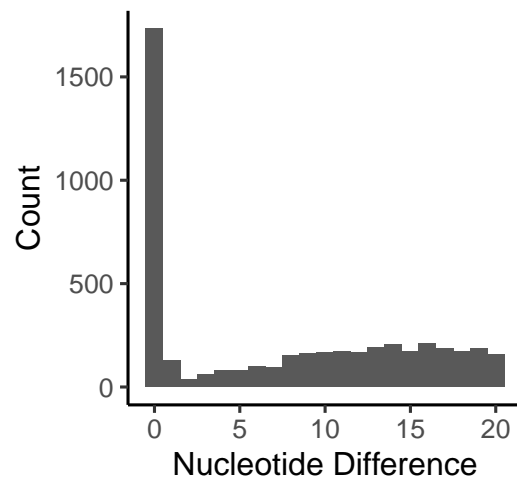
IGHV3-20*01_02

137 sequences assigned
51 (37.2%) exact matches, in which:
50 unique CDR3
5 unique J



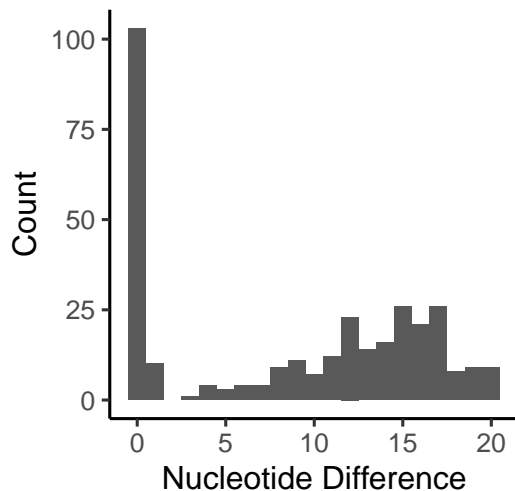
IGHV3-23*01_04

5884 sequences assigned
1733 (29.5%) exact matches, in which:
1714 unique CDR3
6 unique J



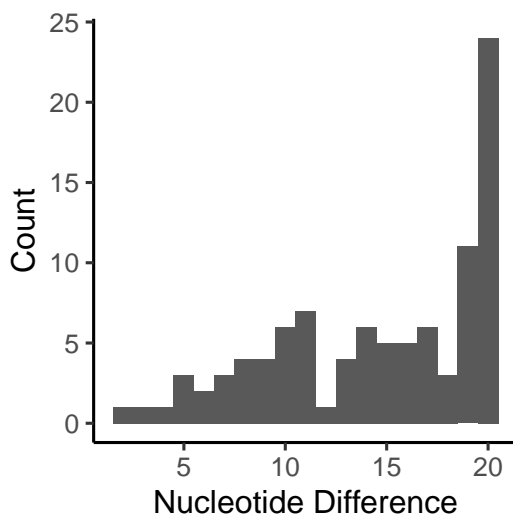
IGHV3-13*01

377 sequences assigned
103 (27.3%) exact matches, in which:
102 unique CDR3
5 unique J



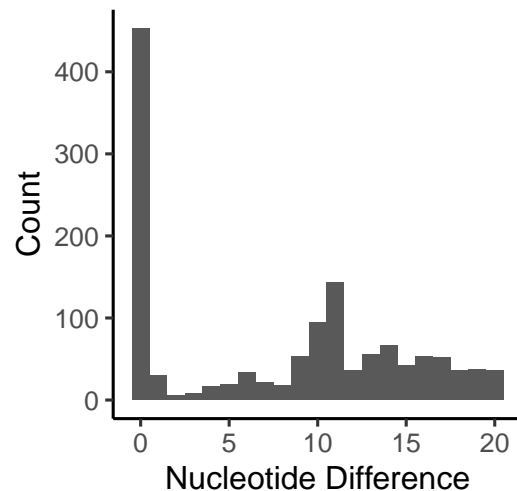
IGHV3-20*03_04

177 sequences assigned
No exact matches.



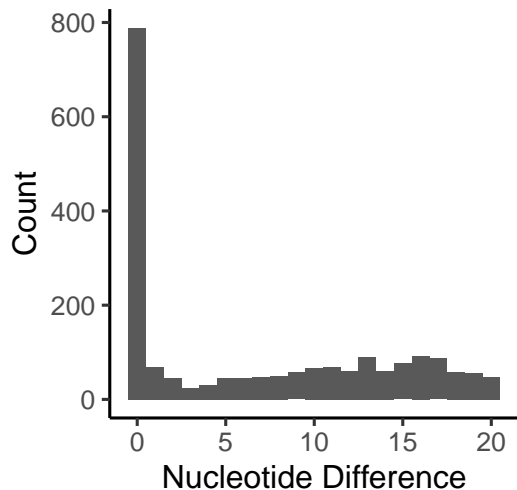
IGHV3-30-3*01

1628 sequences assigned
453 (27.8%) exact matches, in which:
453 unique CDR3
6 unique J



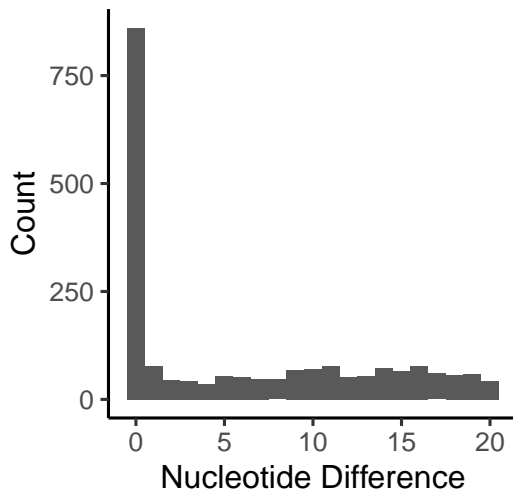
IGHV3–33*01

2445 sequences assigned
789 (32.3%) exact matches, in which:
687 unique CDR3
6 unique J



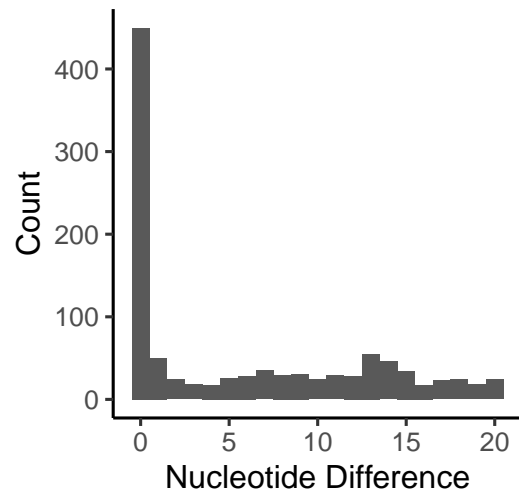
IGHV3–48*03

2399 sequences assigned
861 (35.9%) exact matches, in which:
854 unique CDR3
6 unique J



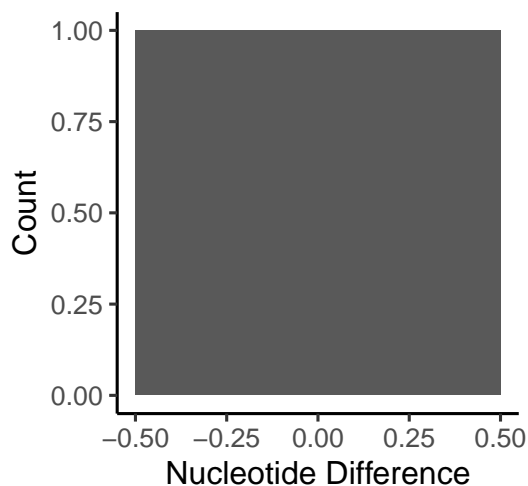
IGHV3–53*01_02

1340 sequences assigned
450 (33.6%) exact matches, in which:
439 unique CDR3
6 unique J



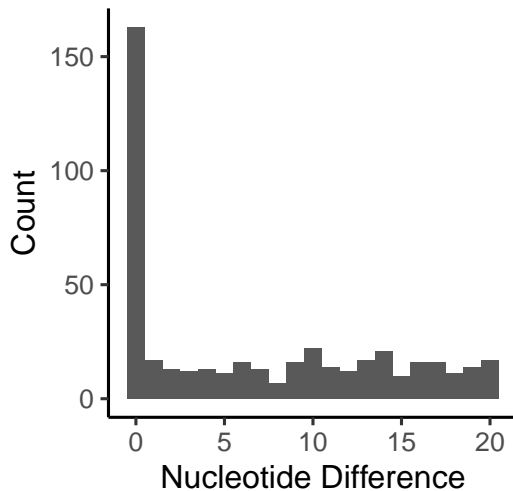
IGHV3–35*01

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



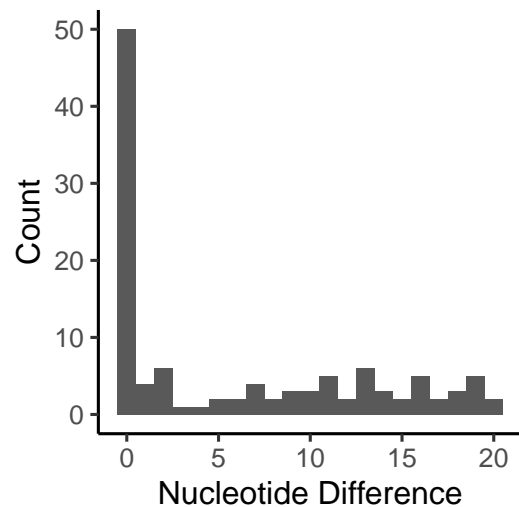
IGHV3–49*04

596 sequences assigned
163 (27.3%) exact matches, in which:
162 unique CDR3
6 unique J



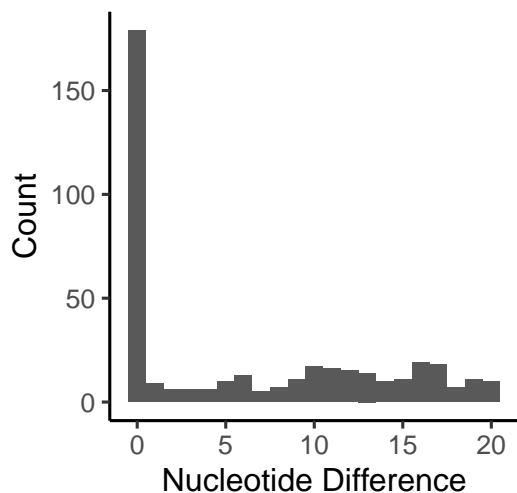
IGHV3–64*01

121 sequences assigned
50 (41.3%) exact matches, in which:
49 unique CDR3
5 unique J



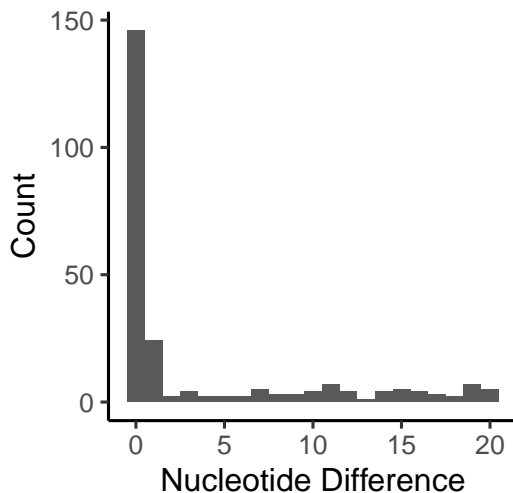
IGHV3–43*02

466 sequences assigned
179 (38.4%) exact matches, in which:
178 unique CDR3
6 unique J



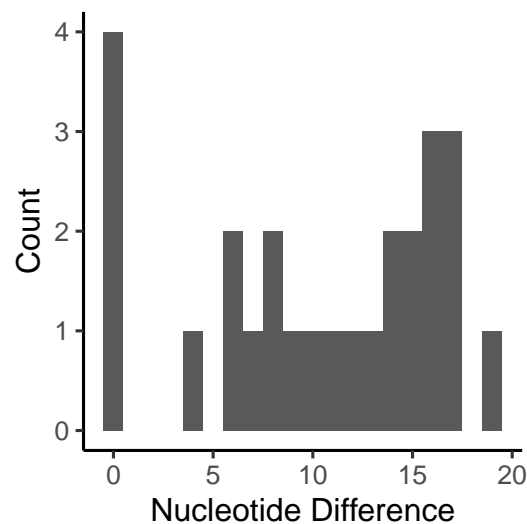
IGHV3–53*04

261 sequences assigned
146 (55.9%) exact matches, in which:
143 unique CDR3
6 unique J



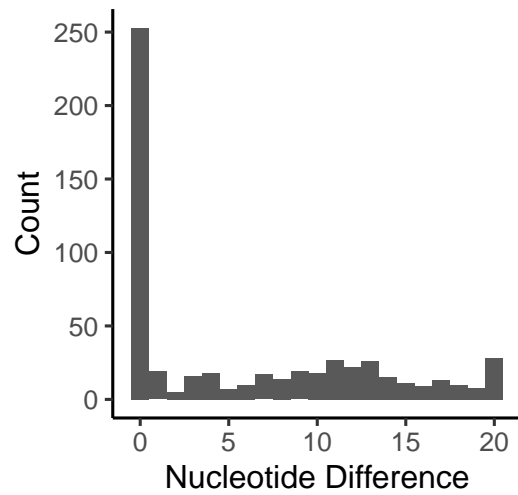
IGHV3–64*02_07

43 sequences assigned
4 (9.3%) exact matches, in which:
4 unique CDR3
3 unique J



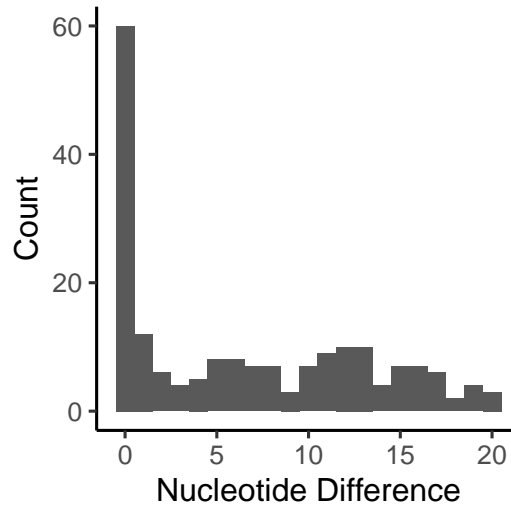
IGHV3-66*01

665 sequences assigned
253 (38%) exact matches, in which:
250 unique CDR3
6 unique J



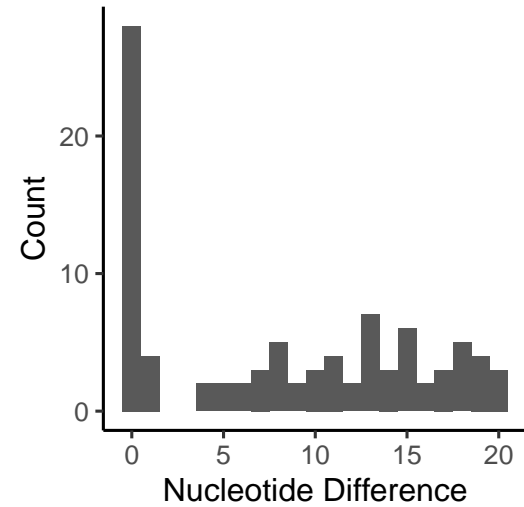
IGHV3-73*01_02

205 sequences assigned
60 (29.3%) exact matches, in which:
59 unique CDR3
6 unique J



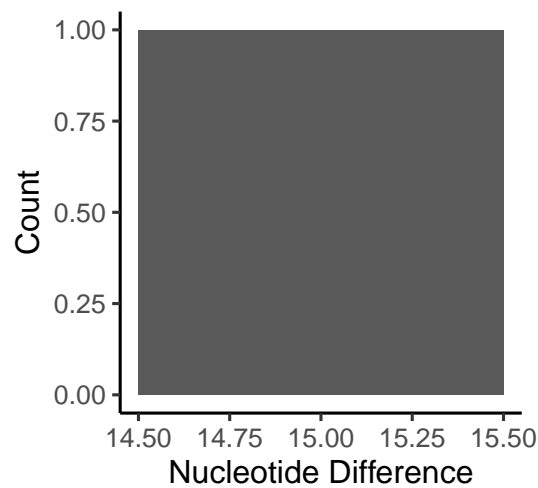
IGHV3-43D*04

94 sequences assigned
28 (29.8%) exact matches, in which:
28 unique CDR3
4 unique J



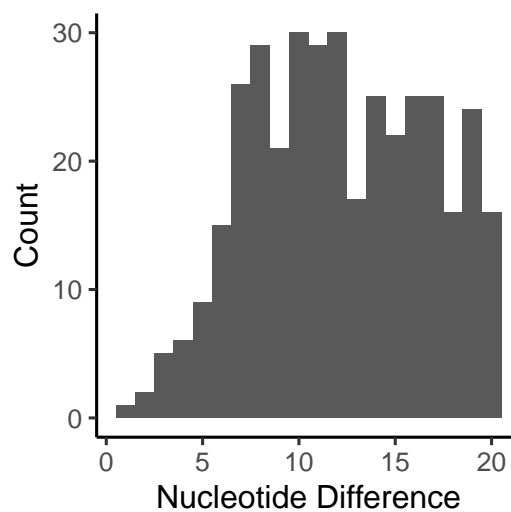
IGHV3-69-1*01

1 sequences assigned
No exact matches.



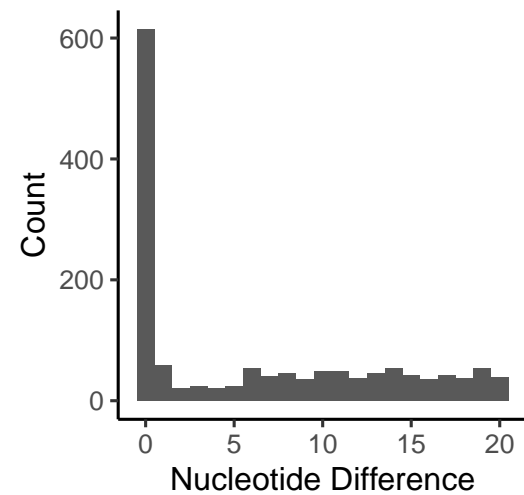
IGHV3-74*03

468 sequences assigned
No exact matches.



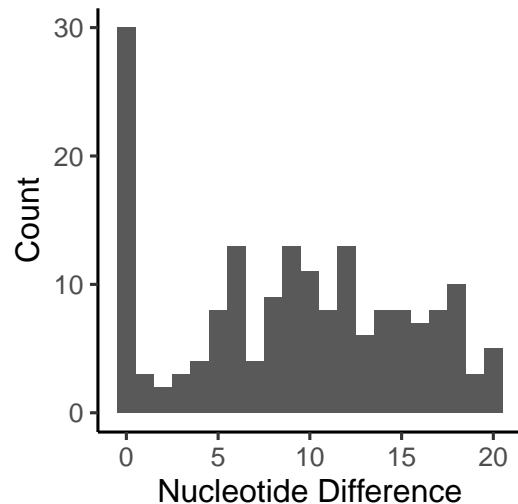
IGHV4-4*07

1829 sequences assigned
615 (33.6%) exact matches, in which:
534 unique CDR3
6 unique J



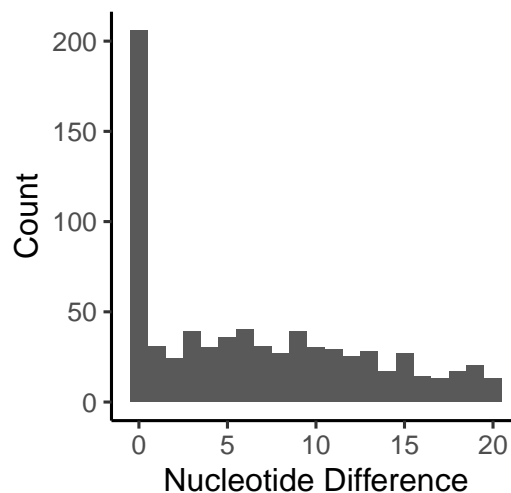
IGHV3-72*01

211 sequences assigned
30 (14.2%) exact matches, in which:
30 unique CDR3
5 unique J



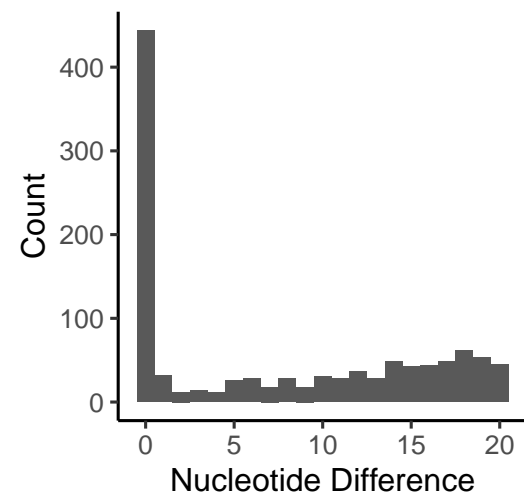
IGHV3-74*01_02

846 sequences assigned
206 (24.3%) exact matches, in which:
206 unique CDR3
6 unique J



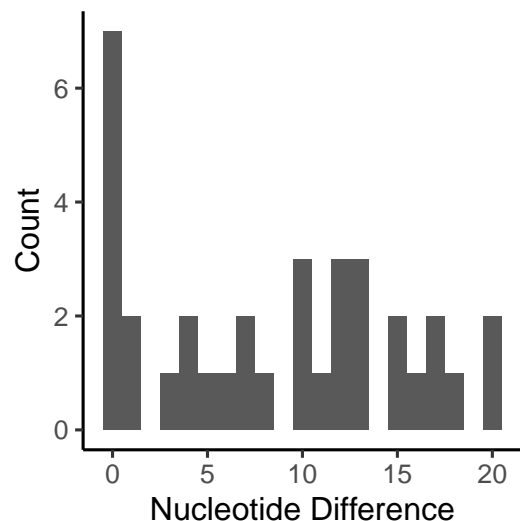
IGHV4-4*02_03

1379 sequences assigned
444 (32.2%) exact matches, in which:
411 unique CDR3
6 unique J



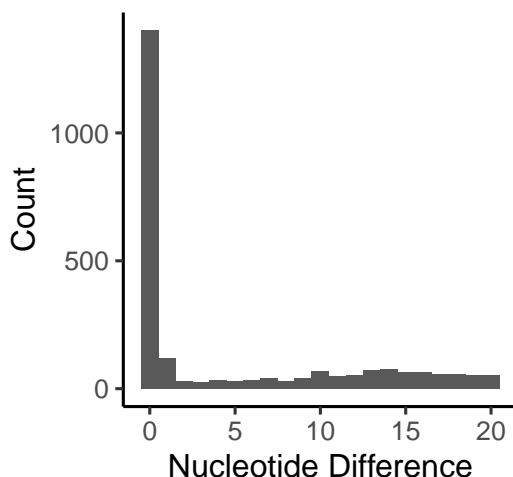
IGHV4-28*01_07

39 sequences assigned
7 (17.9%) exact matches, in which:
6 unique CDR3
3 unique J



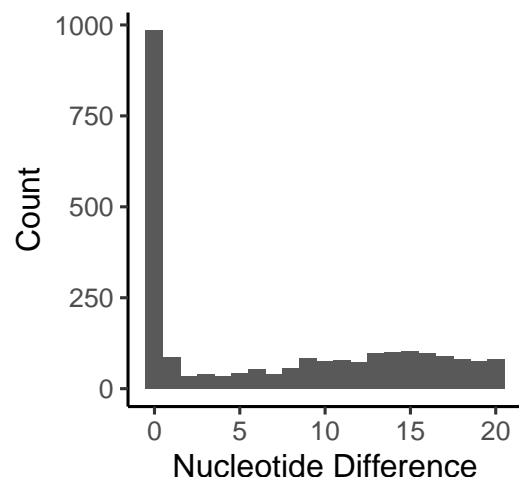
IGHV4-31*02

2842 sequences assigned
1401 (49.3%) exact matches, in which:
1248 unique CDR3
6 unique J



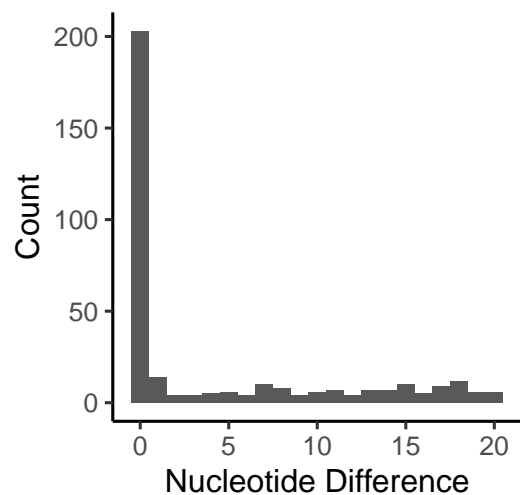
IGHV4-39*02_C258G

3153 sequences assigned
985 (31.2%) exact matches, in which:
909 unique CDR3
6 unique J



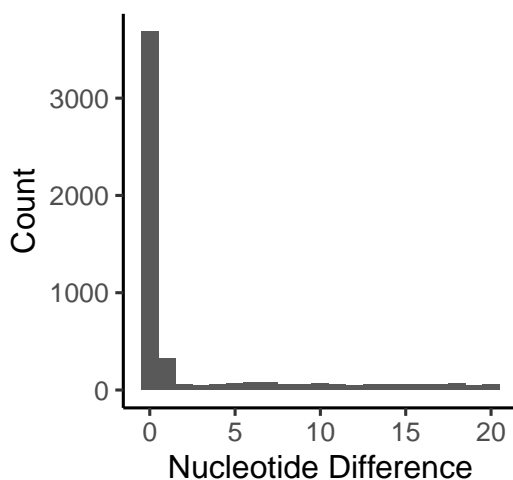
IGHV4-30-2*01

416 sequences assigned
203 (48.8%) exact matches, in which:
185 unique CDR3
6 unique J



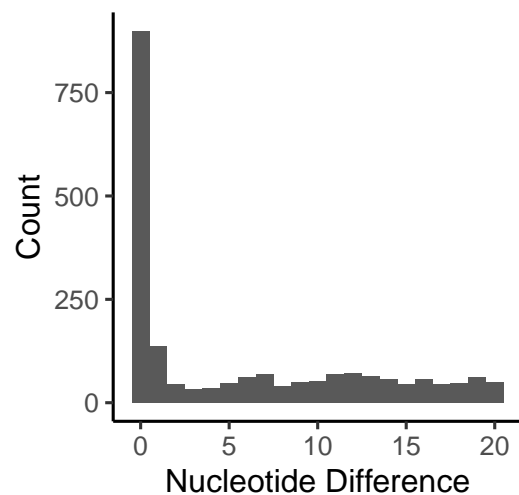
IGHV4-34*01_02

5653 sequences assigned
3683 (65.2%) exact matches, in which:
3379 unique CDR3
6 unique J



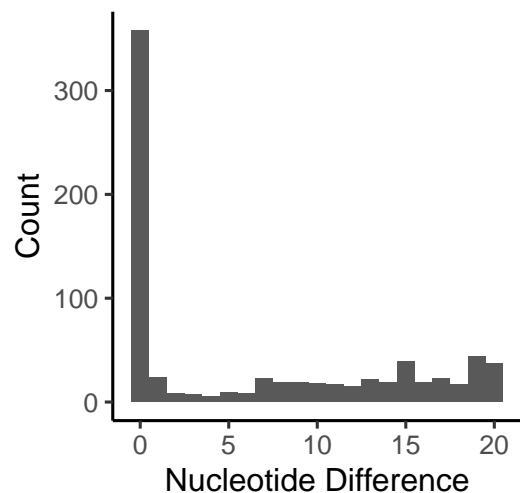
IGHV4-59*08

2421 sequences assigned
899 (37.1%) exact matches, in which:
792 unique CDR3
6 unique J



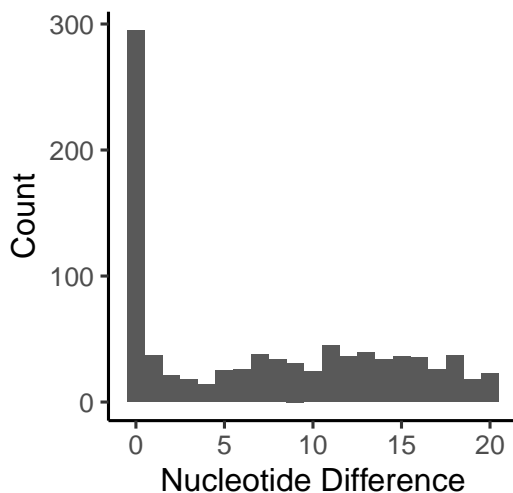
IGHV4-30-4*01

947 sequences assigned
358 (37.8%) exact matches, in which:
331 unique CDR3
6 unique J



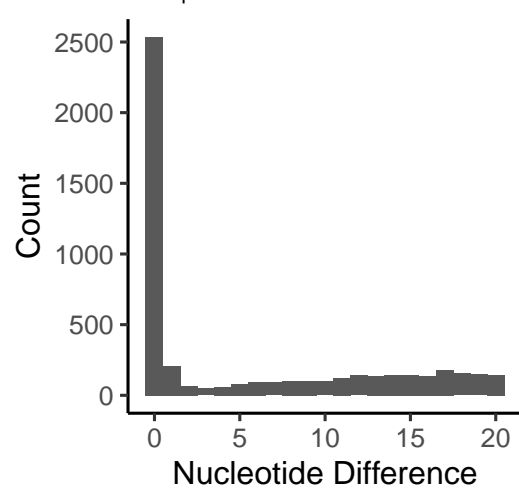
IGHV4-38-2*02_A70G

1138 sequences assigned
295 (25.9%) exact matches, in which:
279 unique CDR3
6 unique J



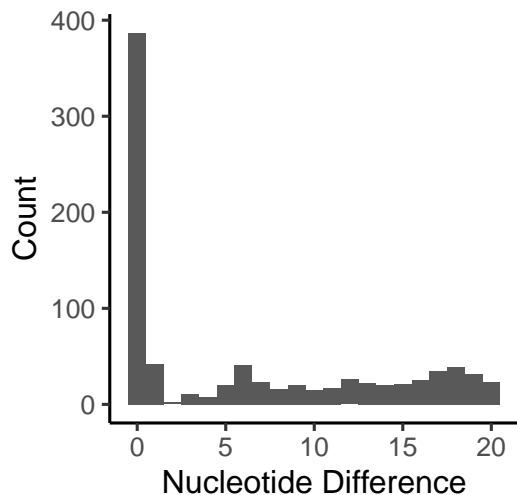
IGHV4-59*02_G88A

6533 sequences assigned
2535 (38.8%) exact matches, in which:
2223 unique CDR3
6 unique J



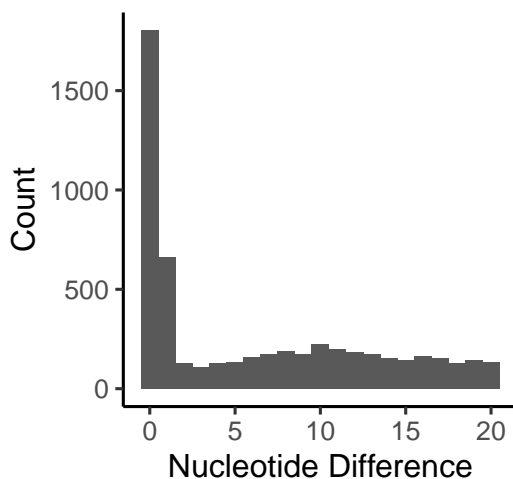
IGHV4–61*01

1113 sequences assigned
387 (34.8%) exact matches, in which:
341 unique CDR3
5 unique J



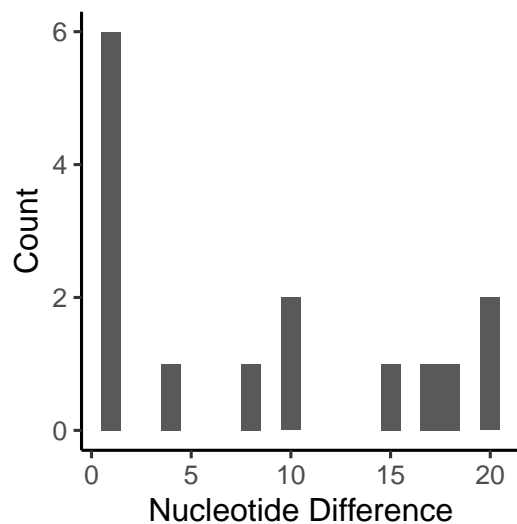
IGHV5–51*07_A128G

6174 sequences assigned
1803 (29.2%) exact matches, in which:
1707 unique CDR3
6 unique J



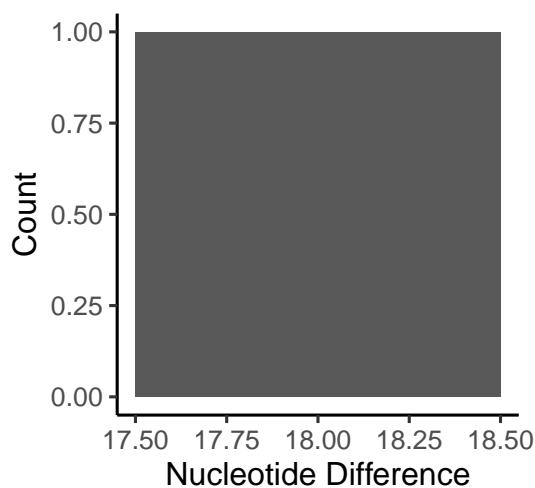
IGHV7–4–1*02

18 sequences assigned
No exact matches.



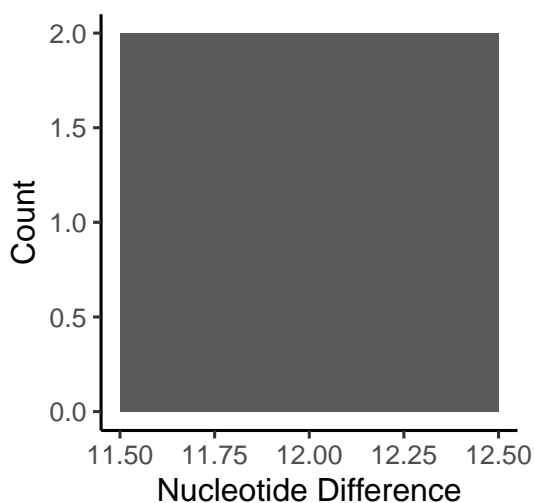
IGHV4/OR15–8*01

12 sequences assigned
No exact matches.



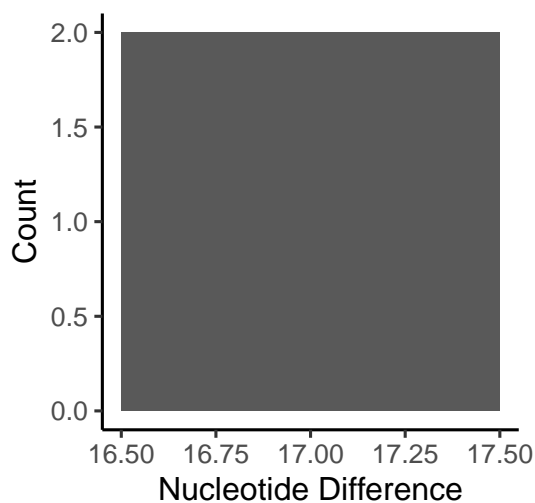
IGHV5–78*01

2 sequences assigned
No exact matches.



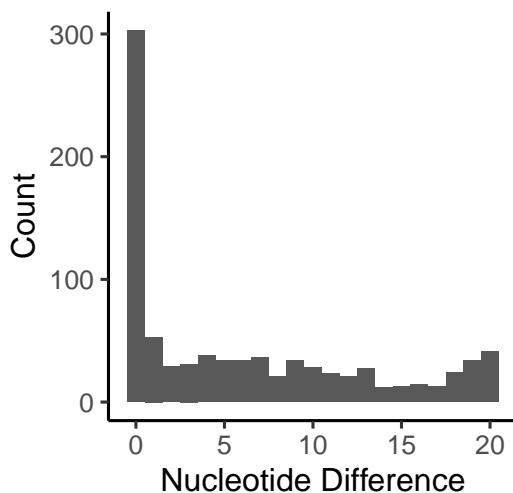
IGHV4/OR15–8*02

16 sequences assigned
No exact matches.



IGHV6–1*01_02

980 sequences assigned
303 (30.9%) exact matches, in which:
293 unique CDR3
6 unique J





Warning – no inferred sequences found.