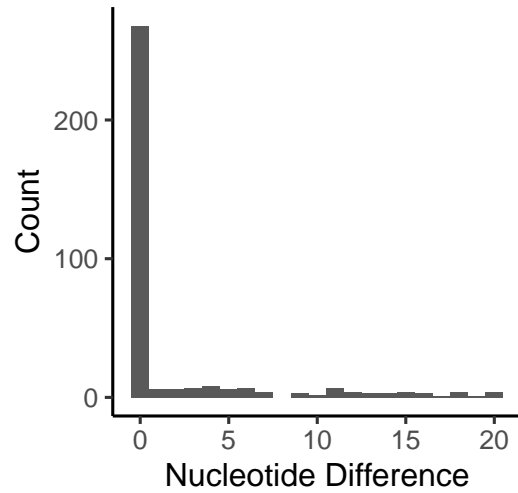


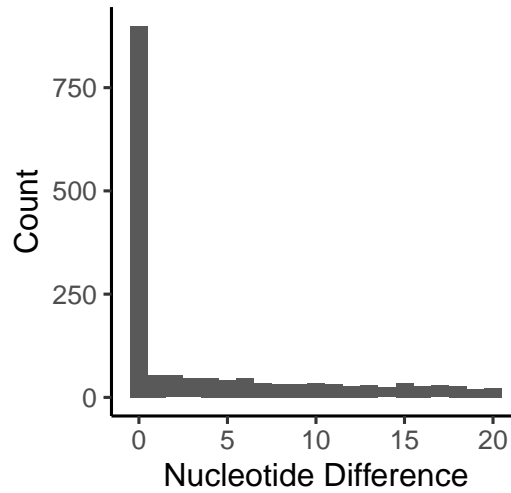
IGHV1-2*04

374 sequences assigned
268 (71.7%) exact matches, in which:
268 unique CDR3
5 unique J



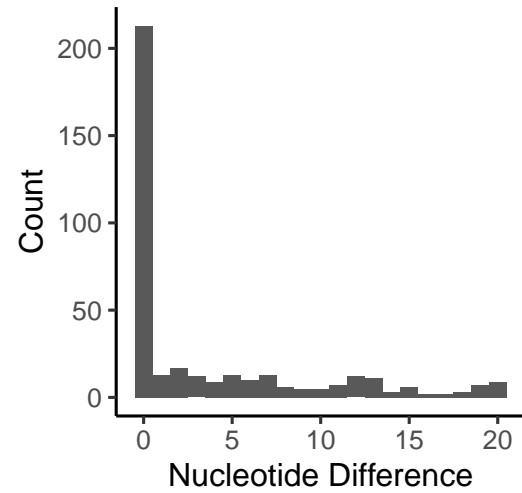
IGHV1-18*04

1948 sequences assigned
900 (46.2%) exact matches, in which:
899 unique CDR3
6 unique J



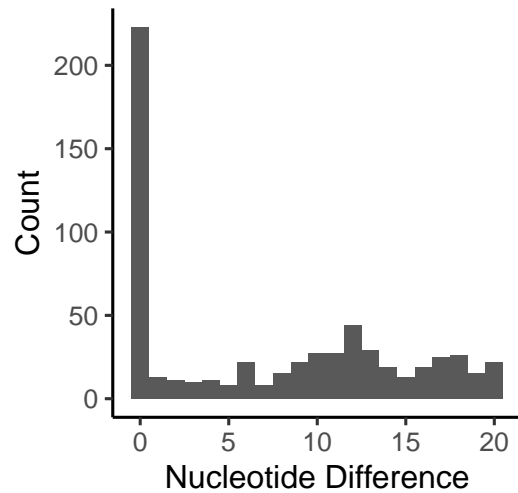
IGHV1-46*01

468 sequences assigned
213 (45.5%) exact matches, in which:
213 unique CDR3
6 unique J



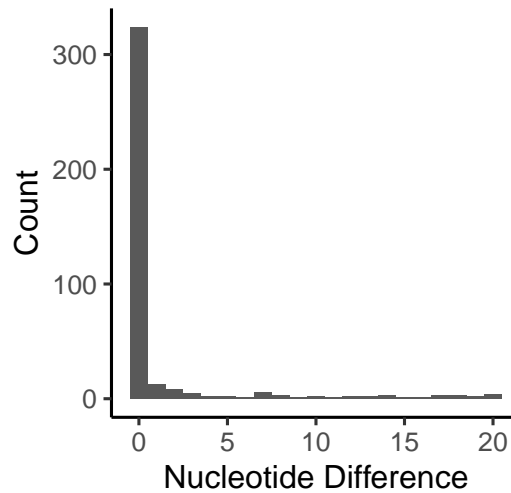
IGHV1-3*01_05

710 sequences assigned
223 (31.4%) exact matches, in which:
223 unique CDR3
6 unique J



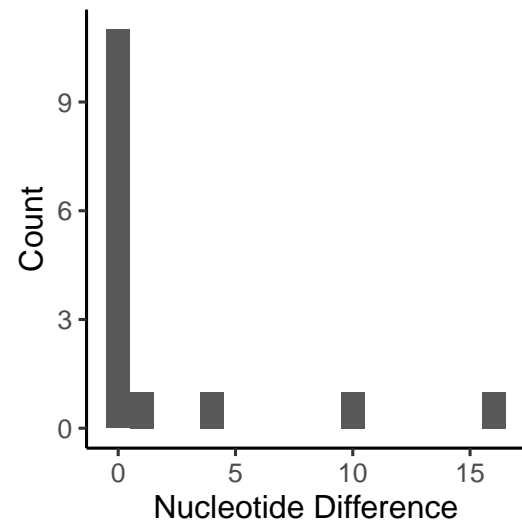
IGHV1-24*01

399 sequences assigned
324 (81.2%) exact matches, in which:
324 unique CDR3
6 unique J



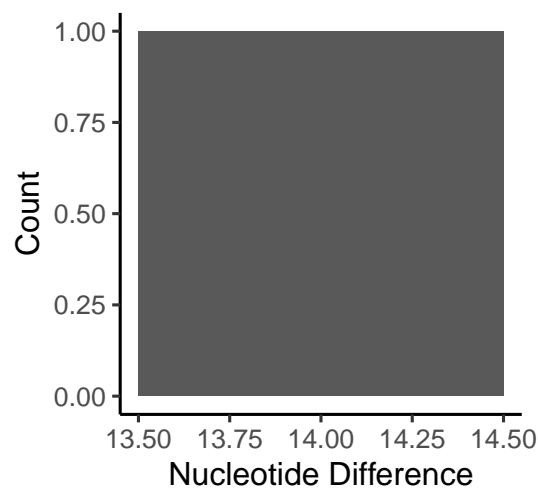
IGHV1-58*02

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
3 unique J



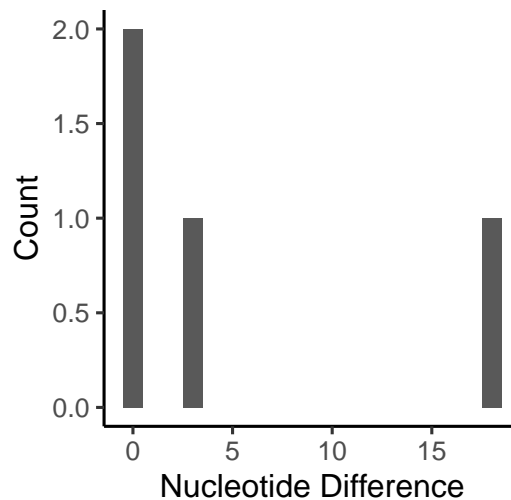
IGHV1-8*01

1 sequences assigned
No exact matches.



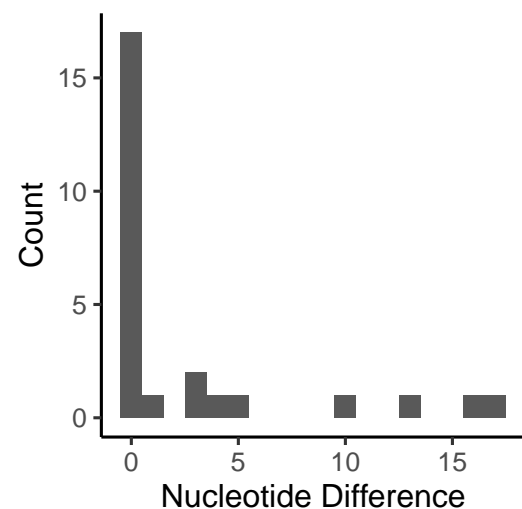
IGHV1-45*02

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



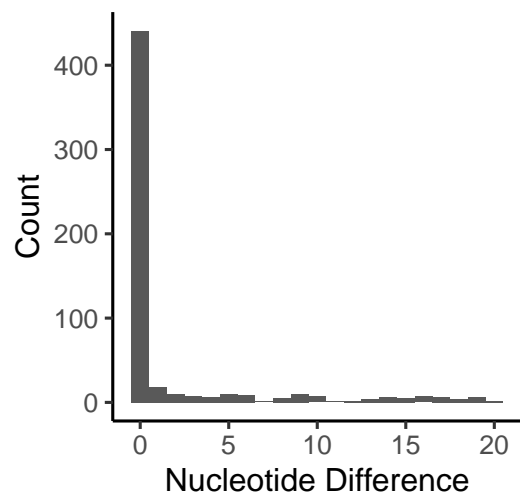
IGHV1-58*01_03

29 sequences assigned
17 (58.6%) exact matches, in which:
17 unique CDR3
4 unique J



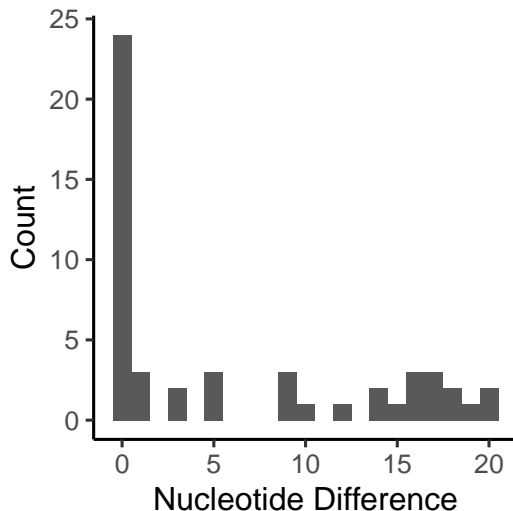
IGHV1-69*01_12_13

606 sequences assigned
441 (72.8%) exact matches, in which:
441 unique CDR3
6 unique J



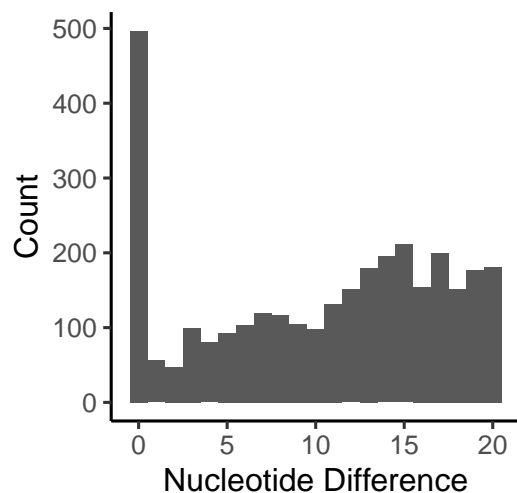
IGHV2-26*01

52 sequences assigned
24 (46.2%) exact matches, in which:
24 unique CDR3
5 unique J



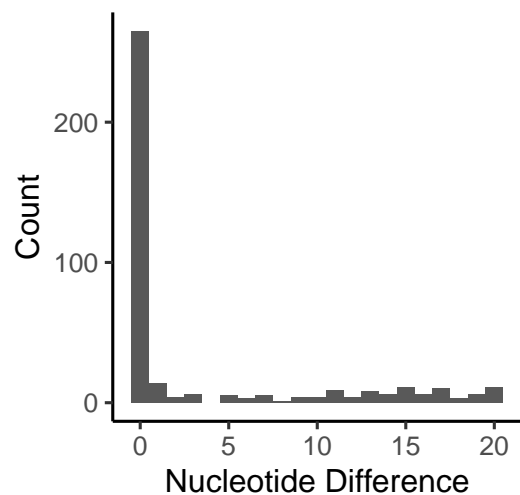
IGHV3-7*03

4262 sequences assigned
497 (11.7%) exact matches, in which:
489 unique CDR3
6 unique J



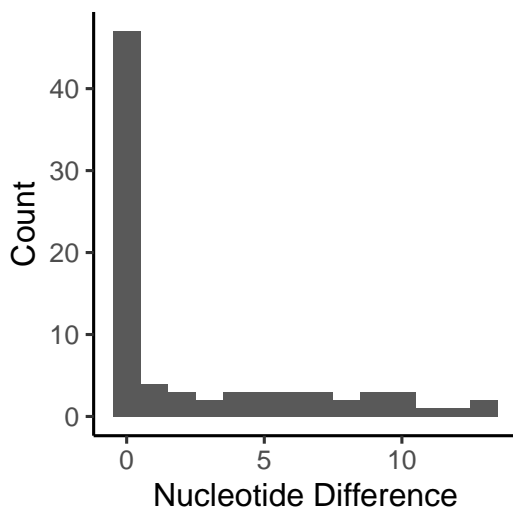
IGHV1-69*04_09

460 sequences assigned
265 (57.6%) exact matches, in which:
264 unique CDR3
6 unique J



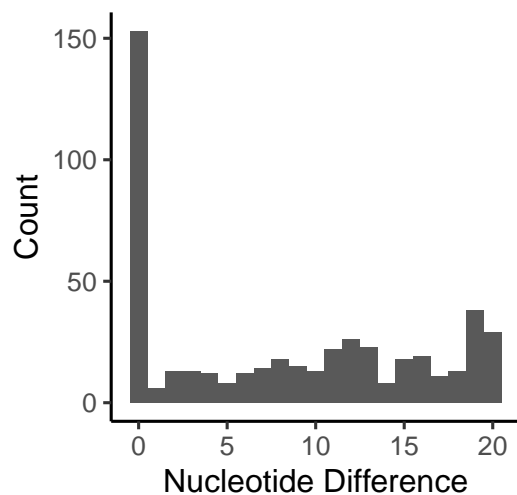
IGHV2-70*01

85 sequences assigned
47 (55.3%) exact matches, in which:
46 unique CDR3
6 unique J



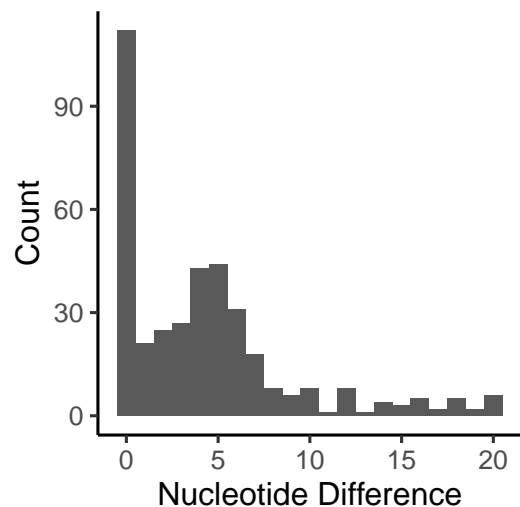
IGHV3-11*06

660 sequences assigned
153 (23.2%) exact matches, in which:
148 unique CDR3
6 unique J



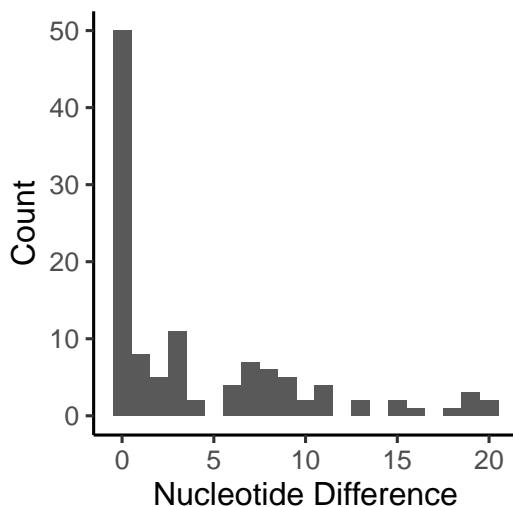
IGHV2-5*02

396 sequences assigned
112 (28.3%) exact matches, in which:
110 unique CDR3
6 unique J



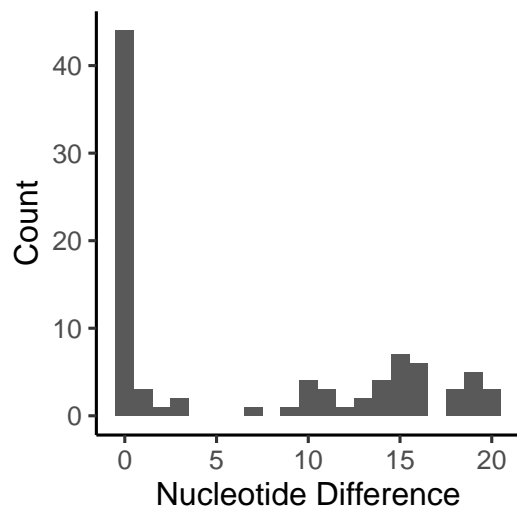
IGHV2-70*11_15

123 sequences assigned
50 (40.7%) exact matches, in which:
49 unique CDR3
5 unique J



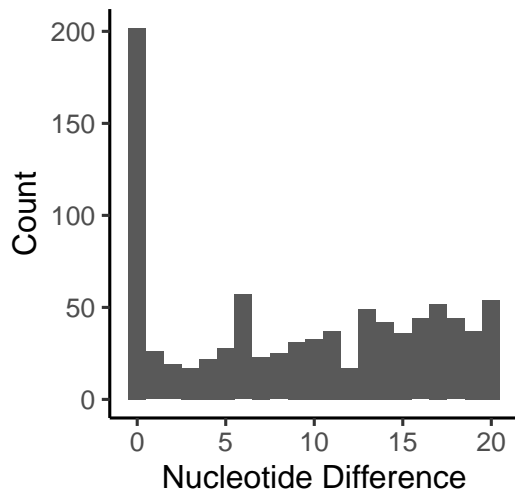
IGHV3-13*05

111 sequences assigned
44 (39.6%) exact matches, in which:
42 unique CDR3
5 unique J



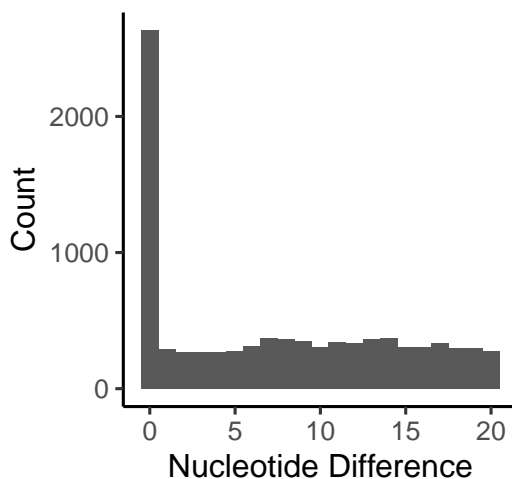
IGHV3-15*01_02

1280 sequences assigned
202 (15.8%) exact matches, in which:
196 unique CDR3
6 unique J



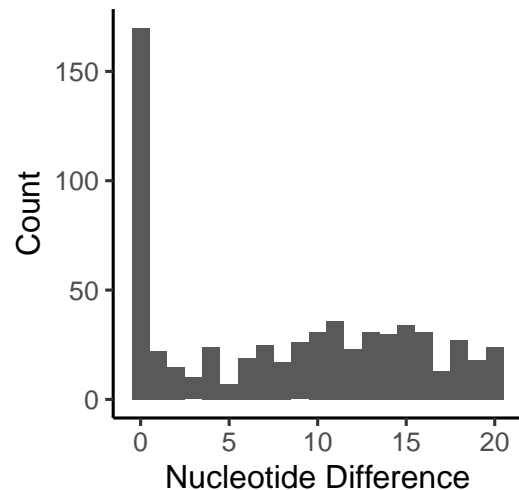
IGHV3-23*01_04

11215 sequences assigned
2632 (23.5%) exact matches, in which:
2574 unique CDR3
6 unique J



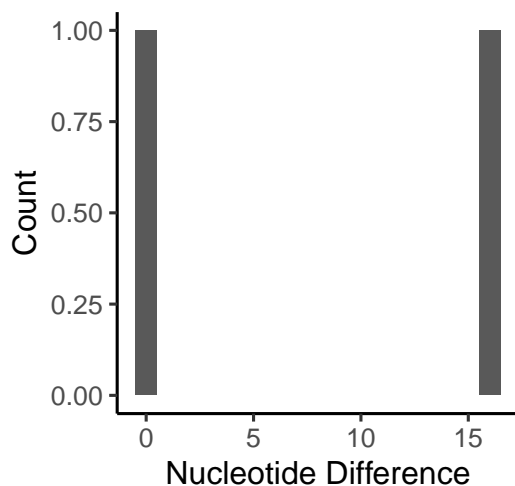
IGHV3-33*01

790 sequences assigned
170 (21.5%) exact matches, in which:
164 unique CDR3
6 unique J



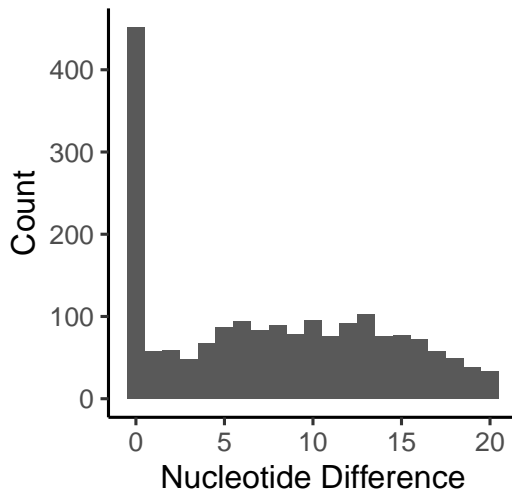
IGHV3-20*01_02

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



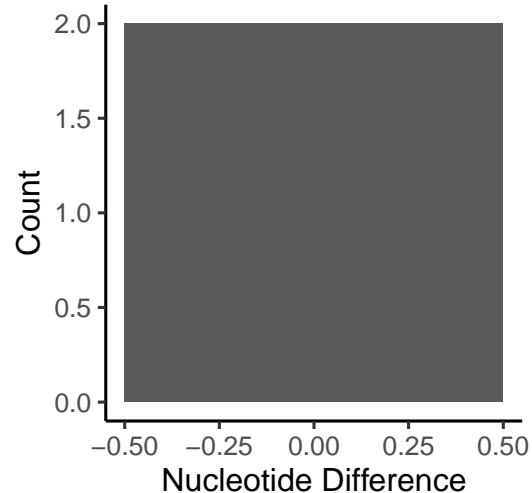
IGHV3-30-3*01

2076 sequences assigned
452 (21.8%) exact matches, in which:
446 unique CDR3
6 unique J



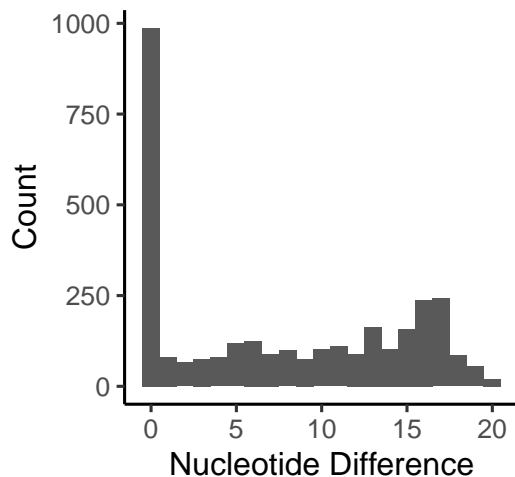
IGHV3-38-3*01

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



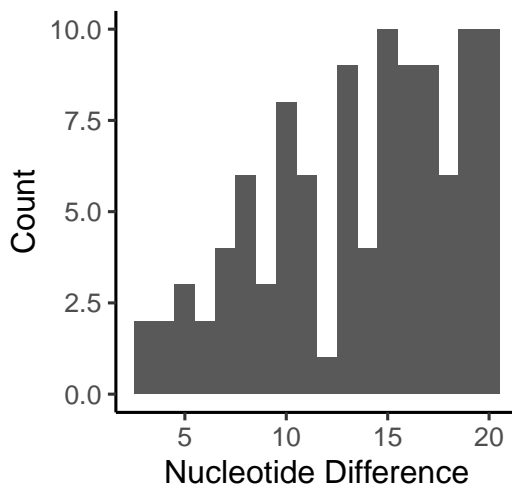
IGHV3-21*01_02

3334 sequences assigned
987 (29.6%) exact matches, in which:
946 unique CDR3
6 unique J



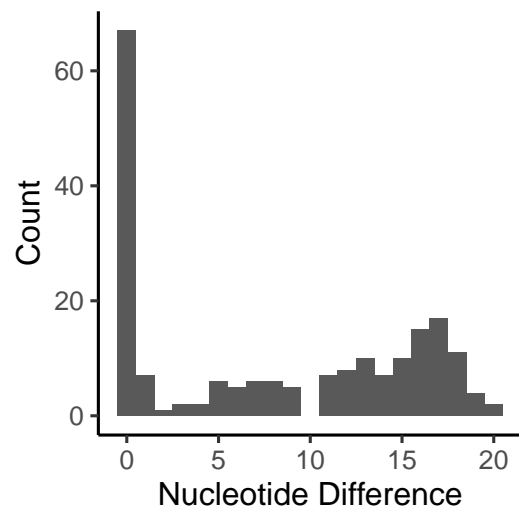
IGHV3-30*04

139 sequences assigned
No exact matches.



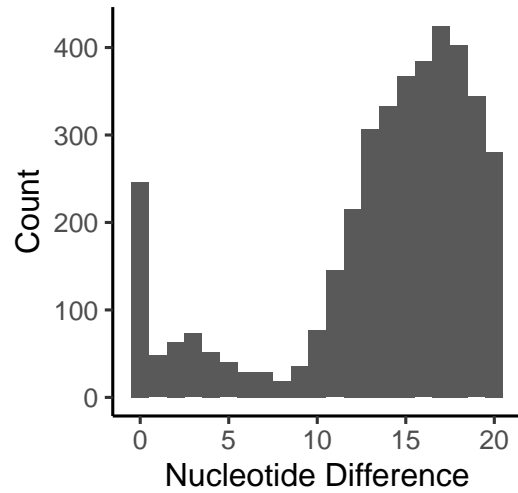
IGHV3-43*01

216 sequences assigned
67 (31%) exact matches, in which:
65 unique CDR3
5 unique J



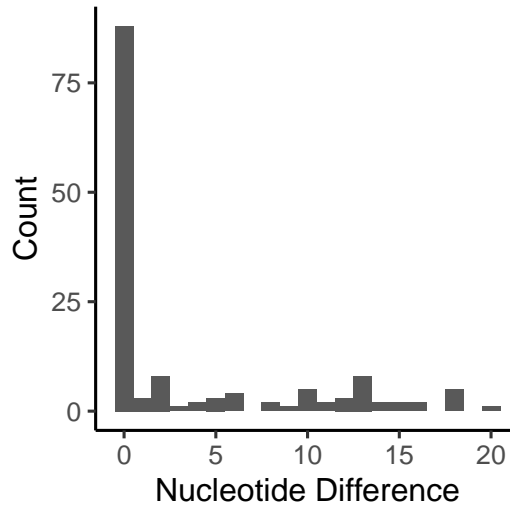
IGHV3-48*02

5241 sequences assigned
246 (4.7%) exact matches, in which:
235 unique CDR3
6 unique J



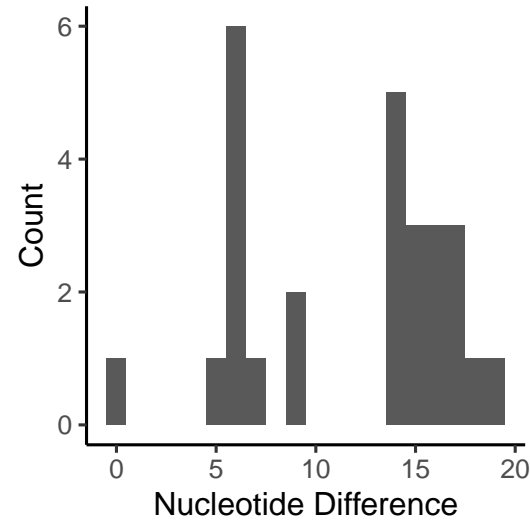
IGHV3-53*04

198 sequences assigned
88 (44.4%) exact matches, in which:
86 unique CDR3
6 unique J



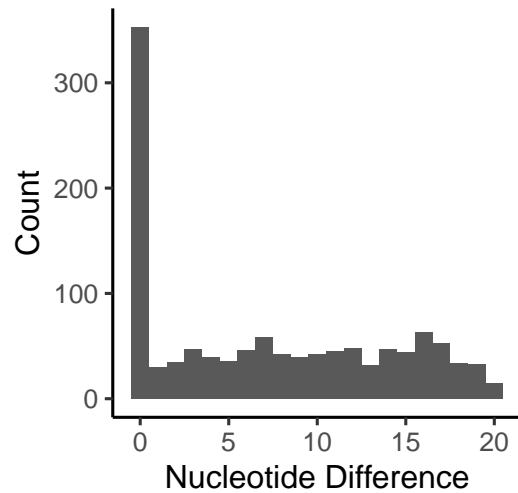
IGHV3-64*02_07

32 sequences assigned
1 (3.1%) exact matches, in which:
1 unique CDR3
1 unique J



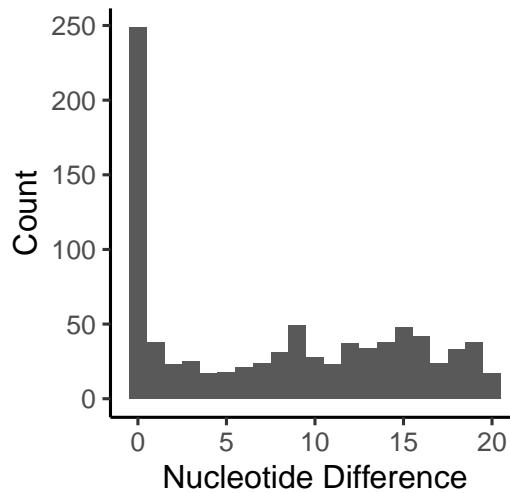
IGHV3-48*04

1364 sequences assigned
353 (25.9%) exact matches, in which:
340 unique CDR3
6 unique J



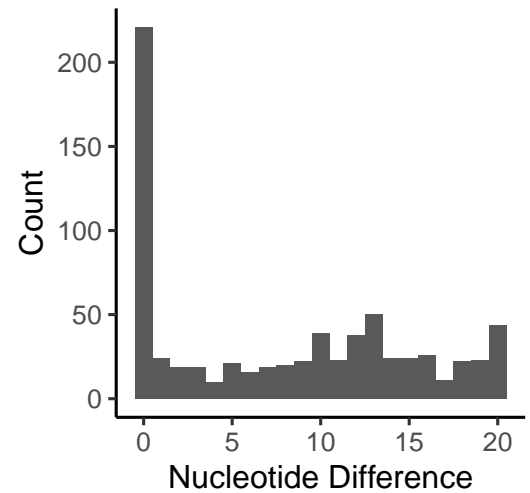
IGHV3-53*01_02

954 sequences assigned
249 (26.1%) exact matches, in which:
245 unique CDR3
6 unique J



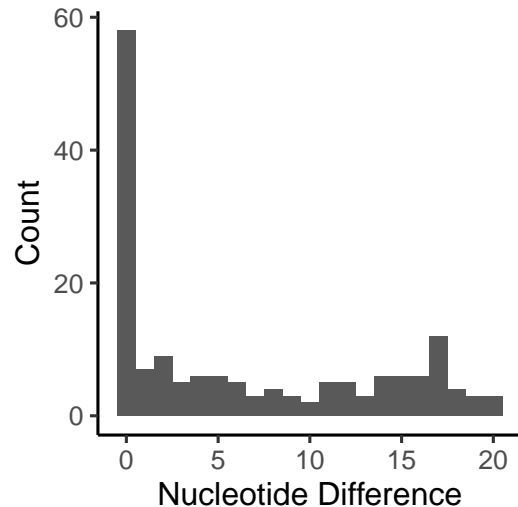
IGHV3-66*01

928 sequences assigned
221 (23.8%) exact matches, in which:
216 unique CDR3
6 unique J



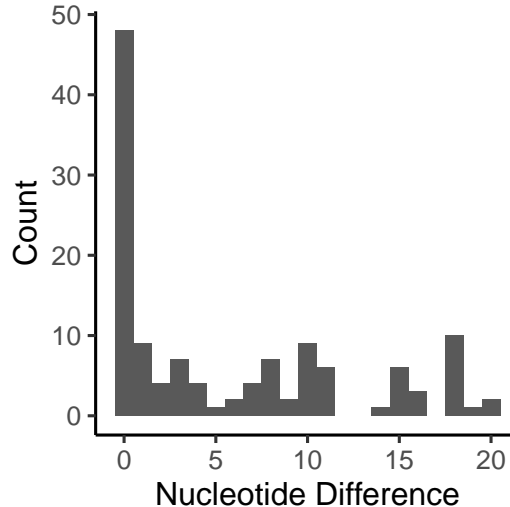
IGHV3-49*03_05

183 sequences assigned
58 (31.7%) exact matches, in which:
57 unique CDR3
5 unique J



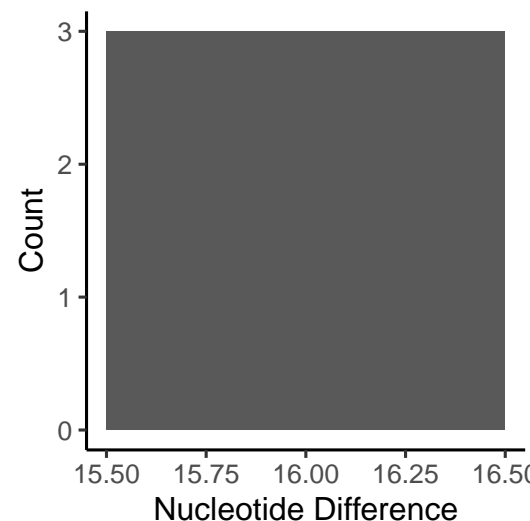
IGHV3-64*01

154 sequences assigned
48 (31.2%) exact matches, in which:
47 unique CDR3
5 unique J



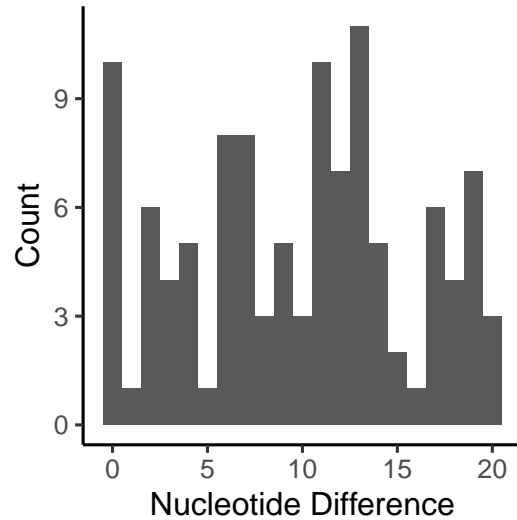
IGHV3-69-1*02

6 sequences assigned
No exact matches.



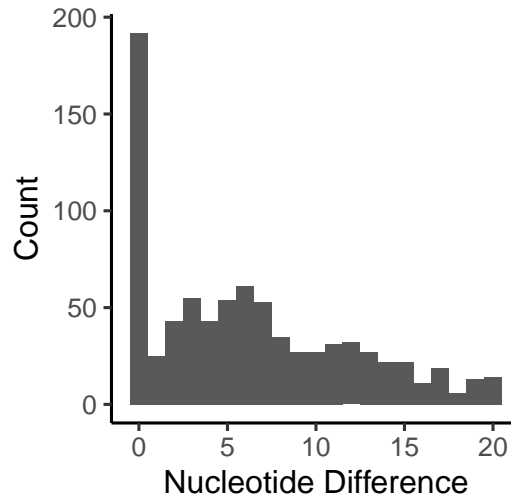
IGHV3-72*01

137 sequences assigned
10 (7.3%) exact matches, in which:
10 unique CDR3
4 unique J



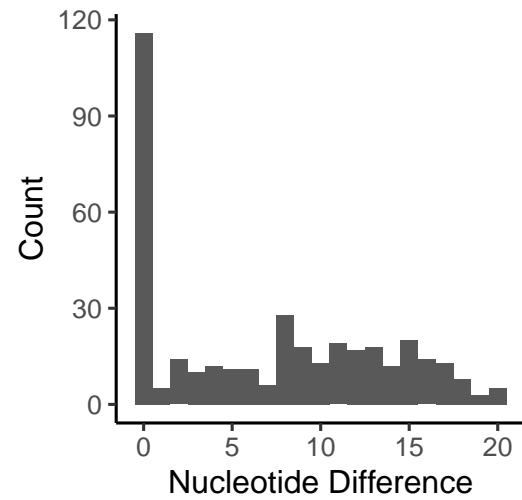
IGHV3-74*01_02

857 sequences assigned
192 (22.4%) exact matches, in which:
179 unique CDR3
6 unique J



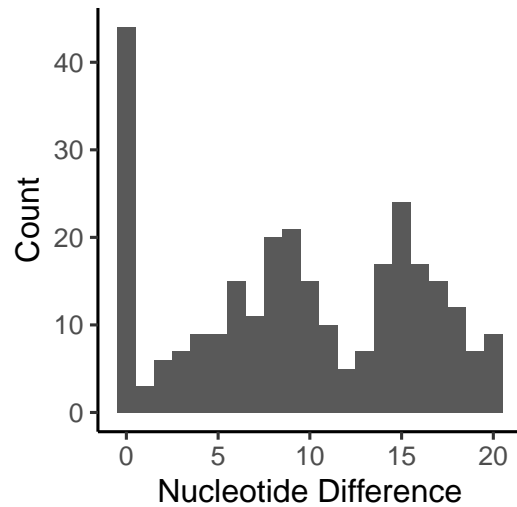
IGHV3-64D*09

415 sequences assigned
116 (28%) exact matches, in which:
115 unique CDR3
5 unique J



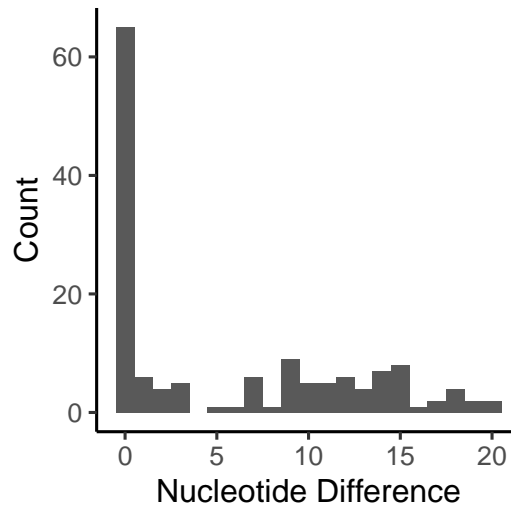
IGHV3-73*01_02

290 sequences assigned
44 (15.2%) exact matches, in which:
44 unique CDR3
4 unique J



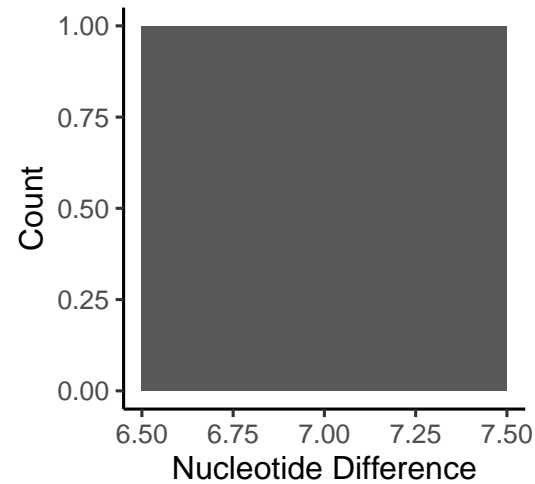
IGHV3-43D*03

153 sequences assigned
65 (42.5%) exact matches, in which:
62 unique CDR3
5 unique J



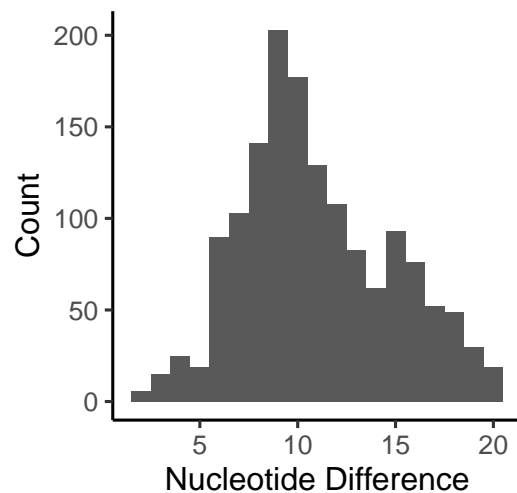
IGHV3-NL1*01

3 sequences assigned
No exact matches.



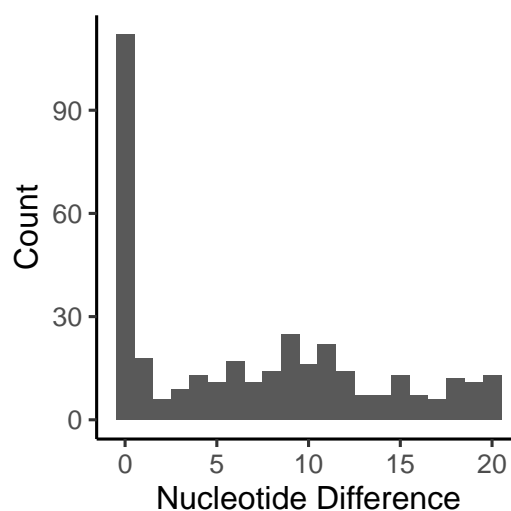
IGHV3-74*03

1558 sequences assigned
No exact matches.



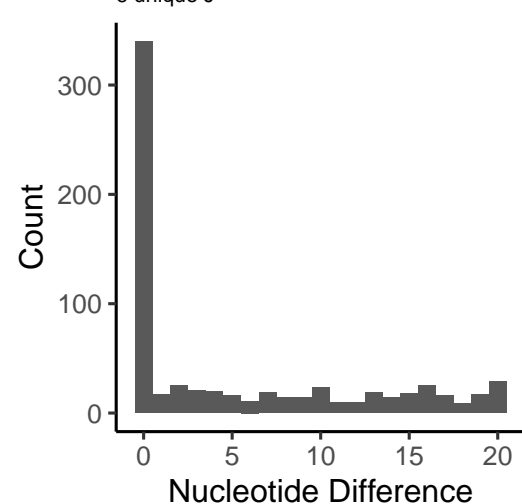
IGHV3-64D*06

605 sequences assigned
112 (18.5%) exact matches, in which:
111 unique CDR3
6 unique J



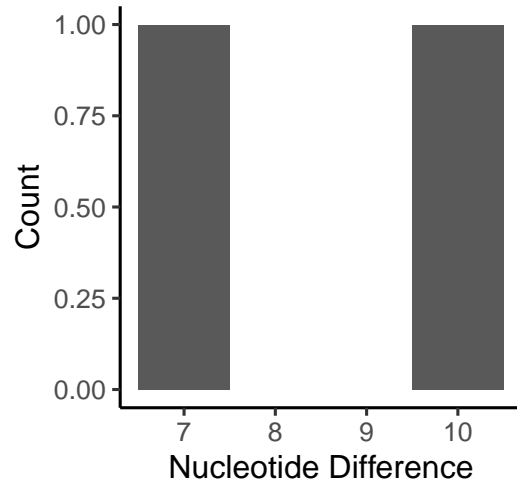
IGHV4-4*02_03

812 sequences assigned
340 (41.9%) exact matches, in which:
332 unique CDR3
6 unique J



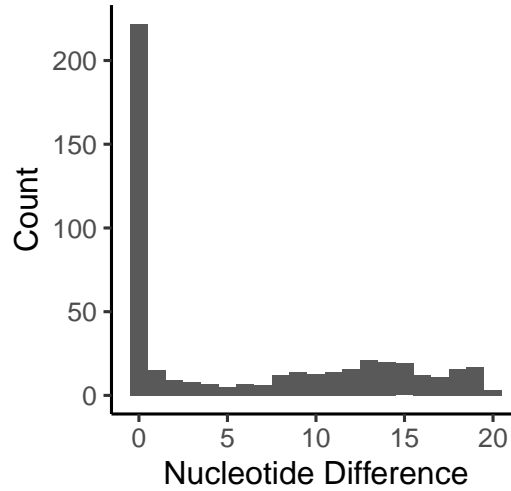
IGHV4-28*03

2 sequences assigned
No exact matches.



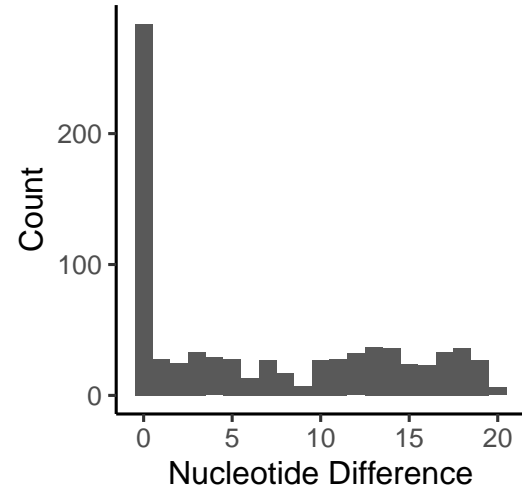
IGHV4-30-2*01

551 sequences assigned
222 (40.3%) exact matches, in which:
218 unique CDR3
6 unique J



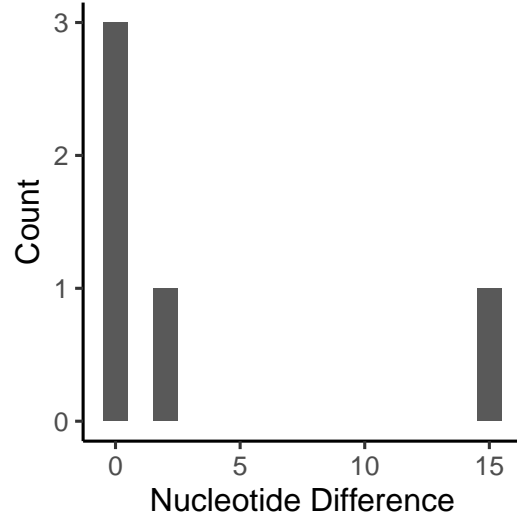
IGHV4-38-2*02

943 sequences assigned
284 (30.1%) exact matches, in which:
280 unique CDR3
6 unique J



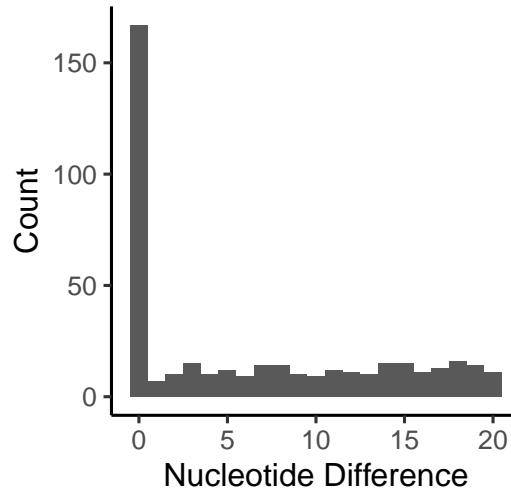
IGHV4-28*01_07

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



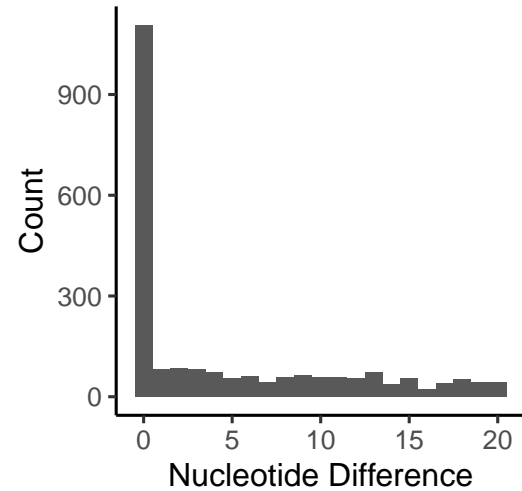
IGHV4-31*02

495 sequences assigned
167 (33.7%) exact matches, in which:
165 unique CDR3
6 unique J



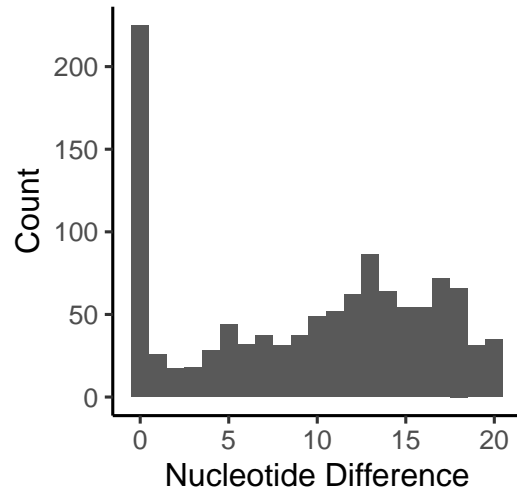
IGHV4-39*07

2642 sequences assigned
1107 (41.9%) exact matches, in which:
1089 unique CDR3
6 unique J



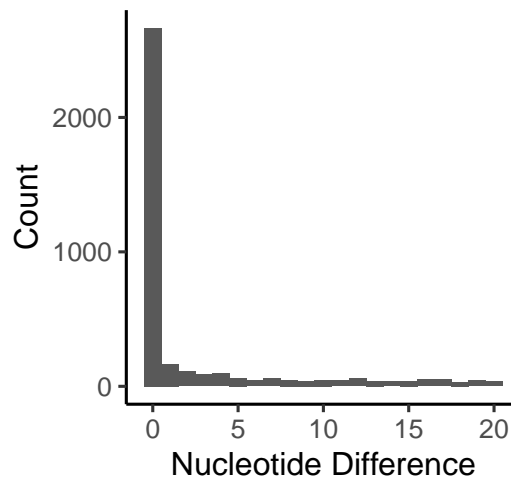
IGHV4-30-4*01

1218 sequences assigned
225 (18.5%) exact matches, in which:
223 unique CDR3
6 unique J



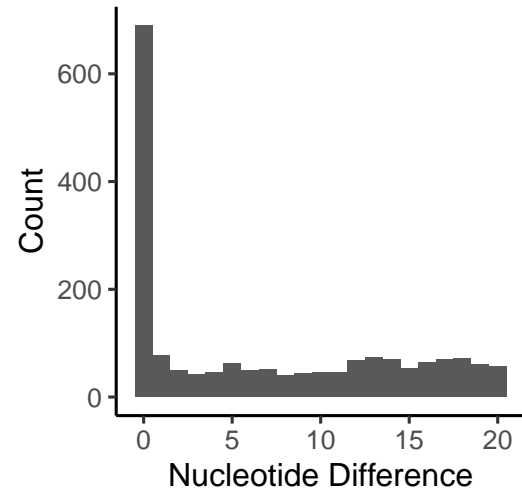
IGHV4-34*01_02

4329 sequences assigned
2665 (61.6%) exact matches, in which:
2619 unique CDR3
6 unique J



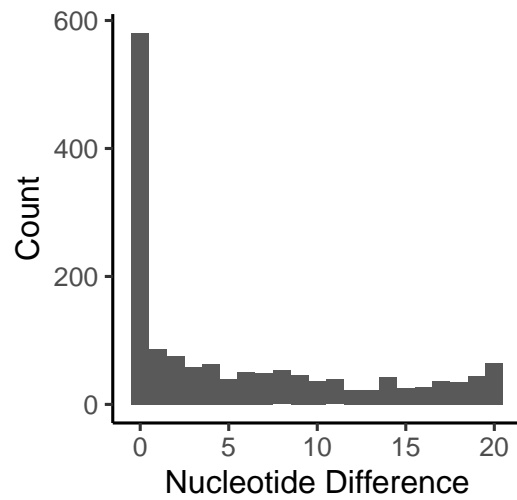
IGHV4-39*02_C258G

2270 sequences assigned
690 (30.4%) exact matches, in which:
673 unique CDR3
6 unique J



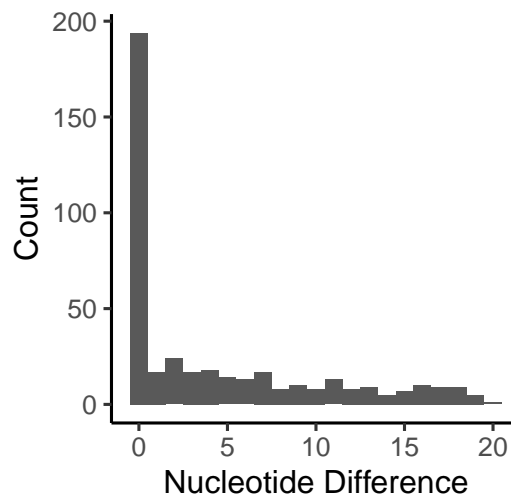
IGHV4–59*08

1960 sequences assigned
581 (29.6%) exact matches, in which:
563 unique CDR3
6 unique J



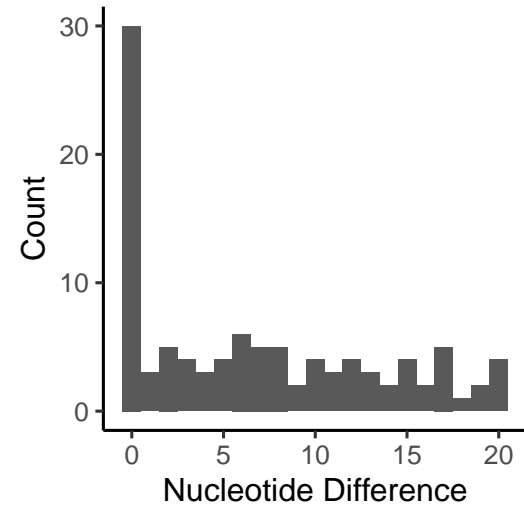
IGHV4–61*01

489 sequences assigned
194 (39.7%) exact matches, in which:
190 unique CDR3
6 unique J



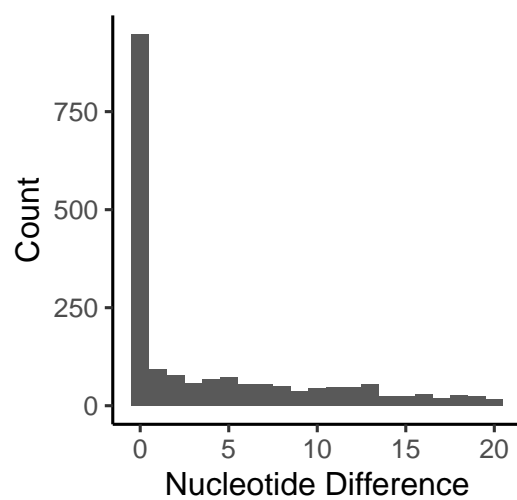
IGHV5–10–1*01_03

115 sequences assigned
30 (26.1%) exact matches, in which:
30 unique CDR3
5 unique J



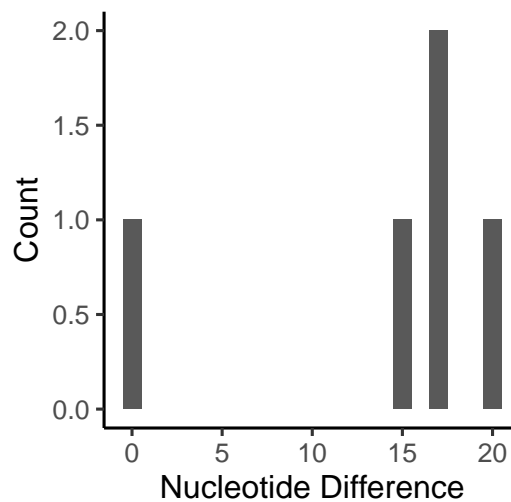
IGHV4–59*01_07

2036 sequences assigned
948 (46.6%) exact matches, in which:
927 unique CDR3
6 unique J



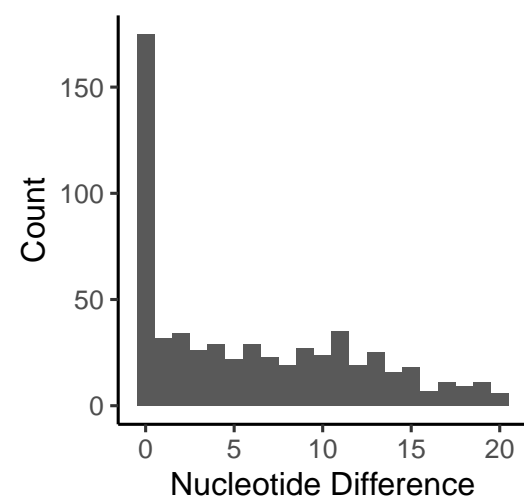
IGHV4/OR15–8*01

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



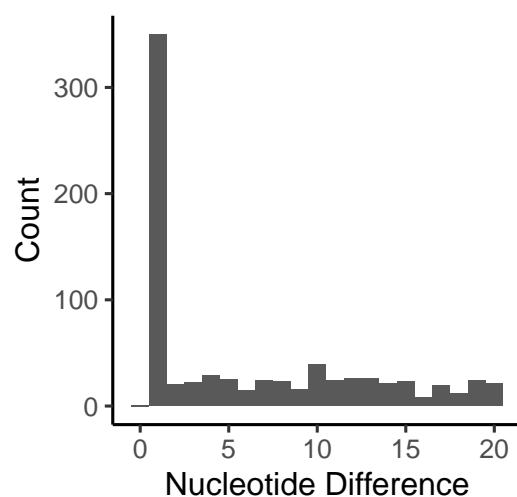
IGHV5–51*07_A128G

626 sequences assigned
175 (28%) exact matches, in which:
175 unique CDR3
6 unique J



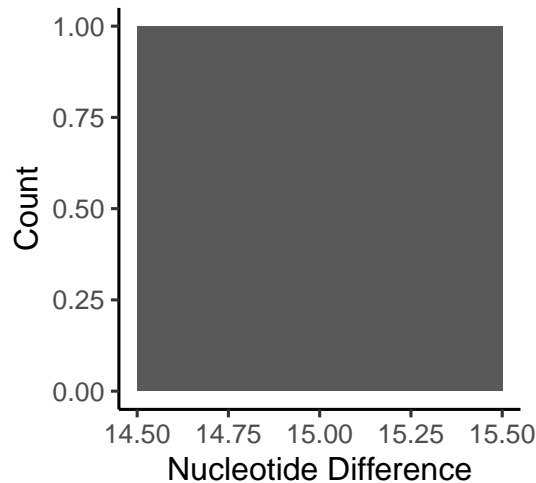
IGHV4–59*11

894 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



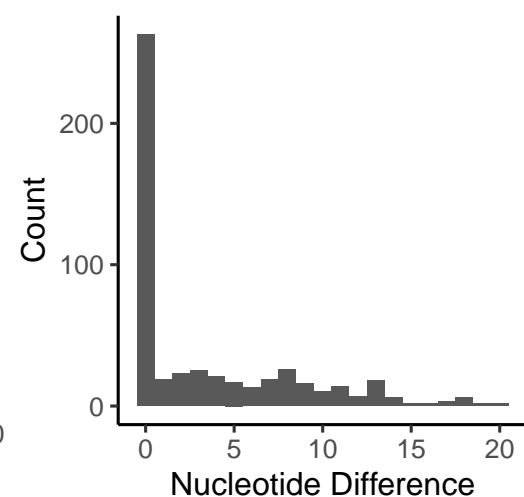
IGHV4/OR15–8*02

14 sequences assigned
No exact matches.



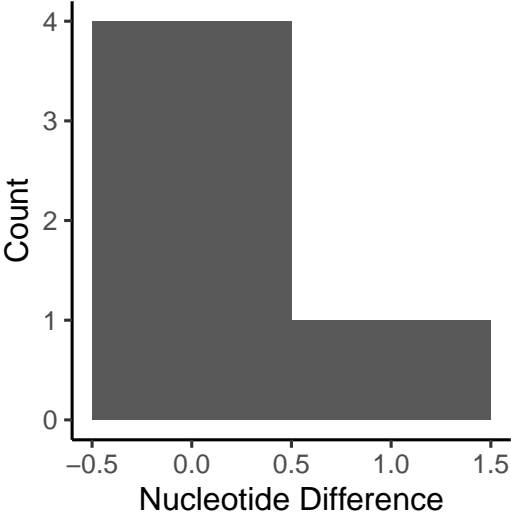
IGHV6–1*01_02

529 sequences assigned
263 (49.7%) exact matches, in which:
262 unique CDR3
6 unique J



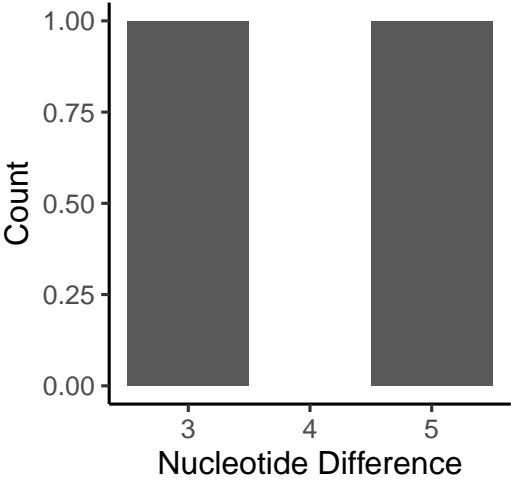
IGHV7-4-1*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
2 unique J



IGHV7-4-1*02

2 sequences assigned
No exact matches.





Warning – no inferred sequences found.