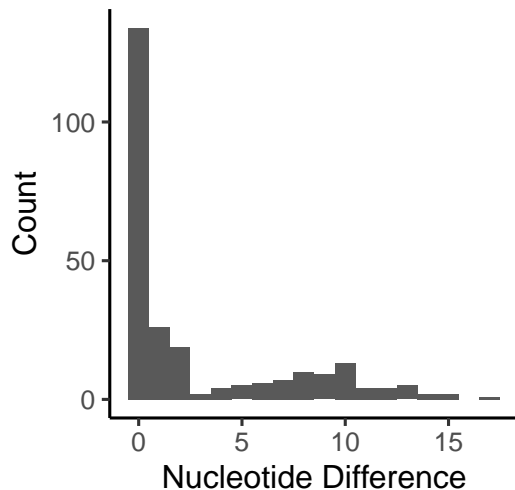


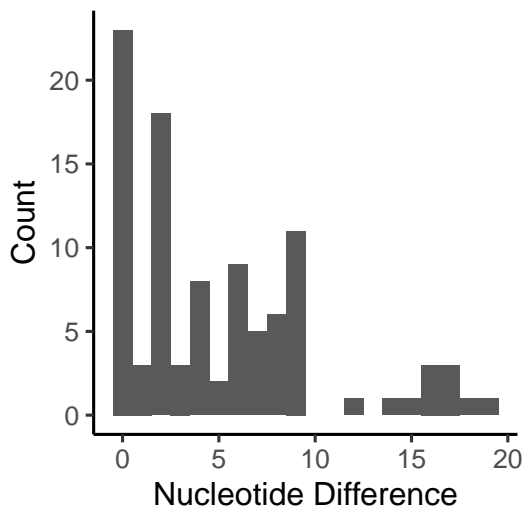
IGHV1-2*04

257 sequences assigned
134 (52.1%) exact matches, in which:
131 unique CDR3
6 unique J



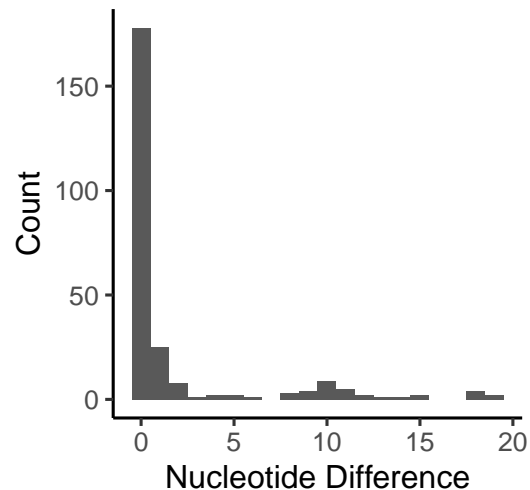
IGHV1-3*01_05_A291G_

101 sequences assigned
23 (22.8%) exact matches, in which:
23 unique CDR3
5 unique J



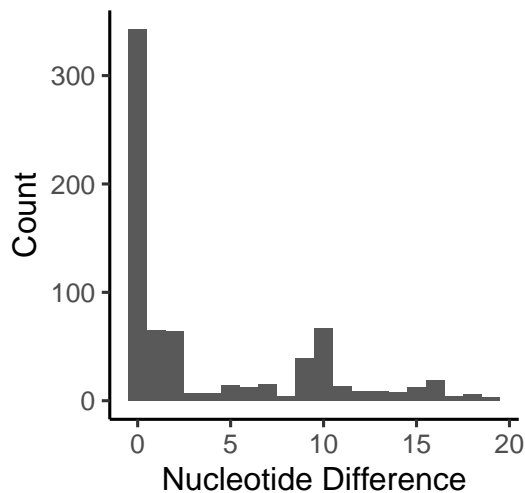
IGHV1-24*01

254 sequences assigned
178 (70.1%) exact matches, in which:
174 unique CDR3
6 unique J



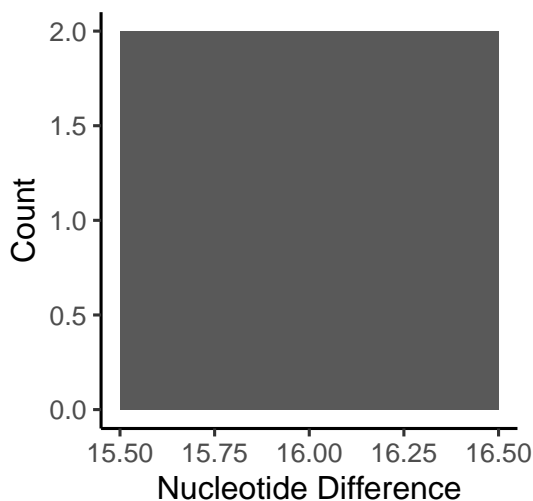
IGHV1-2*06

769 sequences assigned
343 (44.6%) exact matches, in which:
333 unique CDR3
5 unique J



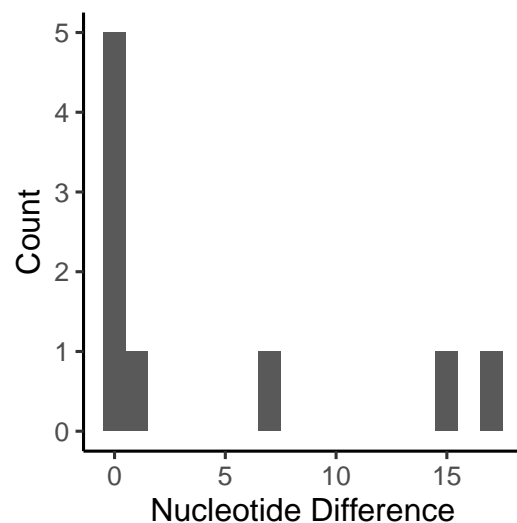
IGHV1-8*01

4 sequences assigned
No exact matches.



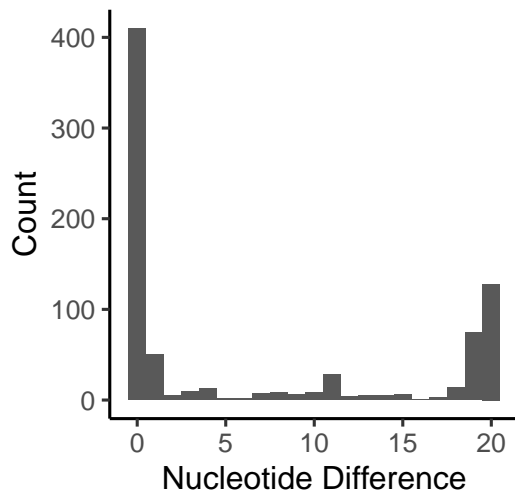
IGHV1-45*02

10 sequences assigned
5 (50%) exact matches, in which:
5 unique CDR3
2 unique J



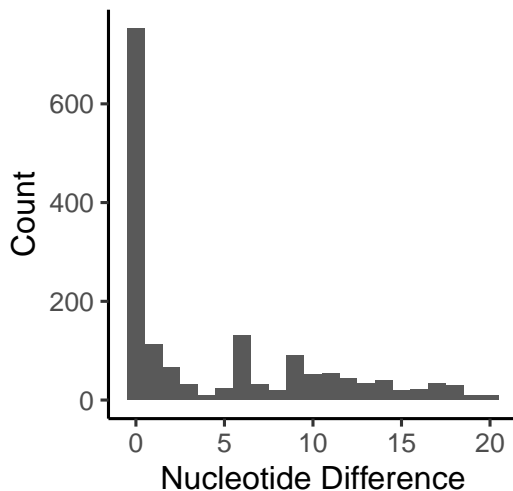
IGHV1-3*01_05

814 sequences assigned
410 (50.4%) exact matches, in which:
395 unique CDR3
6 unique J



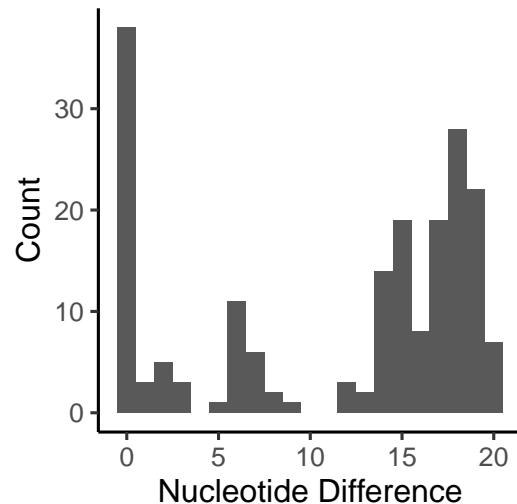
IGHV1-18*01

1794 sequences assigned
753 (42%) exact matches, in which:
721 unique CDR3
6 unique J



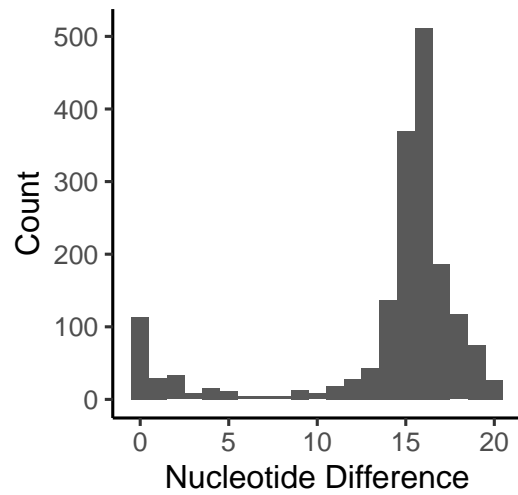
IGHV1-46*01

221 sequences assigned
38 (17.2%) exact matches, in which:
38 unique CDR3
5 unique J



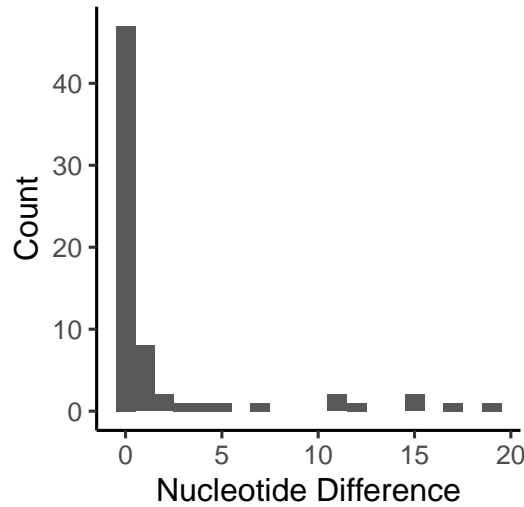
IGHV1-46*03

1944 sequences assigned
114 (5.9%) exact matches, in which:
104 unique CDR3
6 unique J



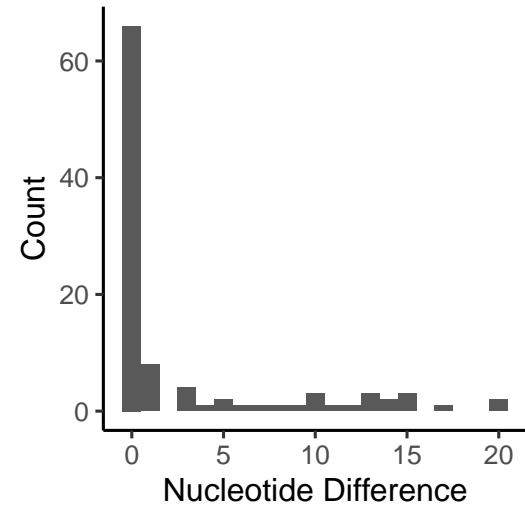
IGHV1-58*01_03

114 sequences assigned
47 (41.2%) exact matches, in which:
46 unique CDR3
5 unique J



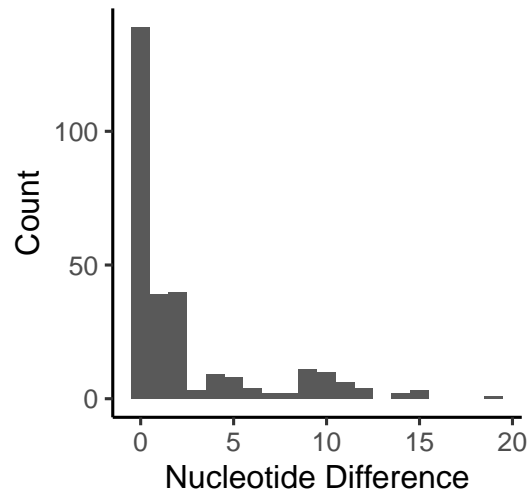
IGHV2-5*02

108 sequences assigned
66 (61.1%) exact matches, in which:
64 unique CDR3
5 unique J



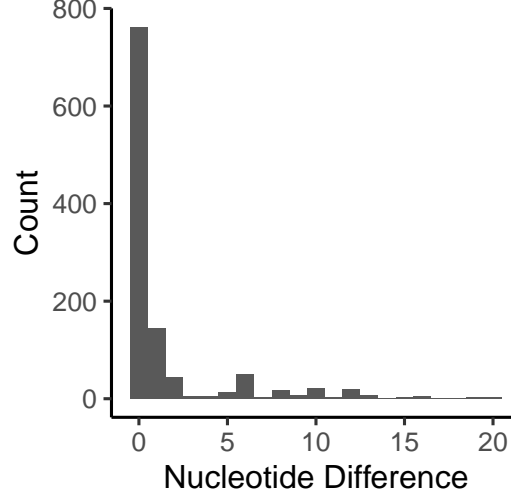
IGHV1-46*04

302 sequences assigned
139 (46%) exact matches, in which:
138 unique CDR3
6 unique J



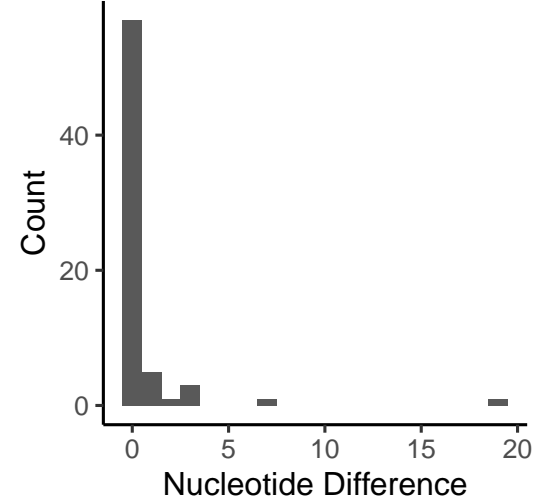
IGHV1-69*01_12_13

1159 sequences assigned
762 (65.7%) exact matches, in which:
750 unique CDR3
6 unique J



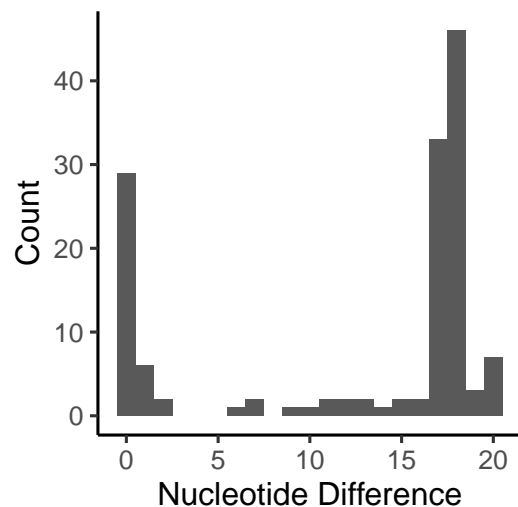
IGHV2-26*01

69 sequences assigned
57 (82.6%) exact matches, in which:
55 unique CDR3
5 unique J



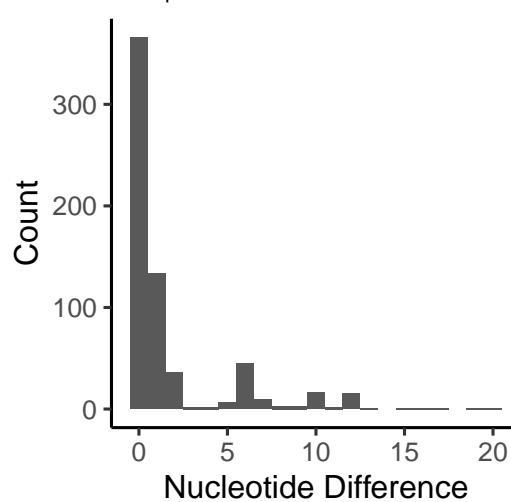
IGHV1-58*02

161 sequences assigned
29 (18%) exact matches, in which:
29 unique CDR3
3 unique J



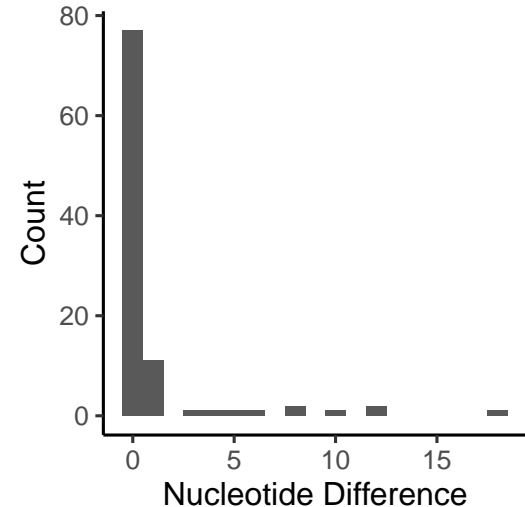
IGHV1-69*04_09

648 sequences assigned
366 (56.5%) exact matches, in which:
355 unique CDR3
6 unique J



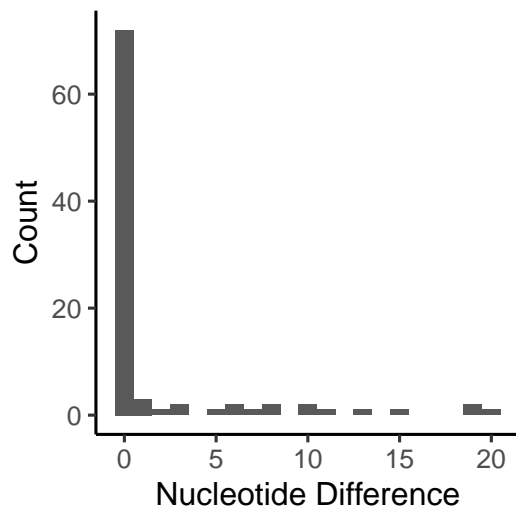
IGHV2-70*01

99 sequences assigned
77 (77.8%) exact matches, in which:
73 unique CDR3
5 unique J



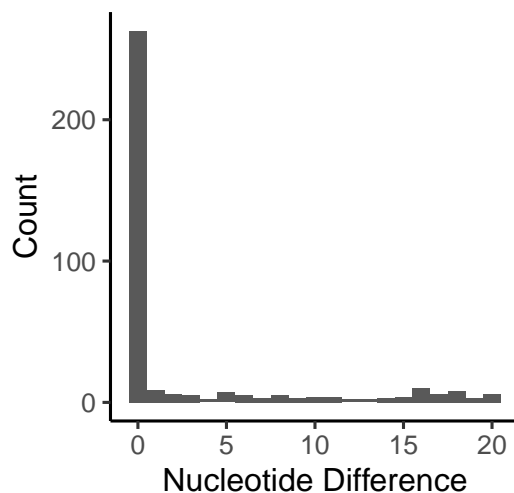
IGHV2-70*11_15

136 sequences assigned
72 (52.9%) exact matches, in which:
68 unique CDR3
5 unique J



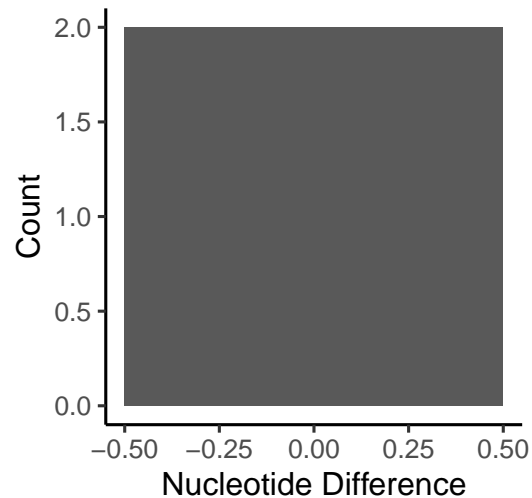
IGHV3-11*06

759 sequences assigned
263 (34.7%) exact matches, in which:
172 unique CDR3
6 unique J



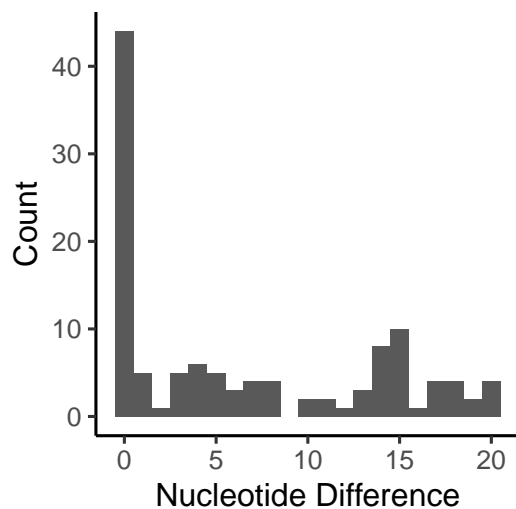
IGHV3-19*01

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



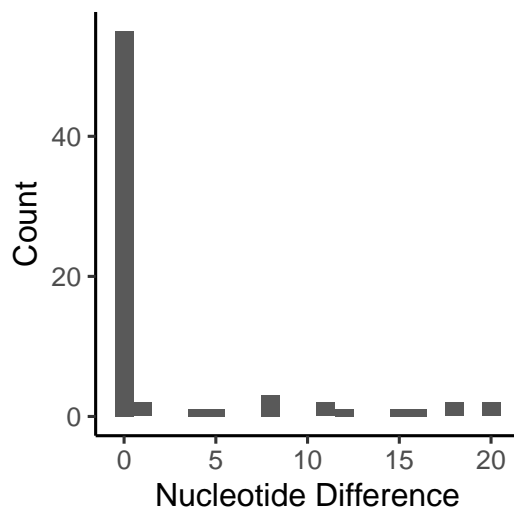
IGHV3-7*01

138 sequences assigned
44 (31.9%) exact matches, in which:
40 unique CDR3
5 unique J



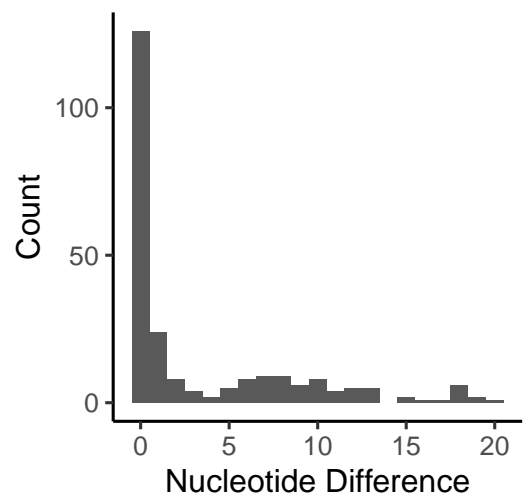
IGHV3-13*05

82 sequences assigned
55 (67.1%) exact matches, in which:
32 unique CDR3
5 unique J



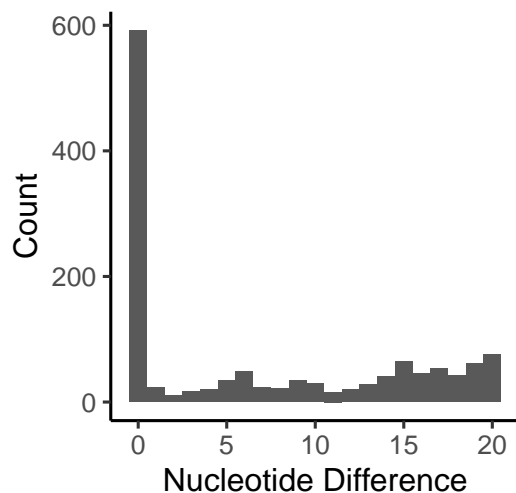
IGHV3-20*03_04

266 sequences assigned
126 (47.4%) exact matches, in which:
73 unique CDR3
6 unique J



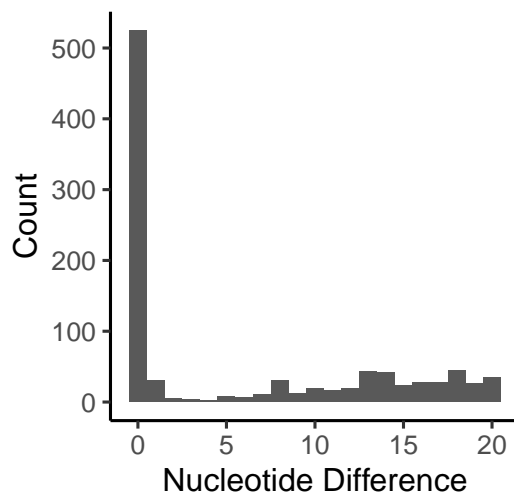
IGHV3-7*03

1627 sequences assigned
592 (36.4%) exact matches, in which:
344 unique CDR3
6 unique J



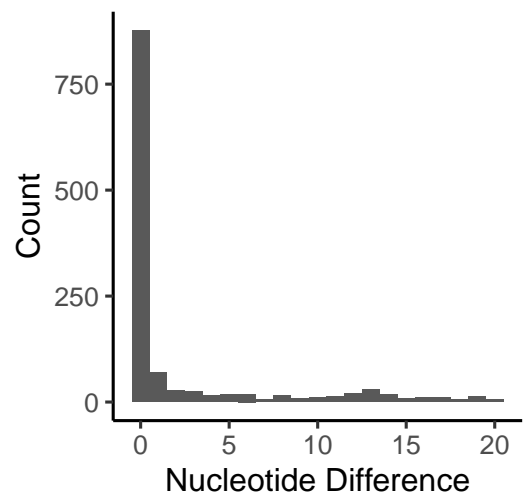
IGHV3-15*01_02

1129 sequences assigned
525 (46.5%) exact matches, in which:
330 unique CDR3
6 unique J



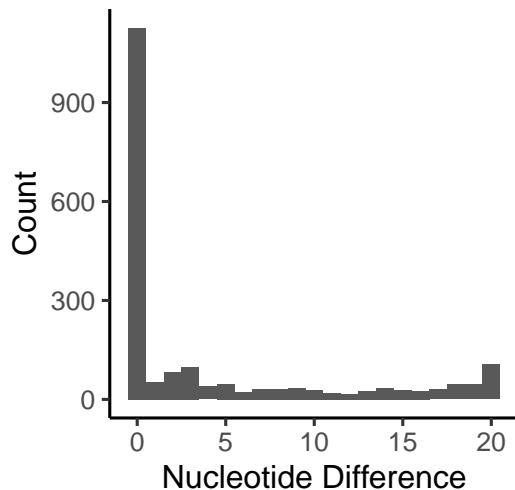
IGHV3-21*01_02

1470 sequences assigned
877 (59.7%) exact matches, in which:
530 unique CDR3
6 unique J



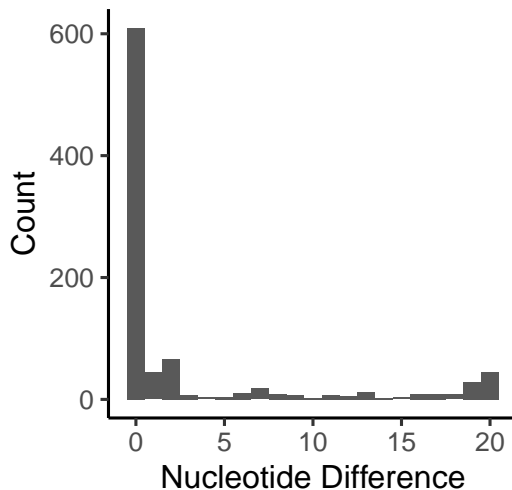
IGHV3–23*01_04

2827 sequences assigned
1127 (39.9%) exact matches, in which:
662 unique CDR3
6 unique J



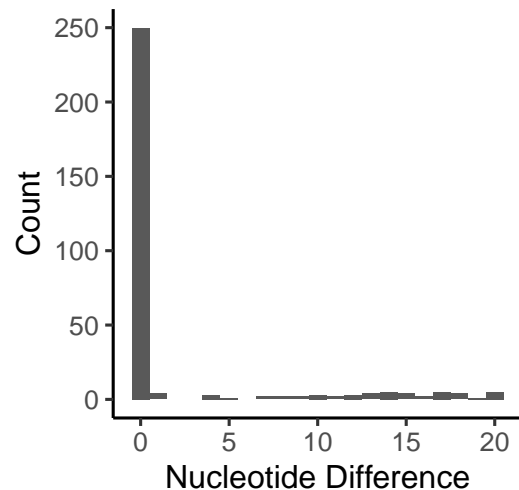
IGHV3–33*08

1615 sequences assigned
610 (37.8%) exact matches, in which:
391 unique CDR3
6 unique J



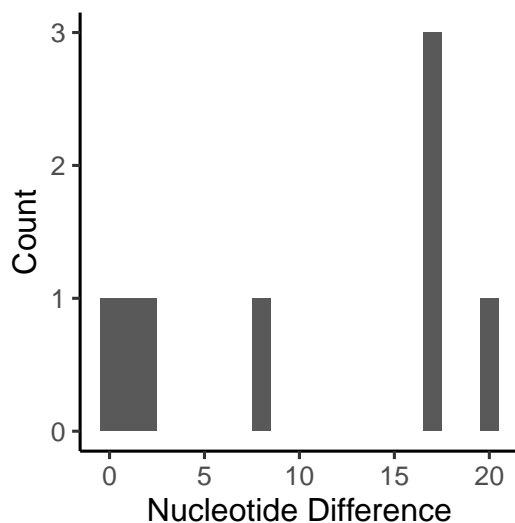
IGHV3–49*03_05

350 sequences assigned
250 (71.4%) exact matches, in which:
156 unique CDR3
5 unique J



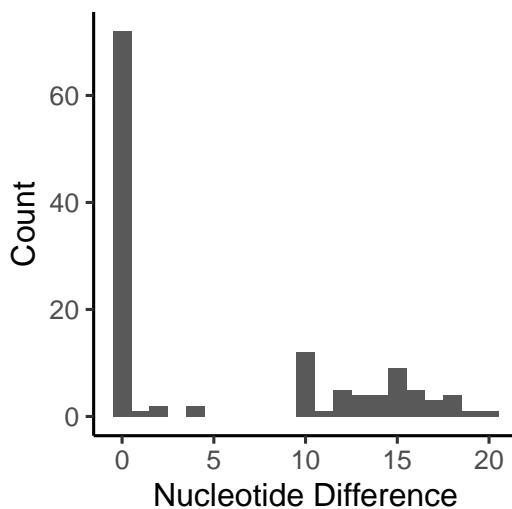
IGHV3–30–5*01

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



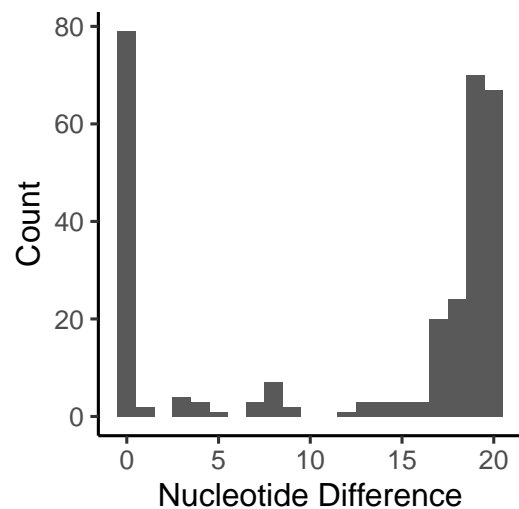
IGHV3–43*01

174 sequences assigned
72 (41.4%) exact matches, in which:
41 unique CDR3
5 unique J



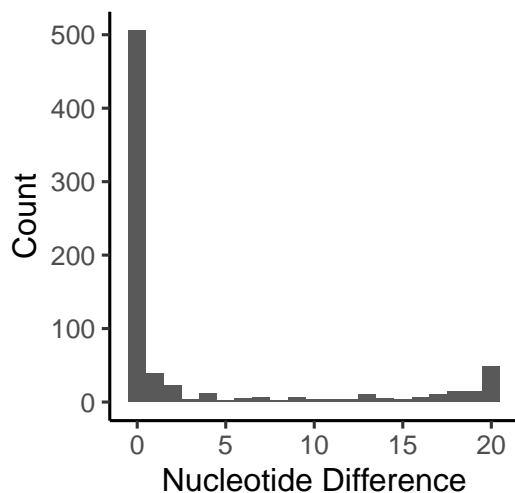
IGHV3–53*01_02

769 sequences assigned
79 (10.3%) exact matches, in which:
48 unique CDR3
6 unique J



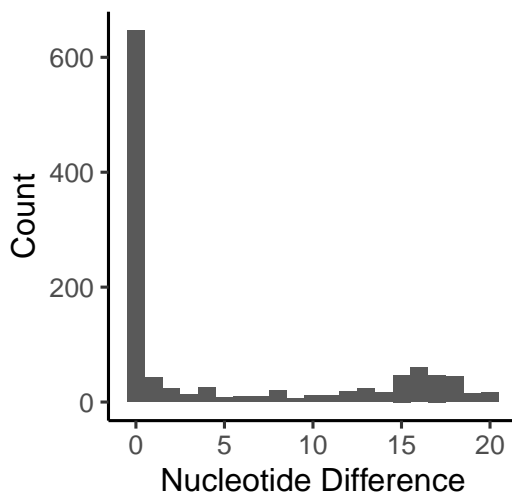
IGHV3–33*01

1444 sequences assigned
506 (35%) exact matches, in which:
326 unique CDR3
6 unique J



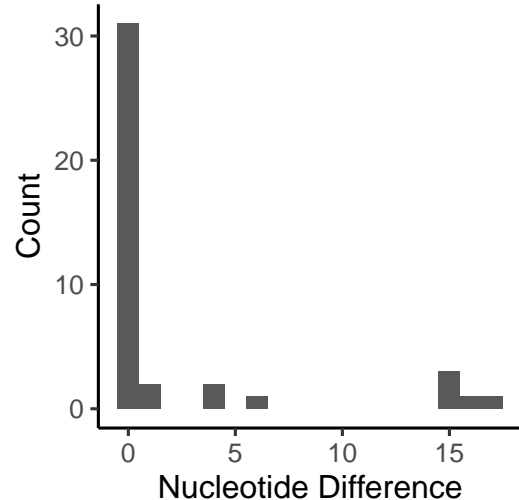
IGHV3–48*01

1308 sequences assigned
647 (49.5%) exact matches, in which:
398 unique CDR3
6 unique J



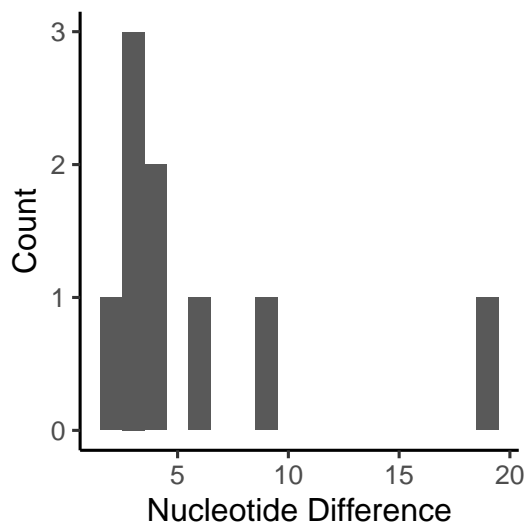
IGHV3–64*01

43 sequences assigned
31 (72.1%) exact matches, in which:
16 unique CDR3
4 unique J



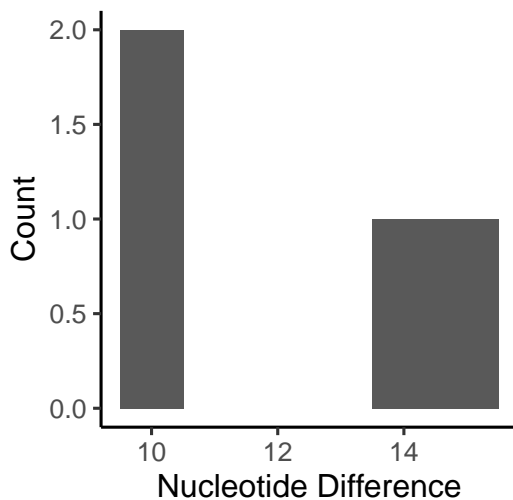
IGHV3-64*04

13 sequences assigned
No exact matches.



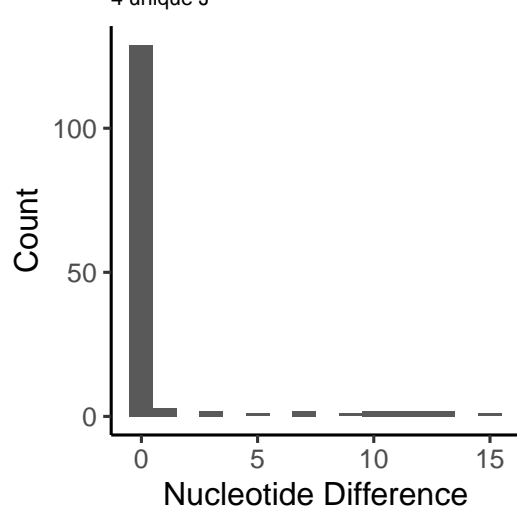
IGHV3-69-1*01

4 sequences assigned
No exact matches.



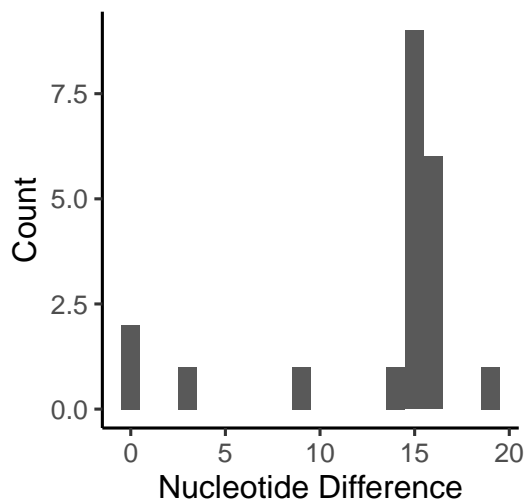
IGHV3-73*01_02

165 sequences assigned
129 (78.2%) exact matches, in which:
76 unique CDR3
4 unique J



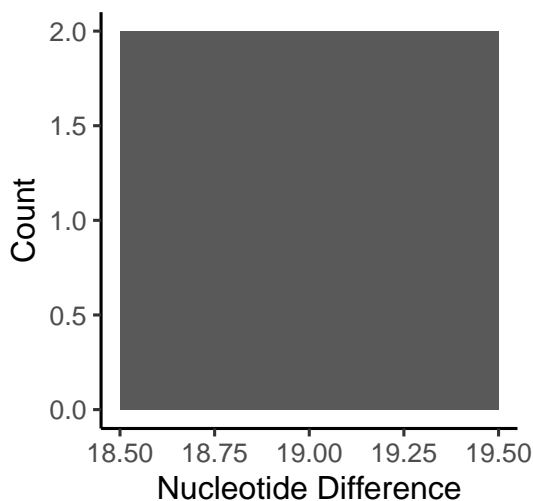
IGHV3-64*02_07

23 sequences assigned
2 (8.7%) exact matches, in which:
1 unique CDR3
1 unique J



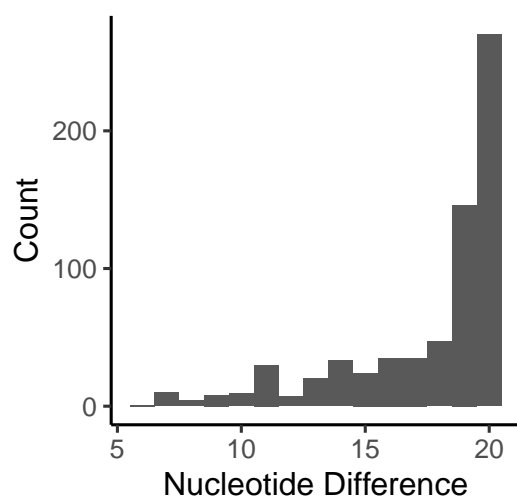
IGHV3-69-1*02

3 sequences assigned
No exact matches.



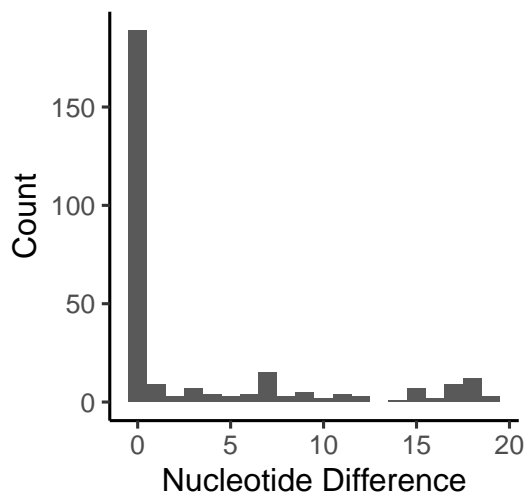
IGHV3-74*03

2524 sequences assigned
No exact matches.



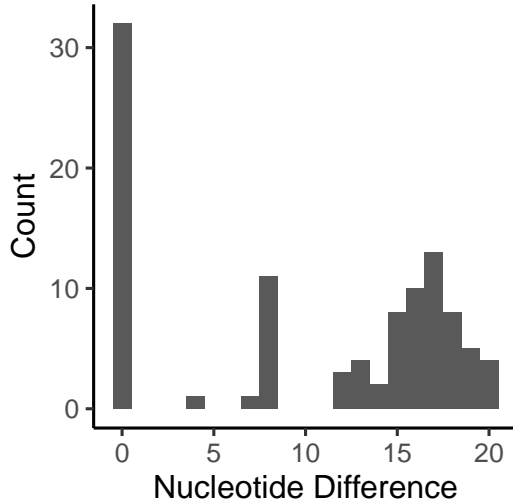
IGHV3-66*01

314 sequences assigned
189 (60.2%) exact matches, in which:
113 unique CDR3
6 unique J



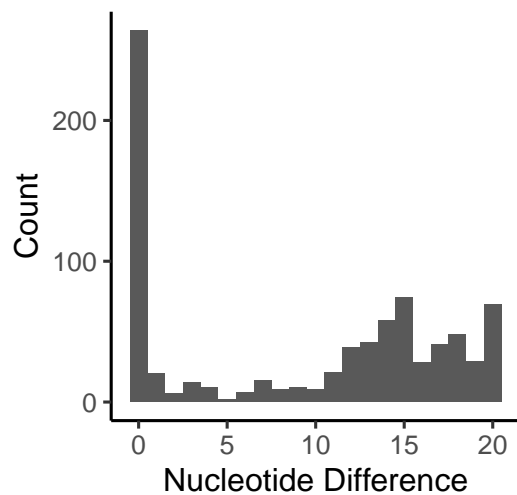
IGHV3-72*01

184 sequences assigned
32 (17.4%) exact matches, in which:
20 unique CDR3
4 unique J



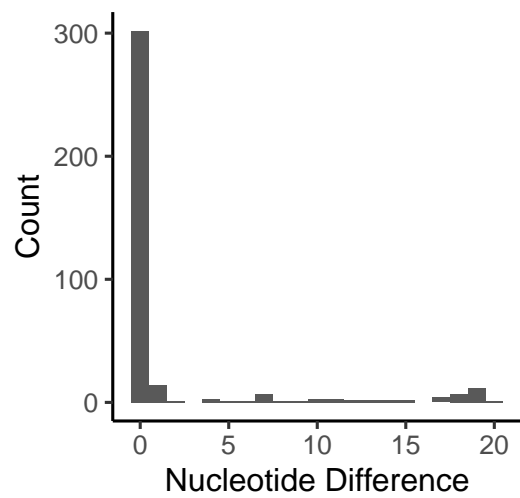
IGHV3-74*01_02

1373 sequences assigned
264 (19.2%) exact matches, in which:
155 unique CDR3
6 unique J



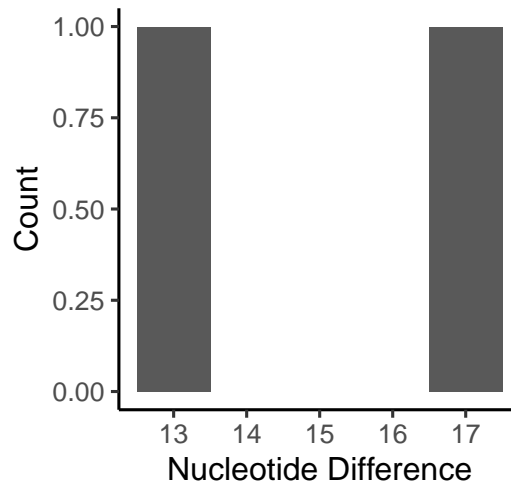
IGHV3–64D*06

492 sequences assigned
302 (61.4%) exact matches, in which:
154 unique CDR3
6 unique J



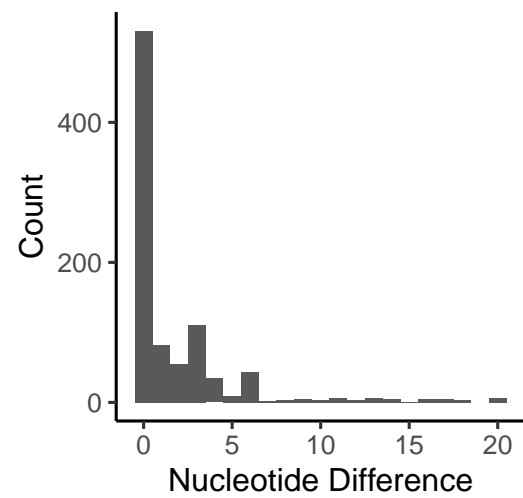
IGHV4–30–4*01

4 sequences assigned
No exact matches.



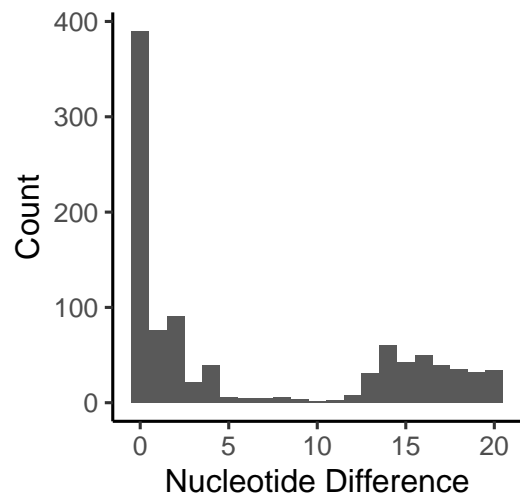
IGHV4–31*02

1001 sequences assigned
531 (53%) exact matches, in which:
511 unique CDR3
6 unique J



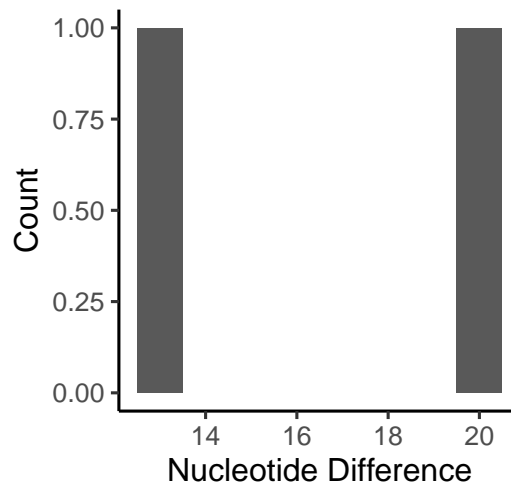
IGHV4–4*02_03

1398 sequences assigned
390 (27.9%) exact matches, in which:
341 unique CDR3
6 unique J



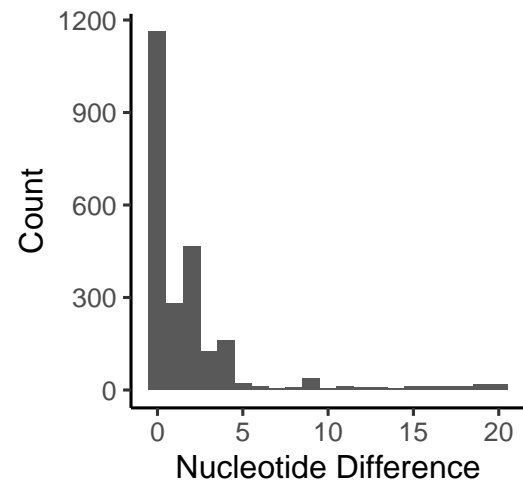
IGHV4–30–2*03

3 sequences assigned
No exact matches.



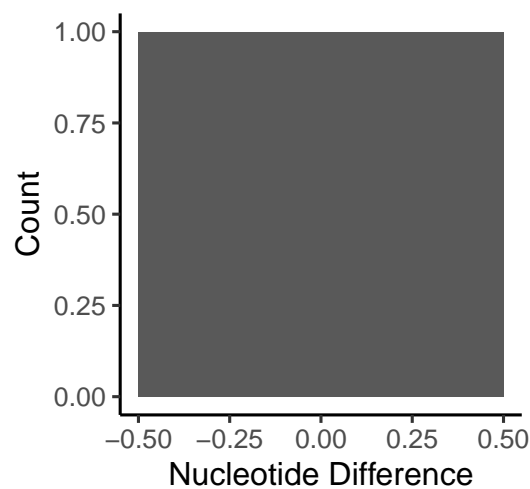
IGHV4–34*01_02

2499 sequences assigned
1162 (46.5%) exact matches, in which:
1016 unique CDR3
6 unique J



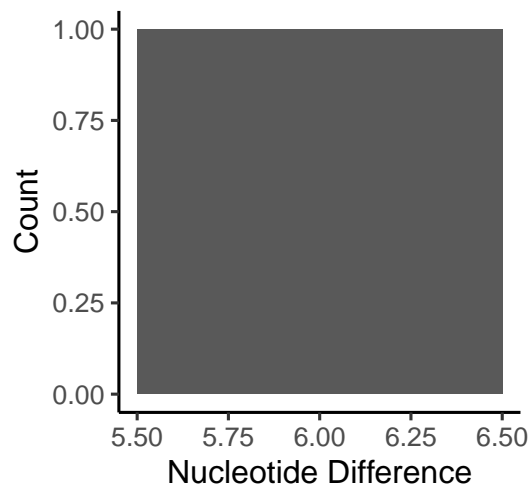
IGHV4–28*01_07

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



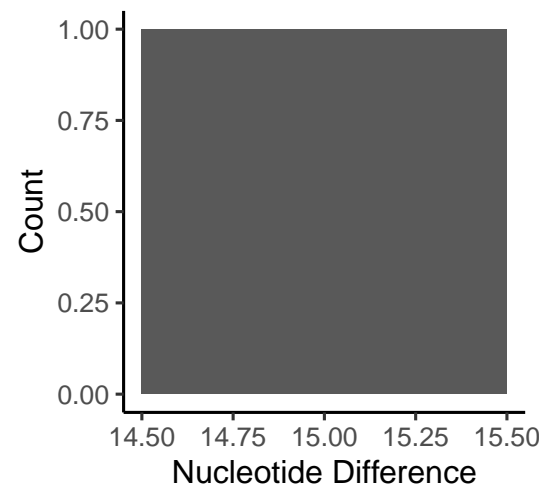
IGHV4–30–4*08

2 sequences assigned
No exact matches.



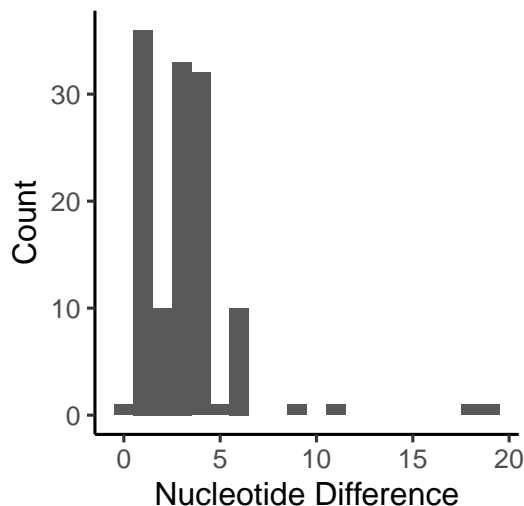
IGHV4–38–2*02

8 sequences assigned
No exact matches.



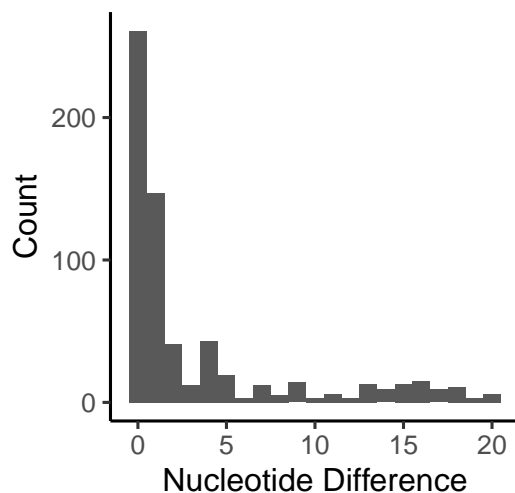
IGHV4–39*07

136 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



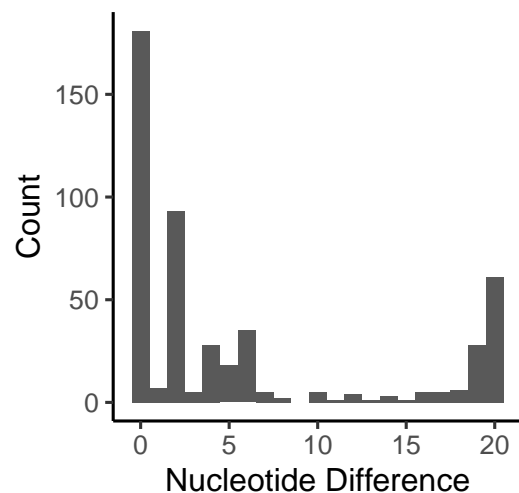
IGHV4–59*08

819 sequences assigned
261 (31.9%) exact matches, in which:
240 unique CDR3
6 unique J



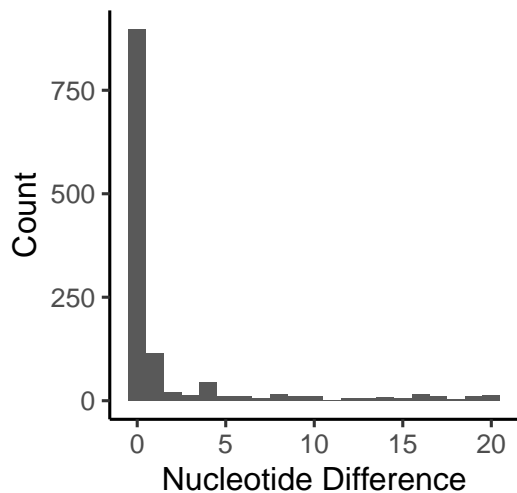
IGHV4–61*01

529 sequences assigned
181 (34.2%) exact matches, in which:
171 unique CDR3
5 unique J



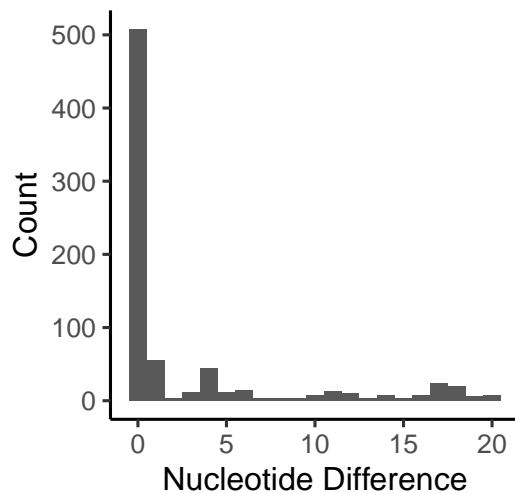
IGHV4–39*02_C258G

1604 sequences assigned
898 (56%) exact matches, in which:
806 unique CDR3
6 unique J



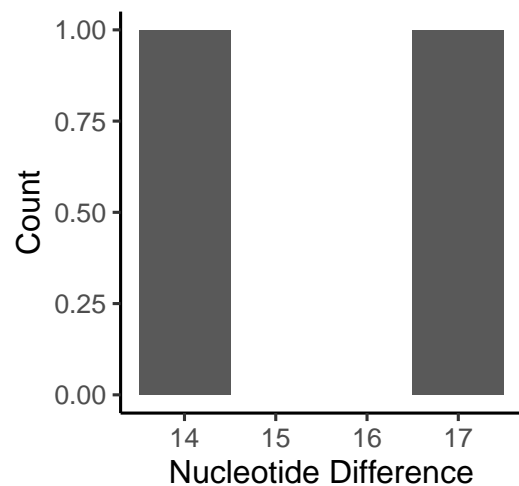
IGHV4–59*01_07

1136 sequences assigned
508 (44.7%) exact matches, in which:
491 unique CDR3
6 unique J



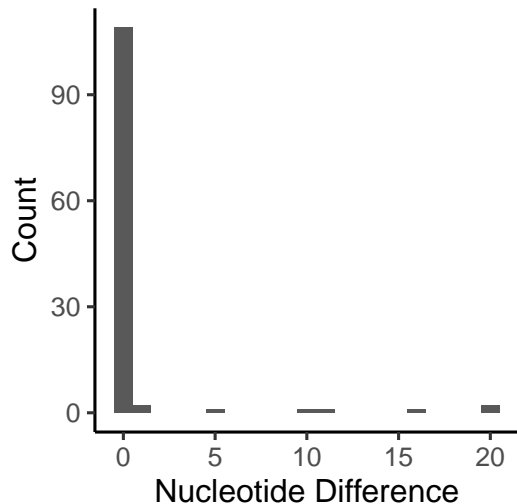
IGHV4/OR15–8*01

3 sequences assigned
No exact matches.



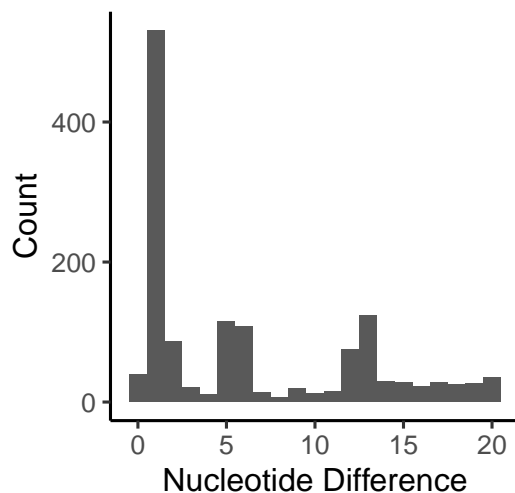
IGHV4–39*02_C258G_A2

136 sequences assigned
109 (80.1%) exact matches, in which:
109 unique CDR3
6 unique J



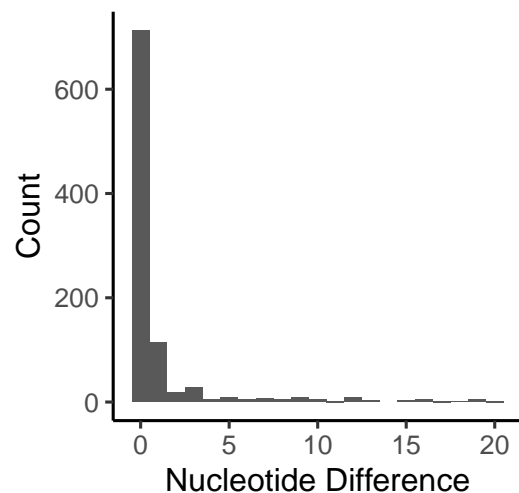
IGHV4–59*12

2565 sequences assigned
39 (1.5%) exact matches, in which:
39 unique CDR3
4 unique J



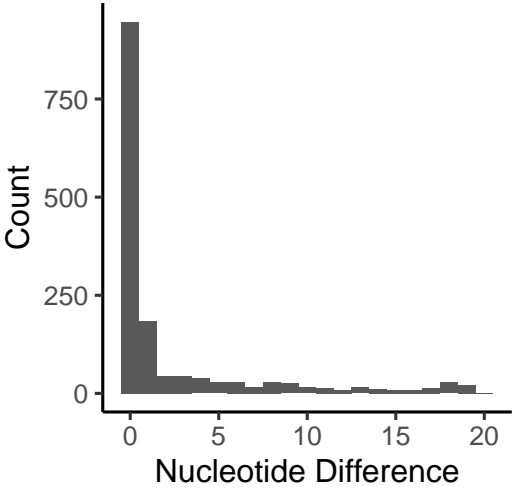
IGHV5–10–1*01_03

1085 sequences assigned
713 (65.7%) exact matches, in which:
472 unique CDR3
6 unique J



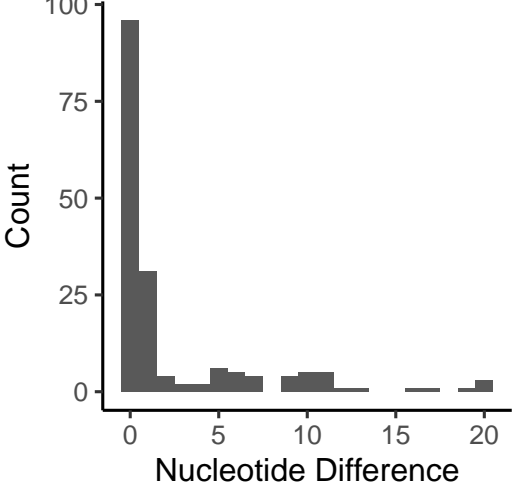
IGHV5–51*07_A128G

1578 sequences assigned
947 (60%) exact matches, in which:
566 unique CDR3
6 unique J



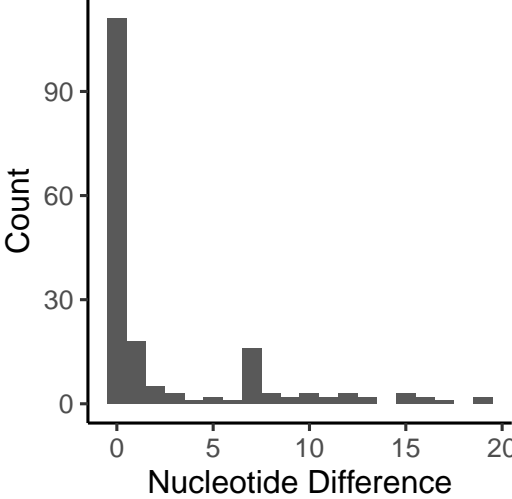
IGHV6–1*01_02

218 sequences assigned
96 (44%) exact matches, in which:
95 unique CDR3
6 unique J



IGHV7–4–1*02

189 sequences assigned
111 (58.7%) exact matches, in which:
106 unique CDR3
5 unique J





Warning – no inferred sequences found.