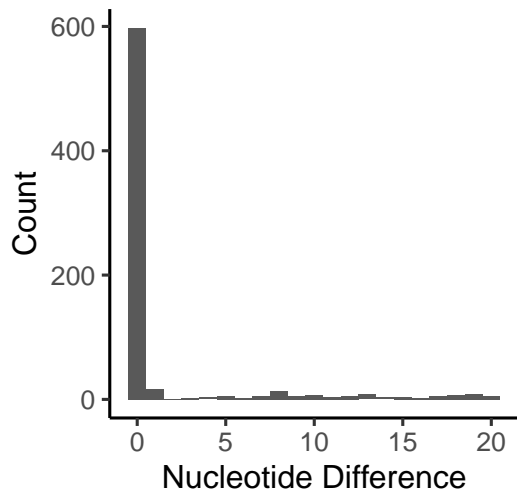


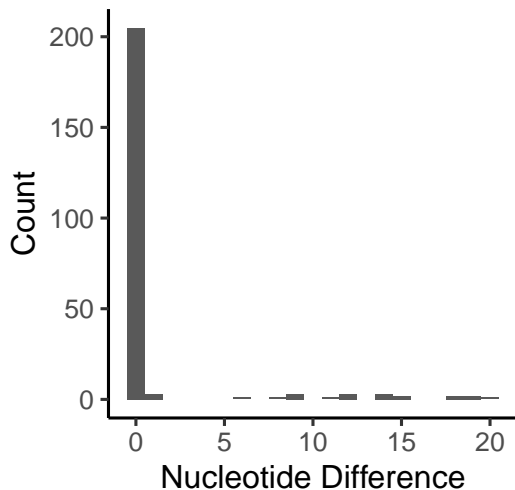
IGHV1-2*06

742 sequences assigned
598 (80.6%) exact matches, in which:
597 unique CDR3
6 unique J



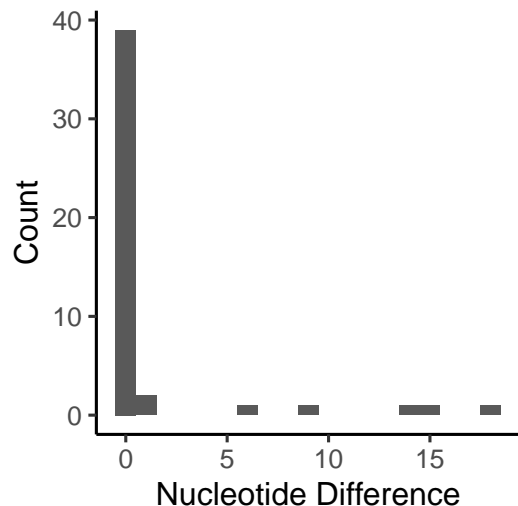
IGHV1-24*01

242 sequences assigned
205 (84.7%) exact matches, in which:
204 unique CDR3
6 unique J



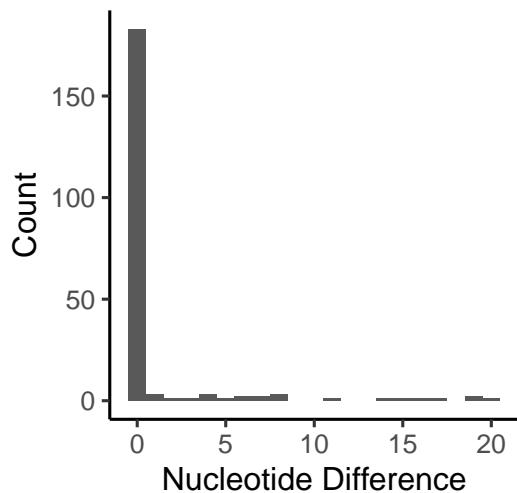
IGHV1-58*02

46 sequences assigned
39 (84.8%) exact matches, in which:
39 unique CDR3
5 unique J



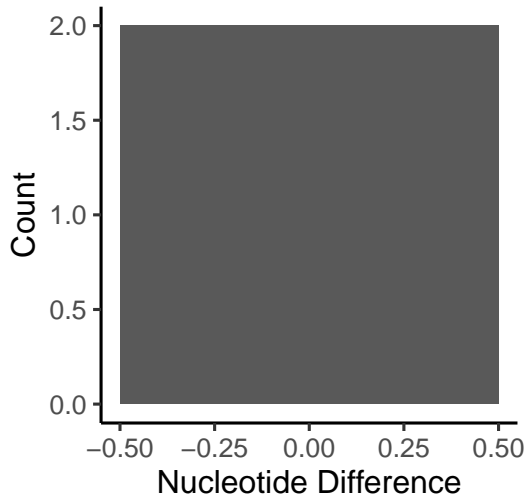
IGHV1-8*01

217 sequences assigned
183 (84.3%) exact matches, in which:
183 unique CDR3
6 unique J



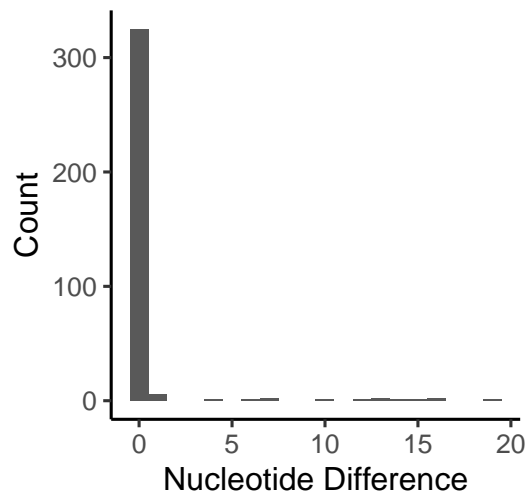
IGHV1-45*02

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



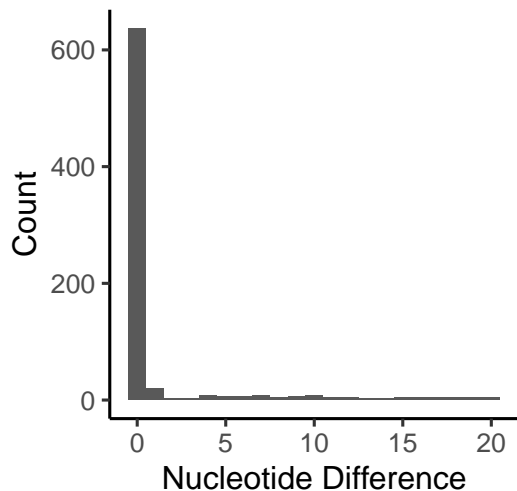
IGHV1-69*10

356 sequences assigned
325 (91.3%) exact matches, in which:
325 unique CDR3
6 unique J



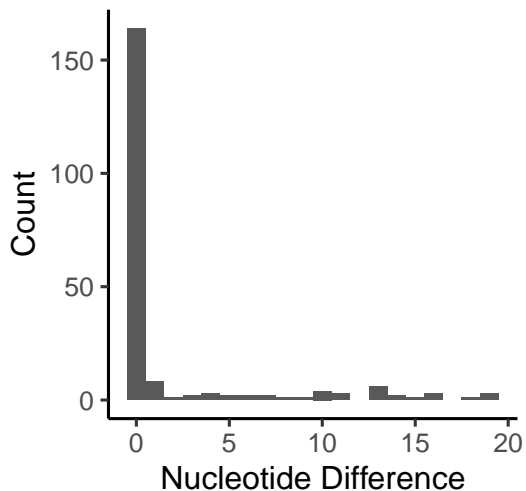
IGHV1-18*01

789 sequences assigned
637 (80.7%) exact matches, in which:
636 unique CDR3
6 unique J



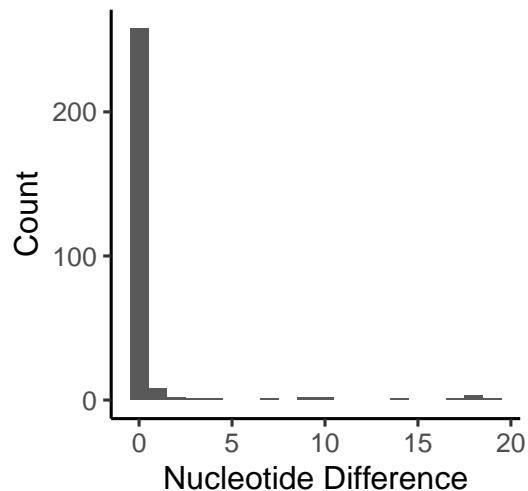
IGHV1-46*01

223 sequences assigned
164 (73.5%) exact matches, in which:
163 unique CDR3
6 unique J



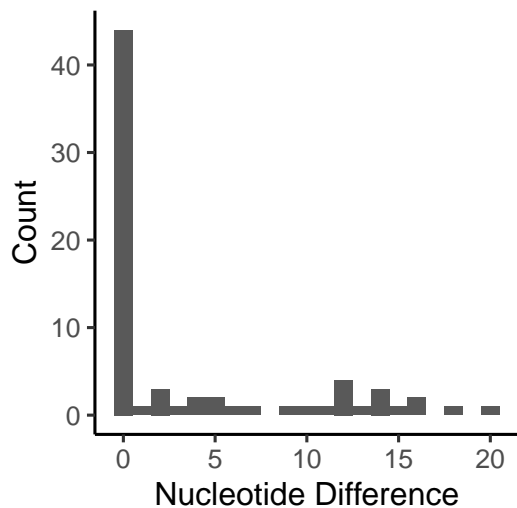
IGHV1-69*04_09

301 sequences assigned
258 (85.7%) exact matches, in which:
258 unique CDR3
6 unique J



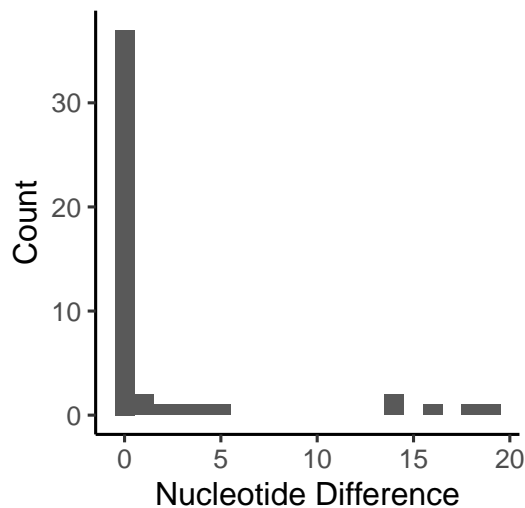
IGHV2-5*01

78 sequences assigned
44 (56.4%) exact matches, in which:
44 unique CDR3
6 unique J



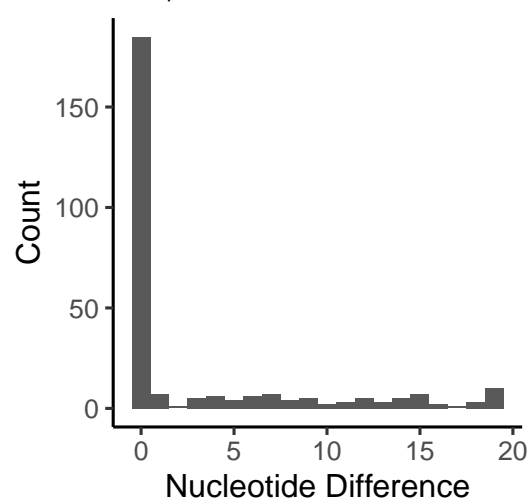
IGHV2-70*11_15

50 sequences assigned
37 (74%) exact matches, in which:
37 unique CDR3
4 unique J



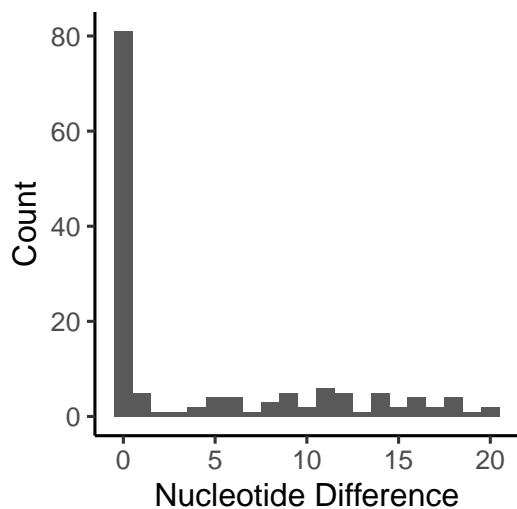
IGHV3-9*01

284 sequences assigned
185 (65.1%) exact matches, in which:
178 unique CDR3
6 unique J



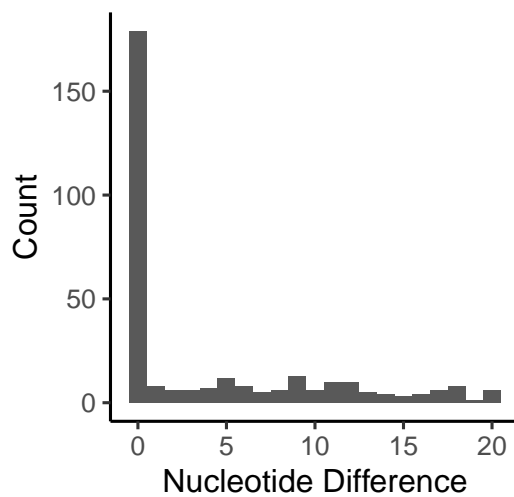
IGHV2-5*02

159 sequences assigned
81 (50.9%) exact matches, in which:
81 unique CDR3
6 unique J



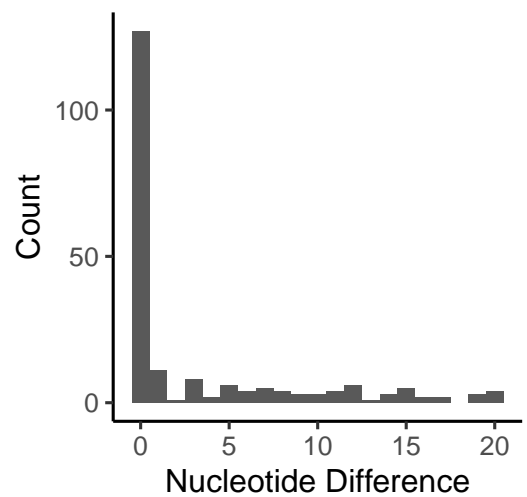
IGHV3-7*01

340 sequences assigned
179 (52.6%) exact matches, in which:
171 unique CDR3
6 unique J



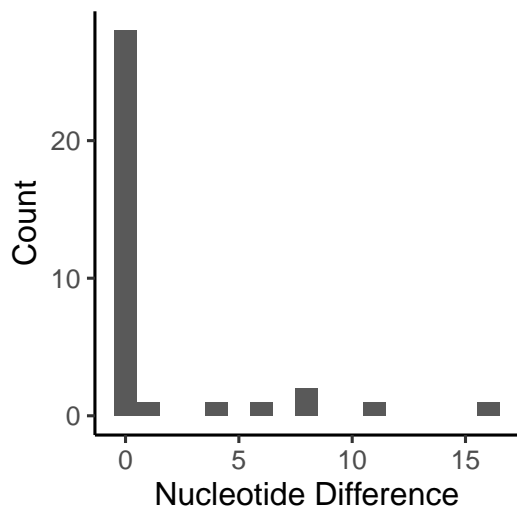
IGHV3-11*01

230 sequences assigned
127 (55.2%) exact matches, in which:
124 unique CDR3
6 unique J



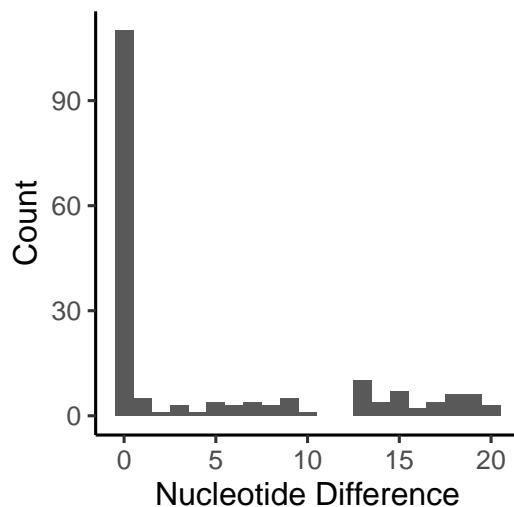
IGHV2-26*01

39 sequences assigned
28 (71.8%) exact matches, in which:
28 unique CDR3
5 unique J



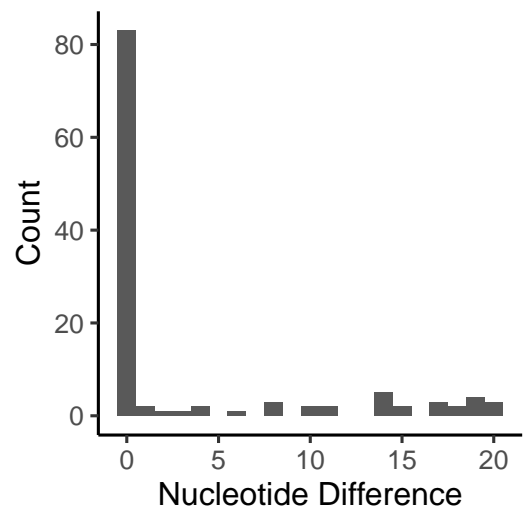
IGHV3-7*05

207 sequences assigned
110 (53.1%) exact matches, in which:
110 unique CDR3
6 unique J



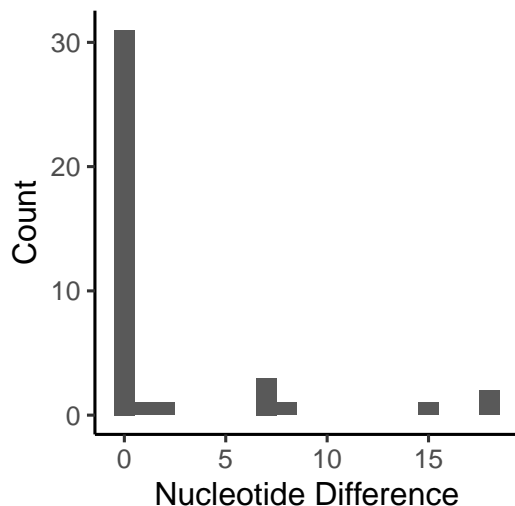
IGHV3-11*06

122 sequences assigned
83 (68%) exact matches, in which:
82 unique CDR3
4 unique J



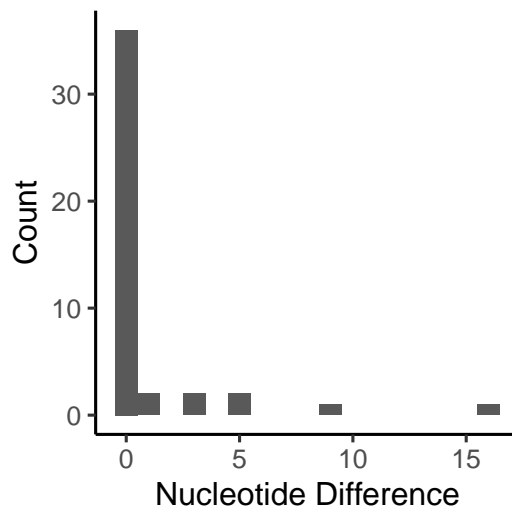
IGHV3-13*01

44 sequences assigned
31 (70.5%) exact matches, in which:
30 unique CDR3
4 unique J



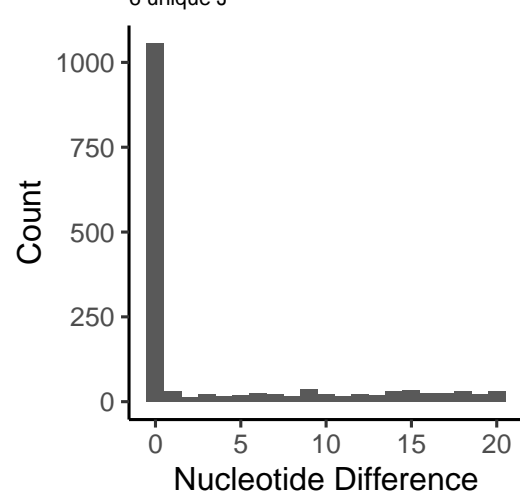
IGHV3-20*01_02

44 sequences assigned
36 (81.8%) exact matches, in which:
35 unique CDR3
5 unique J



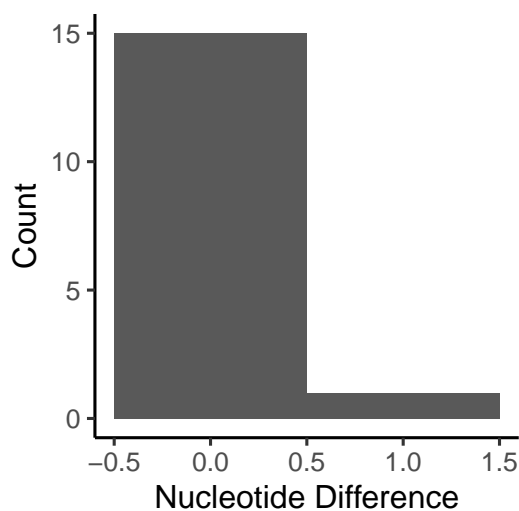
IGHV3-23*01_04

1710 sequences assigned
1056 (61.8%) exact matches, in which:
1014 unique CDR3
6 unique J



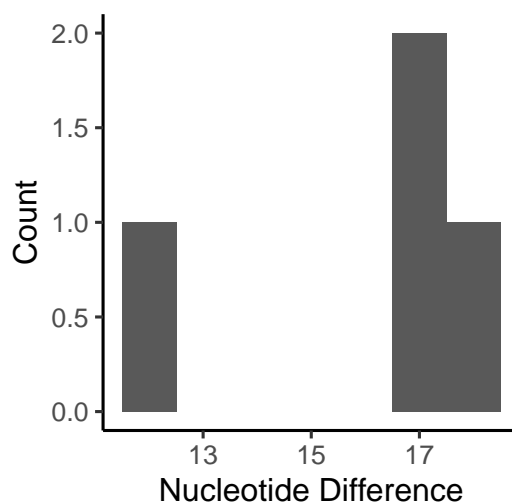
IGHV3-13*05

16 sequences assigned
15 (93.8%) exact matches, in which:
15 unique CDR3
5 unique J



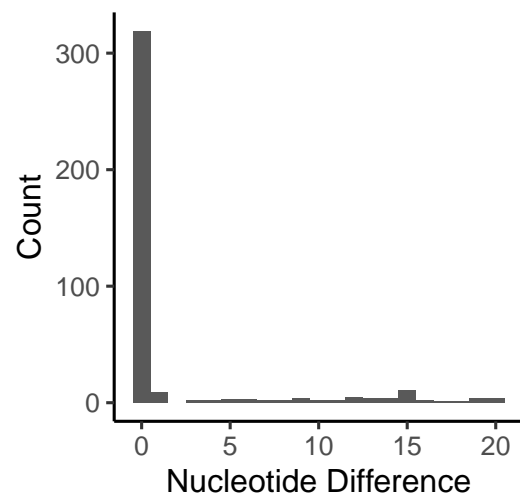
IGHV3-20*03_04

9 sequences assigned
No exact matches.



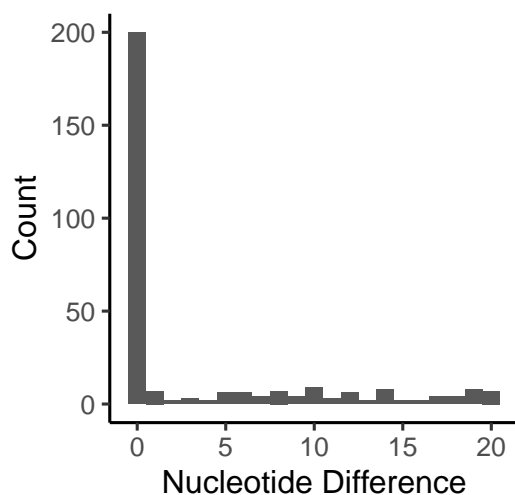
IGHV3-30-3*01

427 sequences assigned
319 (74.7%) exact matches, in which:
313 unique CDR3
6 unique J



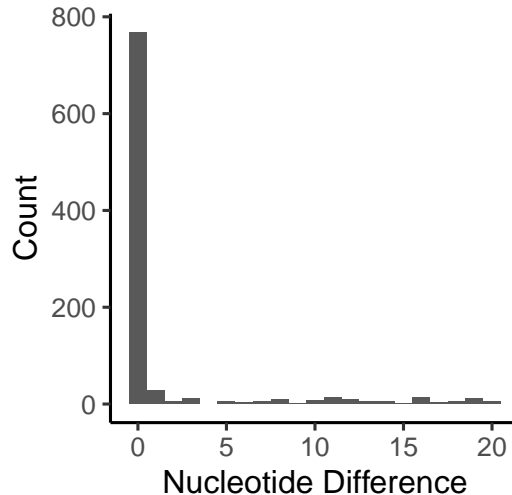
IGHV3-15*01_02

329 sequences assigned
200 (60.8%) exact matches, in which:
198 unique CDR3
6 unique J



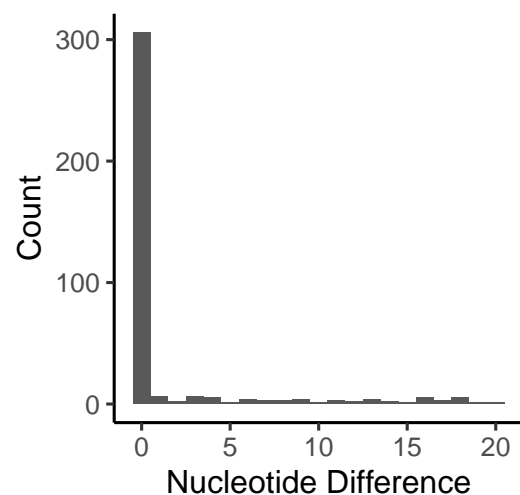
IGHV3-21*01_02

987 sequences assigned
768 (77.8%) exact matches, in which:
748 unique CDR3
6 unique J



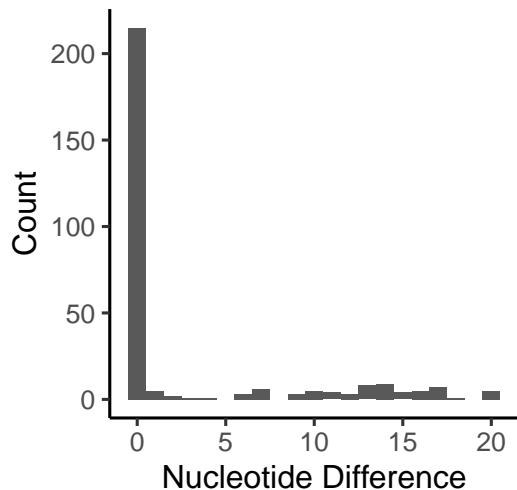
IGHV3-30*04_C203T

397 sequences assigned
306 (77.1%) exact matches, in which:
295 unique CDR3
6 unique J



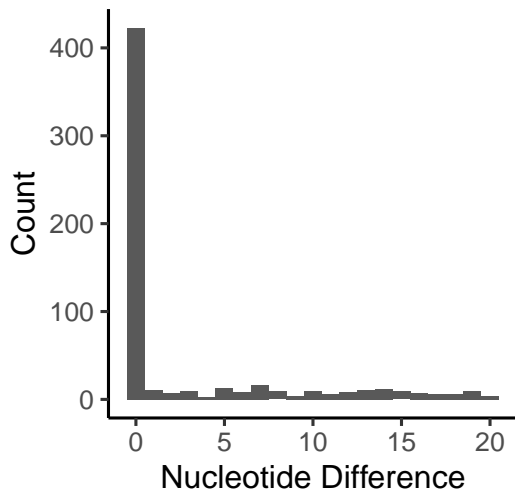
IGHV3–30*04_G160A

311 sequences assigned
215 (69.1%) exact matches, in which:
208 unique CDR3
5 unique J



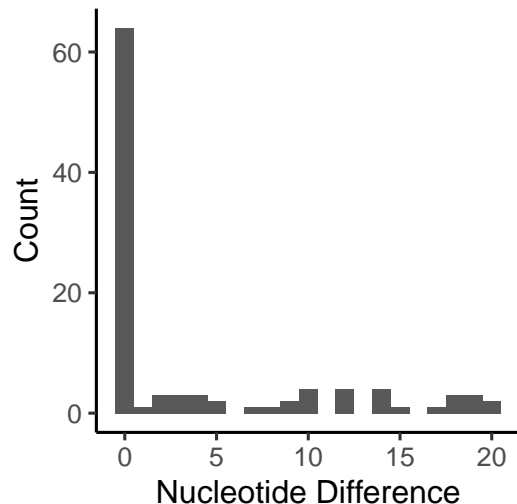
IGHV3–48*04

645 sequences assigned
423 (65.6%) exact matches, in which:
407 unique CDR3
6 unique J



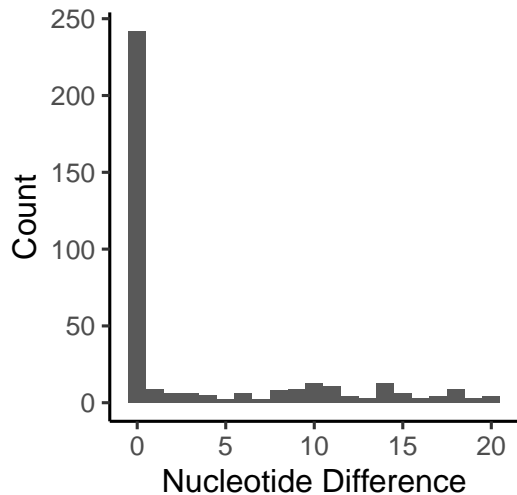
IGHV3–64*01

111 sequences assigned
64 (57.7%) exact matches, in which:
62 unique CDR3
5 unique J



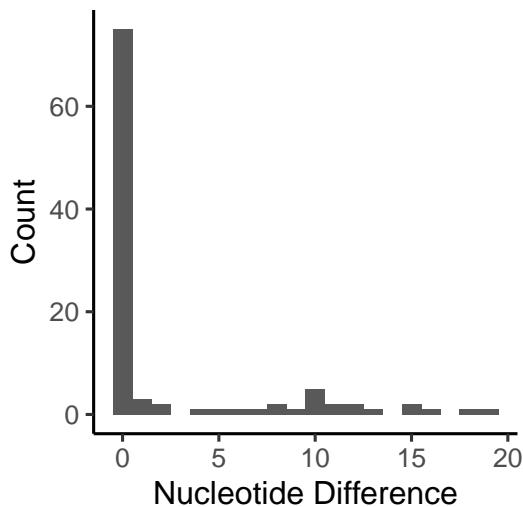
IGHV3–33*06

394 sequences assigned
242 (61.4%) exact matches, in which:
236 unique CDR3
6 unique J



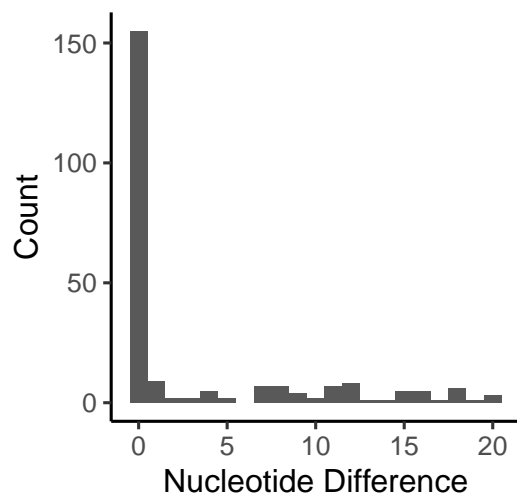
IGHV3–49*03_05

116 sequences assigned
75 (64.7%) exact matches, in which:
73 unique CDR3
6 unique J



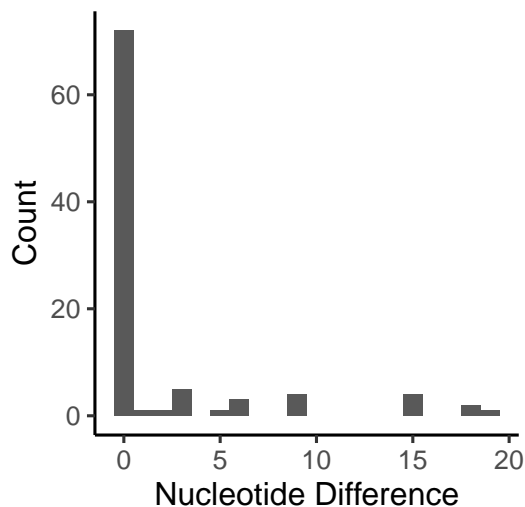
IGHV3–66*01

260 sequences assigned
155 (59.6%) exact matches, in which:
150 unique CDR3
6 unique J



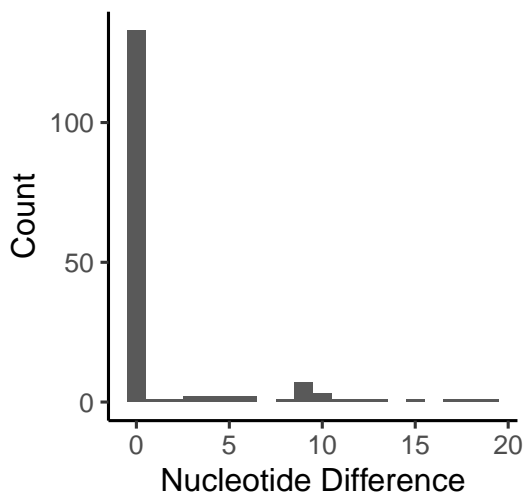
IGHV3–43*01

107 sequences assigned
72 (67.3%) exact matches, in which:
71 unique CDR3
5 unique J



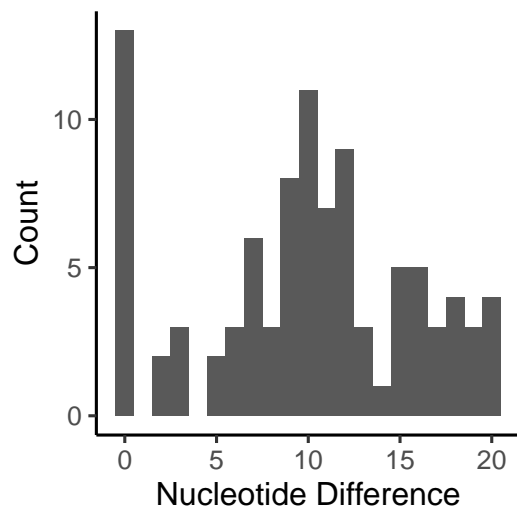
IGHV3–53*04

173 sequences assigned
133 (76.9%) exact matches, in which:
128 unique CDR3
5 unique J



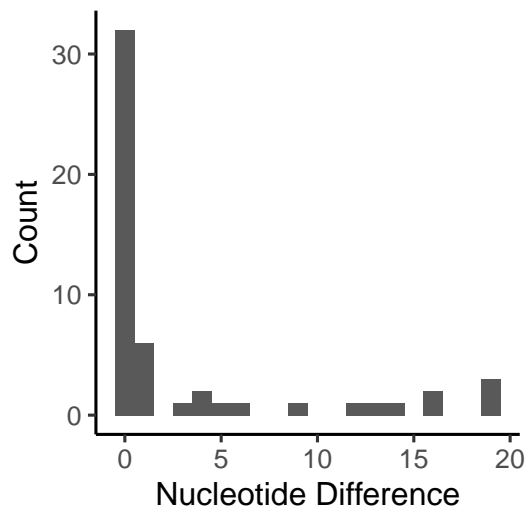
IGHV3–72*01

109 sequences assigned
13 (11.9%) exact matches, in which:
13 unique CDR3
2 unique J



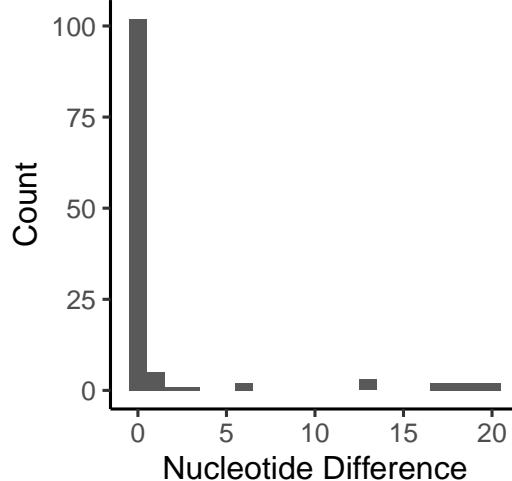
IGHV3-73*01_02

54 sequences assigned
32 (59.3%) exact matches, in which:
31 unique CDR3
5 unique J



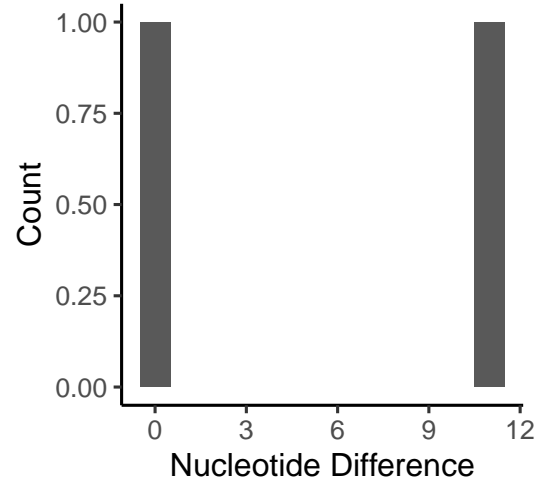
IGHV3-43D*03

134 sequences assigned
102 (76.1%) exact matches, in which:
99 unique CDR3
6 unique J



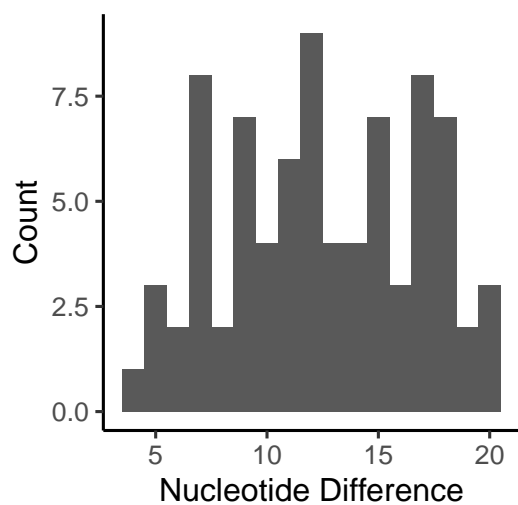
IGHV4-28*01_07

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



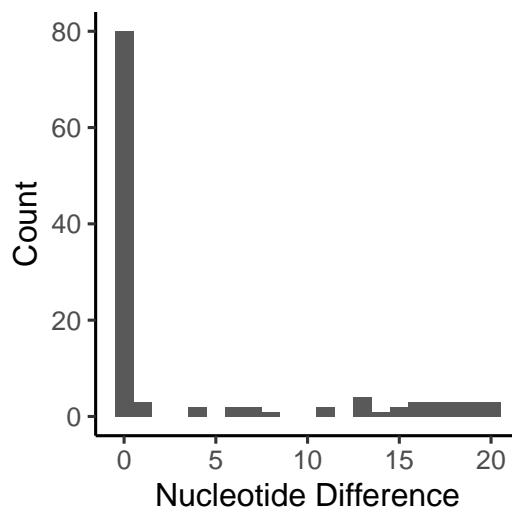
IGHV3-74*03

102 sequences assigned
No exact matches.



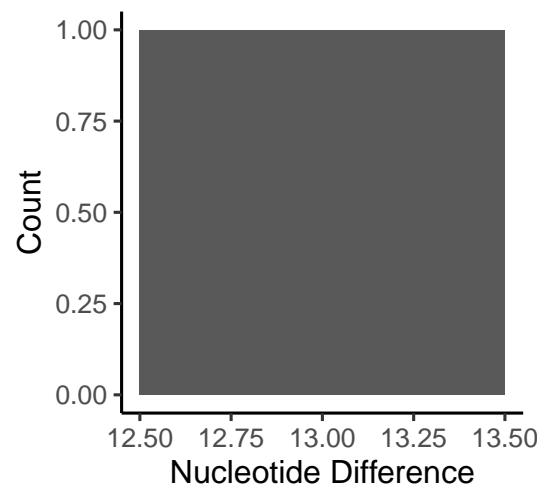
IGHV3-64D*06

138 sequences assigned
80 (58%) exact matches, in which:
74 unique CDR3
5 unique J



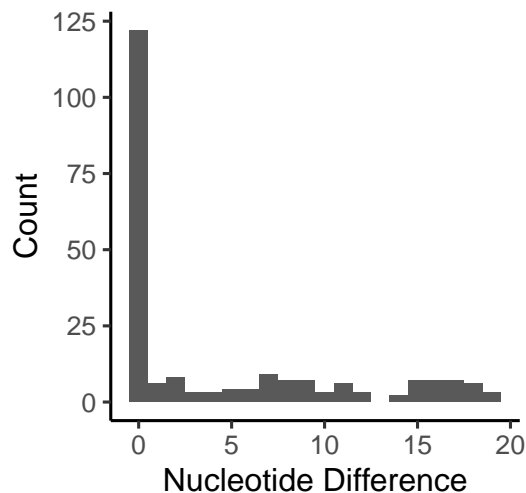
IGHV4-28*02_05

1 sequences assigned
No exact matches.



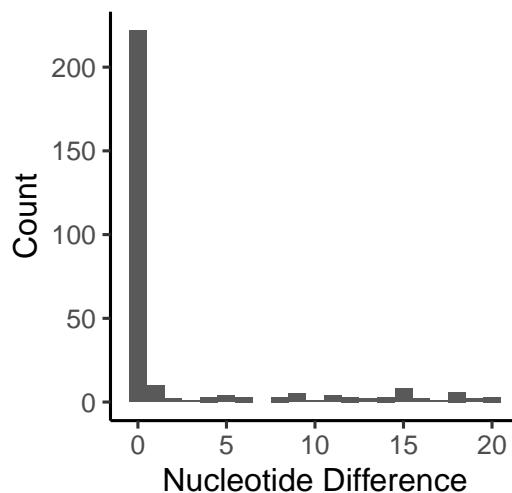
IGHV3-74*01_02

221 sequences assigned
122 (55.2%) exact matches, in which:
114 unique CDR3
6 unique J



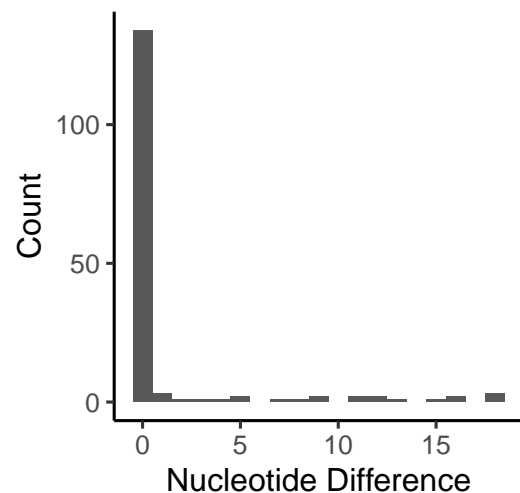
IGHV4-4*02_03

312 sequences assigned
222 (71.2%) exact matches, in which:
220 unique CDR3
6 unique J



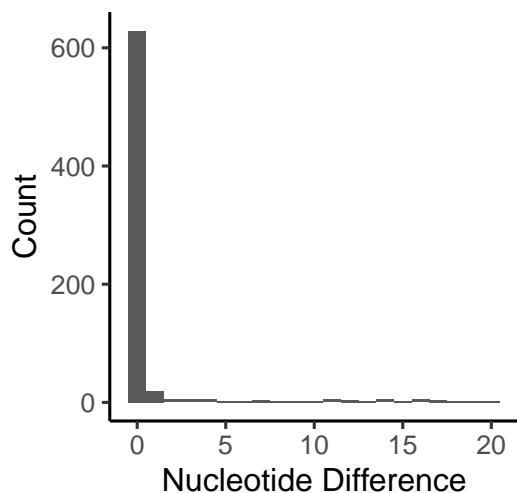
IGHV4-30-4*01

173 sequences assigned
134 (77.5%) exact matches, in which:
131 unique CDR3
5 unique J



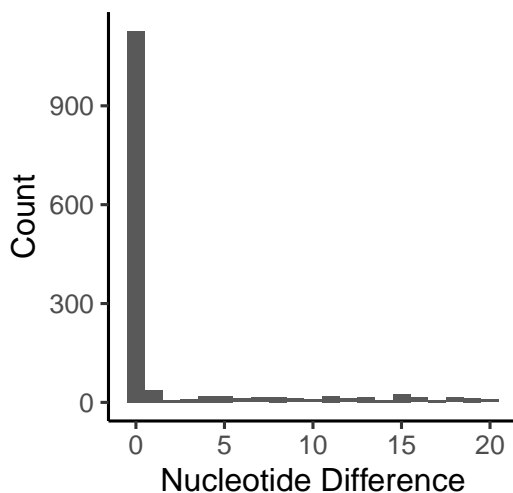
IGHV4-31*02

788 sequences assigned
629 (79.8%) exact matches, in which:
622 unique CDR3
6 unique J



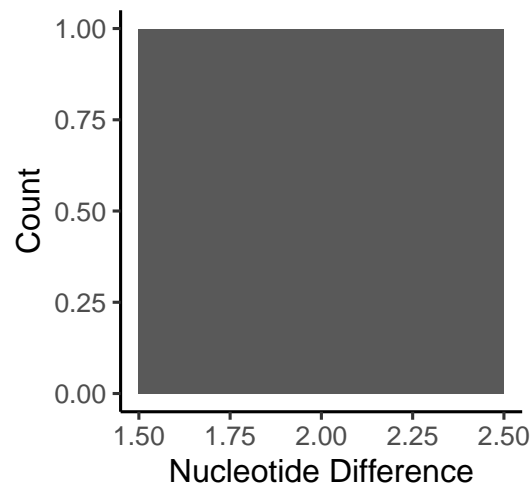
IGHV4-39*07

1558 sequences assigned
1128 (72.4%) exact matches, in which:
1082 unique CDR3
6 unique J



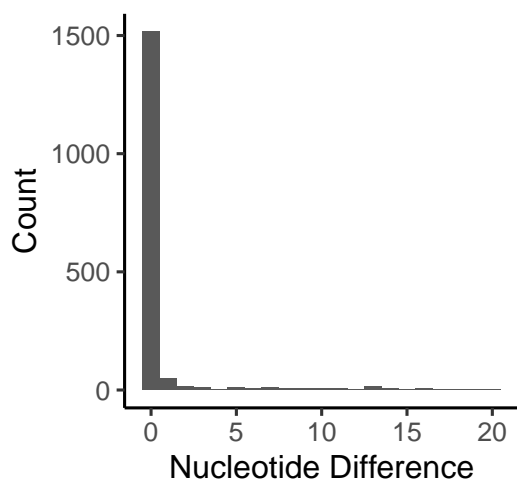
IGHV4-61*01

1 sequences assigned
No exact matches.



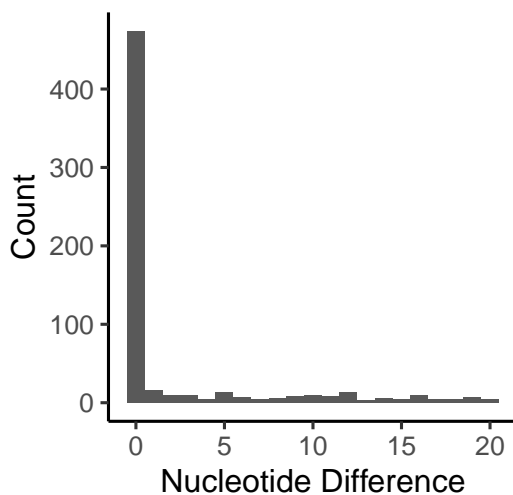
IGHV4-34*01_02

1736 sequences assigned
1516 (87.3%) exact matches, in which:
1467 unique CDR3
6 unique J



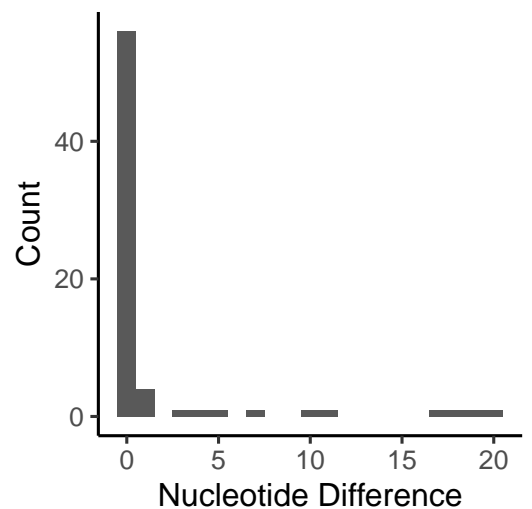
IGHV4-59*08

694 sequences assigned
474 (68.3%) exact matches, in which:
461 unique CDR3
6 unique J



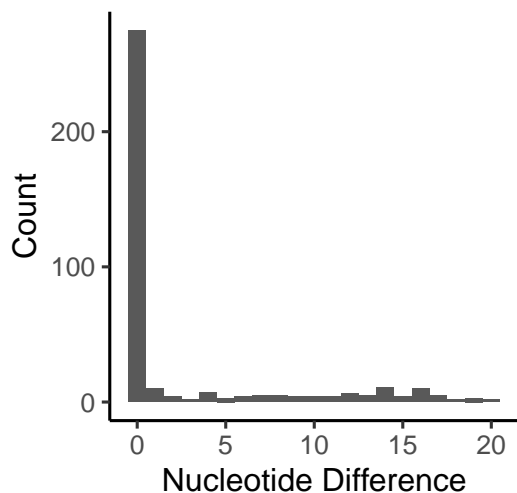
IGHV5-10-1*01_03

76 sequences assigned
56 (73.7%) exact matches, in which:
56 unique CDR3
5 unique J



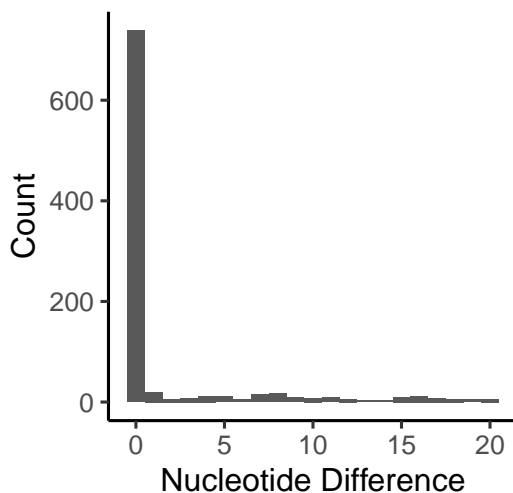
IGHV4-38-2*02

398 sequences assigned
275 (69.1%) exact matches, in which:
270 unique CDR3
6 unique J



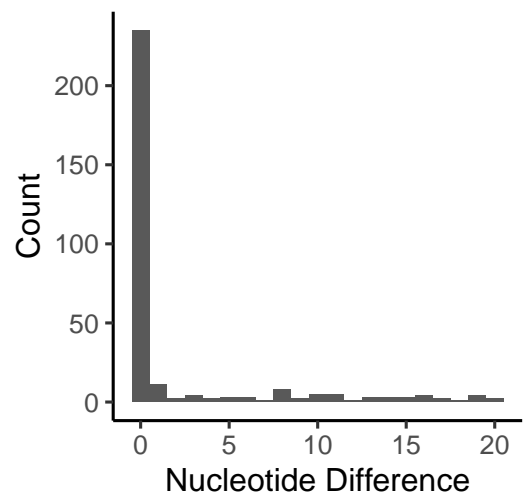
IGHV4-59*02_G88A

995 sequences assigned
739 (74.3%) exact matches, in which:
723 unique CDR3
6 unique J



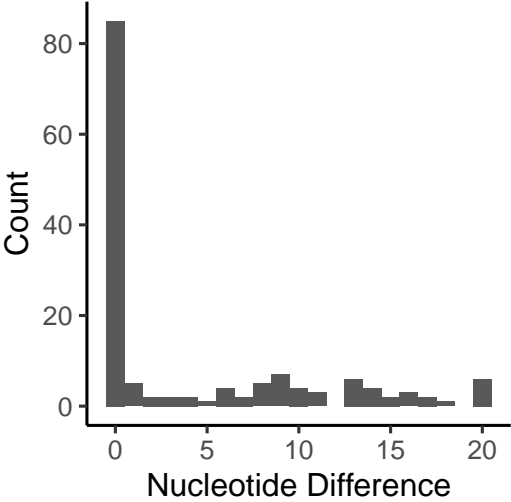
IGHV5-51*07_A128G

323 sequences assigned
235 (72.8%) exact matches, in which:
234 unique CDR3
6 unique J



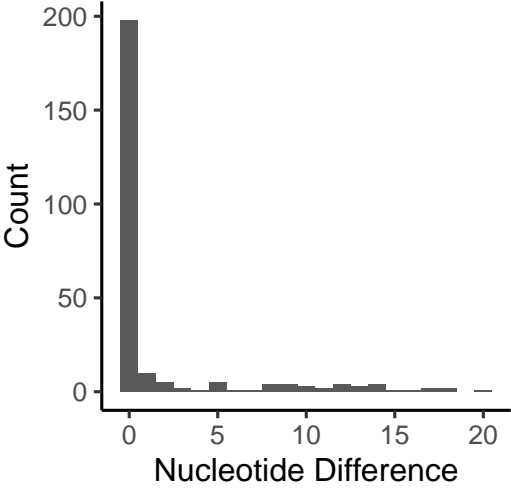
IGHV6-1*01_02

168 sequences assigned
85 (50.6%) exact matches, in which:
85 unique CDR3
5 unique J



IGHV7-4-1*02

270 sequences assigned
198 (73.3%) exact matches, in which:
198 unique CDR3
5 unique J





Warning – no inferred sequences found.