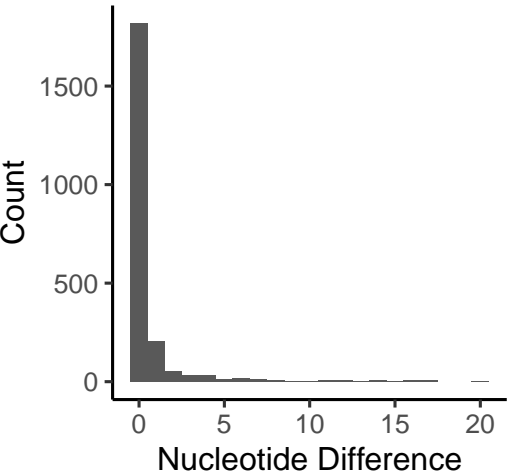


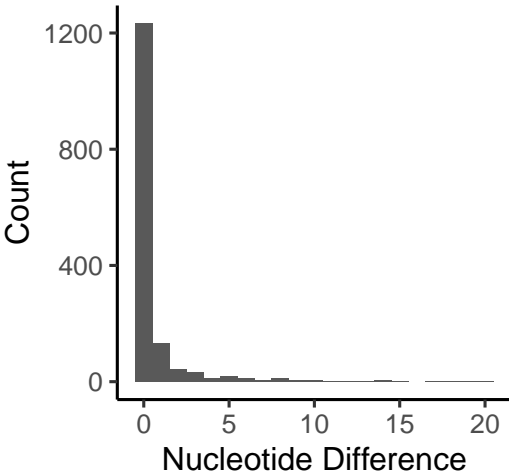
IGHV1-2*02

2272 sequences assigned
1818 (80%) exact matches, in which:
1698 unique CDR3
6 unique J



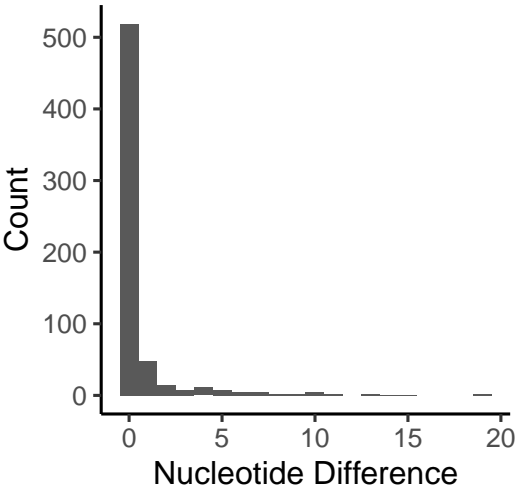
IGHV1-18*01

1535 sequences assigned
1233 (80.3%) exact matches, in which:
1182 unique CDR3
6 unique J



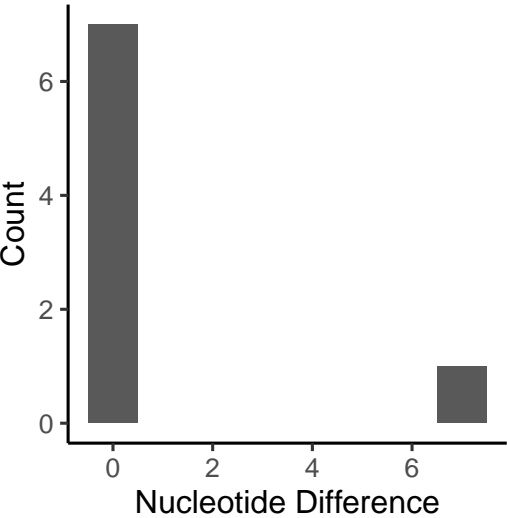
IGHV1-46*03

635 sequences assigned
519 (81.7%) exact matches, in which:
483 unique CDR3
6 unique J



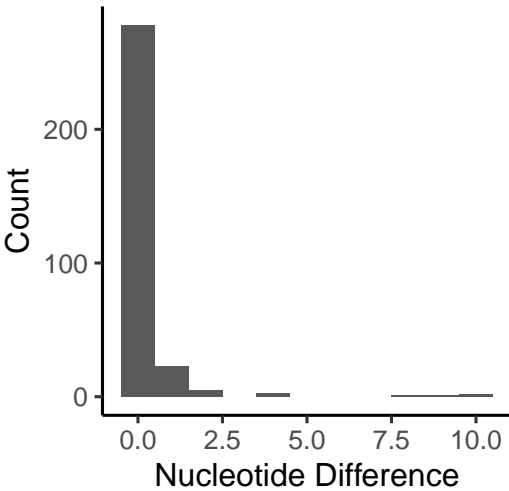
IGHV1-3*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



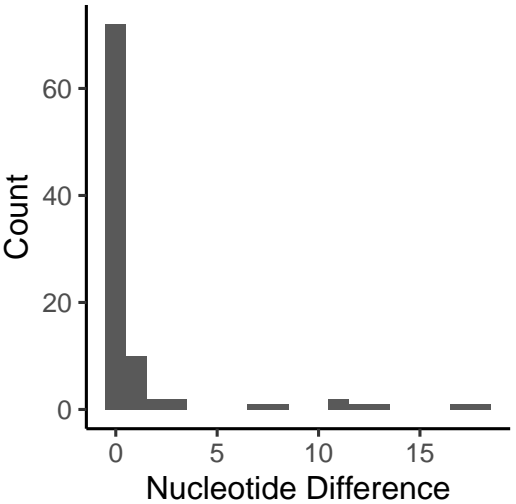
IGHV1-24*01

313 sequences assigned
278 (88.8%) exact matches, in which:
265 unique CDR3
6 unique J



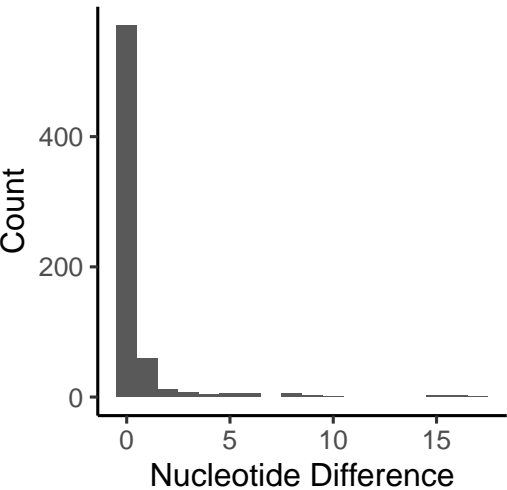
IGHV1-58*02

96 sequences assigned
72 (75%) exact matches, in which:
69 unique CDR3
5 unique J



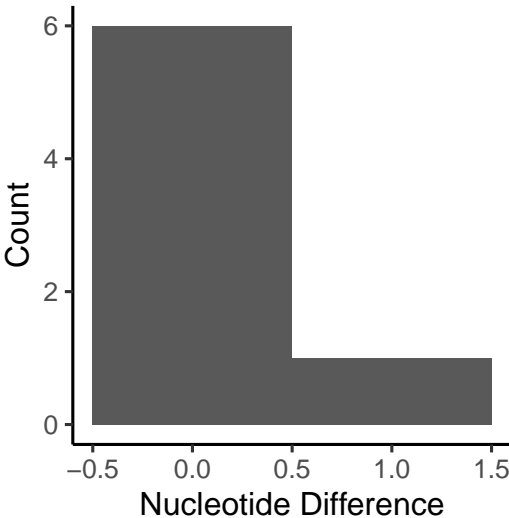
IGHV1-8*01

680 sequences assigned
571 (84%) exact matches, in which:
535 unique CDR3
6 unique J



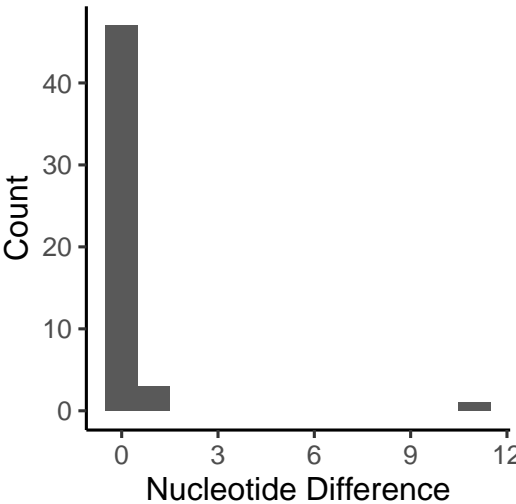
IGHV1-45*02

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



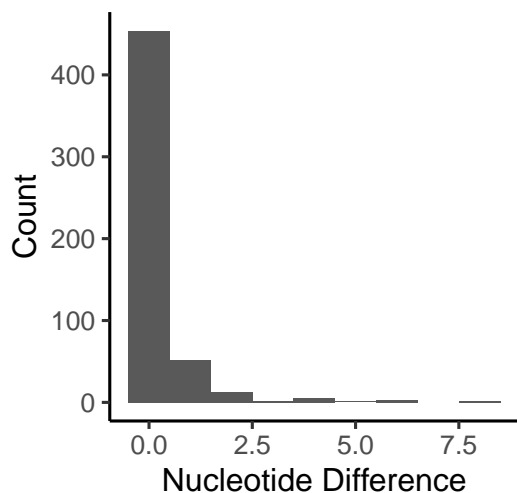
IGHV1-69-2*01

51 sequences assigned
47 (92.2%) exact matches, in which:
47 unique CDR3
5 unique J



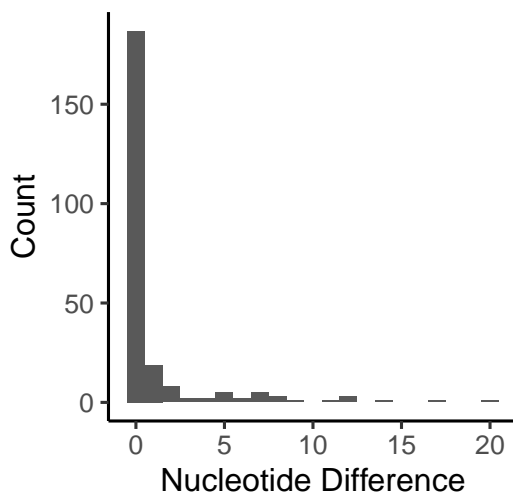
IGHV1-69*02

533 sequences assigned
454 (85.2%) exact matches, in which:
429 unique CDR3
6 unique J



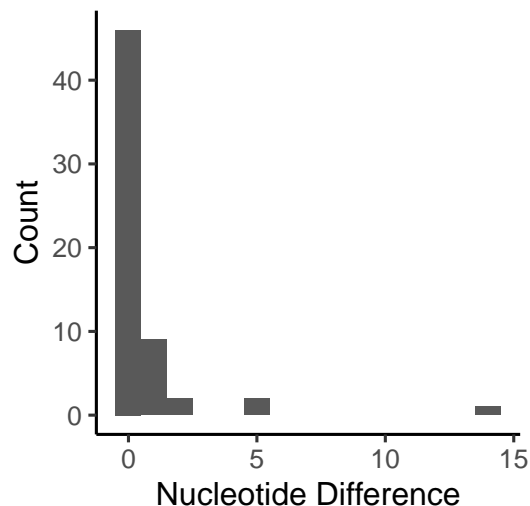
IGHV2-5*01

243 sequences assigned
187 (77%) exact matches, in which:
181 unique CDR3
6 unique J



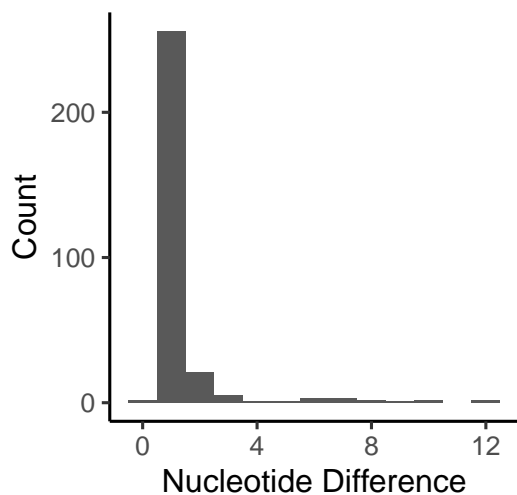
IGHV2-70*01

61 sequences assigned
46 (75.4%) exact matches, in which:
46 unique CDR3
4 unique J



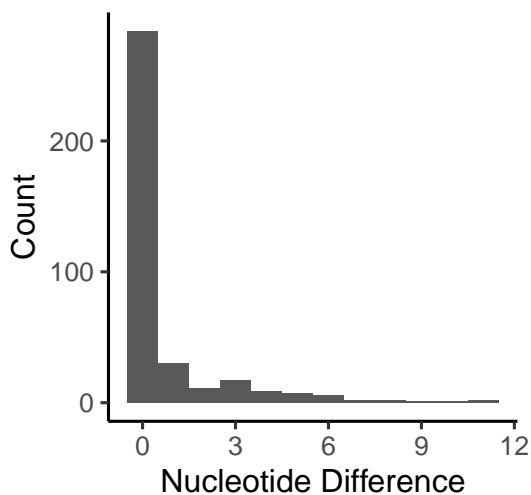
IGHV1-69*08

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



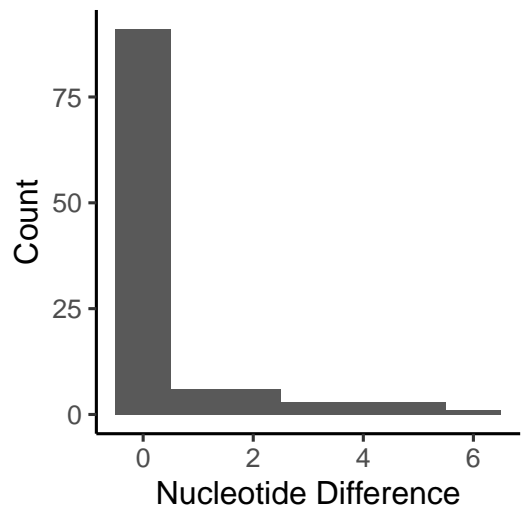
IGHV2-5*02

373 sequences assigned
284 (76.1%) exact matches, in which:
277 unique CDR3
6 unique J



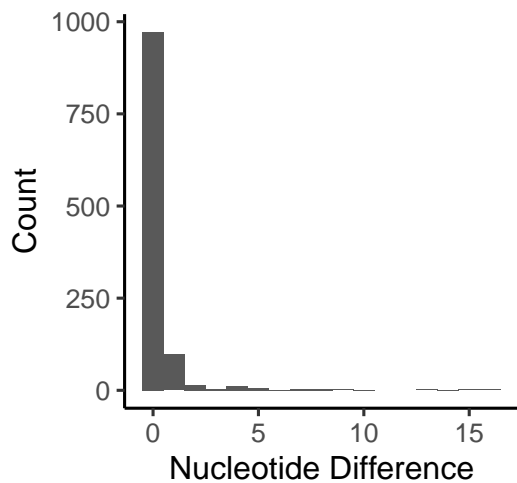
IGHV2-70*15

113 sequences assigned
91 (80.5%) exact matches, in which:
86 unique CDR3
6 unique J



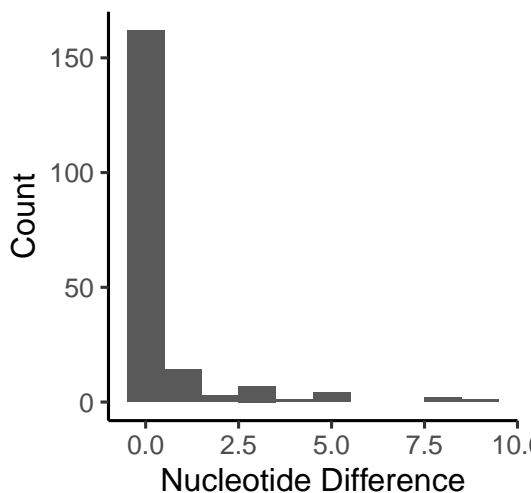
IGHV1-69*09

1129 sequences assigned
972 (86.1%) exact matches, in which:
907 unique CDR3
6 unique J



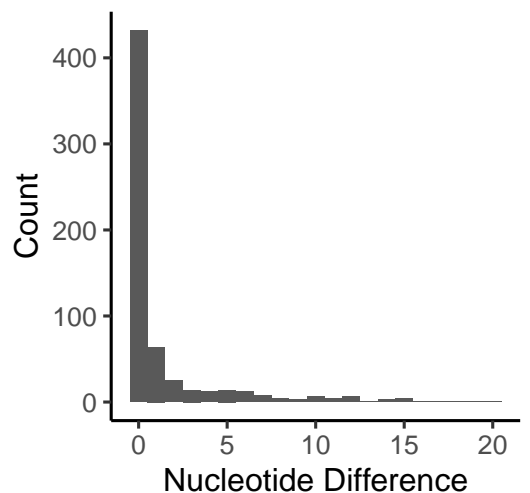
IGHV2-26*01

194 sequences assigned
162 (83.5%) exact matches, in which:
156 unique CDR3
6 unique J



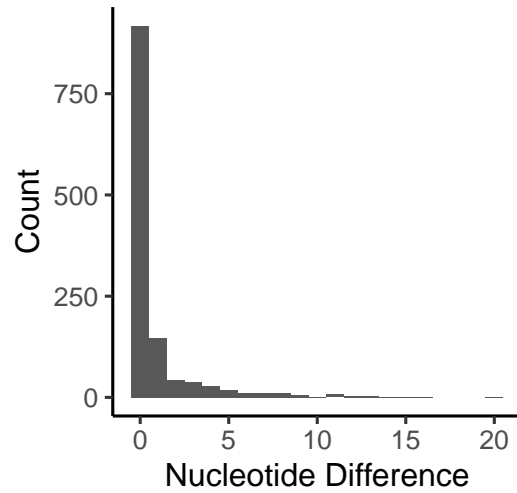
IGHV3-7*01

628 sequences assigned
432 (68.8%) exact matches, in which:
414 unique CDR3
6 unique J



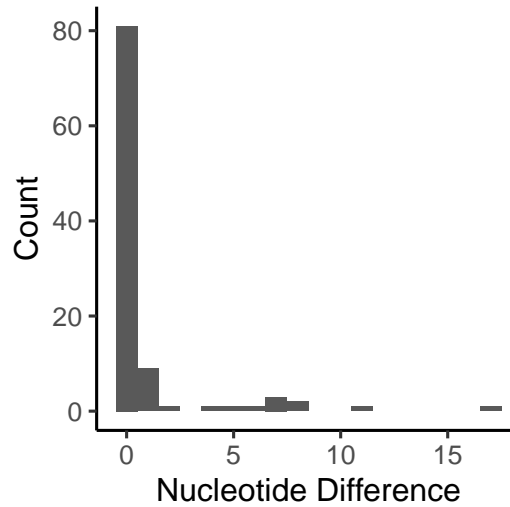
IGHV3-9*01

1250 sequences assigned
918 (73.4%) exact matches, in which:
854 unique CDR3
6 unique J



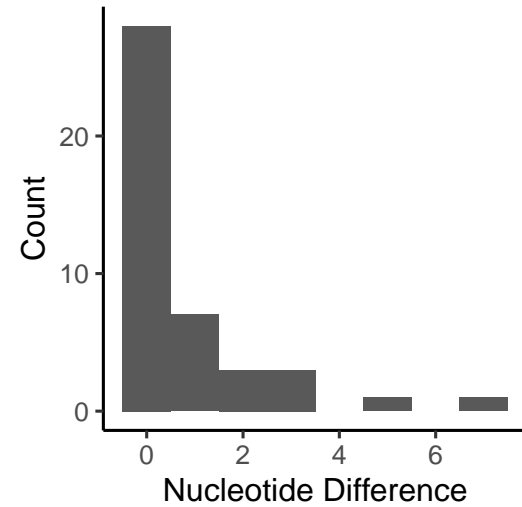
IGHV3-13*01

101 sequences assigned
81 (80.2%) exact matches, in which:
77 unique CDR3
5 unique J



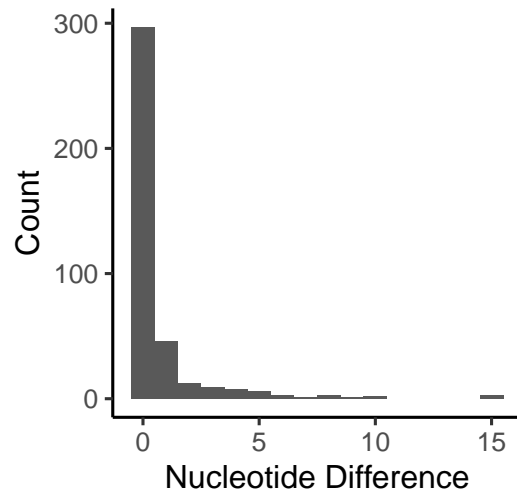
IGHV3-20*01

43 sequences assigned
28 (65.1%) exact matches, in which:
26 unique CDR3
4 unique J



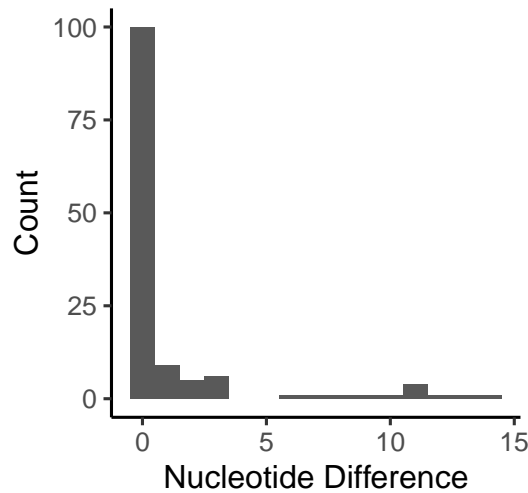
IGHV3-11*01

395 sequences assigned
297 (75.2%) exact matches, in which:
285 unique CDR3
6 unique J



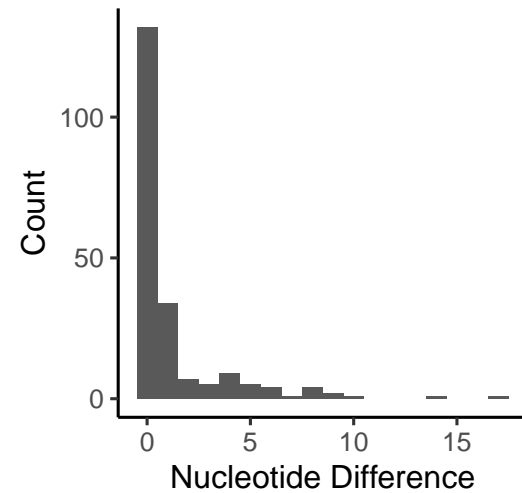
IGHV3-13*04

132 sequences assigned
100 (75.8%) exact matches, in which:
91 unique CDR3
5 unique J



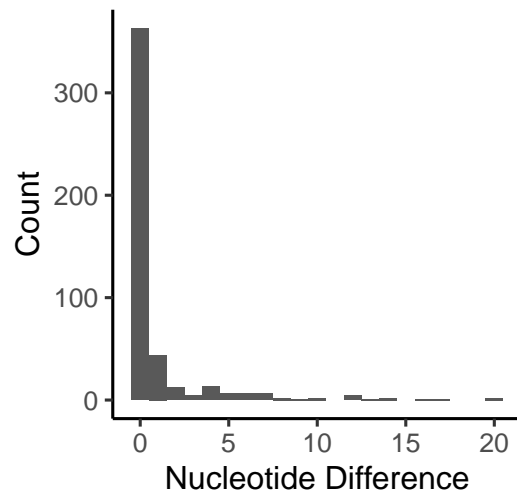
IGHV3-20*04

207 sequences assigned
132 (63.8%) exact matches, in which:
123 unique CDR3
5 unique J



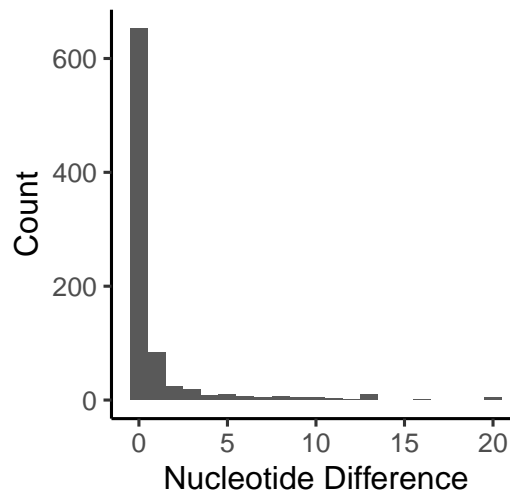
IGHV3-11*05

475 sequences assigned
363 (76.4%) exact matches, in which:
346 unique CDR3
6 unique J



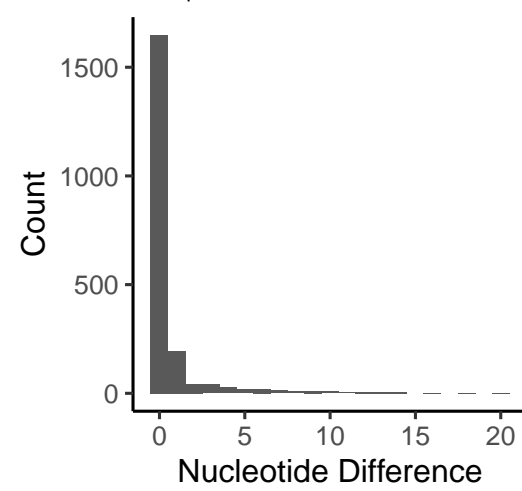
IGHV3-15*01

851 sequences assigned
653 (76.7%) exact matches, in which:
619 unique CDR3
6 unique J



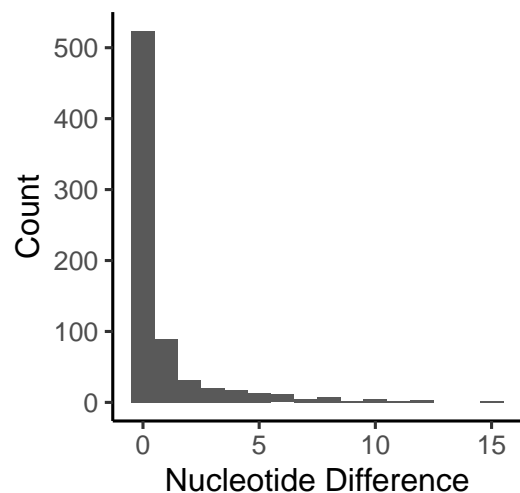
IGHV3-21*01

2056 sequences assigned
1648 (80.2%) exact matches, in which:
1546 unique CDR3
6 unique J



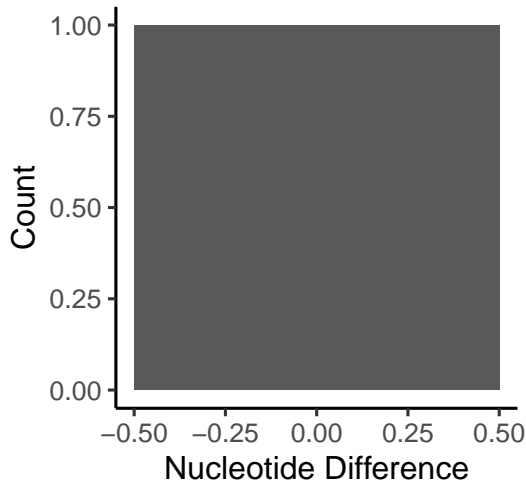
IGHV3–33*01

740 sequences assigned
524 (70.8%) exact matches, in which:
493 unique CDR3
6 unique J



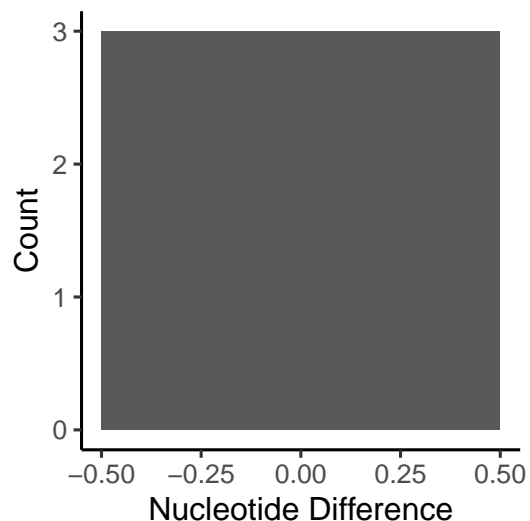
IGHV3–47*02

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



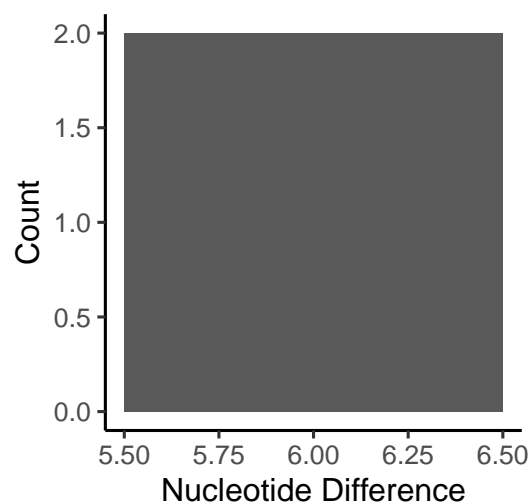
IGHV3–52*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



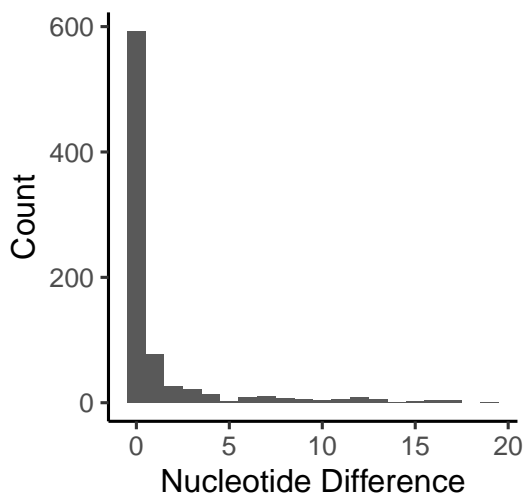
IGHV3–41*02

2 sequences assigned
No exact matches.



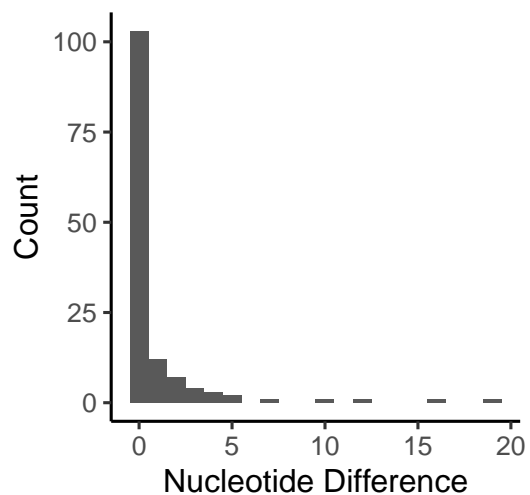
IGHV3–48*01

801 sequences assigned
593 (74%) exact matches, in which:
562 unique CDR3
6 unique J



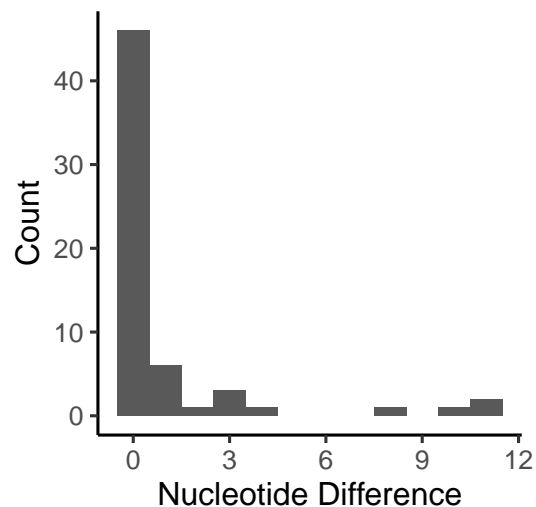
IGHV3–53*02

136 sequences assigned
103 (75.7%) exact matches, in which:
94 unique CDR3
5 unique J



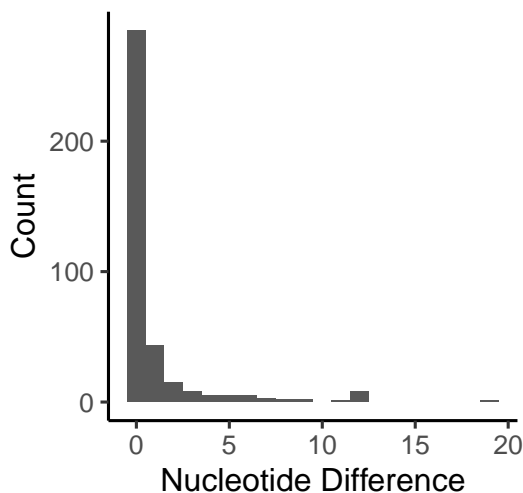
IGHV3–43*01

61 sequences assigned
46 (75.4%) exact matches, in which:
45 unique CDR3
4 unique J



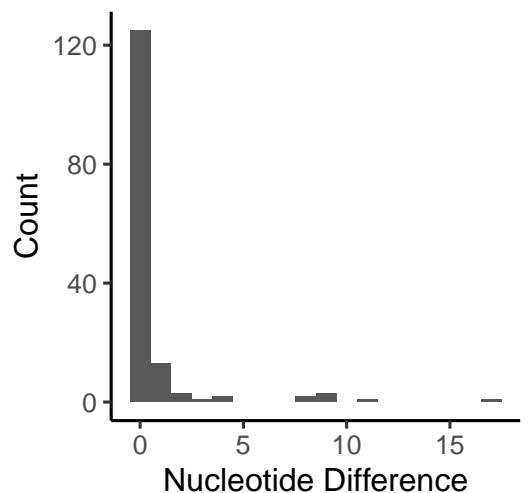
IGHV3–49*03

383 sequences assigned
285 (74.4%) exact matches, in which:
268 unique CDR3
5 unique J



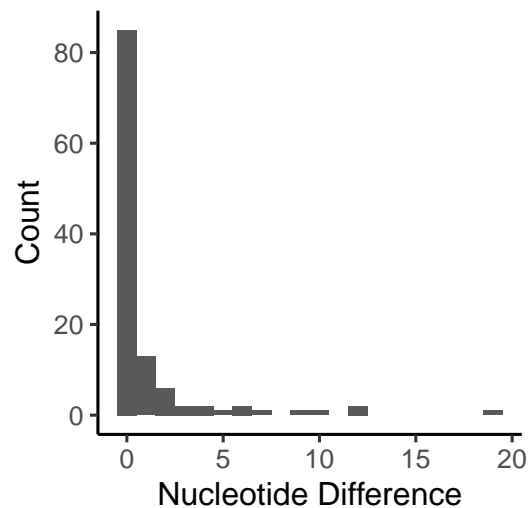
IGHV3–53*04

153 sequences assigned
125 (81.7%) exact matches, in which:
117 unique CDR3
6 unique J



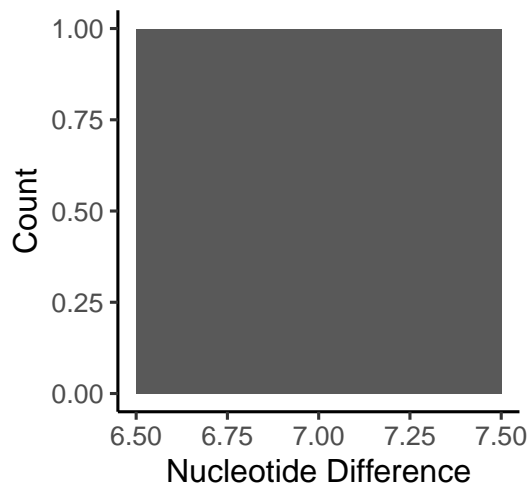
IGHV3-64*01

126 sequences assigned
85 (67.5%) exact matches, in which:
81 unique CDR3
5 unique J



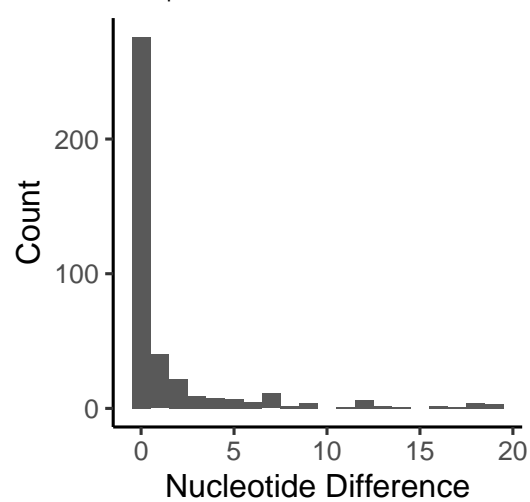
IGHV3-69-1*01

1 sequences assigned
No exact matches.



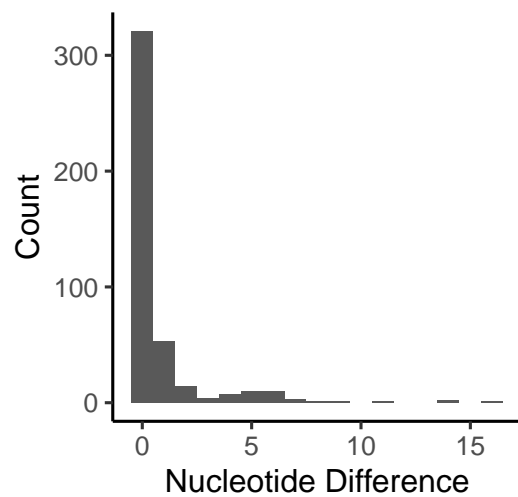
IGHV3-74*01

406 sequences assigned
276 (68%) exact matches, in which:
256 unique CDR3
6 unique J



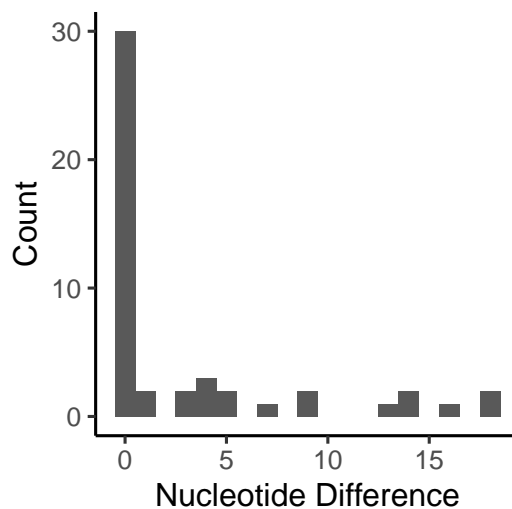
IGHV3-66*01

429 sequences assigned
321 (74.8%) exact matches, in which:
298 unique CDR3
6 unique J



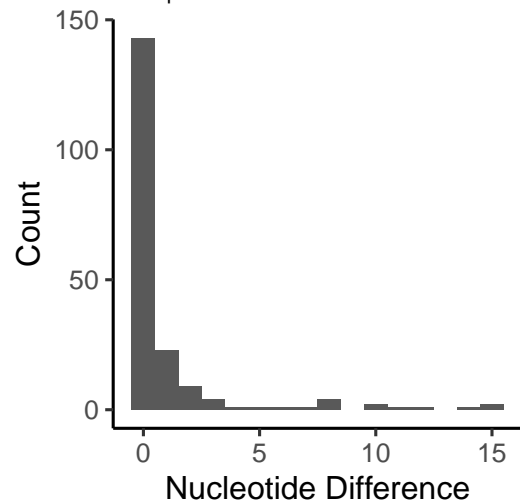
IGHV3-72*01

49 sequences assigned
30 (61.2%) exact matches, in which:
28 unique CDR3
5 unique J



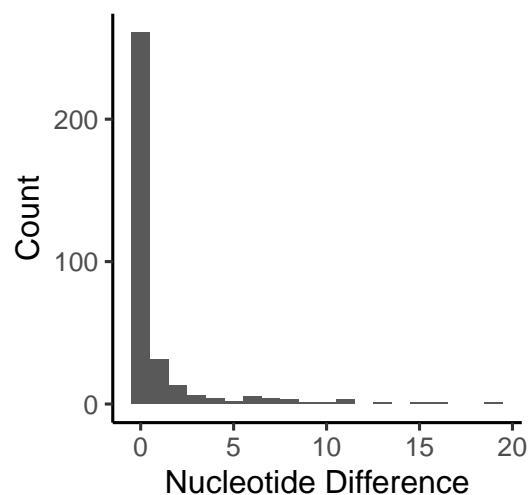
IGHV3-64D*09

195 sequences assigned
143 (73.3%) exact matches, in which:
134 unique CDR3
5 unique J



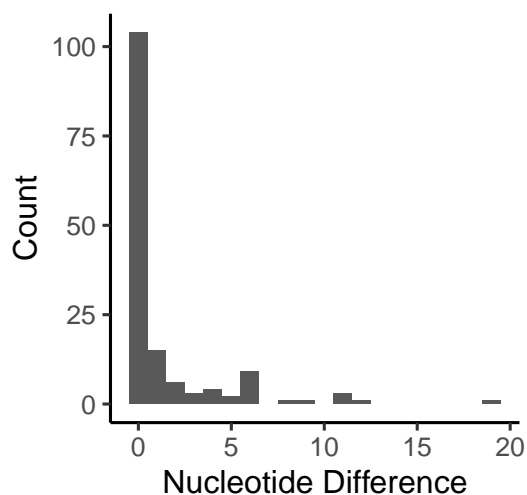
IGHV3-66*02

339 sequences assigned
261 (77%) exact matches, in which:
248 unique CDR3
6 unique J



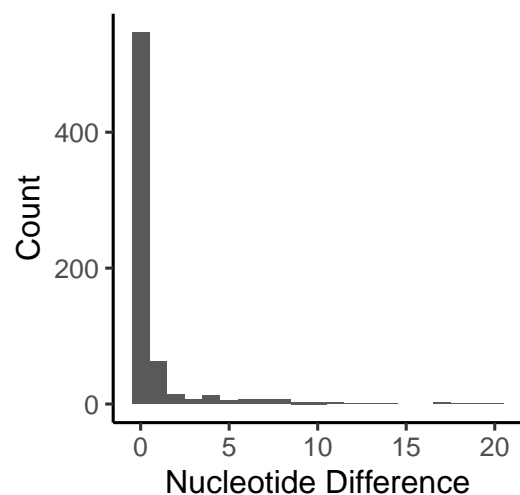
IGHV3-73*01

151 sequences assigned
104 (68.9%) exact matches, in which:
99 unique CDR3
5 unique J



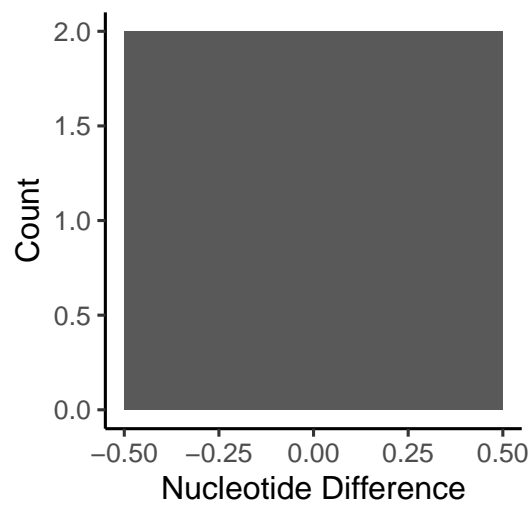
IGHV4-4*07

688 sequences assigned
547 (79.5%) exact matches, in which:
527 unique CDR3
6 unique J



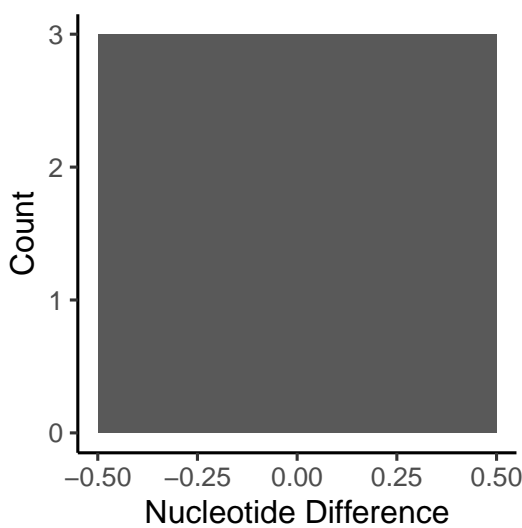
IGHV4-28*01

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



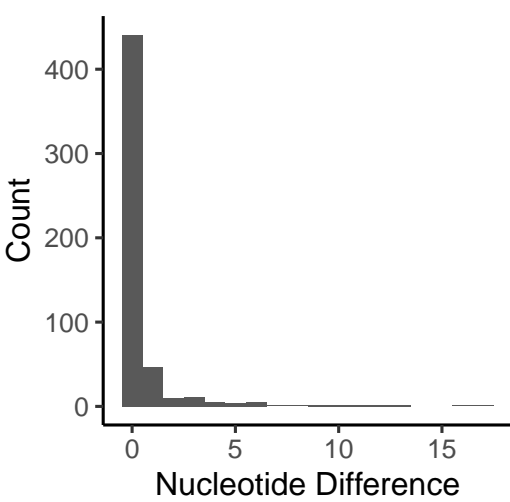
IGHV4-28*07

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
2 unique J



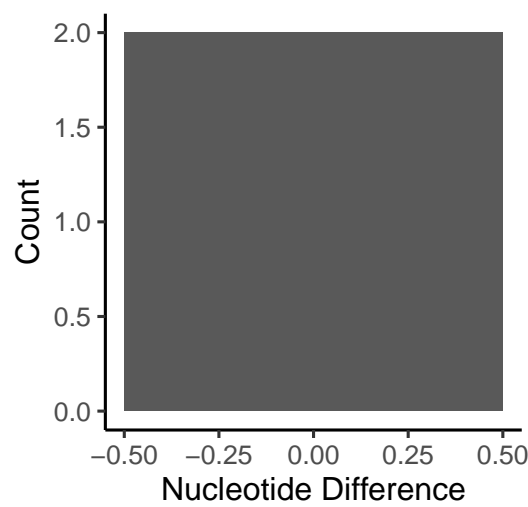
IGHV4-31*03

539 sequences assigned
441 (81.8%) exact matches, in which:
419 unique CDR3
6 unique J



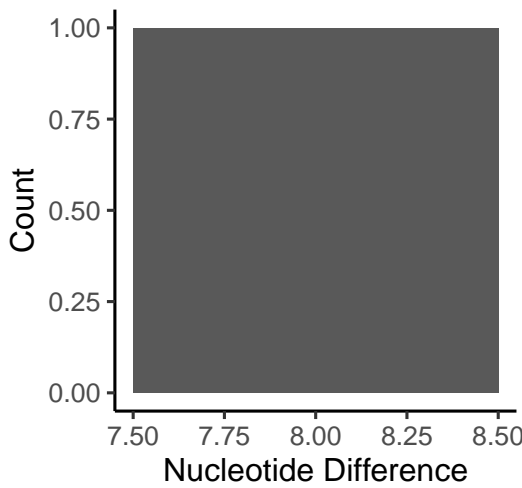
IGHV4-28*03

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



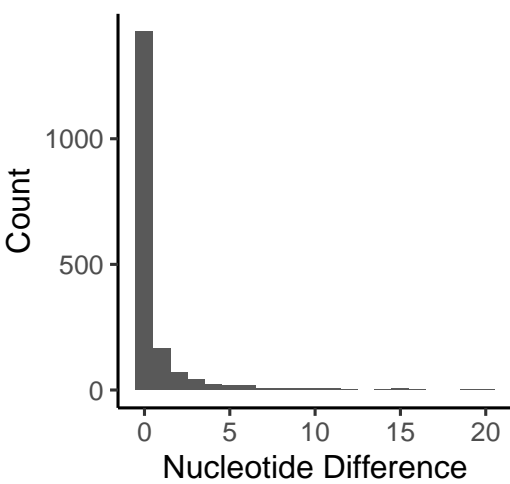
IGHV4-30-4*02

1 sequences assigned
No exact matches.



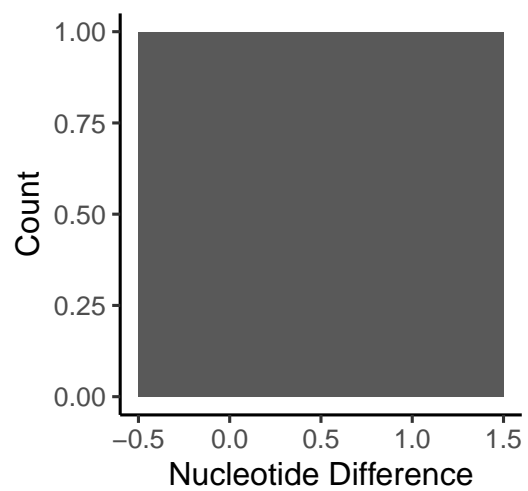
IGHV4-34*01

1813 sequences assigned
1426 (78.7%) exact matches, in which:
1322 unique CDR3
6 unique J



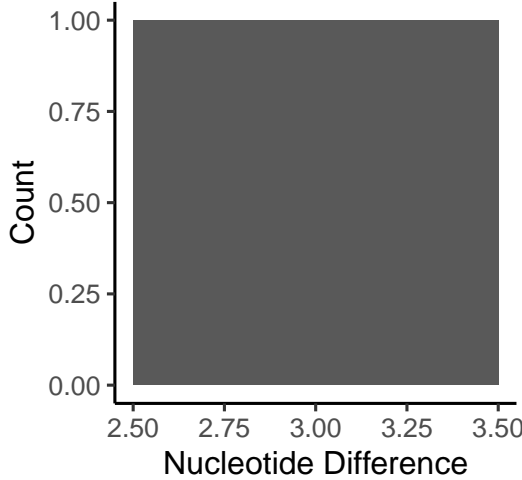
IGHV4-28*04

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



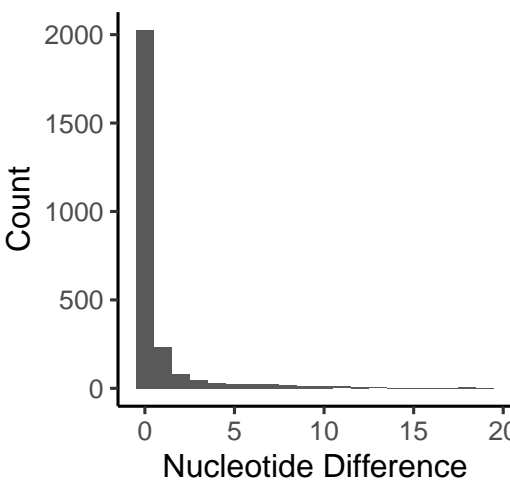
IGHV4-30-2*03

1 sequences assigned
No exact matches.



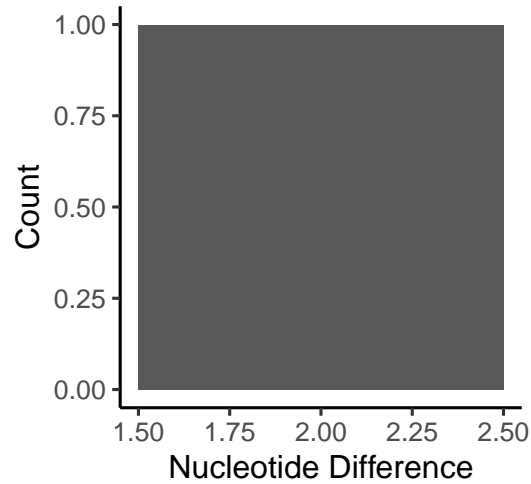
IGHV4-39*01

2585 sequences assigned
2026 (78.4%) exact matches, in which:
1884 unique CDR3
6 unique J



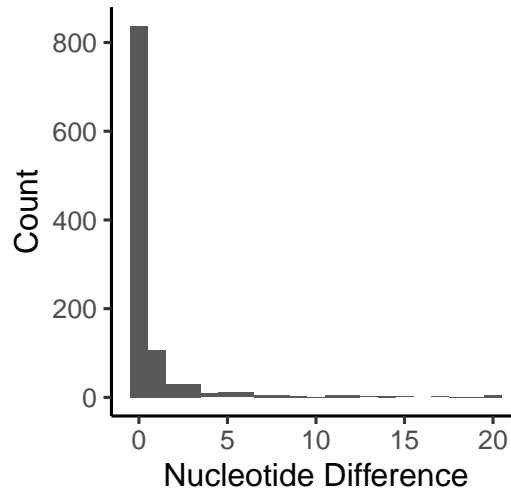
IGHV4–55*08

1 sequences assigned
No exact matches.



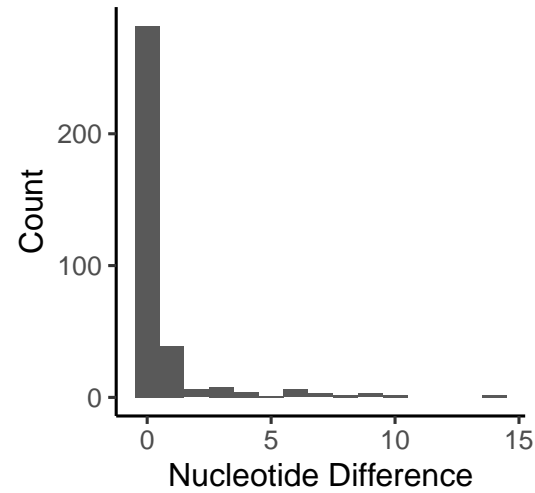
IGHV4–61*02

1091 sequences assigned
838 (76.8%) exact matches, in which:
812 unique CDR3
6 unique J



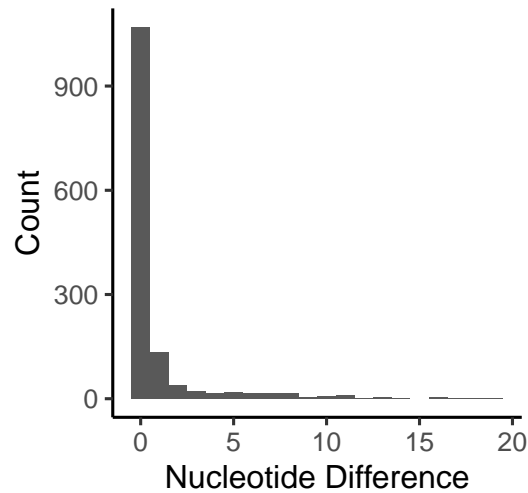
IGHV5–10–1*01

358 sequences assigned
282 (78.8%) exact matches, in which:
266 unique CDR3
5 unique J



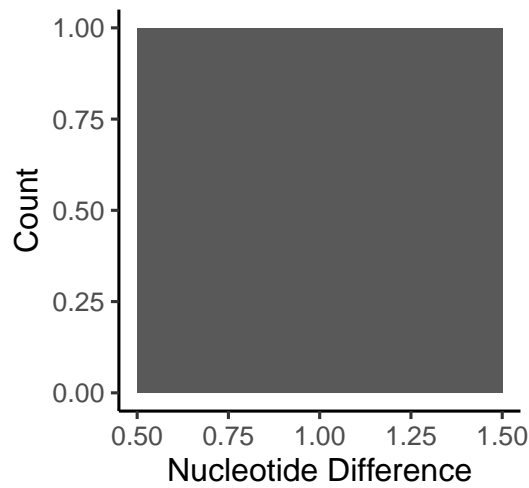
IGHV4–59*01

1387 sequences assigned
1070 (77.1%) exact matches, in which:
1015 unique CDR3
6 unique J



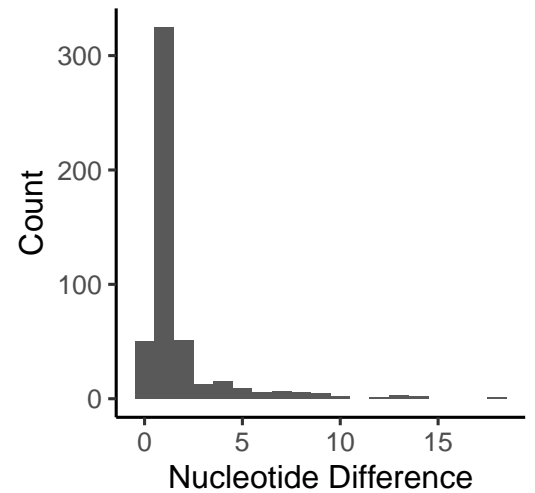
IGHV1/OR15–1*03

1 sequences assigned
No exact matches.



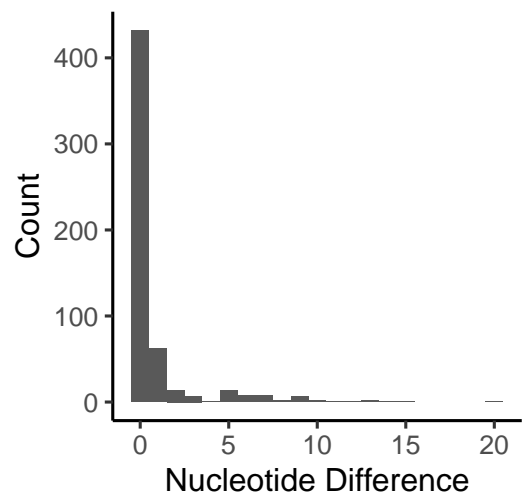
IGHV5–51*01

496 sequences assigned
50 (10.1%) exact matches, in which:
50 unique CDR3
5 unique J



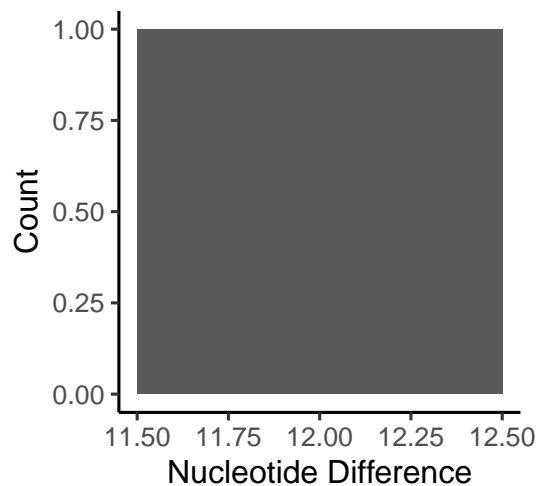
IGHV4–59*08

564 sequences assigned
432 (76.6%) exact matches, in which:
415 unique CDR3
6 unique J



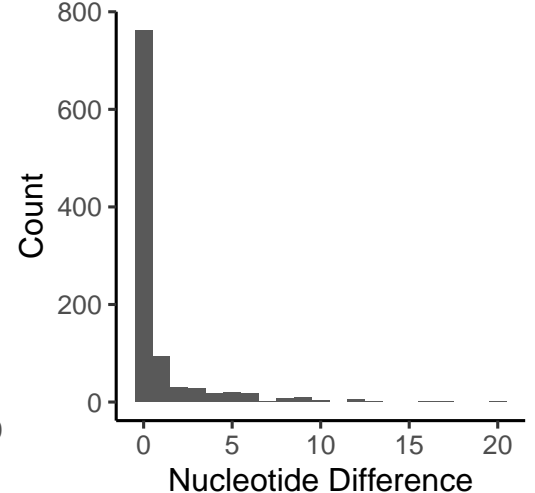
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



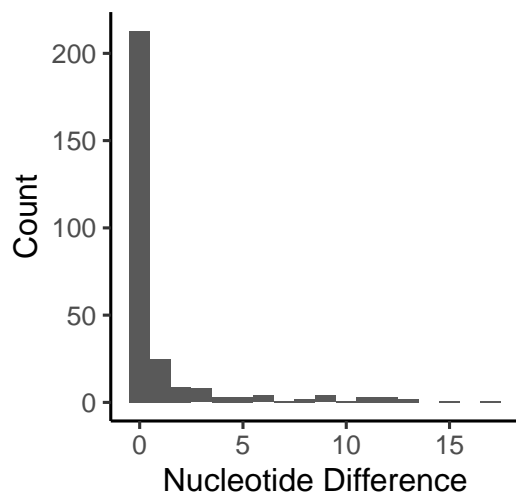
IGHV5–51*03

1008 sequences assigned
762 (75.6%) exact matches, in which:
716 unique CDR3
6 unique J



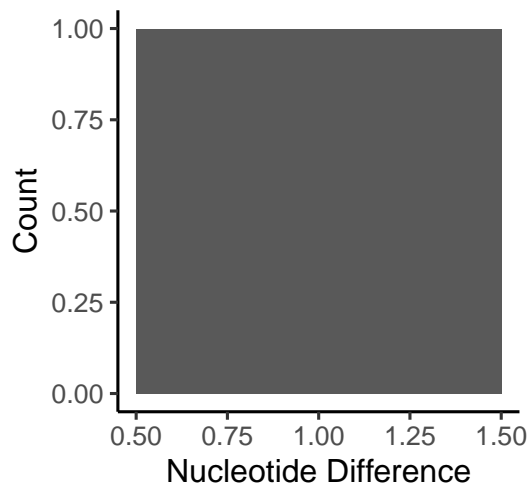
IGHV6-1*01

285 sequences assigned
213 (74.7%) exact matches, in which:
202 unique CDR3
6 unique J



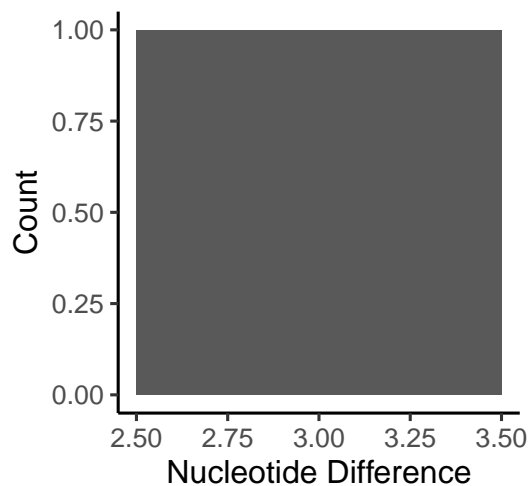
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



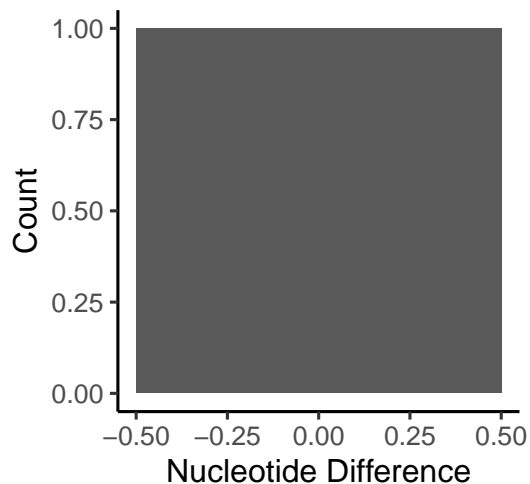
IGHV3/OR16-6*02

1 sequences assigned
No exact matches.



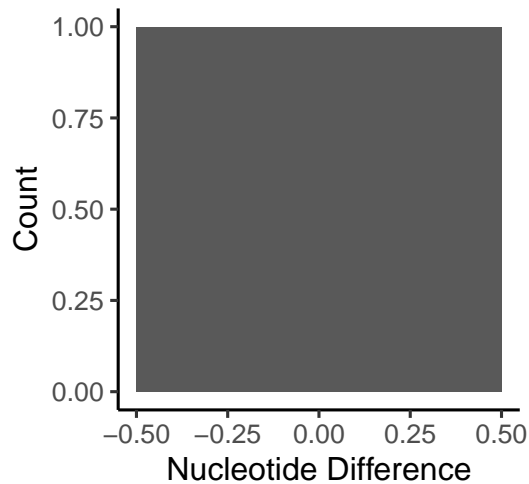
IGHV7-81*01

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



IGHV3/OR16-9*01

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





Warning – no inferred sequences found.