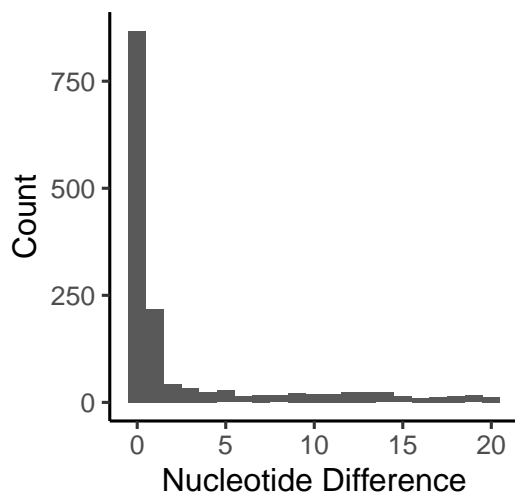


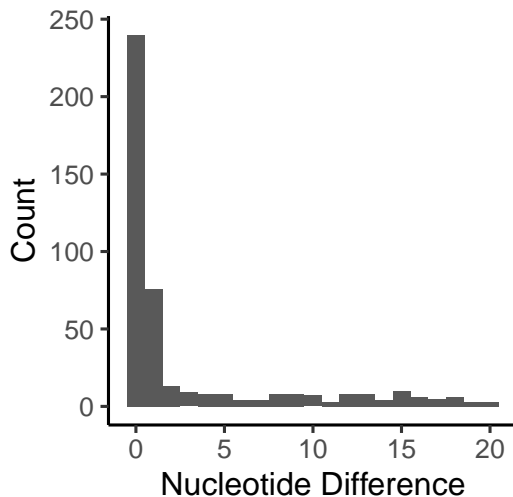
IGHV1-2*02

1669 sequences assigned
868 (52%) exact matches, in which:
865 unique CDR3
6 unique J



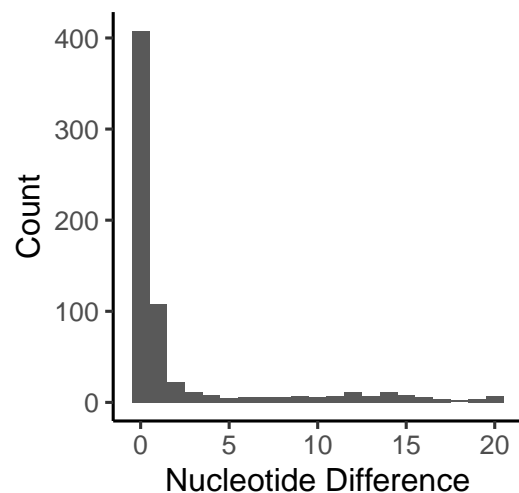
IGHV1-3*01

554 sequences assigned
240 (43.3%) exact matches, in which:
239 unique CDR3
6 unique J



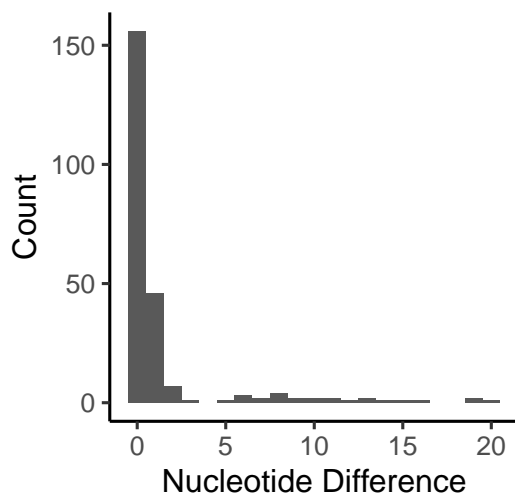
IGHV1-18*04

790 sequences assigned
408 (51.6%) exact matches, in which:
406 unique CDR3
6 unique J



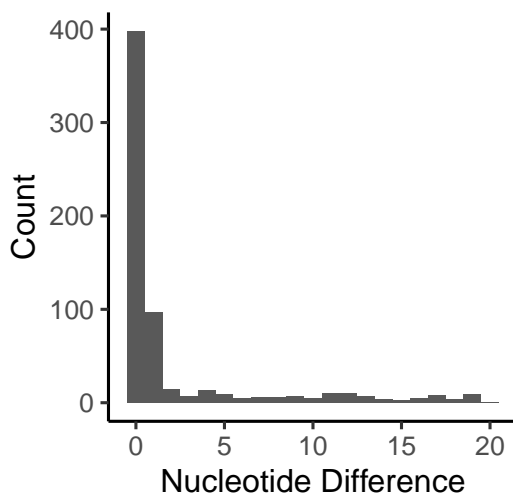
IGHV1-2*04

242 sequences assigned
156 (64.5%) exact matches, in which:
156 unique CDR3
4 unique J



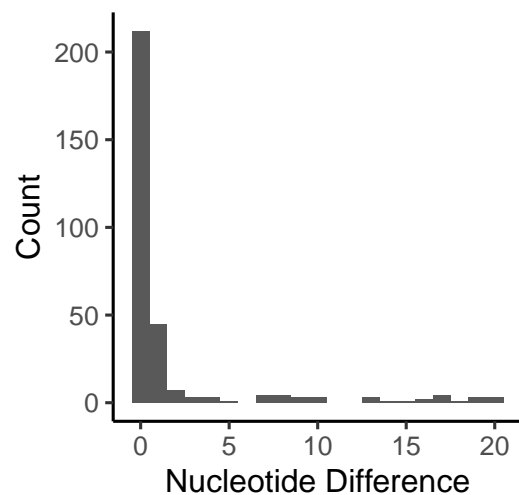
IGHV1-8*01

676 sequences assigned
398 (58.9%) exact matches, in which:
396 unique CDR3
6 unique J



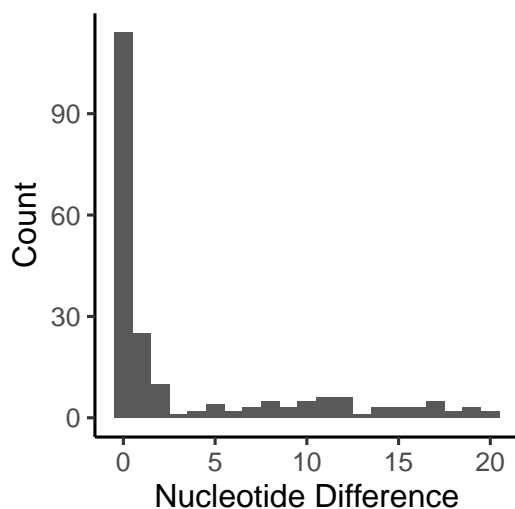
IGHV1-24*01

351 sequences assigned
212 (60.4%) exact matches, in which:
211 unique CDR3
6 unique J



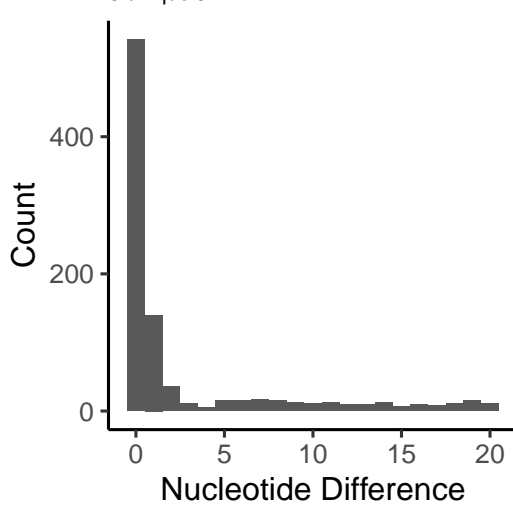
IGHV1-2*02_T174C

271 sequences assigned
114 (42.1%) exact matches, in which:
114 unique CDR3
5 unique J



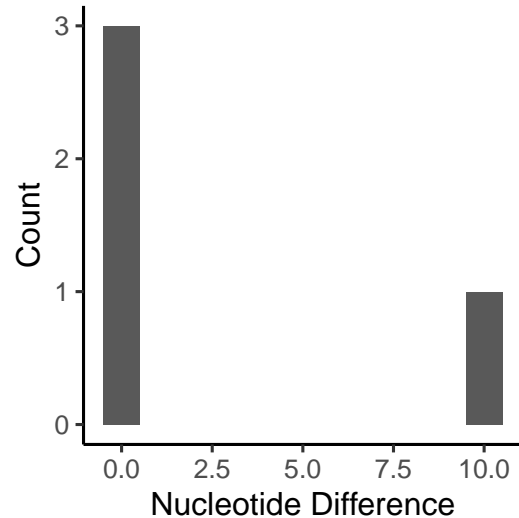
IGHV1-18*01

1190 sequences assigned
542 (45.5%) exact matches, in which:
542 unique CDR3
6 unique J



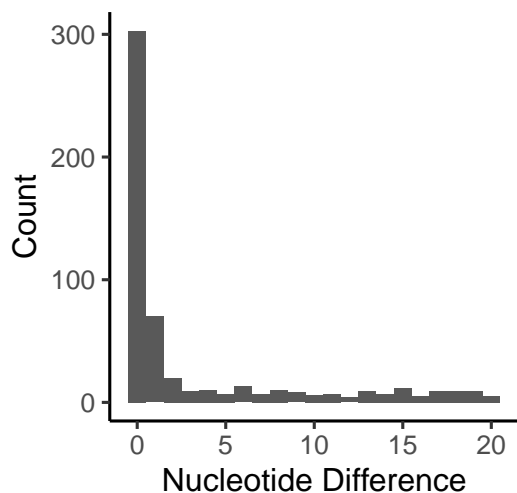
IGHV1-45*02

18 sequences assigned
3 (16.7%) exact matches, in which:
3 unique CDR3
3 unique J



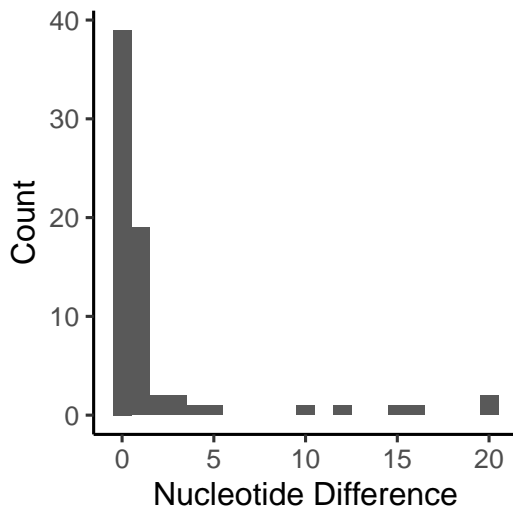
IGHV1-46*01

655 sequences assigned
303 (46.3%) exact matches, in which:
303 unique CDR3
6 unique J



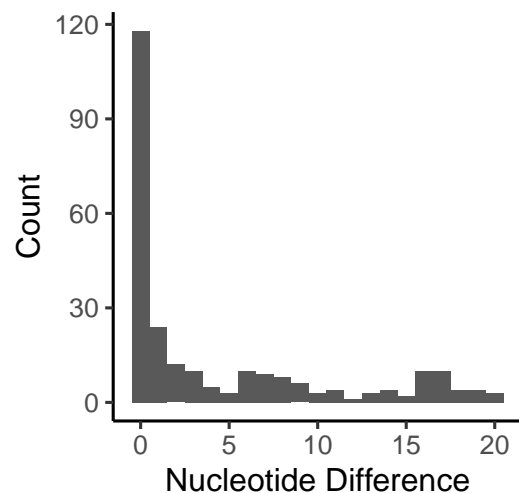
IGHV1-58*02

77 sequences assigned
39 (50.6%) exact matches, in which:
38 unique CDR3
5 unique J



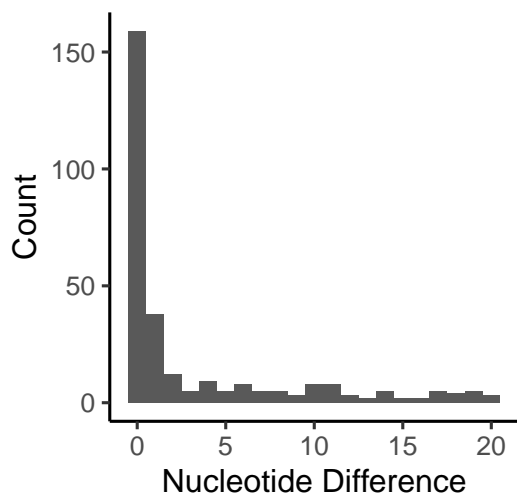
IGHV2-5*02

320 sequences assigned
118 (36.9%) exact matches, in which:
118 unique CDR3
6 unique J



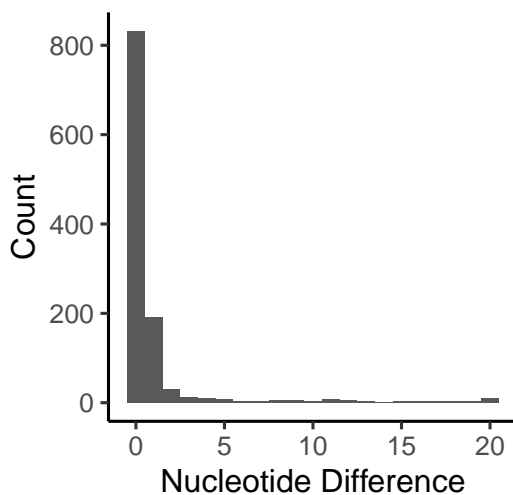
IGHV1-46*03

329 sequences assigned
159 (48.3%) exact matches, in which:
158 unique CDR3
6 unique J



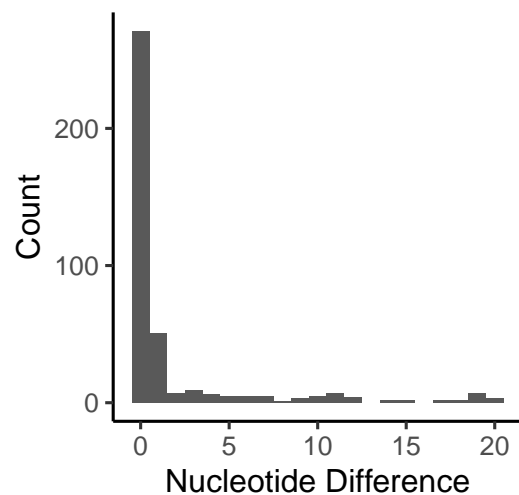
IGHV1-69*10

1334 sequences assigned
832 (62.4%) exact matches, in which:
831 unique CDR3
6 unique J



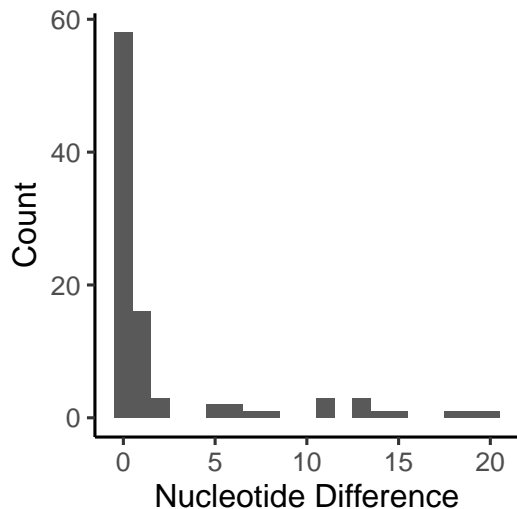
IGHV2-26*01

437 sequences assigned
271 (62%) exact matches, in which:
271 unique CDR3
5 unique J



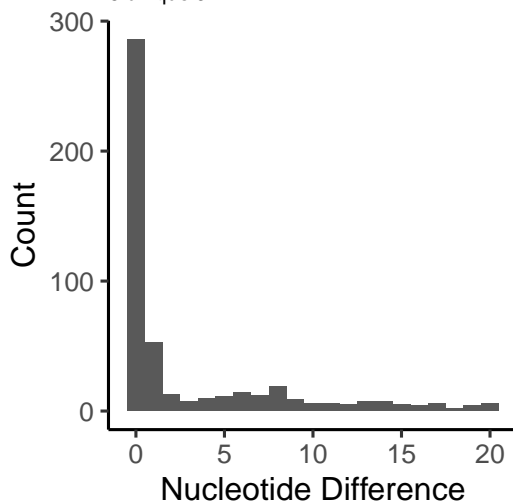
IGHV1-58*01

103 sequences assigned
58 (56.3%) exact matches, in which:
58 unique CDR3
6 unique J



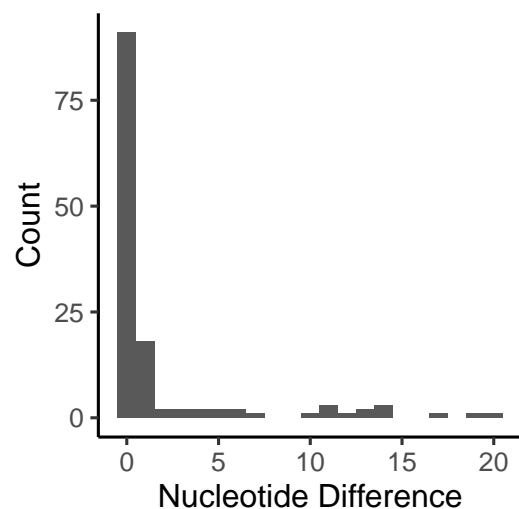
IGHV2-5*01

524 sequences assigned
286 (54.6%) exact matches, in which:
286 unique CDR3
6 unique J



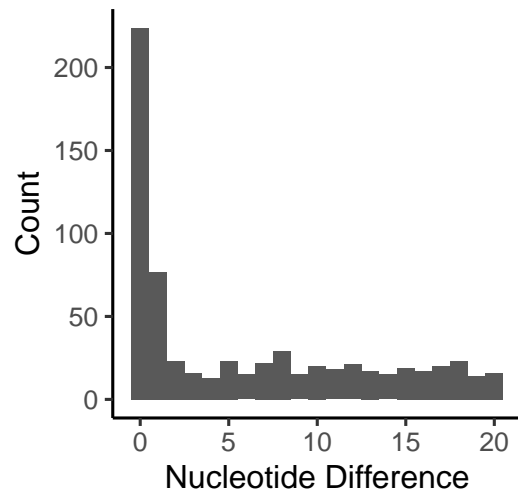
IGHV2-70*01

145 sequences assigned
91 (62.8%) exact matches, in which:
91 unique CDR3
5 unique J



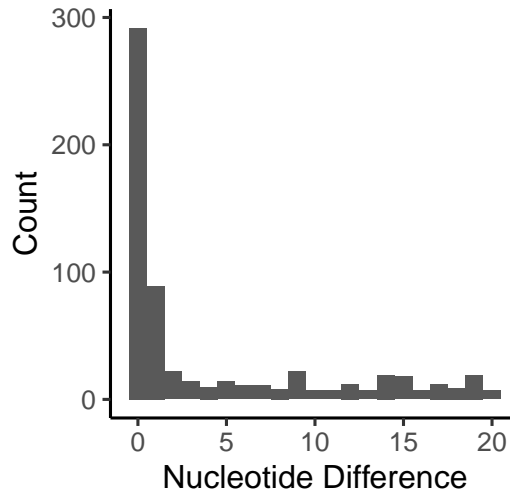
IGHV3-7*01

780 sequences assigned
224 (28.7%) exact matches, in which:
223 unique CDR3
6 unique J



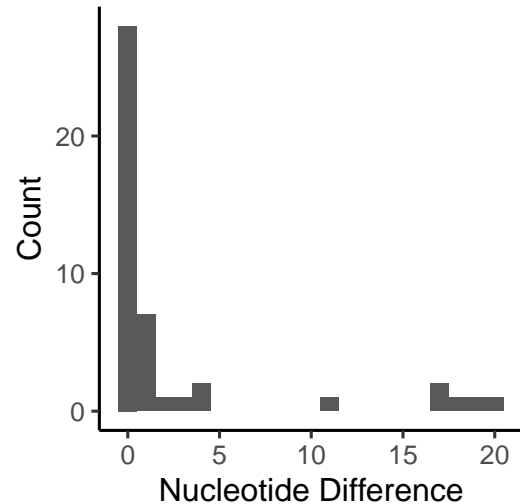
IGHV3-11*01

728 sequences assigned
292 (40.1%) exact matches, in which:
291 unique CDR3
6 unique J



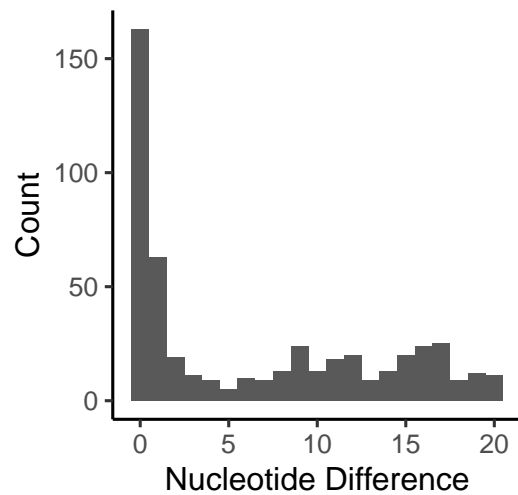
IGHV3-13*05

46 sequences assigned
28 (60.9%) exact matches, in which:
28 unique CDR3
4 unique J



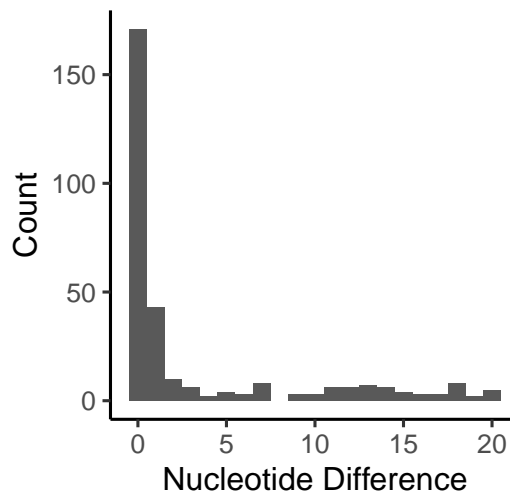
IGHV3-7*03

630 sequences assigned
163 (25.9%) exact matches, in which:
162 unique CDR3
5 unique J



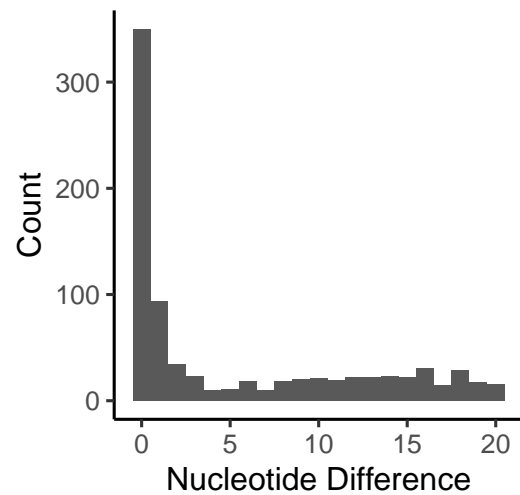
IGHV3-11*06

526 sequences assigned
171 (32.5%) exact matches, in which:
171 unique CDR3
6 unique J



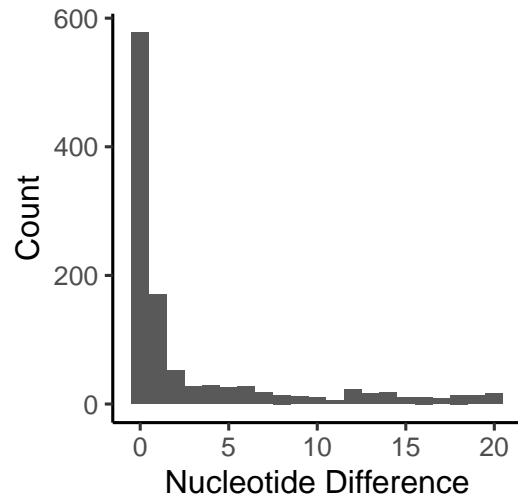
IGHV3-15*01

1022 sequences assigned
350 (34.2%) exact matches, in which:
349 unique CDR3
6 unique J



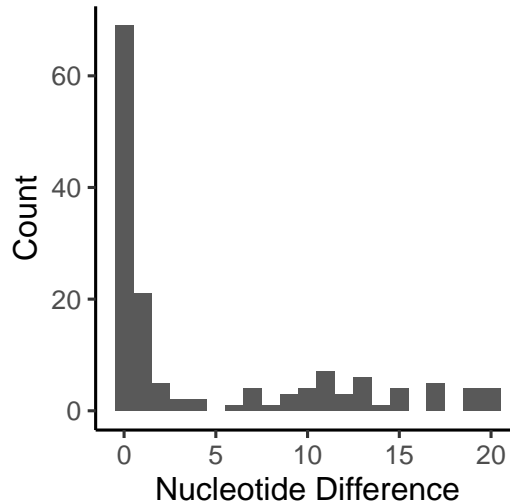
IGHV3-9*01

1305 sequences assigned
578 (44.3%) exact matches, in which:
576 unique CDR3
6 unique J



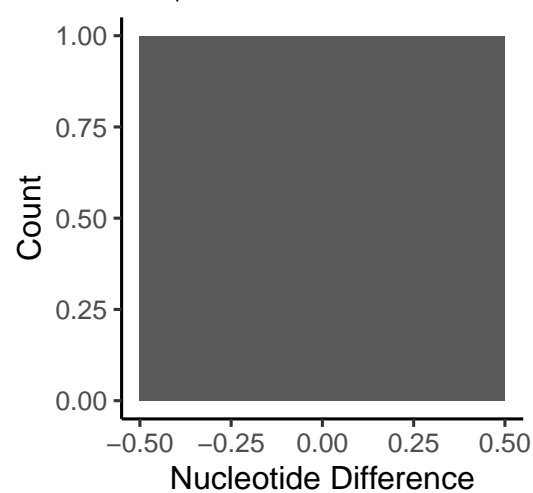
IGHV3-13*01

169 sequences assigned
69 (40.8%) exact matches, in which:
69 unique CDR3
5 unique J



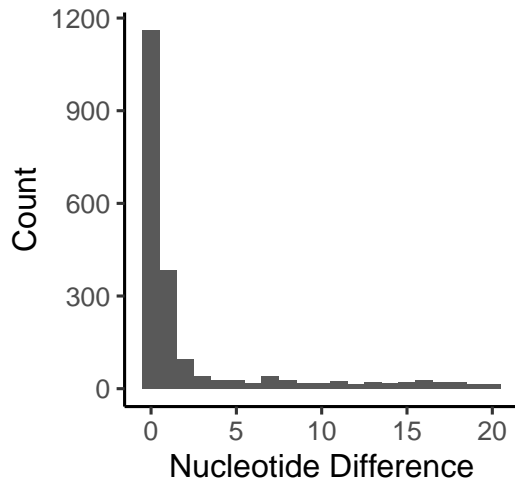
IGHV3-20*02

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



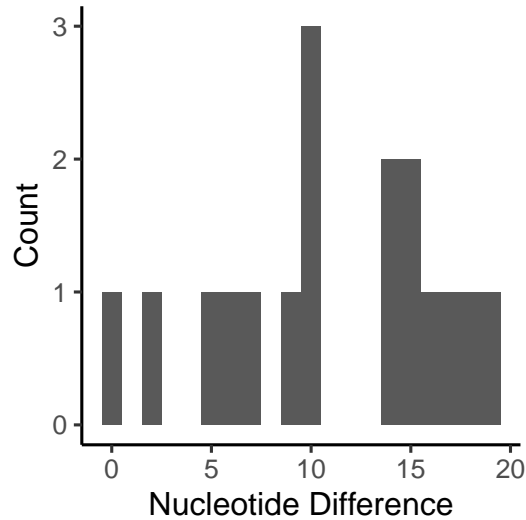
IGHV3-21*01

2371 sequences assigned
1160 (48.9%) exact matches, in which:
1157 unique CDR3
6 unique J



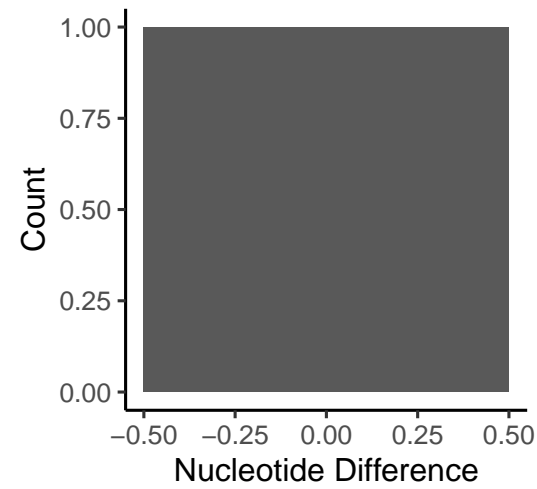
IGHV3-30-3*03

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



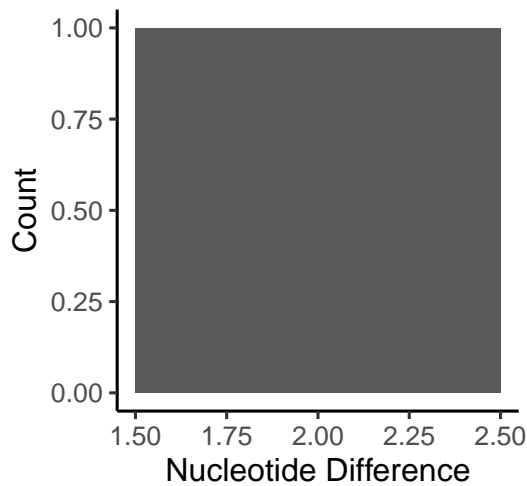
IGHV3-47*02

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



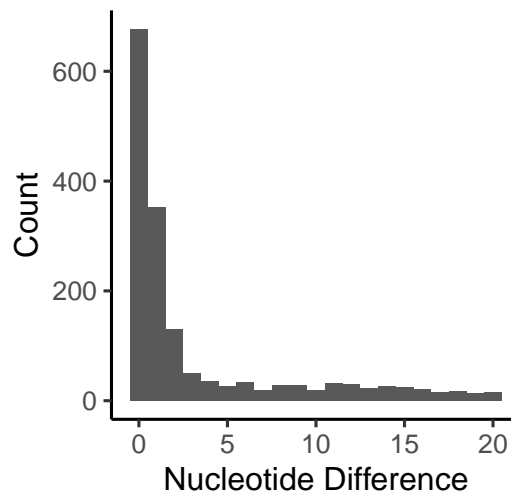
IGHV3-22*02

1 sequences assigned
No exact matches.



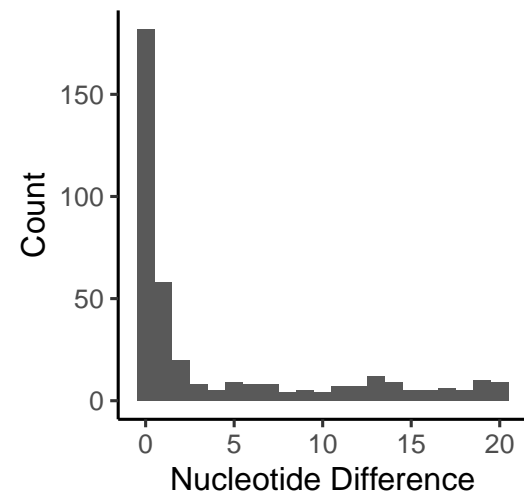
IGHV3-33*01

1823 sequences assigned
677 (37.1%) exact matches, in which:
677 unique CDR3
6 unique J



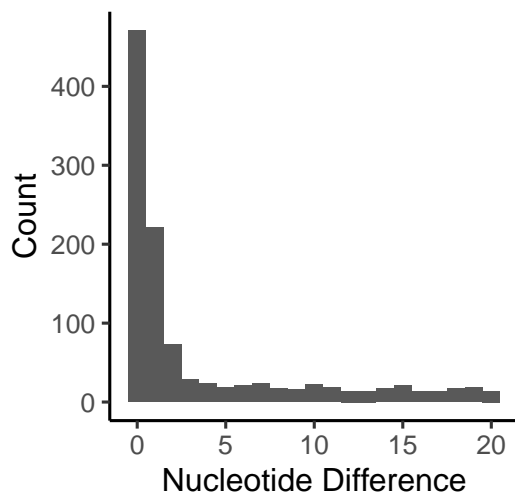
IGHV3-48*02

476 sequences assigned
182 (38.2%) exact matches, in which:
181 unique CDR3
6 unique J



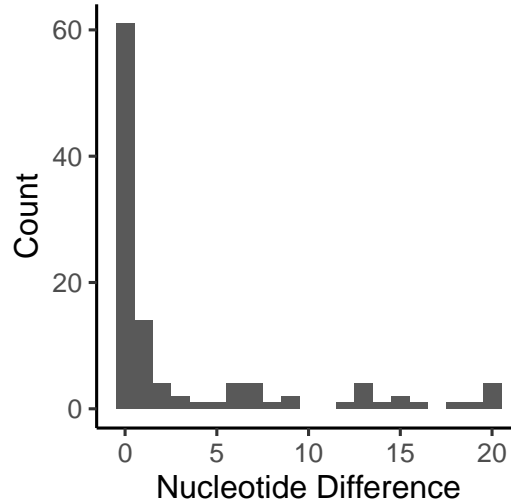
IGHV3-30*01

1267 sequences assigned
471 (37.2%) exact matches, in which:
471 unique CDR3
6 unique J



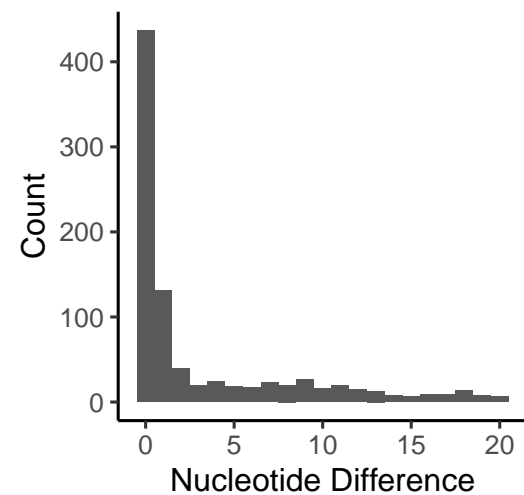
IGHV3-43*01

137 sequences assigned
61 (44.5%) exact matches, in which:
61 unique CDR3
4 unique J



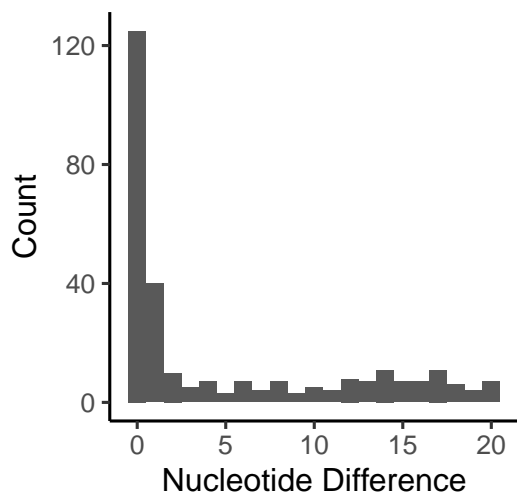
IGHV3-48*03

1014 sequences assigned
437 (43.1%) exact matches, in which:
437 unique CDR3
6 unique J



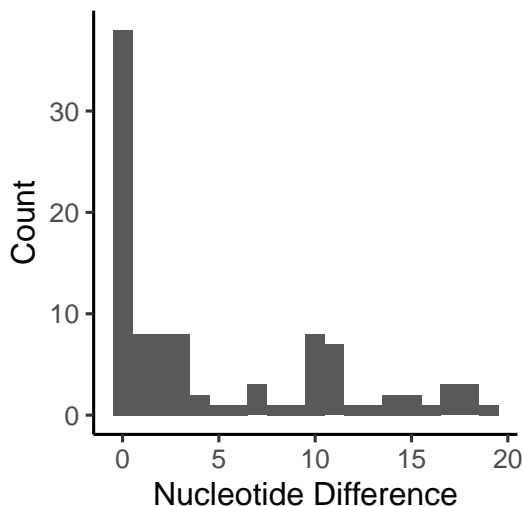
IGHV3-49*04

368 sequences assigned
125 (34%) exact matches, in which:
125 unique CDR3
6 unique J



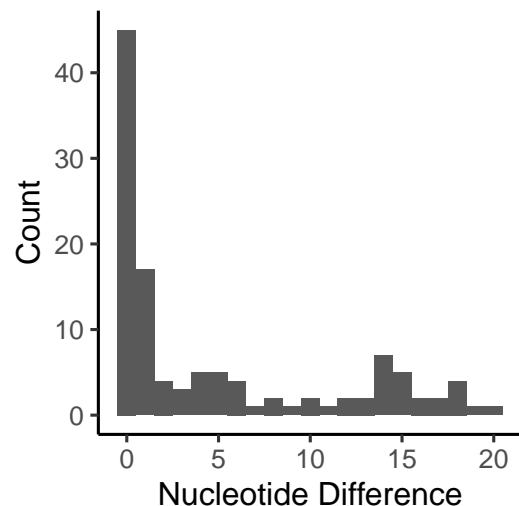
IGHV3-64*01

117 sequences assigned
38 (32.5%) exact matches, in which:
38 unique CDR3
6 unique J



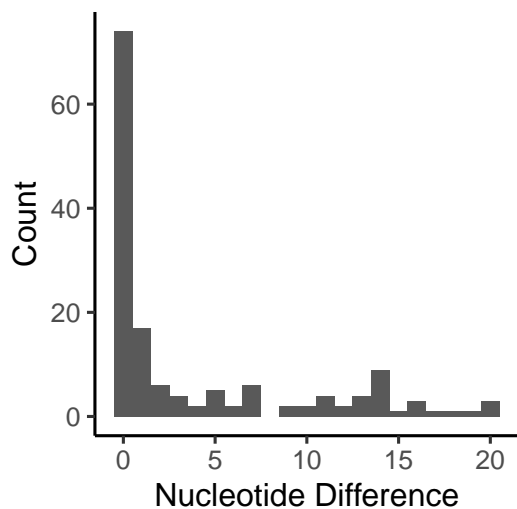
IGHV3-73*01

132 sequences assigned
45 (34.1%) exact matches, in which:
45 unique CDR3
5 unique J



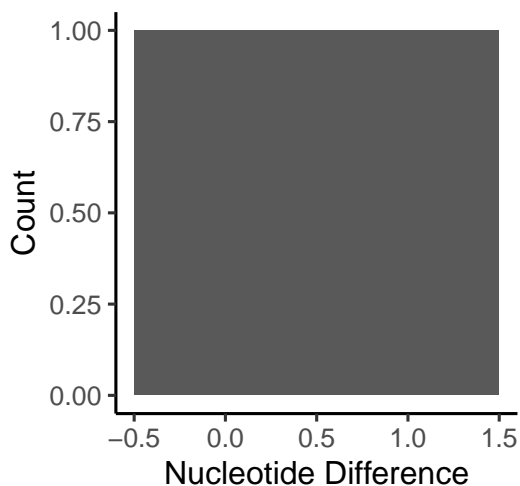
IGHV3-49*05

178 sequences assigned
74 (41.6%) exact matches, in which:
74 unique CDR3
6 unique J



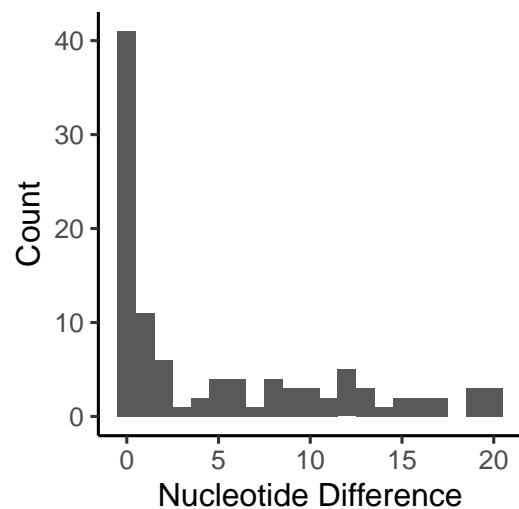
IGHV3-66*03

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



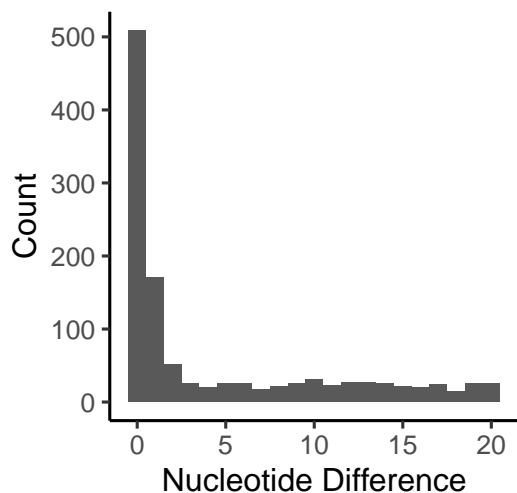
IGHV3-73*02

118 sequences assigned
41 (34.7%) exact matches, in which:
41 unique CDR3
4 unique J



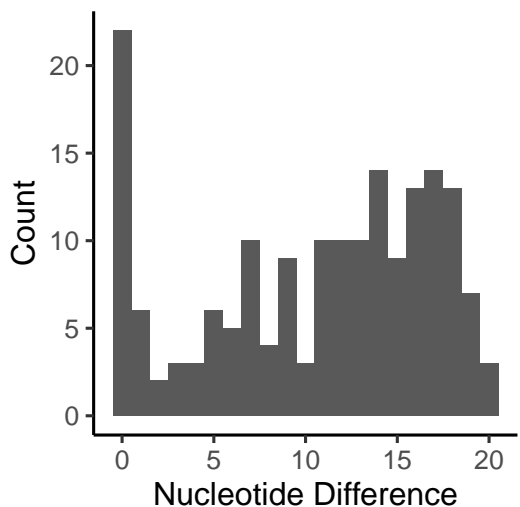
IGHV3-53*01

1374 sequences assigned
509 (37%) exact matches, in which:
507 unique CDR3
6 unique J



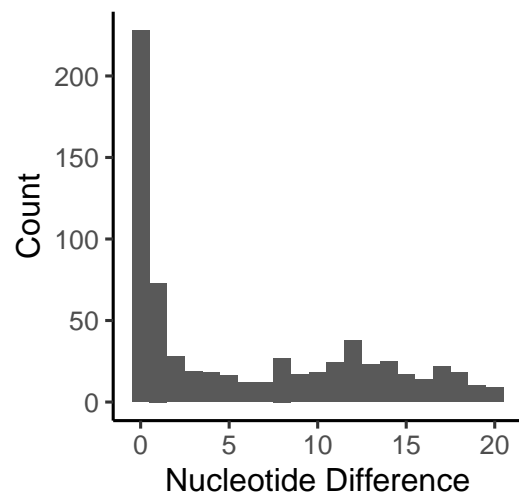
IGHV3-72*01

223 sequences assigned
22 (9.9%) exact matches, in which:
22 unique CDR3
5 unique J



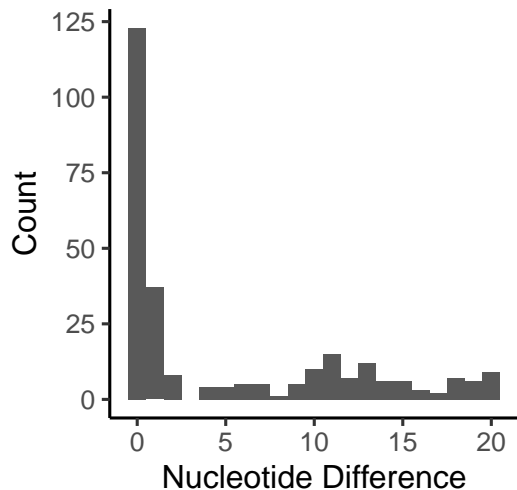
IGHV3-74*01

769 sequences assigned
228 (29.6%) exact matches, in which:
226 unique CDR3
6 unique J



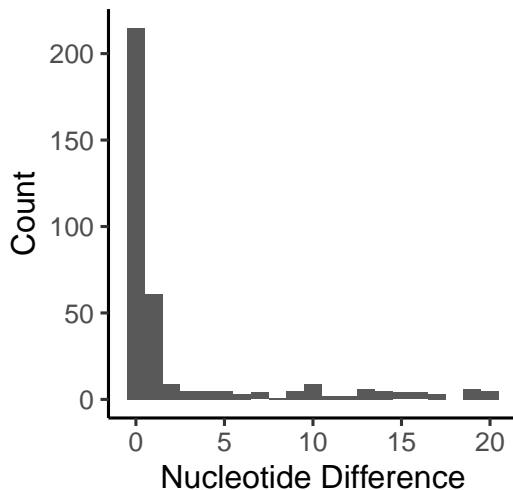
IGHV3–64D*06

386 sequences assigned
123 (31.9%) exact matches, in which:
123 unique CDR3
6 unique J



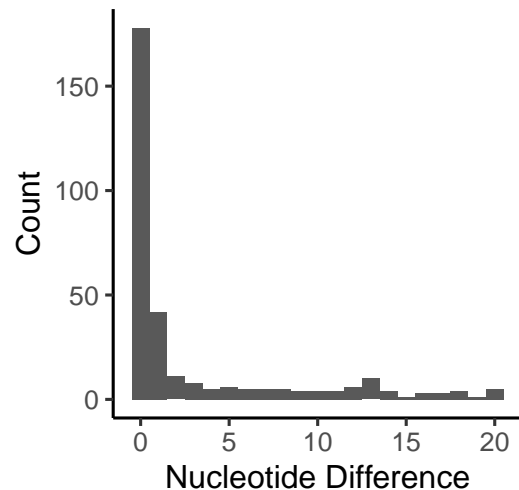
IGHV4–4*07

425 sequences assigned
215 (50.6%) exact matches, in which:
215 unique CDR3
6 unique J



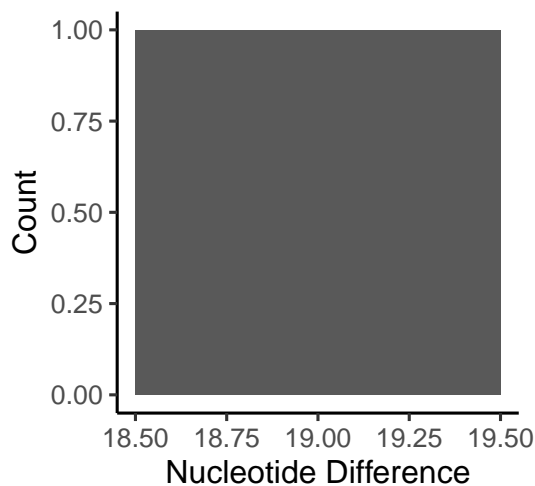
IGHV4–31*03

387 sequences assigned
178 (46%) exact matches, in which:
178 unique CDR3
5 unique J



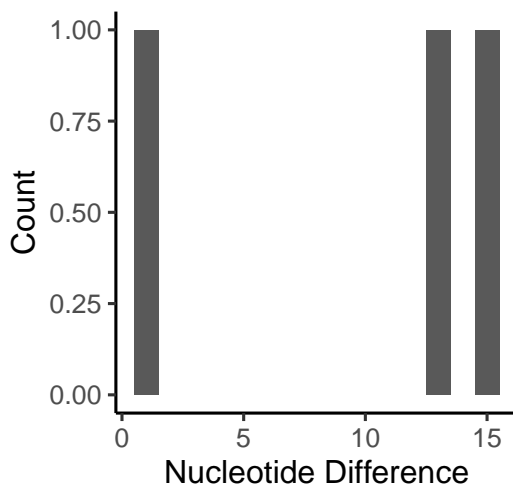
IGHV3–NL1*01

1 sequences assigned
No exact matches.



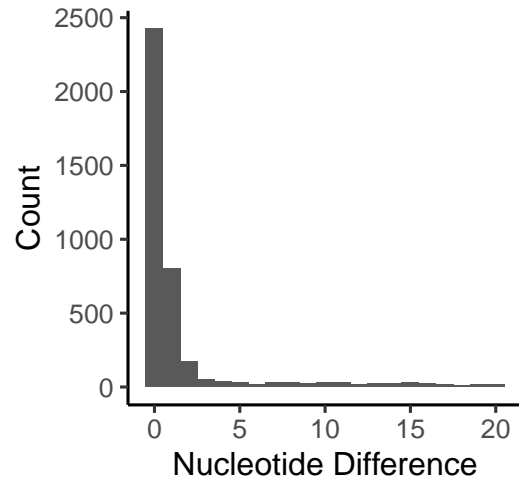
IGHV4–28*07

3 sequences assigned
No exact matches.



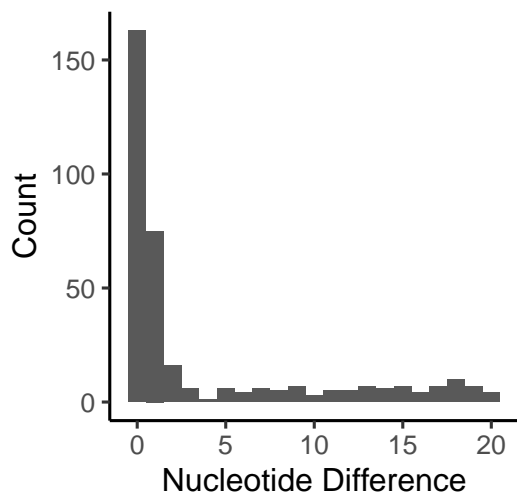
IGHV4–34*01

4174 sequences assigned
2425 (58.1%) exact matches, in which:
2419 unique CDR3
6 unique J



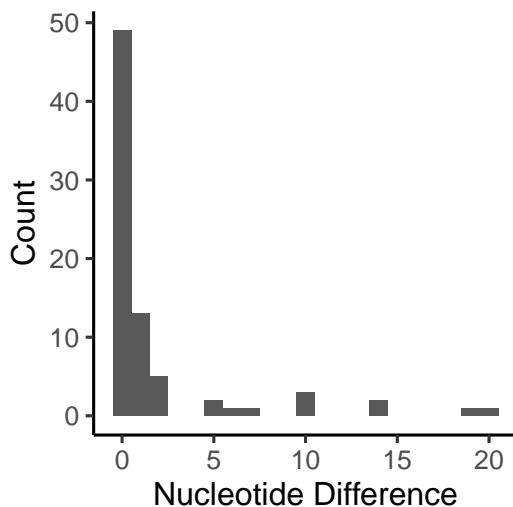
IGHV4–4*02

442 sequences assigned
163 (36.9%) exact matches, in which:
162 unique CDR3
6 unique J



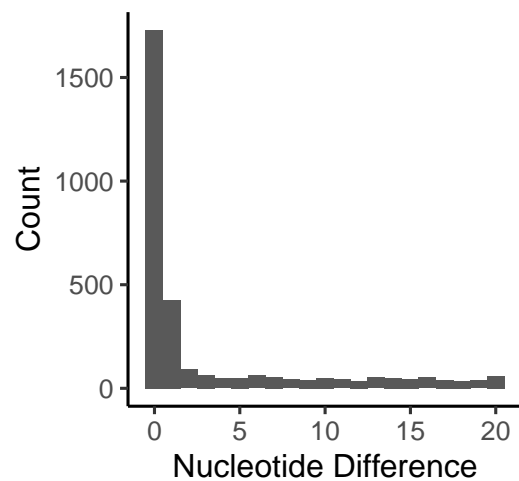
IGHV4–31*01

79 sequences assigned
49 (62%) exact matches, in which:
49 unique CDR3
6 unique J



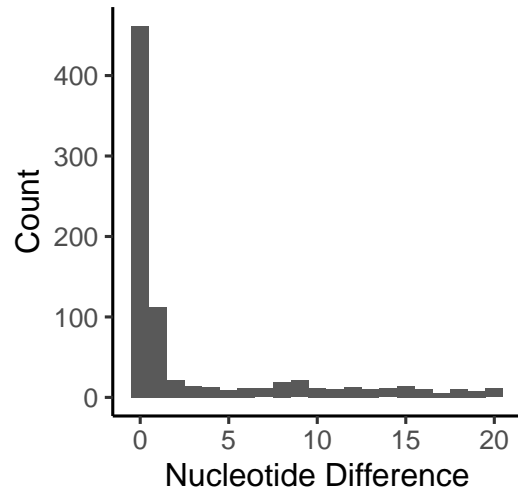
IGHV4–39*01

3656 sequences assigned
1729 (47.3%) exact matches, in which:
1728 unique CDR3
6 unique J



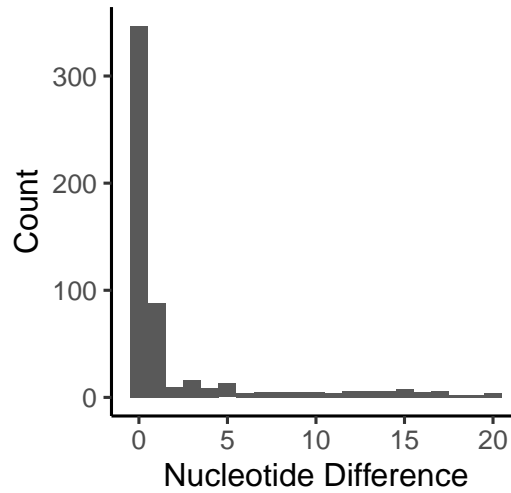
IGHV4–59*01

960 sequences assigned
462 (48.1%) exact matches, in which:
460 unique CDR3
6 unique J



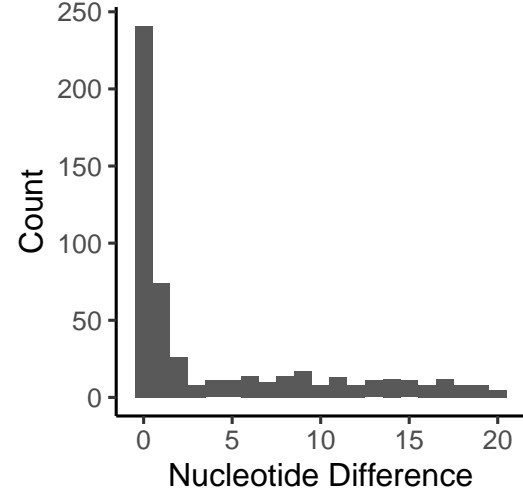
IGHV5–10–1*03

655 sequences assigned
347 (53%) exact matches, in which:
347 unique CDR3
6 unique J



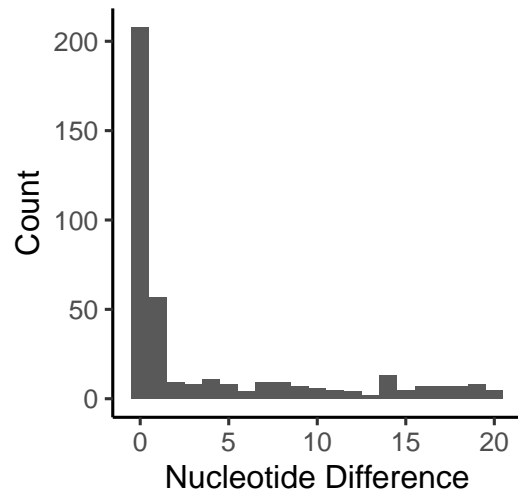
IGHV6–1*01

581 sequences assigned
241 (41.5%) exact matches, in which:
241 unique CDR3
6 unique J



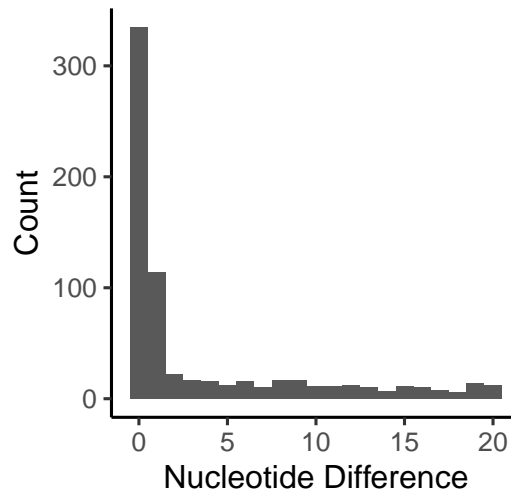
IGHV4–59*08

447 sequences assigned
208 (46.5%) exact matches, in which:
208 unique CDR3
6 unique J



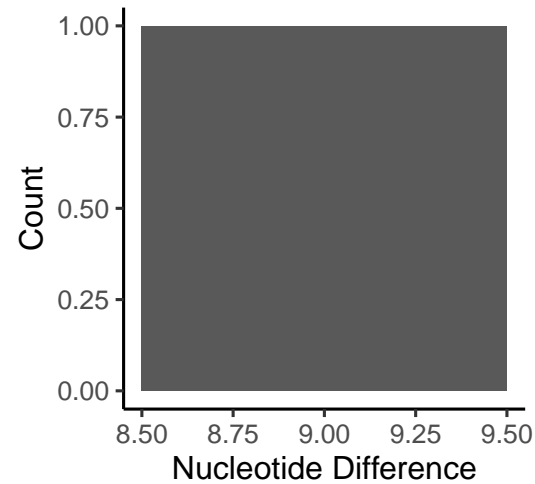
IGHV5–51*01

789 sequences assigned
335 (42.5%) exact matches, in which:
335 unique CDR3
6 unique J



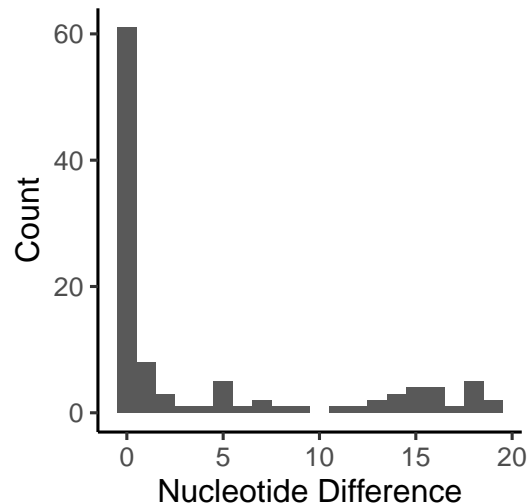
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



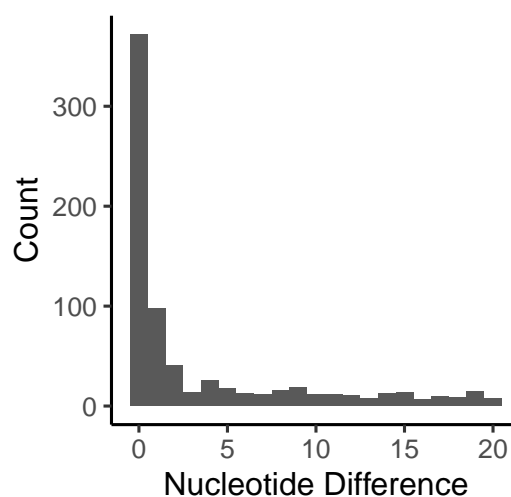
IGHV4–61*01

142 sequences assigned
61 (43%) exact matches, in which:
61 unique CDR3
5 unique J



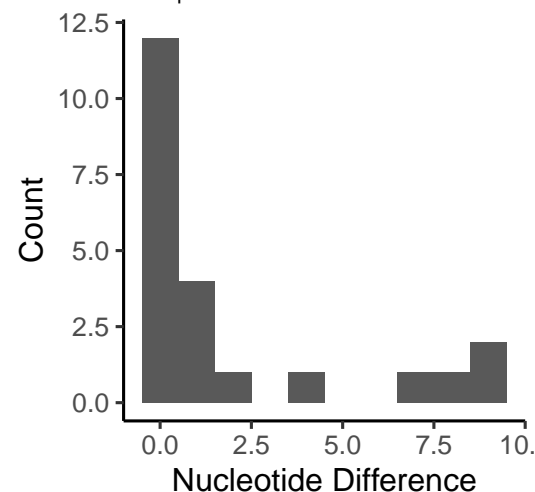
IGHV5–51*01_C45G

863 sequences assigned
372 (43.1%) exact matches, in which:
372 unique CDR3
6 unique J



IGHV7–4–1*01

32 sequences assigned
12 (37.5%) exact matches, in which:
12 unique CDR3
4 unique J





Warning – no inferred sequences found.