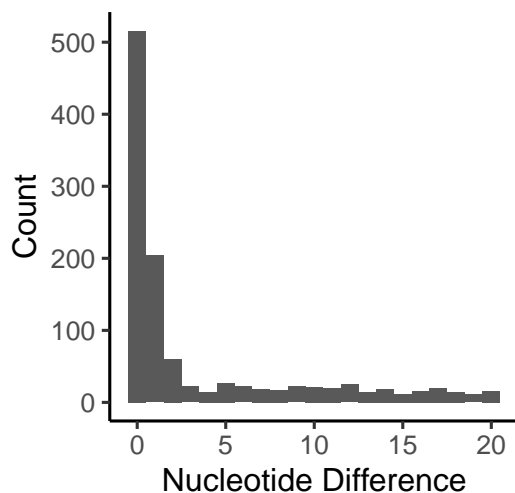


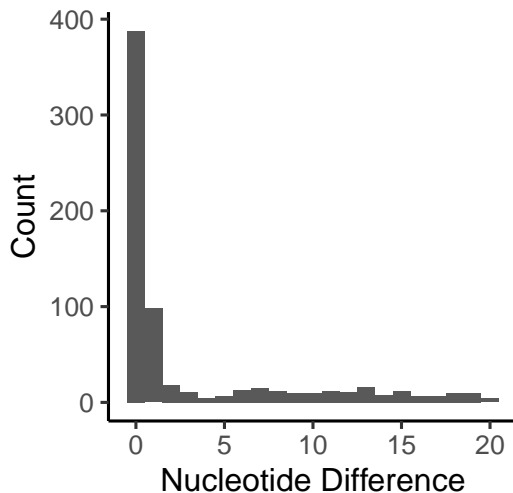
IGHV1-2*02

1290 sequences assigned
516 (40%) exact matches, in which:
499 unique CDR3
6 unique J



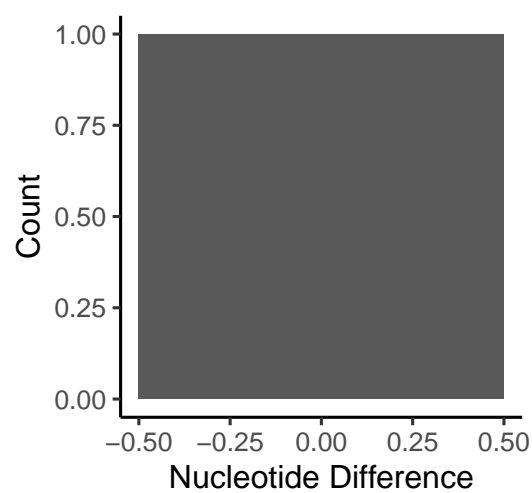
IGHV1-18*01

789 sequences assigned
388 (49.2%) exact matches, in which:
380 unique CDR3
6 unique J



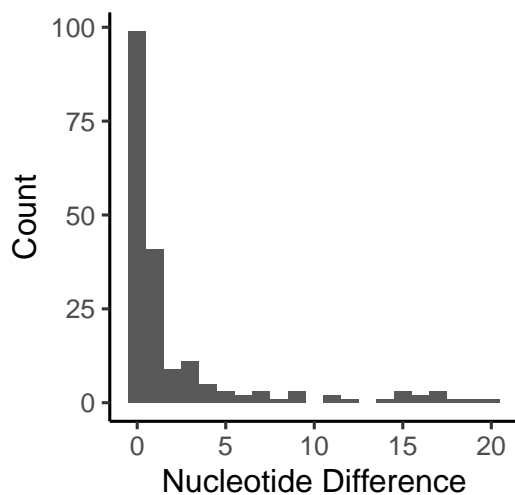
IGHV1-45*02

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



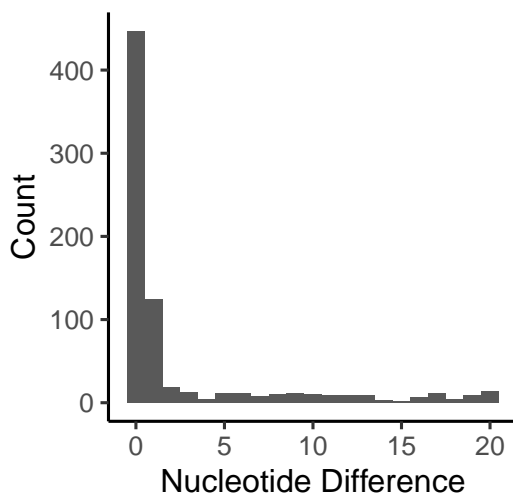
IGHV1-2*04

204 sequences assigned
99 (48.5%) exact matches, in which:
94 unique CDR3
5 unique J



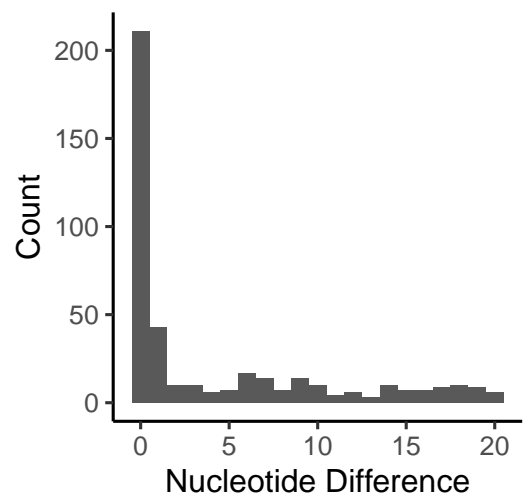
IGHV1-18*04

820 sequences assigned
447 (54.5%) exact matches, in which:
441 unique CDR3
6 unique J



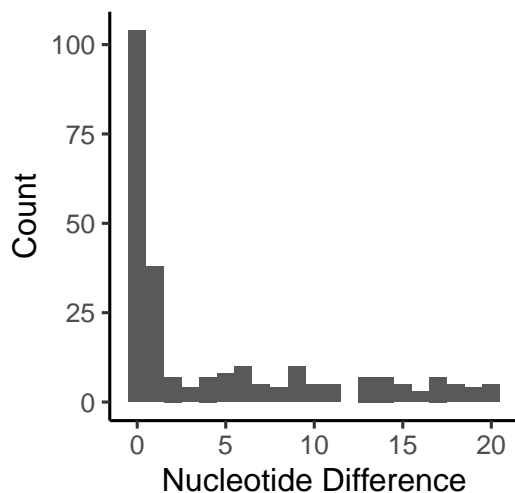
IGHV1-46*01

471 sequences assigned
211 (44.8%) exact matches, in which:
208 unique CDR3
6 unique J



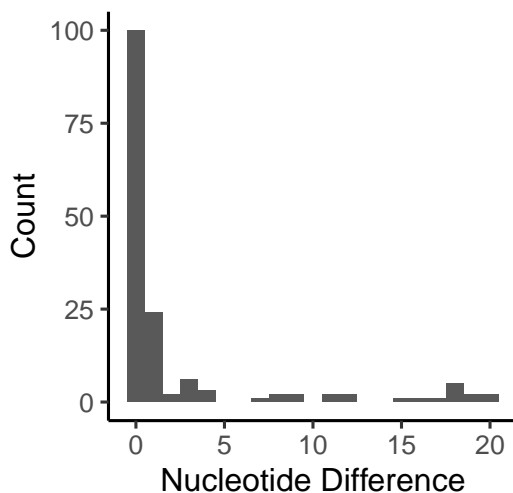
IGHV1-3*01

339 sequences assigned
104 (30.7%) exact matches, in which:
104 unique CDR3
5 unique J



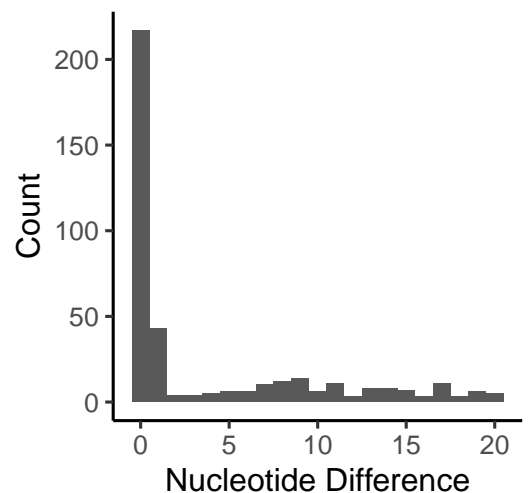
IGHV1-24*01

168 sequences assigned
100 (59.5%) exact matches, in which:
100 unique CDR3
6 unique J



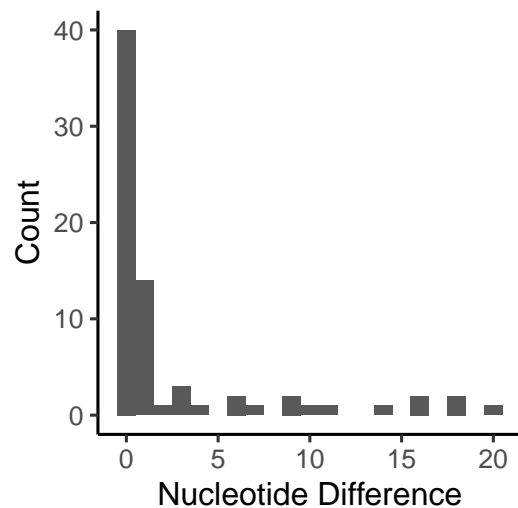
IGHV1-46*03

461 sequences assigned
217 (47.1%) exact matches, in which:
214 unique CDR3
6 unique J



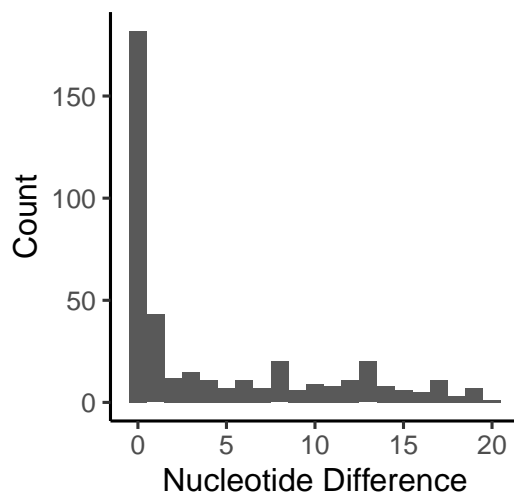
IGHV1-58*01

74 sequences assigned
40 (54.1%) exact matches, in which:
40 unique CDR3
4 unique J



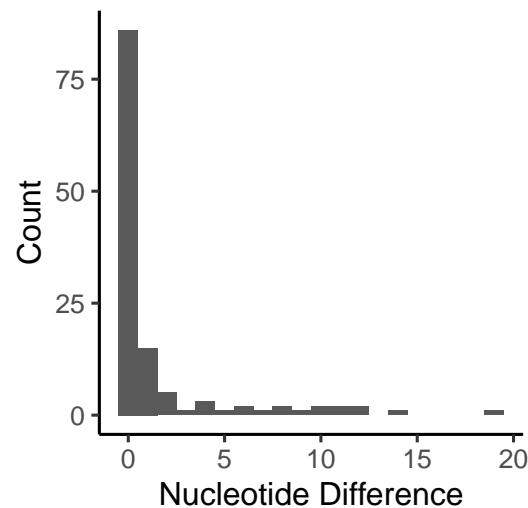
IGHV2-5*01

424 sequences assigned
182 (42.9%) exact matches, in which:
180 unique CDR3
6 unique J



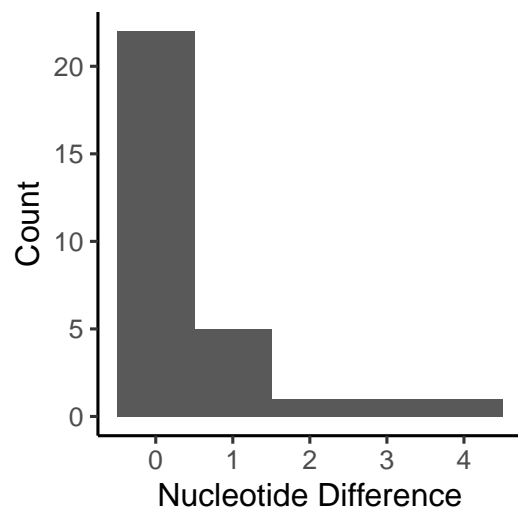
IGHV2-70*01

125 sequences assigned
86 (68.8%) exact matches, in which:
86 unique CDR3
5 unique J



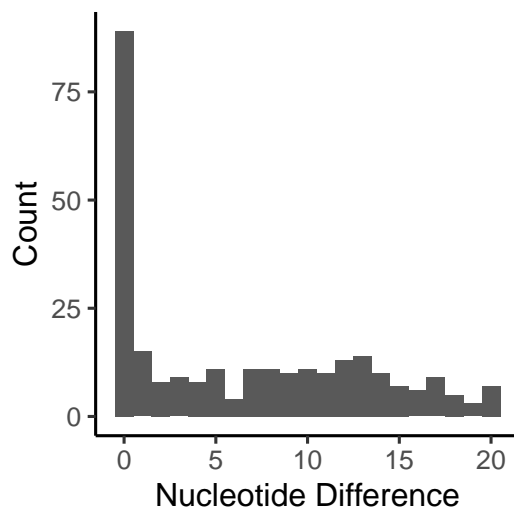
IGHV1-69-2*01

40 sequences assigned
22 (55%) exact matches, in which:
22 unique CDR3
5 unique J



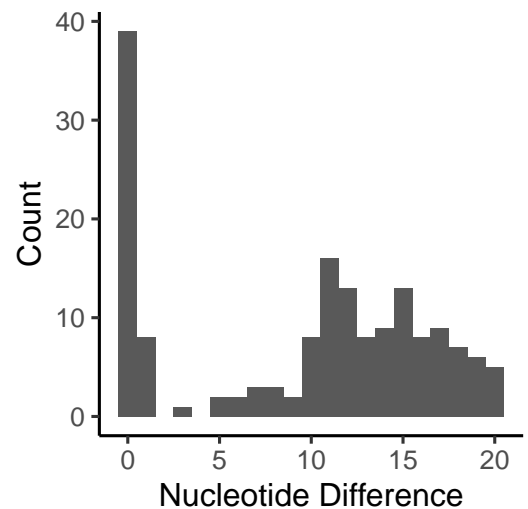
IGHV2-5*02

319 sequences assigned
89 (27.9%) exact matches, in which:
86 unique CDR3
6 unique J



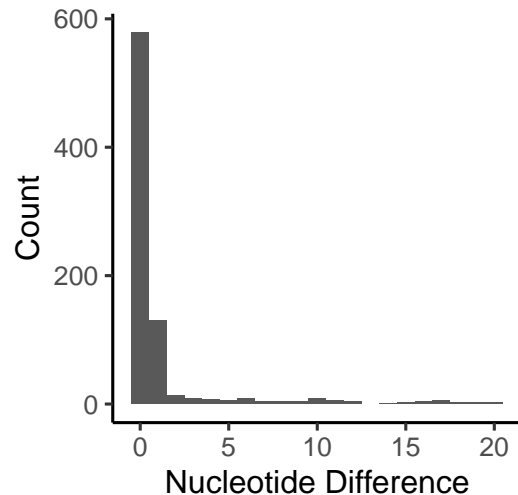
IGHV3-7*01

209 sequences assigned
39 (18.7%) exact matches, in which:
39 unique CDR3
6 unique J



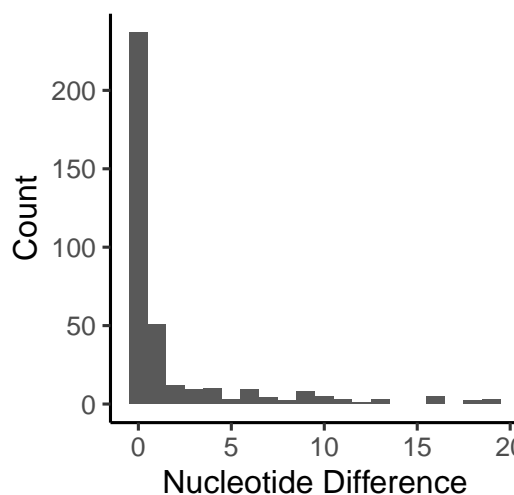
IGHV1-69*06

902 sequences assigned
579 (64.2%) exact matches, in which:
560 unique CDR3
6 unique J



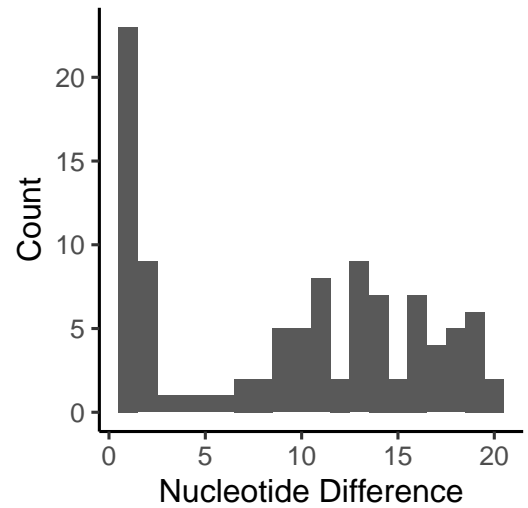
IGHV2-26*01

383 sequences assigned
237 (61.9%) exact matches, in which:
234 unique CDR3
6 unique J



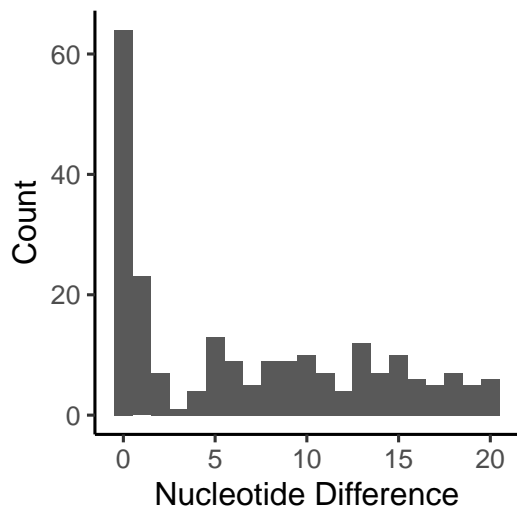
IGHV3-7*04

134 sequences assigned
No exact matches.



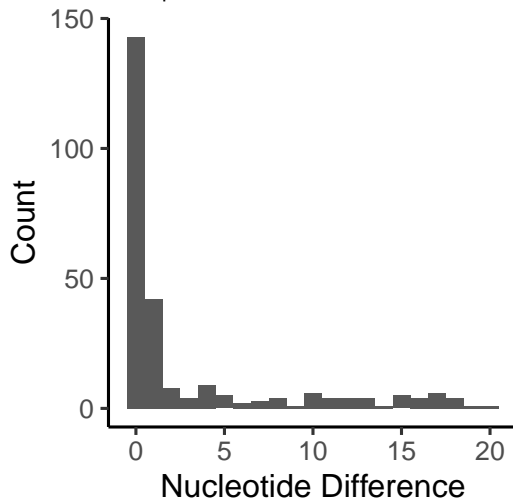
IGHV3-7*05

267 sequences assigned
64 (24%) exact matches, in which:
63 unique CDR3
5 unique J



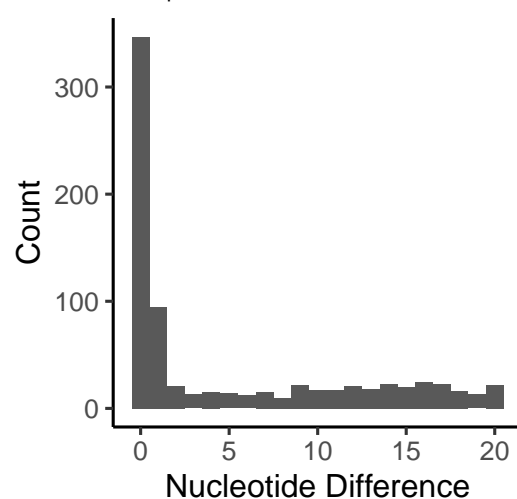
IGHV3-11*06

310 sequences assigned
143 (46.1%) exact matches, in which:
140 unique CDR3
5 unique J



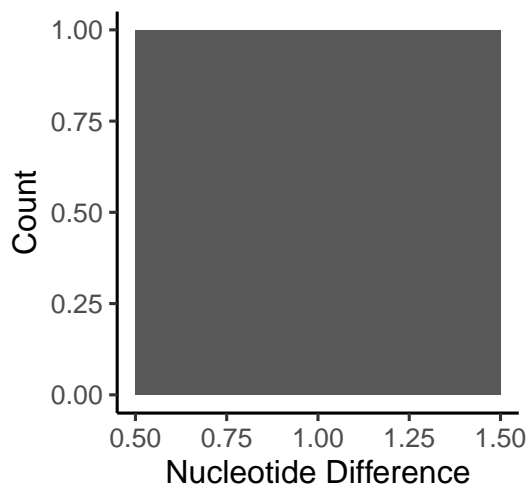
IGHV3-15*01

925 sequences assigned
347 (37.5%) exact matches, in which:
346 unique CDR3
6 unique J



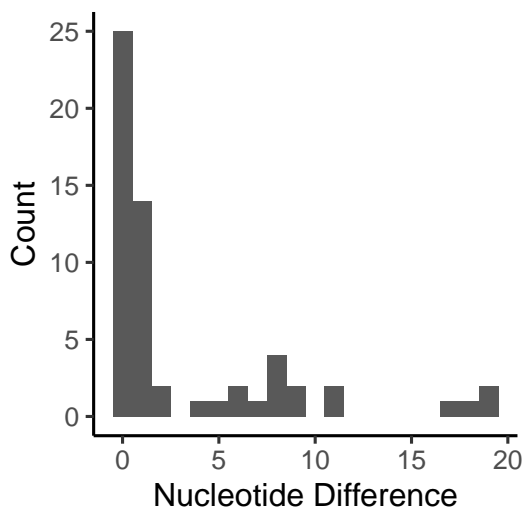
IGHV3-9*01

1 sequences assigned
No exact matches.



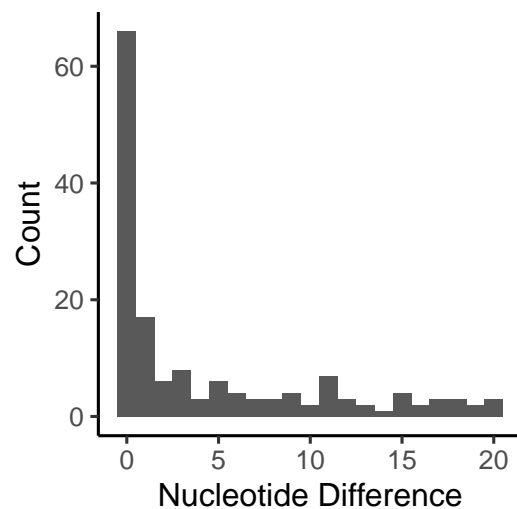
IGHV3-13*04

67 sequences assigned
25 (37.3%) exact matches, in which:
25 unique CDR3
4 unique J



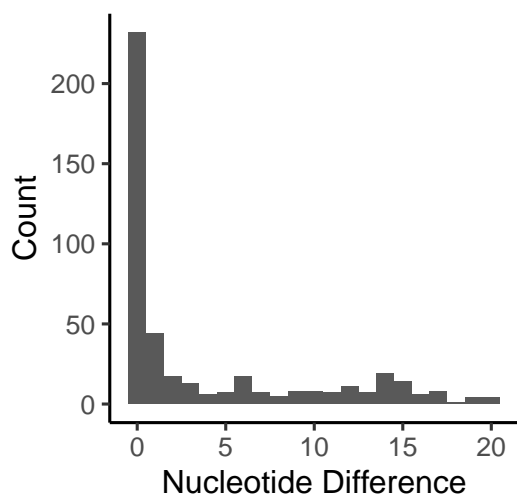
IGHV3-20*04

172 sequences assigned
66 (38.4%) exact matches, in which:
66 unique CDR3
4 unique J



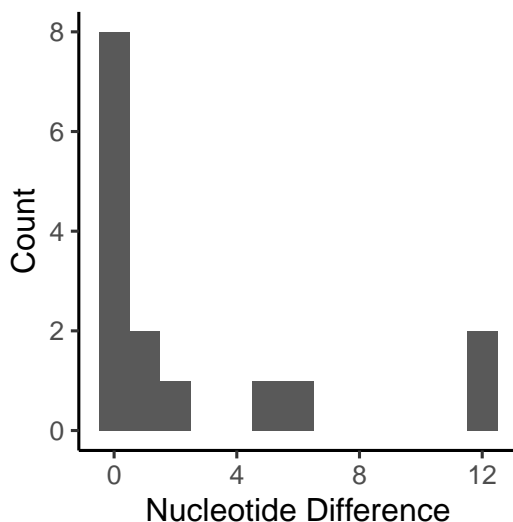
IGHV3-11*05

521 sequences assigned
232 (44.5%) exact matches, in which:
231 unique CDR3
6 unique J



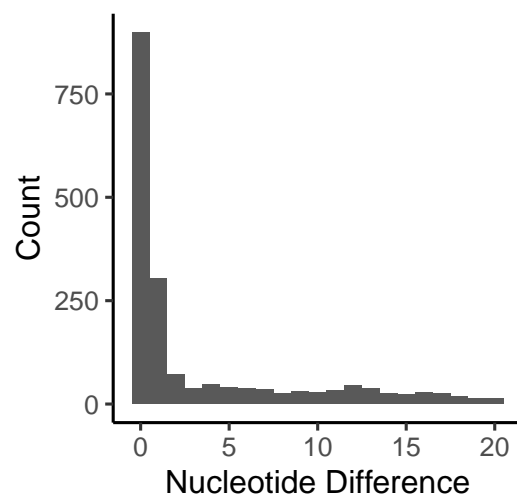
IGHV3-13*05

16 sequences assigned
8 (50%) exact matches, in which:
8 unique CDR3
3 unique J



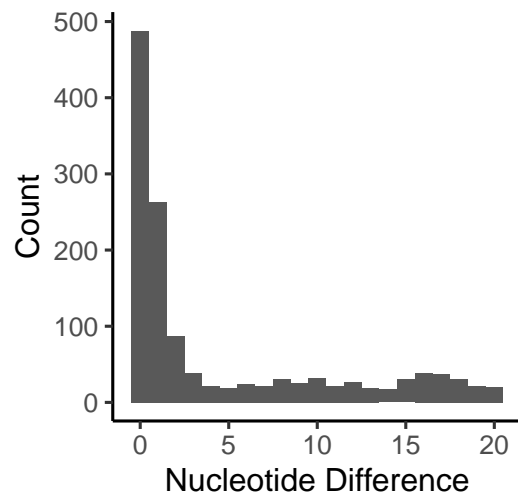
IGHV3-21*01

1997 sequences assigned
899 (45%) exact matches, in which:
879 unique CDR3
6 unique J



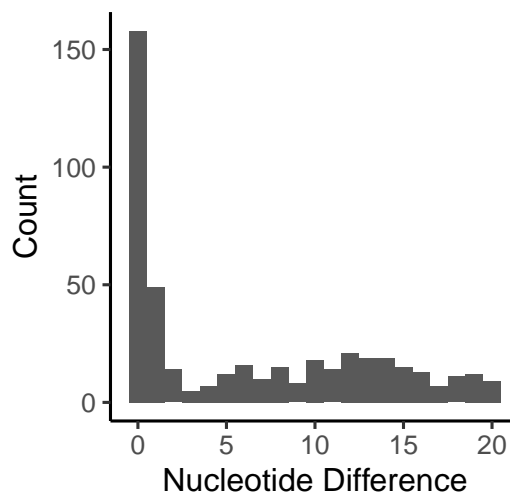
IGHV3–33*01

1578 sequences assigned
488 (30.9%) exact matches, in which:
477 unique CDR3
6 unique J



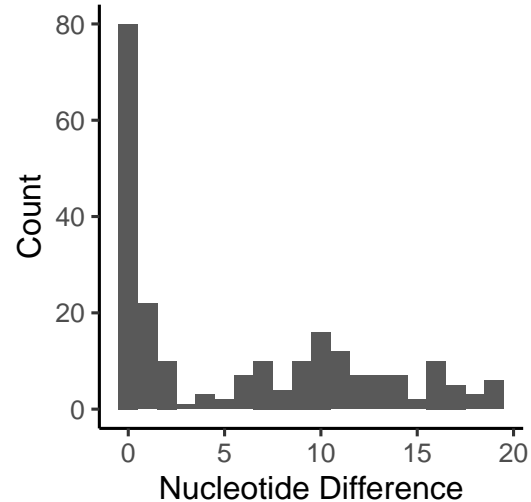
IGHV3–48*01

522 sequences assigned
158 (30.3%) exact matches, in which:
155 unique CDR3
6 unique J



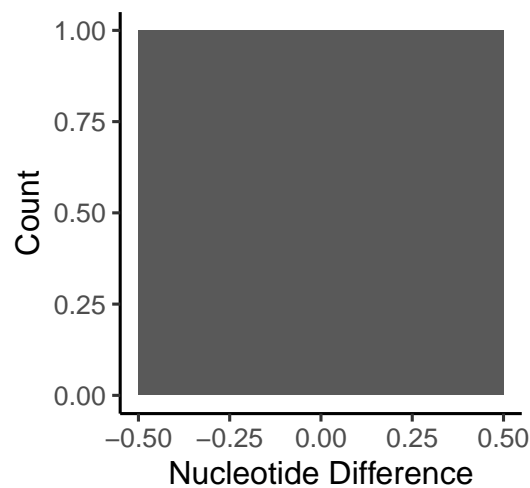
IGHV3–49*04

268 sequences assigned
80 (29.9%) exact matches, in which:
79 unique CDR3
4 unique J



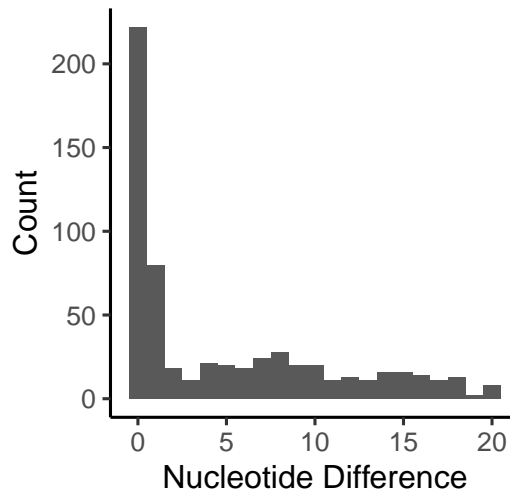
IGHV3–35*01

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



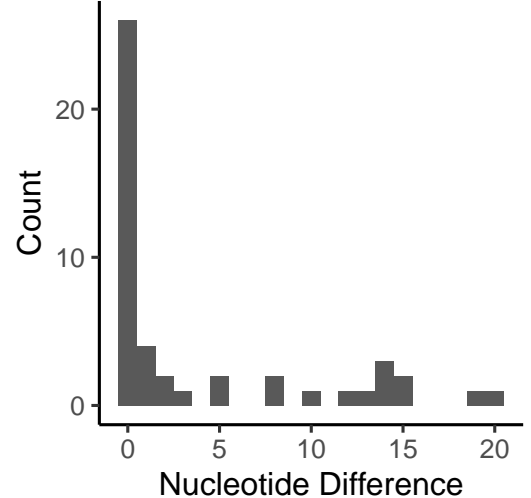
IGHV3–48*03

674 sequences assigned
222 (32.9%) exact matches, in which:
220 unique CDR3
6 unique J



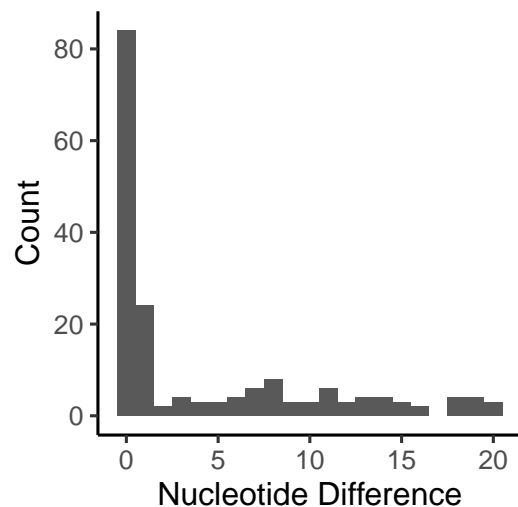
IGHV3–53*04

58 sequences assigned
26 (44.8%) exact matches, in which:
25 unique CDR3
6 unique J



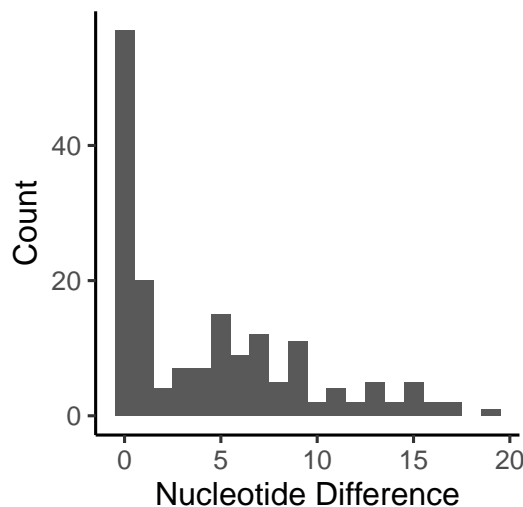
IGHV3–43*02

225 sequences assigned
84 (37.3%) exact matches, in which:
83 unique CDR3
6 unique J



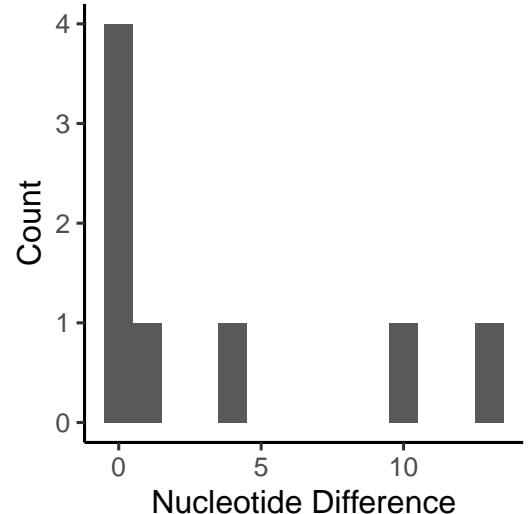
IGHV3–49*03

216 sequences assigned
57 (26.4%) exact matches, in which:
57 unique CDR3
4 unique J



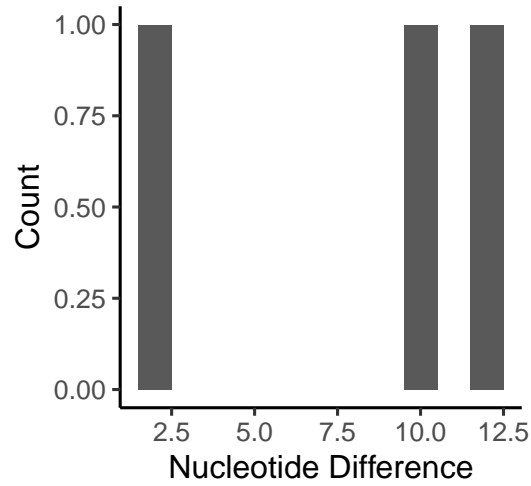
IGHV3–64*02

9 sequences assigned
4 (44.4%) exact matches, in which:
4 unique CDR3
2 unique J



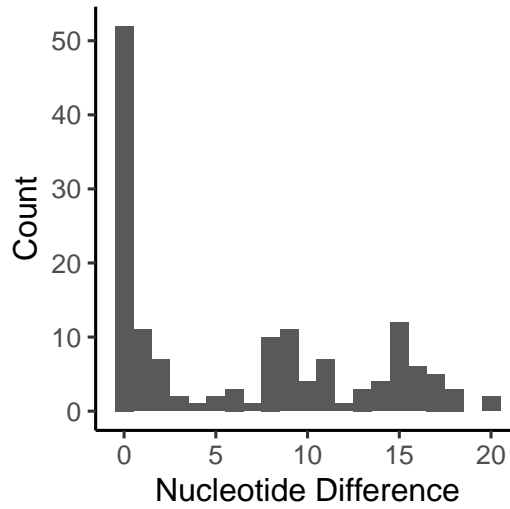
IGHV3-66*03

3 sequences assigned
No exact matches.



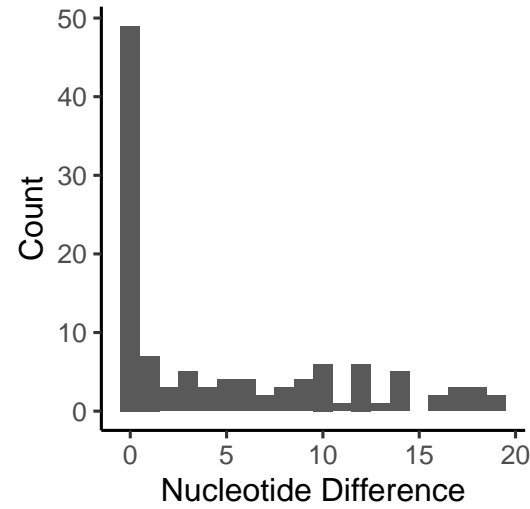
IGHV3-73*02

161 sequences assigned
52 (32.3%) exact matches, in which:
49 unique CDR3
4 unique J



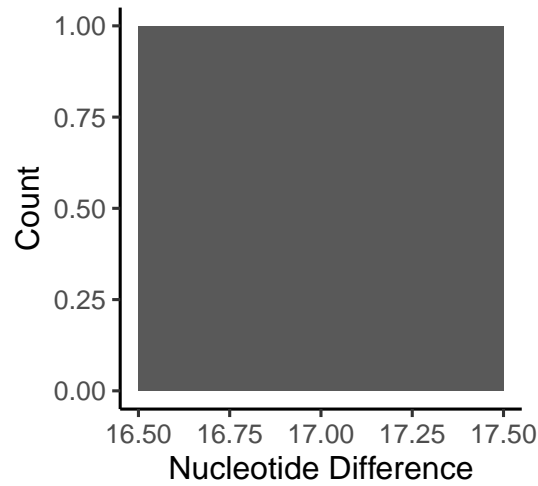
IGHV3-64D*08

133 sequences assigned
49 (36.8%) exact matches, in which:
47 unique CDR3
5 unique J



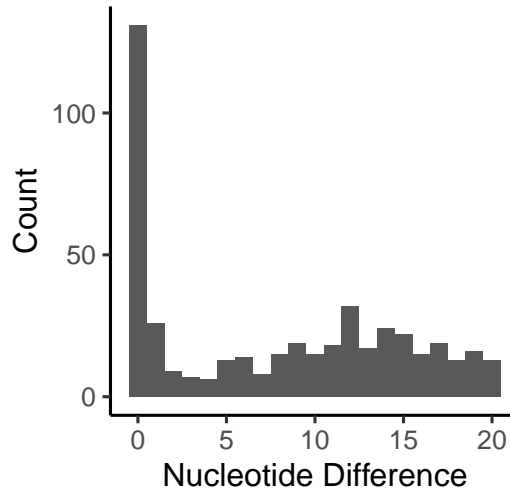
IGHV3-69-1*01

2 sequences assigned
No exact matches.



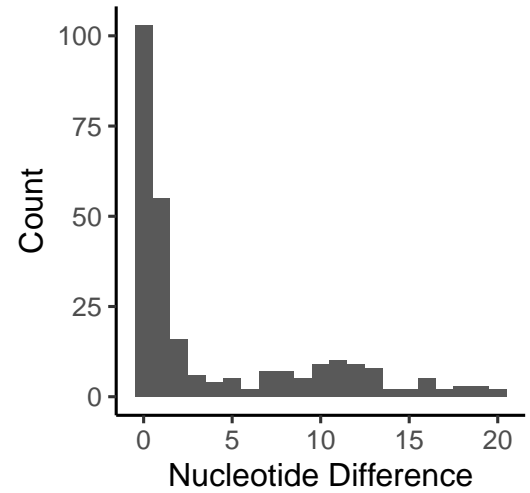
IGHV3-74*01

540 sequences assigned
131 (24.3%) exact matches, in which:
131 unique CDR3
6 unique J



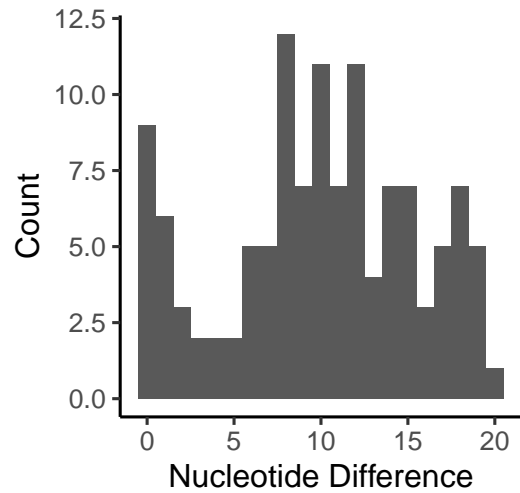
IGHV4-4*02

326 sequences assigned
103 (31.6%) exact matches, in which:
103 unique CDR3
5 unique J



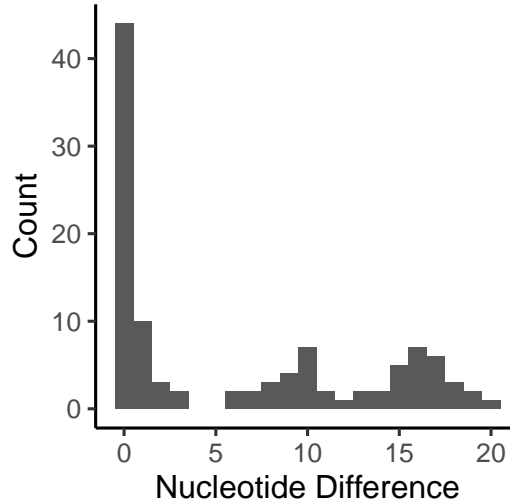
IGHV3-72*01

140 sequences assigned
9 (6.4%) exact matches, in which:
9 unique CDR3
3 unique J



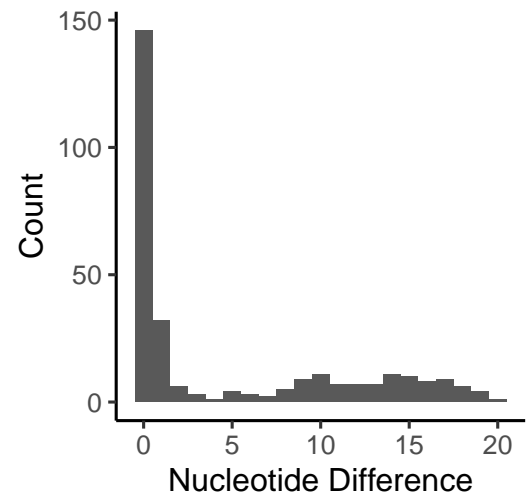
IGHV3-64D*06

125 sequences assigned
44 (35.2%) exact matches, in which:
43 unique CDR3
5 unique J



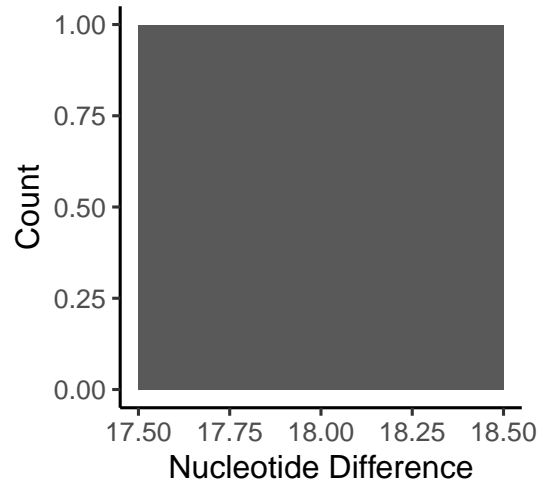
IGHV4-4*07

318 sequences assigned
146 (45.9%) exact matches, in which:
145 unique CDR3
5 unique J



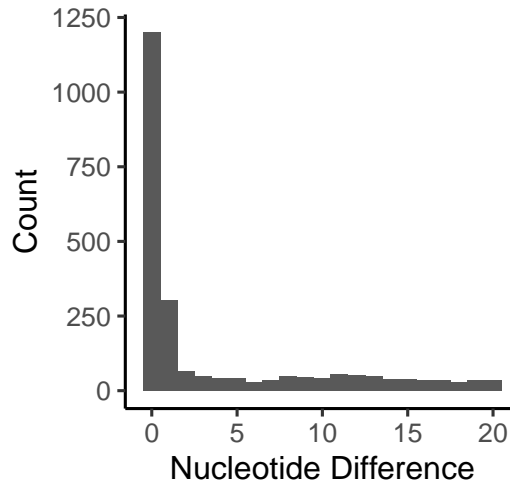
IGHV4-30-4*08

1 sequences assigned
No exact matches.



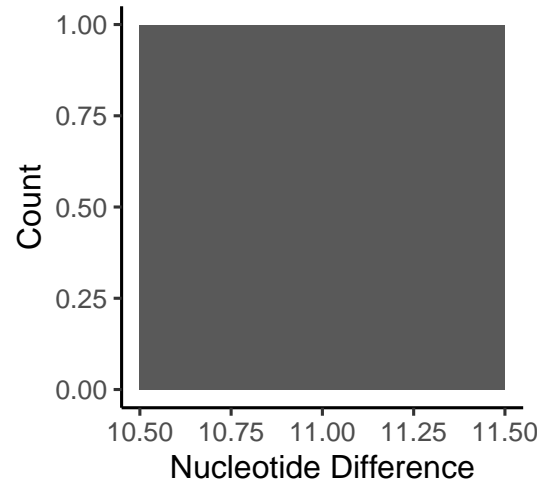
IGHV4-39*01

2628 sequences assigned
1200 (45.7%) exact matches, in which:
1180 unique CDR3
6 unique J



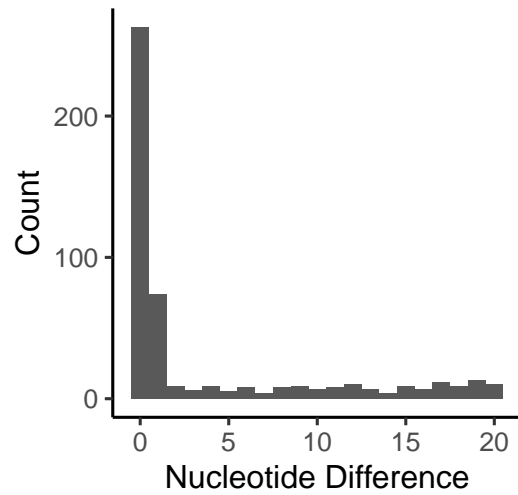
IGHV1/OR15-1*04

1 sequences assigned
No exact matches.



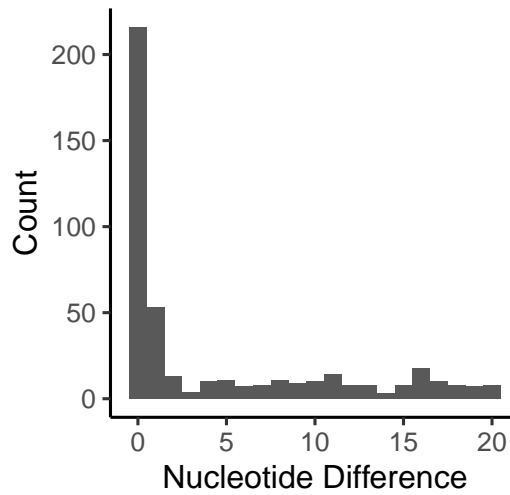
IGHV4-31*03

561 sequences assigned
263 (46.9%) exact matches, in which:
263 unique CDR3
6 unique J



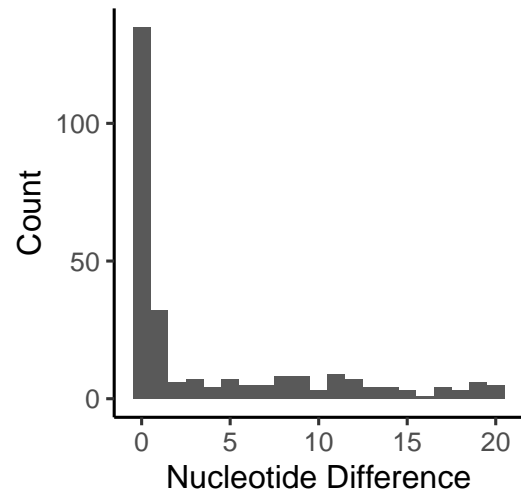
IGHV4-59*01

539 sequences assigned
216 (40.1%) exact matches, in which:
216 unique CDR3
6 unique J



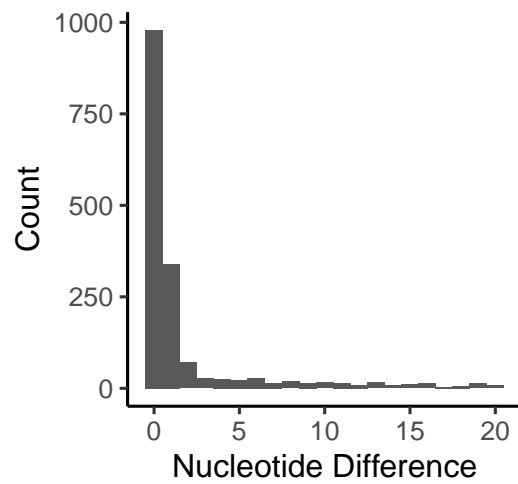
IGHV5-10-1*01

308 sequences assigned
135 (43.8%) exact matches, in which:
132 unique CDR3
6 unique J



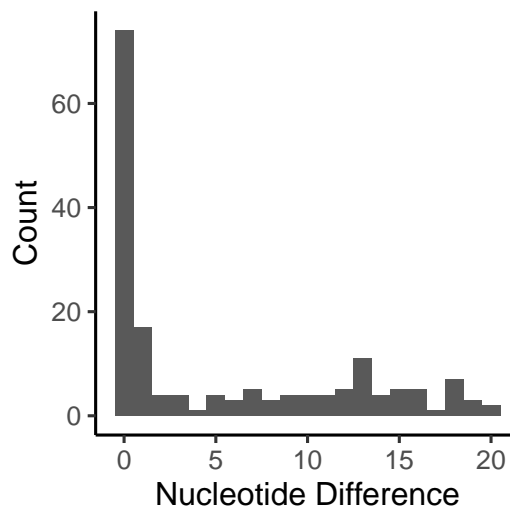
IGHV4-34*01

1777 sequences assigned
979 (55.1%) exact matches, in which:
964 unique CDR3
6 unique J



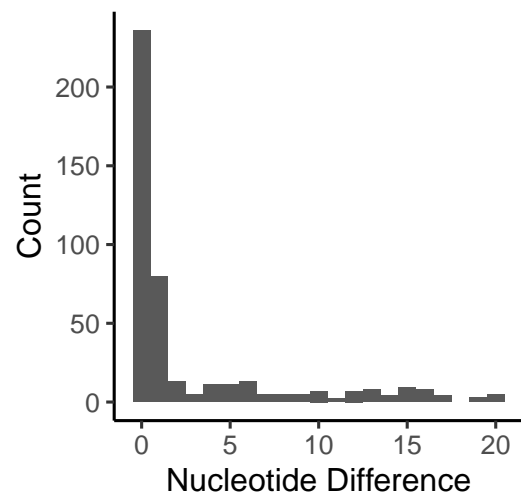
IGHV4-61*01

215 sequences assigned
74 (34.4%) exact matches, in which:
73 unique CDR3
5 unique J



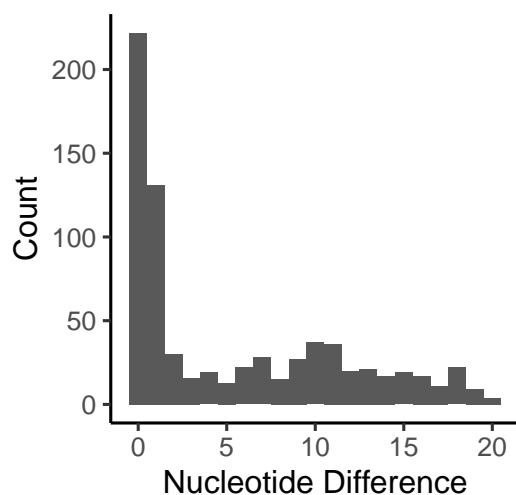
IGHV5-10-1*03

486 sequences assigned
236 (48.6%) exact matches, in which:
236 unique CDR3
6 unique J



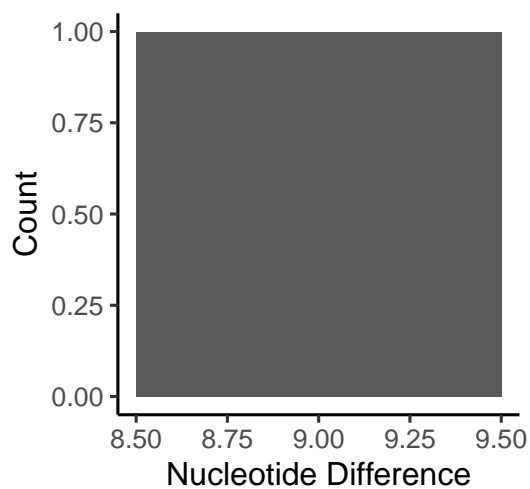
IGHV5–51*01

836 sequences assigned
222 (26.6%) exact matches, in which:
222 unique CDR3
6 unique J



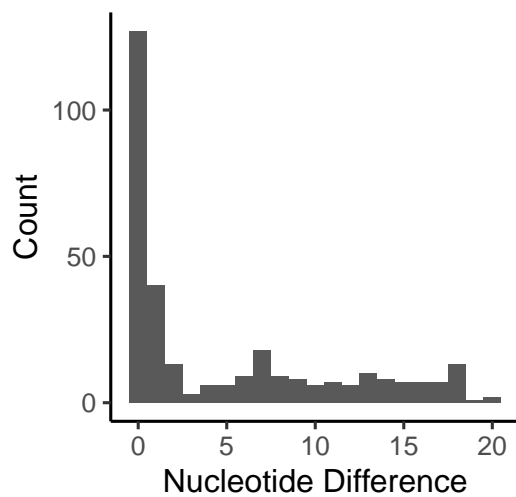
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



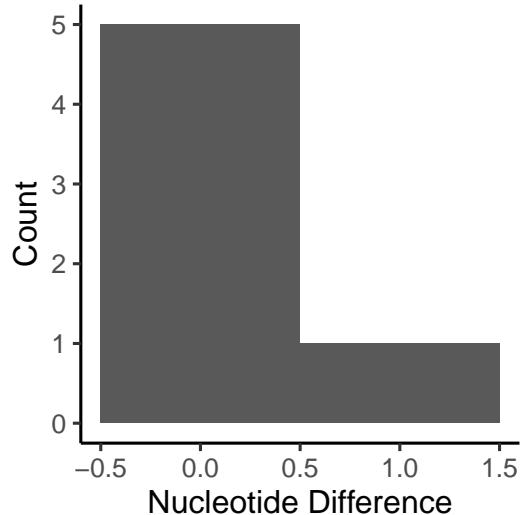
IGHV5–51*03

346 sequences assigned
127 (36.7%) exact matches, in which:
124 unique CDR3
5 unique J



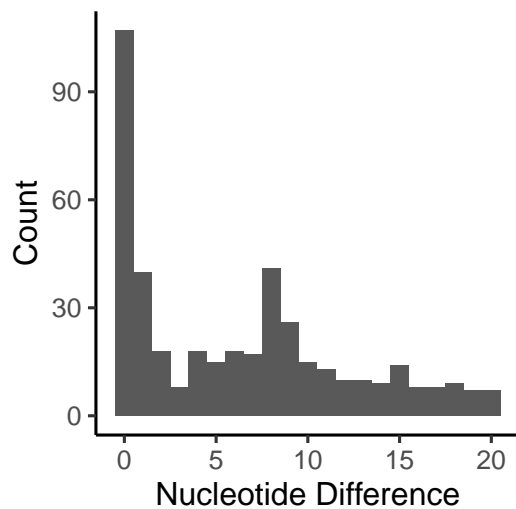
IGHV7–4–1*01

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



IGHV6–1*01

453 sequences assigned
107 (23.6%) exact matches, in which:
103 unique CDR3
5 unique J





[illegible]