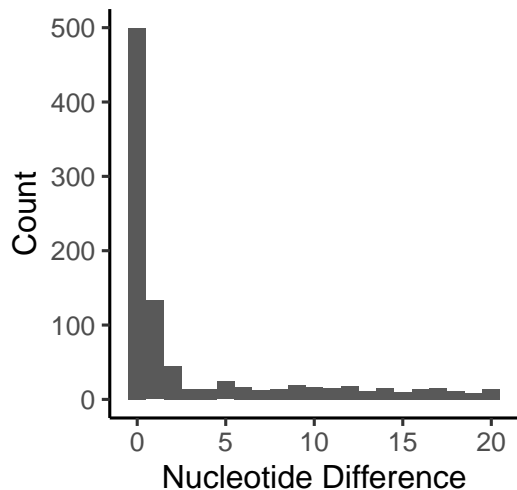


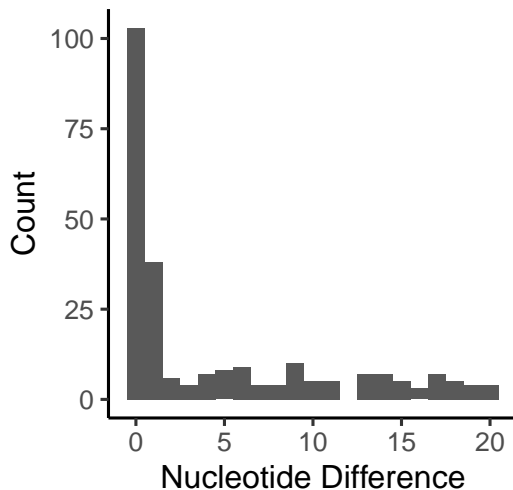
IGHV1-2*02

1065 sequences assigned
500 (46.9%) exact matches, in which:
496 unique CDR3
6 unique J



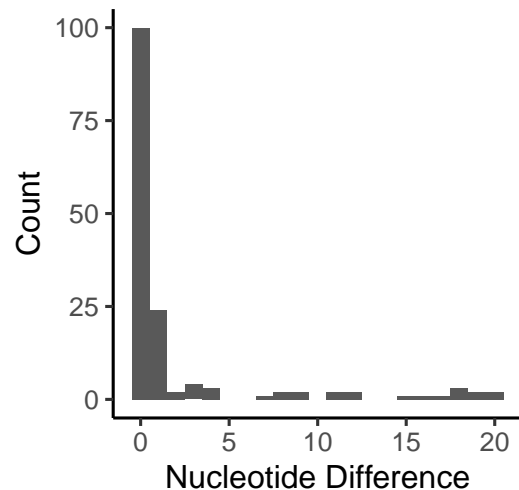
IGHV1-3*01

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



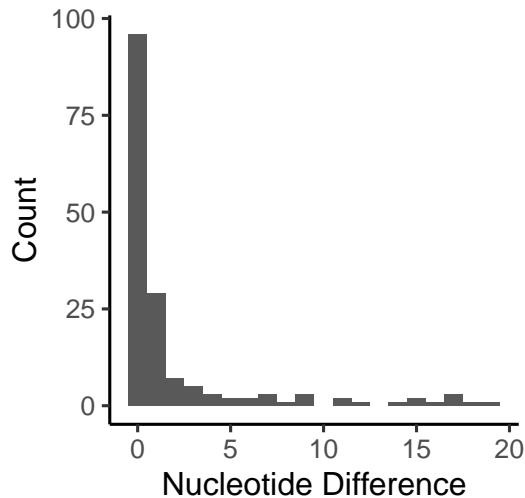
IGHV1-24*01

164 sequences assigned
100 (61%) exact matches, in which:
100 unique CDR3
6 unique J



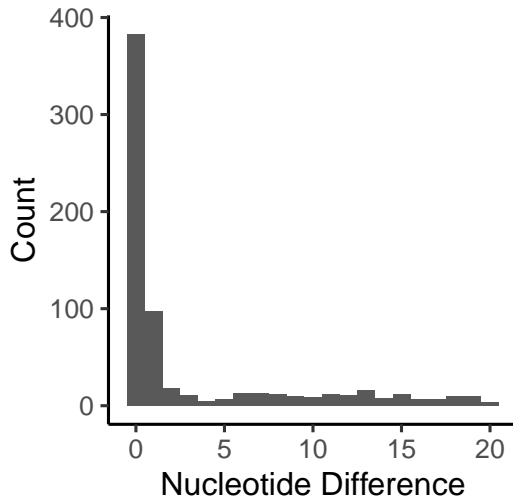
IGHV1-2*04

168 sequences assigned
96 (57.1%) exact matches, in which:
94 unique CDR3
5 unique J



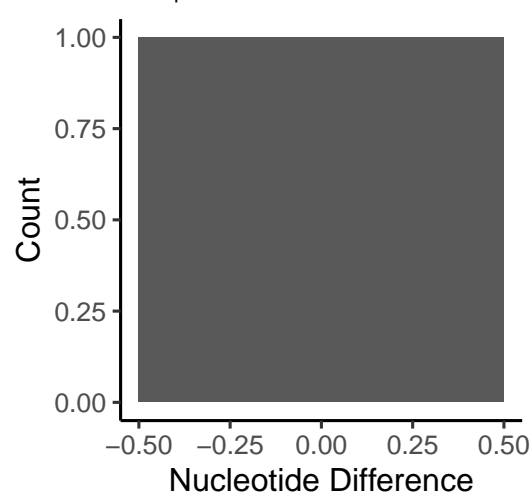
IGHV1-18*01

777 sequences assigned
383 (49.3%) exact matches, in which:
379 unique CDR3
6 unique J



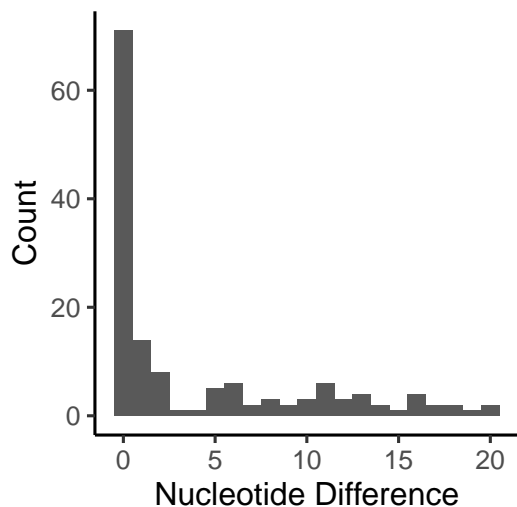
IGHV1-45*02

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



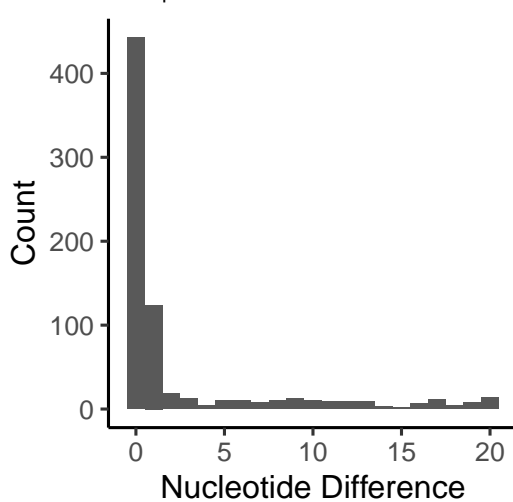
IGHV1-2*02_T174C

182 sequences assigned
71 (39%) exact matches, in which:
71 unique CDR3
6 unique J



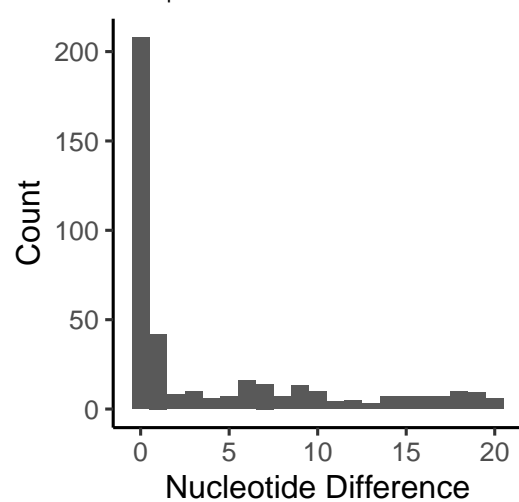
IGHV1-18*04

810 sequences assigned
443 (54.7%) exact matches, in which:
441 unique CDR3
6 unique J



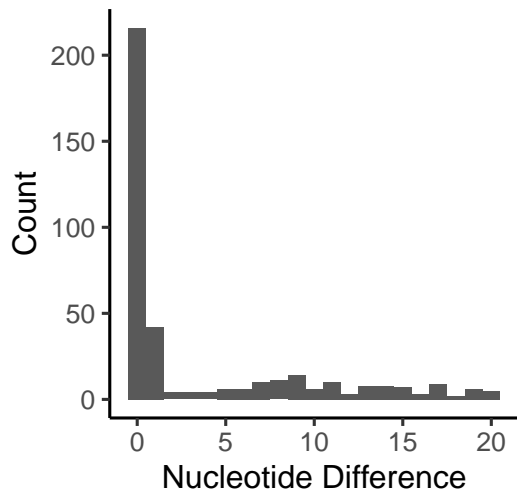
IGHV1-46*01

455 sequences assigned
208 (45.7%) exact matches, in which:
208 unique CDR3
6 unique J



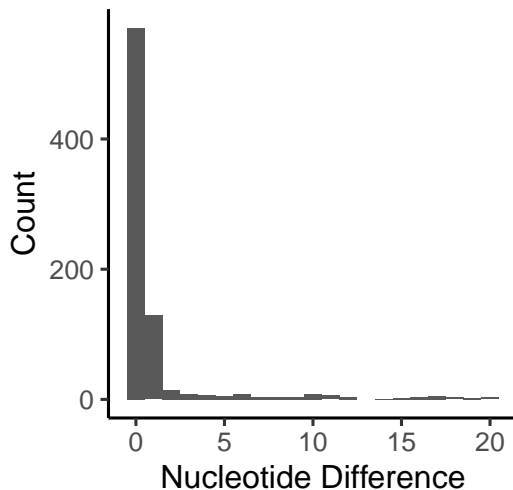
IGHV1-46*03

448 sequences assigned
216 (48.2%) exact matches, in which:
214 unique CDR3
6 unique J



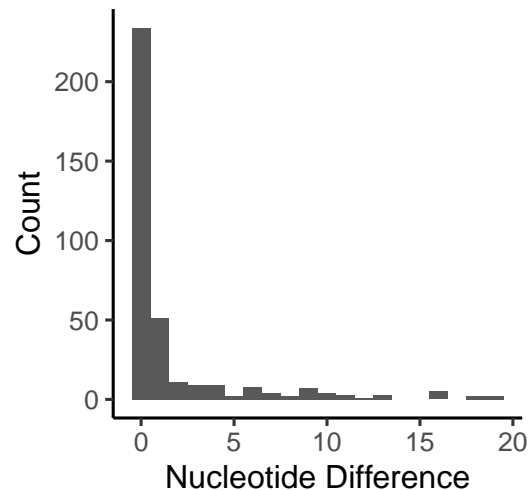
IGHV1-69*06

882 sequences assigned
571 (64.7%) exact matches, in which:
559 unique CDR3
6 unique J



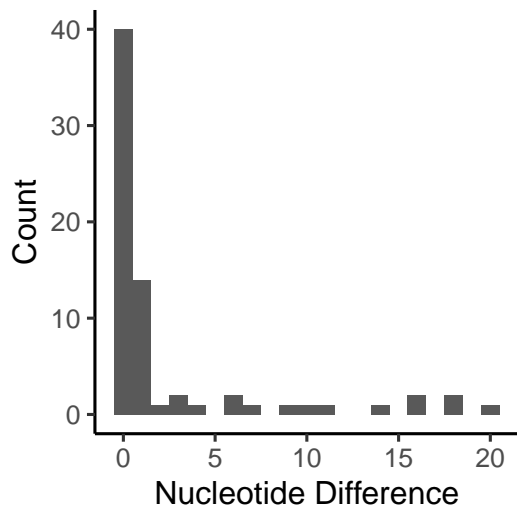
IGHV2-26*01

369 sequences assigned
234 (63.4%) exact matches, in which:
234 unique CDR3
6 unique J



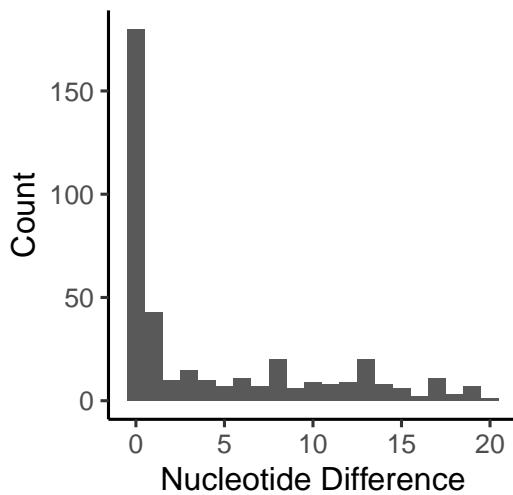
IGHV1-58*01

72 sequences assigned
40 (55.6%) exact matches, in which:
40 unique CDR3
4 unique J



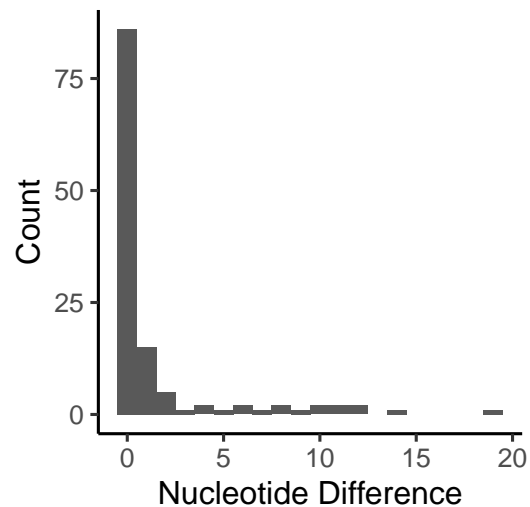
IGHV2-5*01

412 sequences assigned
180 (43.7%) exact matches, in which:
180 unique CDR3
6 unique J



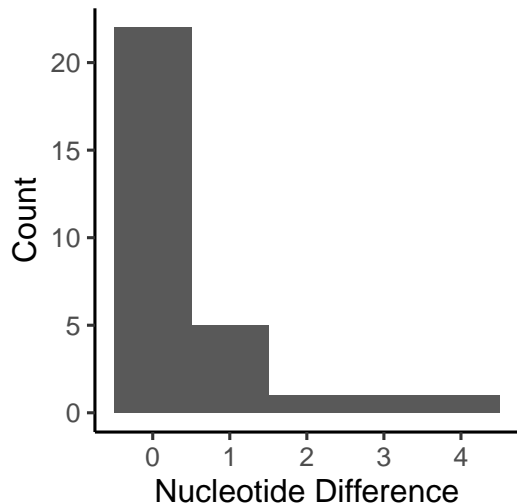
IGHV2-70*01

124 sequences assigned
86 (69.4%) exact matches, in which:
86 unique CDR3
5 unique J



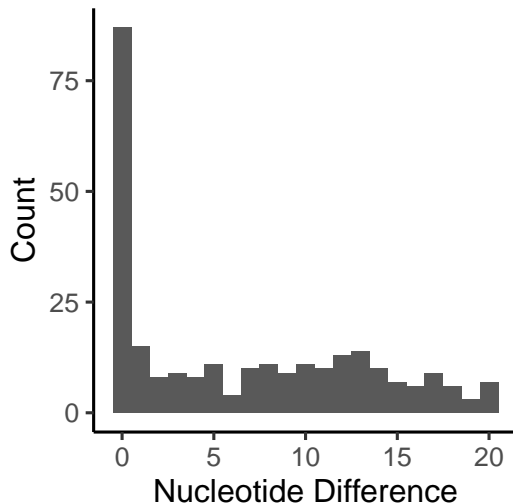
IGHV1-69-2*01

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



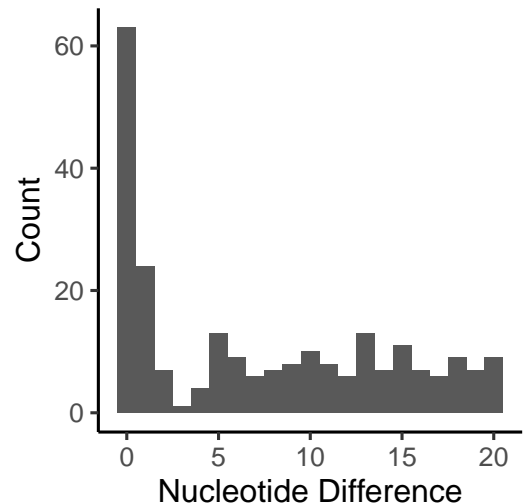
IGHV2-5*02

315 sequences assigned
87 (27.6%) exact matches, in which:
86 unique CDR3
6 unique J



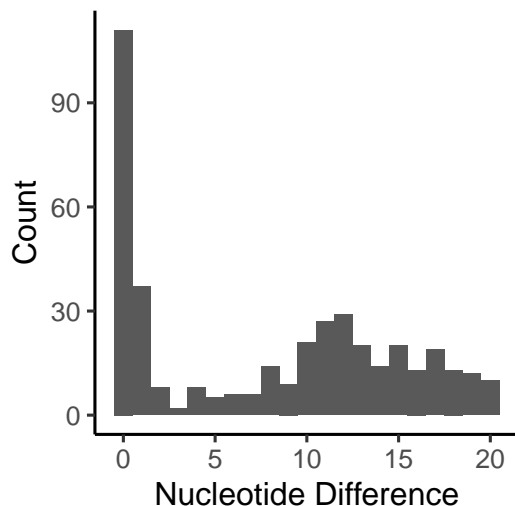
IGHV3-7*05

277 sequences assigned
63 (22.7%) exact matches, in which:
63 unique CDR3
5 unique J



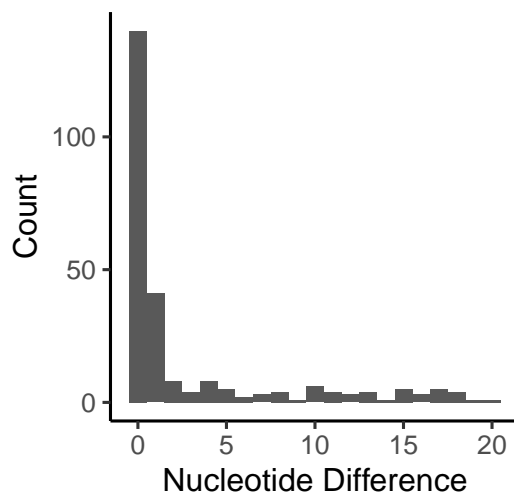
IGHV3-7*04_A144G

493 sequences assigned
111 (22.5%) exact matches, in which:
111 unique CDR3
6 unique J



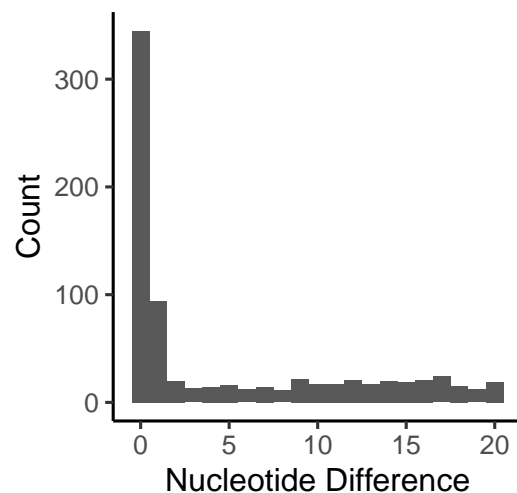
IGHV3-11*06

293 sequences assigned
140 (47.8%) exact matches, in which:
140 unique CDR3
5 unique J



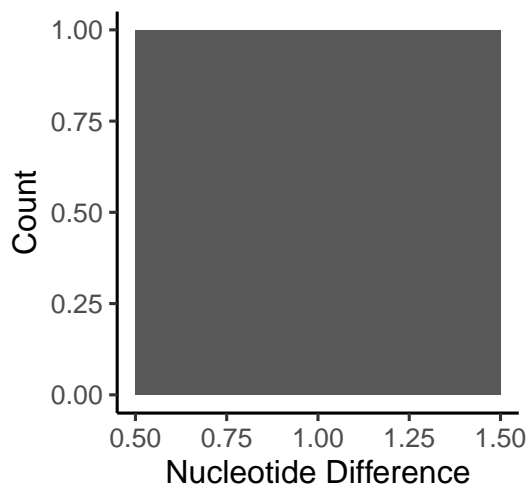
IGHV3-15*01

898 sequences assigned
345 (38.4%) exact matches, in which:
345 unique CDR3
6 unique J



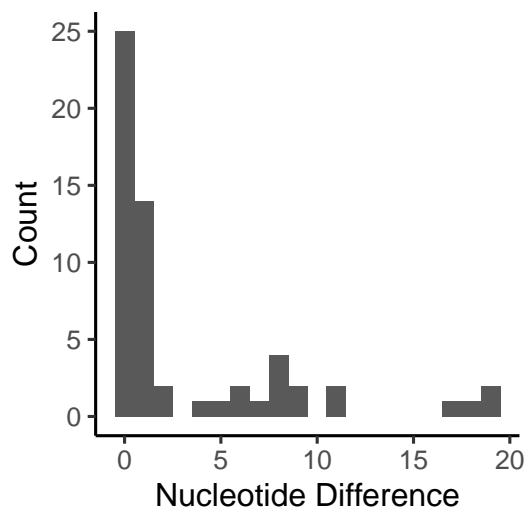
IGHV3-9*01

1 sequences assigned
No exact matches.



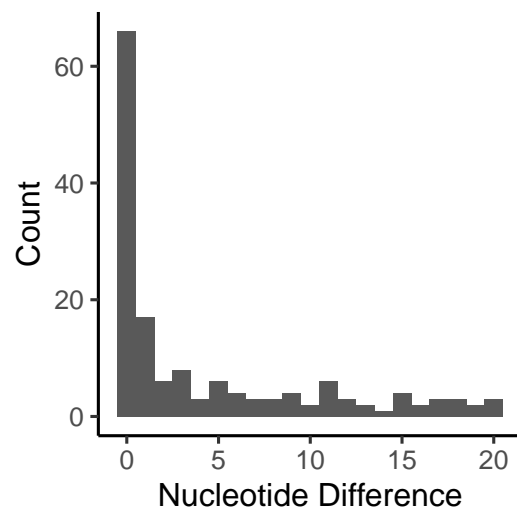
IGHV3-13*04

66 sequences assigned
25 (37.9%) exact matches, in which:
25 unique CDR3
4 unique J



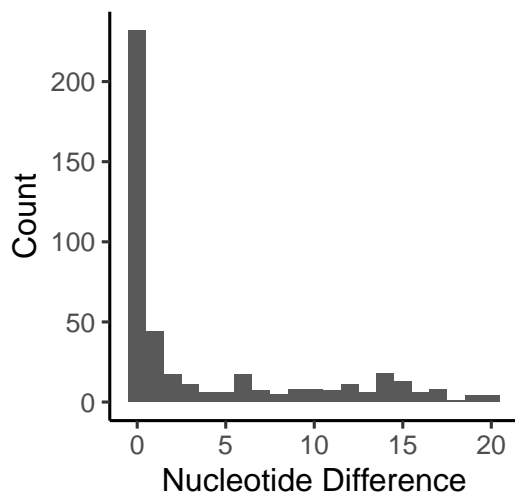
IGHV3-20*04

168 sequences assigned
66 (39.3%) exact matches, in which:
66 unique CDR3
4 unique J



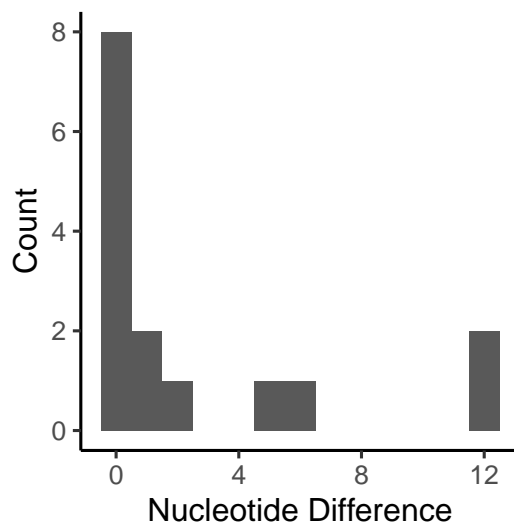
IGHV3-11*05

509 sequences assigned
232 (45.6%) exact matches, in which:
231 unique CDR3
6 unique J



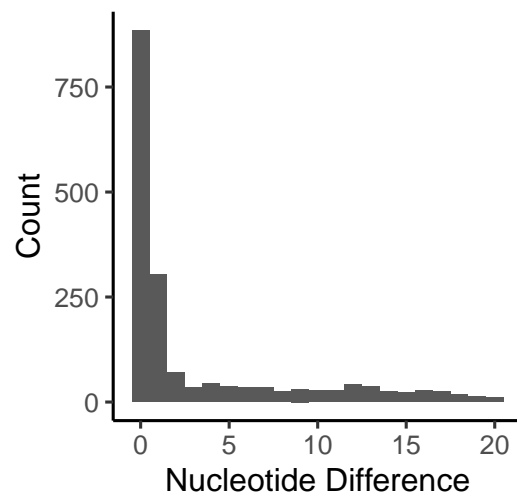
IGHV3-13*05

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



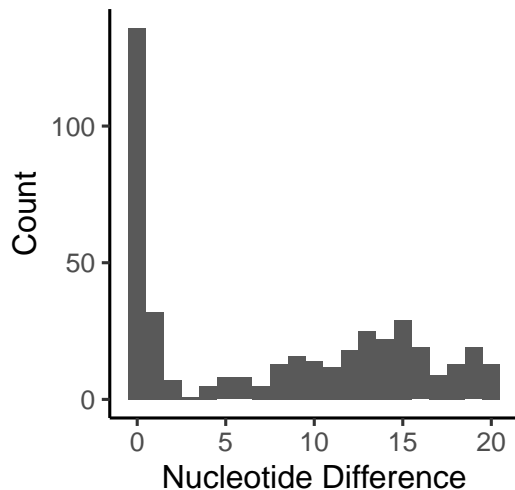
IGHV3-21*01

1937 sequences assigned
885 (45.7%) exact matches, in which:
881 unique CDR3
6 unique J



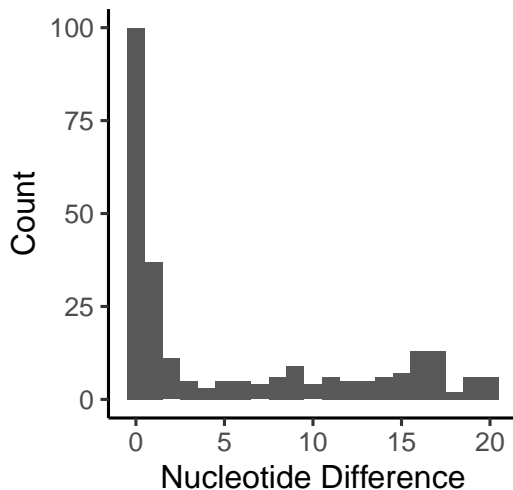
IGHV3–23*01_T158G

544 sequences assigned
136 (25%) exact matches, in which:
135 unique CDR3
6 unique J



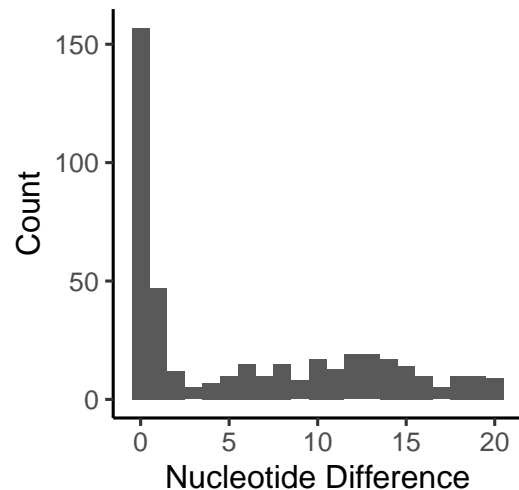
IGHV3–33*01_T158G

312 sequences assigned
100 (32.1%) exact matches, in which:
100 unique CDR3
5 unique J



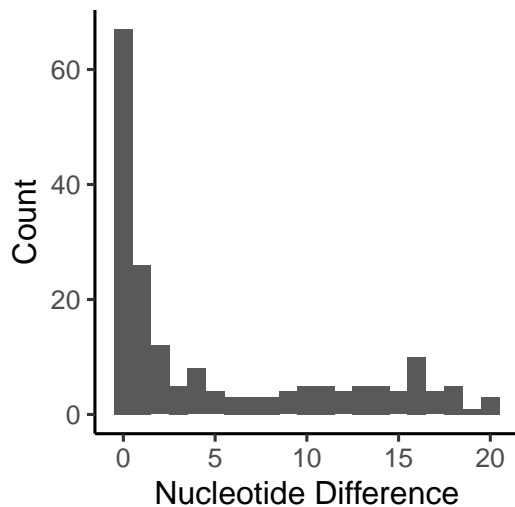
IGHV3–48*01

494 sequences assigned
157 (31.8%) exact matches, in which:
155 unique CDR3
6 unique J



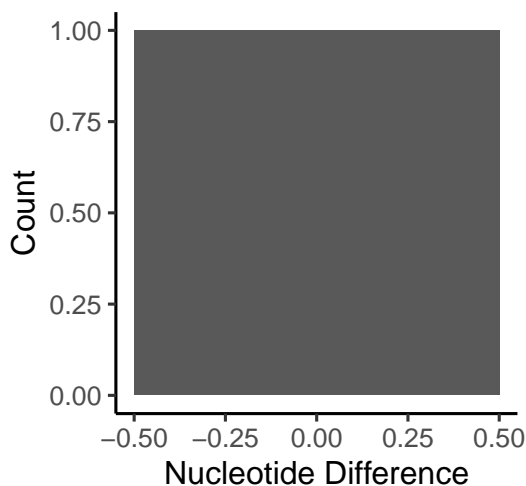
IGHV3–30*04_T158G

229 sequences assigned
67 (29.3%) exact matches, in which:
67 unique CDR3
6 unique J



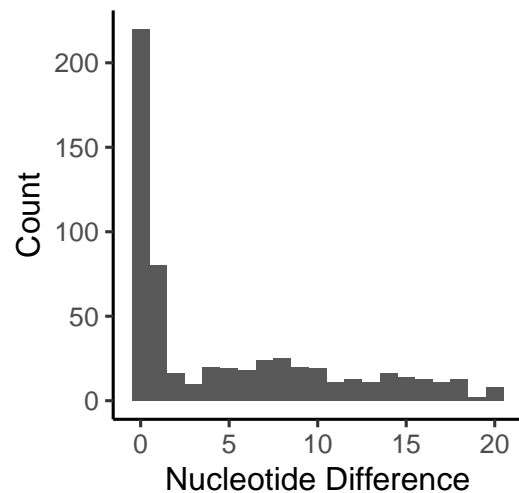
IGHV3–35*01

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



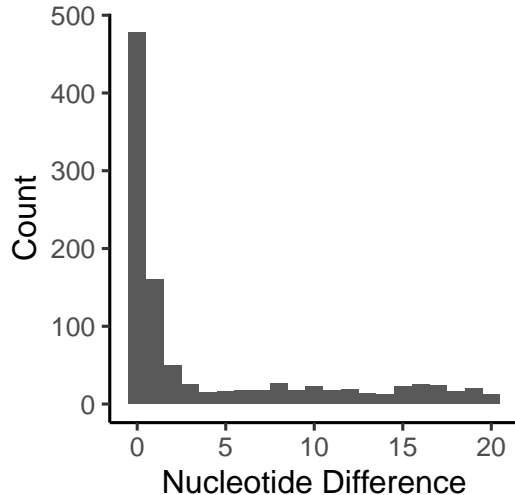
IGHV3–48*03

650 sequences assigned
220 (33.8%) exact matches, in which:
219 unique CDR3
6 unique J



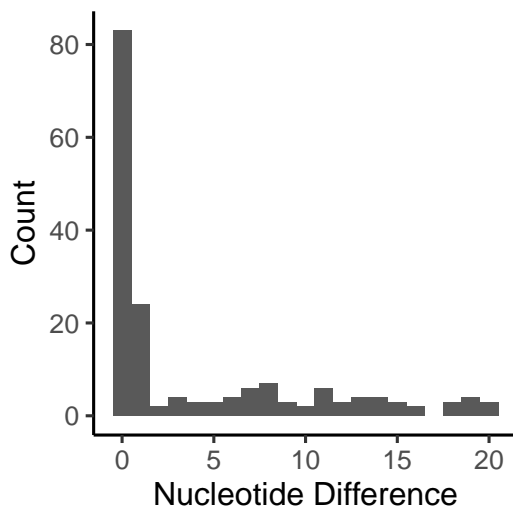
IGHV3–33*01

1177 sequences assigned
478 (40.6%) exact matches, in which:
474 unique CDR3
6 unique J



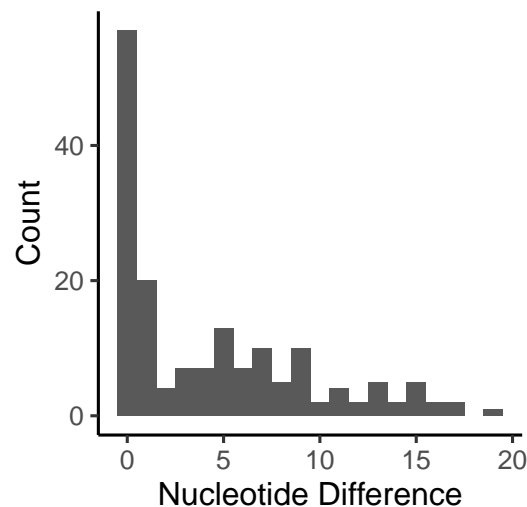
IGHV3–43*02

216 sequences assigned
83 (38.4%) exact matches, in which:
83 unique CDR3
6 unique J



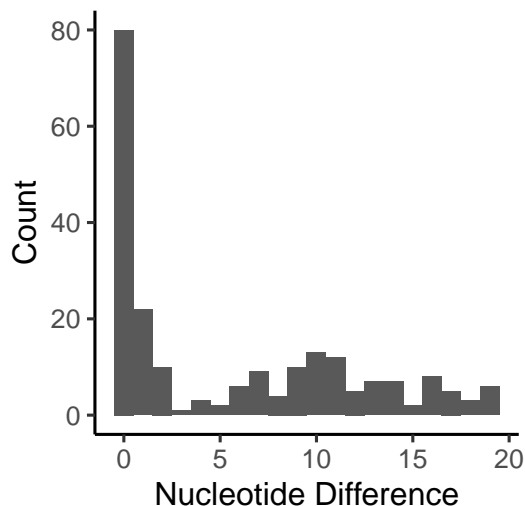
IGHV3–49*03

202 sequences assigned
57 (28.2%) exact matches, in which:
57 unique CDR3
4 unique J



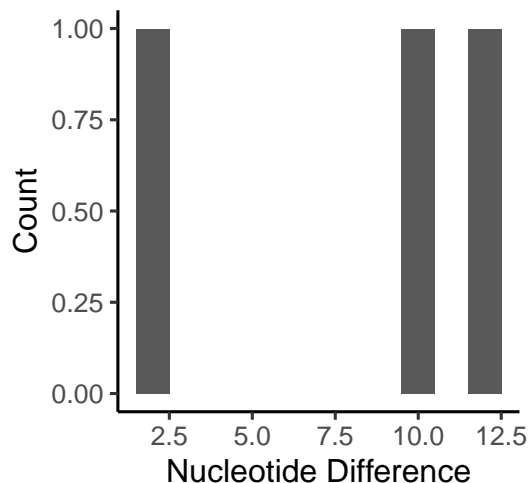
IGHV3-49*04

254 sequences assigned
80 (31.5%) exact matches, in which:
80 unique CDR3
4 unique J



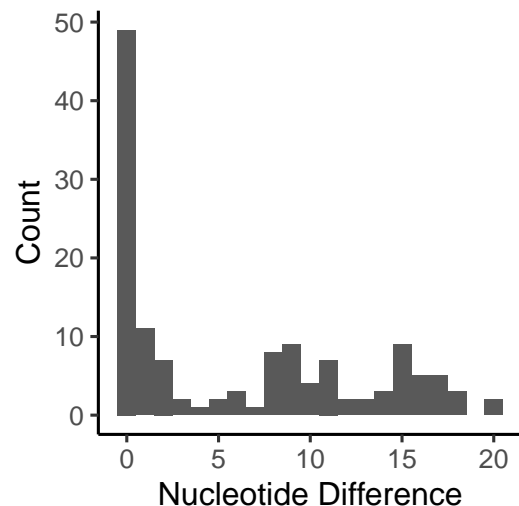
IGHV3-66*03

3 sequences assigned
No exact matches.



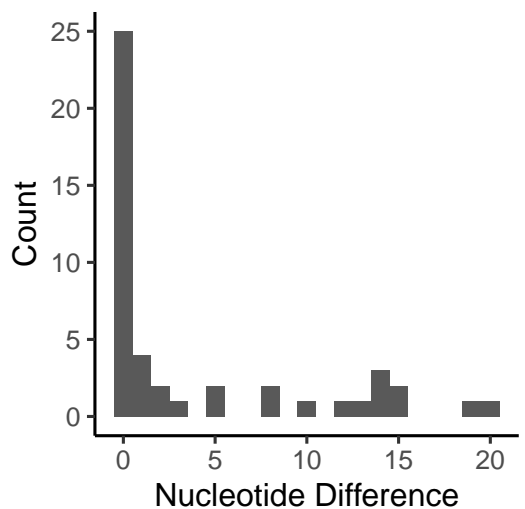
IGHV3-73*02

148 sequences assigned
49 (33.1%) exact matches, in which:
49 unique CDR3
4 unique J



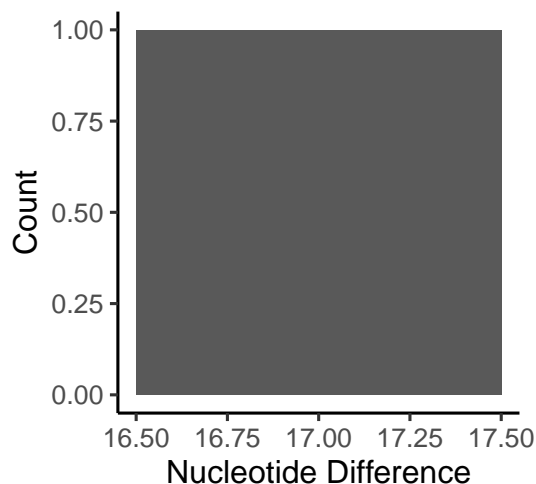
IGHV3-53*04

56 sequences assigned
25 (44.6%) exact matches, in which:
25 unique CDR3
6 unique J



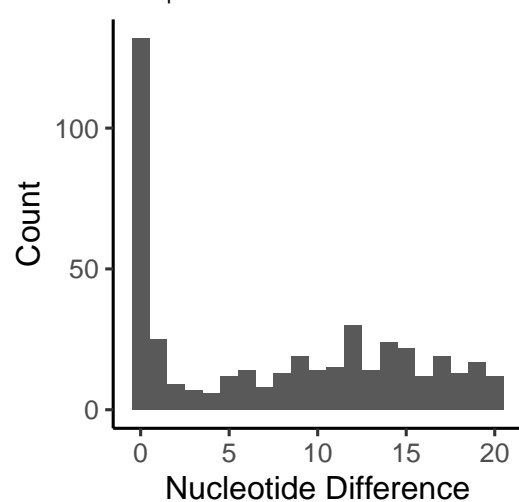
IGHV3-69-1*01

2 sequences assigned
No exact matches.



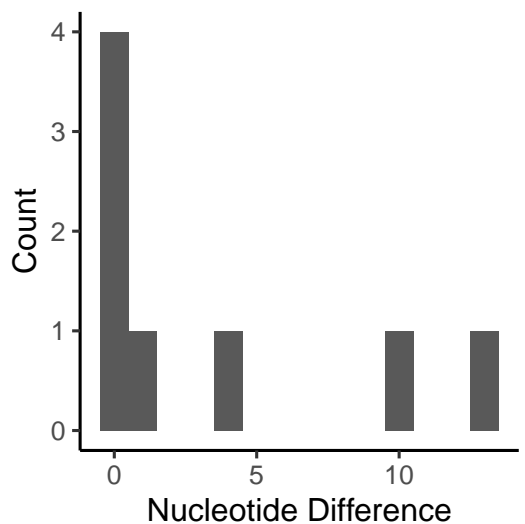
IGHV3-74*01

515 sequences assigned
132 (25.6%) exact matches, in which:
132 unique CDR3
6 unique J



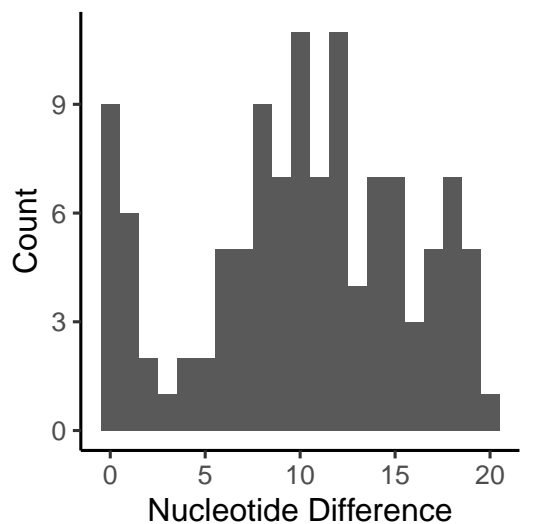
IGHV3-64*02

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



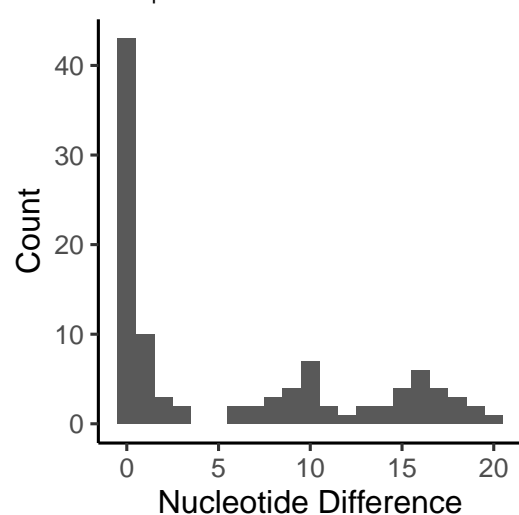
IGHV3-72*01

133 sequences assigned
9 (6.8%) exact matches, in which:
9 unique CDR3
3 unique J



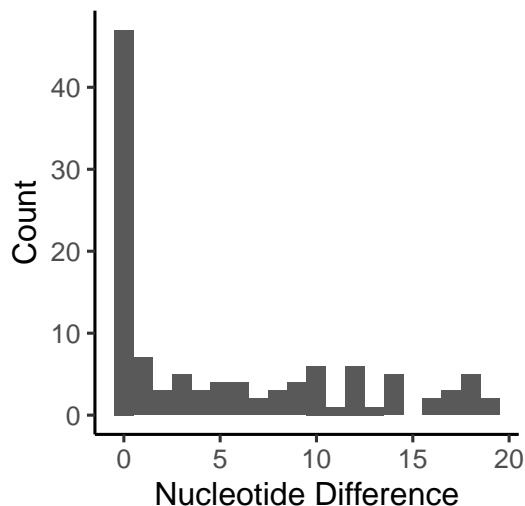
IGHV3-64D*06

119 sequences assigned
43 (36.1%) exact matches, in which:
43 unique CDR3
5 unique J



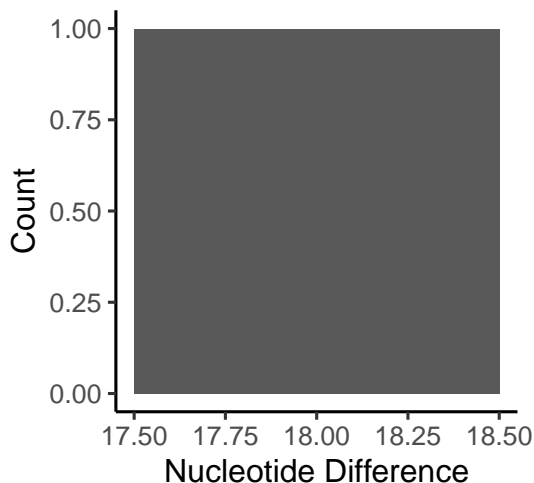
IGHV3-64D*08

133 sequences assigned
47 (35.3%) exact matches, in which:
47 unique CDR3
5 unique J



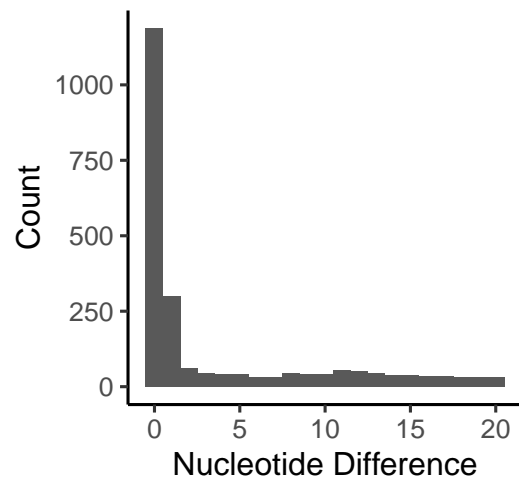
IGHV4-30-4*08

1 sequences assigned
No exact matches.



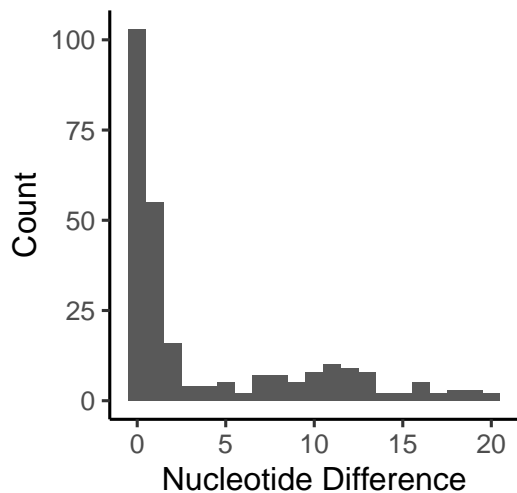
IGHV4-39*01

2573 sequences assigned
1187 (46.1%) exact matches, in which:
1180 unique CDR3
6 unique J



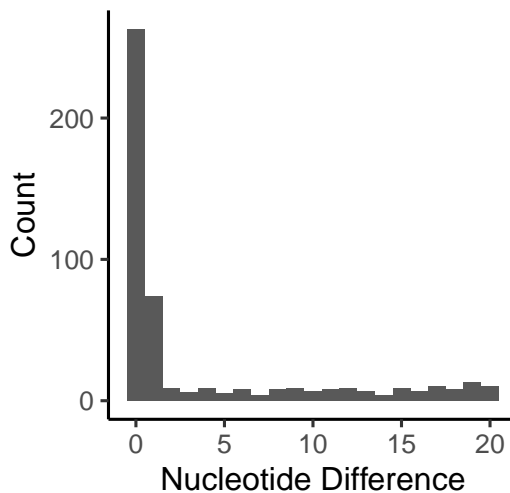
IGHV4-4*02

322 sequences assigned
103 (32%) exact matches, in which:
103 unique CDR3
5 unique J



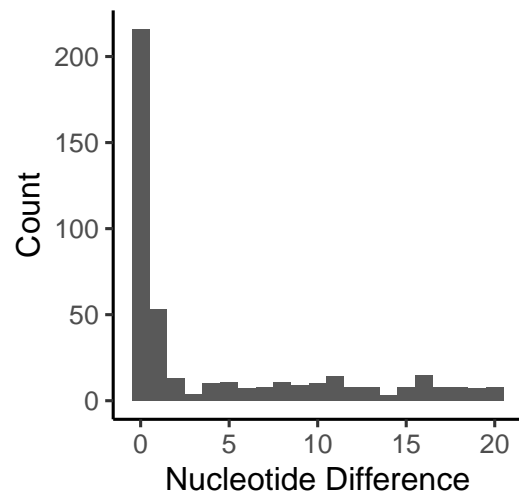
IGHV4-31*03

554 sequences assigned
263 (47.5%) exact matches, in which:
263 unique CDR3
6 unique J



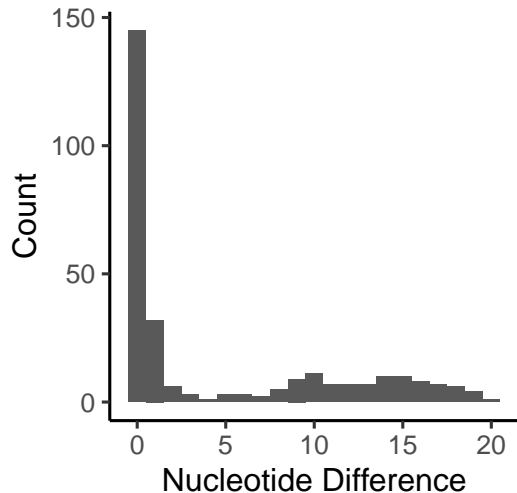
IGHV4-59*01

529 sequences assigned
216 (40.8%) exact matches, in which:
216 unique CDR3
6 unique J



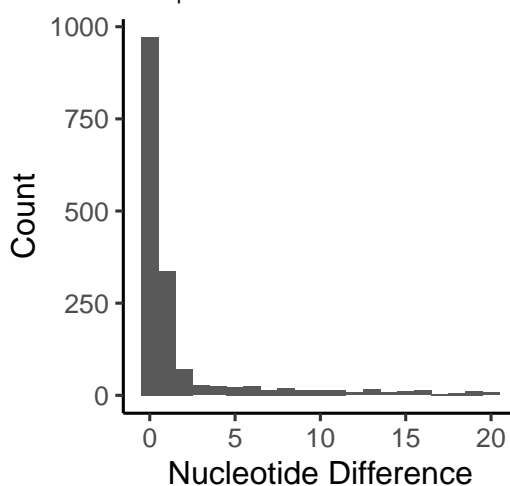
IGHV4-4*07

310 sequences assigned
145 (46.8%) exact matches, in which:
145 unique CDR3
5 unique J



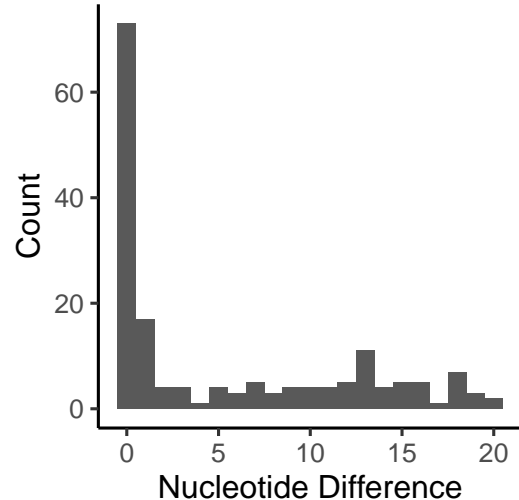
IGHV4-34*01

1753 sequences assigned
972 (55.4%) exact matches, in which:
964 unique CDR3
6 unique J



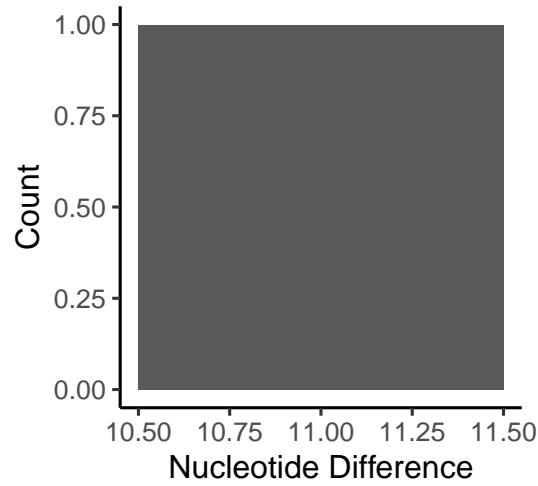
IGHV4-61*01

210 sequences assigned
73 (34.8%) exact matches, in which:
73 unique CDR3
5 unique J



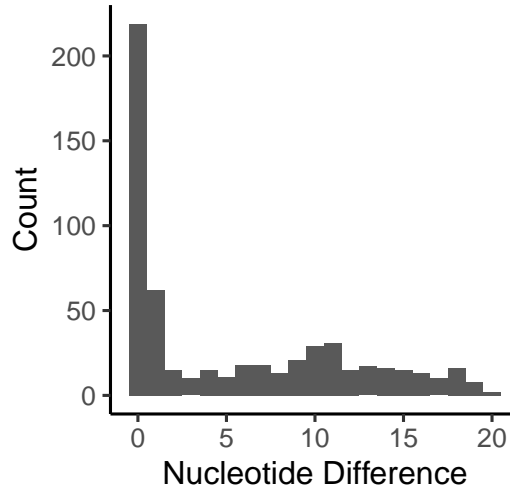
IGHV1/OR15-1*04

1 sequences assigned
No exact matches.



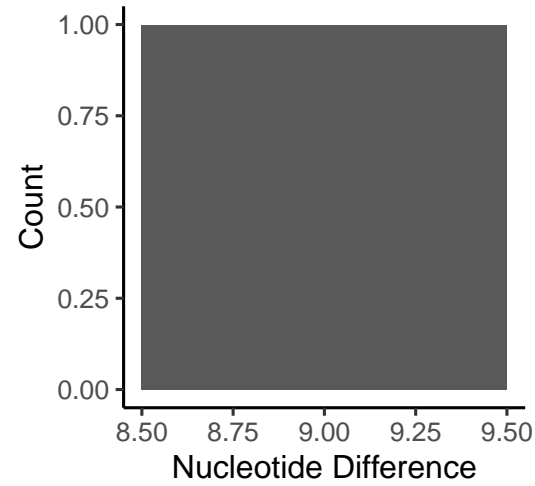
IGHV5-51*01

644 sequences assigned
219 (34%) exact matches, in which:
219 unique CDR3
6 unique J



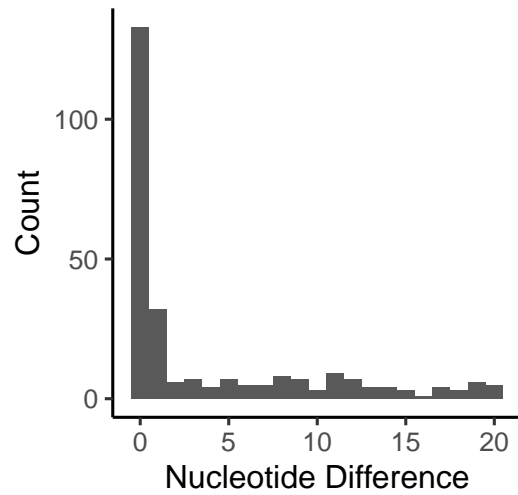
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



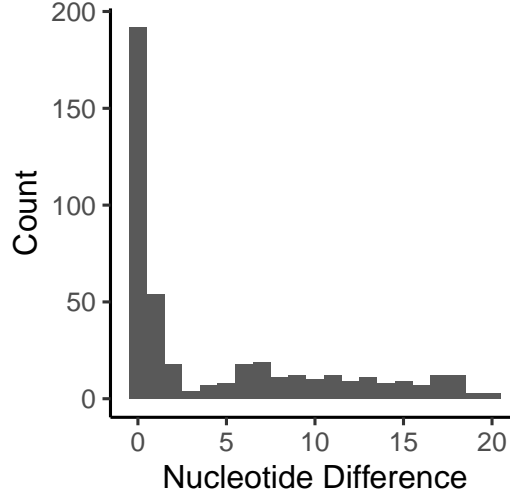
IGHV5-10-1*01

298 sequences assigned
133 (44.6%) exact matches, in which:
133 unique CDR3
6 unique J



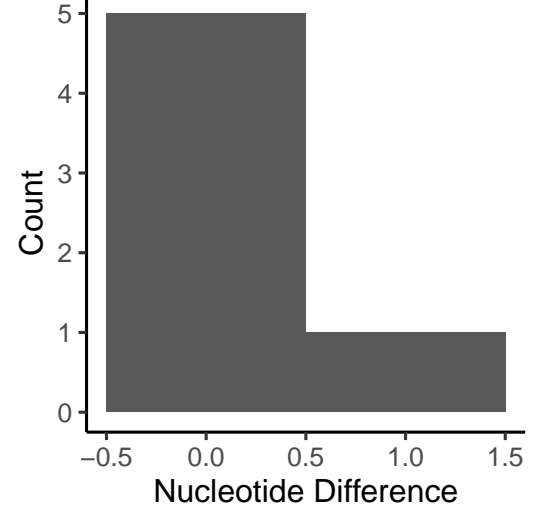
IGHV5-51*01_C45G

489 sequences assigned
192 (39.3%) exact matches, in which:
192 unique CDR3
6 unique J



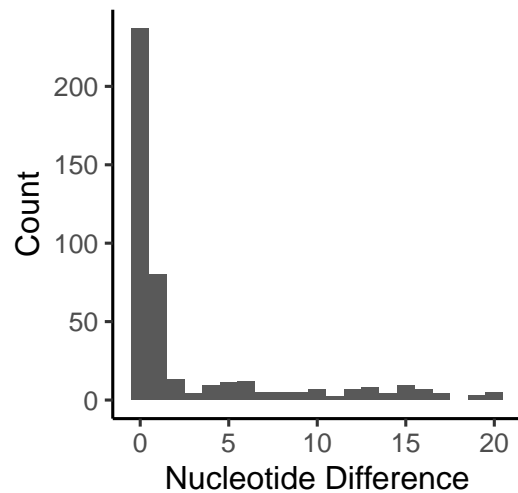
IGHV7-4-1*01

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



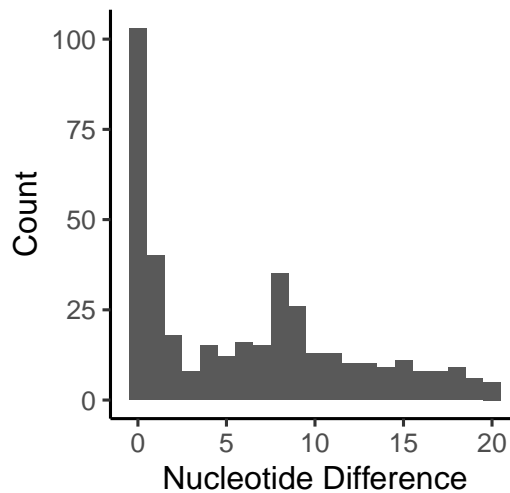
IGHV5-10-1*03

481 sequences assigned
237 (49.3%) exact matches, in which:
237 unique CDR3
6 unique J



IGHV6-1*01

423 sequences assigned
103 (24.3%) exact matches, in which:
102 unique CDR3
5 unique J





Warning – no inferred sequences found.