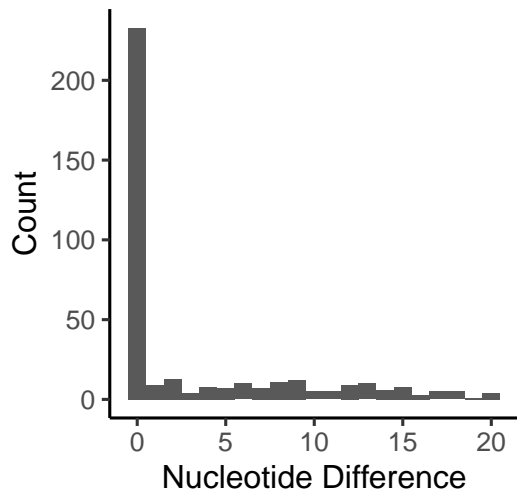


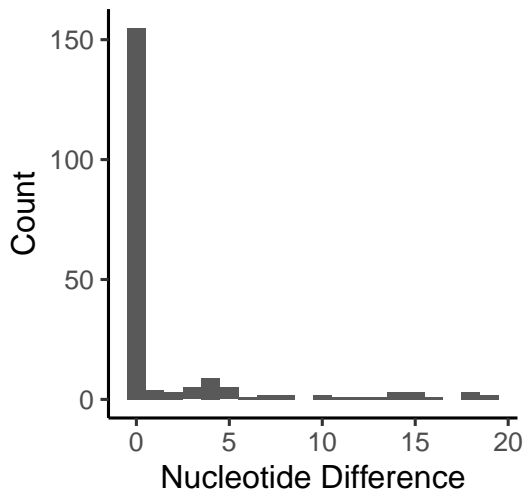
IGHV1-2*02

391 sequences assigned
233 (59.6%) exact matches, in which:
233 unique CDR3
6 unique J



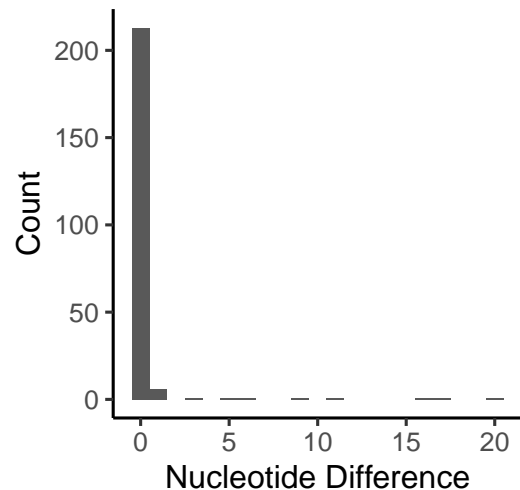
IGHV1-8*01

206 sequences assigned
155 (75.2%) exact matches, in which:
154 unique CDR3
5 unique J



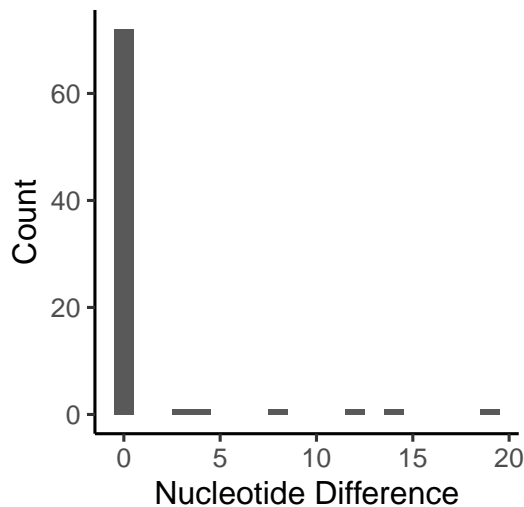
IGHV1-24*01

230 sequences assigned
213 (92.6%) exact matches, in which:
213 unique CDR3
6 unique J



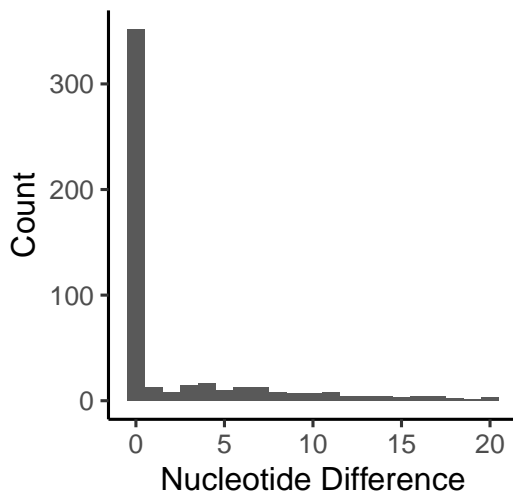
IGHV1-2*04

80 sequences assigned
72 (90%) exact matches, in which:
72 unique CDR3
5 unique J



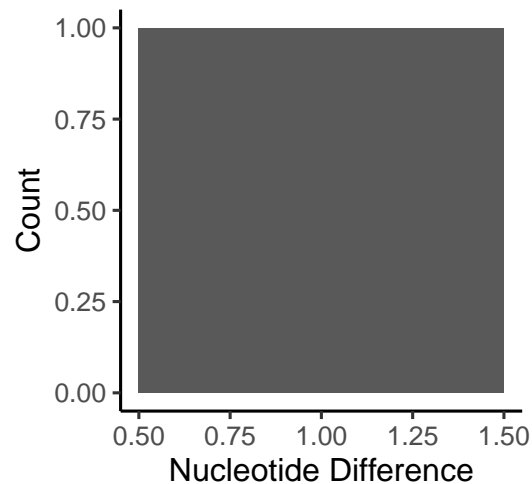
IGHV1-18*01

514 sequences assigned
352 (68.5%) exact matches, in which:
352 unique CDR3
6 unique J



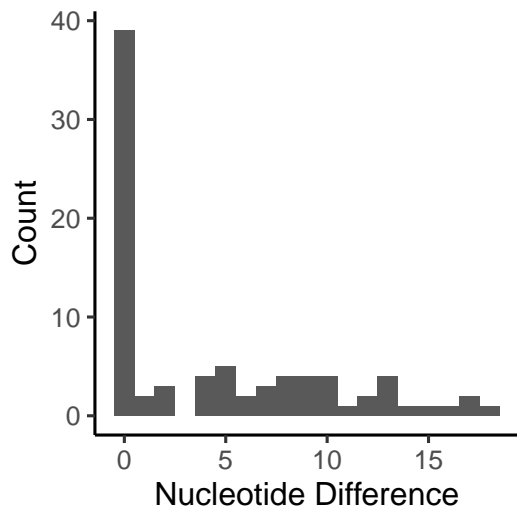
IGHV1-45*02

1 sequences assigned
No exact matches.



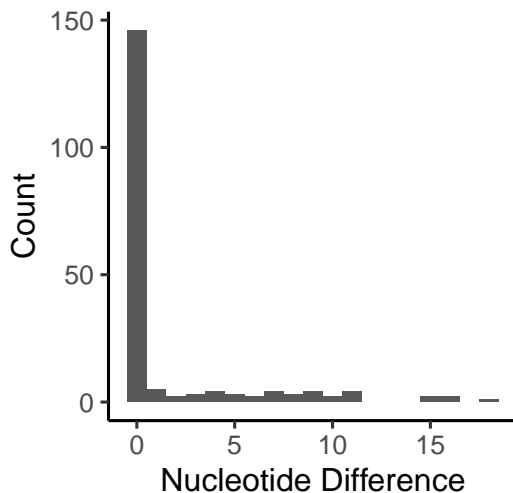
IGHV1-3*01_05

90 sequences assigned
39 (43.3%) exact matches, in which:
39 unique CDR3
6 unique J



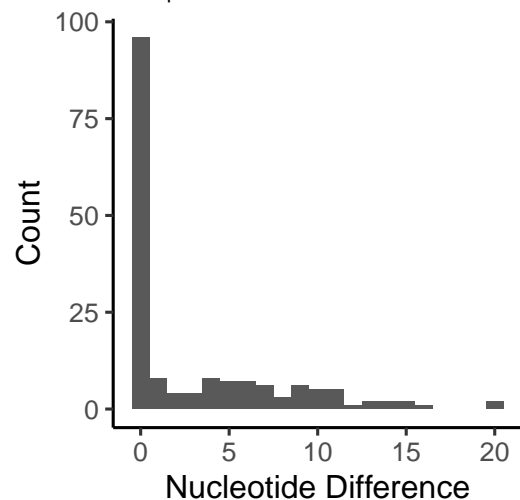
IGHV1-18*04

191 sequences assigned
146 (76.4%) exact matches, in which:
146 unique CDR3
6 unique J



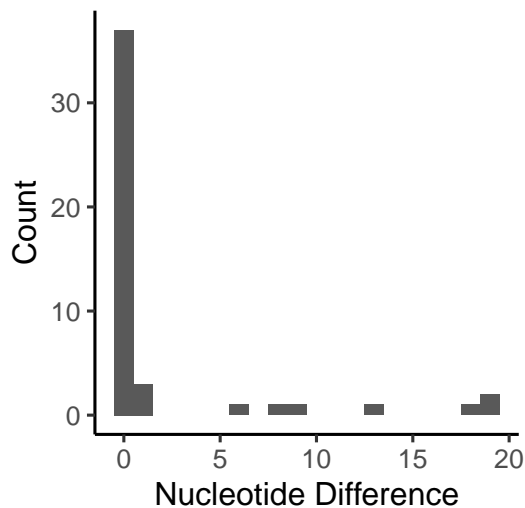
IGHV1-46*01

179 sequences assigned
96 (53.6%) exact matches, in which:
96 unique CDR3
6 unique J



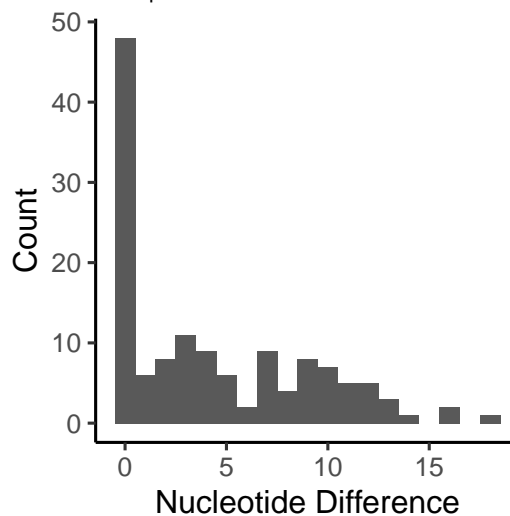
IGHV1-58*01_03

48 sequences assigned
37 (77.1%) exact matches, in which:
37 unique CDR3
6 unique J



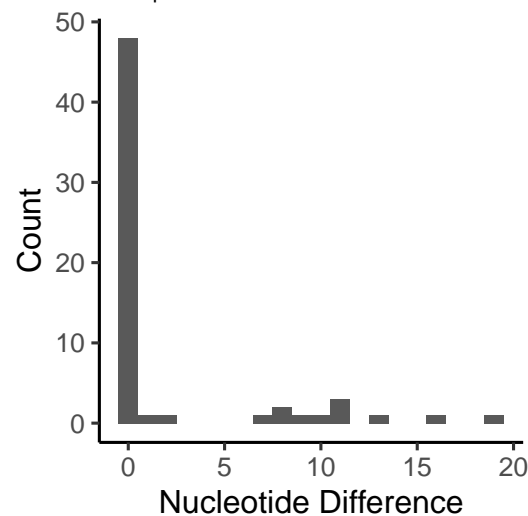
IGHV2-5*01

140 sequences assigned
48 (34.3%) exact matches, in which:
48 unique CDR3
5 unique J



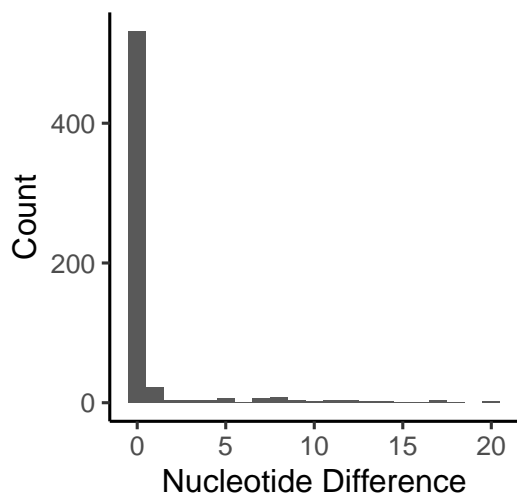
IGHV2-70*01

61 sequences assigned
48 (78.7%) exact matches, in which:
47 unique CDR3
4 unique J



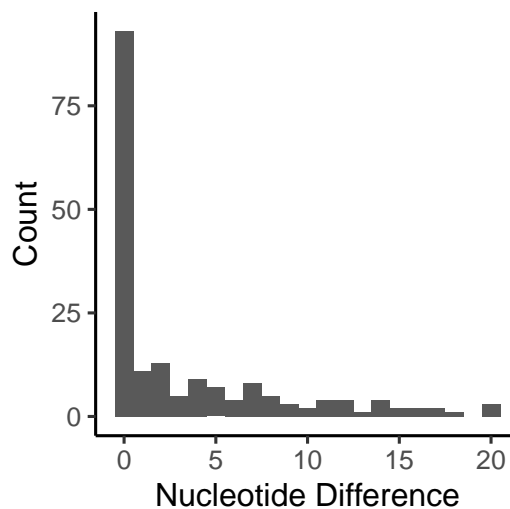
IGHV1-69*01_12_13

617 sequences assigned
532 (86.2%) exact matches, in which:
530 unique CDR3
6 unique J



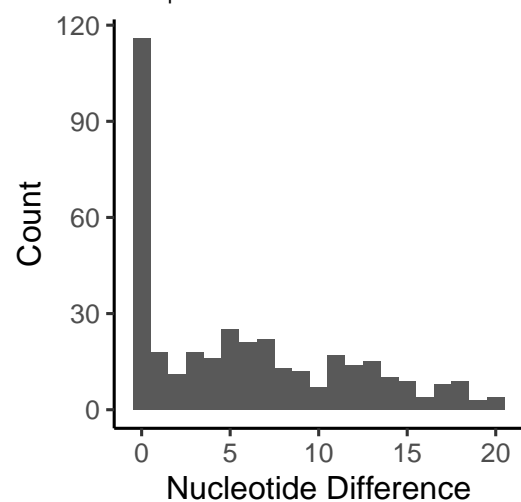
IGHV2-5*02

190 sequences assigned
93 (48.9%) exact matches, in which:
93 unique CDR3
6 unique J



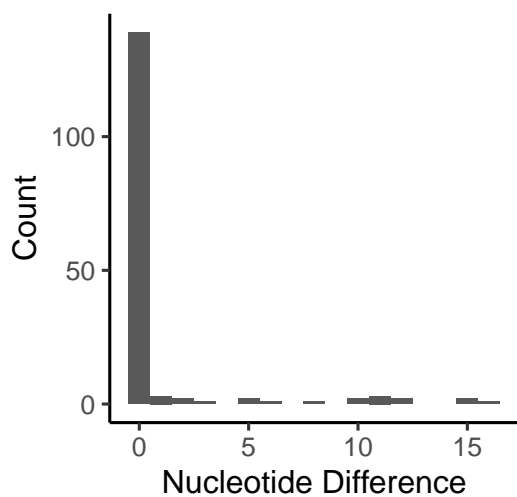
IGHV3-7*01

386 sequences assigned
116 (30.1%) exact matches, in which:
114 unique CDR3
6 unique J



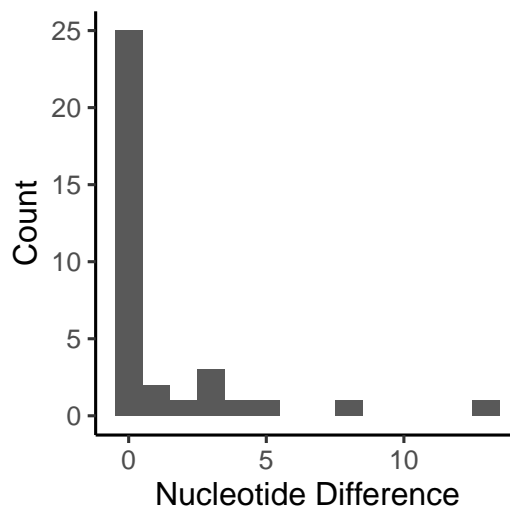
IGHV1-69*06_14

160 sequences assigned
139 (86.9%) exact matches, in which:
139 unique CDR3
6 unique J



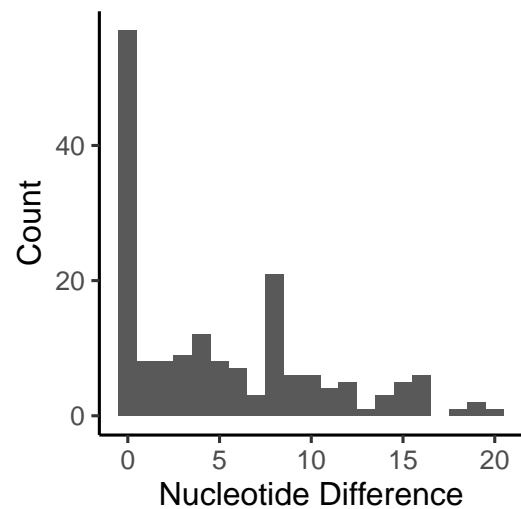
IGHV2-26*01

35 sequences assigned
25 (71.4%) exact matches, in which:
25 unique CDR3
4 unique J



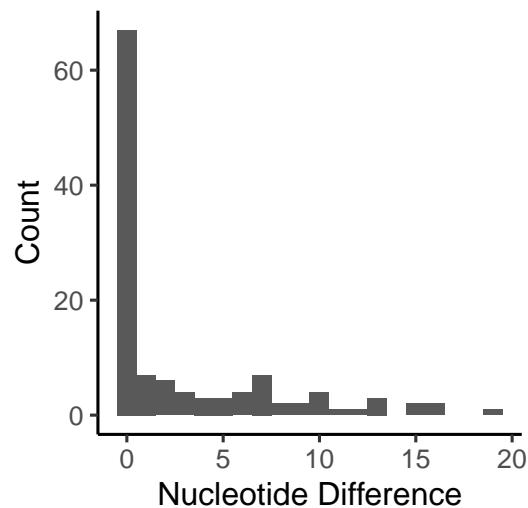
IGHV3-7*04

182 sequences assigned
57 (31.3%) exact matches, in which:
57 unique CDR3
6 unique J



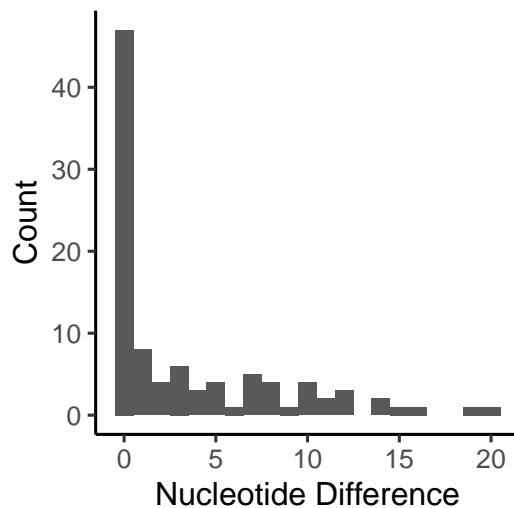
IGHV3-9*01

122 sequences assigned
67 (54.9%) exact matches, in which:
67 unique CDR3
5 unique J



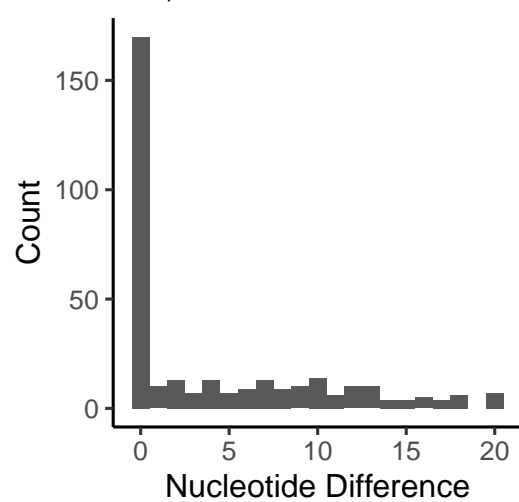
IGHV3-11*03_05

101 sequences assigned
47 (46.5%) exact matches, in which:
46 unique CDR3
5 unique J



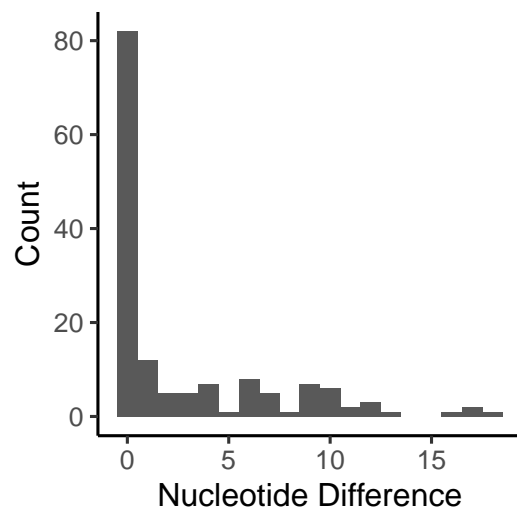
IGHV3-15*01_02

357 sequences assigned
170 (47.6%) exact matches, in which:
167 unique CDR3
6 unique J



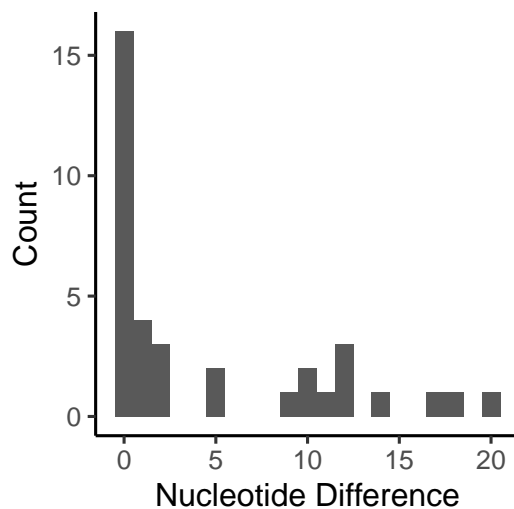
IGHV3-11*01

157 sequences assigned
82 (52.2%) exact matches, in which:
80 unique CDR3
5 unique J



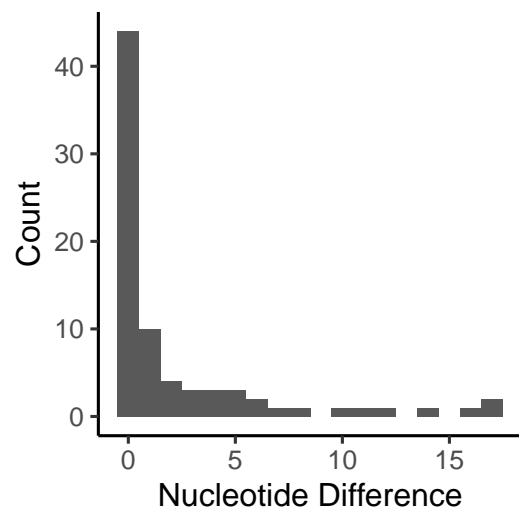
IGHV3-13*01

40 sequences assigned
16 (40%) exact matches, in which:
15 unique CDR3
3 unique J



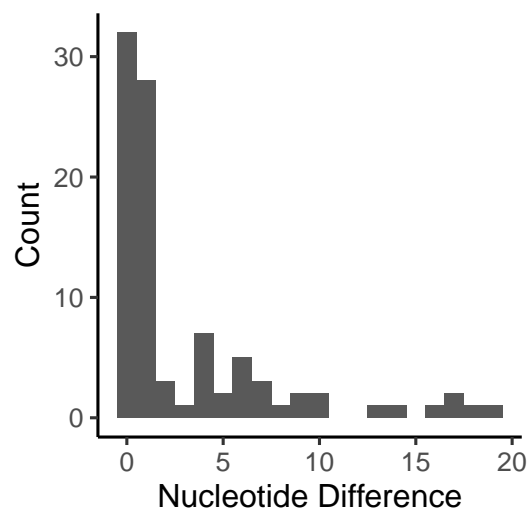
IGHV3-20*03_04

82 sequences assigned
44 (53.7%) exact matches, in which:
44 unique CDR3
5 unique J



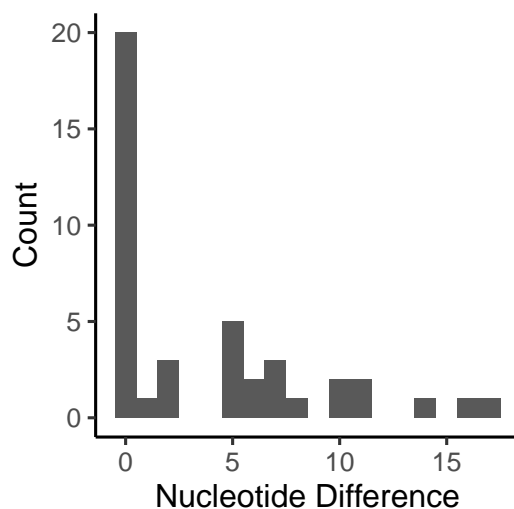
IGHV3-11*06

95 sequences assigned
32 (33.7%) exact matches, in which:
31 unique CDR3
5 unique J



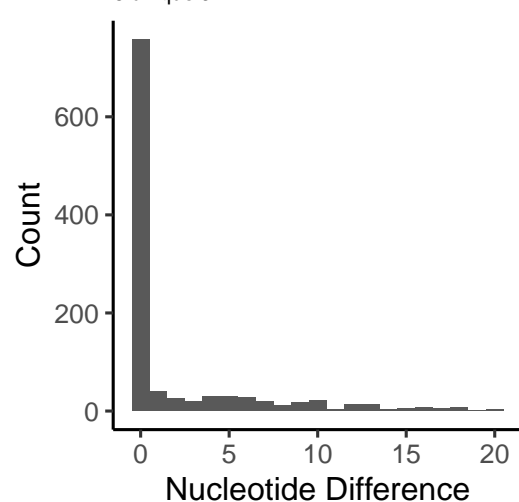
IGHV3-13*04

43 sequences assigned
20 (46.5%) exact matches, in which:
20 unique CDR3
5 unique J



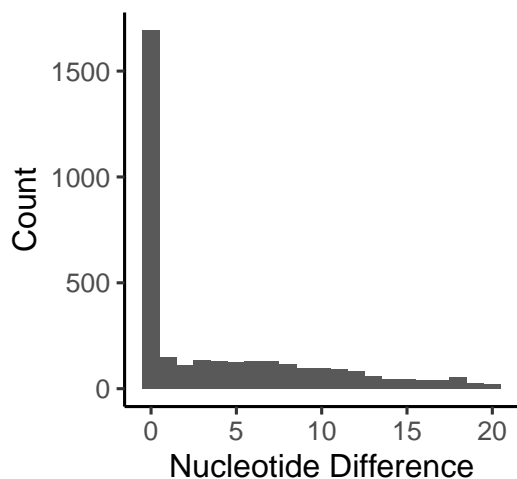
IGHV3-21*01_02

1096 sequences assigned
758 (69.2%) exact matches, in which:
741 unique CDR3
6 unique J



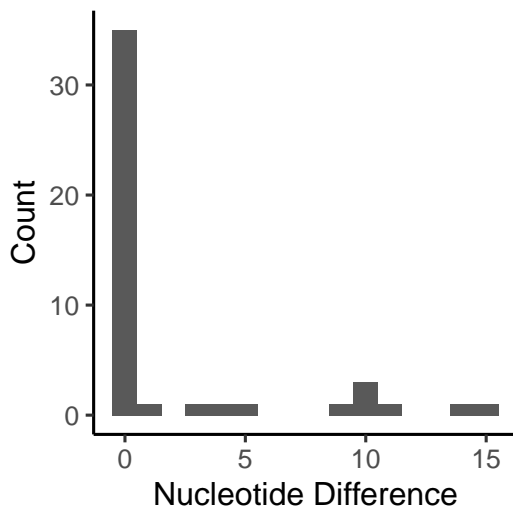
IGHV3-23*01_04

3510 sequences assigned
1692 (48.2%) exact matches, in which:
1629 unique CDR3
6 unique J



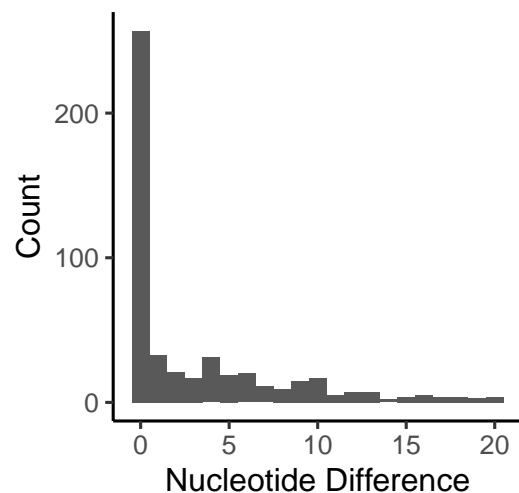
IGHV3-43*01

47 sequences assigned
35 (74.5%) exact matches, in which:
35 unique CDR3
4 unique J



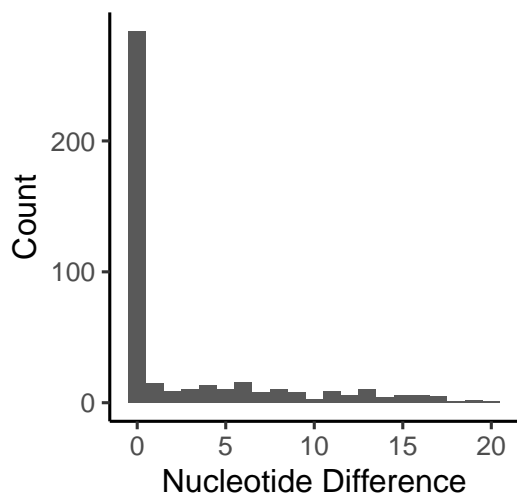
IGHV3-53*01_02

502 sequences assigned
257 (51.2%) exact matches, in which:
249 unique CDR3
6 unique J



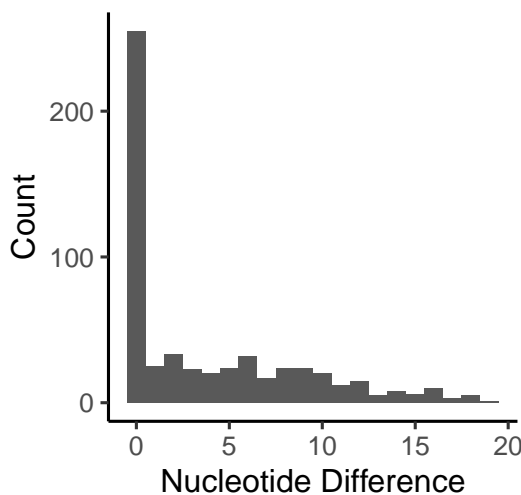
IGHV3-30-3*01

464 sequences assigned
284 (61.2%) exact matches, in which:
279 unique CDR3
6 unique J



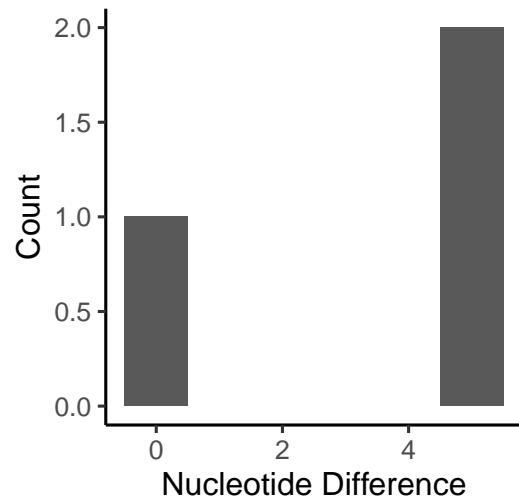
IGHV3-48*02

578 sequences assigned
255 (44.1%) exact matches, in which:
251 unique CDR3
6 unique J



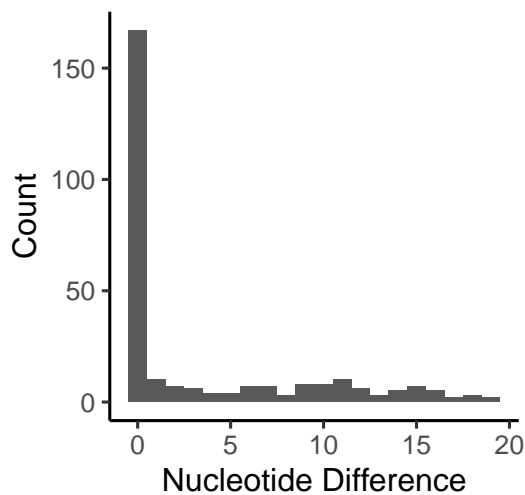
IGHV3-64*02_07

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



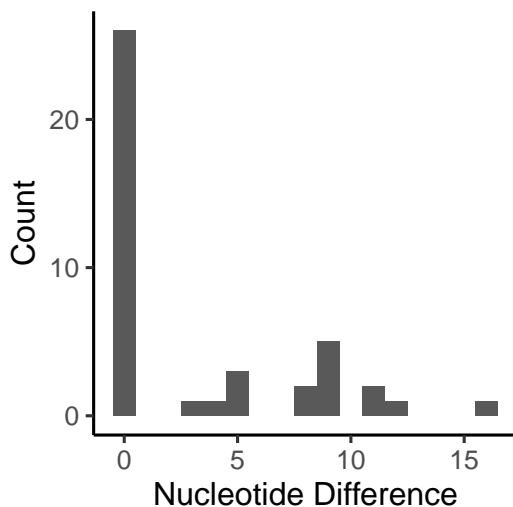
IGHV3-33*01

282 sequences assigned
167 (59.2%) exact matches, in which:
165 unique CDR3
6 unique J



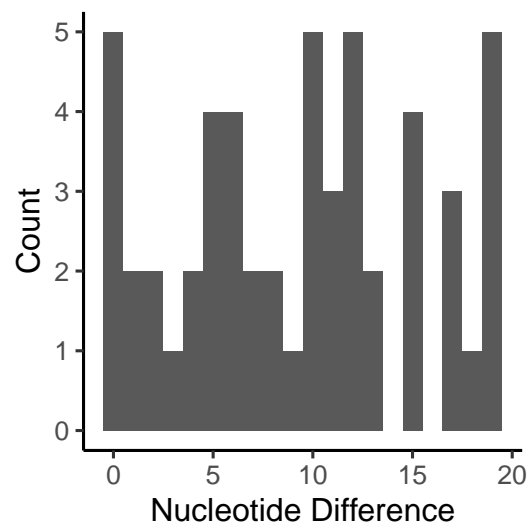
IGHV3-49*03_05

46 sequences assigned
26 (56.5%) exact matches, in which:
26 unique CDR3
5 unique J



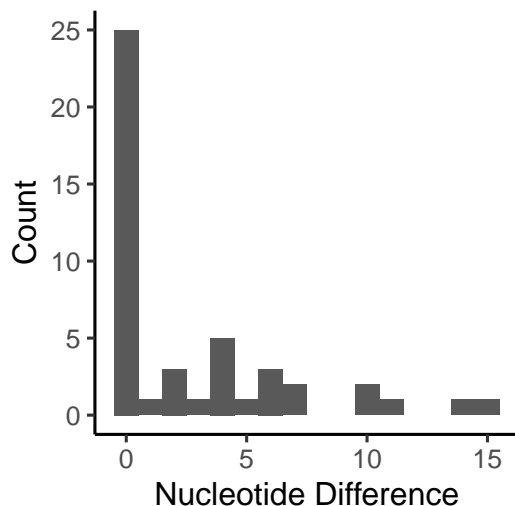
IGHV3-72*01

67 sequences assigned
5 (7.5%) exact matches, in which:
5 unique CDR3
2 unique J



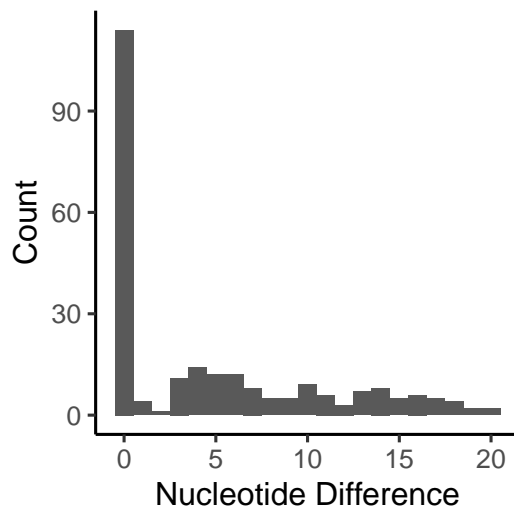
IGHV3-73*01_02

46 sequences assigned
25 (54.3%) exact matches, in which:
25 unique CDR3
4 unique J



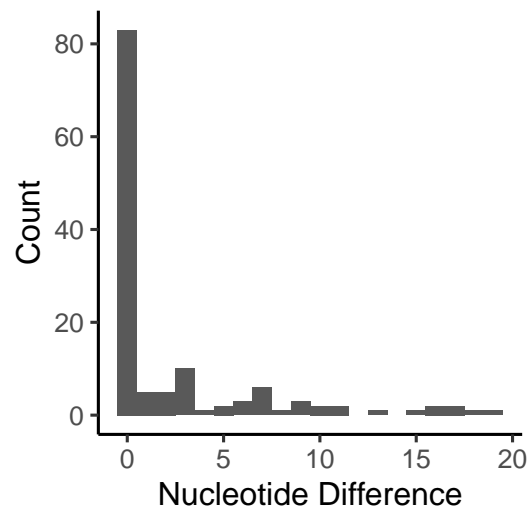
IGHV3-64D*06

254 sequences assigned
114 (44.9%) exact matches, in which:
113 unique CDR3
6 unique J



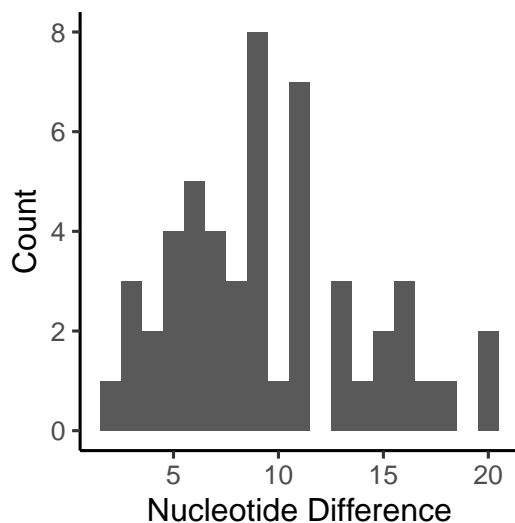
IGHV4-30-4*01

140 sequences assigned
83 (59.3%) exact matches, in which:
82 unique CDR3
6 unique J



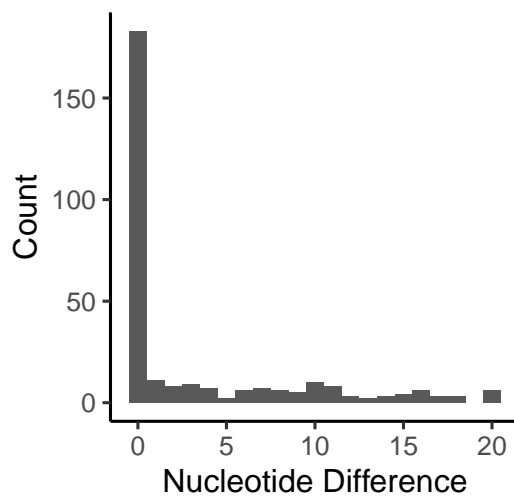
IGHV3-74*03

54 sequences assigned
No exact matches.



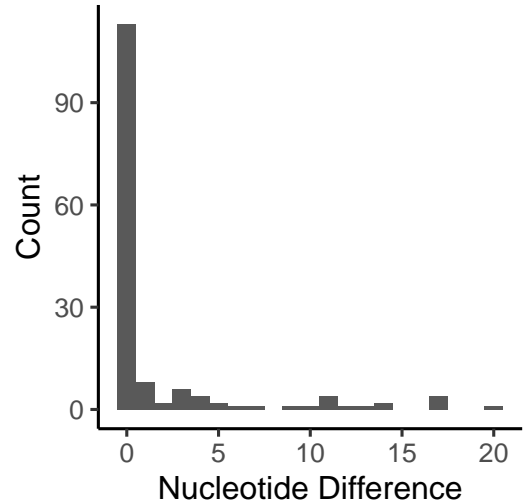
IGHV4-4*02_03

308 sequences assigned
183 (59.4%) exact matches, in which:
181 unique CDR3
6 unique J



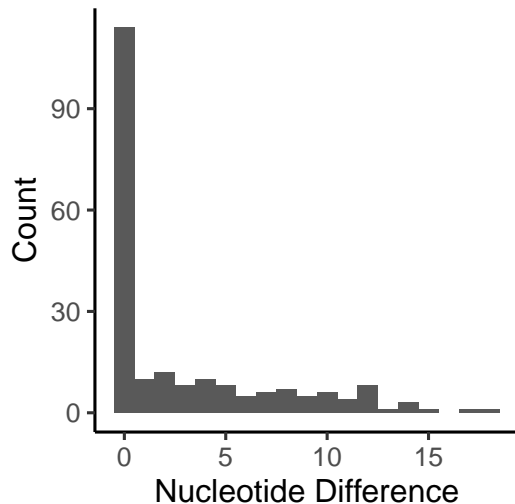
IGHV4-30-2*01

169 sequences assigned
113 (66.9%) exact matches, in which:
109 unique CDR3
6 unique J



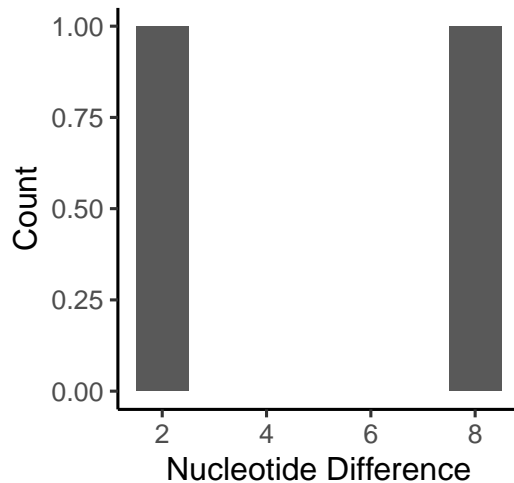
IGHV3-74*01_02

215 sequences assigned
114 (53%) exact matches, in which:
110 unique CDR3
6 unique J



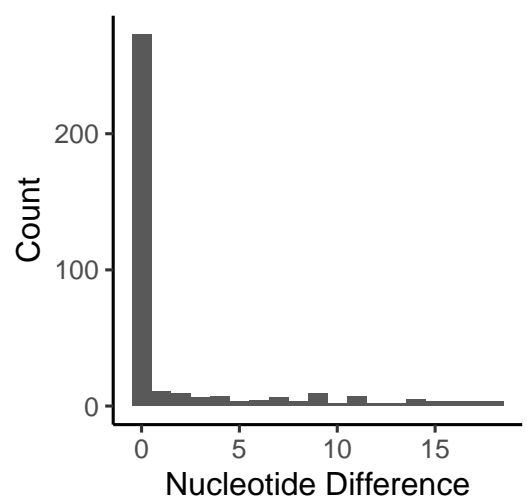
IGHV4-28*01_07

2 sequences assigned
No exact matches.



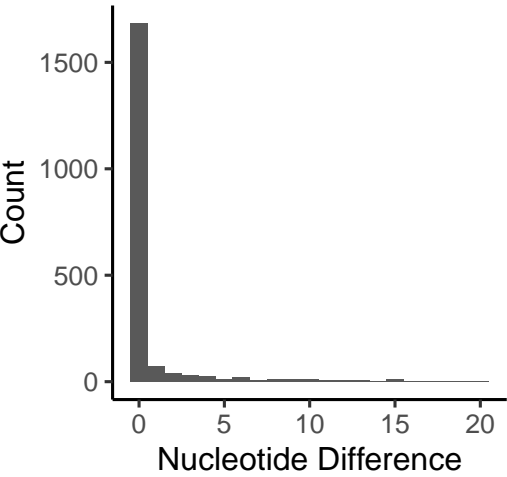
IGHV4-31*02

385 sequences assigned
273 (70.9%) exact matches, in which:
270 unique CDR3
6 unique J



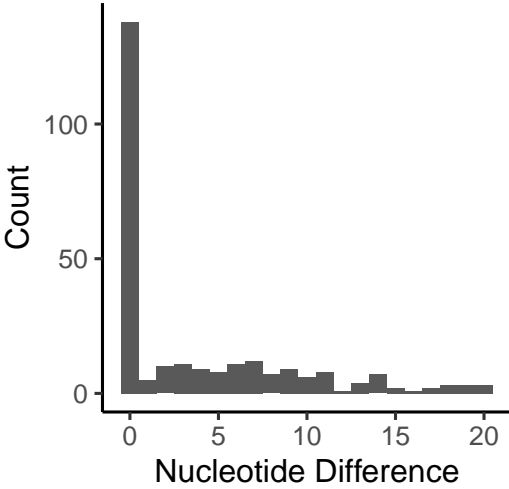
IGHV4-34*01_02

1991 sequences assigned
1683 (84.5%) exact matches, in which:
1633 unique CDR3
6 unique J



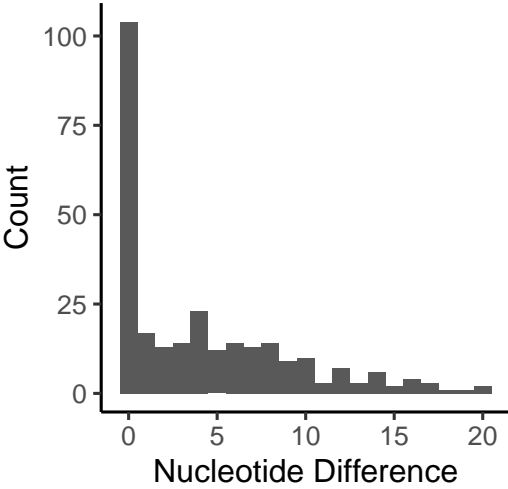
IGHV4-61*01

270 sequences assigned
138 (51.1%) exact matches, in which:
137 unique CDR3
6 unique J



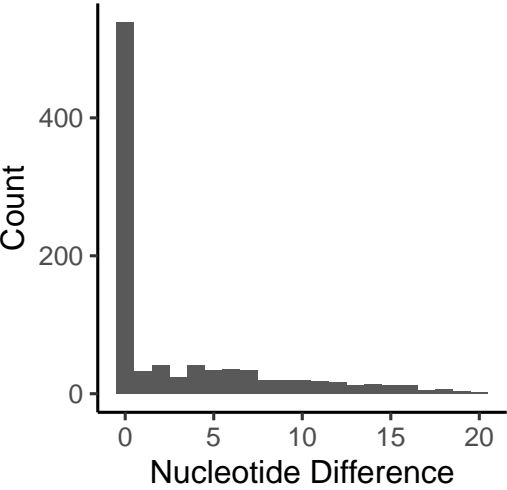
IGHV6-1*01_02

283 sequences assigned
104 (36.7%) exact matches, in which:
104 unique CDR3
5 unique J



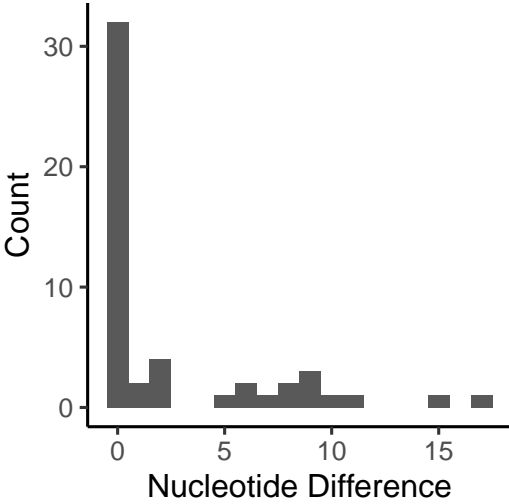
IGHV4-39*02_C258G

962 sequences assigned
539 (56%) exact matches, in which:
529 unique CDR3
6 unique J



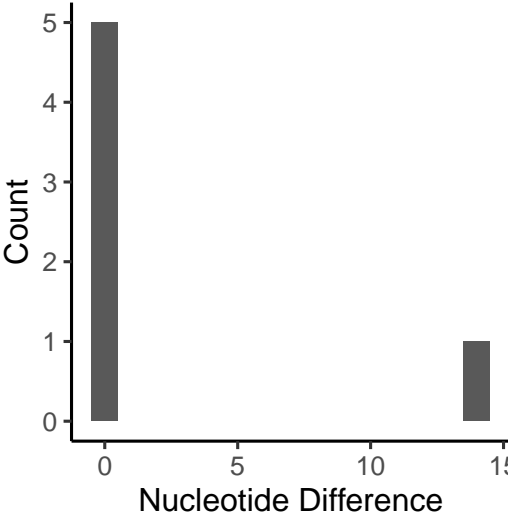
IGHV5-10-1*01_03

53 sequences assigned
32 (60.4%) exact matches, in which:
32 unique CDR3
5 unique J



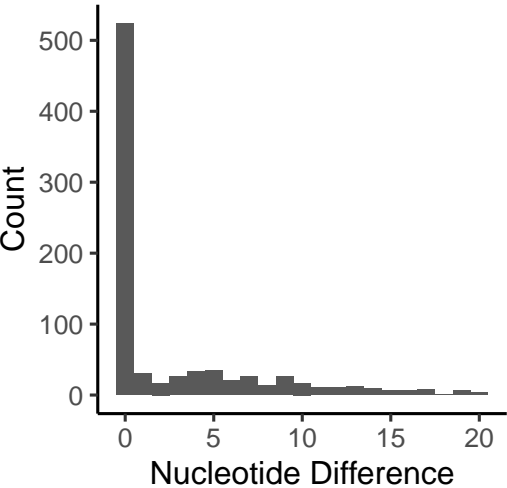
IGHV7-4-1*01

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



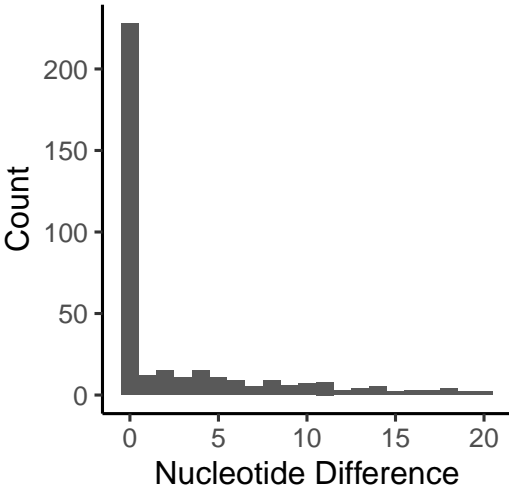
IGHV4-59*02_G88A

875 sequences assigned
524 (59.9%) exact matches, in which:
515 unique CDR3
6 unique J



IGHV5-51*07_A128G

368 sequences assigned
228 (62%) exact matches, in which:
228 unique CDR3
6 unique J





Warning – no inferred sequences found.