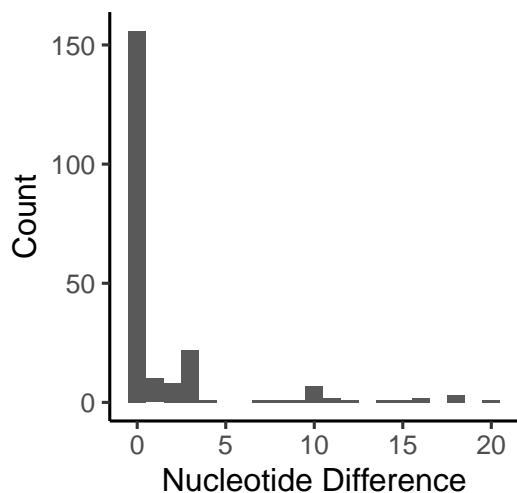


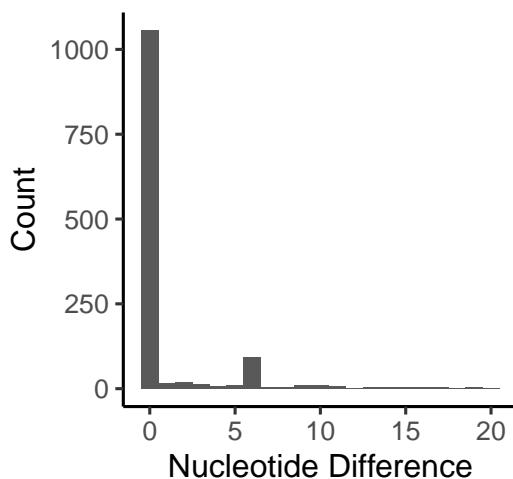
IGHV1-2*04

231 sequences assigned
156 (67.5%) exact matches, in which:
155 unique CDR3
5 unique J



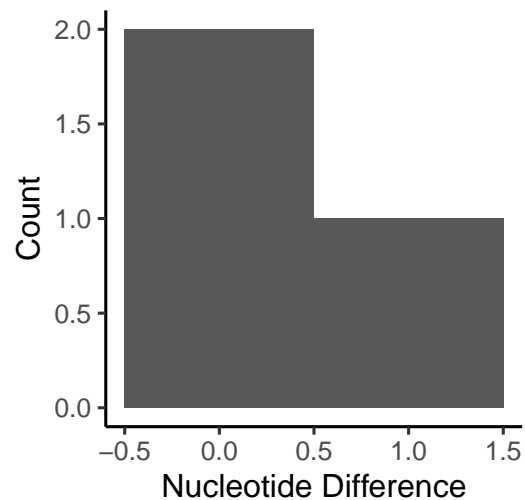
IGHV1-18*01

1427 sequences assigned
1056 (74%) exact matches, in which:
1048 unique CDR3
6 unique J



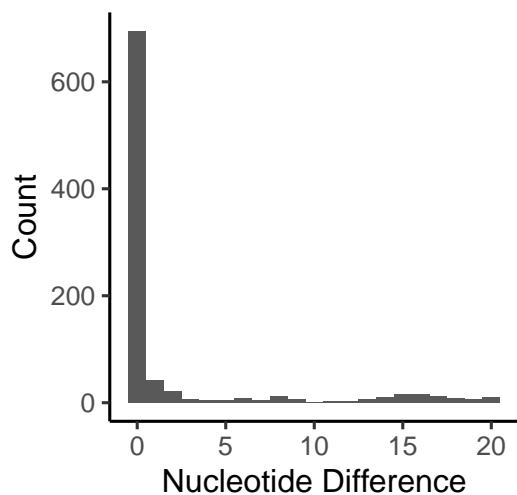
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



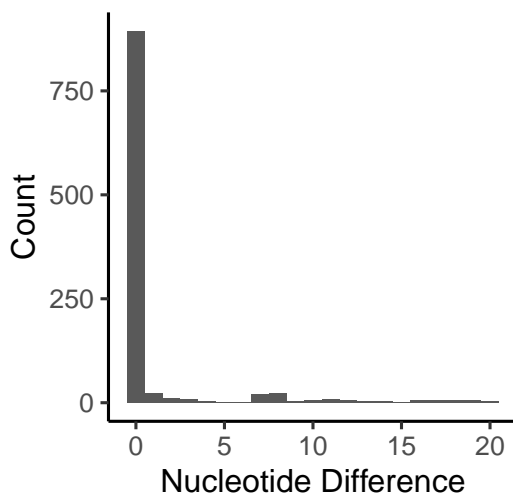
IGHV1-3*01_05

968 sequences assigned
695 (71.8%) exact matches, in which:
693 unique CDR3
6 unique J



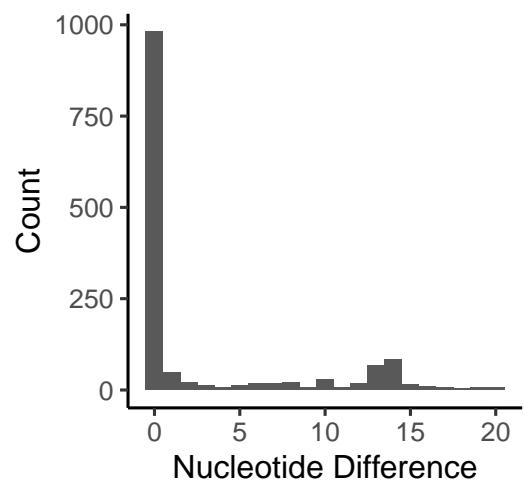
IGHV1-18*04

1155 sequences assigned
894 (77.4%) exact matches, in which:
891 unique CDR3
6 unique J



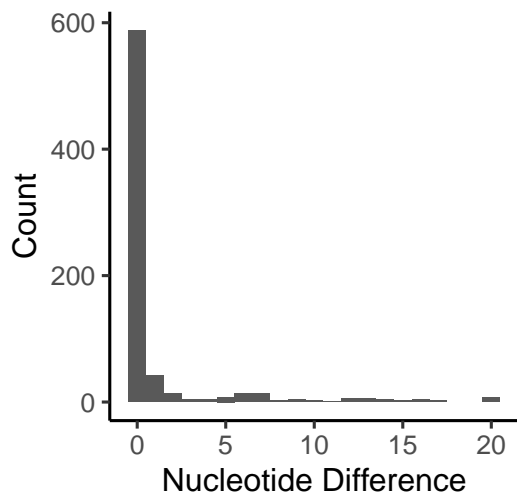
IGHV1-46*01

1443 sequences assigned
981 (68%) exact matches, in which:
973 unique CDR3
6 unique J



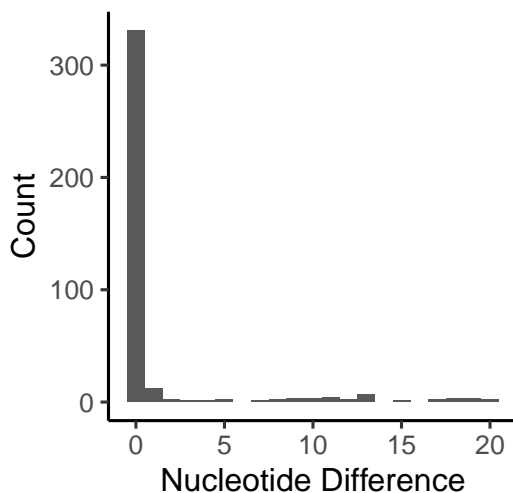
IGHV1-8*01

744 sequences assigned
588 (79%) exact matches, in which:
580 unique CDR3
6 unique J



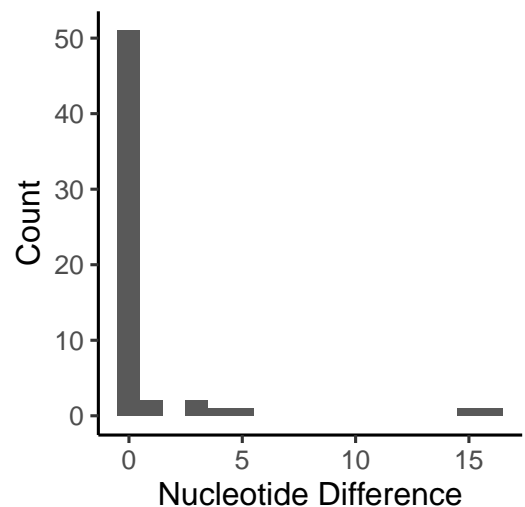
IGHV1-24*01

407 sequences assigned
331 (81.3%) exact matches, in which:
331 unique CDR3
6 unique J



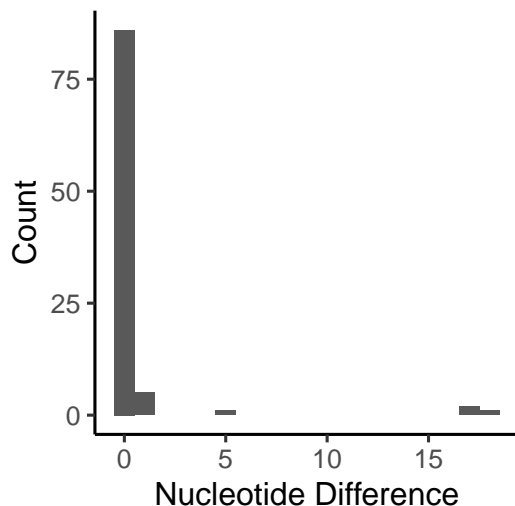
IGHV1-58*02

64 sequences assigned
51 (79.7%) exact matches, in which:
49 unique CDR3
5 unique J



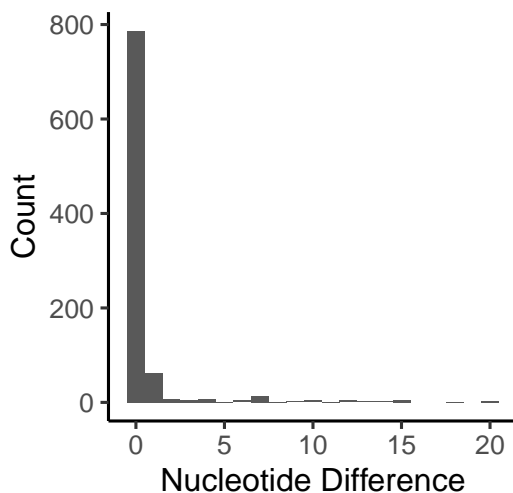
IGHV1-58*01_03

97 sequences assigned
86 (88.7%) exact matches, in which:
85 unique CDR3
5 unique J



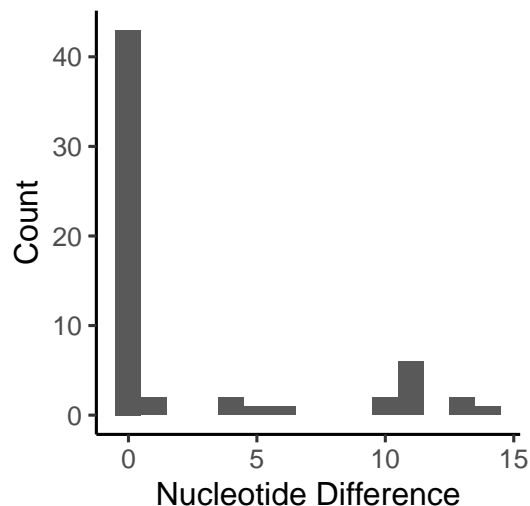
IGHV1-69*04_09

972 sequences assigned
787 (81%) exact matches, in which:
785 unique CDR3
6 unique J



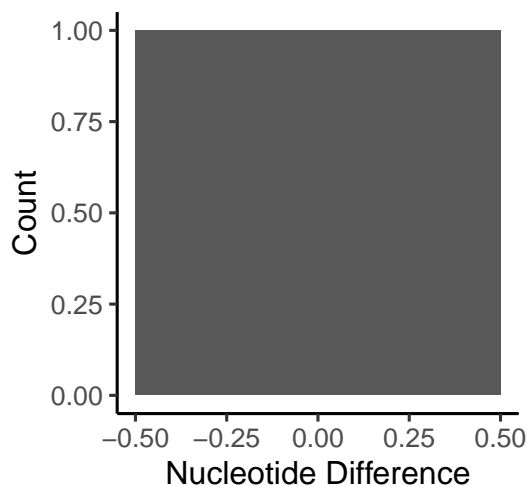
IGHV2-26*01

61 sequences assigned
43 (70.5%) exact matches, in which:
42 unique CDR3
5 unique J



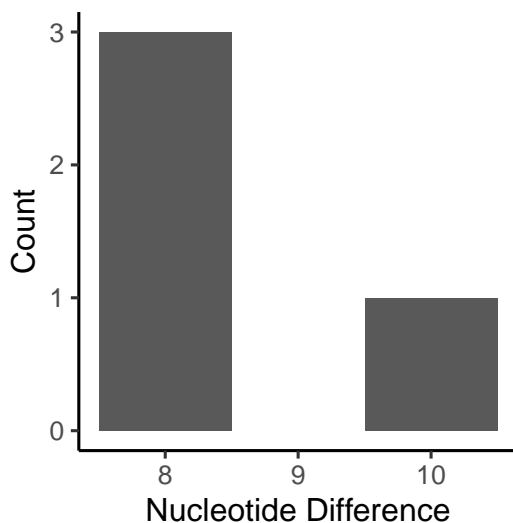
IGHV1-68*01

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



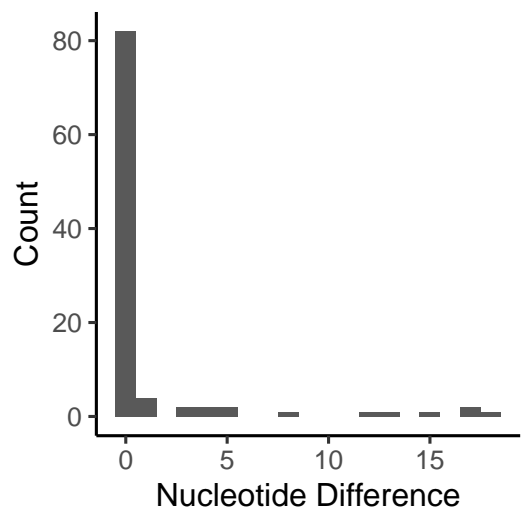
IGHV1-NL1*01

4 sequences assigned
No exact matches.



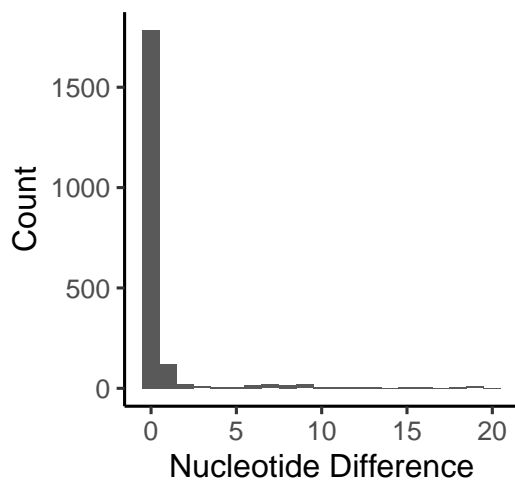
IGHV2-70*01

104 sequences assigned
82 (78.8%) exact matches, in which:
82 unique CDR3
4 unique J



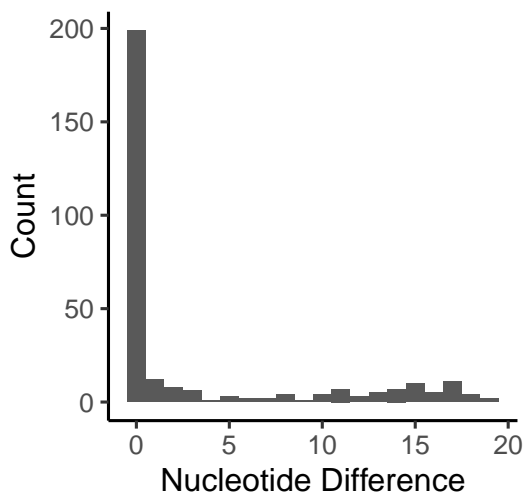
IGHV1-69*01_12_13

2164 sequences assigned
1785 (82.5%) exact matches, in which:
1777 unique CDR3
6 unique J



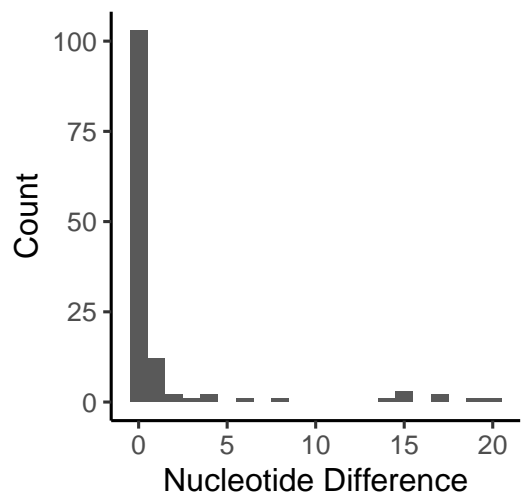
IGHV2-5*02

323 sequences assigned
199 (61.6%) exact matches, in which:
195 unique CDR3
6 unique J



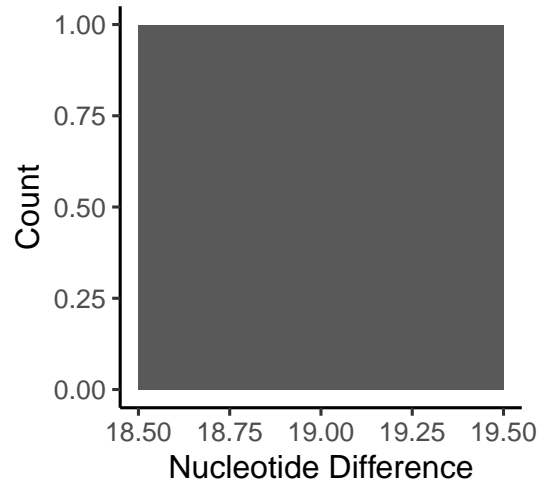
IGHV2-70*11_15

138 sequences assigned
103 (74.6%) exact matches, in which:
102 unique CDR3
5 unique J



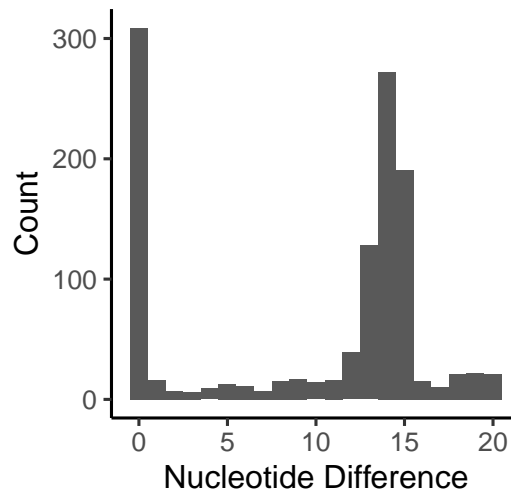
IGHV2-70D*04

8 sequences assigned
No exact matches.



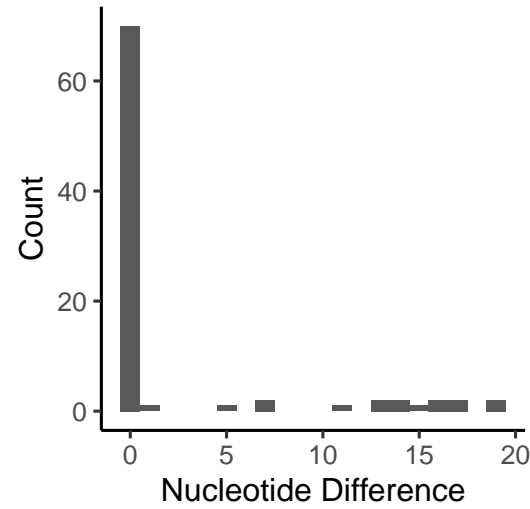
IGHV3-9*01

1286 sequences assigned
309 (24%) exact matches, in which:
257 unique CDR3
6 unique J



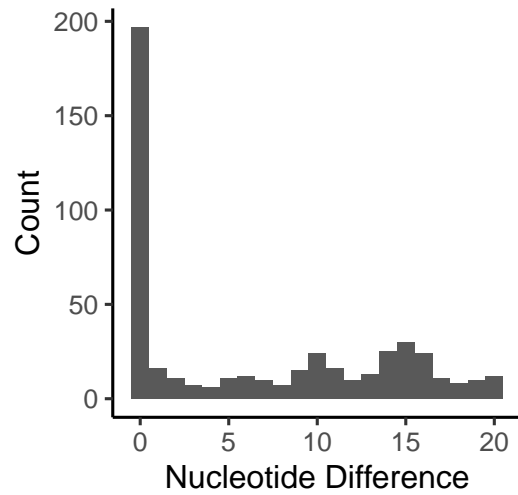
IGHV3-13*01

108 sequences assigned
70 (64.8%) exact matches, in which:
58 unique CDR3
5 unique J



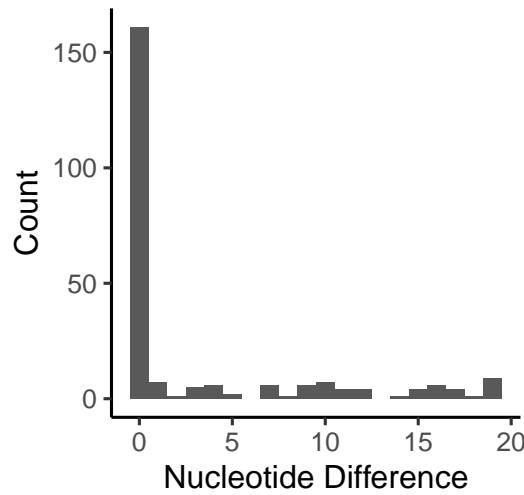
IGHV3-7*01

543 sequences assigned
197 (36.3%) exact matches, in which:
150 unique CDR3
6 unique J



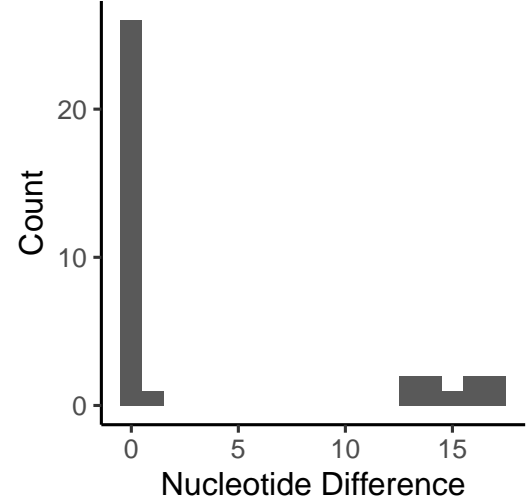
IGHV3-11*01

284 sequences assigned
161 (56.7%) exact matches, in which:
130 unique CDR3
6 unique J



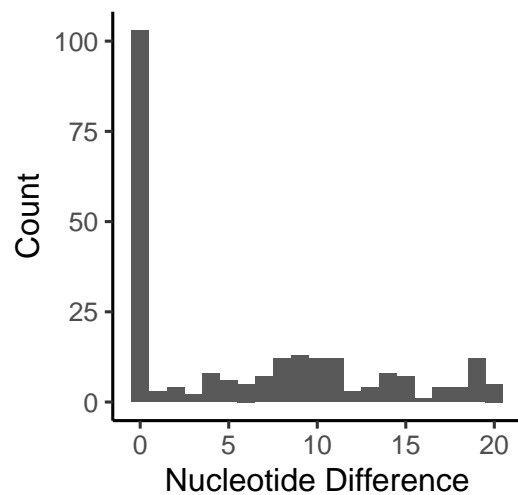
IGHV3-13*05

37 sequences assigned
26 (70.3%) exact matches, in which:
21 unique CDR3
4 unique J



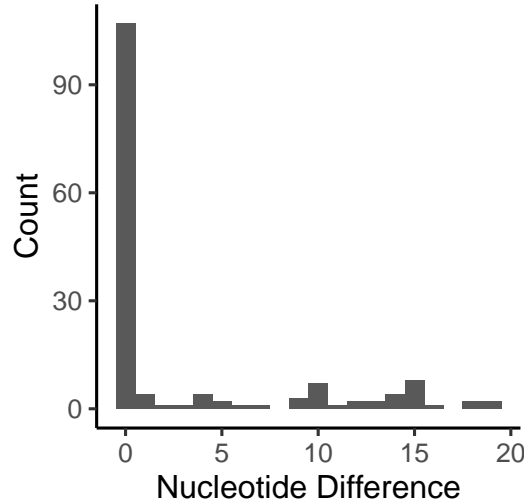
IGHV3-7*03

283 sequences assigned
103 (36.4%) exact matches, in which:
83 unique CDR3
5 unique J



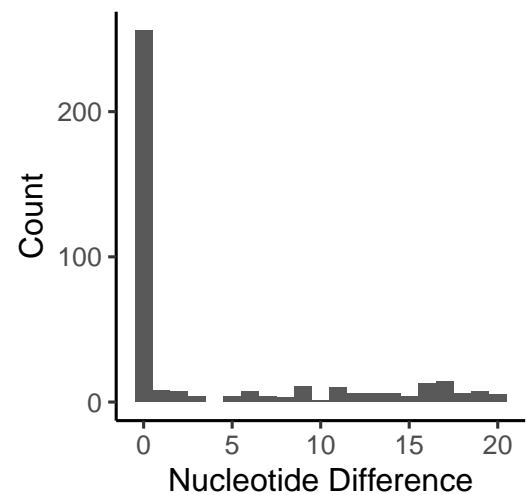
IGHV3-11*06

177 sequences assigned
107 (60.5%) exact matches, in which:
96 unique CDR3
5 unique J



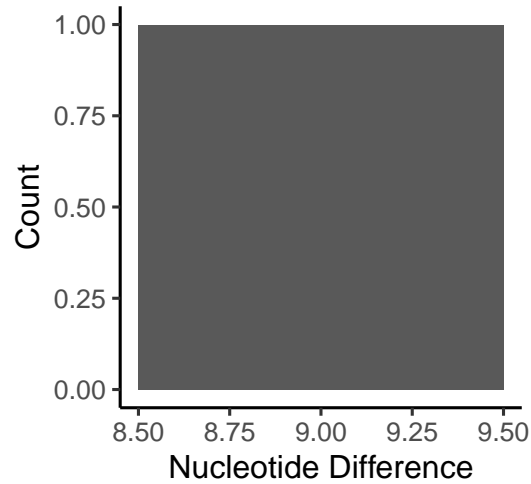
IGHV3-15*01_02

465 sequences assigned
256 (55.1%) exact matches, in which:
214 unique CDR3
6 unique J



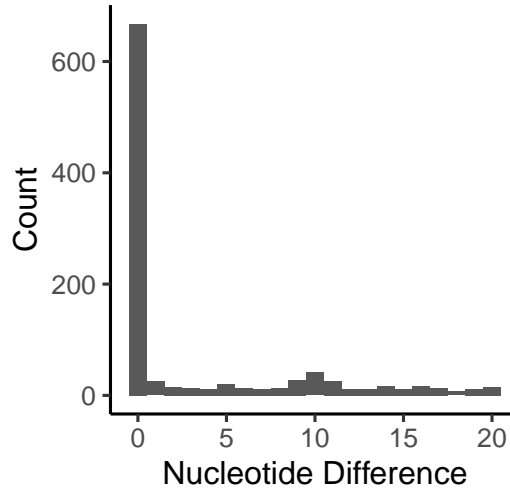
IGHV3-19*01

1 sequences assigned
No exact matches.



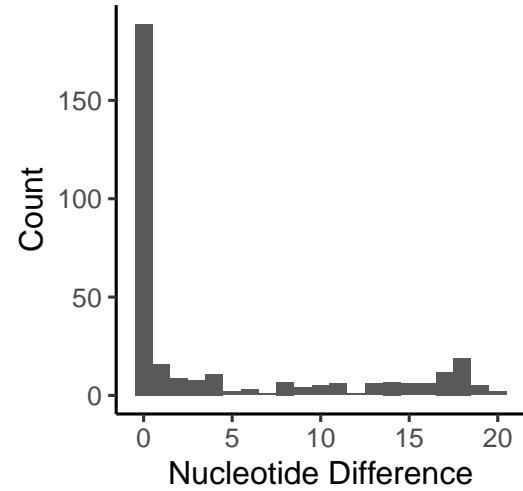
IGHV3-21*01_02

1098 sequences assigned
668 (60.8%) exact matches, in which:
529 unique CDR3
6 unique J



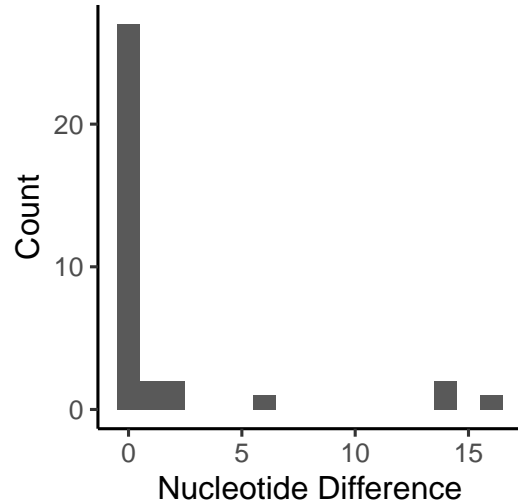
IGHV3-33*06

369 sequences assigned
189 (51.2%) exact matches, in which:
150 unique CDR3
6 unique J



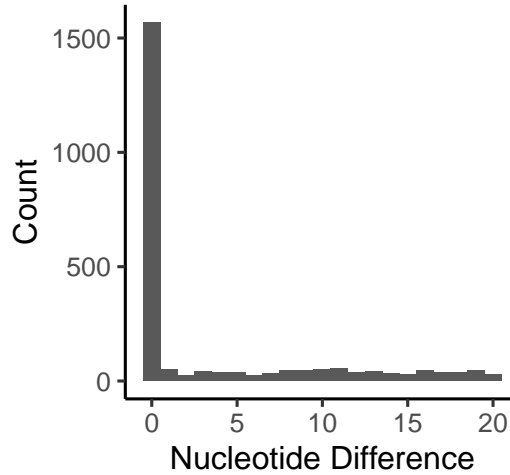
IGHV3-20*01_02

42 sequences assigned
27 (64.3%) exact matches, in which:
21 unique CDR3
5 unique J



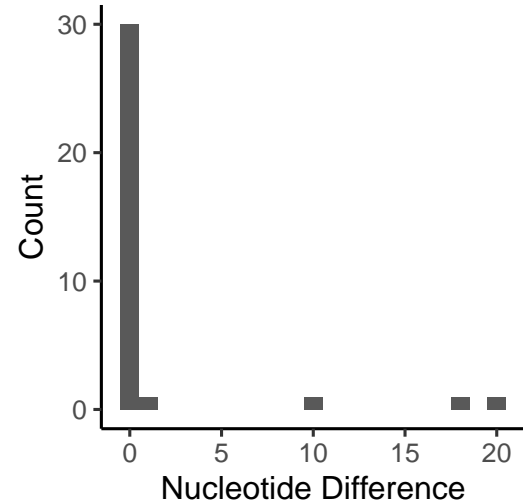
IGHV3-23*01_04

2792 sequences assigned
1567 (56.1%) exact matches, in which:
1233 unique CDR3
6 unique J



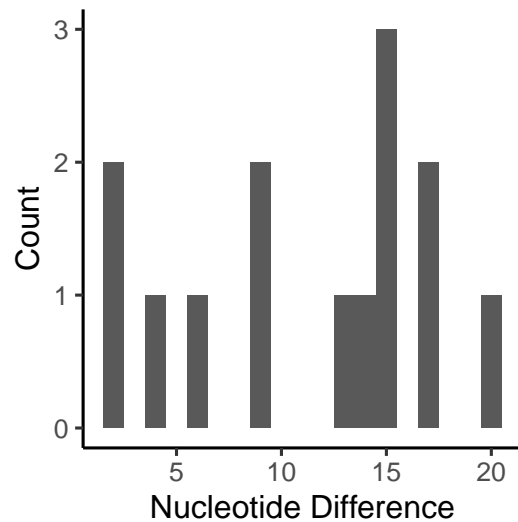
IGHV3-43*01

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



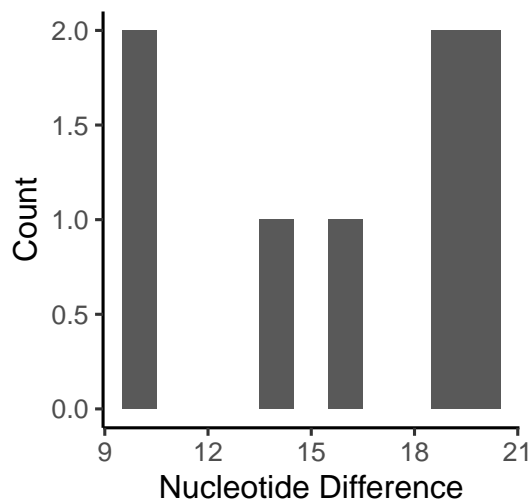
IGHV3-20*03_04

16 sequences assigned
No exact matches.



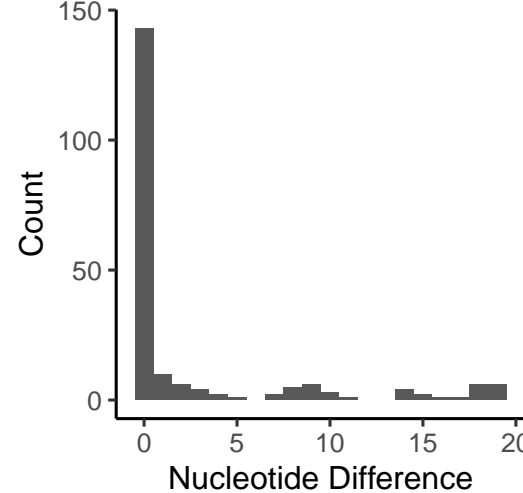
IGHV3-30-5*01

26 sequences assigned
No exact matches.



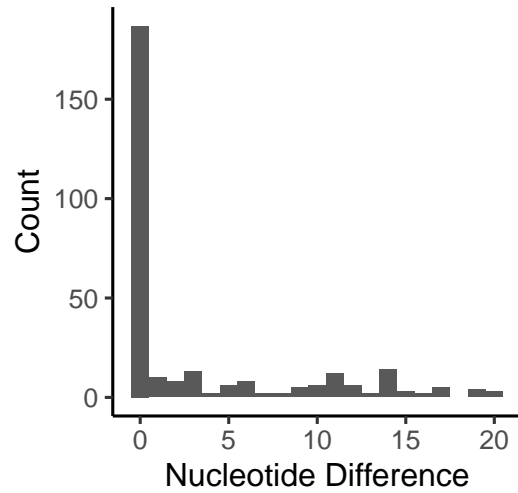
IGHV3-43*02

231 sequences assigned
143 (61.9%) exact matches, in which:
120 unique CDR3
6 unique J



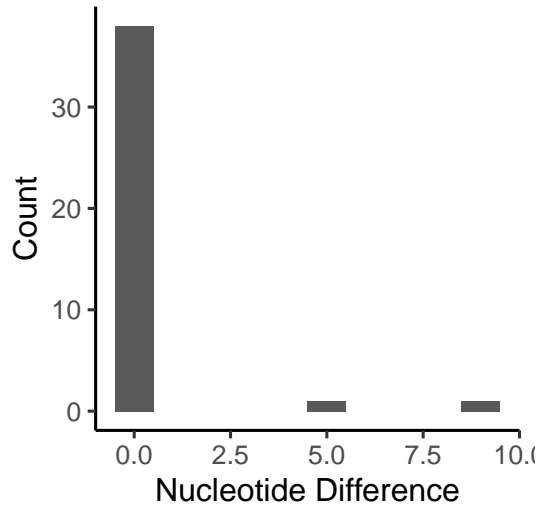
IGHV3-48*02

346 sequences assigned
187 (54%) exact matches, in which:
147 unique CDR3
5 unique J



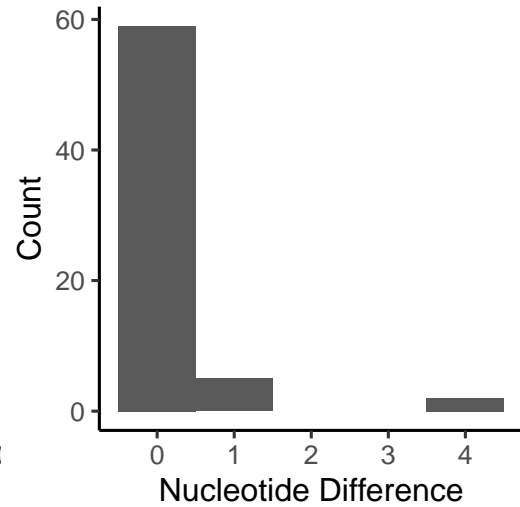
IGHV3-49*03_05

49 sequences assigned
38 (77.6%) exact matches, in which:
31 unique CDR3
6 unique J



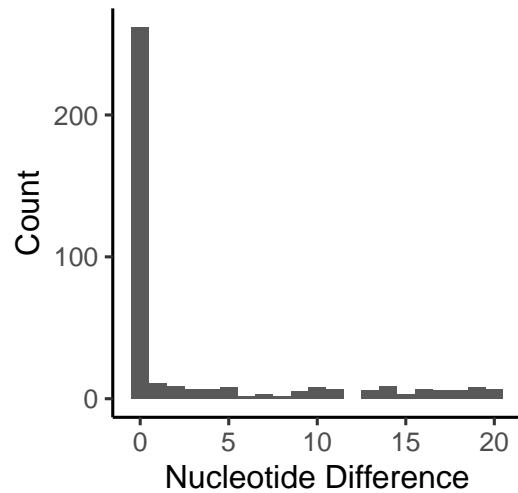
IGHV3-53*01_02_G241C

71 sequences assigned
59 (83.1%) exact matches, in which:
46 unique CDR3
5 unique J



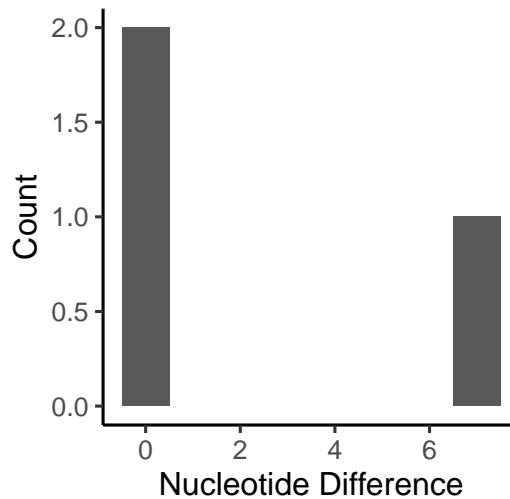
IGHV3-48*03

428 sequences assigned
262 (61.2%) exact matches, in which:
212 unique CDR3
6 unique J



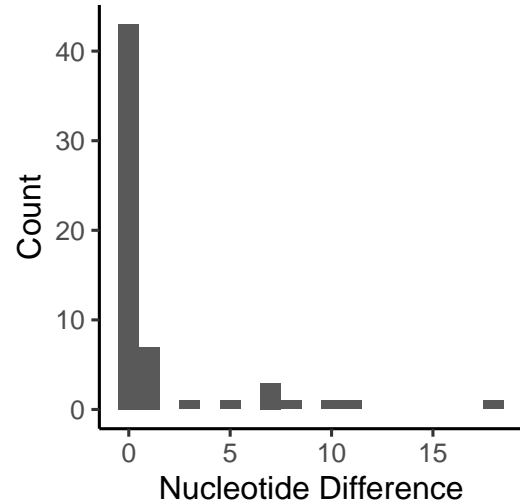
IGHV3-52*01_03

3 sequences assigned
2 (66.7%) exact matches, in which:
1 unique CDR3
1 unique J



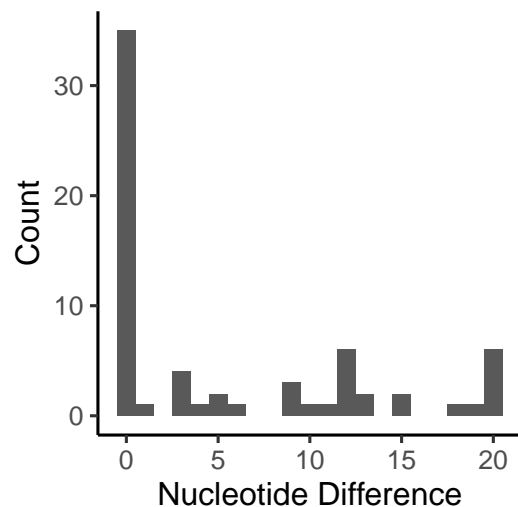
IGHV3-64*01

62 sequences assigned
43 (69.4%) exact matches, in which:
34 unique CDR3
6 unique J



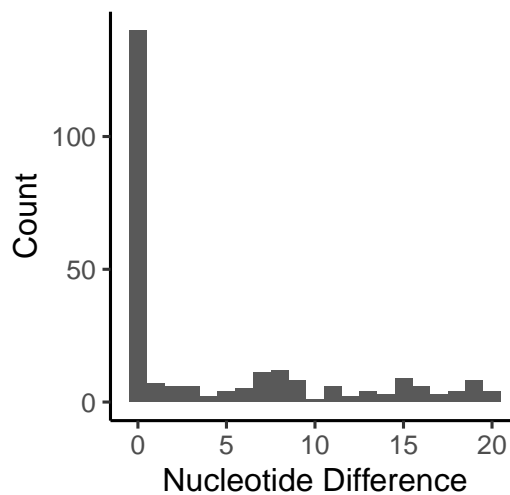
IGHV3-49*04

104 sequences assigned
35 (33.7%) exact matches, in which:
29 unique CDR3
4 unique J



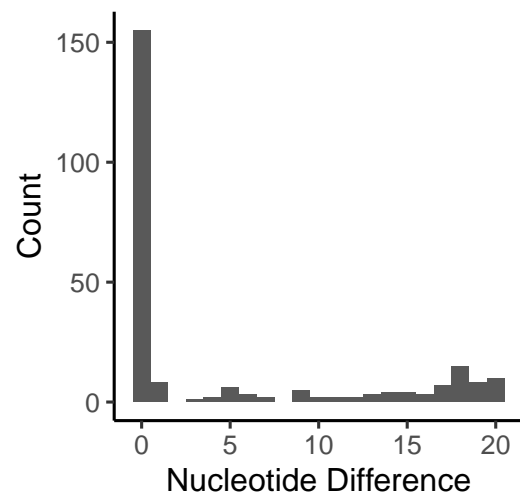
IGHV3-53*01_02

298 sequences assigned
140 (47%) exact matches, in which:
118 unique CDR3
5 unique J



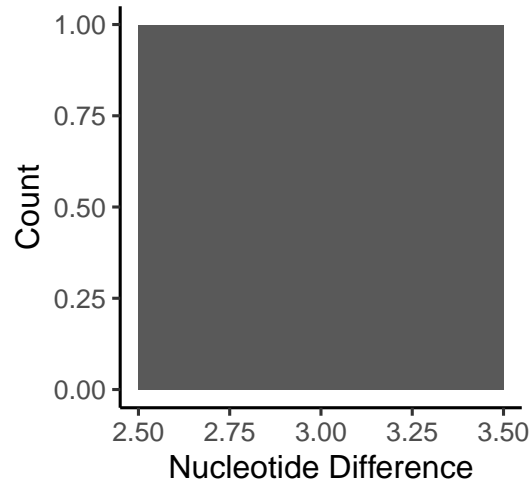
IGHV3-66*01

304 sequences assigned
155 (51%) exact matches, in which:
129 unique CDR3
6 unique J



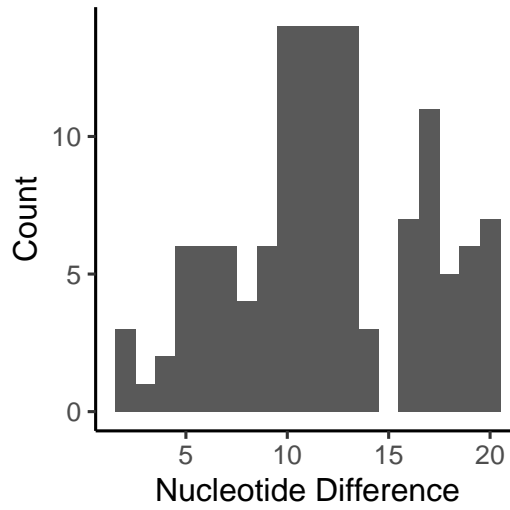
IGHV3-69-1*01

3 sequences assigned
No exact matches.



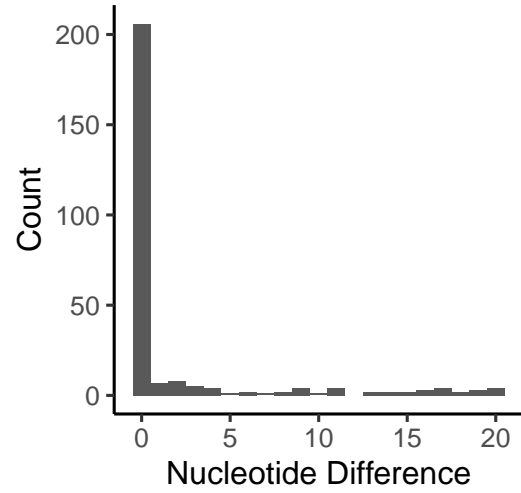
IGHV3-74*03

228 sequences assigned
No exact matches.



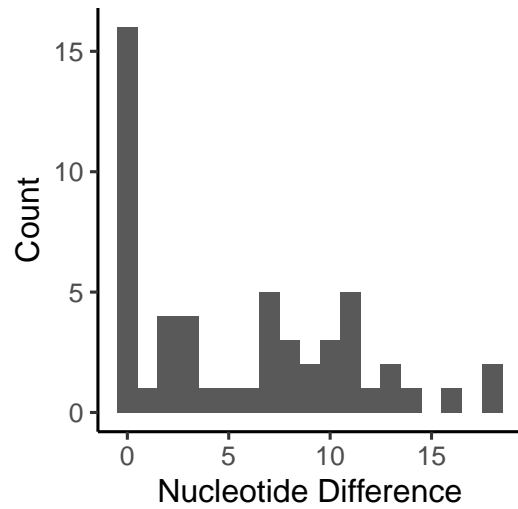
IGHV4-4*02_03

296 sequences assigned
206 (69.6%) exact matches, in which:
205 unique CDR3
6 unique J



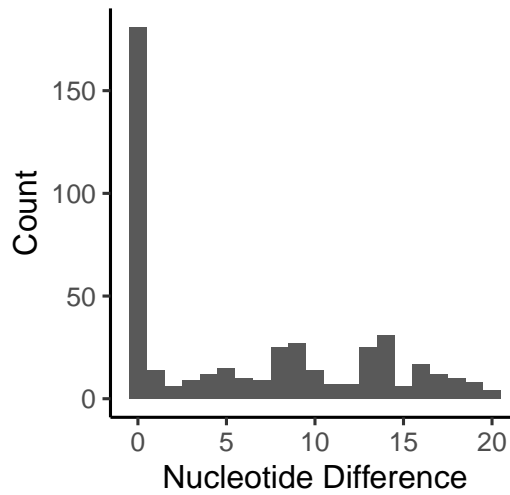
IGHV3-72*01

80 sequences assigned
16 (20%) exact matches, in which:
12 unique CDR3
3 unique J



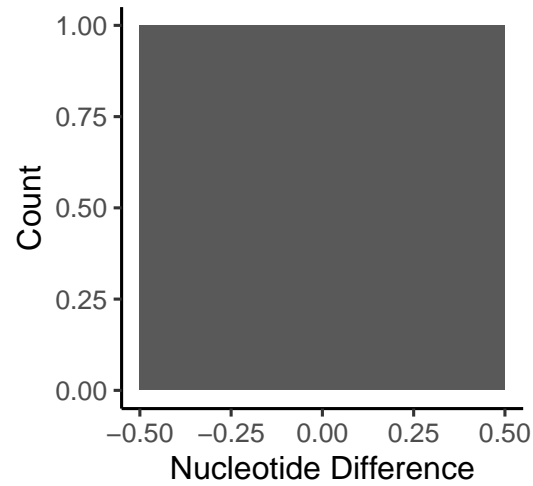
IGHV3-74*01_02

490 sequences assigned
181 (36.9%) exact matches, in which:
138 unique CDR3
6 unique J



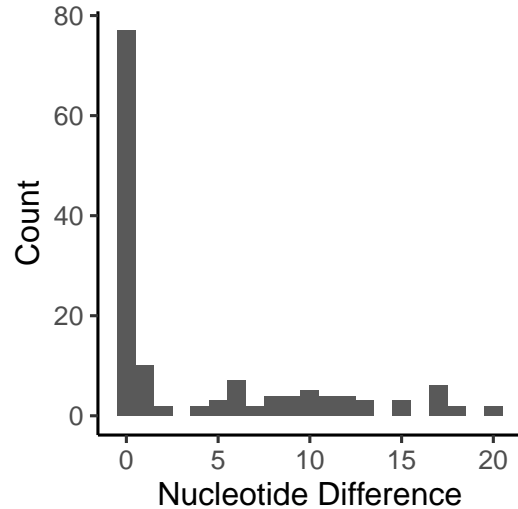
IGHV4-28*01_07

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



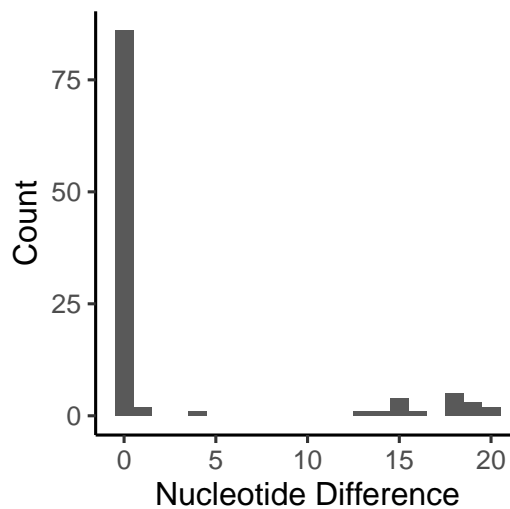
IGHV3-73*01_02

151 sequences assigned
77 (51%) exact matches, in which:
64 unique CDR3
6 unique J



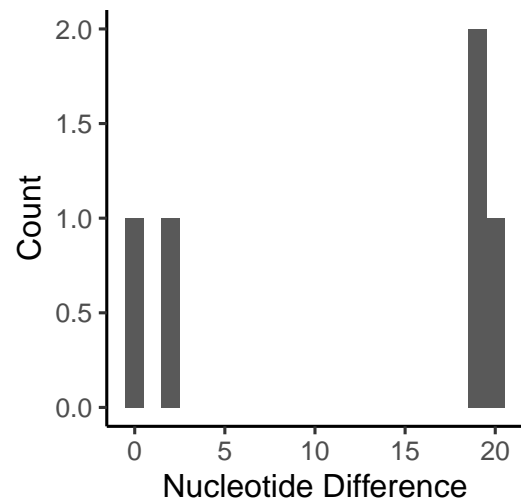
IGHV3-64D*06

120 sequences assigned
86 (71.7%) exact matches, in which:
68 unique CDR3
6 unique J



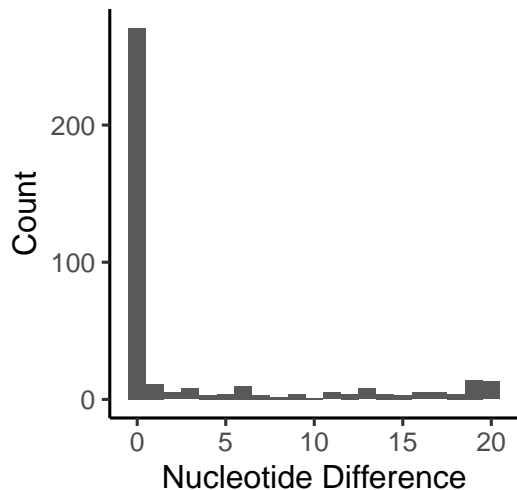
IGHV4-28*02_05

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



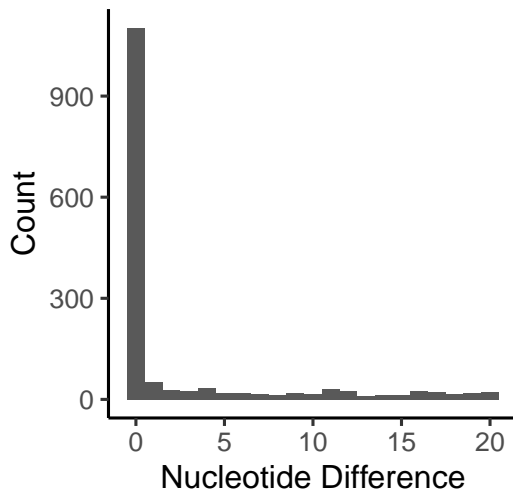
IGHV4-31*02

467 sequences assigned
271 (58%) exact matches, in which:
271 unique CDR3
6 unique J



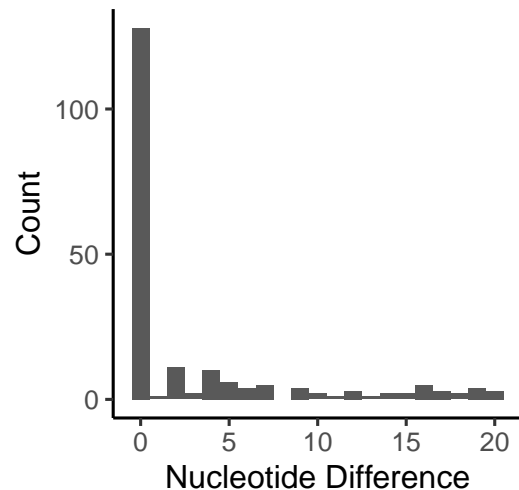
IGHV4-39*02_C258G

1696 sequences assigned
1103 (65%) exact matches, in which:
1080 unique CDR3
6 unique J



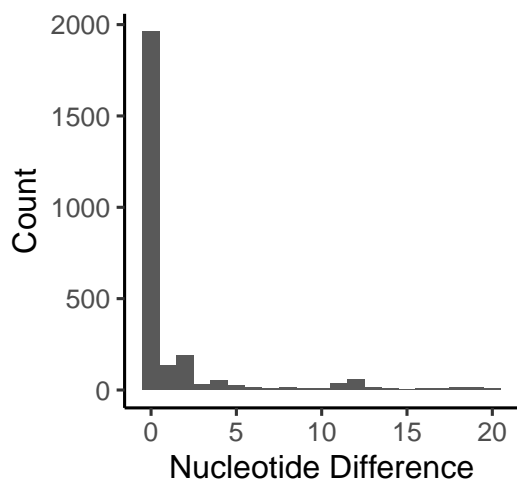
IGHV4-61*01

243 sequences assigned
128 (52.7%) exact matches, in which:
128 unique CDR3
5 unique J



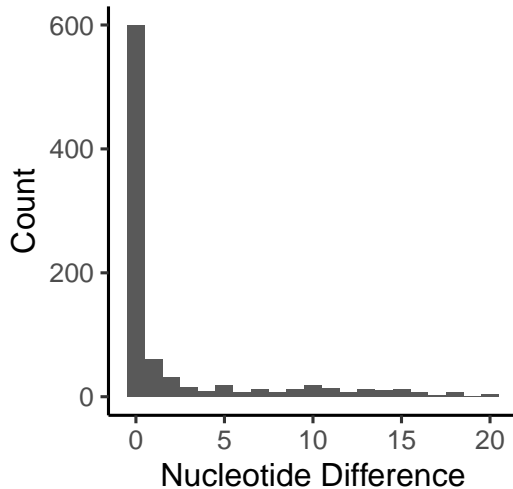
IGHV4-34*01_02

2782 sequences assigned
1961 (70.5%) exact matches, in which:
1924 unique CDR3
6 unique J



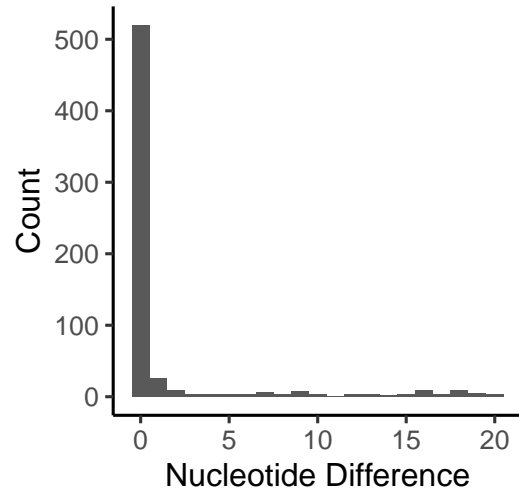
IGHV4-59*08

944 sequences assigned
600 (63.6%) exact matches, in which:
595 unique CDR3
6 unique J



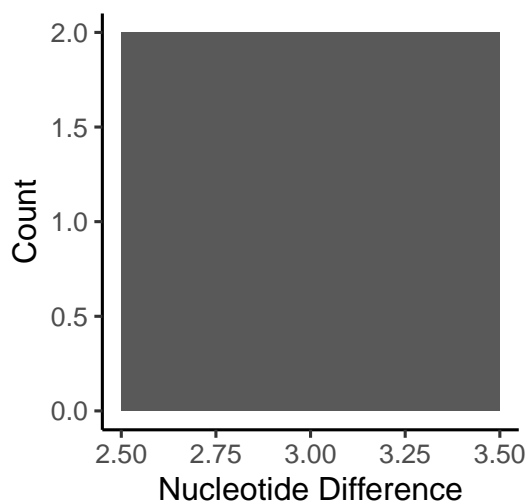
IGHV5-10-1*01_03

677 sequences assigned
520 (76.8%) exact matches, in which:
454 unique CDR3
6 unique J



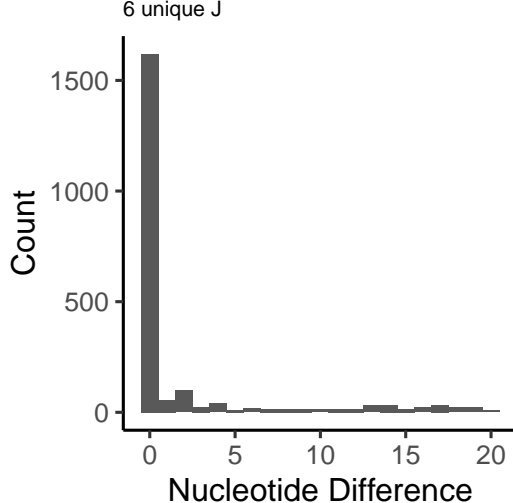
IGHV4-38-2*02

2 sequences assigned
No exact matches.



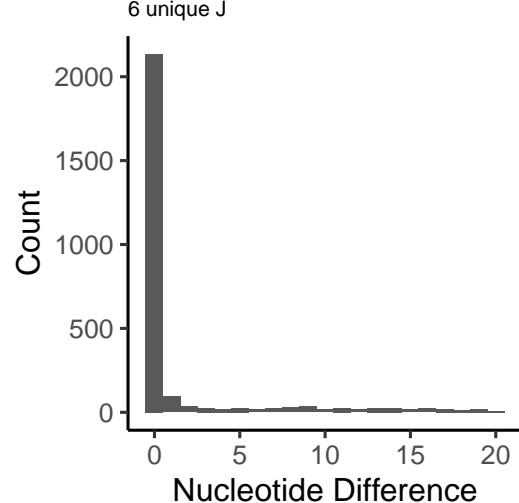
IGHV4-59*02_G88A

2358 sequences assigned
1619 (68.7%) exact matches, in which:
1613 unique CDR3
6 unique J



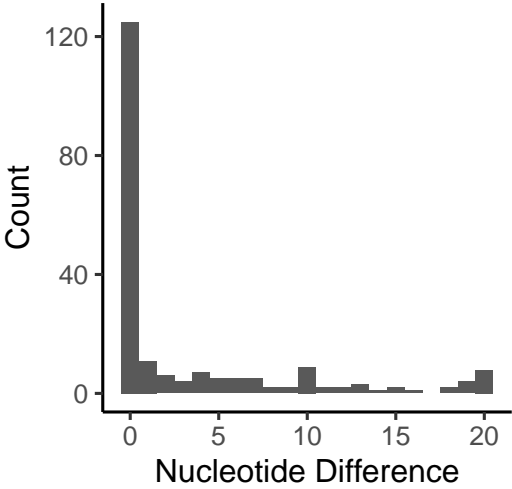
IGHV5-51*07_A128G

2788 sequences assigned
2135 (76.6%) exact matches, in which:
1712 unique CDR3
6 unique J



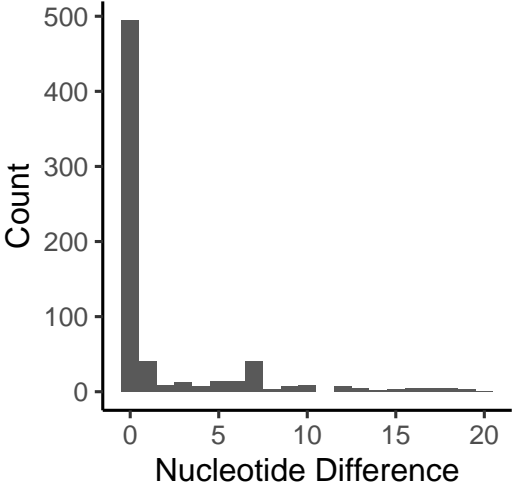
IGHV6-1*01_02

239 sequences assigned
125 (52.3%) exact matches, in which:
124 unique CDR3
6 unique J



IGHV7-4-1*02

721 sequences assigned
495 (68.7%) exact matches, in which:
492 unique CDR3
6 unique J





Warning – no inferred sequences found.