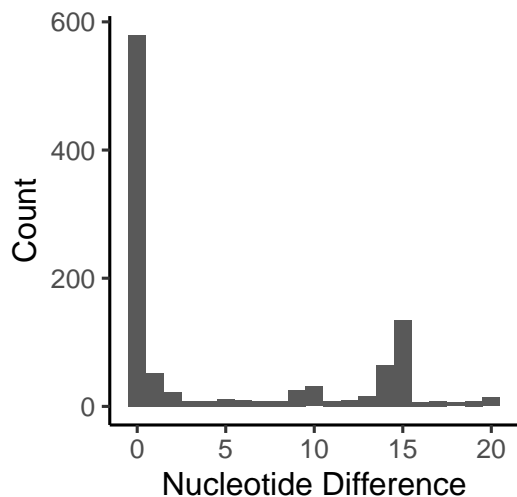


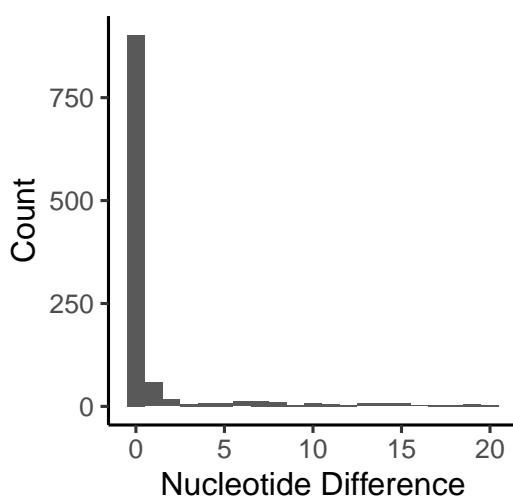
IGHV1-2*02

1204 sequences assigned
580 (48.2%) exact matches, in which:
572 unique CDR3
6 unique J



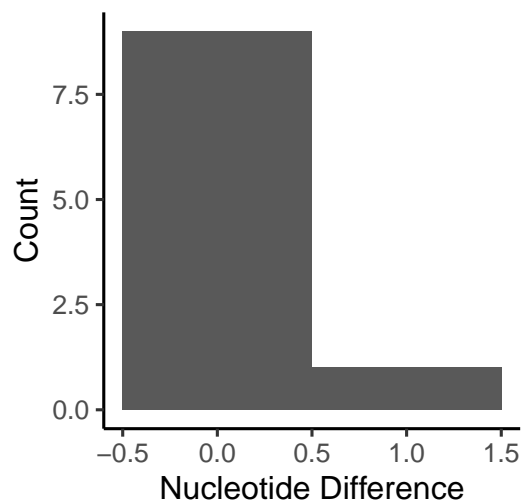
IGHV1-8*01

1184 sequences assigned
903 (76.3%) exact matches, in which:
885 unique CDR3
6 unique J



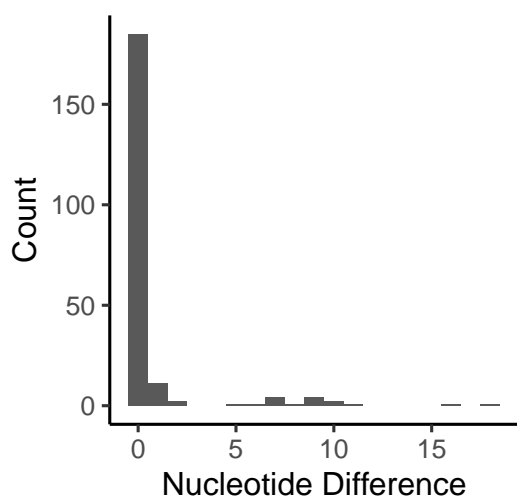
IGHV1-45*02

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
3 unique J



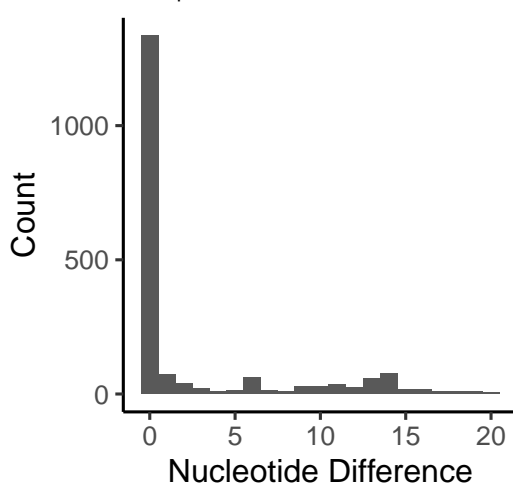
IGHV1-2*04

216 sequences assigned
185 (85.6%) exact matches, in which:
182 unique CDR3
4 unique J



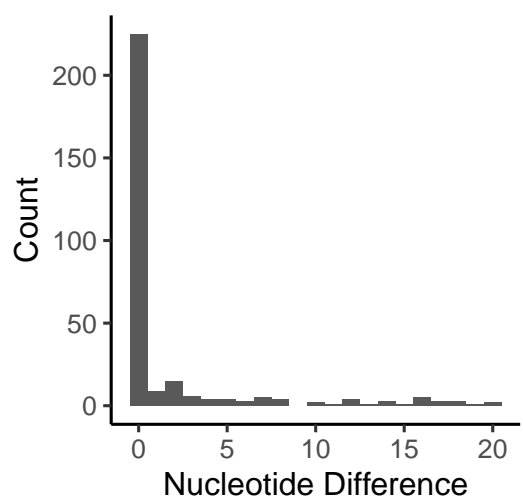
IGHV1-18*01

2158 sequences assigned
1335 (61.9%) exact matches, in which:
1311 unique CDR3
6 unique J



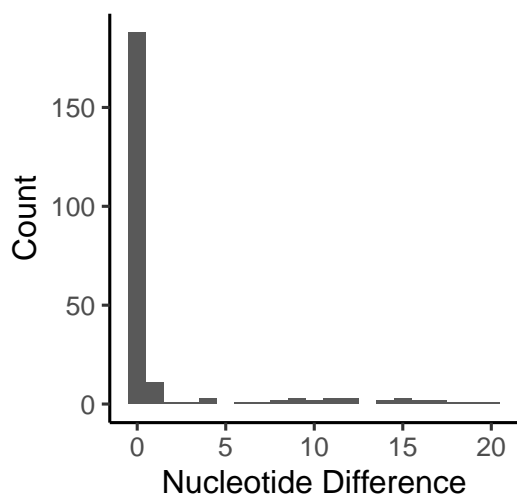
IGHV1-46*01

468 sequences assigned
225 (48.1%) exact matches, in which:
222 unique CDR3
6 unique J



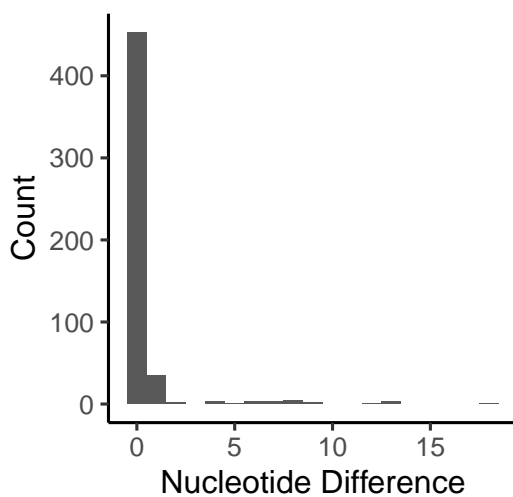
IGHV1-3*01_05

246 sequences assigned
188 (76.4%) exact matches, in which:
187 unique CDR3
6 unique J



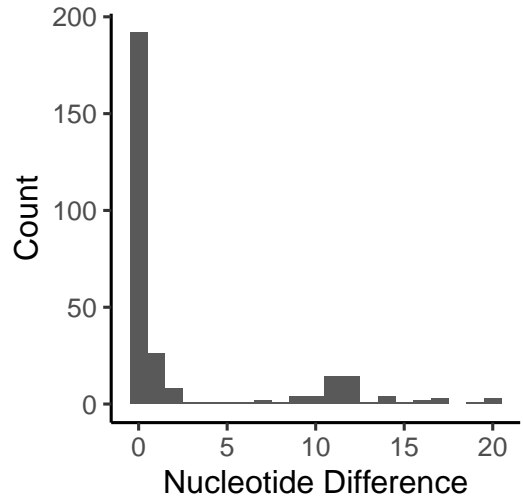
IGHV1-24*01

520 sequences assigned
453 (87.1%) exact matches, in which:
447 unique CDR3
6 unique J



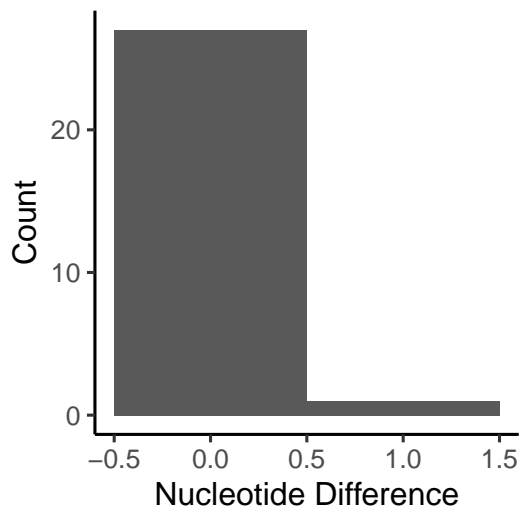
IGHV1-46*03

294 sequences assigned
192 (65.3%) exact matches, in which:
191 unique CDR3
6 unique J



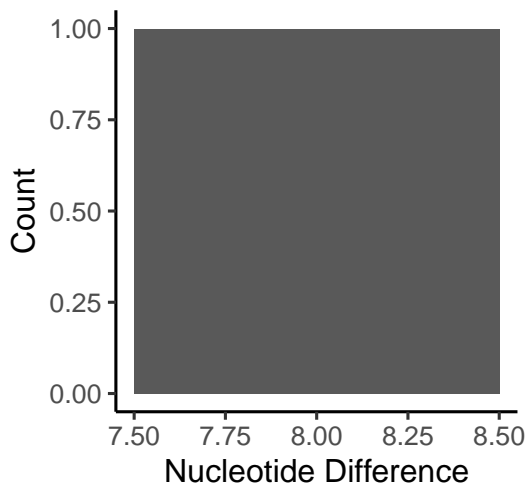
IGHV1-58*02

28 sequences assigned
27 (96.4%) exact matches, in which:
27 unique CDR3
5 unique J



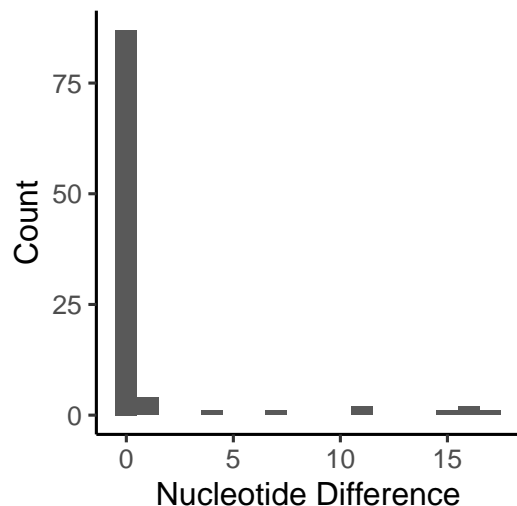
IGHV1-NL1*01

1 sequences assigned
No exact matches.



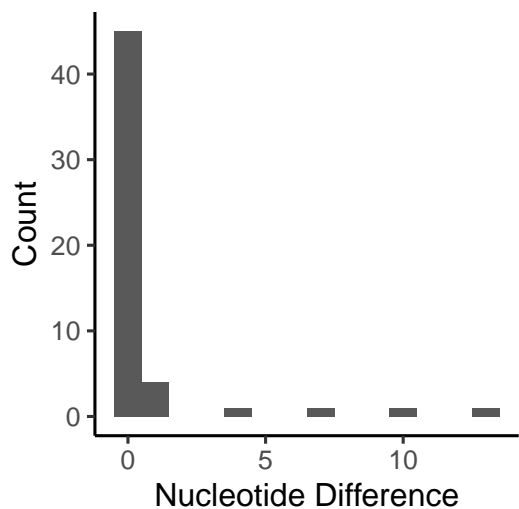
IGHV2-26*01

99 sequences assigned
87 (87.9%) exact matches, in which:
82 unique CDR3
5 unique J



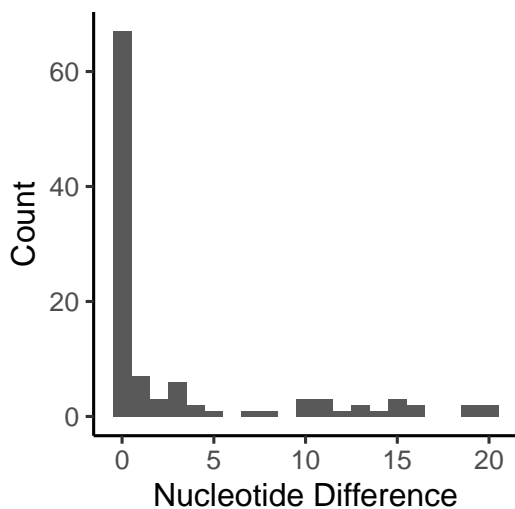
IGHV1-58*01_03

56 sequences assigned
45 (80.4%) exact matches, in which:
45 unique CDR3
4 unique J



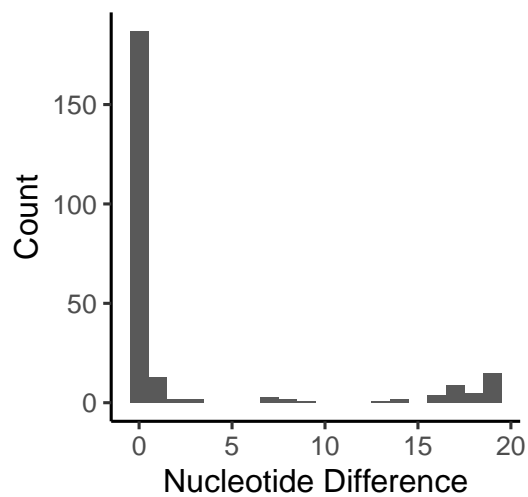
IGHV2-5*01

114 sequences assigned
67 (58.8%) exact matches, in which:
66 unique CDR3
5 unique J



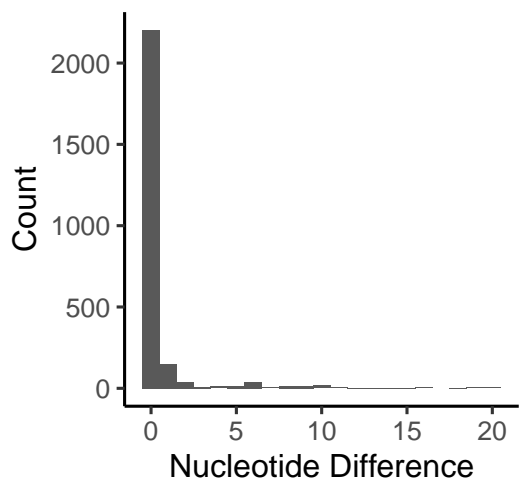
IGHV2-70*01

263 sequences assigned
187 (71.1%) exact matches, in which:
182 unique CDR3
5 unique J



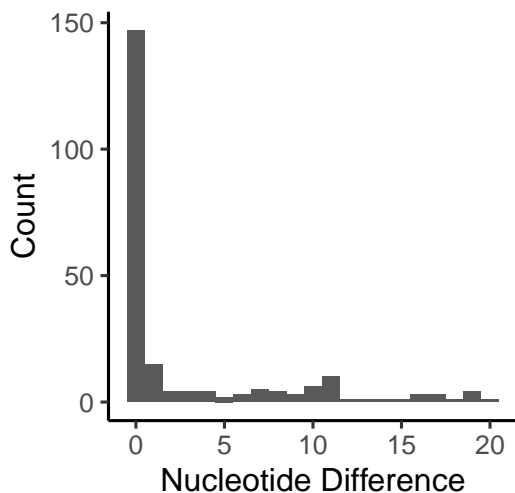
IGHV1-69*01_12_13

2648 sequences assigned
2203 (83.2%) exact matches, in which:
2178 unique CDR3
6 unique J



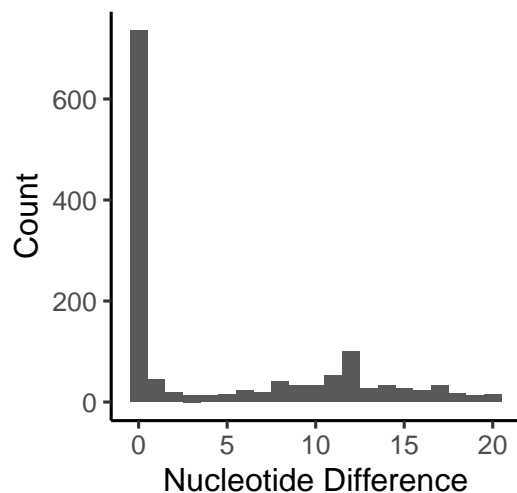
IGHV2-5*02

233 sequences assigned
147 (63.1%) exact matches, in which:
144 unique CDR3
5 unique J



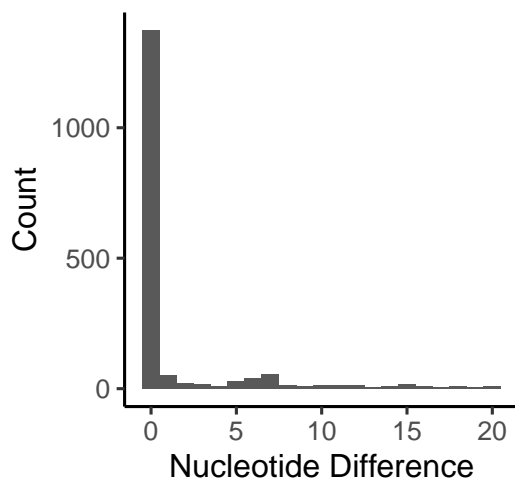
IGHV3-7*01

1628 sequences assigned
736 (45.2%) exact matches, in which:
468 unique CDR3
6 unique J



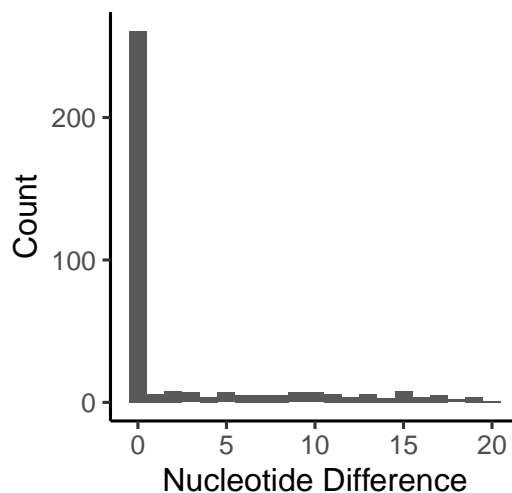
IGHV3-9*01

1867 sequences assigned
1373 (73.5%) exact matches, in which:
860 unique CDR3
6 unique J



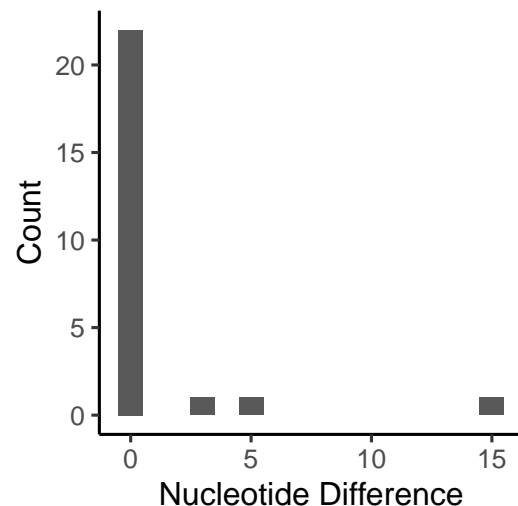
IGHV3-15*07

494 sequences assigned
261 (52.8%) exact matches, in which:
191 unique CDR3
4 unique J



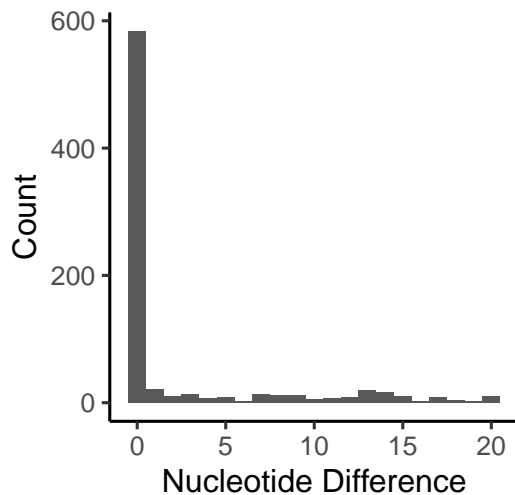
IGHV3-20*03_04

29 sequences assigned
22 (75.9%) exact matches, in which:
14 unique CDR3
4 unique J



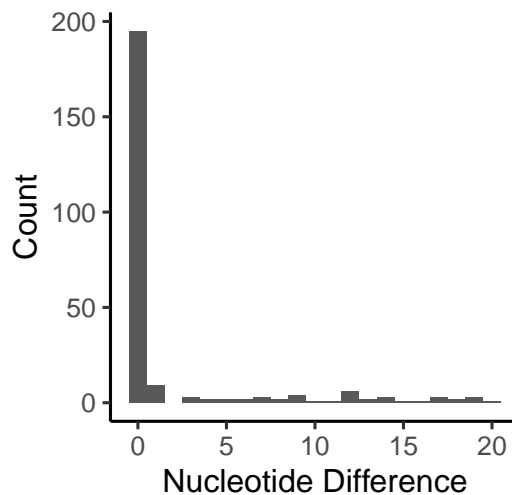
IGHV3-11*01

836 sequences assigned
584 (69.9%) exact matches, in which:
384 unique CDR3
6 unique J



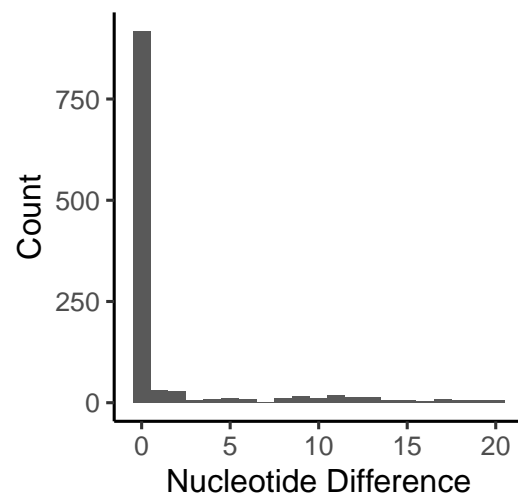
IGHV3-15*01_02

262 sequences assigned
195 (74.4%) exact matches, in which:
145 unique CDR3
5 unique J



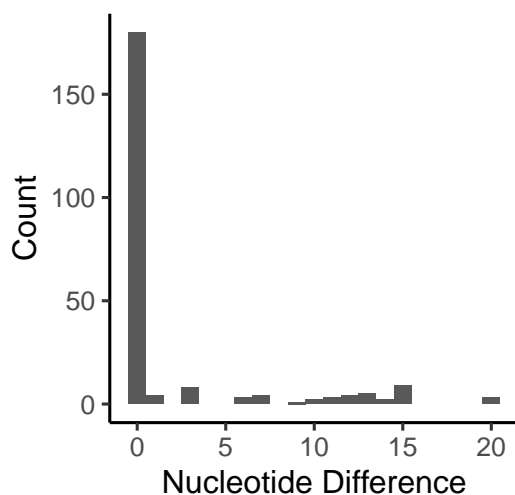
IGHV3-21*01_02

1300 sequences assigned
918 (70.6%) exact matches, in which:
567 unique CDR3
6 unique J



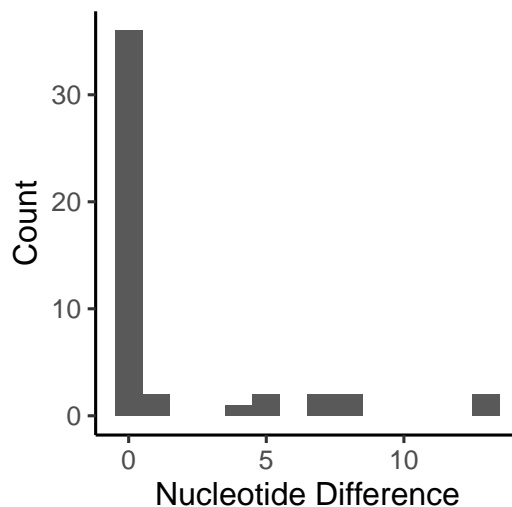
IGHV3-13*01

228 sequences assigned
180 (78.9%) exact matches, in which:
113 unique CDR3
5 unique J



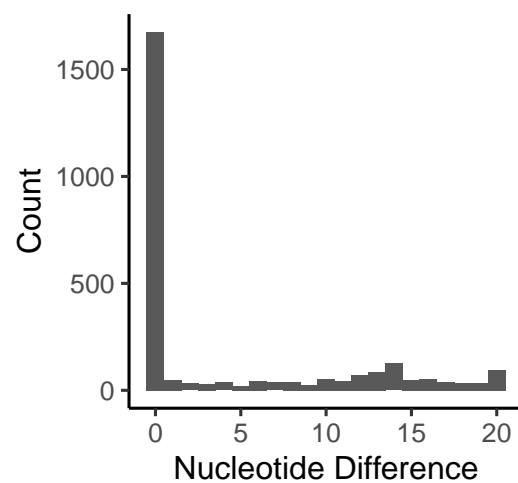
IGHV3-20*01_02

47 sequences assigned
36 (76.6%) exact matches, in which:
23 unique CDR3
5 unique J



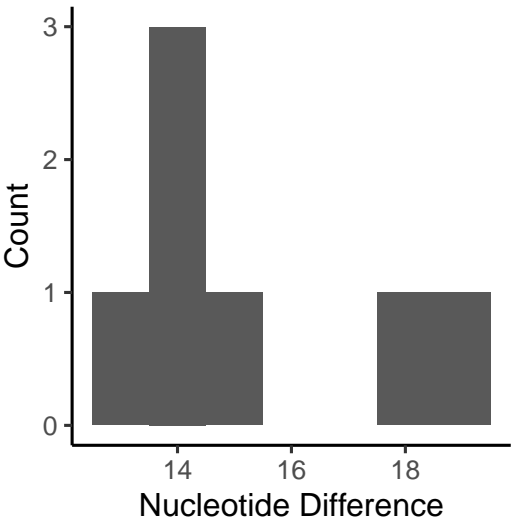
IGHV3-23*01_04

3259 sequences assigned
1675 (51.4%) exact matches, in which:
1058 unique CDR3
6 unique J



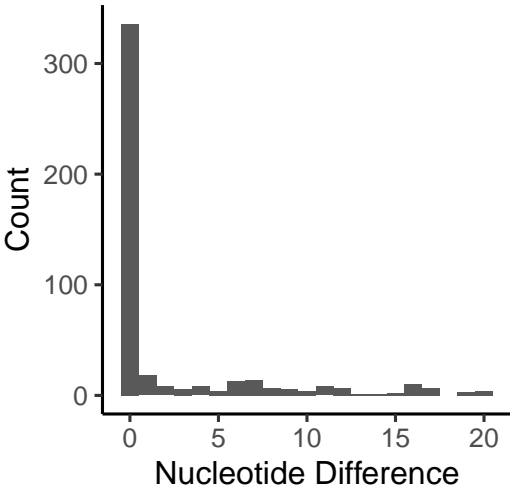
IGHV3-30-5*01

13 sequences assigned
No exact matches.



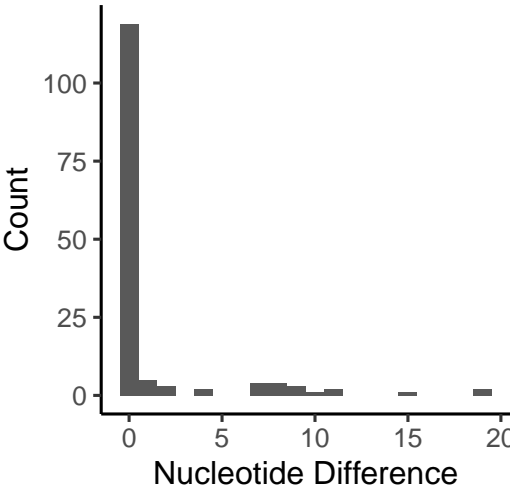
IGHV3-48*01

498 sequences assigned
336 (67.5%) exact matches, in which:
209 unique CDR3
6 unique J



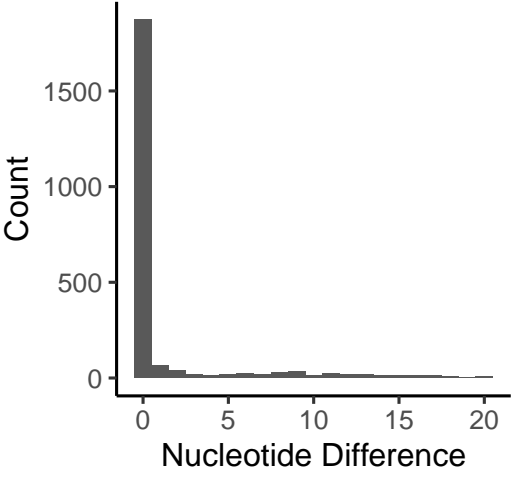
IGHV3-49*03_05

155 sequences assigned
119 (76.8%) exact matches, in which:
89 unique CDR3
6 unique J



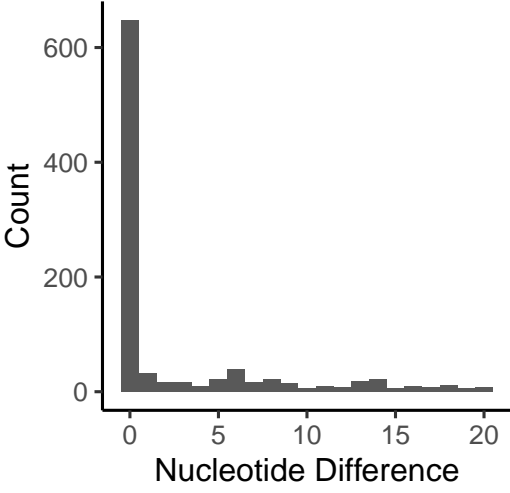
IGHV3-33*01

2331 sequences assigned
1872 (80.3%) exact matches, in which:
1249 unique CDR3
6 unique J



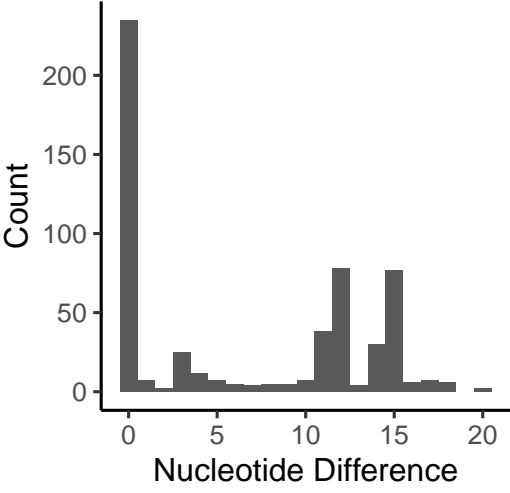
IGHV3-48*03

975 sequences assigned
648 (66.5%) exact matches, in which:
424 unique CDR3
6 unique J



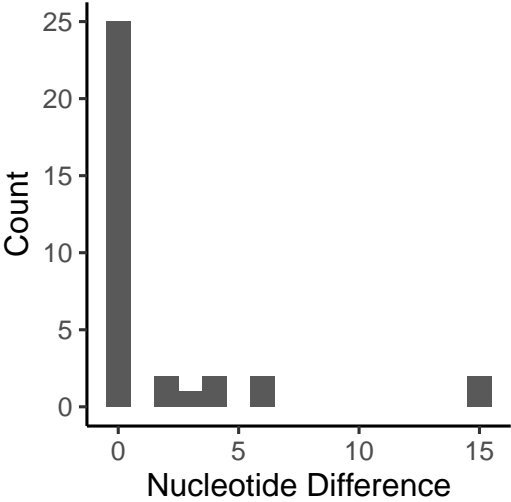
IGHV3-53*01_02

587 sequences assigned
235 (40%) exact matches, in which:
145 unique CDR3
6 unique J



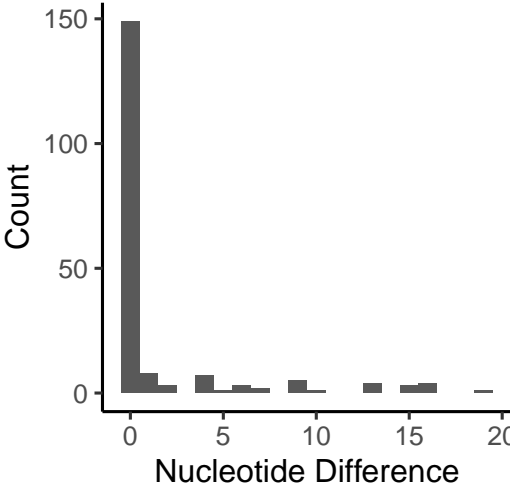
IGHV3-43*01

40 sequences assigned
25 (62.5%) exact matches, in which:
14 unique CDR3
3 unique J



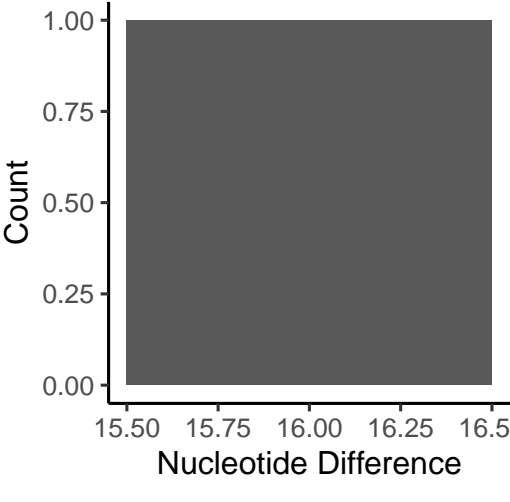
IGHV3-49*04

195 sequences assigned
149 (76.4%) exact matches, in which:
104 unique CDR3
6 unique J



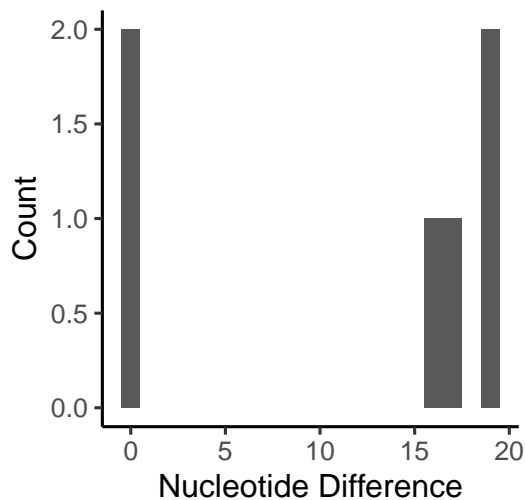
IGHV3-64*01

1 sequences assigned
No exact matches.



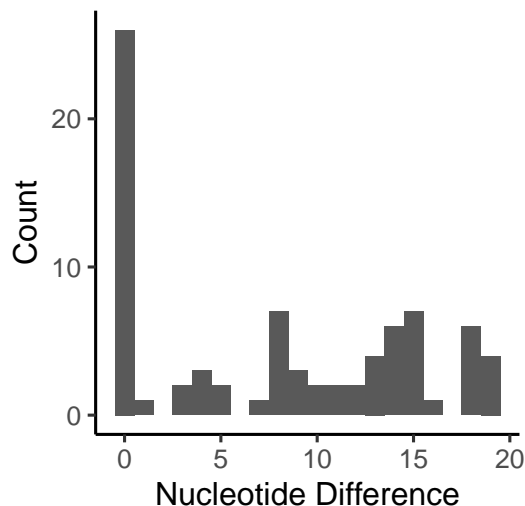
IGHV3-64*02_07

6 sequences assigned
2 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



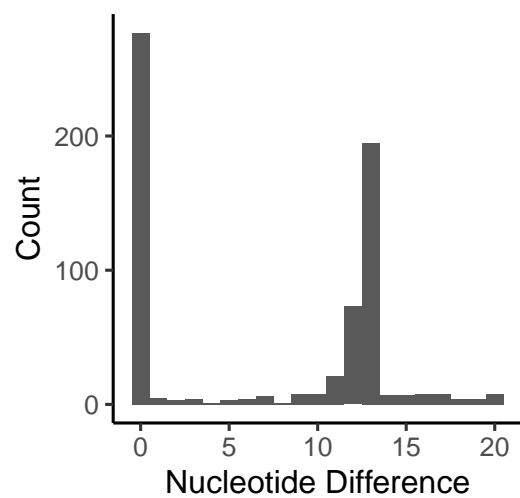
IGHV3-72*01

87 sequences assigned
26 (29.9%) exact matches, in which:
17 unique CDR3
3 unique J



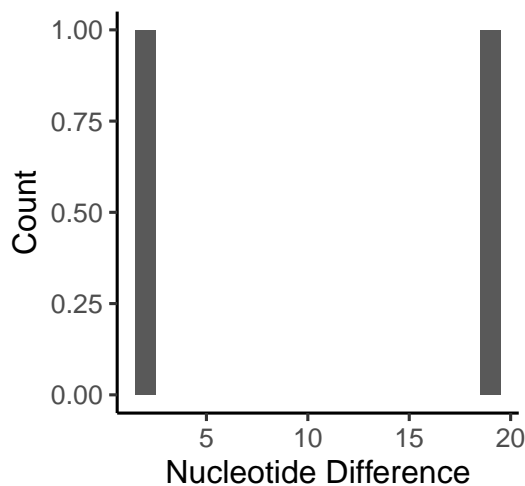
IGHV3-74*01_02

675 sequences assigned
277 (41%) exact matches, in which:
166 unique CDR3
5 unique J



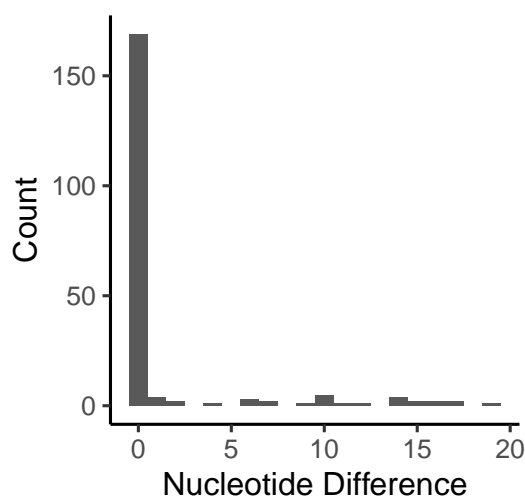
IGHV3-66*03

4 sequences assigned
No exact matches.



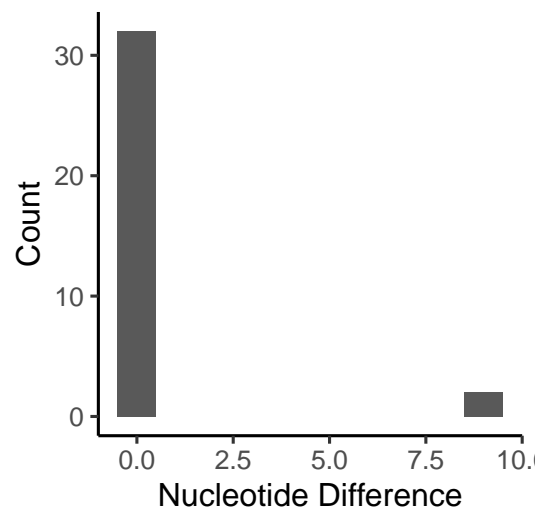
IGHV3-73*01_02

208 sequences assigned
169 (81.2%) exact matches, in which:
114 unique CDR3
6 unique J



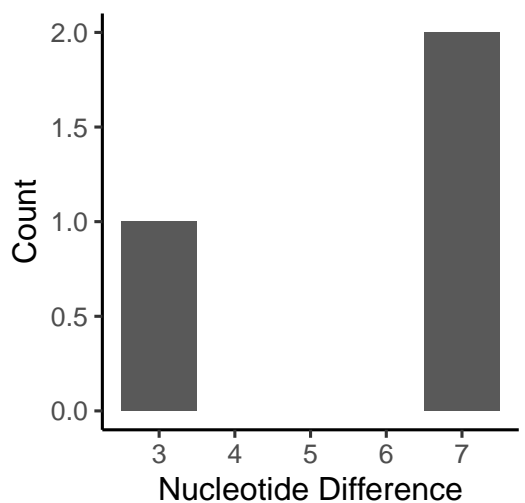
IGHV3-43D*04

34 sequences assigned
32 (94.1%) exact matches, in which:
24 unique CDR3
2 unique J



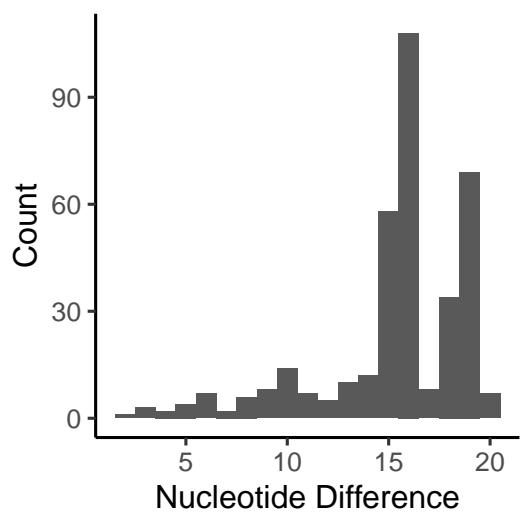
IGHV3-69-1*01

3 sequences assigned
No exact matches.



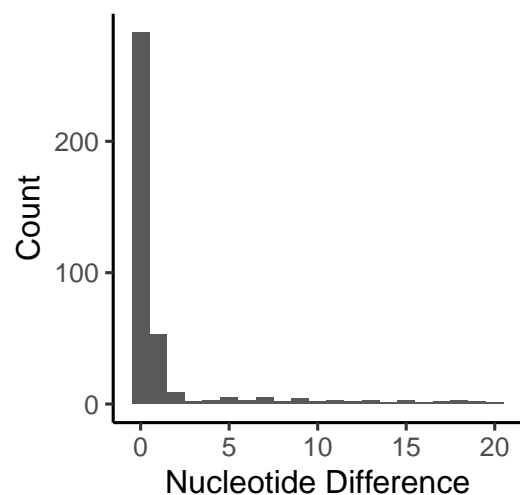
IGHV3-74*03

408 sequences assigned
No exact matches.



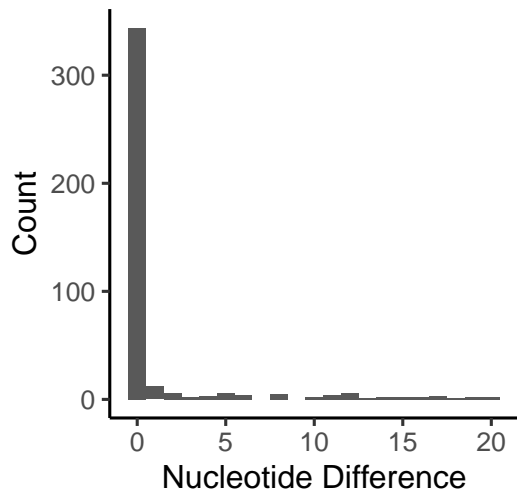
IGHV4-4*07

437 sequences assigned
283 (64.8%) exact matches, in which:
280 unique CDR3
6 unique J



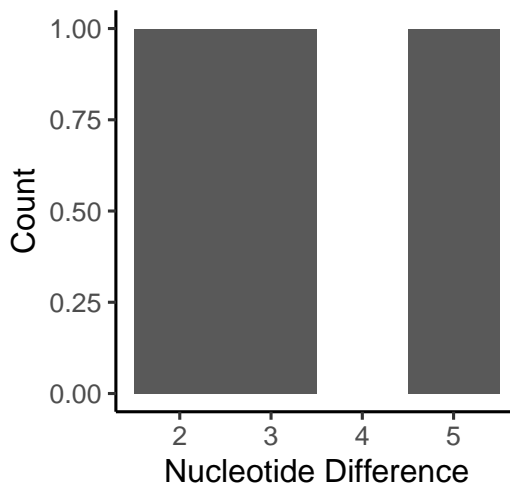
IGHV4-4*02_03

660 sequences assigned
344 (52.1%) exact matches, in which:
329 unique CDR3
6 unique J



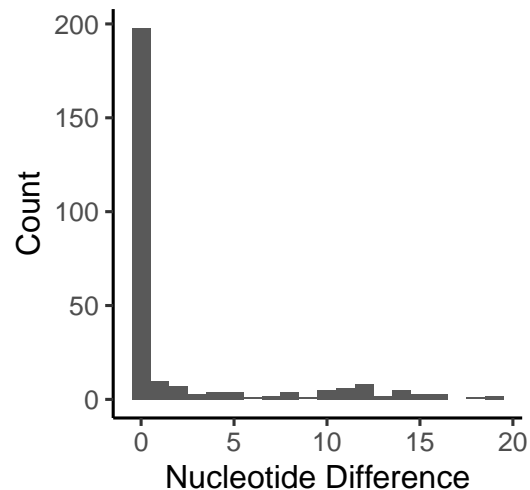
IGHV4-30-2*03

3 sequences assigned
No exact matches.



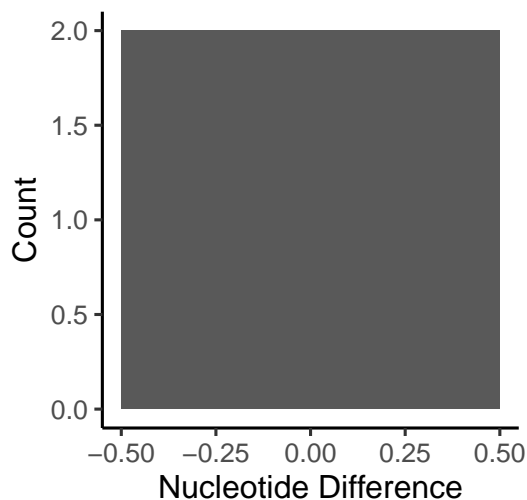
IGHV4-38-2*02_A70G

648 sequences assigned
198 (30.6%) exact matches, in which:
193 unique CDR3
5 unique J



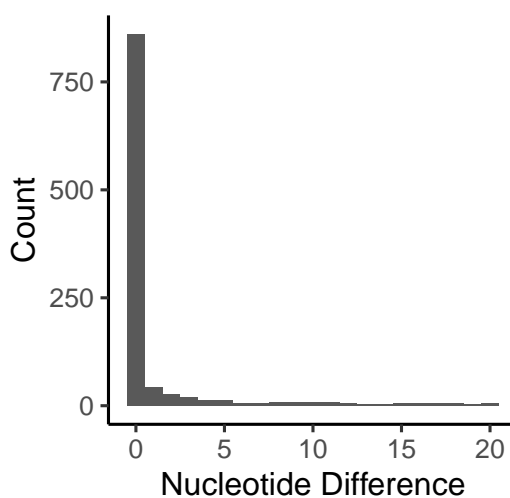
IGHV4-28*01_07

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



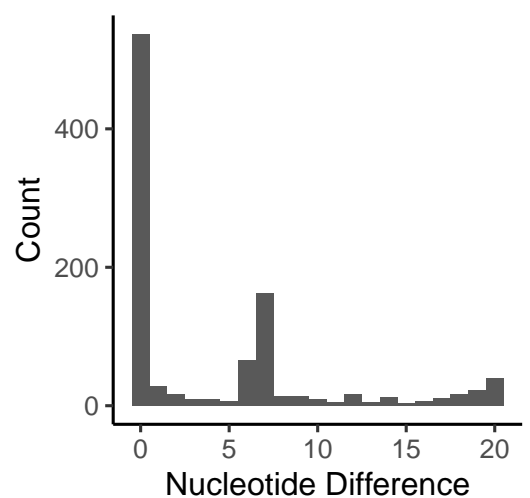
IGHV4-31*02

1088 sequences assigned
861 (79.1%) exact matches, in which:
834 unique CDR3
6 unique J



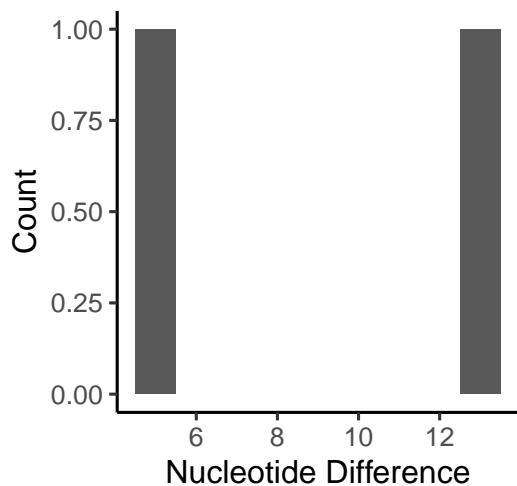
IGHV4-39*02_C258G

1148 sequences assigned
537 (46.8%) exact matches, in which:
527 unique CDR3
6 unique J



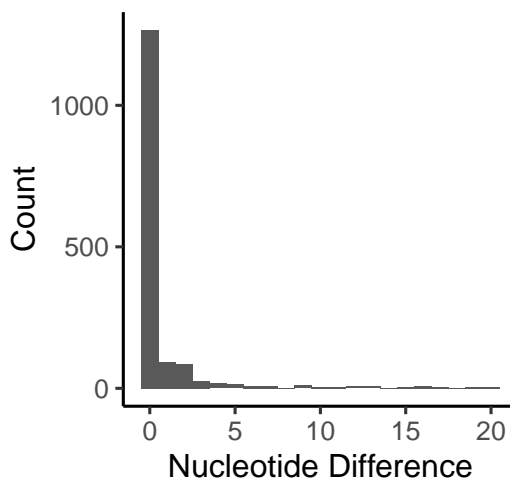
IGHV4-28*02_05

2 sequences assigned
No exact matches.



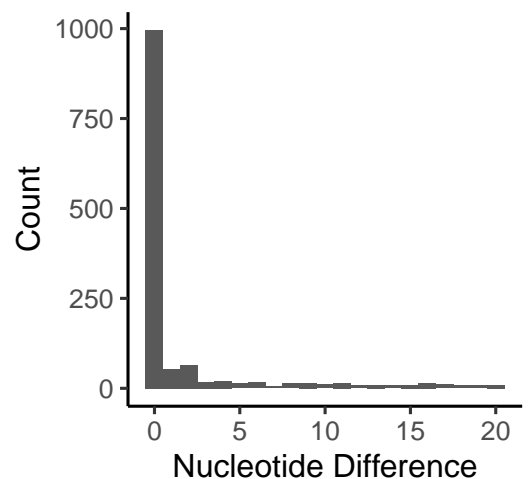
IGHV4-34*01_02

1953 sequences assigned
1266 (64.8%) exact matches, in which:
1212 unique CDR3
6 unique J



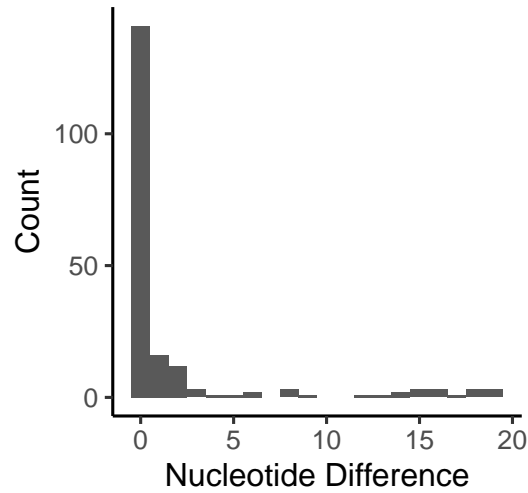
IGHV4-59*02_G88A

1373 sequences assigned
996 (72.5%) exact matches, in which:
988 unique CDR3
6 unique J



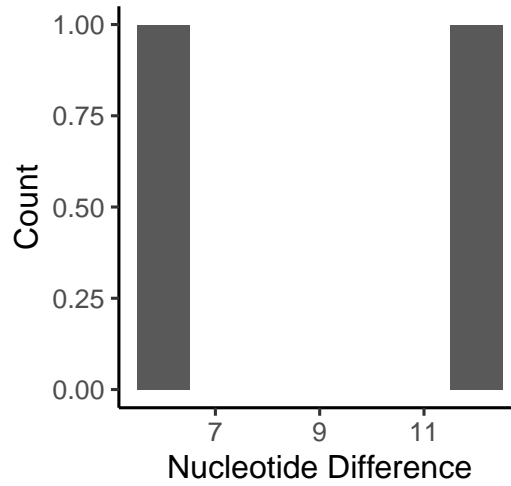
IGHV4-61*01

351 sequences assigned
141 (40.2%) exact matches, in which:
139 unique CDR3
5 unique J



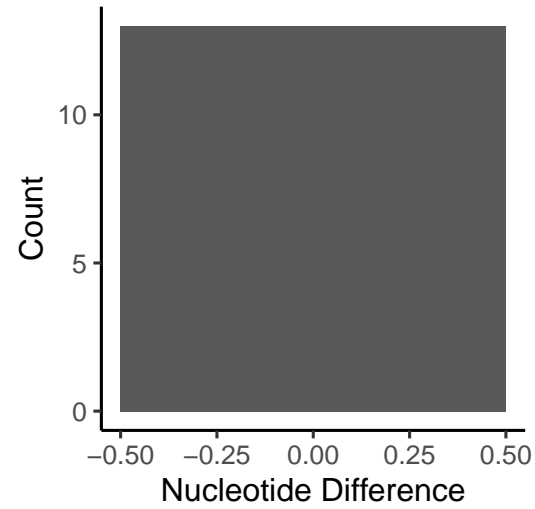
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



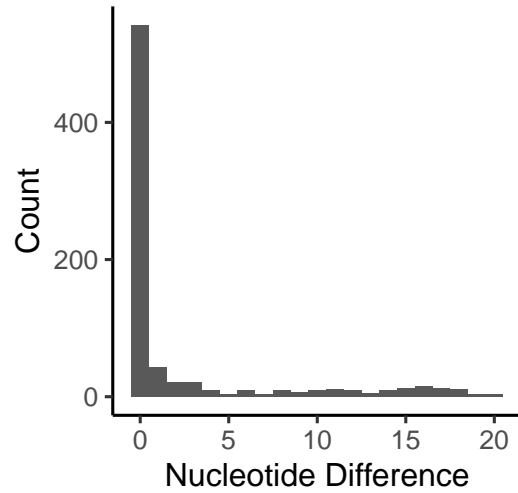
IGHV7-4-1*01

13 sequences assigned
13 (100%) exact matches, in which:
13 unique CDR3
3 unique J



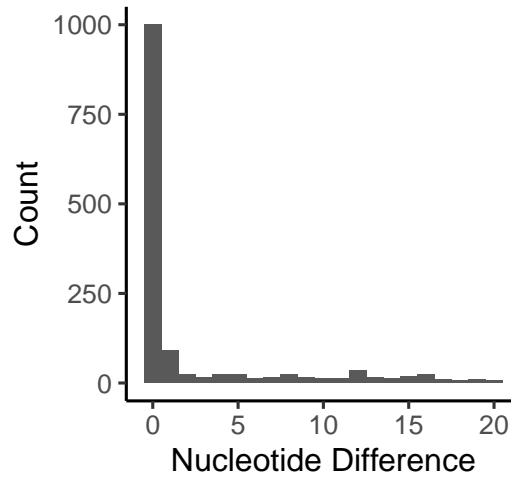
IGHV4-61*02_A234G

822 sequences assigned
542 (65.9%) exact matches, in which:
537 unique CDR3
6 unique J



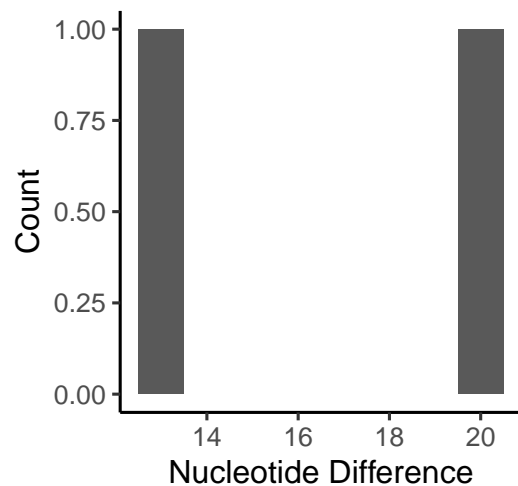
IGHV5-51*07_A128G

1652 sequences assigned
1000 (60.5%) exact matches, in which:
784 unique CDR3
6 unique J



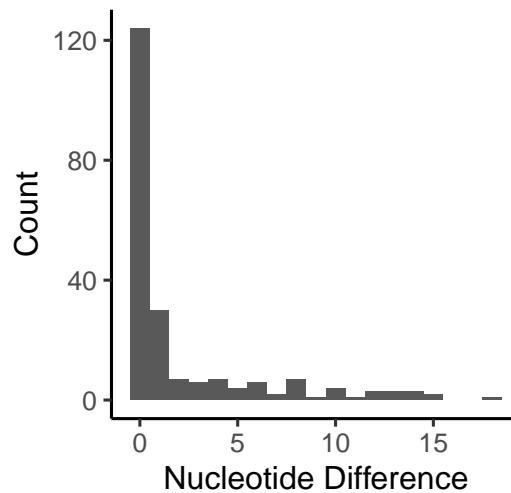
IGHV1/OR15-1*04

40 sequences assigned
No exact matches.



IGHV6-1*01_02

217 sequences assigned
124 (57.1%) exact matches, in which:
124 unique CDR3
5 unique J





Warning – no inferred sequences found.