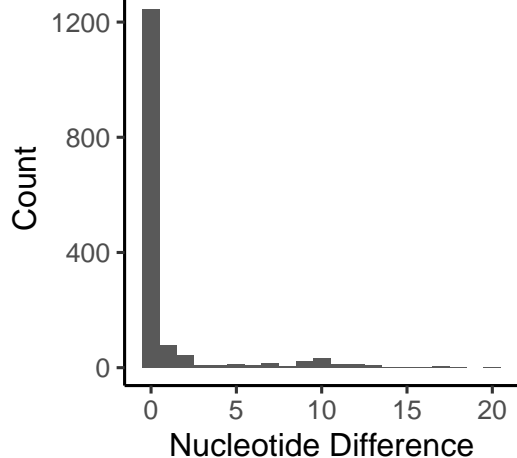


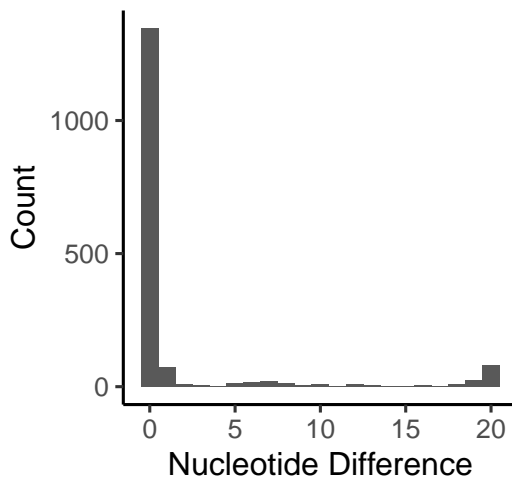
IGHV1-2*02

1613 sequences assigned
1244 (77.1%) exact matches, in which:
1226 unique CDR3
7 unique J



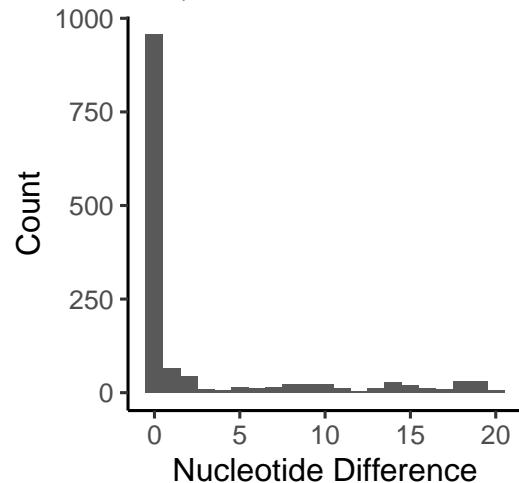
IGHV1-8*01

1820 sequences assigned
1346 (74%) exact matches, in which:
1332 unique CDR3
7 unique J



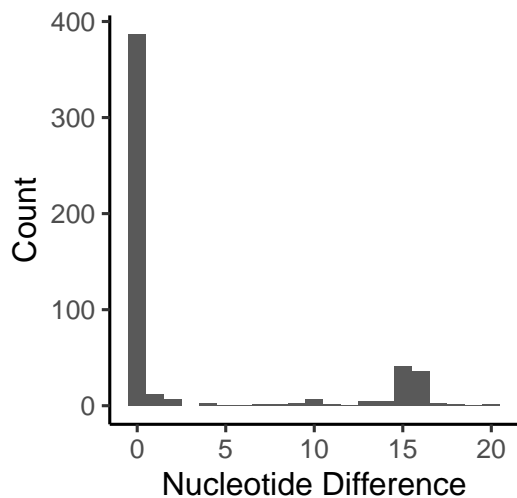
IGHV1-46*01

1521 sequences assigned
957 (62.9%) exact matches, in which:
952 unique CDR3
7 unique J



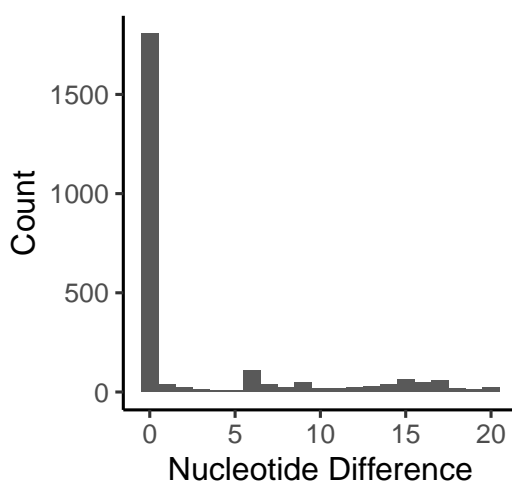
IGHV1-2*04

592 sequences assigned
387 (65.4%) exact matches, in which:
385 unique CDR3
7 unique J



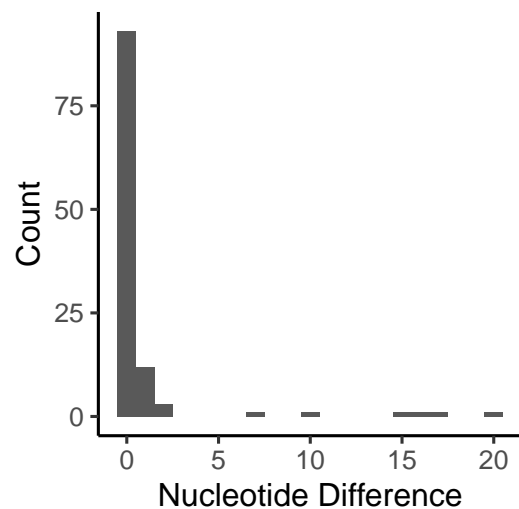
IGHV1-18*01

2742 sequences assigned
1806 (65.9%) exact matches, in which:
1789 unique CDR3
7 unique J



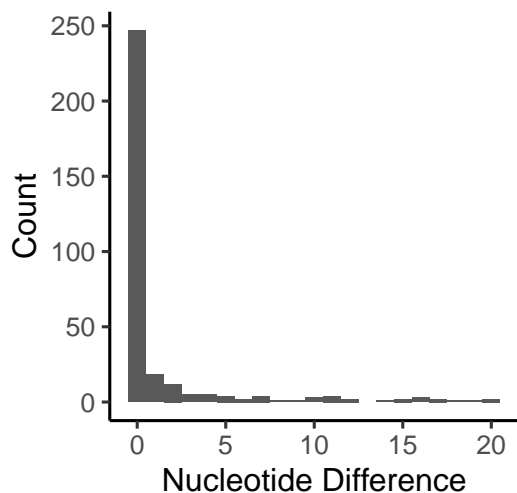
IGHV1-58*01_03

120 sequences assigned
93 (77.5%) exact matches, in which:
93 unique CDR3
6 unique J



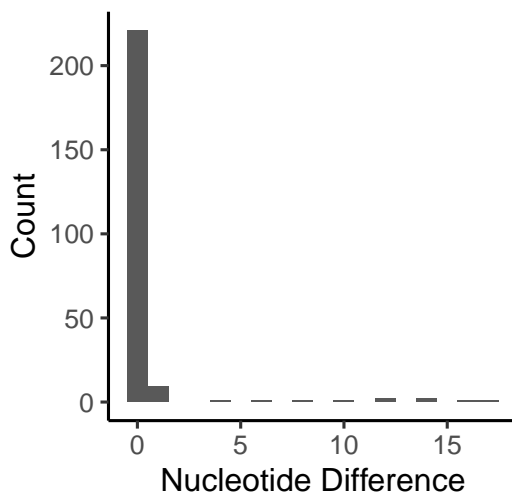
IGHV1-3*01_05

338 sequences assigned
247 (73.1%) exact matches, in which:
245 unique CDR3
6 unique J



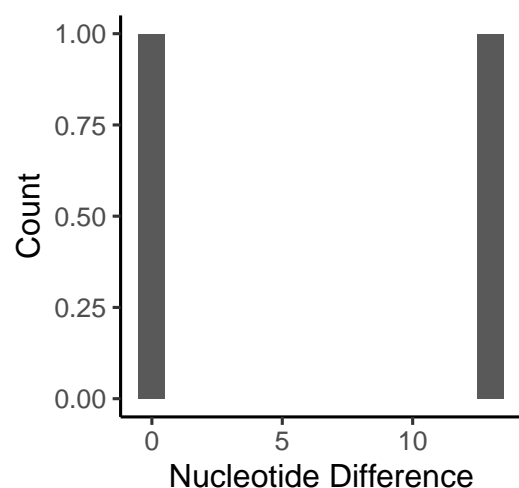
IGHV1-24*01

253 sequences assigned
221 (87.4%) exact matches, in which:
220 unique CDR3
7 unique J



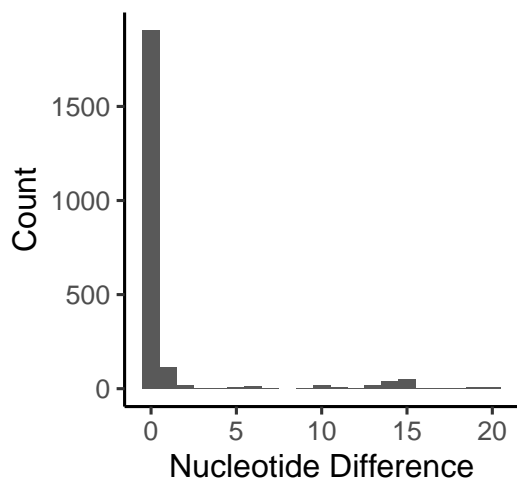
IGHV1-69-2*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



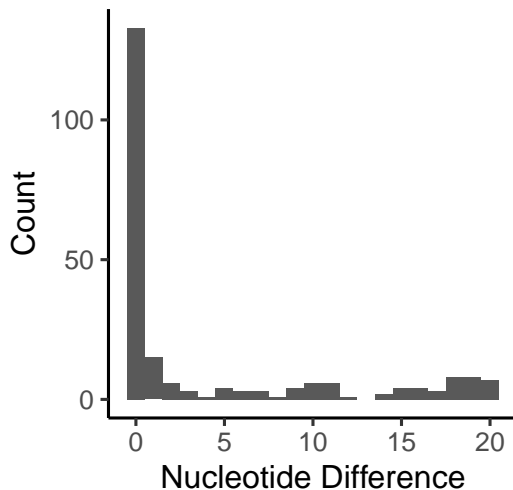
IGHV1-69*01_12_13

2409 sequences assigned
1904 (79%) exact matches, in which:
1886 unique CDR3
7 unique J



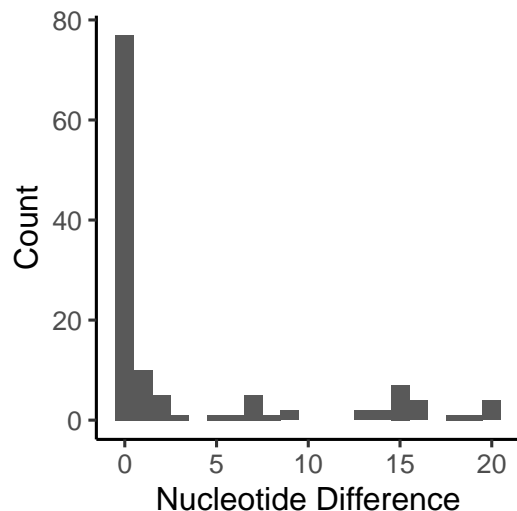
IGHV2-5*02

283 sequences assigned
133 (47%) exact matches, in which:
129 unique CDR3
6 unique J



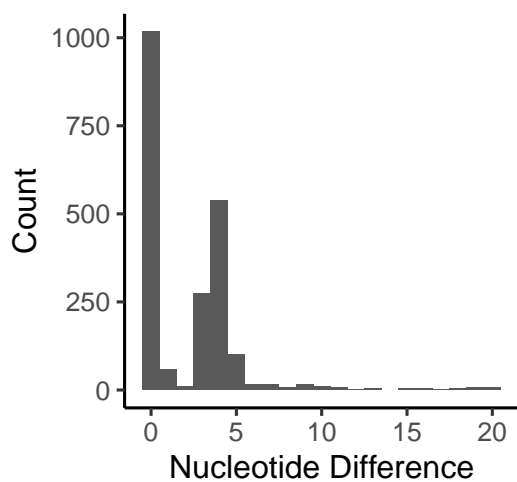
IGHV2-70*11_15

160 sequences assigned
77 (48.1%) exact matches, in which:
76 unique CDR3
5 unique J



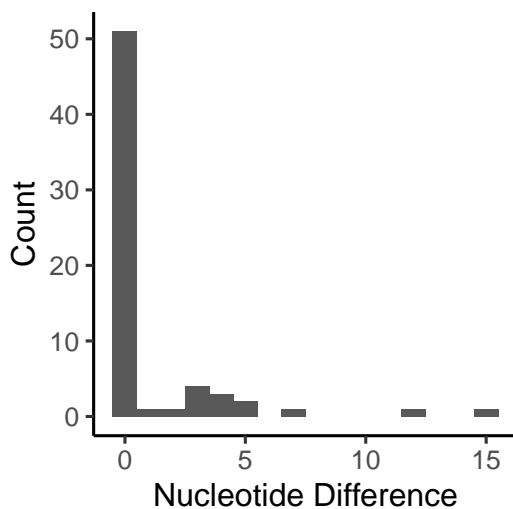
IGHV1-69*06_14

2134 sequences assigned
1017 (47.7%) exact matches, in which:
1012 unique CDR3
7 unique J



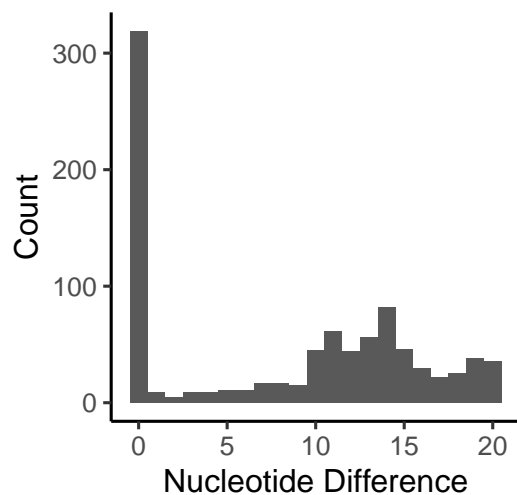
IGHV2-26*01

69 sequences assigned
51 (73.9%) exact matches, in which:
48 unique CDR3
6 unique J



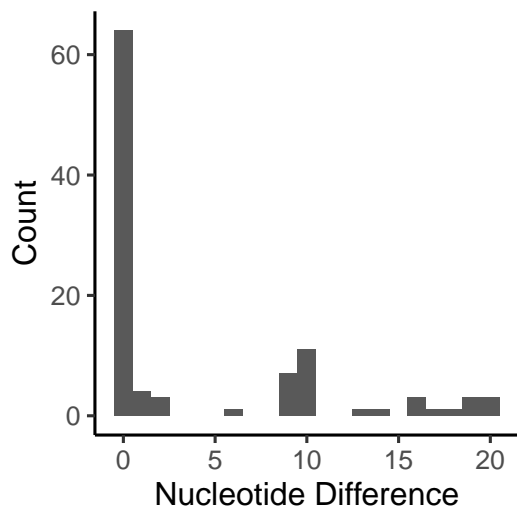
IGHV3-7*01

1419 sequences assigned
319 (22.5%) exact matches, in which:
264 unique CDR3
7 unique J



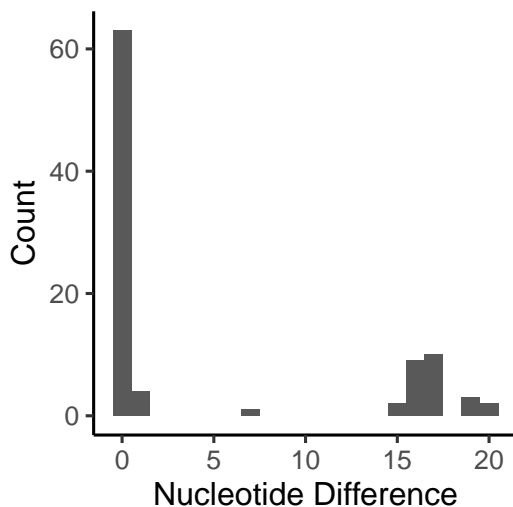
IGHV2-5*01

129 sequences assigned
64 (49.6%) exact matches, in which:
63 unique CDR3
5 unique J



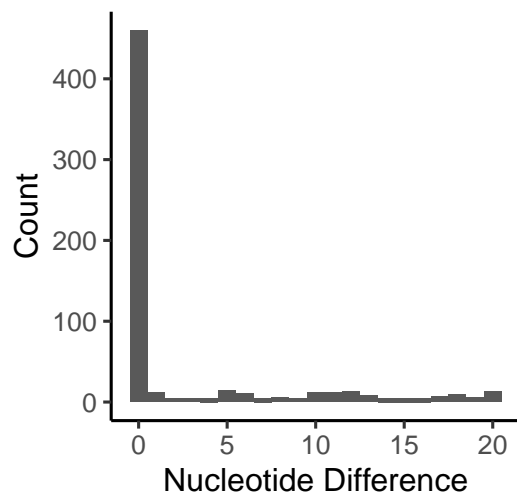
IGHV2-70*01

98 sequences assigned
63 (64.3%) exact matches, in which:
62 unique CDR3
7 unique J



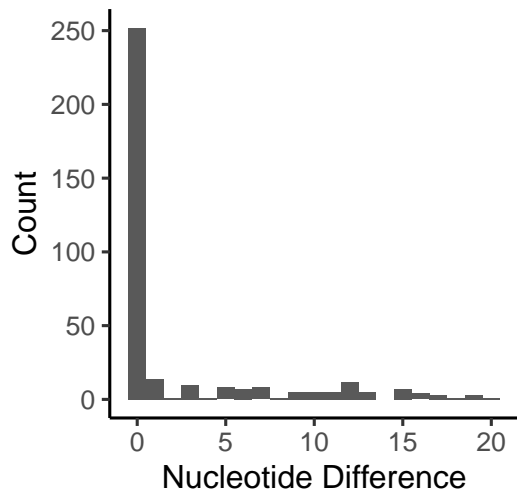
IGHV3-9*01

719 sequences assigned
460 (64%) exact matches, in which:
372 unique CDR3
7 unique J



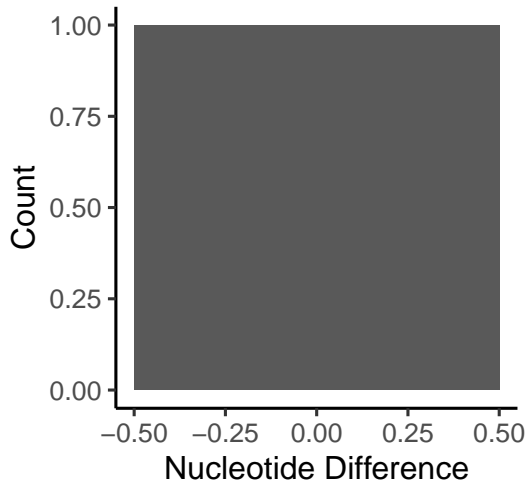
IGHV3-11*01

443 sequences assigned
252 (56.9%) exact matches, in which:
201 unique CDR3
7 unique J



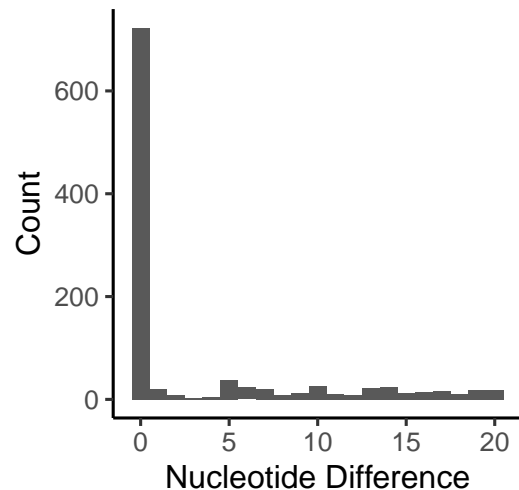
IGHV3-19*01

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



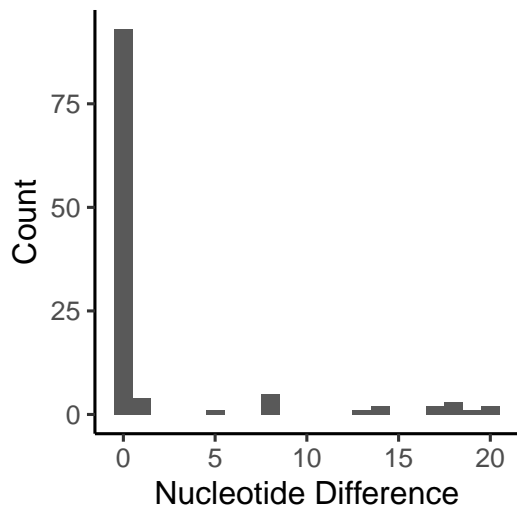
IGHV3-21*01_02

1236 sequences assigned
723 (58.5%) exact matches, in which:
592 unique CDR3
7 unique J



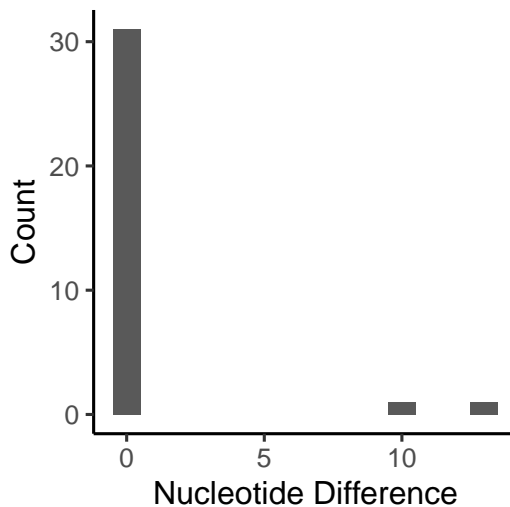
IGHV3-13*01

145 sequences assigned
93 (64.1%) exact matches, in which:
79 unique CDR3
7 unique J



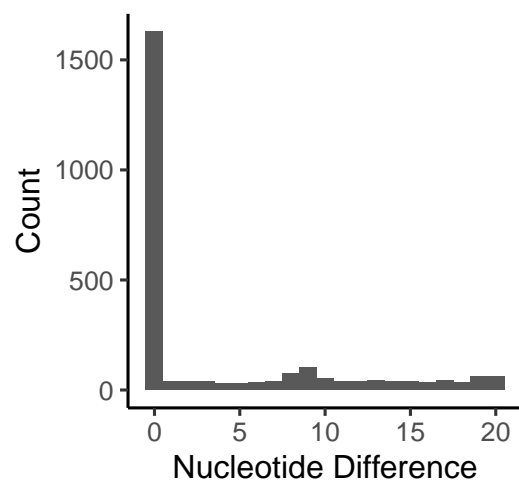
IGHV3-20*01_02

33 sequences assigned
31 (93.9%) exact matches, in which:
22 unique CDR3
6 unique J



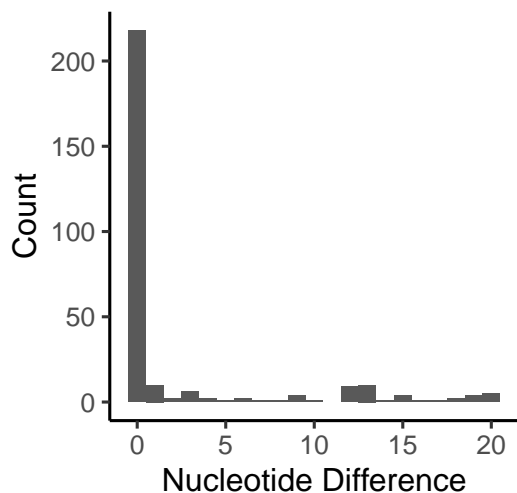
IGHV3-23*01_04

3442 sequences assigned
1628 (47.3%) exact matches, in which:
1362 unique CDR3
7 unique J



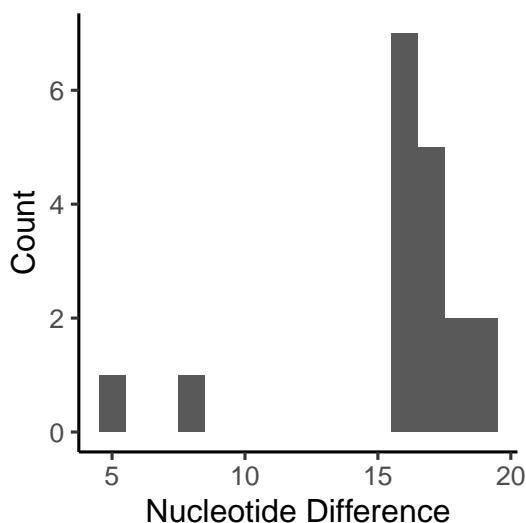
IGHV3-15*01_02

337 sequences assigned
218 (64.7%) exact matches, in which:
158 unique CDR3
7 unique J



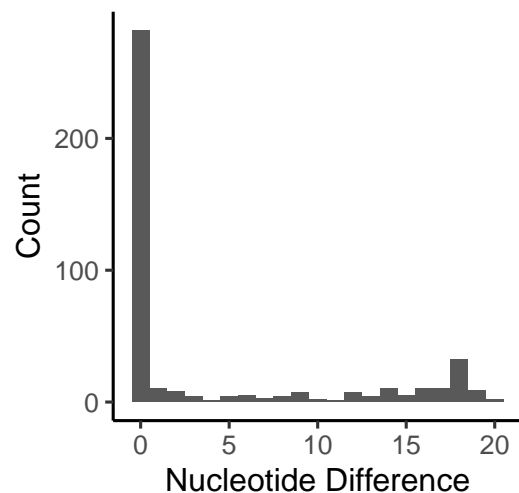
IGHV3-20*03_04

23 sequences assigned
No exact matches.



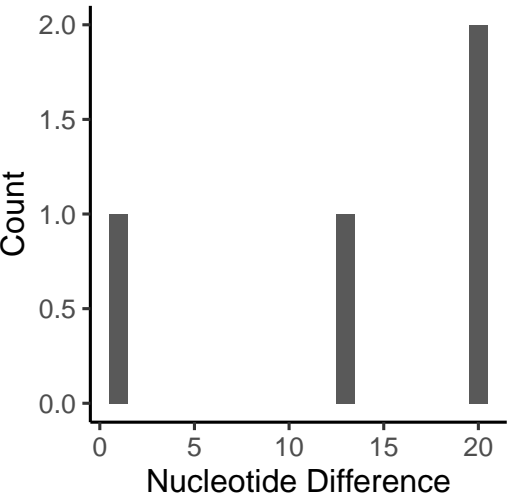
IGHV3-30*01

453 sequences assigned
282 (62.3%) exact matches, in which:
229 unique CDR3
7 unique J



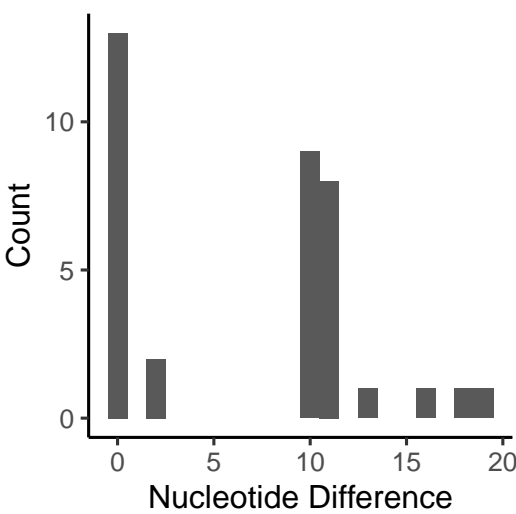
IGHV3-30-3*03

19 sequences assigned
No exact matches.



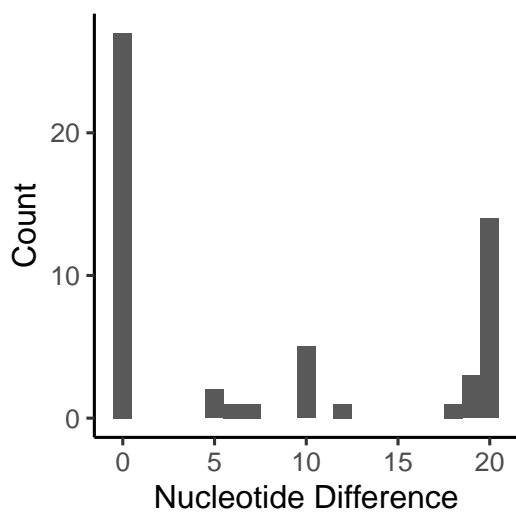
IGHV3-43*01

48 sequences assigned
13 (27.1%) exact matches, in which:
10 unique CDR3
3 unique J



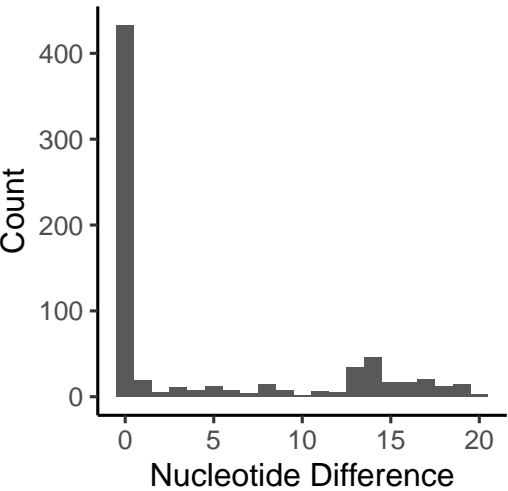
IGHV3-49*04

93 sequences assigned
27 (29%) exact matches, in which:
23 unique CDR3
4 unique J



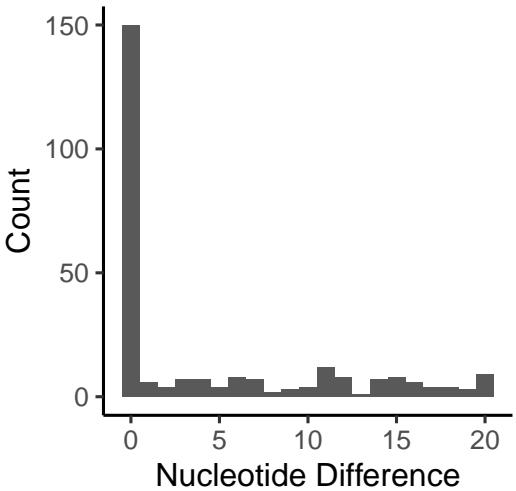
IGHV3-33*01

778 sequences assigned
433 (55.7%) exact matches, in which:
337 unique CDR3
7 unique J



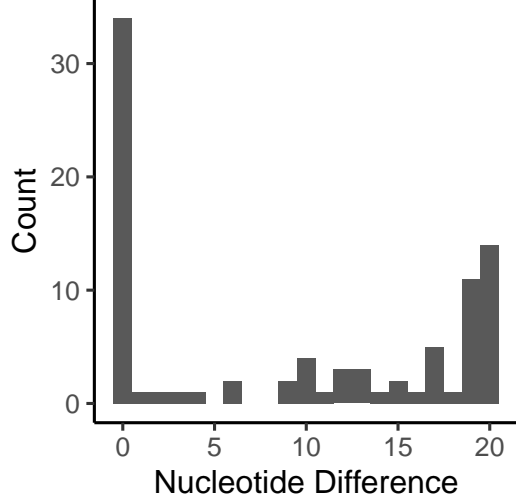
IGHV3-48*01

629 sequences assigned
150 (23.8%) exact matches, in which:
117 unique CDR3
5 unique J



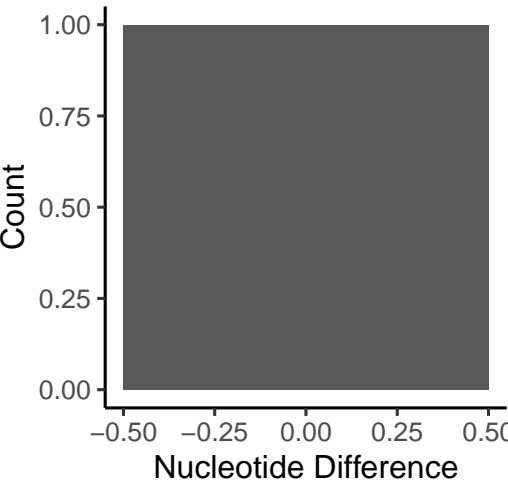
IGHV3-49*03_05

128 sequences assigned
34 (26.6%) exact matches, in which:
28 unique CDR3
4 unique J



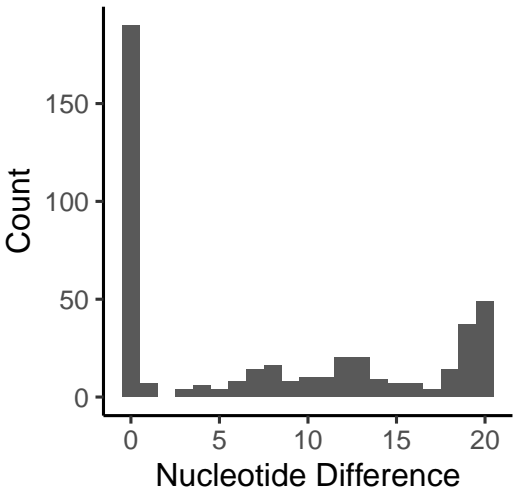
IGHV3-35*01

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



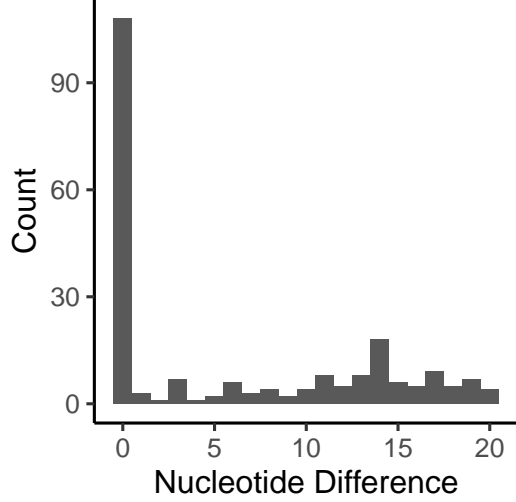
IGHV3-48*03

641 sequences assigned
190 (29.6%) exact matches, in which:
148 unique CDR3
6 unique J



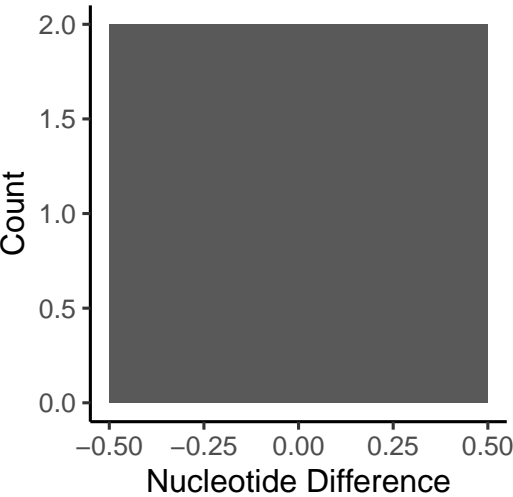
IGHV3-53*01_02

279 sequences assigned
108 (38.7%) exact matches, in which:
82 unique CDR3
7 unique J



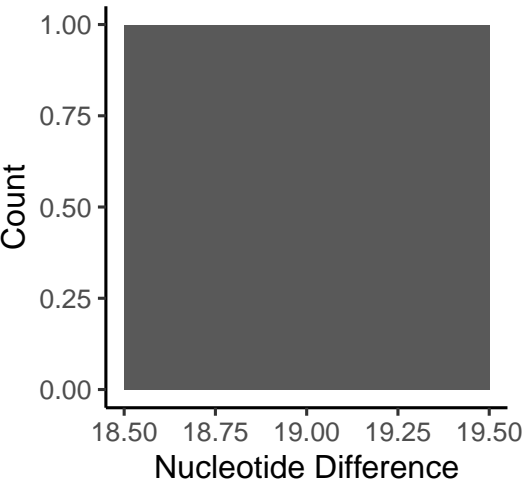
IGHV3-64*02_07

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



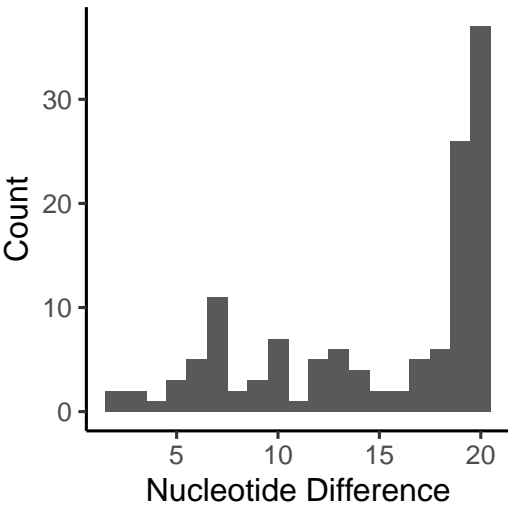
IGHV3-69-1*02

5 sequences assigned
No exact matches.



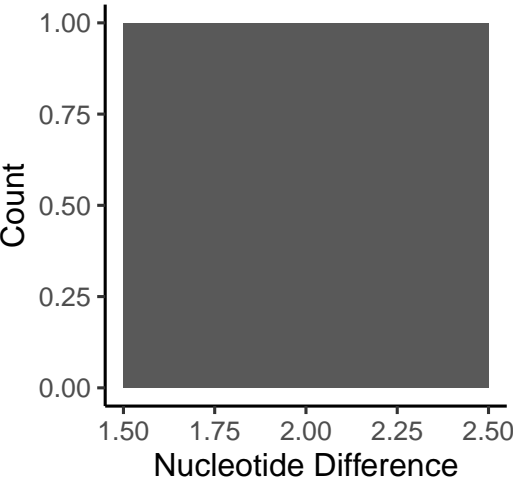
IGHV3-74*03

270 sequences assigned
No exact matches.



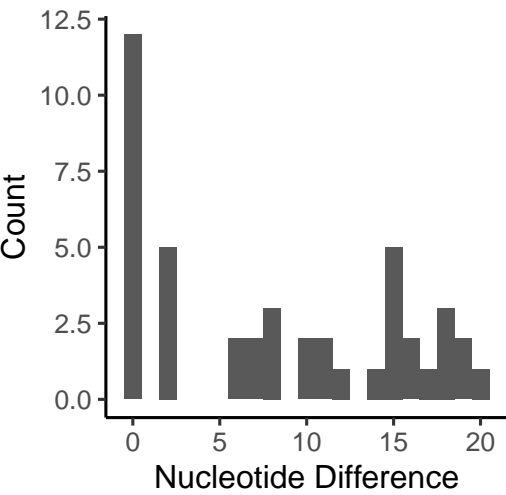
IGHV3-66*02

2 sequences assigned
No exact matches.



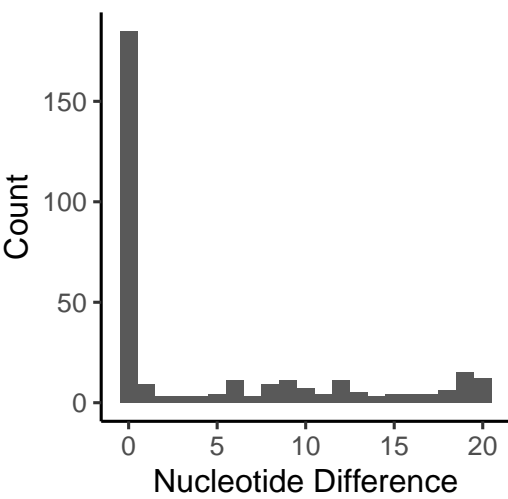
IGHV3-72*01

51 sequences assigned
12 (23.5%) exact matches, in which:
8 unique CDR3
4 unique J



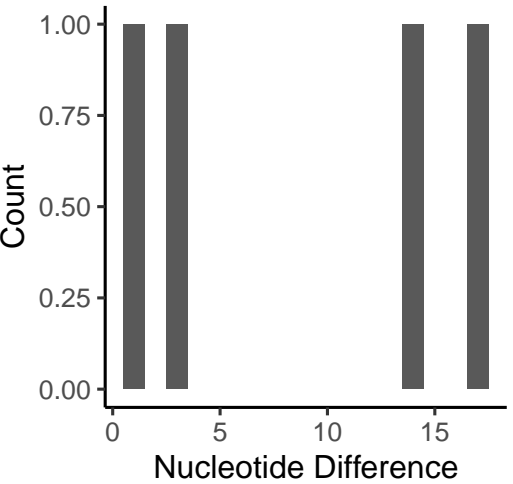
IGHV3-74*01_02

352 sequences assigned
185 (52.6%) exact matches, in which:
149 unique CDR3
7 unique J



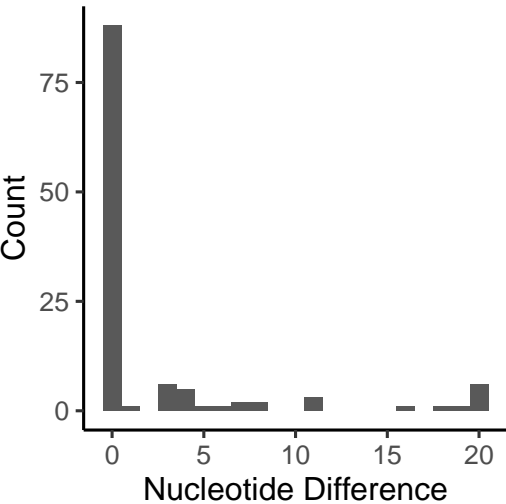
IGHV3-69-1*01

8 sequences assigned
No exact matches.



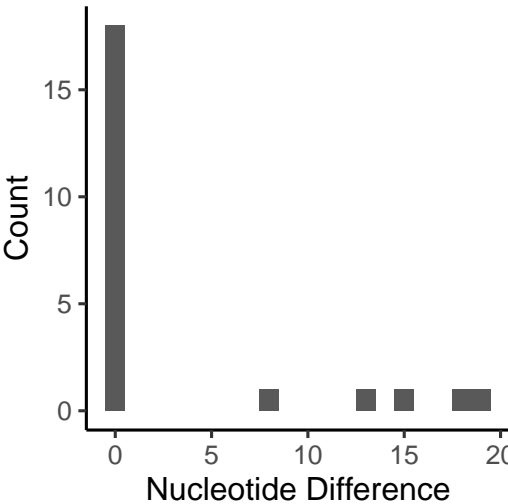
IGHV3-73*01_02

129 sequences assigned
88 (68.2%) exact matches, in which:
68 unique CDR3
6 unique J



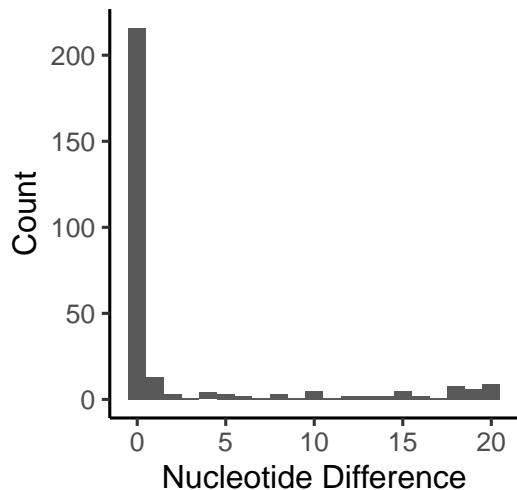
IGHV3-43D*04

29 sequences assigned
18 (62.1%) exact matches, in which:
18 unique CDR3
2 unique J



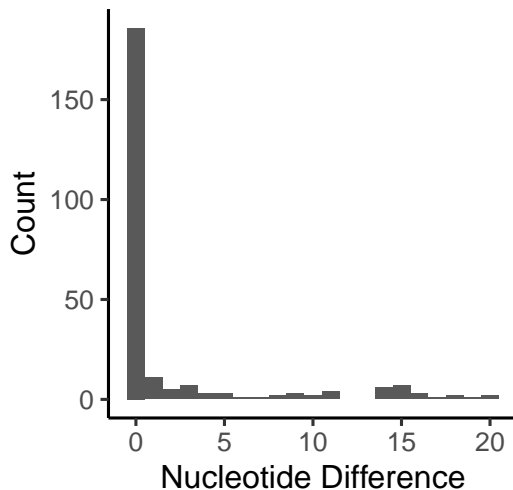
IGHV4-4*07

542 sequences assigned
216 (39.9%) exact matches, in which:
214 unique CDR3
6 unique J



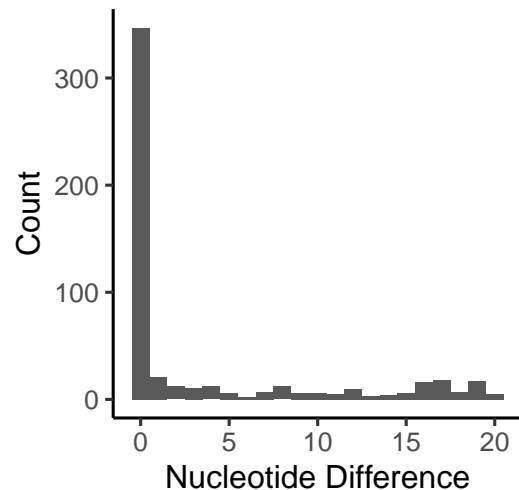
IGHV4-31*02

446 sequences assigned
186 (41.7%) exact matches, in which:
180 unique CDR3
6 unique J



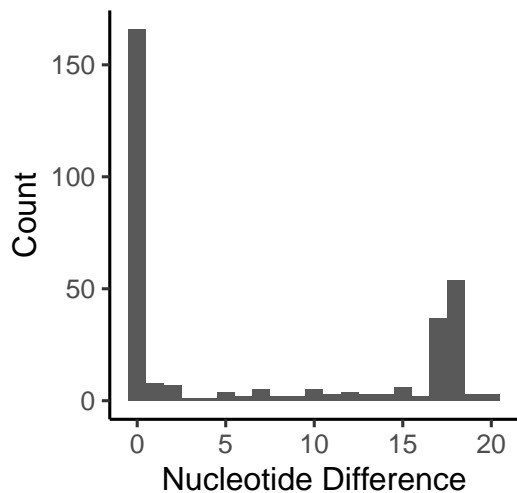
IGHV4-39*02_C258G

753 sequences assigned
347 (46.1%) exact matches, in which:
342 unique CDR3
7 unique J



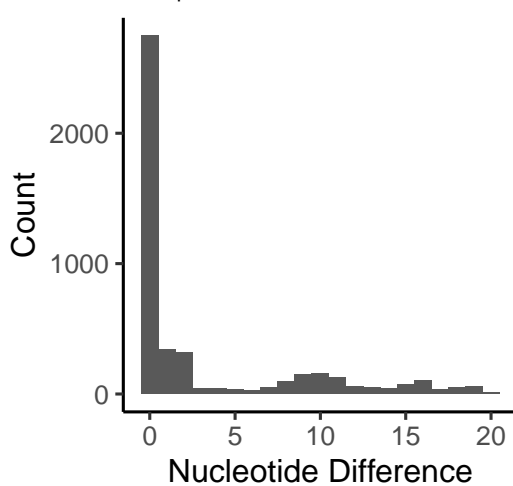
IGHV4-4*02_03

355 sequences assigned
166 (46.8%) exact matches, in which:
163 unique CDR3
6 unique J



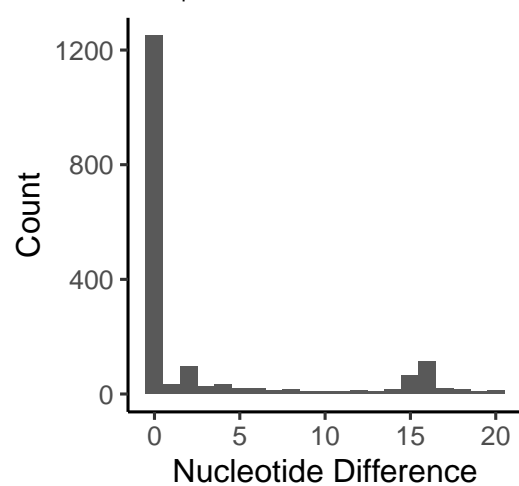
IGHV4-34*01_02

7141 sequences assigned
2748 (38.5%) exact matches, in which:
2648 unique CDR3
7 unique J



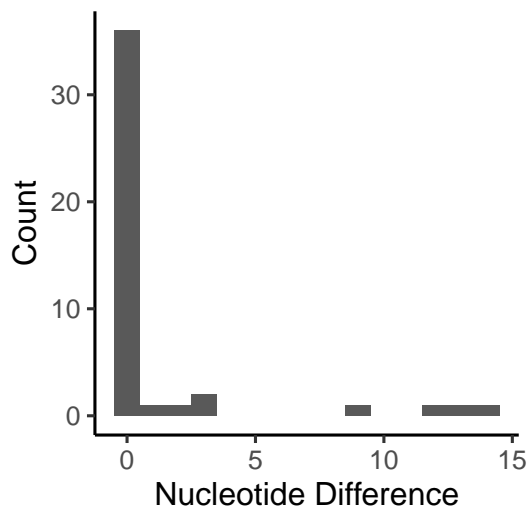
IGHV4-59*02_G88A

2192 sequences assigned
1250 (57%) exact matches, in which:
1235 unique CDR3
7 unique J



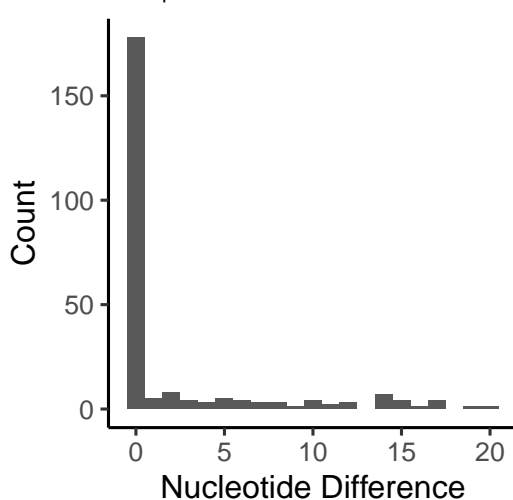
IGHV4-31*01

60 sequences assigned
36 (60%) exact matches, in which:
36 unique CDR3
5 unique J



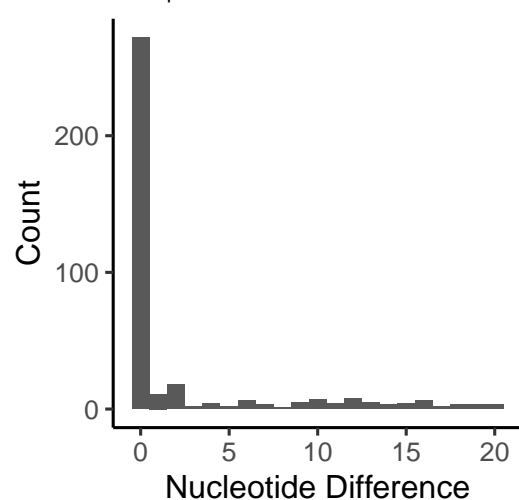
IGHV4-38-2*02_A70G

328 sequences assigned
178 (54.3%) exact matches, in which:
172 unique CDR3
6 unique J



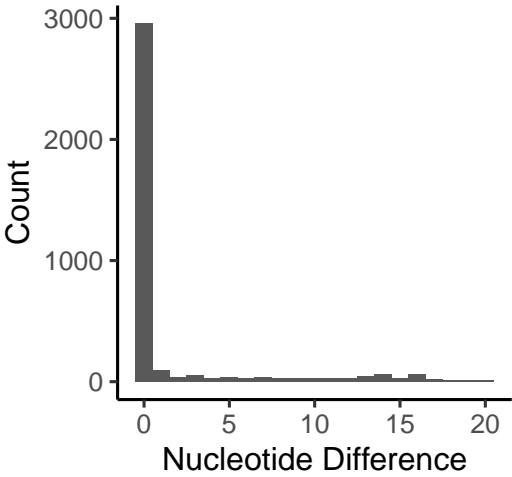
IGHV4-61*01

487 sequences assigned
272 (55.9%) exact matches, in which:
270 unique CDR3
7 unique J



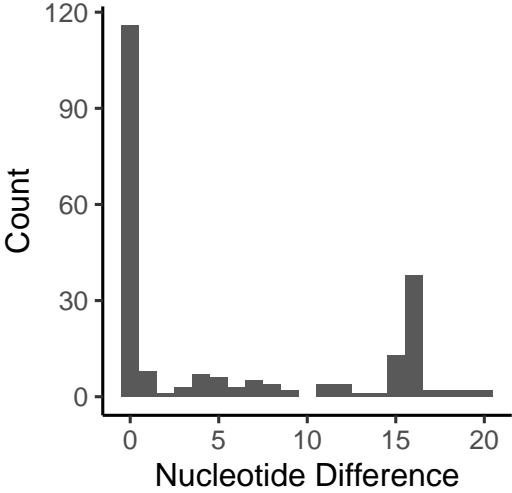
IGHV5-51*07_A128G

3838 sequences assigned
2958 (77.1%) exact matches, in which:
2588 unique CDR3
7 unique J



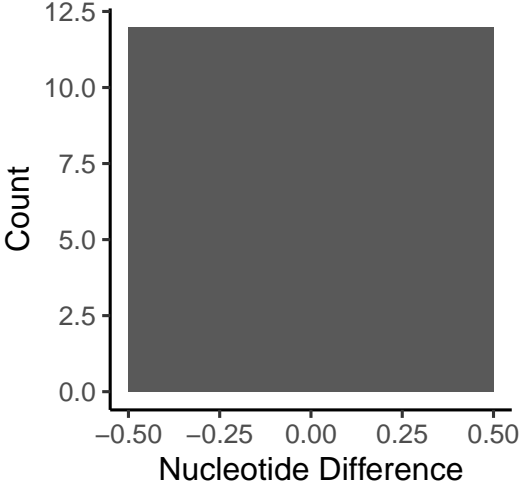
IGHV6-1*01_02

242 sequences assigned
116 (47.9%) exact matches, in which:
115 unique CDR3
6 unique J

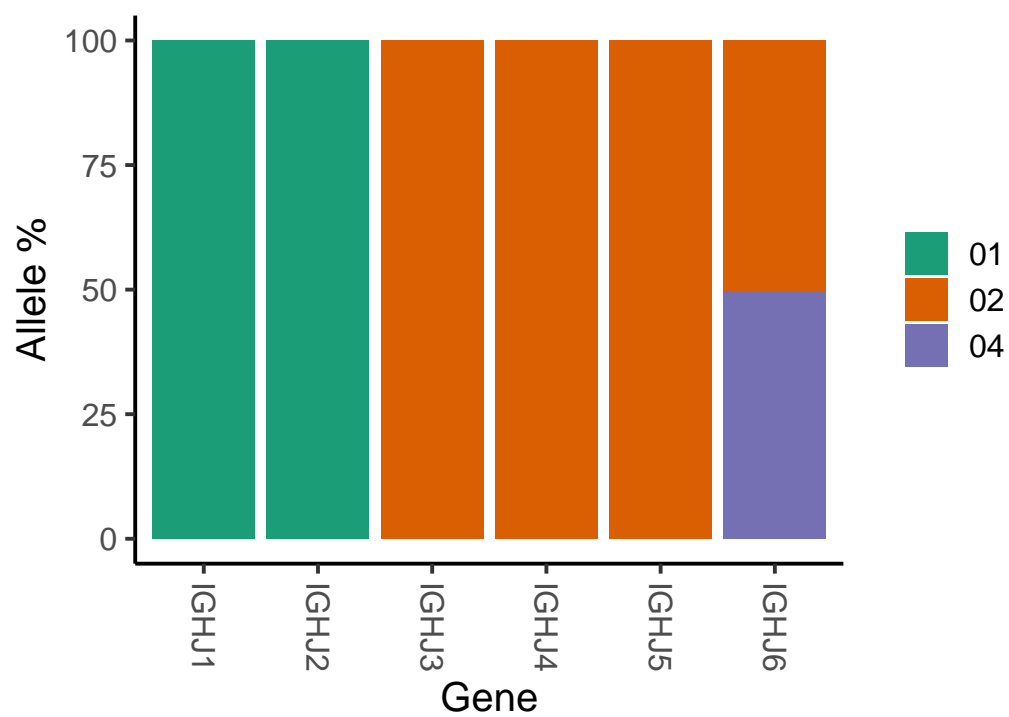


IGHV7-4-1*01

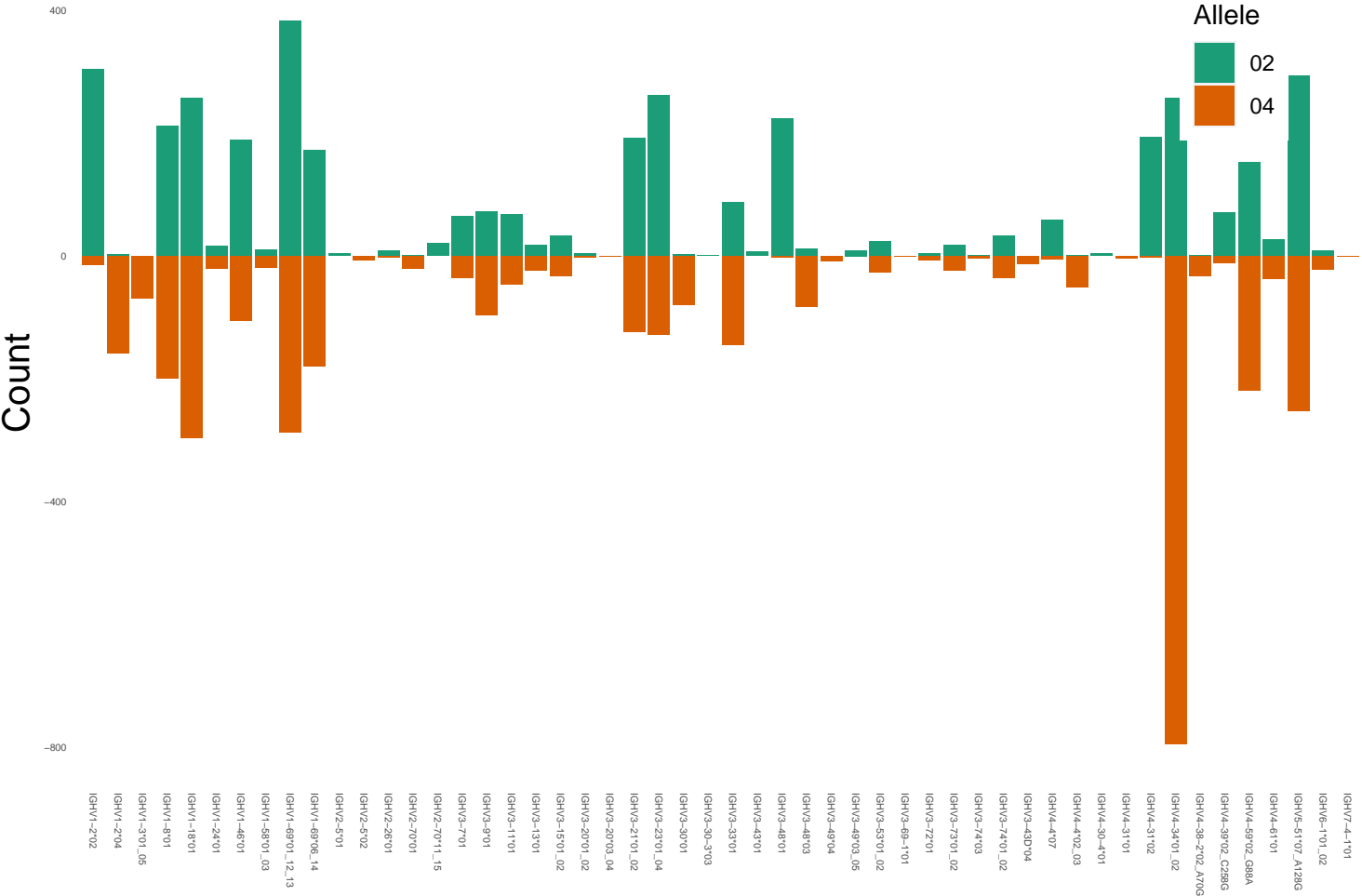
12 sequences assigned
12 (100%) exact matches, in which:
11 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.