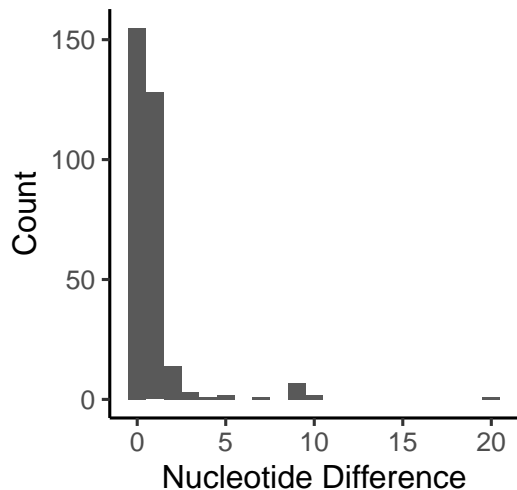


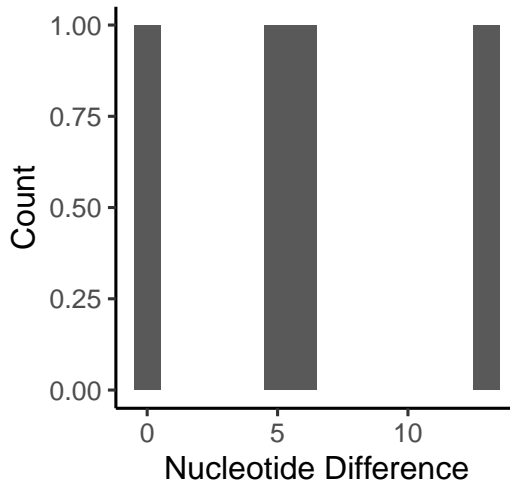
IGHV1-2*04

315 sequences assigned
155 (49.2%) exact matches, in which:
122 unique CDR3
6 unique J



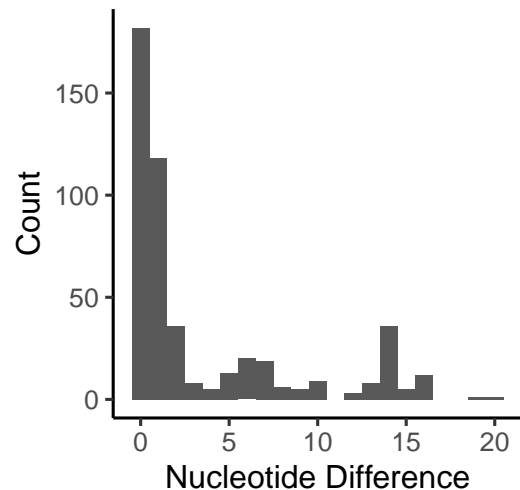
IGHV1-8*02

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



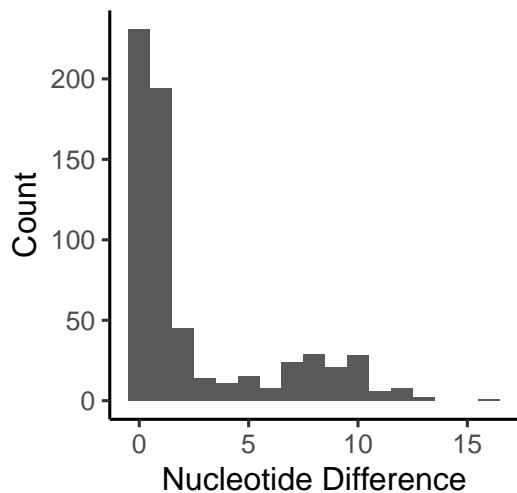
IGHV1-46*01

490 sequences assigned
182 (37.1%) exact matches, in which:
148 unique CDR3
6 unique J



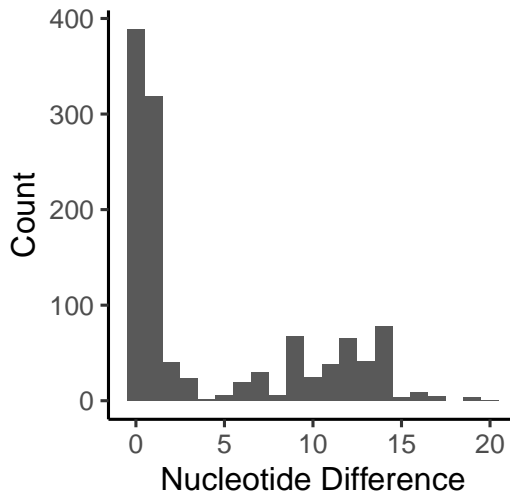
IGHV1-2*06

637 sequences assigned
231 (36.3%) exact matches, in which:
180 unique CDR3
7 unique J



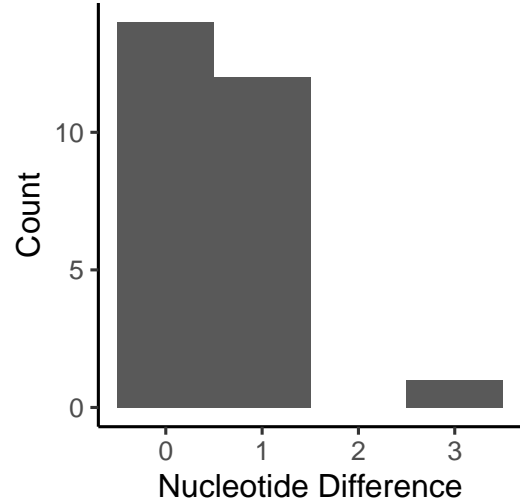
IGHV1-18*01

1326 sequences assigned
389 (29.3%) exact matches, in which:
318 unique CDR3
7 unique J



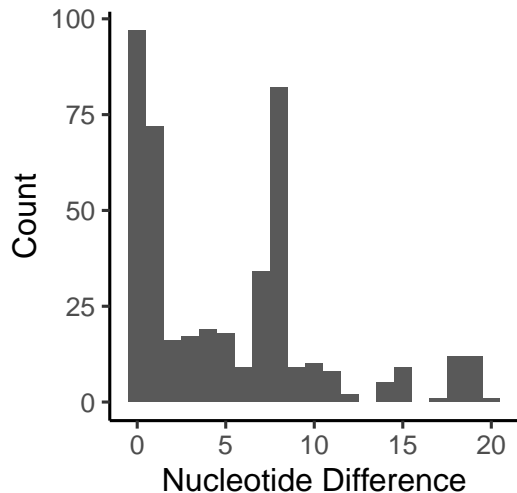
IGHV1-58*02

27 sequences assigned
14 (51.9%) exact matches, in which:
14 unique CDR3
3 unique J



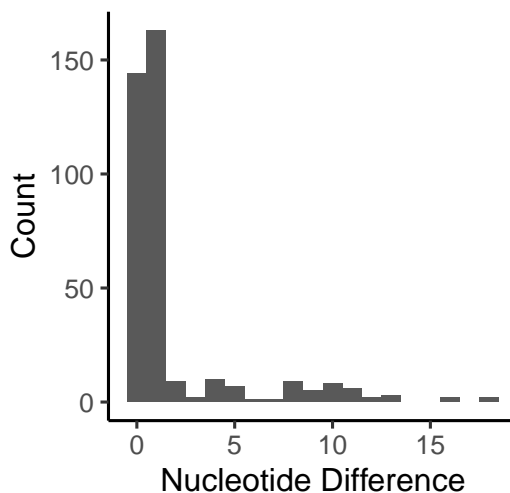
IGHV1-3*01_05

434 sequences assigned
97 (22.4%) exact matches, in which:
83 unique CDR3
6 unique J



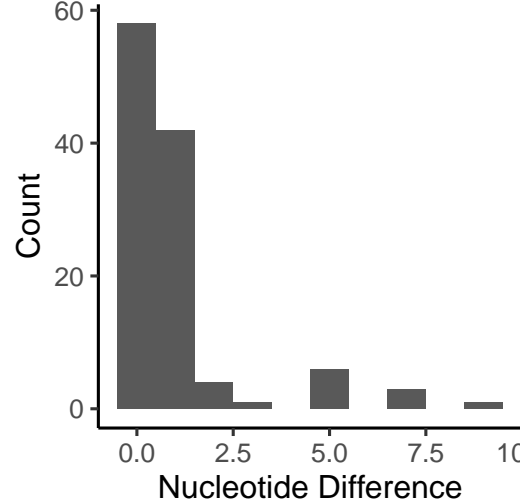
IGHV1-24*01

374 sequences assigned
144 (38.5%) exact matches, in which:
116 unique CDR3
6 unique J



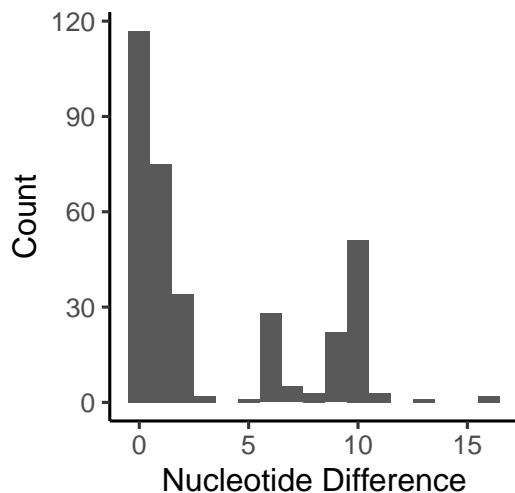
IGHV1-69*02

115 sequences assigned
58 (50.4%) exact matches, in which:
49 unique CDR3
6 unique J



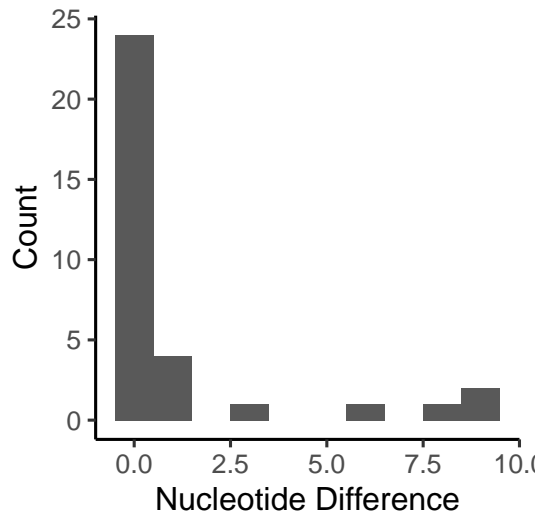
IGHV1–69*04_09

344 sequences assigned
117 (34%) exact matches, in which:
110 unique CDR3
7 unique J



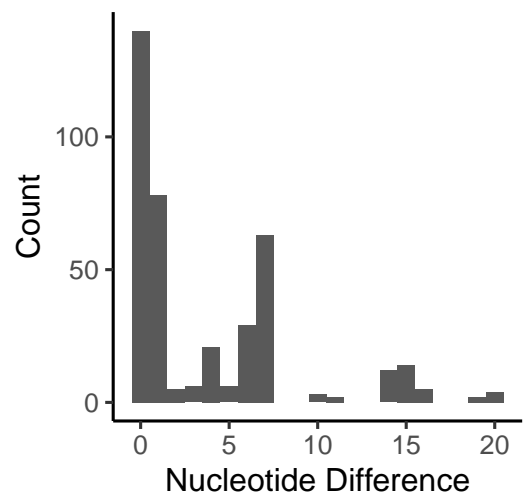
IGHV2–26*01

33 sequences assigned
24 (72.7%) exact matches, in which:
19 unique CDR3
5 unique J



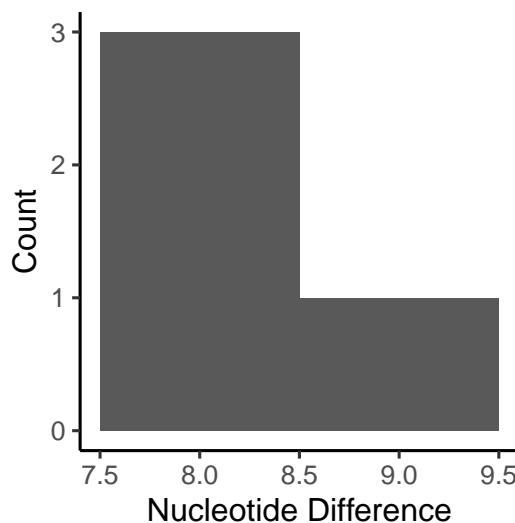
IGHV3–7*03

525 sequences assigned
140 (26.7%) exact matches, in which:
82 unique CDR3
5 unique J



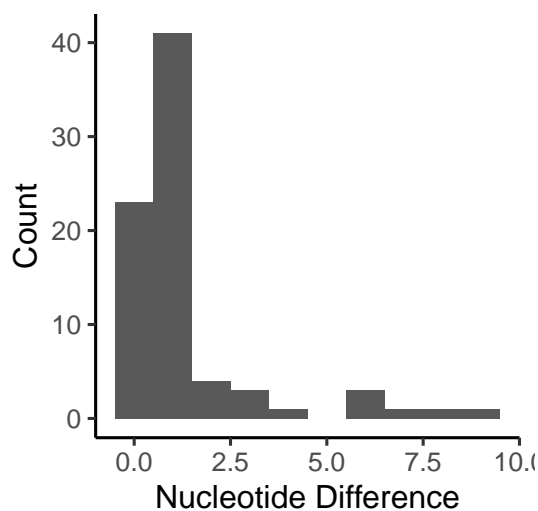
IGHV1–NL1*01

4 sequences assigned
No exact matches.



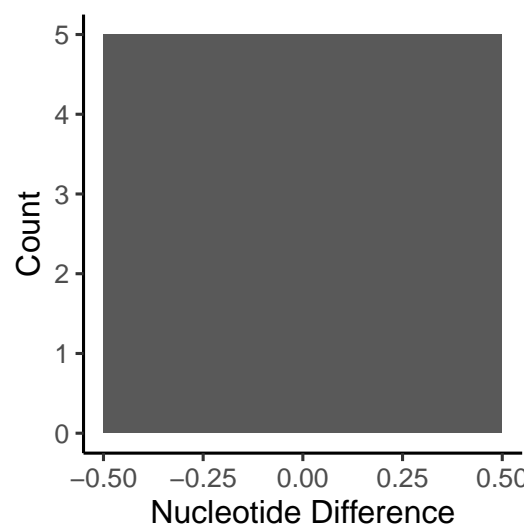
IGHV2–70*11_15

78 sequences assigned
23 (29.5%) exact matches, in which:
15 unique CDR3
3 unique J



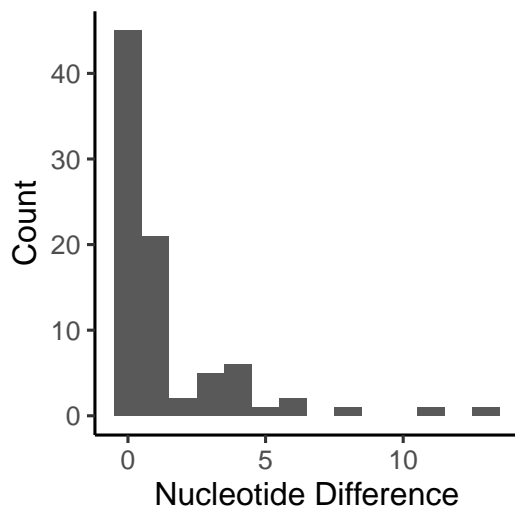
IGHV3–9*01

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



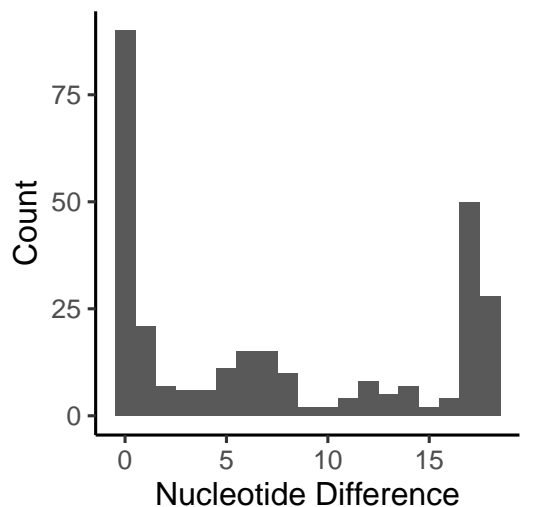
IGHV2–5*02

85 sequences assigned
45 (52.9%) exact matches, in which:
38 unique CDR3
6 unique J



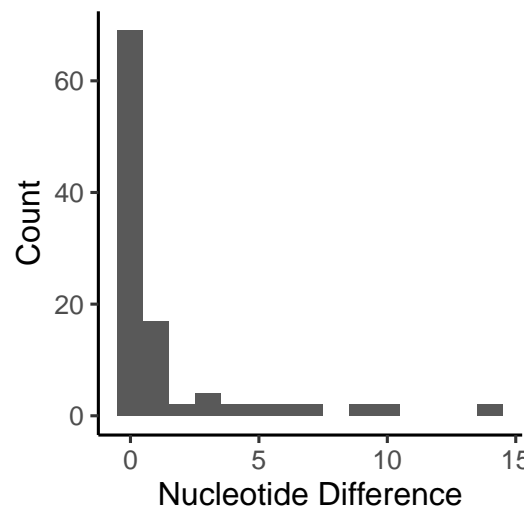
IGHV3–7*01

363 sequences assigned
90 (24.8%) exact matches, in which:
61 unique CDR3
6 unique J



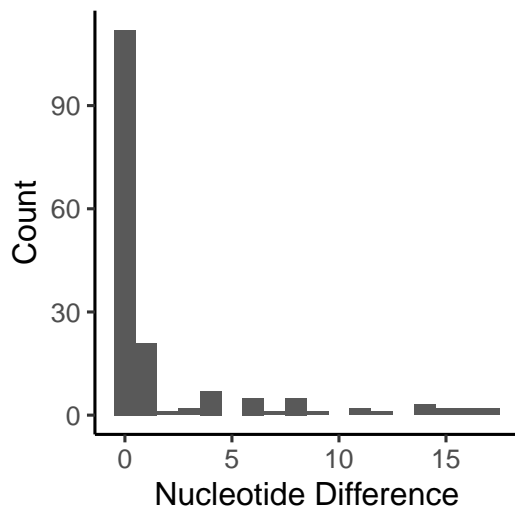
IGHV3–11*06

106 sequences assigned
69 (65.1%) exact matches, in which:
46 unique CDR3
5 unique J



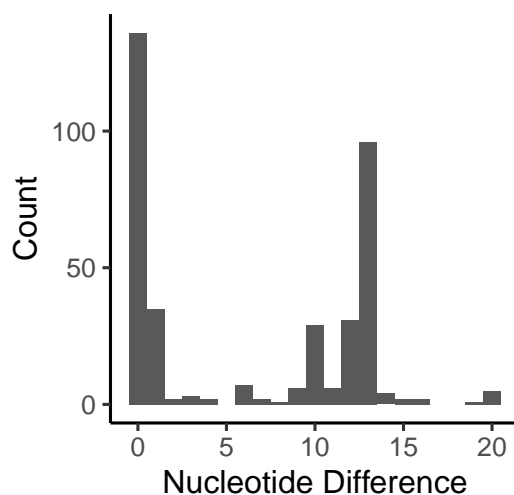
IGHV3-11*06_T300C

167 sequences assigned
112 (67.1%) exact matches, in which:
59 unique CDR3
5 unique J



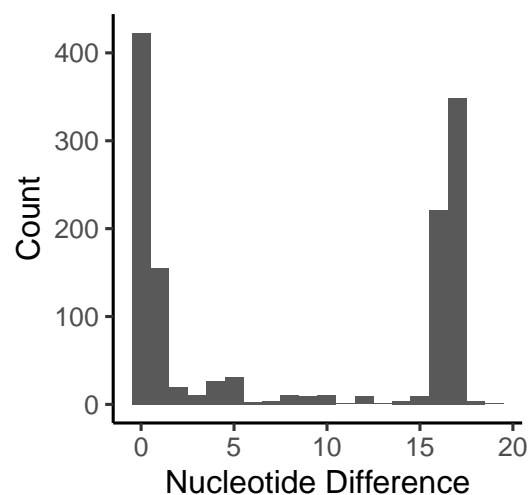
IGHV3-15*01_02

448 sequences assigned
136 (30.4%) exact matches, in which:
79 unique CDR3
6 unique J



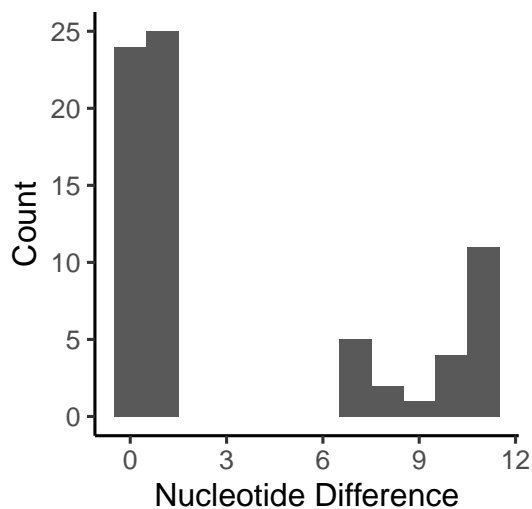
IGHV3-21*01_02

1308 sequences assigned
423 (32.3%) exact matches, in which:
203 unique CDR3
7 unique J



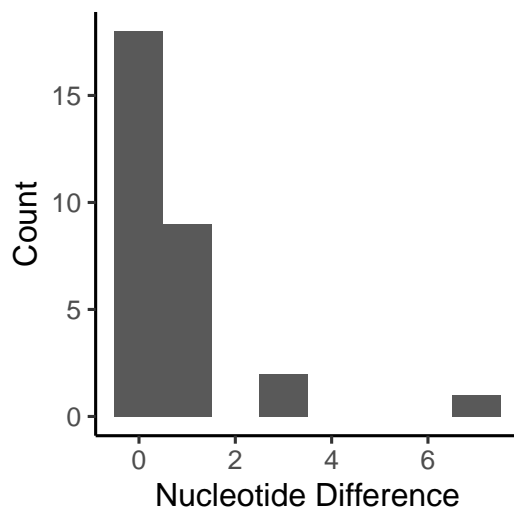
IGHV3-13*04

72 sequences assigned
24 (33.3%) exact matches, in which:
12 unique CDR3
3 unique J



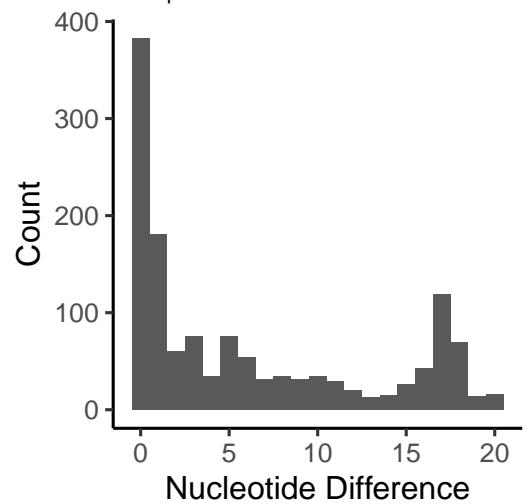
IGHV3-20*01_02

30 sequences assigned
18 (60%) exact matches, in which:
8 unique CDR3
3 unique J



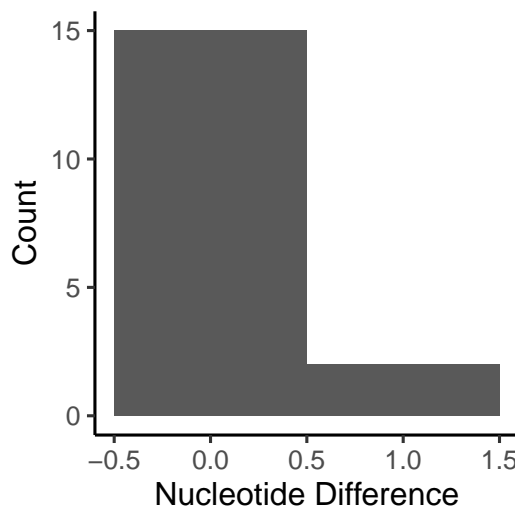
IGHV3-23*01_04

2713 sequences assigned
383 (14.1%) exact matches, in which:
197 unique CDR3
7 unique J



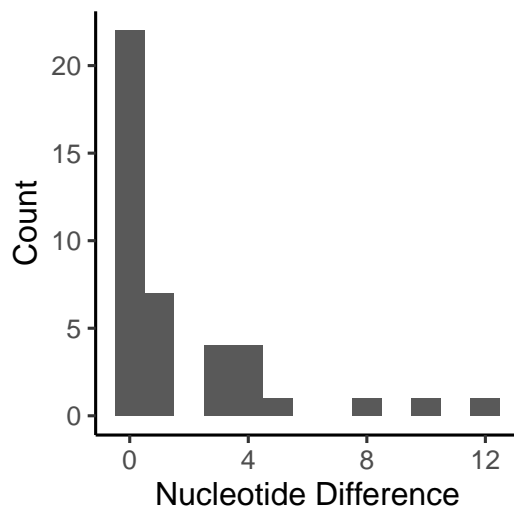
IGHV3-13*05

17 sequences assigned
15 (88.2%) exact matches, in which:
5 unique CDR3
3 unique J



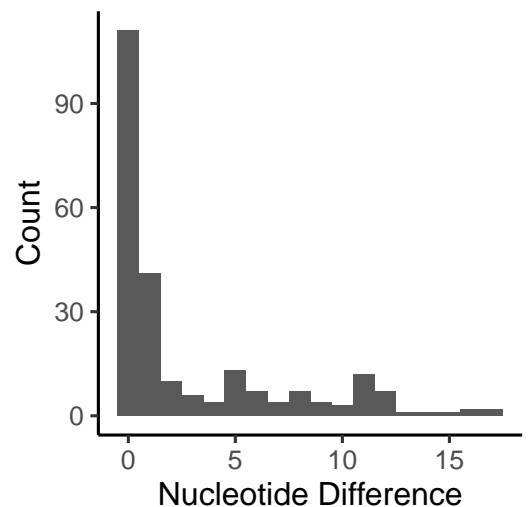
IGHV3-20*03_04

41 sequences assigned
22 (53.7%) exact matches, in which:
14 unique CDR3
4 unique J



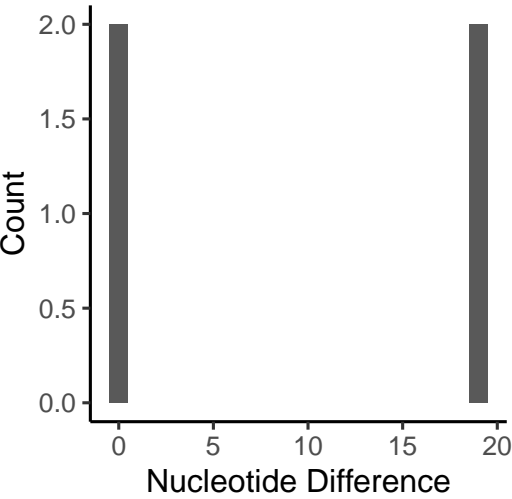
IGHV3-30*01

276 sequences assigned
111 (40.2%) exact matches, in which:
60 unique CDR3
6 unique J



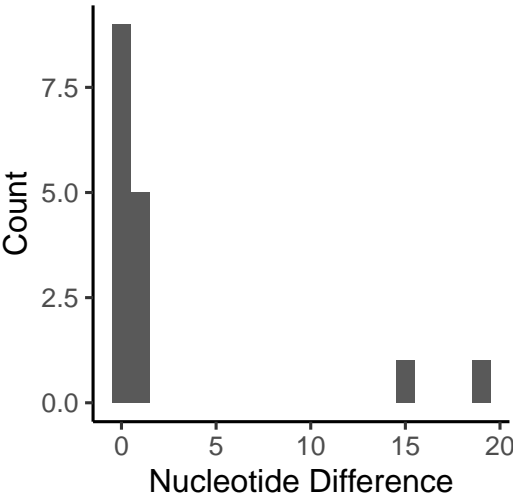
IGHV3-30-3*01

18 sequences assigned
2 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



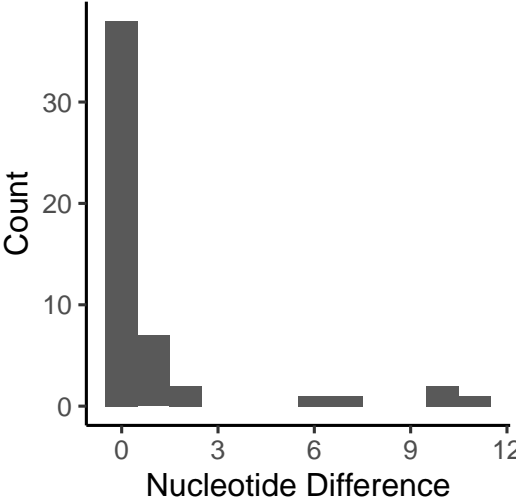
IGHV3-43*01

36 sequences assigned
9 (25%) exact matches, in which:
4 unique CDR3
2 unique J



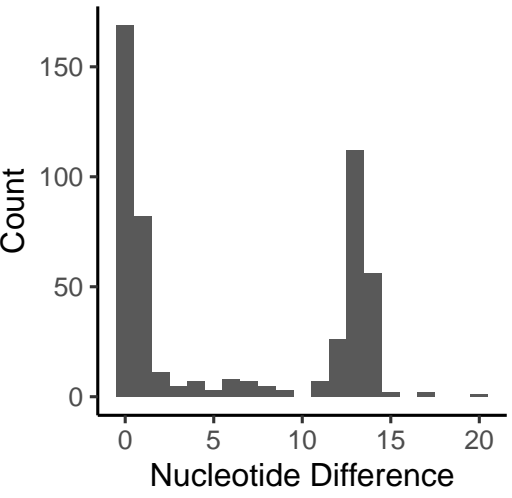
IGHV3-49*03_05

52 sequences assigned
38 (73.1%) exact matches, in which:
22 unique CDR3
6 unique J



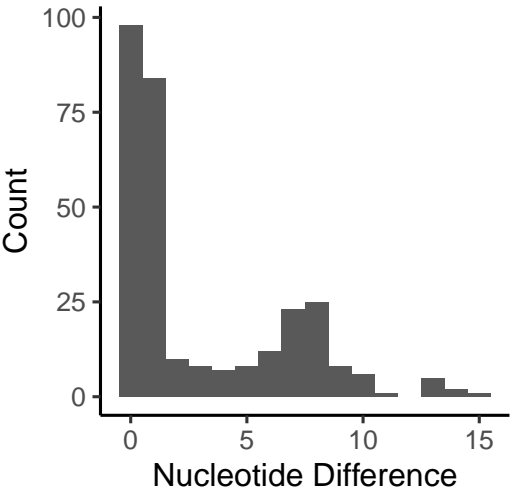
IGHV3-33*01

590 sequences assigned
169 (28.6%) exact matches, in which:
98 unique CDR3
6 unique J



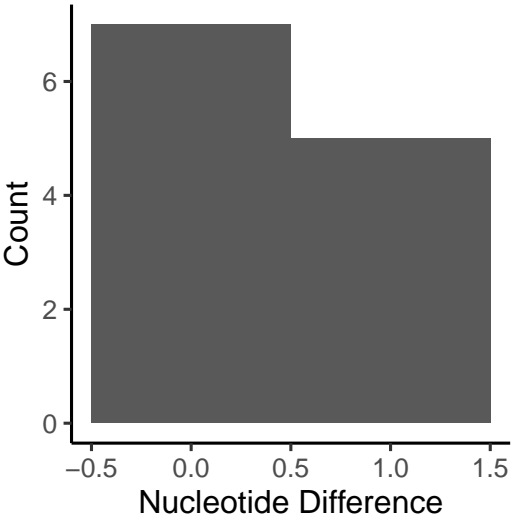
IGHV3-48*02

307 sequences assigned
98 (31.9%) exact matches, in which:
45 unique CDR3
6 unique J



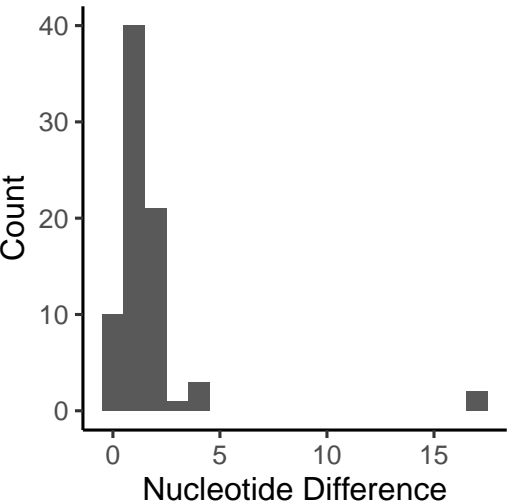
IGHV3-53*04

12 sequences assigned
7 (58.3%) exact matches, in which:
2 unique CDR3
1 unique J



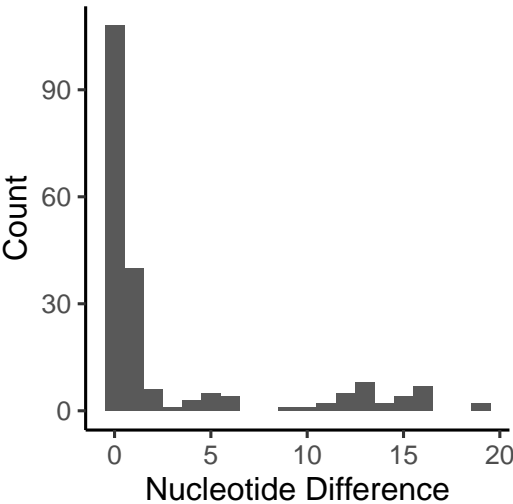
IGHV3-33*06

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



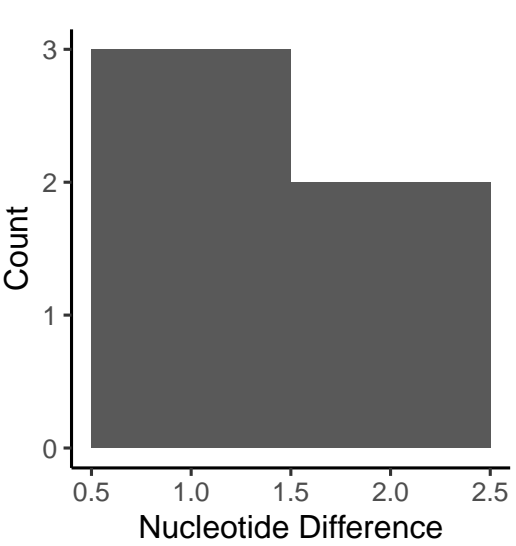
IGHV3-48*04

247 sequences assigned
108 (43.7%) exact matches, in which:
61 unique CDR3
6 unique J



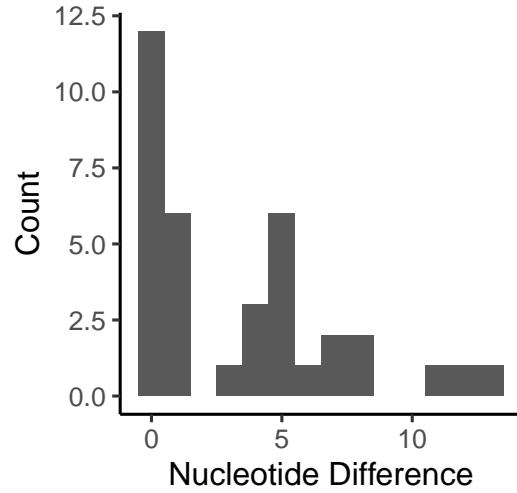
IGHV3-53*05

5 sequences assigned
No exact matches.



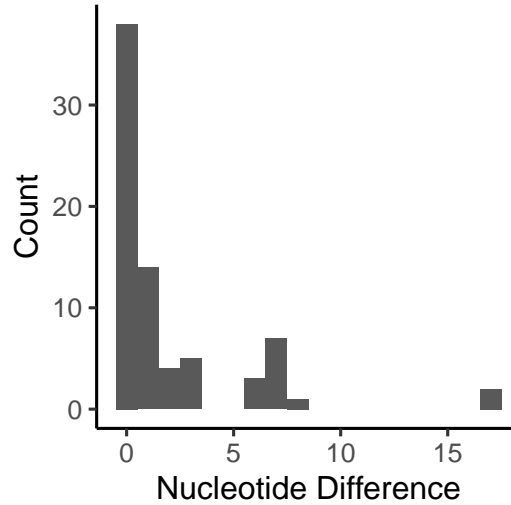
IGHV3-53*01_02

36 sequences assigned
12 (33.3%) exact matches, in which:
6 unique CDR3
3 unique J



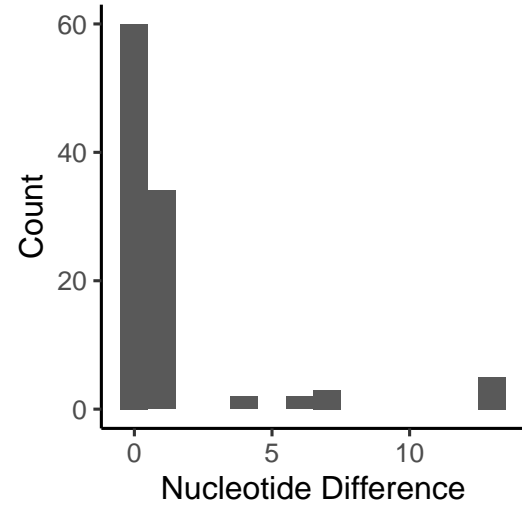
IGHV3-66*01

74 sequences assigned
38 (51.4%) exact matches, in which:
21 unique CDR3
4 unique J



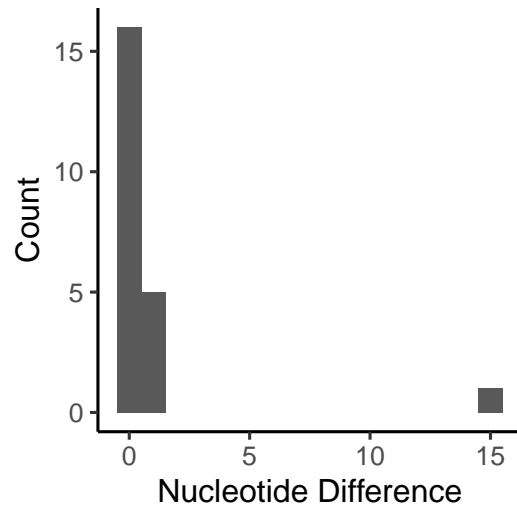
IGHV3-73*01_02

106 sequences assigned
60 (56.6%) exact matches, in which:
29 unique CDR3
4 unique J



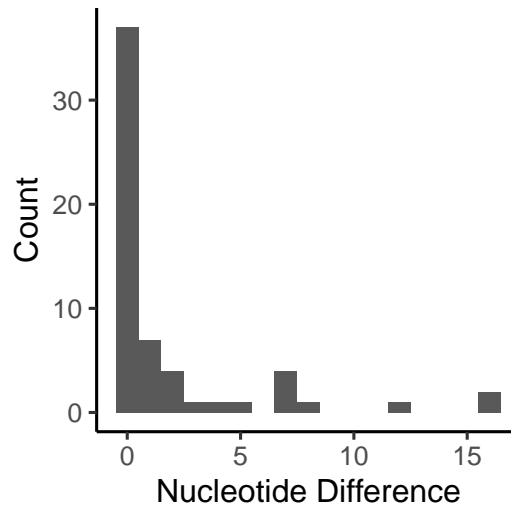
IGHV3-64*01

22 sequences assigned
16 (72.7%) exact matches, in which:
8 unique CDR3
4 unique J



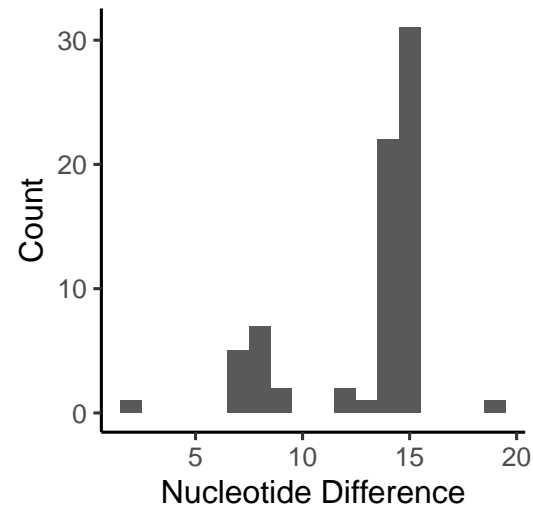
IGHV3-66*02

59 sequences assigned
37 (62.7%) exact matches, in which:
19 unique CDR3
7 unique J



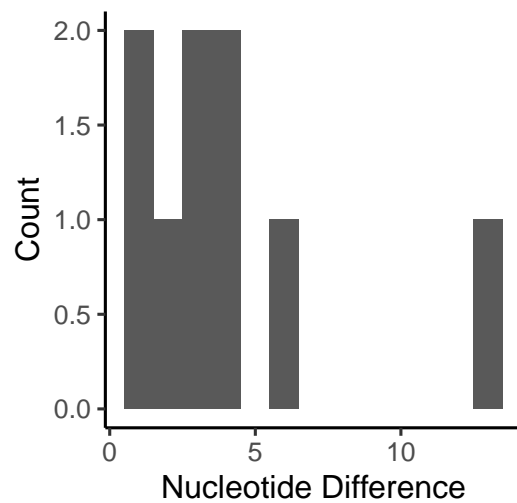
IGHV3-74*03

73 sequences assigned
No exact matches.



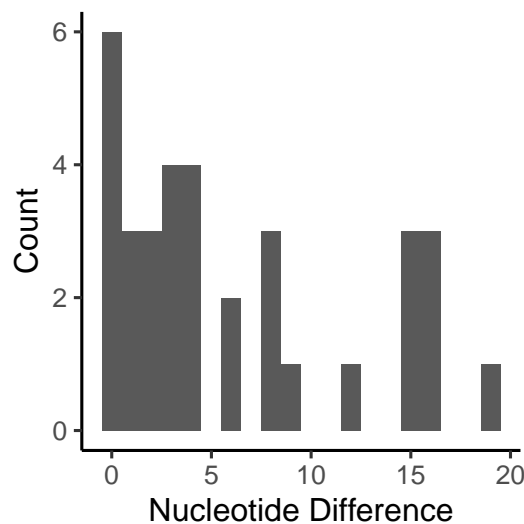
IGHV3-64*04

9 sequences assigned
No exact matches.



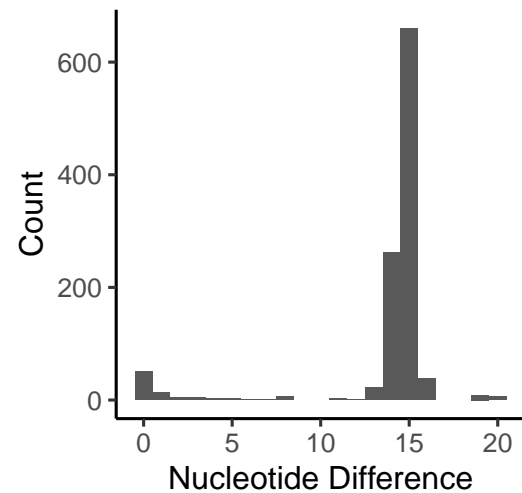
IGHV3-72*01

34 sequences assigned
6 (17.6%) exact matches, in which:
4 unique CDR3
3 unique J



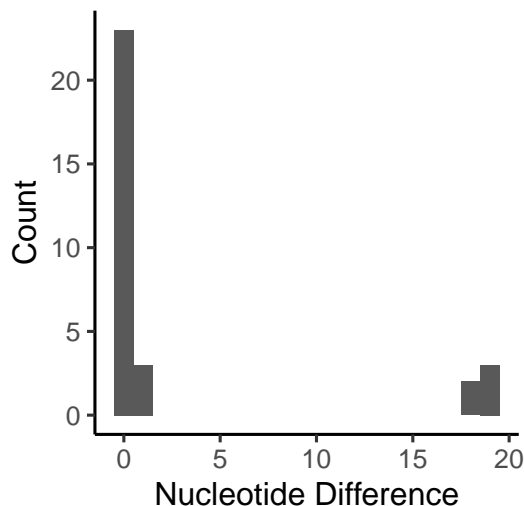
IGHV3-74*01_02

1091 sequences assigned
50 (4.6%) exact matches, in which:
26 unique CDR3
6 unique J



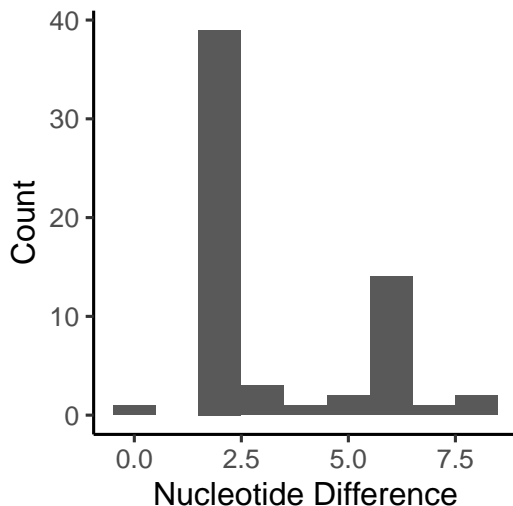
IGHV3-43D*03

31 sequences assigned
23 (74.2%) exact matches, in which:
12 unique CDR3
3 unique J



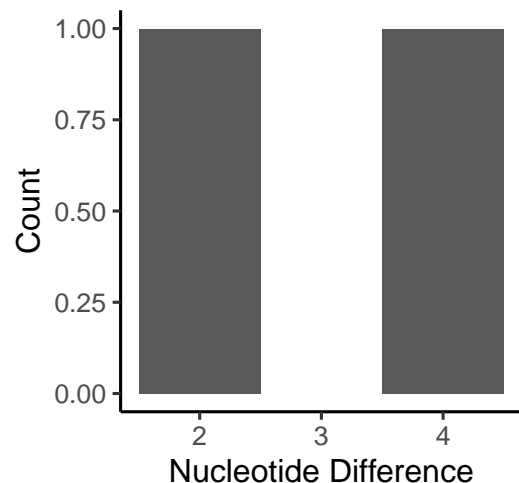
IGHV4-4*07

64 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



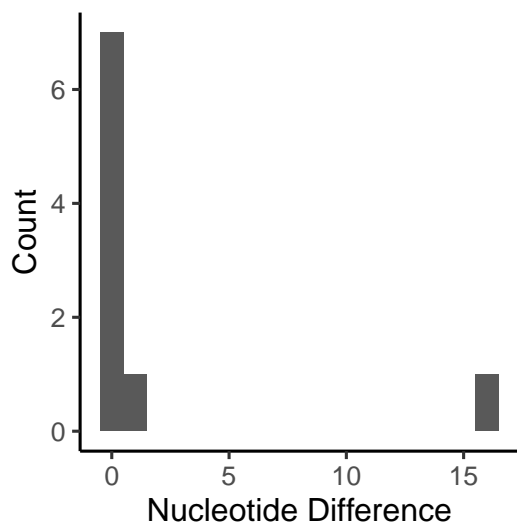
IGHV4-30-4*05

2 sequences assigned
No exact matches.



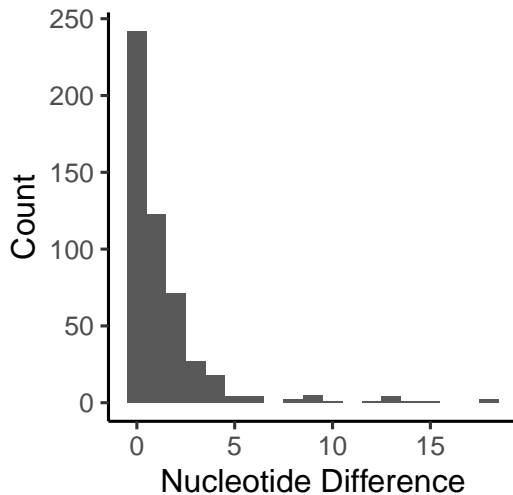
IGHV3-43D*04

9 sequences assigned
7 (77.8%) exact matches, in which:
4 unique CDR3
2 unique J



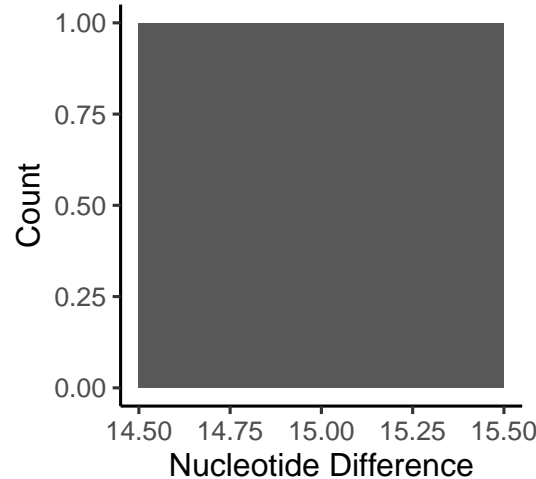
IGHV4-4*02_03

844 sequences assigned
242 (28.7%) exact matches, in which:
165 unique CDR3
6 unique J



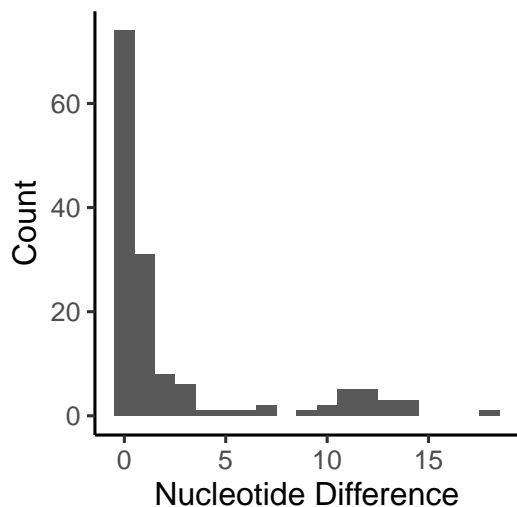
IGHV4-30-4*08

1 sequences assigned
No exact matches.



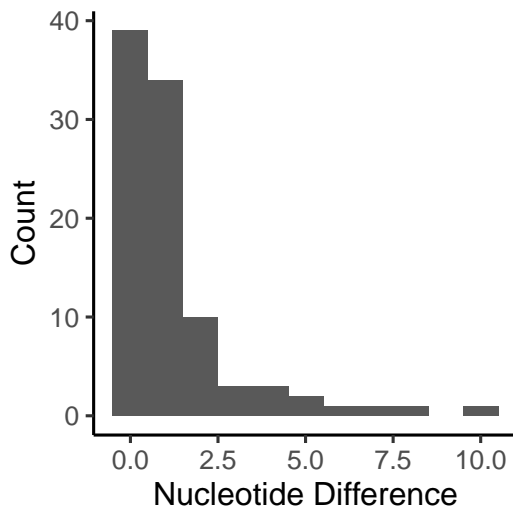
IGHV3-64D*06

163 sequences assigned
74 (45.4%) exact matches, in which:
34 unique CDR3
7 unique J



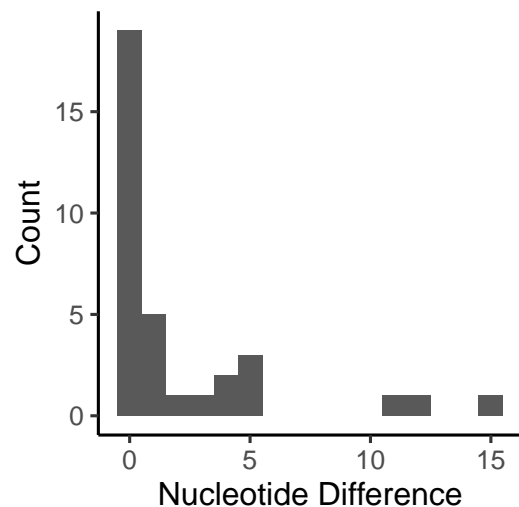
IGHV4-30-2*01

95 sequences assigned
39 (41.1%) exact matches, in which:
22 unique CDR3
4 unique J



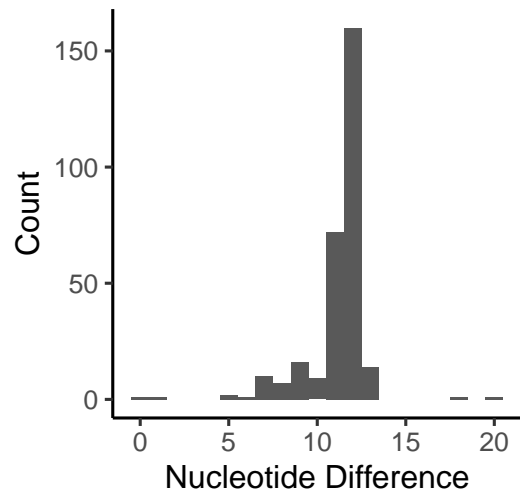
IGHV4-31*01

35 sequences assigned
19 (54.3%) exact matches, in which:
19 unique CDR3
5 unique J



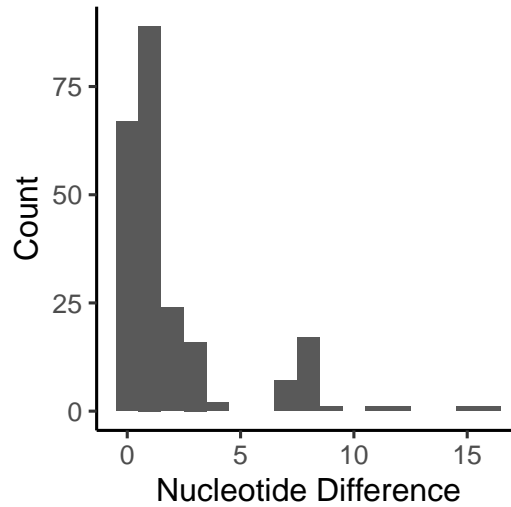
IGHV4-31*02

737 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



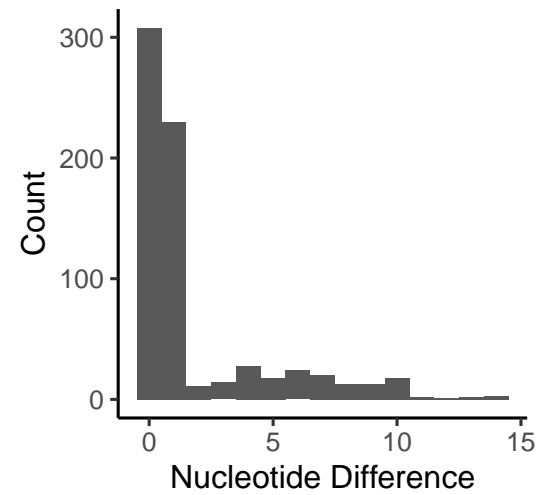
IGHV4-34*01_02_T300C

227 sequences assigned
67 (29.5%) exact matches, in which:
66 unique CDR3
7 unique J



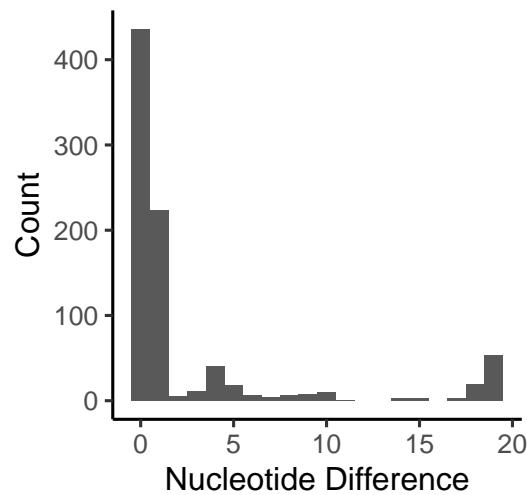
IGHV4-39*07

845 sequences assigned
308 (36.4%) exact matches, in which:
229 unique CDR3
7 unique J



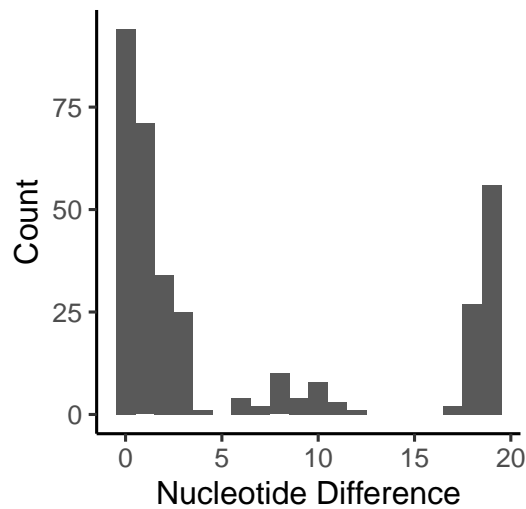
IGHV4-34*01_02

850 sequences assigned
436 (51.3%) exact matches, in which:
267 unique CDR3
7 unique J



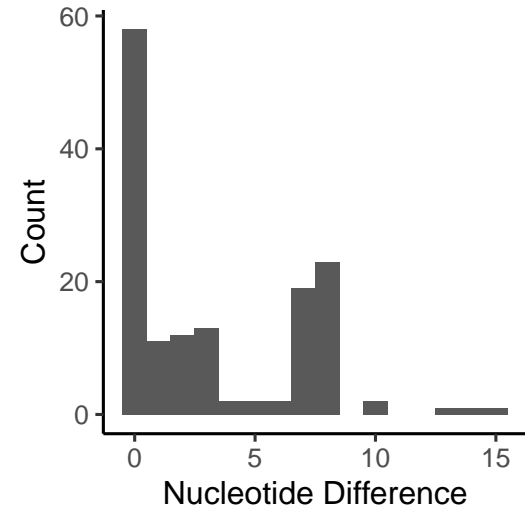
IGHV4-38-2*02

342 sequences assigned
94 (27.5%) exact matches, in which:
76 unique CDR3
7 unique J



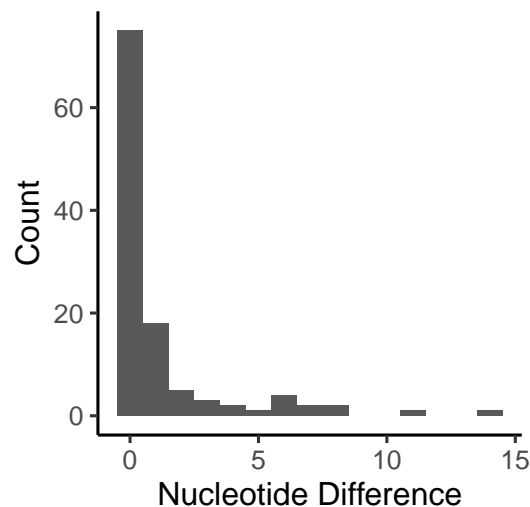
IGHV4-39*07_G291A

147 sequences assigned
58 (39.5%) exact matches, in which:
58 unique CDR3
7 unique J



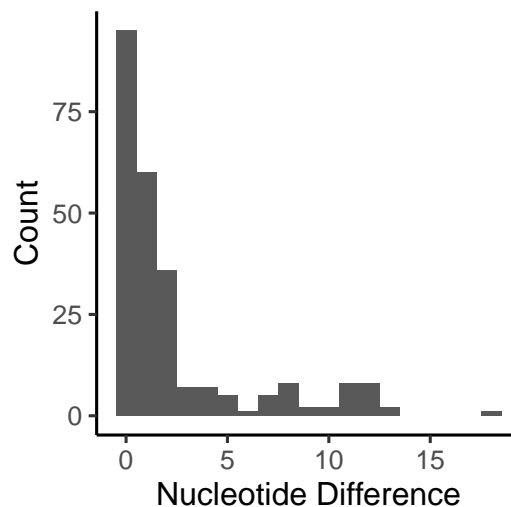
IGHV4-34*01_02_G291A_

114 sequences assigned
75 (65.8%) exact matches, in which:
72 unique CDR3
7 unique J



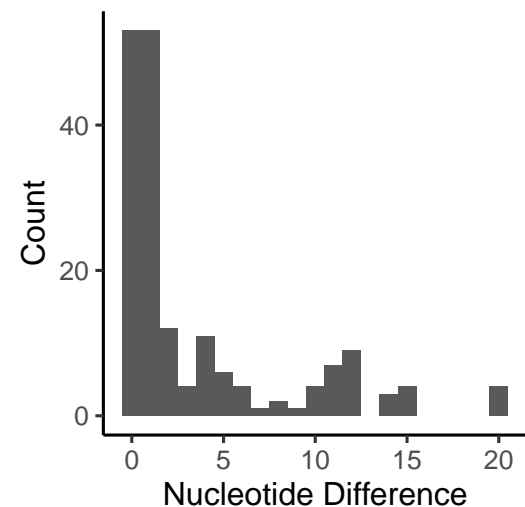
IGHV4-38-2*02_A70G

247 sequences assigned
95 (38.5%) exact matches, in which:
85 unique CDR3
7 unique J



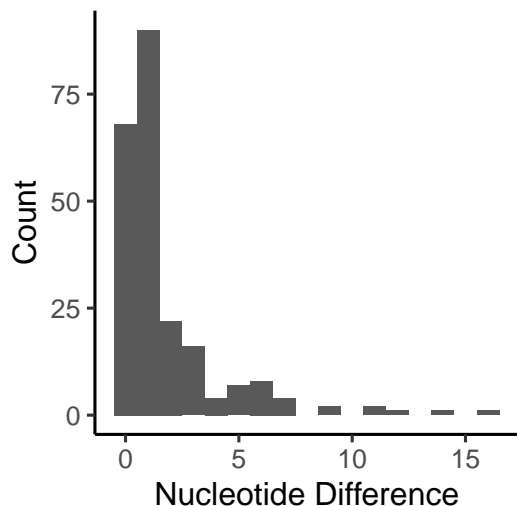
IGHV4-59*08

268 sequences assigned
53 (19.8%) exact matches, in which:
36 unique CDR3
5 unique J



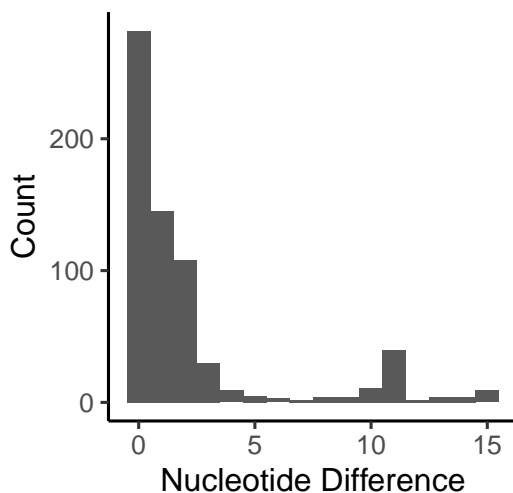
IGHV4-59*12

254 sequences assigned
68 (26.8%) exact matches, in which:
68 unique CDR3
7 unique J



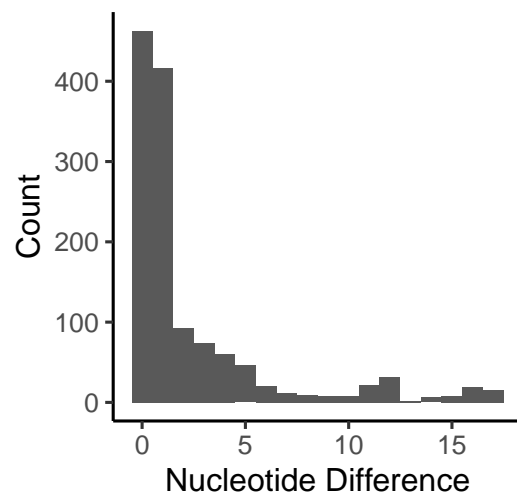
IGHV4-61*02

663 sequences assigned
282 (42.5%) exact matches, in which:
233 unique CDR3
7 unique J



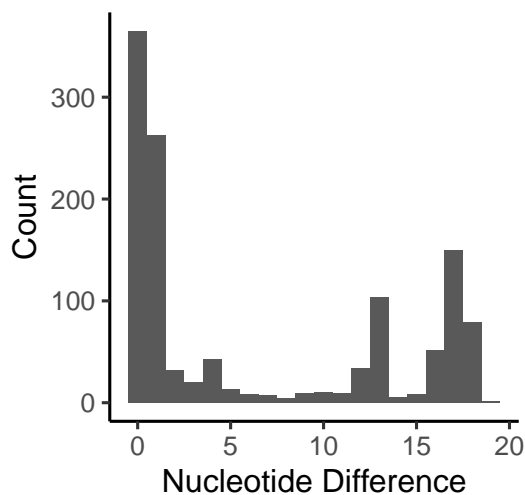
IGHV5-51*07_A128G

1314 sequences assigned
463 (35.2%) exact matches, in which:
237 unique CDR3
6 unique J



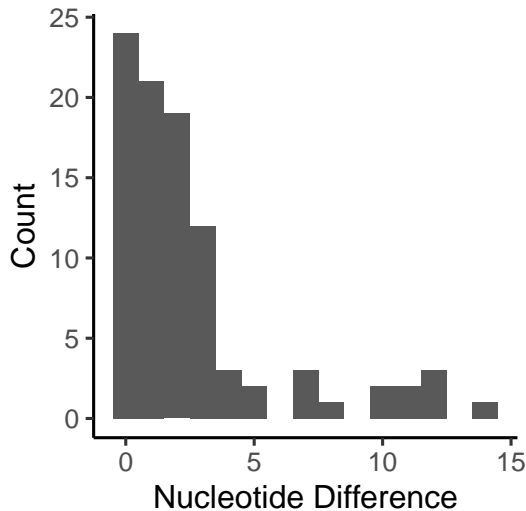
IGHV4-59*02_G88A

1218 sequences assigned
365 (30%) exact matches, in which:
275 unique CDR3
7 unique J



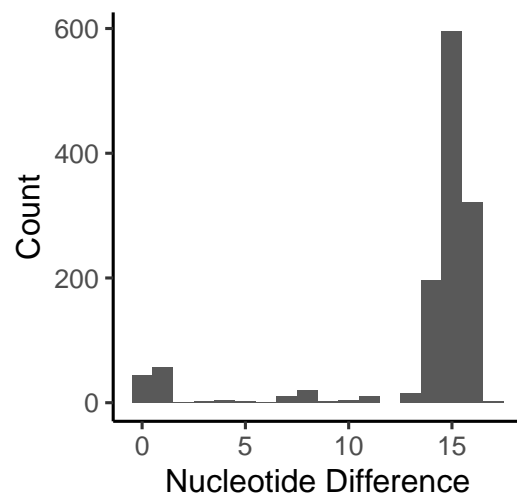
IGHV4-61*01_G88A

93 sequences assigned
24 (25.8%) exact matches, in which:
24 unique CDR3
6 unique J



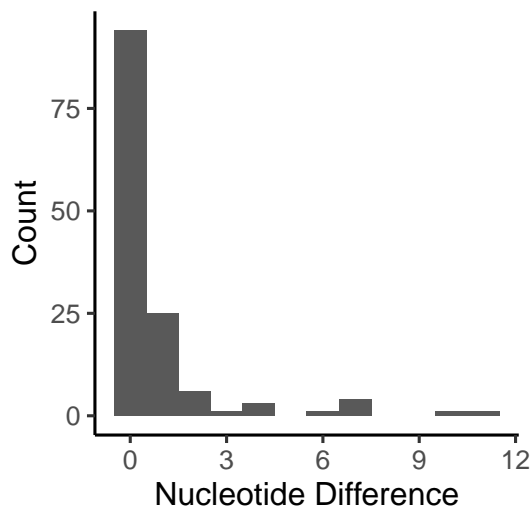
IGHV6-1*01_02

1291 sequences assigned
44 (3.4%) exact matches, in which:
31 unique CDR3
6 unique J



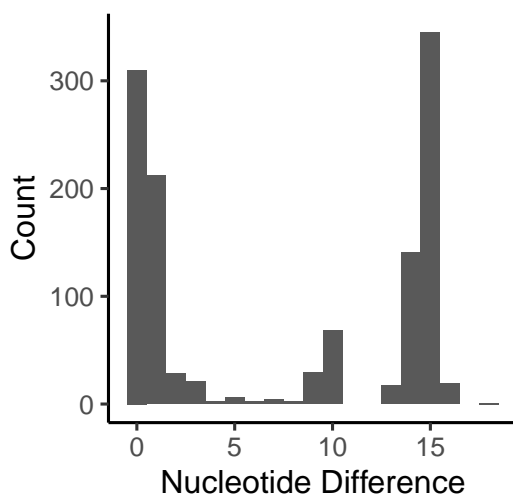
IGHV4-59*12_G291A

136 sequences assigned
94 (69.1%) exact matches, in which:
89 unique CDR3
7 unique J



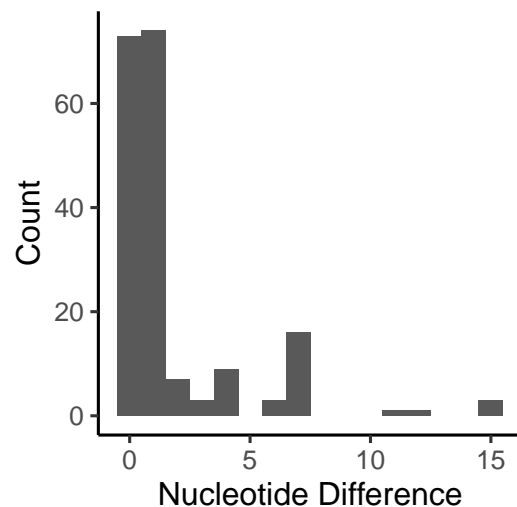
IGHV5-10-1*01_03

1207 sequences assigned
310 (25.7%) exact matches, in which:
182 unique CDR3
6 unique J

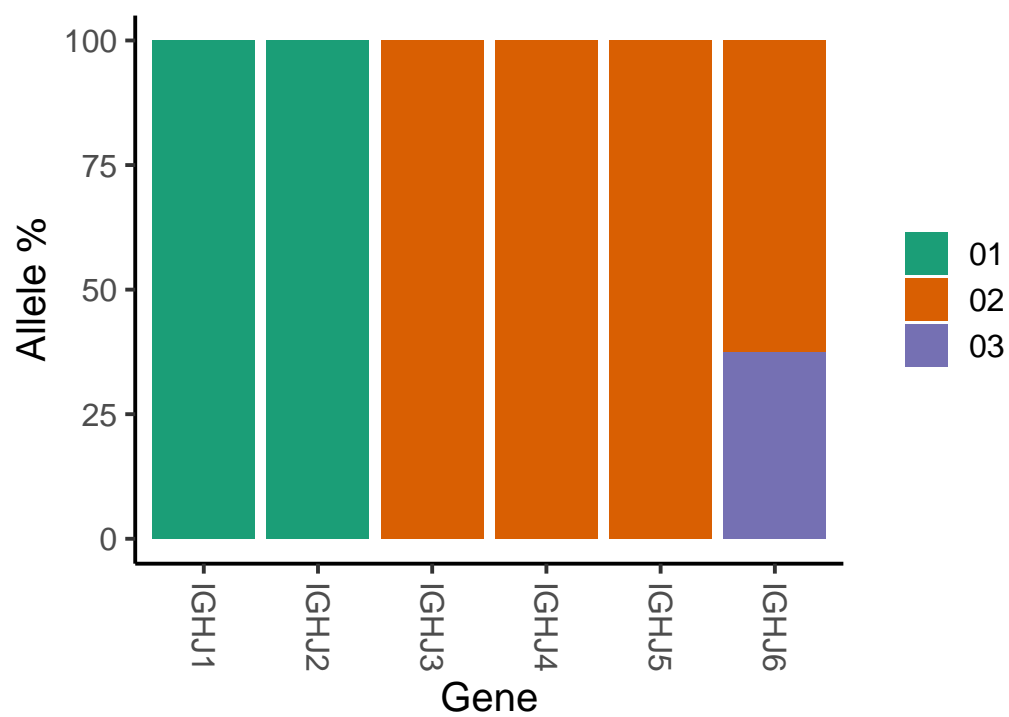


IGHV7-4-1*02

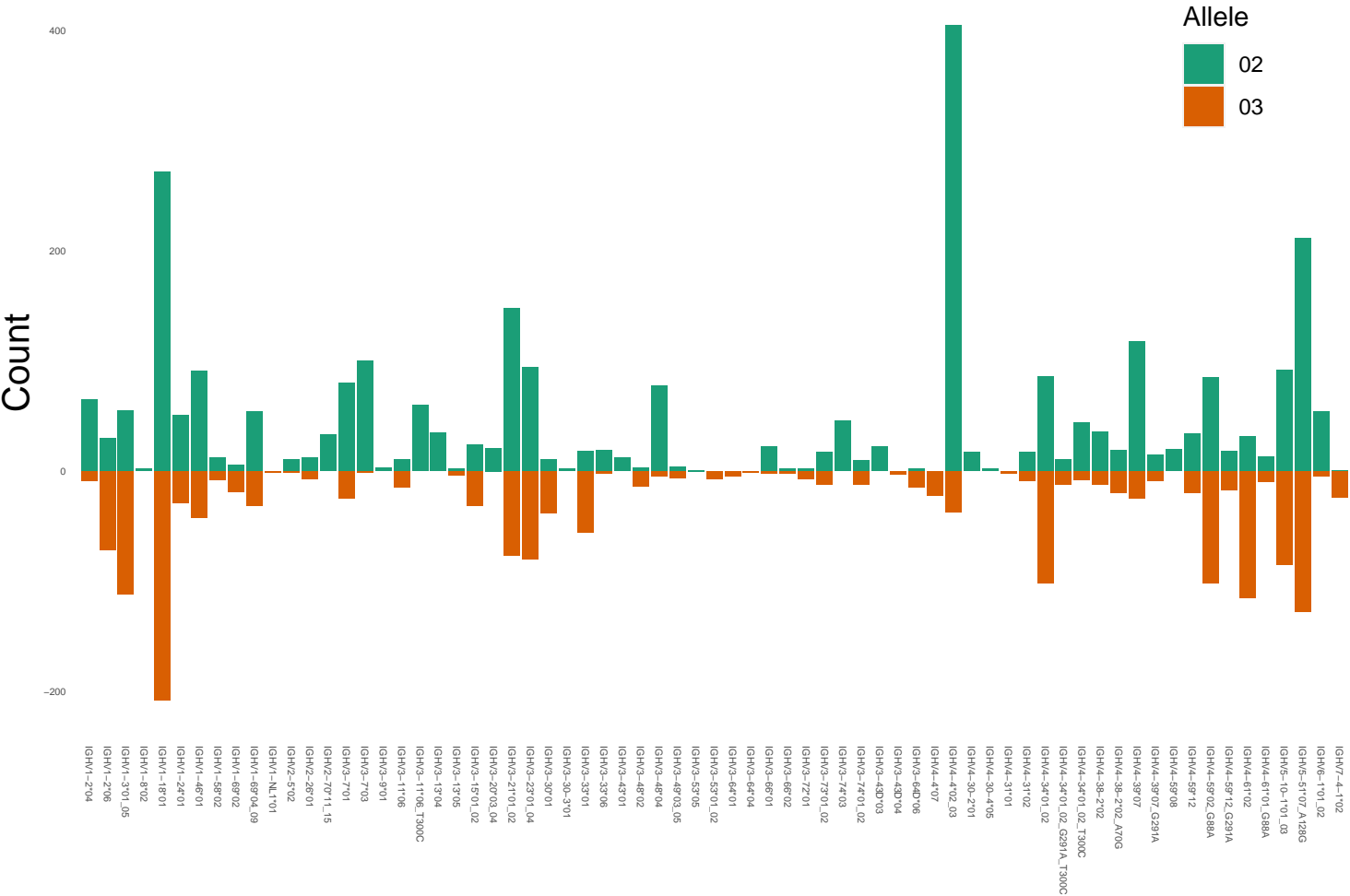
190 sequences assigned
73 (38.4%) exact matches, in which:
56 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.