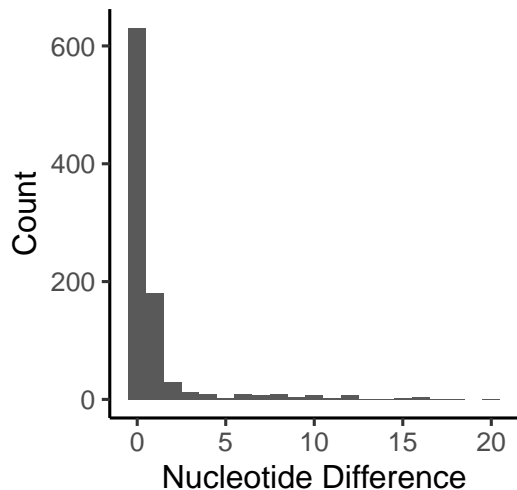


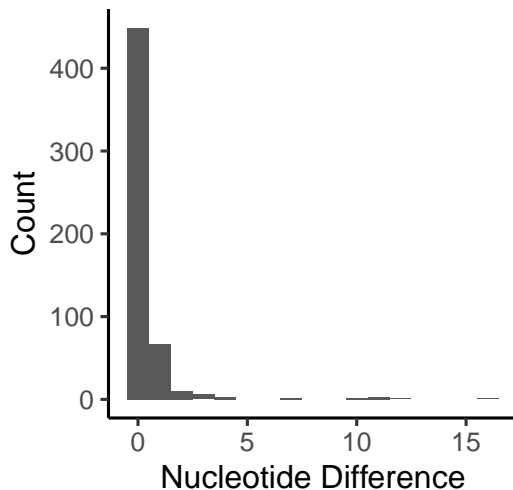
IGHV1-2*02

931 sequences assigned
631 (67.8%) exact matches, in which:
619 unique CDR3
6 unique J



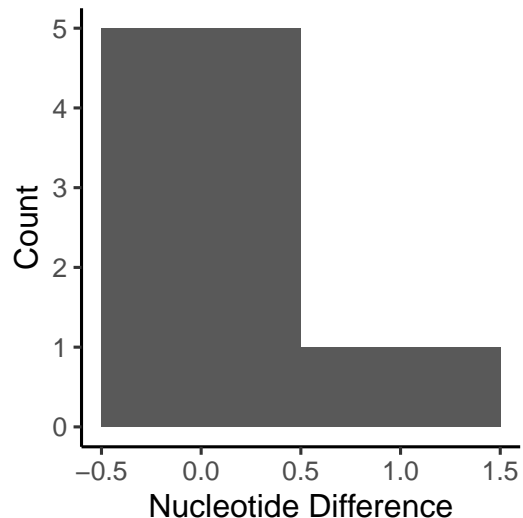
IGHV1-8*01

544 sequences assigned
449 (82.5%) exact matches, in which:
442 unique CDR3
7 unique J



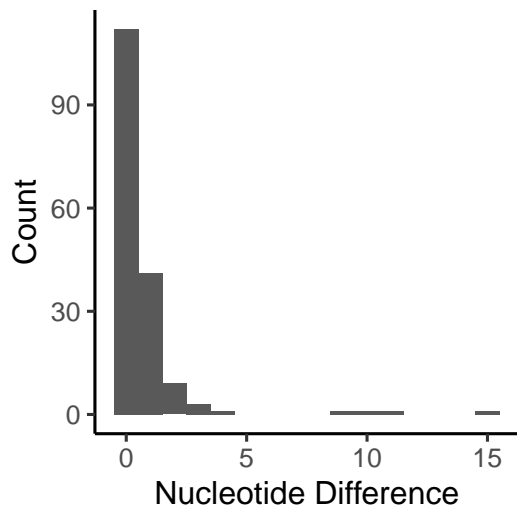
IGHV1-45*02

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



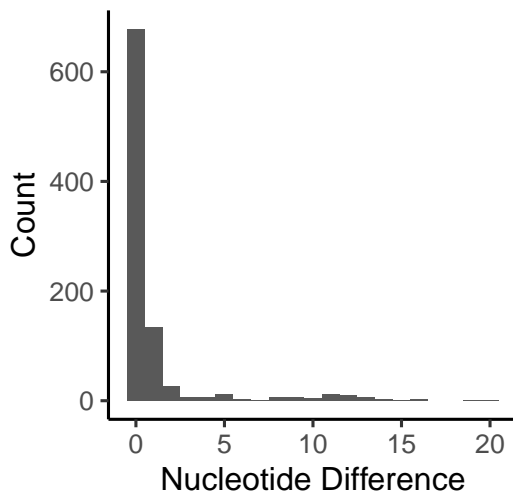
IGHV1-2*04

170 sequences assigned
112 (65.9%) exact matches, in which:
110 unique CDR3
6 unique J



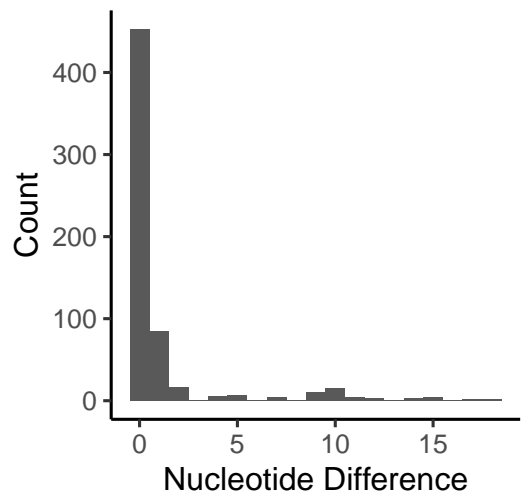
IGHV1-18*01

926 sequences assigned
678 (73.2%) exact matches, in which:
670 unique CDR3
7 unique J



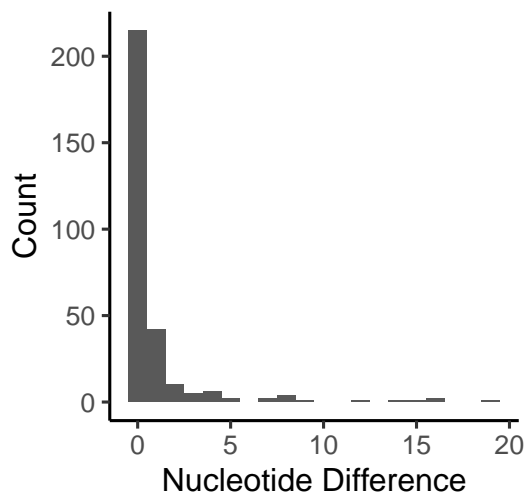
IGHV1-46*01

624 sequences assigned
453 (72.6%) exact matches, in which:
446 unique CDR3
7 unique J



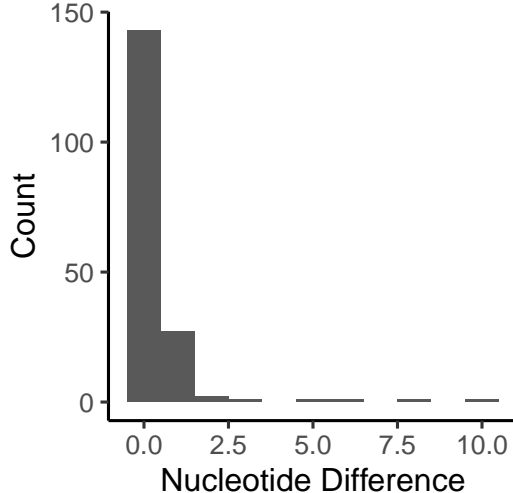
IGHV1-3*01

295 sequences assigned
215 (72.9%) exact matches, in which:
213 unique CDR3
6 unique J



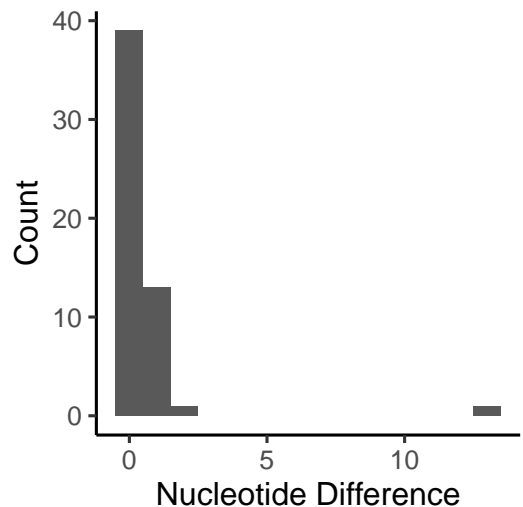
IGHV1-24*01

177 sequences assigned
143 (80.8%) exact matches, in which:
141 unique CDR3
7 unique J



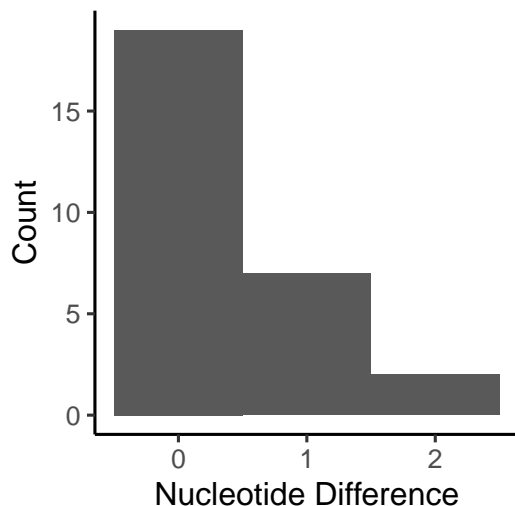
IGHV1-58*01

54 sequences assigned
39 (72.2%) exact matches, in which:
39 unique CDR3
5 unique J



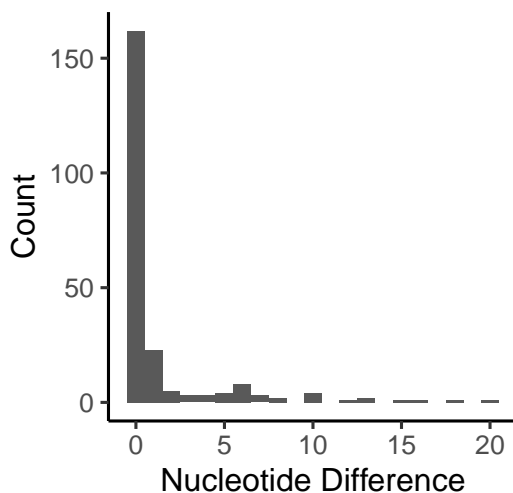
IGHV1-58*02

28 sequences assigned
19 (67.9%) exact matches, in which:
19 unique CDR3
4 unique J



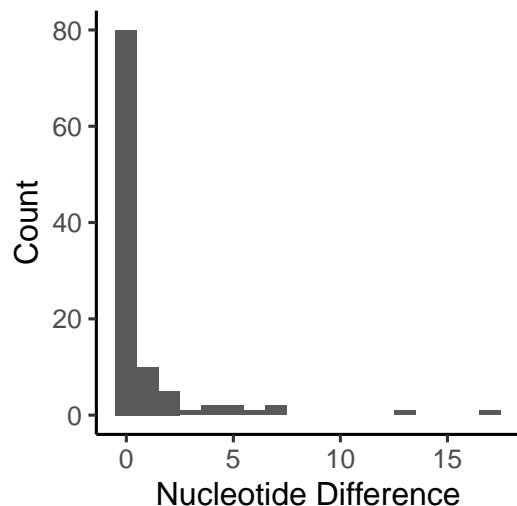
IGHV2-5*02

226 sequences assigned
162 (71.7%) exact matches, in which:
158 unique CDR3
6 unique J



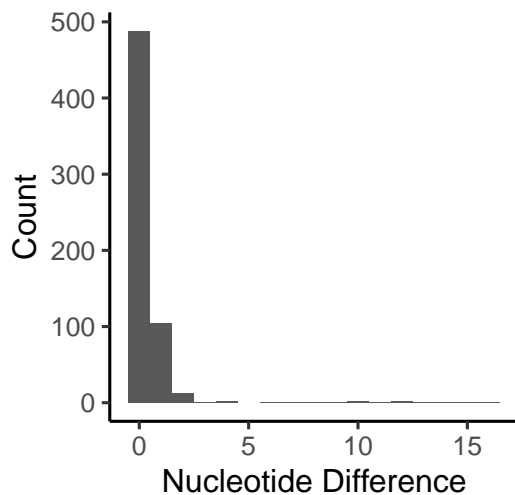
IGHV2-70*15

109 sequences assigned
80 (73.4%) exact matches, in which:
79 unique CDR3
4 unique J



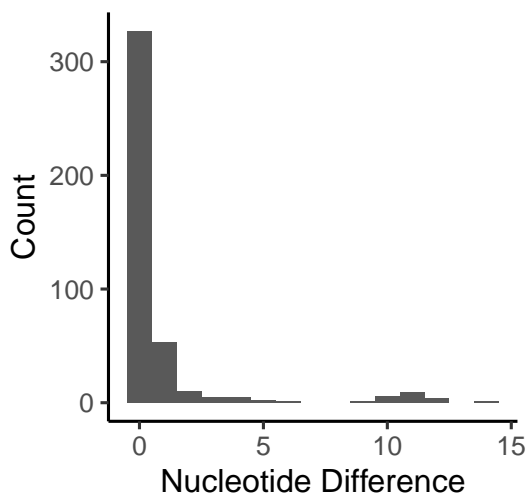
IGHV1-69*04

626 sequences assigned
488 (78%) exact matches, in which:
480 unique CDR3
6 unique J



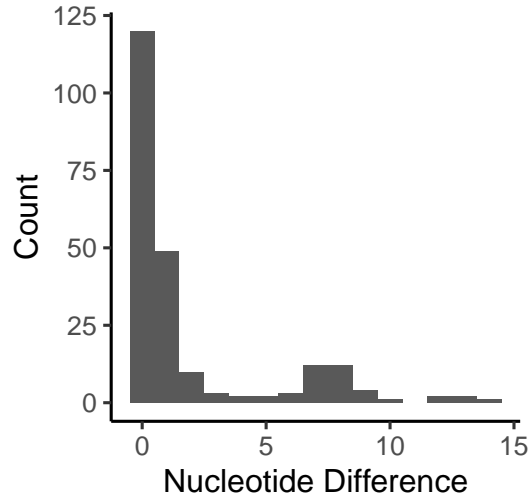
IGHV2-26*01

424 sequences assigned
327 (77.1%) exact matches, in which:
320 unique CDR3
7 unique J



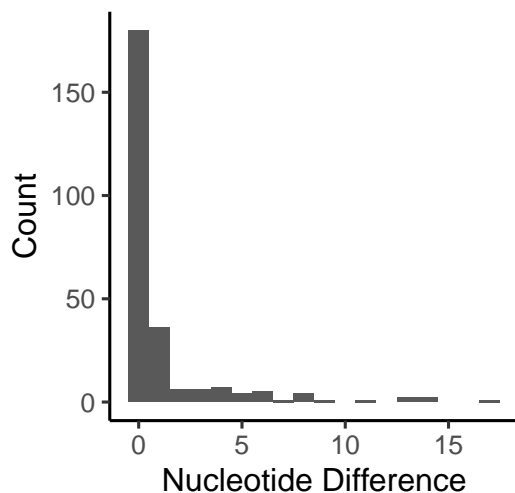
IGHV3-7*01

223 sequences assigned
120 (53.8%) exact matches, in which:
118 unique CDR3
6 unique J



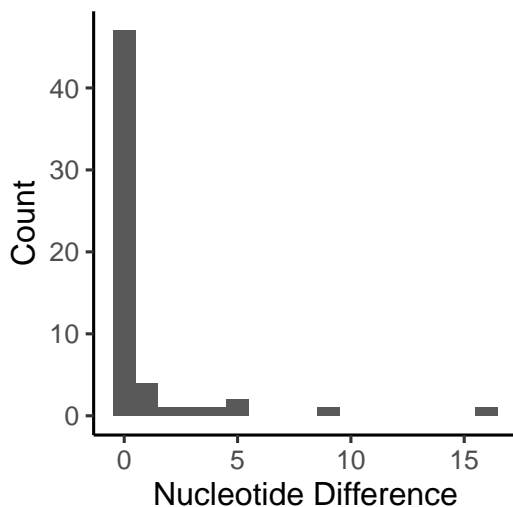
IGHV2-5*01

256 sequences assigned
180 (70.3%) exact matches, in which:
177 unique CDR3
6 unique J



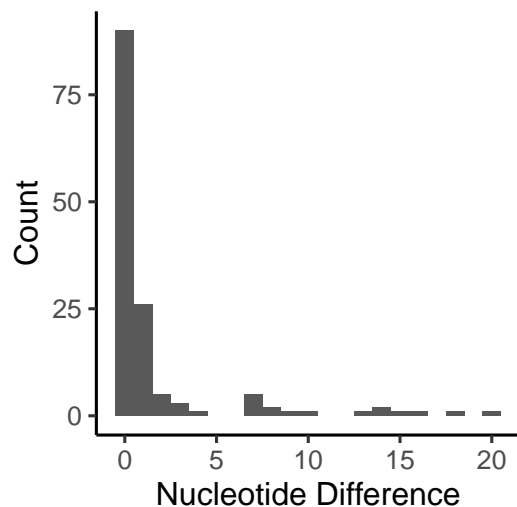
IGHV2-70*01

59 sequences assigned
47 (79.7%) exact matches, in which:
47 unique CDR3
5 unique J



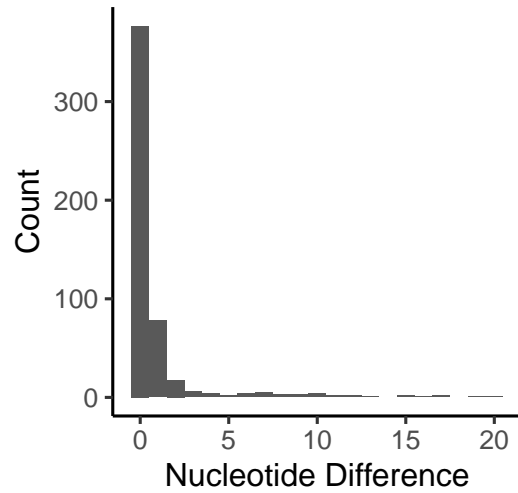
IGHV3-7*03

142 sequences assigned
90 (63.4%) exact matches, in which:
90 unique CDR3
5 unique J



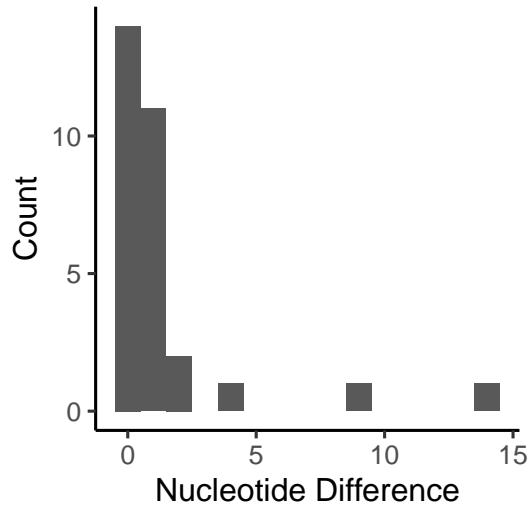
IGHV3-9*01

517 sequences assigned
377 (72.9%) exact matches, in which:
372 unique CDR3
6 unique J



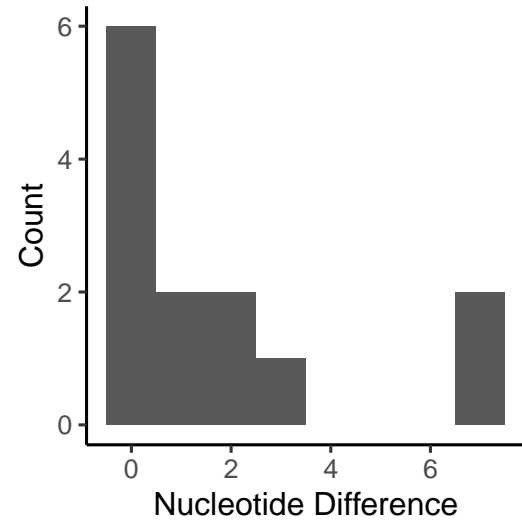
IGHV3-13*01

30 sequences assigned
14 (46.7%) exact matches, in which:
14 unique CDR3
4 unique J



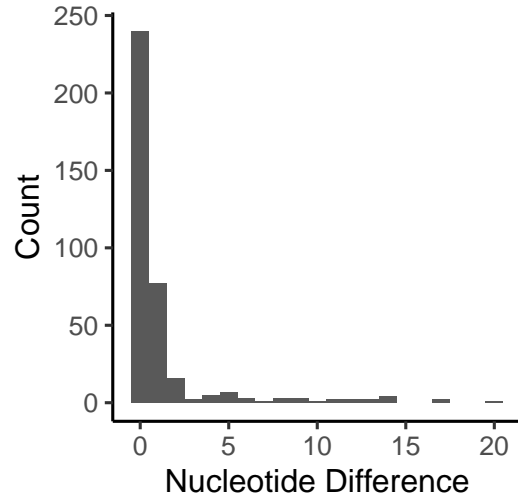
IGHV3-20*01

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
3 unique J



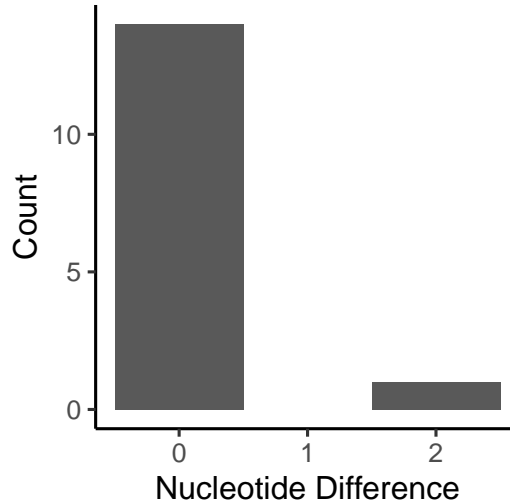
IGHV3-11*01

377 sequences assigned
240 (63.7%) exact matches, in which:
236 unique CDR3
6 unique J



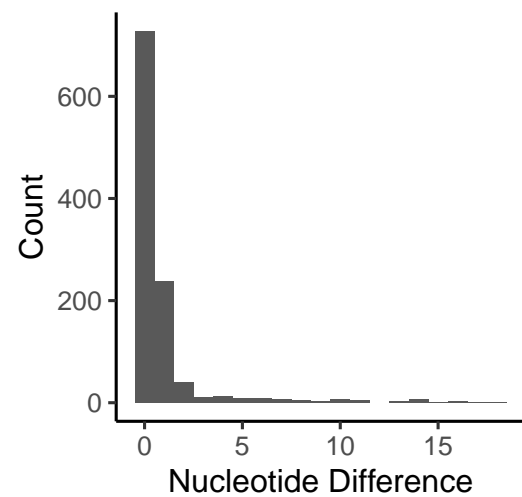
IGHV3-13*05

15 sequences assigned
14 (93.3%) exact matches, in which:
14 unique CDR3
5 unique J



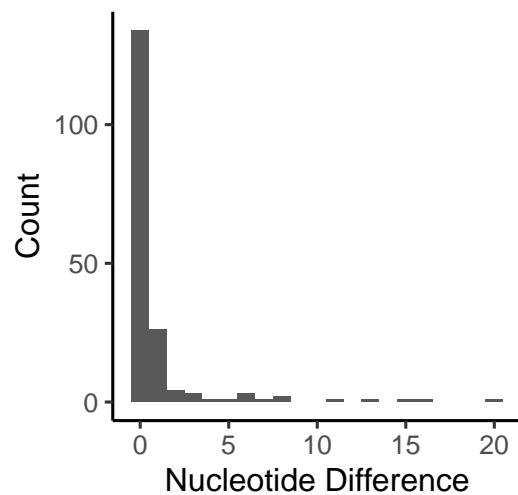
IGHV3-21*01

1086 sequences assigned
728 (67%) exact matches, in which:
716 unique CDR3
7 unique J



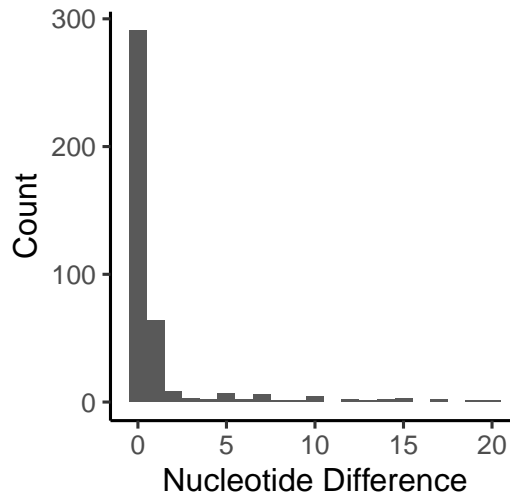
IGHV3-11*06

181 sequences assigned
134 (74%) exact matches, in which:
131 unique CDR3
6 unique J



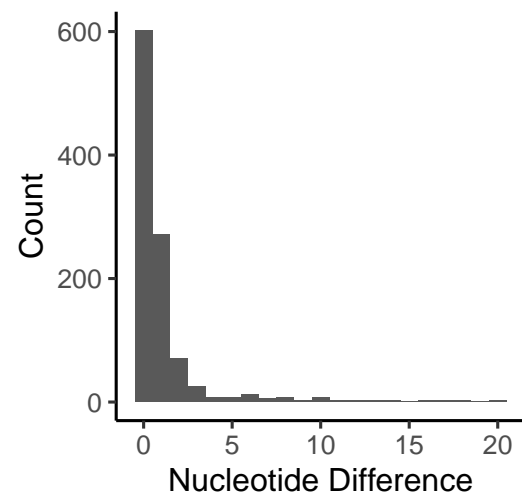
IGHV3-15*01

412 sequences assigned
291 (70.6%) exact matches, in which:
285 unique CDR3
7 unique J



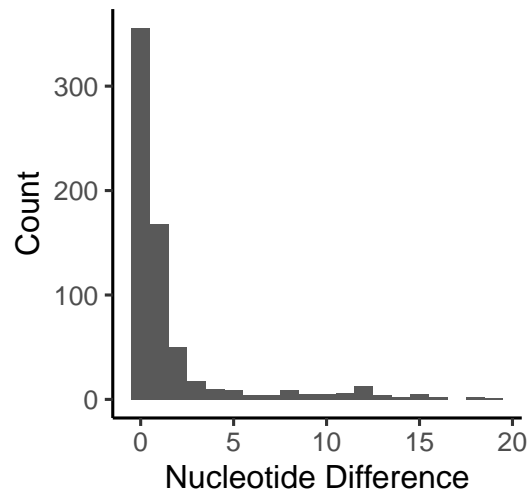
IGHV3-30-3*01

1047 sequences assigned
602 (57.5%) exact matches, in which:
594 unique CDR3
7 unique J



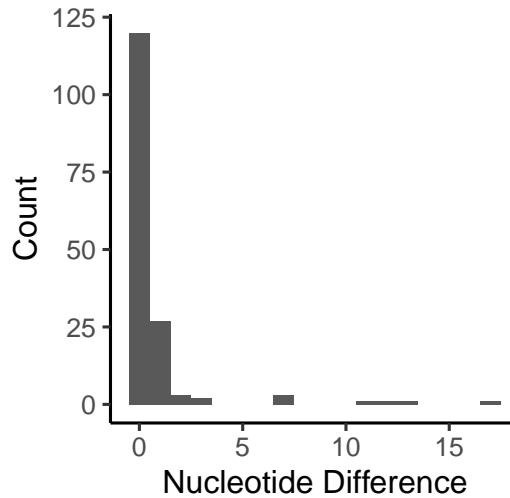
IGHV3-33*01

676 sequences assigned
356 (52.7%) exact matches, in which:
355 unique CDR3
7 unique J



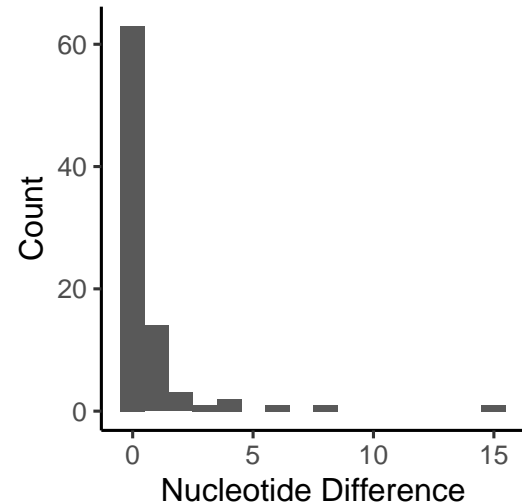
IGHV3-48*02

160 sequences assigned
120 (75%) exact matches, in which:
120 unique CDR3
6 unique J



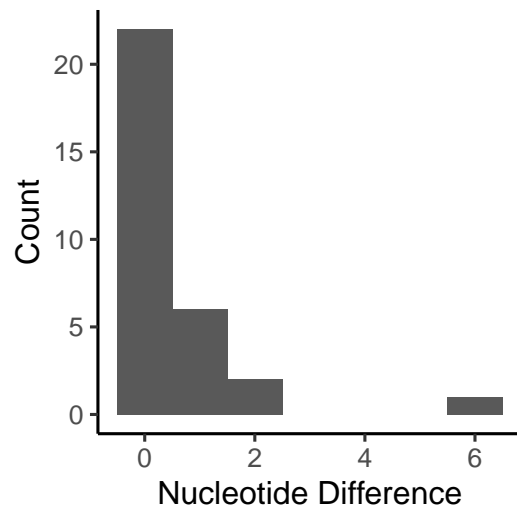
IGHV3-49*05

86 sequences assigned
63 (73.3%) exact matches, in which:
63 unique CDR3
6 unique J



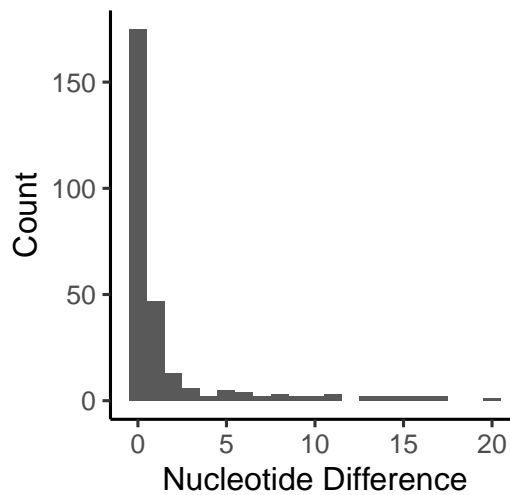
IGHV3-43*01

31 sequences assigned
22 (71%) exact matches, in which:
22 unique CDR3
5 unique J



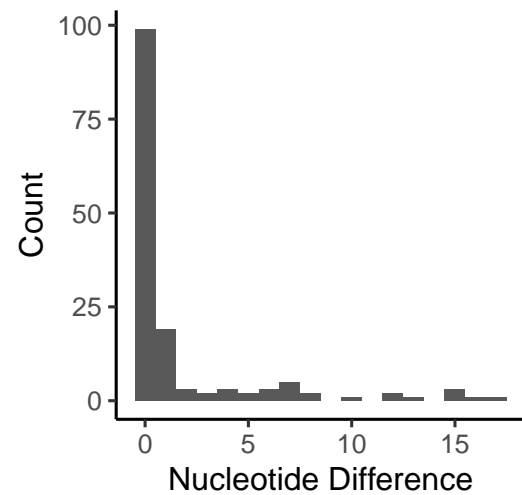
IGHV3-48*03

277 sequences assigned
175 (63.2%) exact matches, in which:
175 unique CDR3
6 unique J



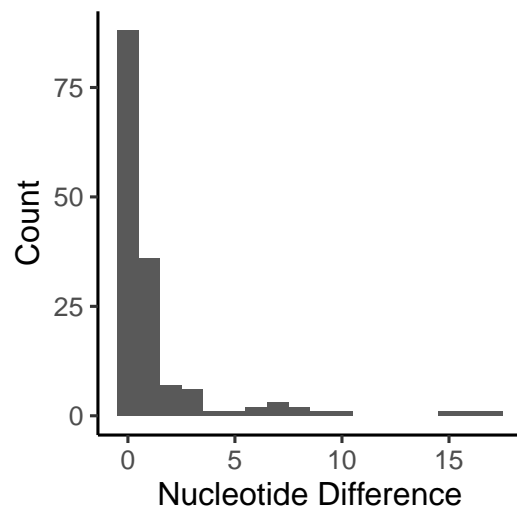
IGHV3-53*01

153 sequences assigned
99 (64.7%) exact matches, in which:
97 unique CDR3
6 unique J



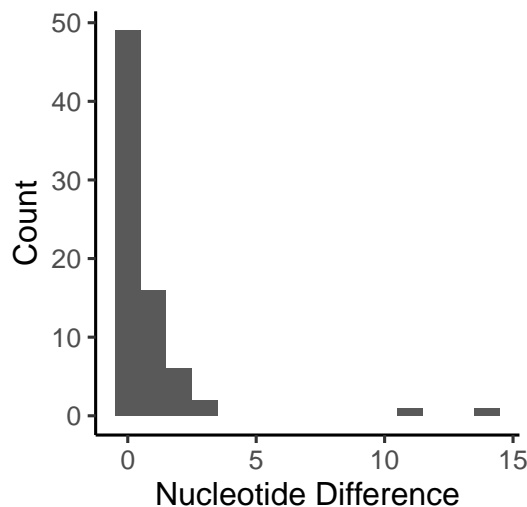
IGHV3-43*02

152 sequences assigned
88 (57.9%) exact matches, in which:
88 unique CDR3
5 unique J



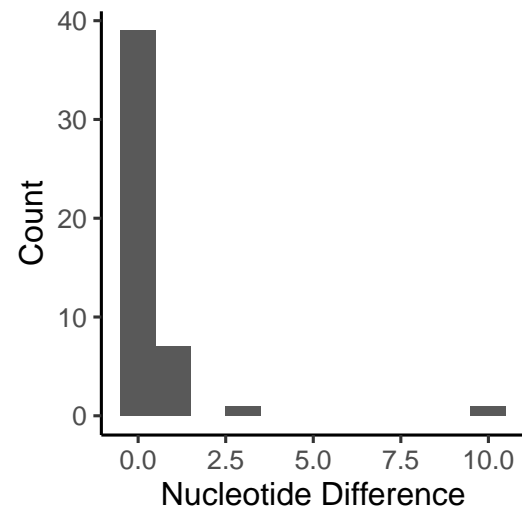
IGHV3-49*04

76 sequences assigned
49 (64.5%) exact matches, in which:
43 unique CDR3
5 unique J



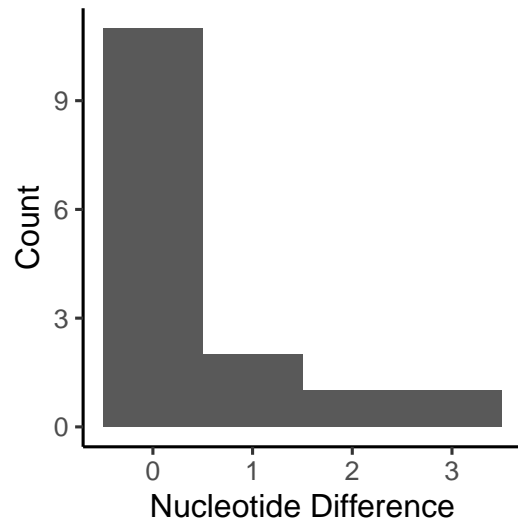
IGHV3-53*04

48 sequences assigned
39 (81.2%) exact matches, in which:
39 unique CDR3
5 unique J



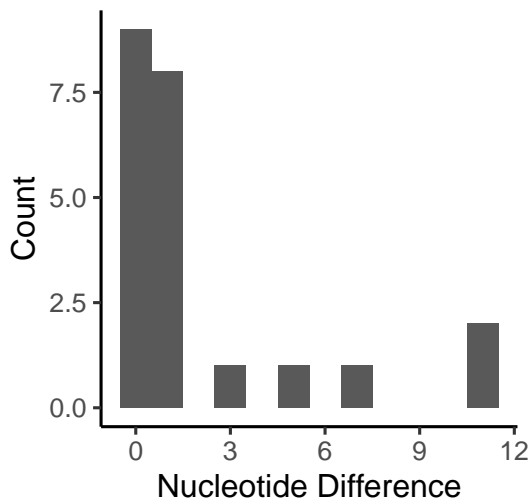
IGHV3-64*01

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
2 unique J



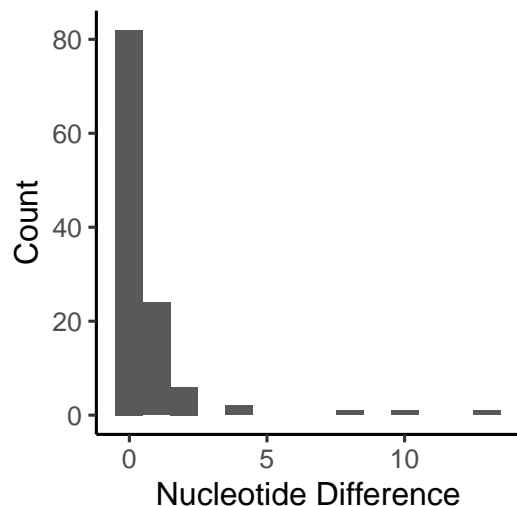
IGHV3-73*01

22 sequences assigned
9 (40.9%) exact matches, in which:
9 unique CDR3
3 unique J



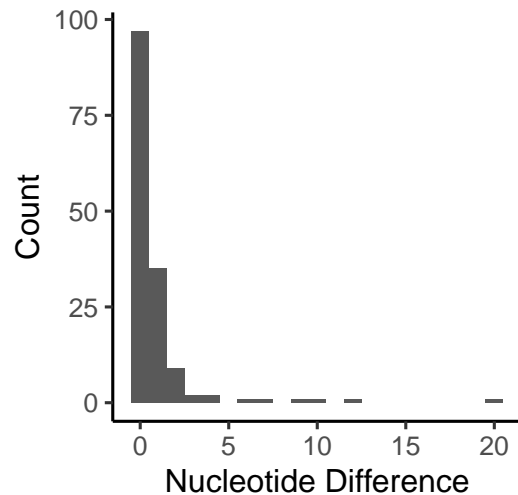
IGHV3-64D*06

118 sequences assigned
82 (69.5%) exact matches, in which:
82 unique CDR3
6 unique J



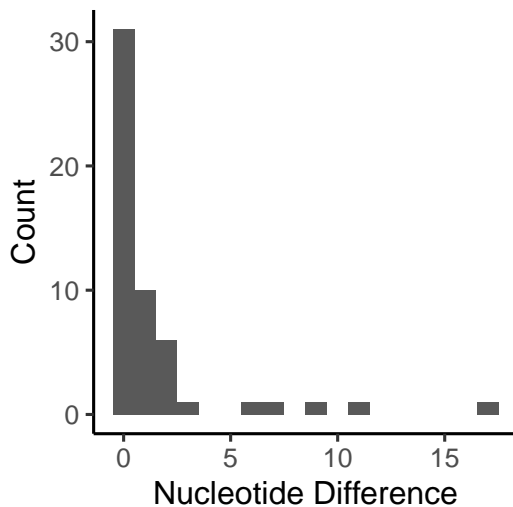
IGHV3-66*01

151 sequences assigned
97 (64.2%) exact matches, in which:
96 unique CDR3
6 unique J



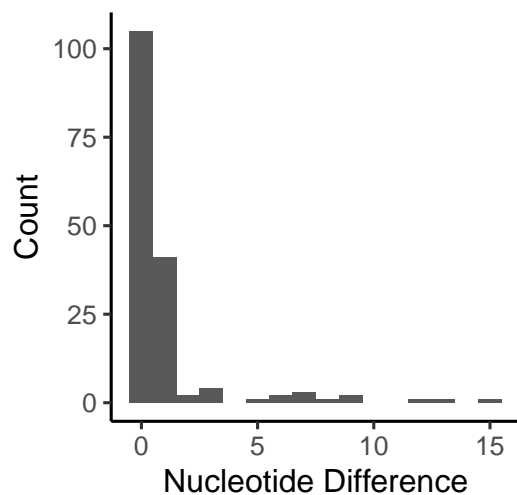
IGHV3-73*02

53 sequences assigned
31 (58.5%) exact matches, in which:
29 unique CDR3
4 unique J



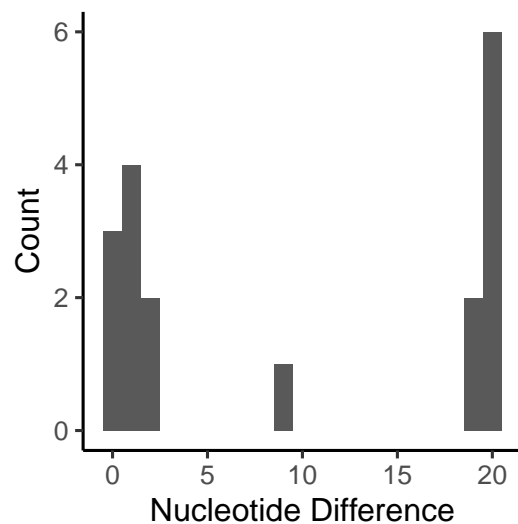
IGHV4-4*07

165 sequences assigned
105 (63.6%) exact matches, in which:
104 unique CDR3
5 unique J



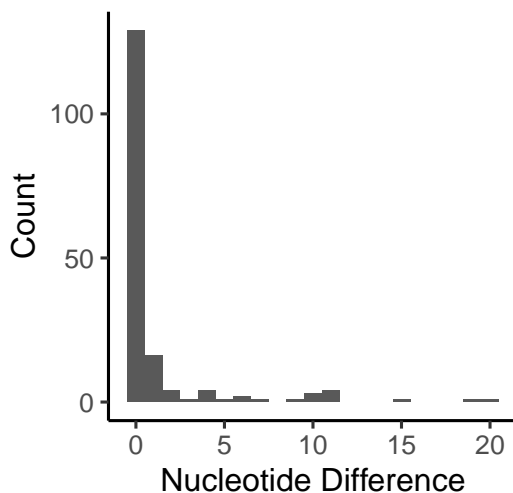
IGHV3-72*01

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



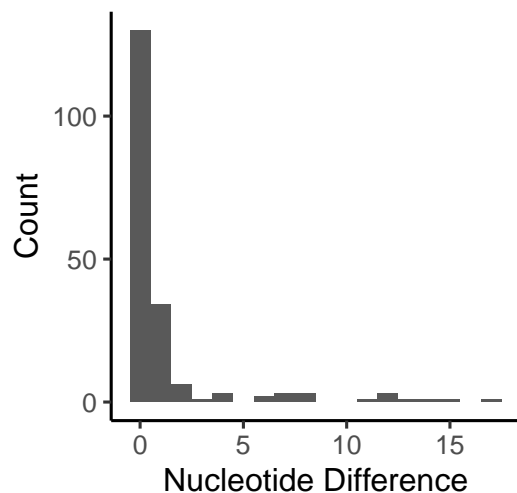
IGHV3-74*01

171 sequences assigned
129 (75.4%) exact matches, in which:
127 unique CDR3
7 unique J



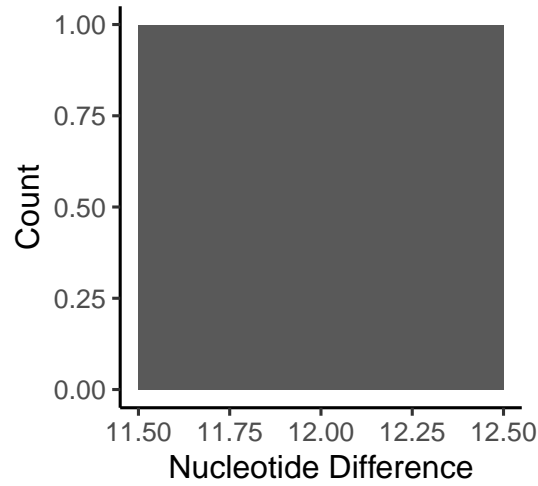
IGHV4-4*02_C20T

192 sequences assigned
130 (67.7%) exact matches, in which:
128 unique CDR3
6 unique J



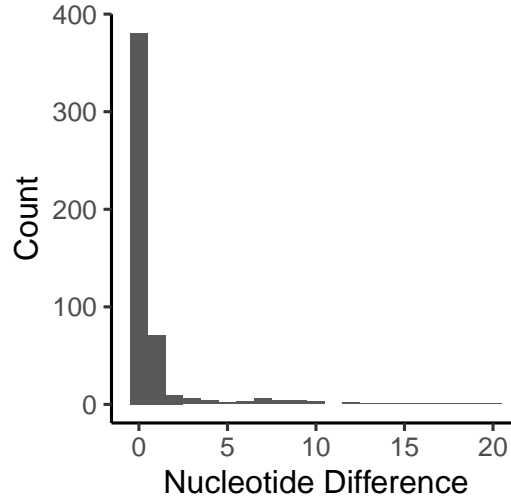
IGHV4-28*01

1 sequences assigned
No exact matches.



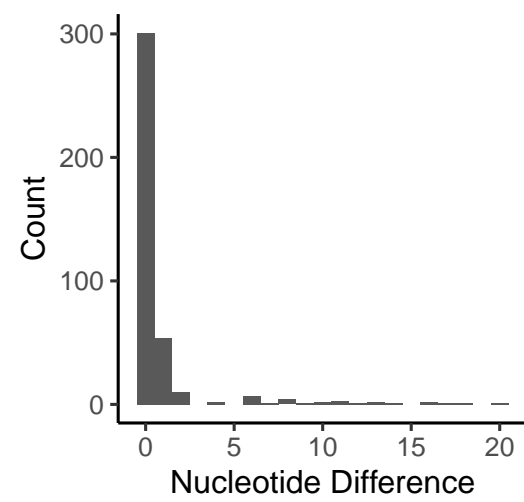
IGHV4-31*03

508 sequences assigned
381 (75%) exact matches, in which:
380 unique CDR3
7 unique J



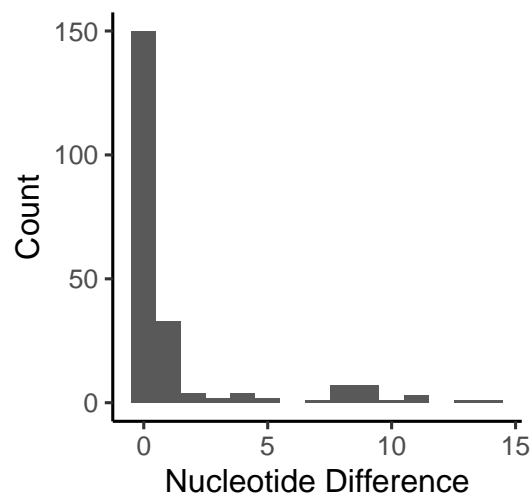
IGHV4-59*01

398 sequences assigned
301 (75.6%) exact matches, in which:
298 unique CDR3
7 unique J



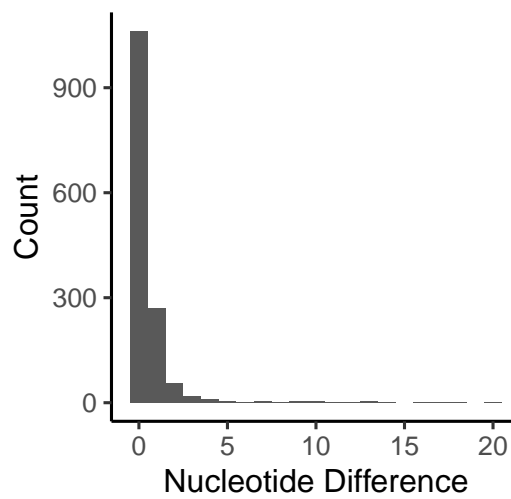
IGHV4-30-4*01

218 sequences assigned
150 (68.8%) exact matches, in which:
148 unique CDR3
5 unique J



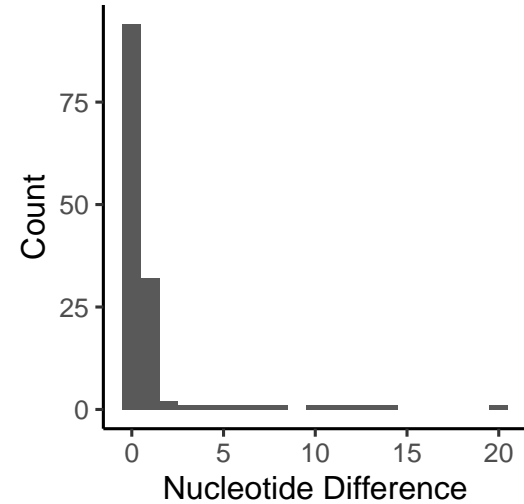
IGHV4-34*01

1452 sequences assigned
1062 (73.1%) exact matches, in which:
1036 unique CDR3
7 unique J



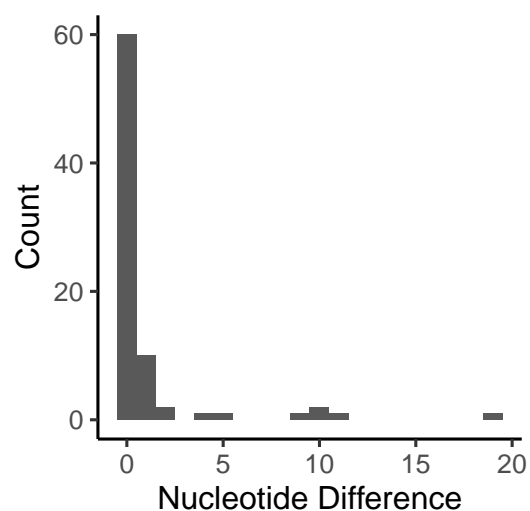
IGHV4-59*08

142 sequences assigned
94 (66.2%) exact matches, in which:
92 unique CDR3
6 unique J



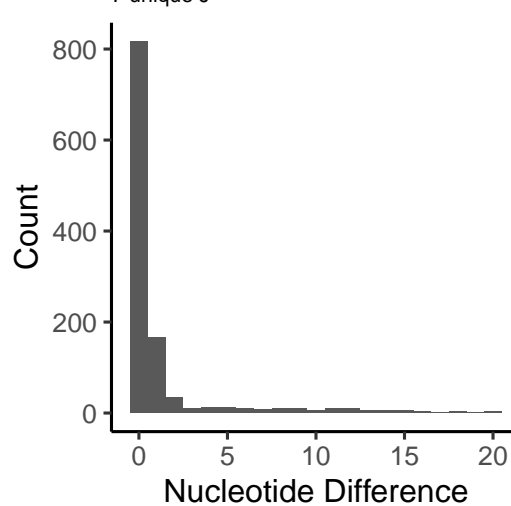
IGHV4-30-2*01

79 sequences assigned
60 (75.9%) exact matches, in which:
60 unique CDR3
6 unique J



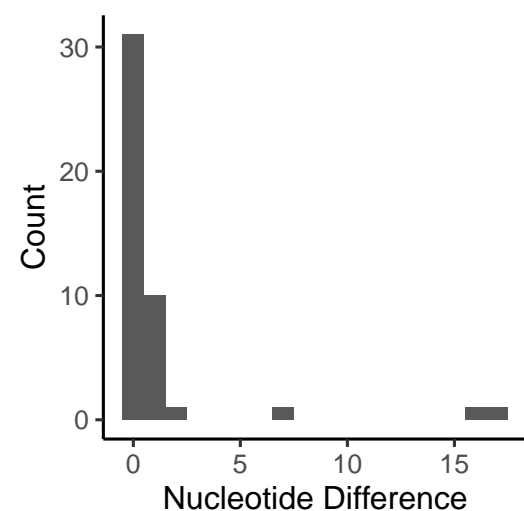
IGHV4-39*01

1154 sequences assigned
817 (70.8%) exact matches, in which:
805 unique CDR3
7 unique J



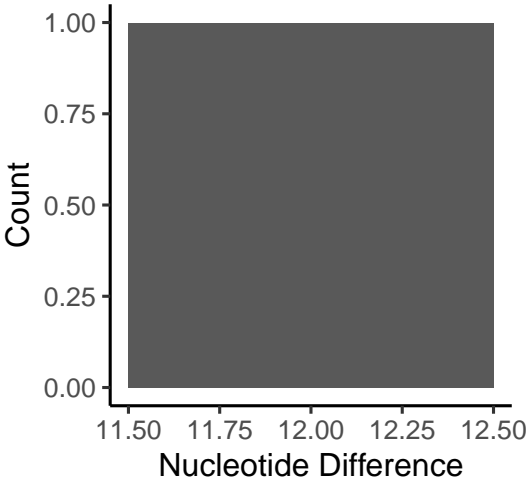
IGHV4-61*01

46 sequences assigned
31 (67.4%) exact matches, in which:
31 unique CDR3
4 unique J



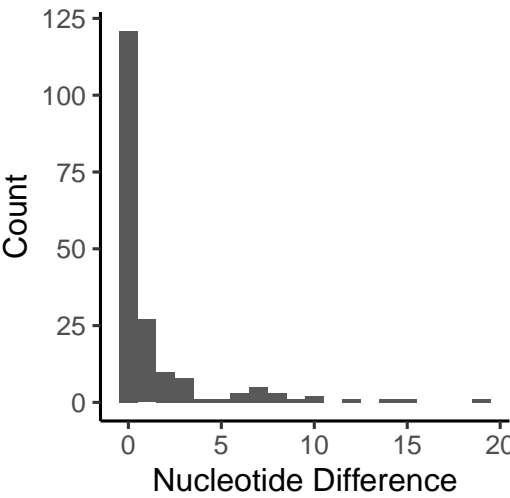
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



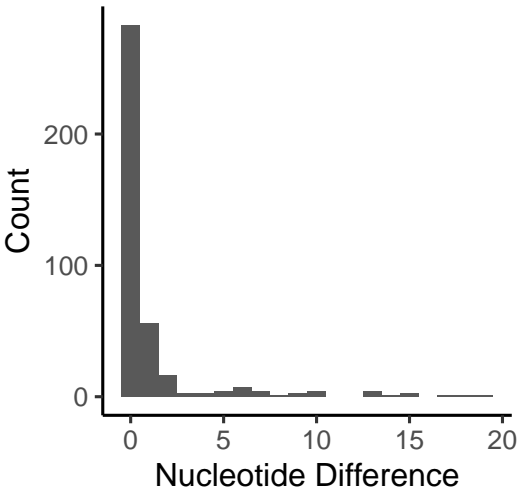
IGHV6-1*01

186 sequences assigned
121 (65.1%) exact matches, in which:
120 unique CDR3
6 unique J



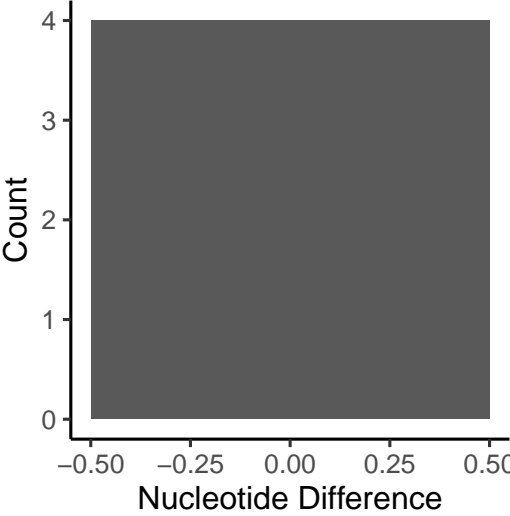
IGHV5-10-1*03

397 sequences assigned
283 (71.3%) exact matches, in which:
281 unique CDR3
6 unique J



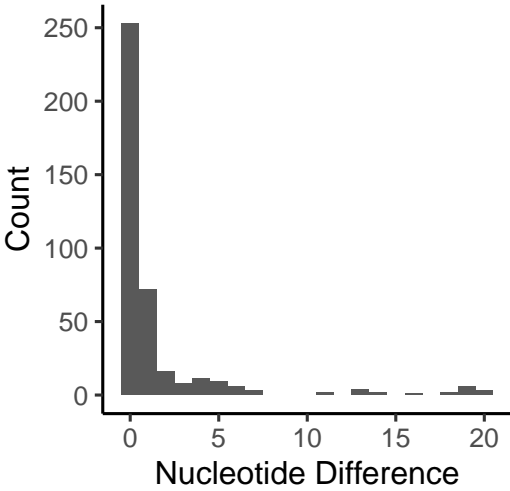
IGHV7-4-1*01

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

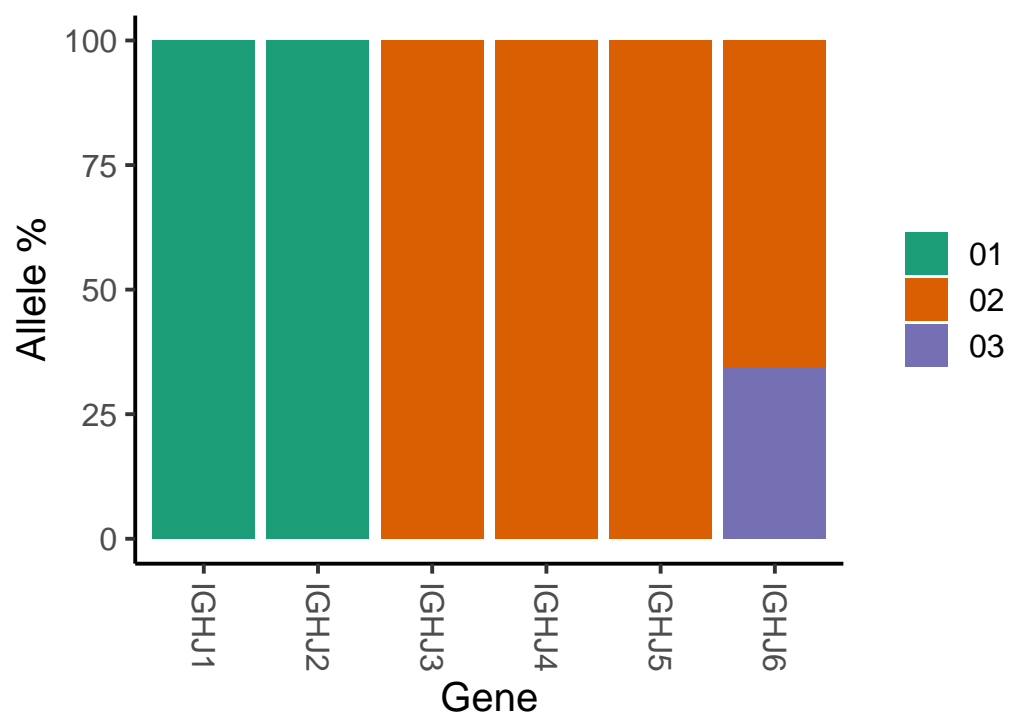


IGHV5-51*01

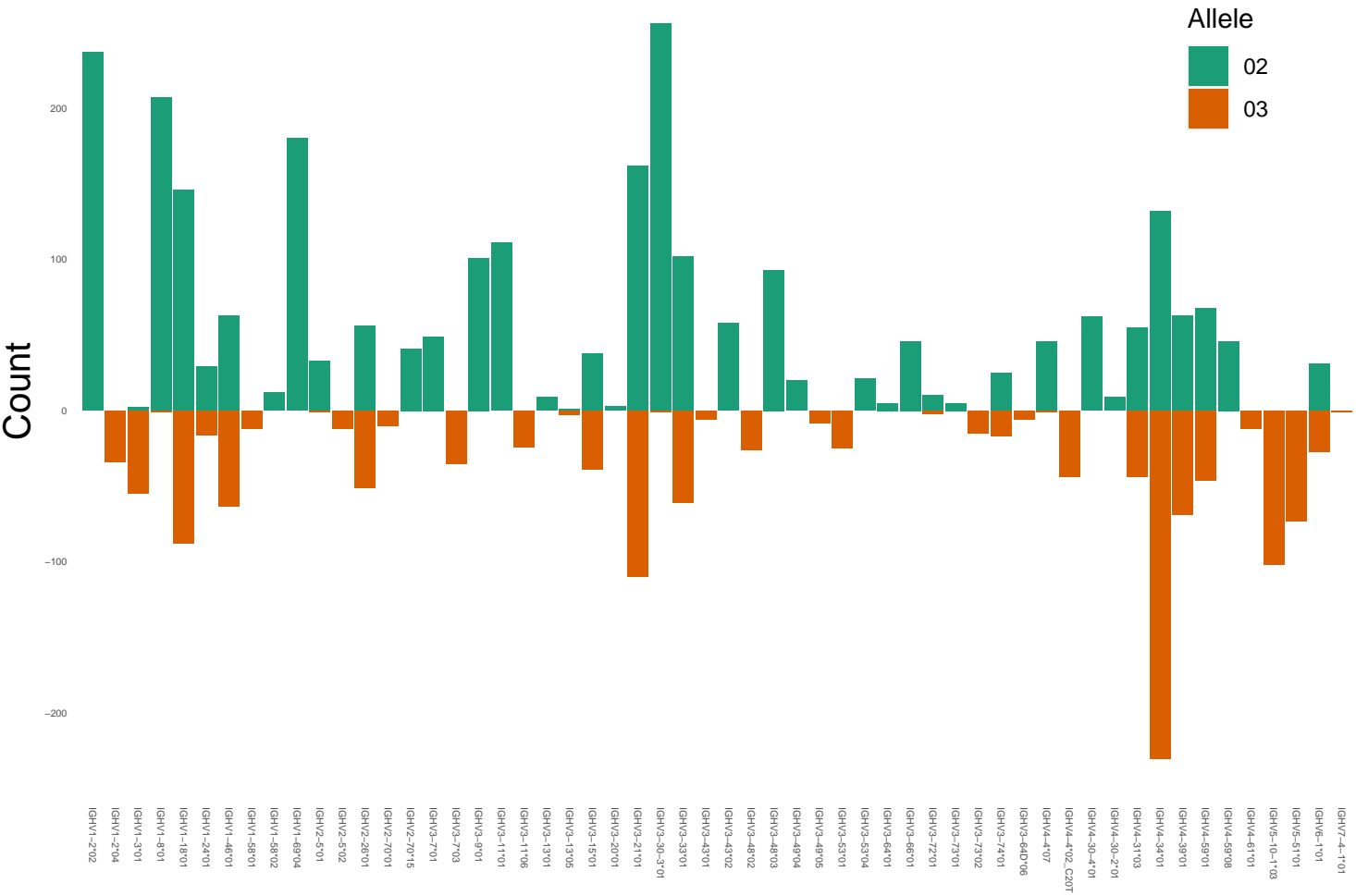
404 sequences assigned
253 (62.6%) exact matches, in which:
248 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.