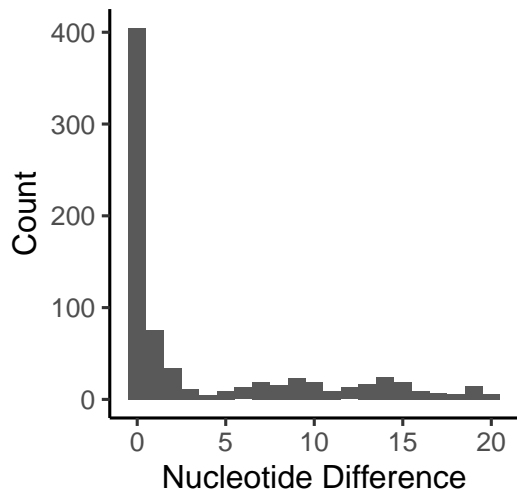


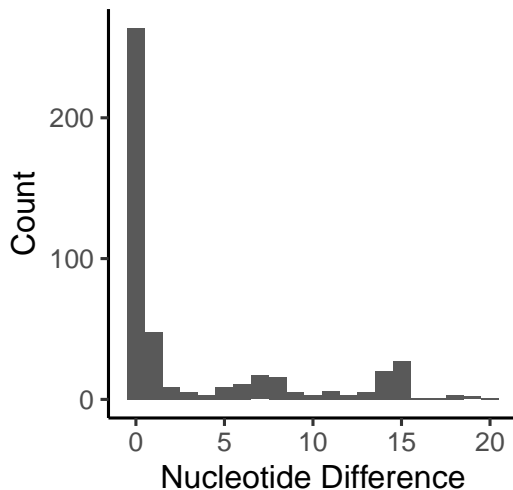
IGHV1-2*02

845 sequences assigned
405 (47.9%) exact matches, in which:
389 unique CDR3
7 unique J



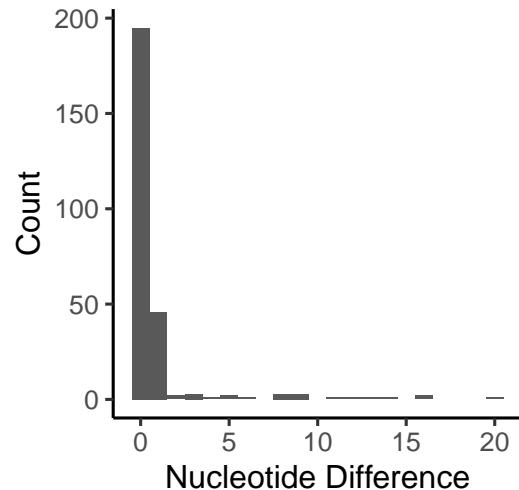
IGHV1-8*01

828 sequences assigned
264 (31.9%) exact matches, in which:
257 unique CDR3
7 unique J



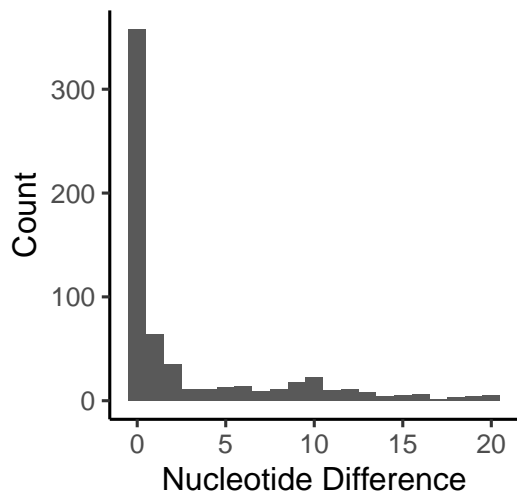
IGHV1-24*01

271 sequences assigned
195 (72%) exact matches, in which:
186 unique CDR3
7 unique J



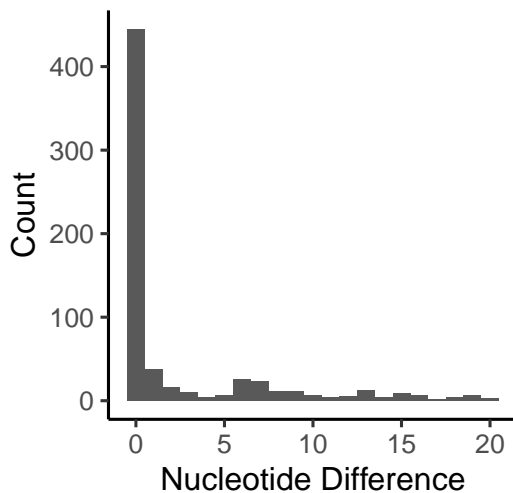
IGHV1-2*06

661 sequences assigned
358 (54.2%) exact matches, in which:
346 unique CDR3
7 unique J



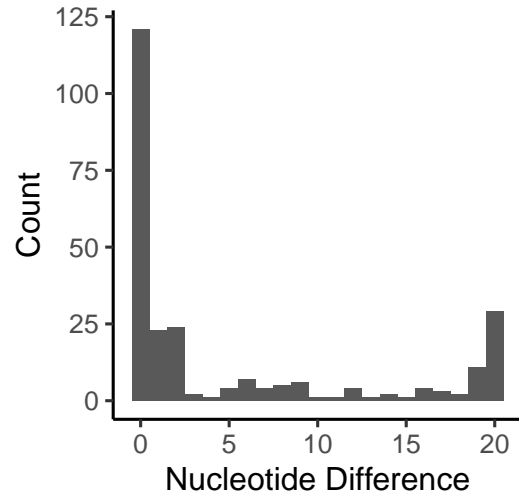
IGHV1-18*01

914 sequences assigned
445 (48.7%) exact matches, in which:
436 unique CDR3
7 unique J



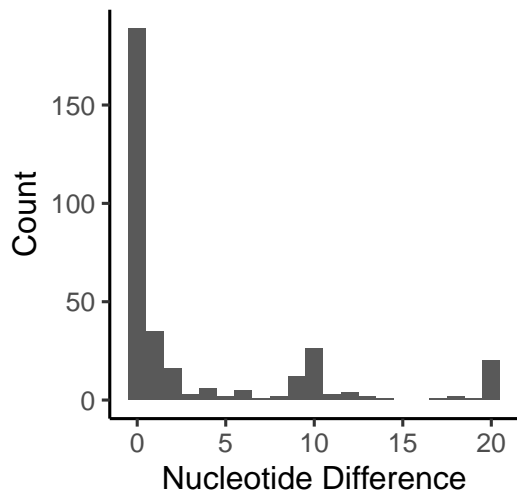
IGHV1-46*01

279 sequences assigned
121 (43.4%) exact matches, in which:
117 unique CDR3
7 unique J



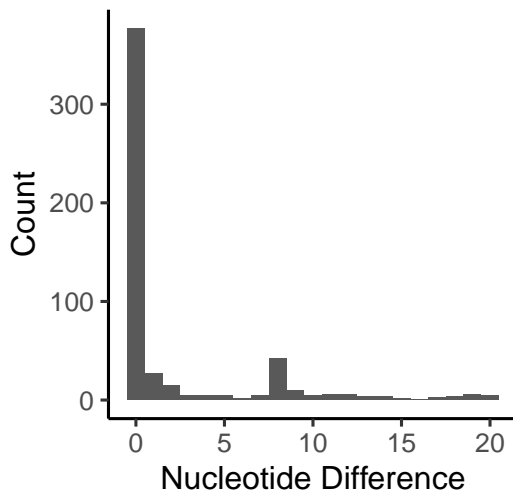
IGHV1-3*01_05

405 sequences assigned
189 (46.7%) exact matches, in which:
169 unique CDR3
6 unique J



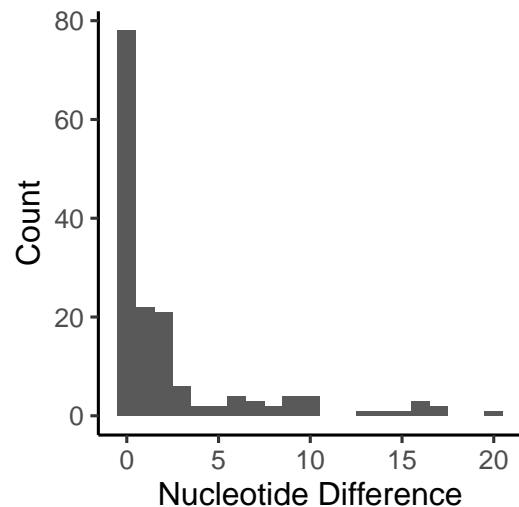
IGHV1-18*04

566 sequences assigned
377 (66.6%) exact matches, in which:
370 unique CDR3
7 unique J



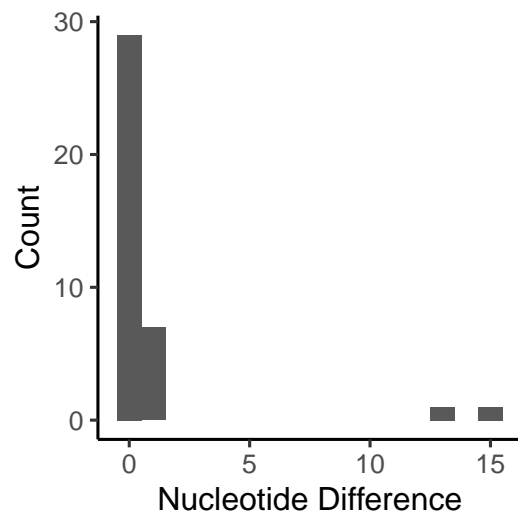
IGHV1-46*03

161 sequences assigned
78 (48.4%) exact matches, in which:
75 unique CDR3
5 unique J



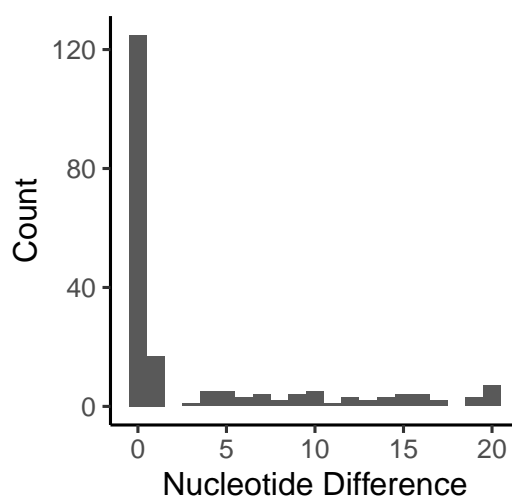
IGHV1-58*02

42 sequences assigned
29 (69%) exact matches, in which:
29 unique CDR3
6 unique J



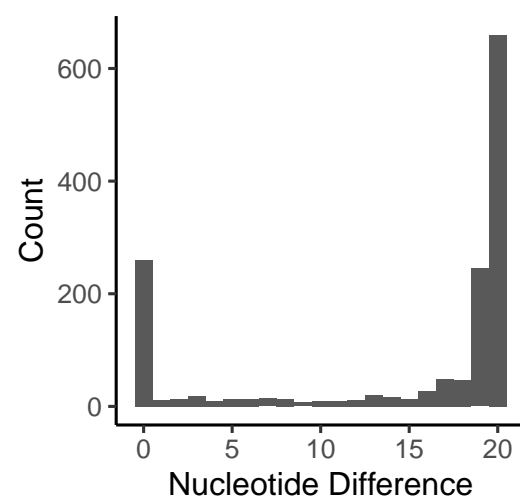
IGHV2-5*02

342 sequences assigned
125 (36.5%) exact matches, in which:
117 unique CDR3
7 unique J



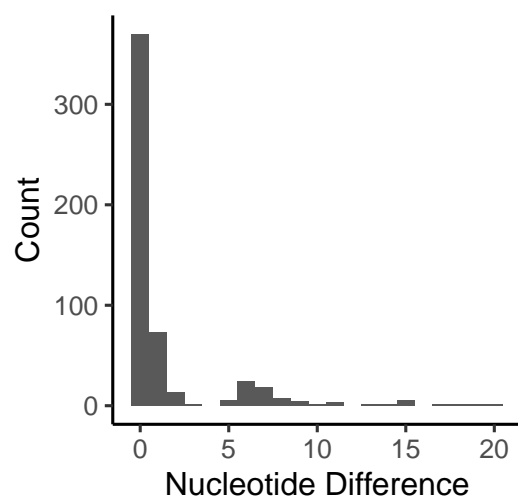
IGHV3-7*01

1629 sequences assigned
260 (16%) exact matches, in which:
156 unique CDR3
6 unique J



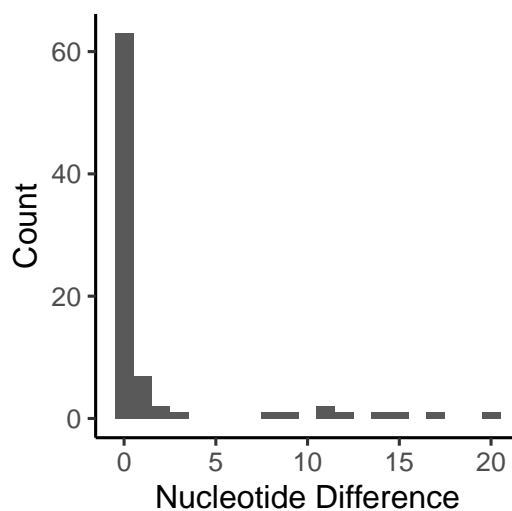
IGHV1-69*04_09

548 sequences assigned
370 (67.5%) exact matches, in which:
367 unique CDR3
7 unique J



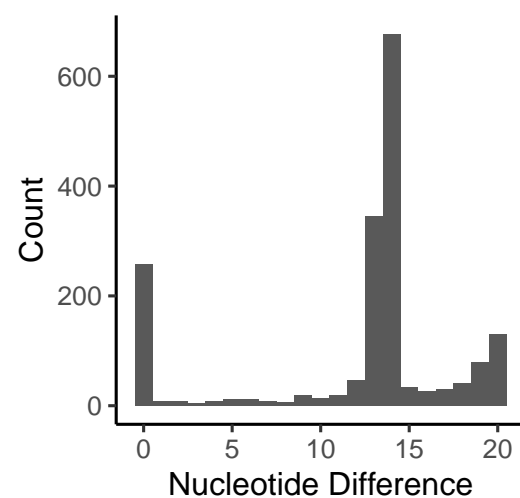
IGHV2-26*01

84 sequences assigned
63 (75%) exact matches, in which:
61 unique CDR3
6 unique J



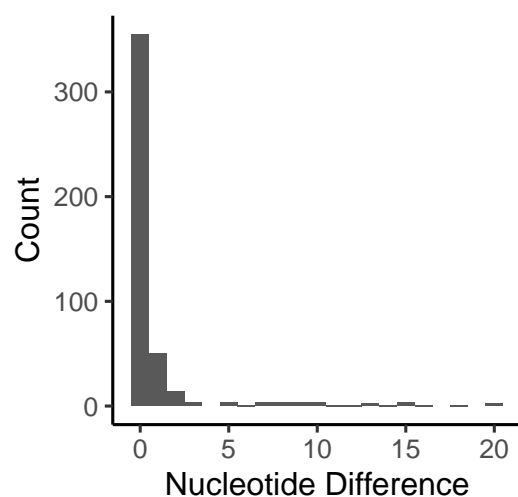
IGHV3-7*03

1991 sequences assigned
257 (12.9%) exact matches, in which:
149 unique CDR3
7 unique J



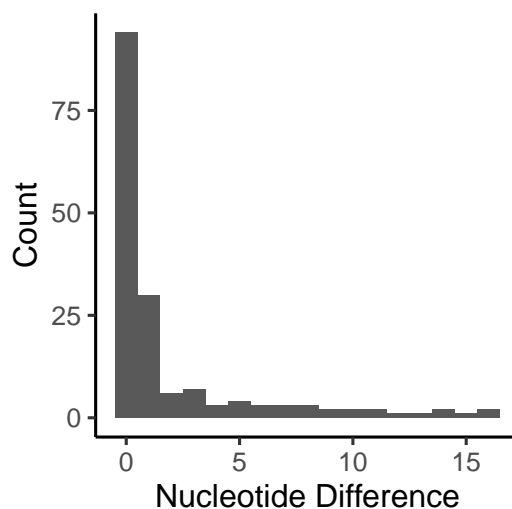
IGHV1-69*04_09_G112A

620 sequences assigned
355 (57.3%) exact matches, in which:
351 unique CDR3
7 unique J



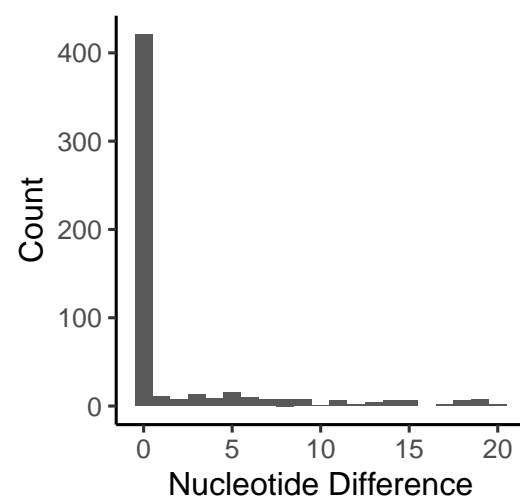
IGHV2-70*11_15

167 sequences assigned
94 (56.3%) exact matches, in which:
83 unique CDR3
5 unique J



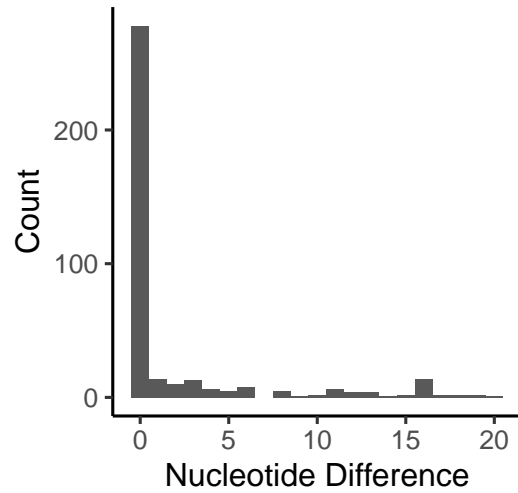
IGHV3-9*01

573 sequences assigned
421 (73.5%) exact matches, in which:
232 unique CDR3
5 unique J



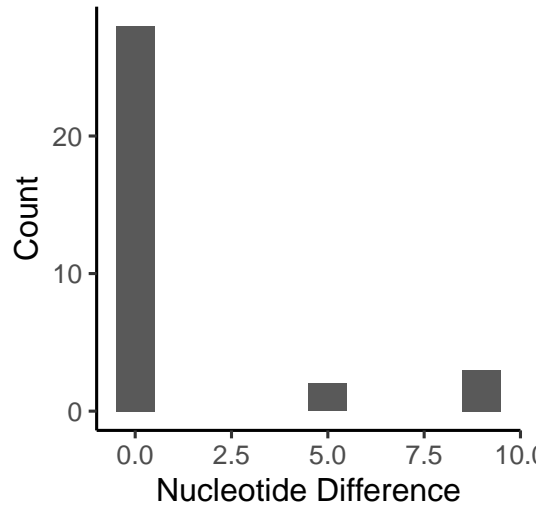
IGHV3-11*01

405 sequences assigned
278 (68.6%) exact matches, in which:
160 unique CDR3
7 unique J



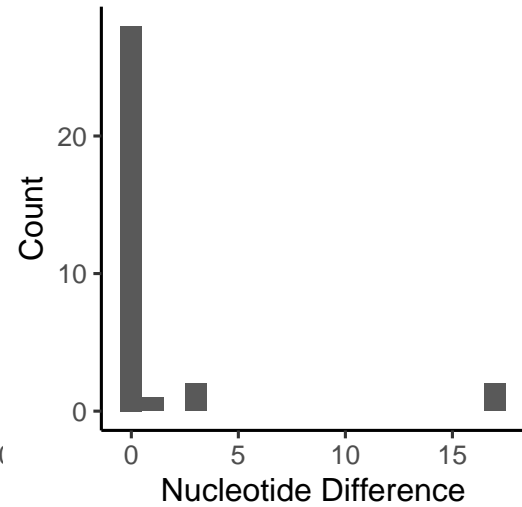
IGHV3-13*05

33 sequences assigned
28 (84.8%) exact matches, in which:
17 unique CDR3
5 unique J



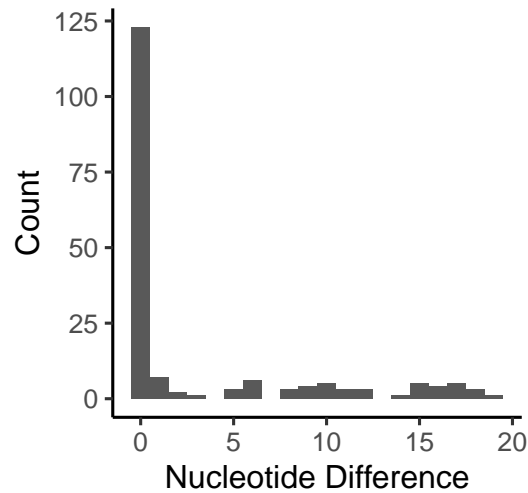
IGHV3-20*01_02

35 sequences assigned
28 (80%) exact matches, in which:
15 unique CDR3
3 unique J



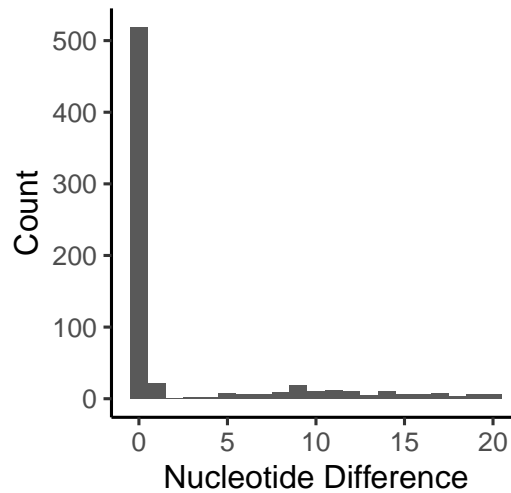
IGHV3-11*06

189 sequences assigned
123 (65.1%) exact matches, in which:
69 unique CDR3
4 unique J



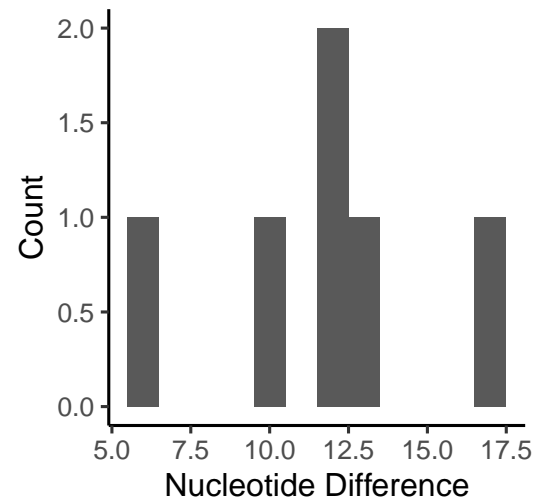
IGHV3-15*01_02

1069 sequences assigned
519 (48.6%) exact matches, in which:
302 unique CDR3
7 unique J



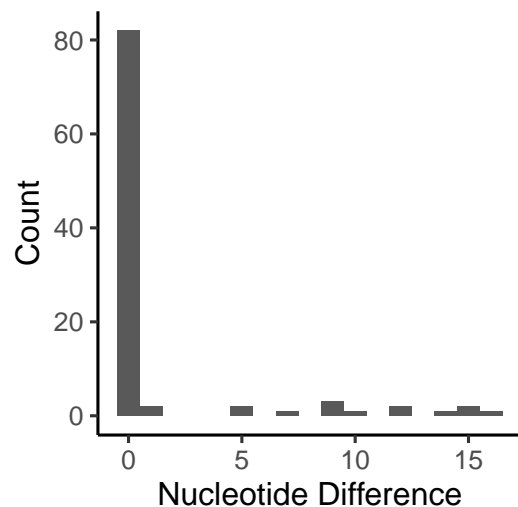
IGHV3-20*03_04

8 sequences assigned
No exact matches.



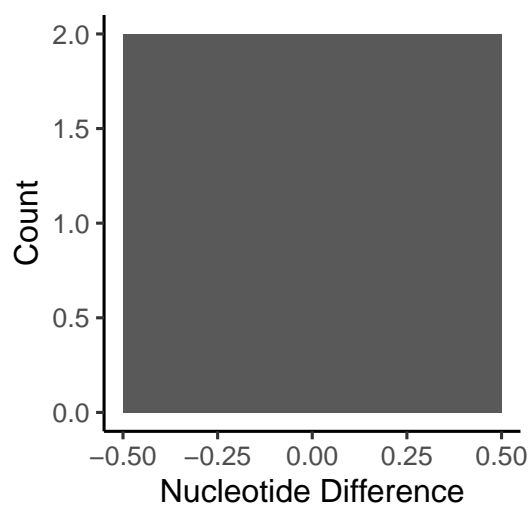
IGHV3-13*01

100 sequences assigned
82 (82%) exact matches, in which:
44 unique CDR3
5 unique J



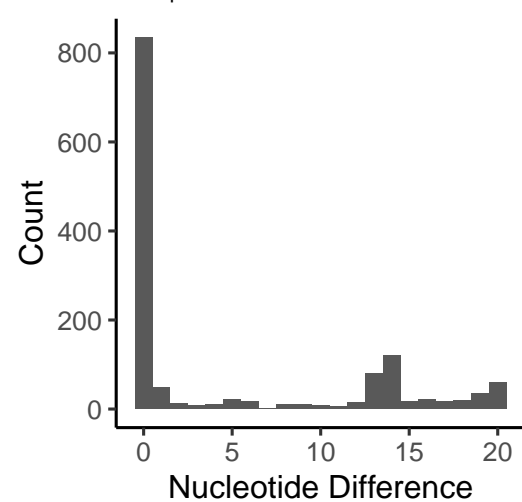
IGHV3-19*01

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



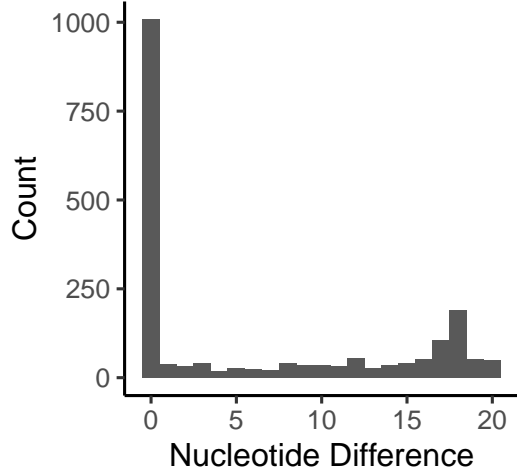
IGHV3-21*01_02

1810 sequences assigned
835 (46.1%) exact matches, in which:
481 unique CDR3
7 unique J



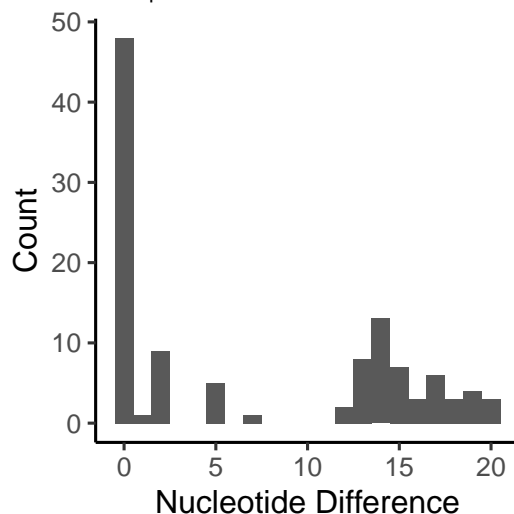
IGHV3-23*01_04

2546 sequences assigned
1008 (39.6%) exact matches, in which:
578 unique CDR3
7 unique J



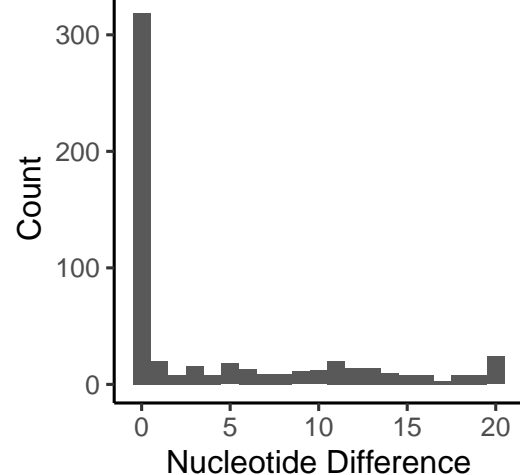
IGHV3-33*08

150 sequences assigned
48 (32%) exact matches, in which:
37 unique CDR3
5 unique J



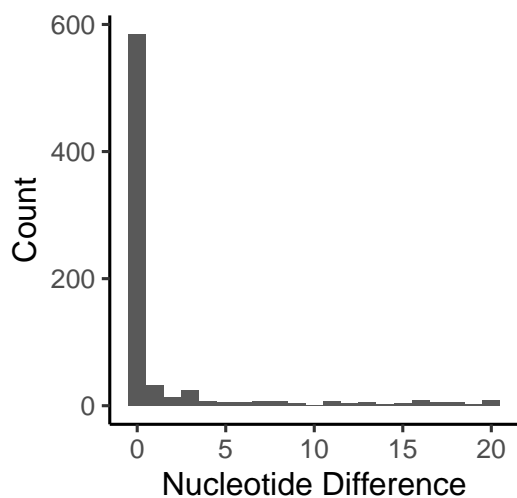
IGHV3-48*03

982 sequences assigned
319 (32.5%) exact matches, in which:
191 unique CDR3
6 unique J



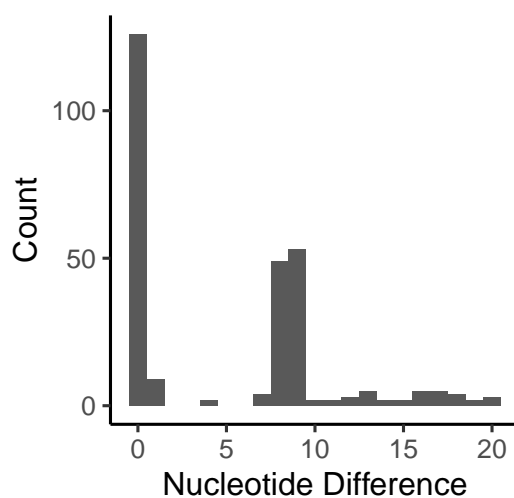
IGHV3-30-3*01

788 sequences assigned
585 (74.2%) exact matches, in which:
358 unique CDR3
7 unique J



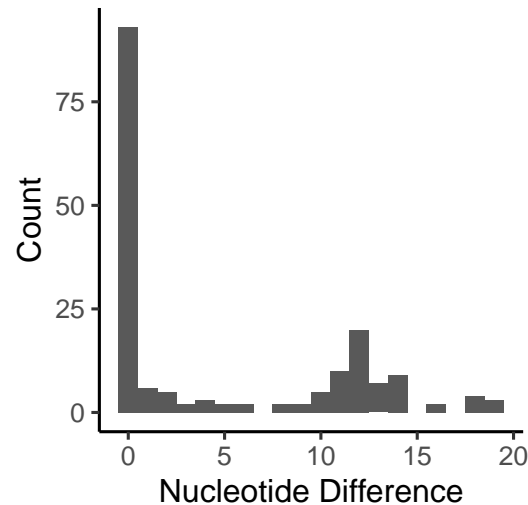
IGHV3-43*02

456 sequences assigned
126 (27.6%) exact matches, in which:
73 unique CDR3
5 unique J



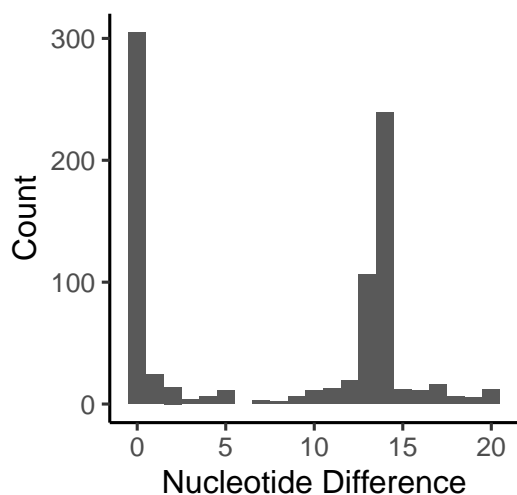
IGHV3-49*04

189 sequences assigned
93 (49.2%) exact matches, in which:
56 unique CDR3
4 unique J



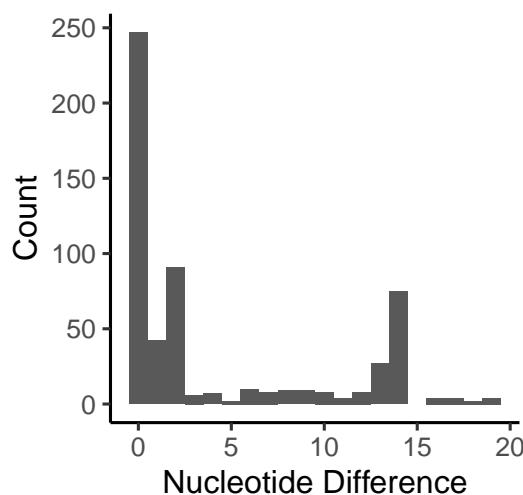
IGHV3-33*01

1168 sequences assigned
305 (26.1%) exact matches, in which:
181 unique CDR3
6 unique J



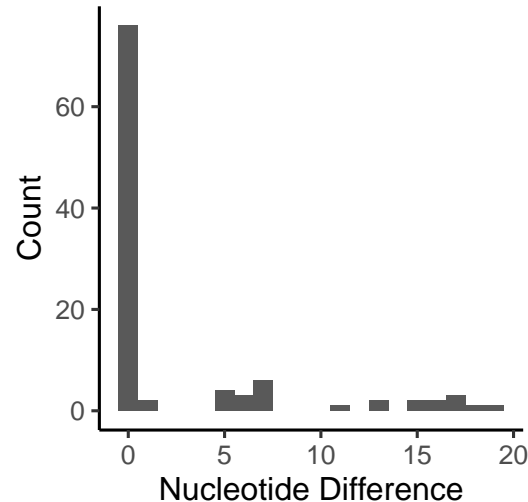
IGHV3-48*01

1155 sequences assigned
247 (21.4%) exact matches, in which:
149 unique CDR3
6 unique J



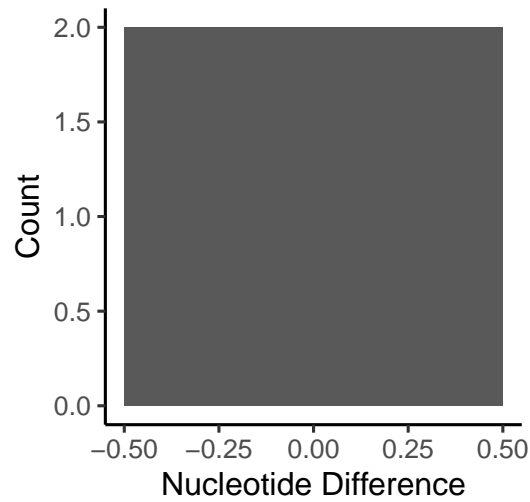
IGHV3-49*03_05

144 sequences assigned
76 (52.8%) exact matches, in which:
44 unique CDR3
5 unique J



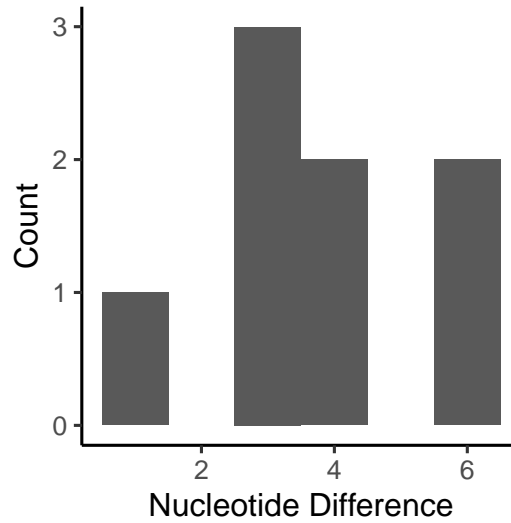
IGHV3-52*01_03

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



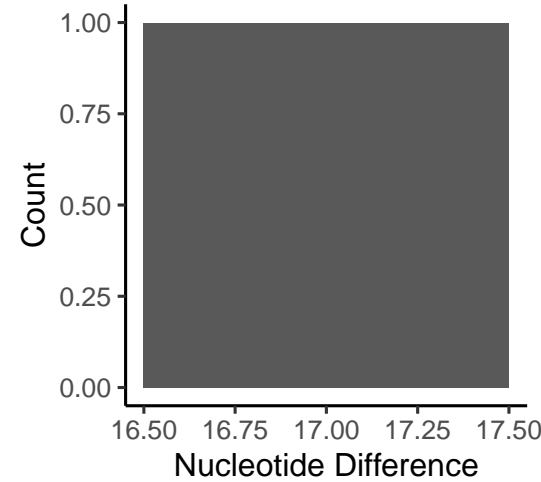
IGHV3-64*04

30 sequences assigned
No exact matches.



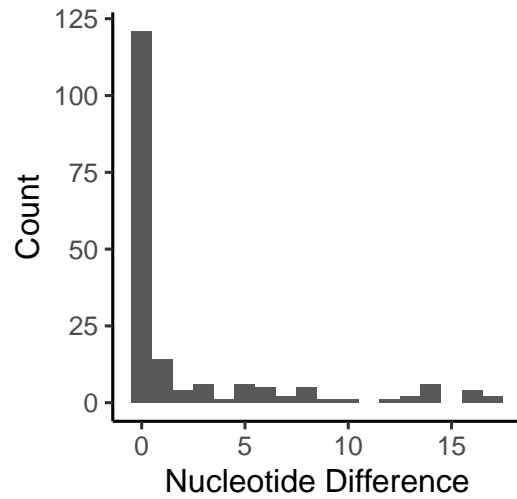
IGHV3-69-1*02

3 sequences assigned
No exact matches.



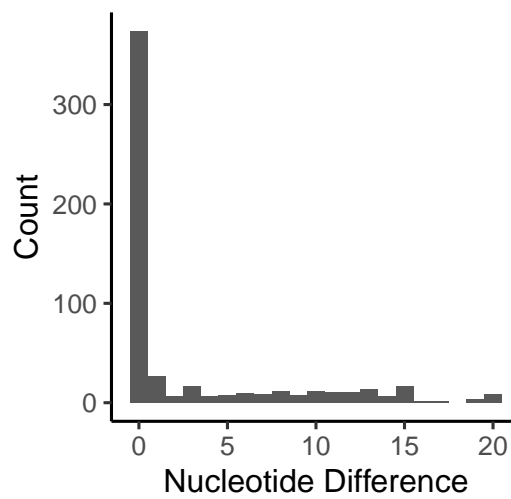
IGHV3-53*04

191 sequences assigned
121 (63.4%) exact matches, in which:
70 unique CDR3
7 unique J



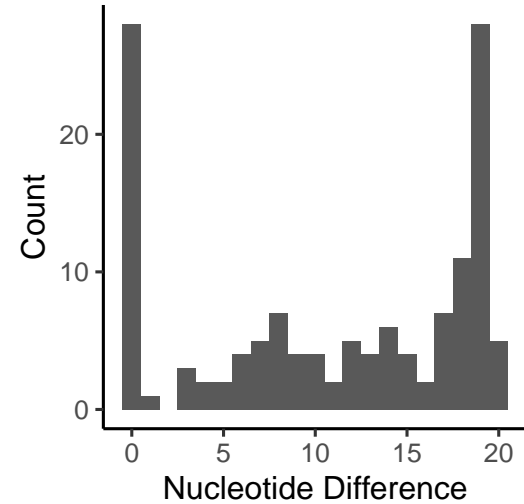
IGHV3-66*01

688 sequences assigned
374 (54.4%) exact matches, in which:
211 unique CDR3
7 unique J



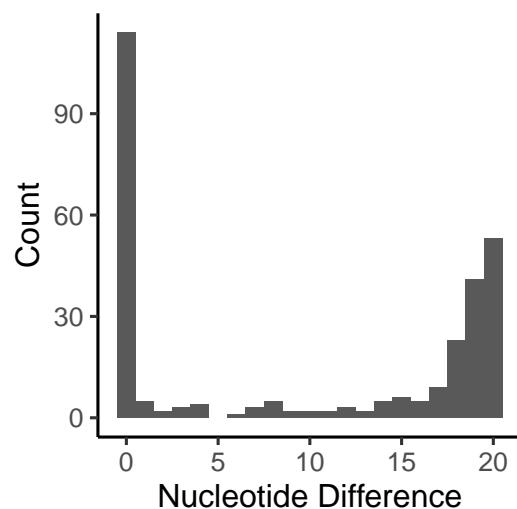
IGHV3-72*01

158 sequences assigned
28 (17.7%) exact matches, in which:
16 unique CDR3
5 unique J



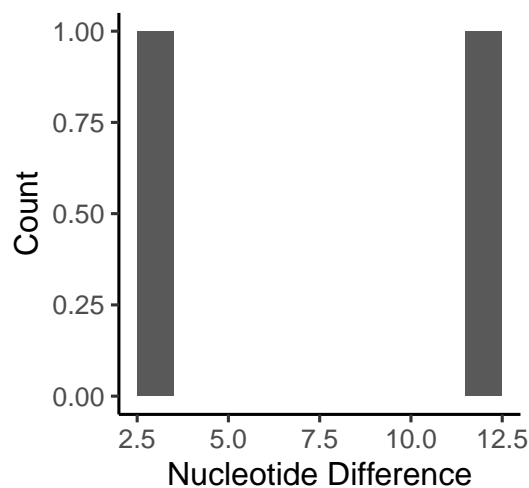
IGHV3-64*01

837 sequences assigned
114 (13.6%) exact matches, in which:
64 unique CDR3
5 unique J



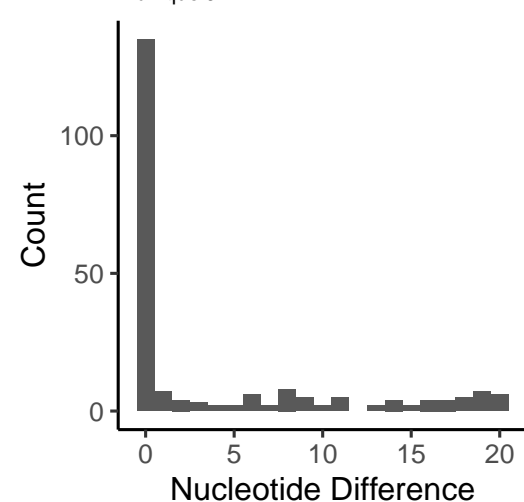
IGHV3-69-1*01

2 sequences assigned
No exact matches.



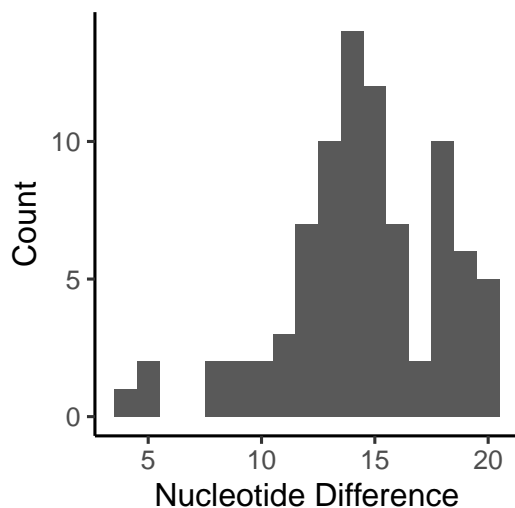
IGHV3-73*01_02

289 sequences assigned
135 (46.7%) exact matches, in which:
82 unique CDR3
7 unique J



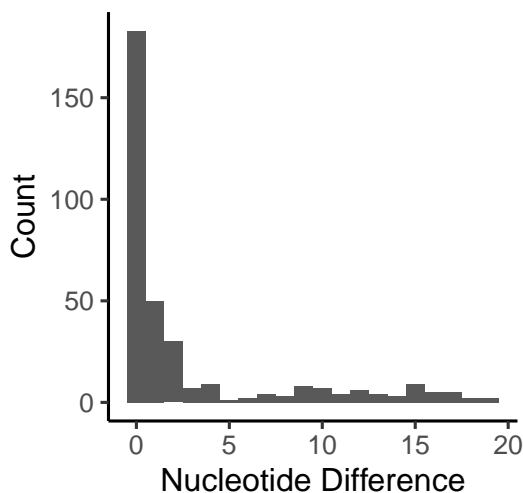
IGHV3-74*03

893 sequences assigned
No exact matches.



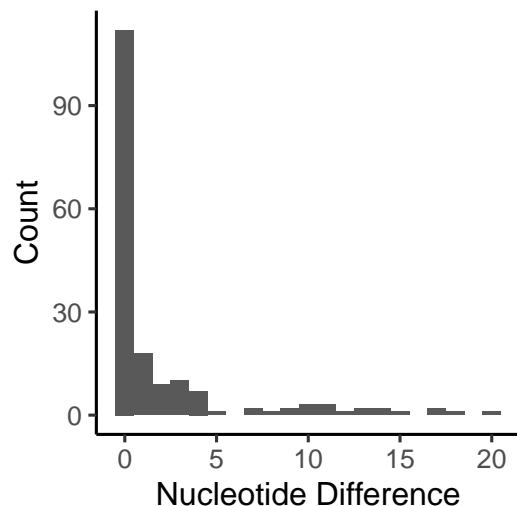
IGHV4-4*07

361 sequences assigned
183 (50.7%) exact matches, in which:
173 unique CDR3
6 unique J



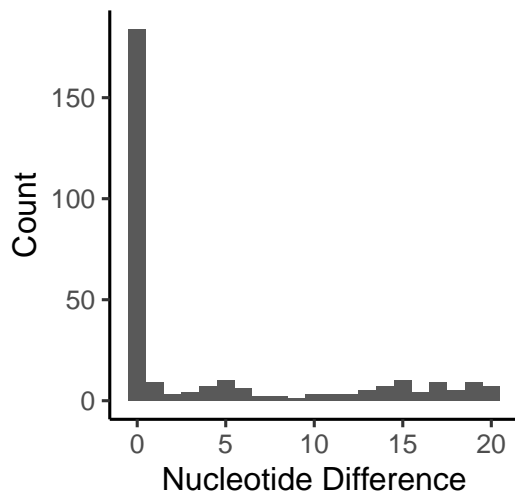
IGHV4-30-4*01

389 sequences assigned
112 (28.8%) exact matches, in which:
107 unique CDR3
5 unique J



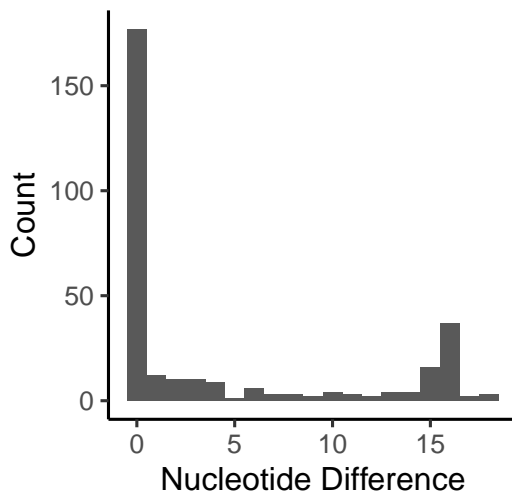
IGHV3-74*01_02

341 sequences assigned
184 (54%) exact matches, in which:
100 unique CDR3
7 unique J



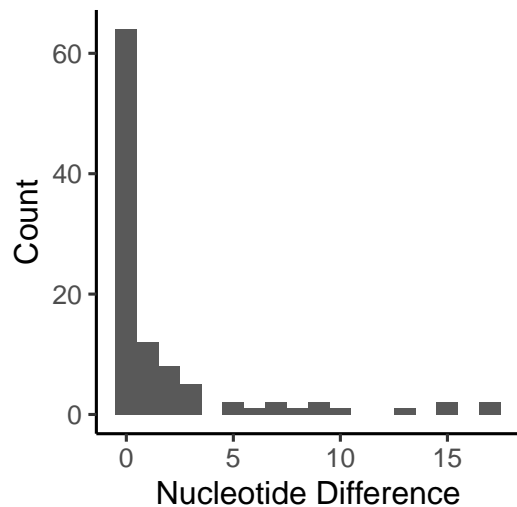
IGHV4-4*02_03

348 sequences assigned
177 (50.9%) exact matches, in which:
153 unique CDR3
7 unique J



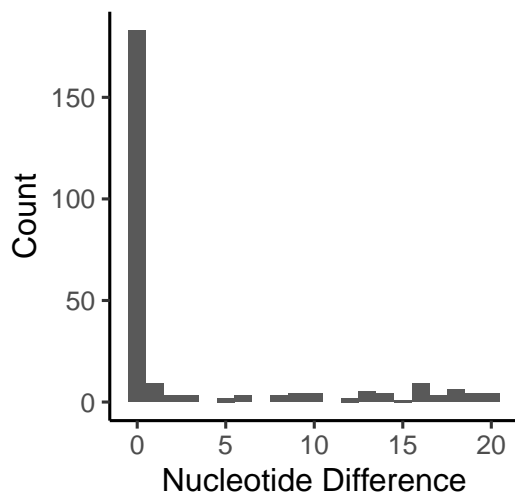
IGHV4-30-2*01

113 sequences assigned
64 (56.6%) exact matches, in which:
52 unique CDR3
5 unique J



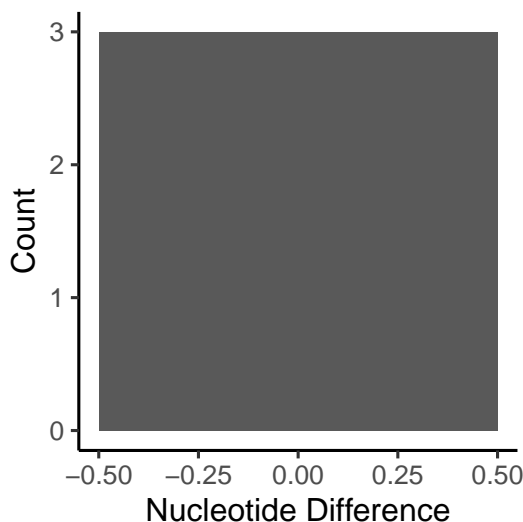
IGHV3-64D*06

748 sequences assigned
183 (24.5%) exact matches, in which:
83 unique CDR3
6 unique J



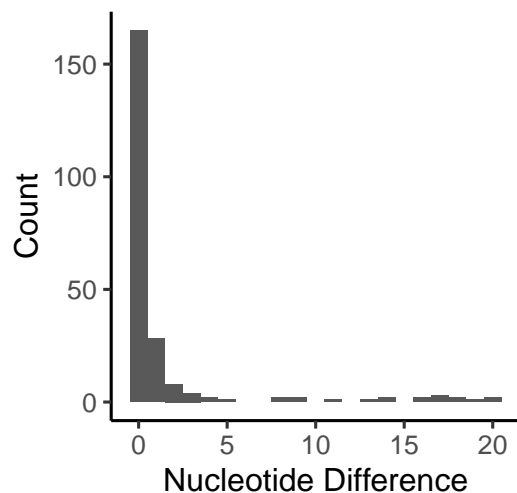
IGHV4-28*01_07

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



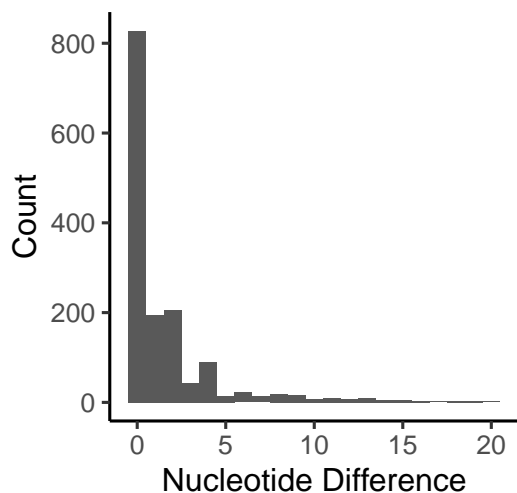
IGHV4-31*02

250 sequences assigned
165 (66%) exact matches, in which:
153 unique CDR3
6 unique J



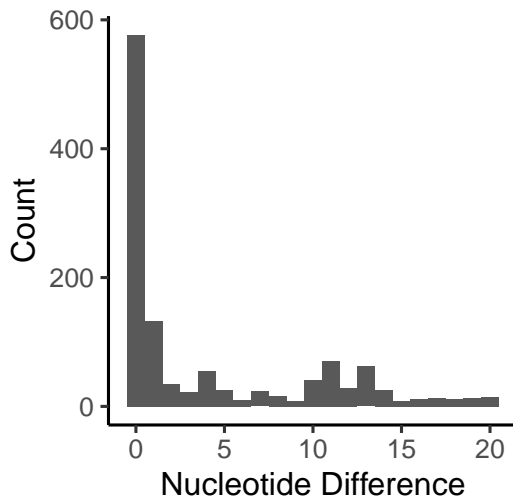
IGHV4-34*01_02

1518 sequences assigned
828 (54.5%) exact matches, in which:
734 unique CDR3
7 unique J



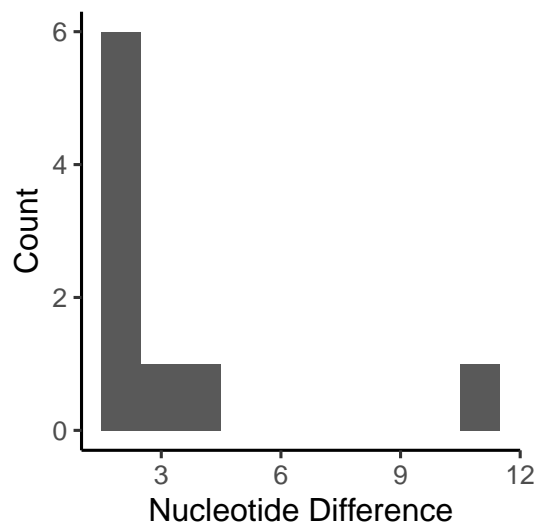
IGHV4-59*08

2136 sequences assigned
577 (27%) exact matches, in which:
537 unique CDR3
7 unique J



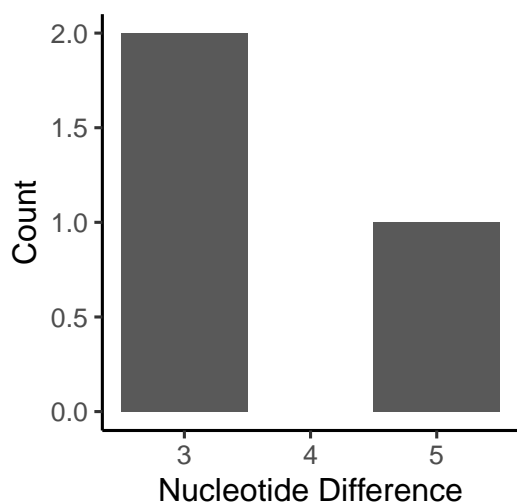
IGHV4-61*01

10 sequences assigned
No exact matches.



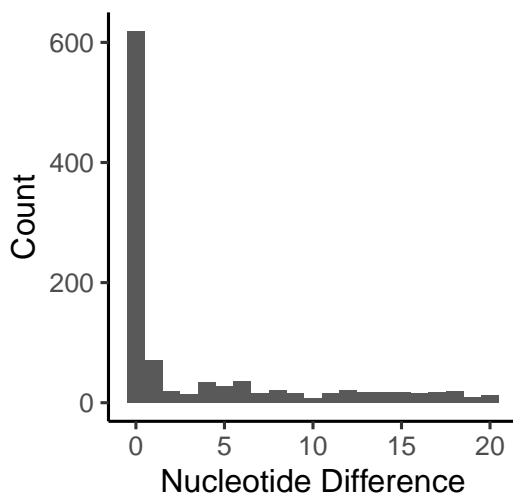
IGHV4-38-2*02

3 sequences assigned
No exact matches.



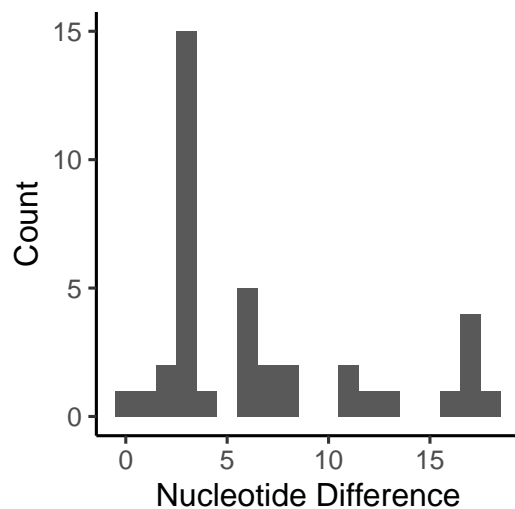
IGHV4-59*02_G88A

1644 sequences assigned
619 (37.7%) exact matches, in which:
594 unique CDR3
7 unique J



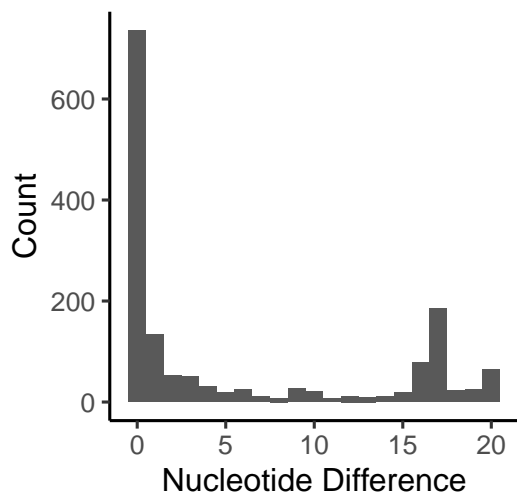
IGHV4-61*05

45 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



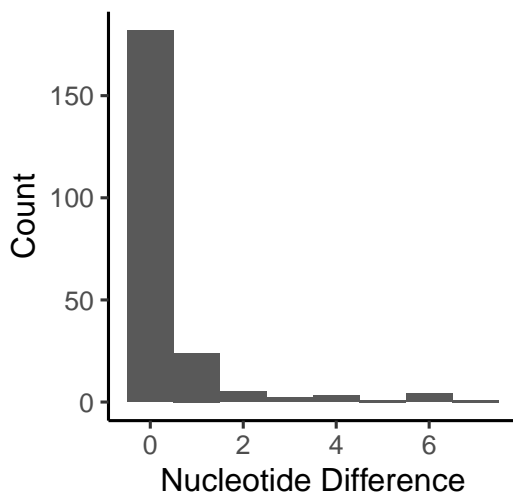
IGHV4-39*02_C258G

2305 sequences assigned
736 (31.9%) exact matches, in which:
659 unique CDR3
7 unique J



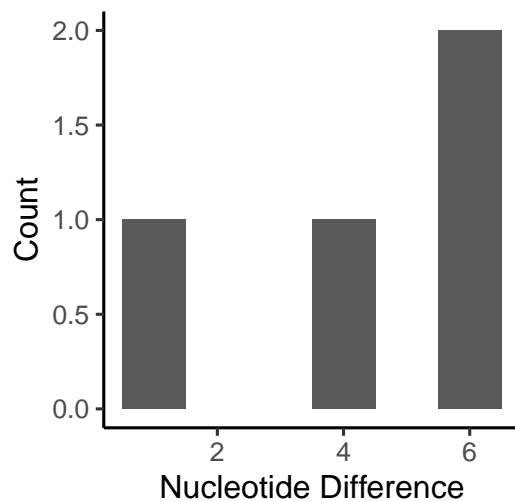
IGHV4-59*12_C300T

223 sequences assigned
182 (81.6%) exact matches, in which:
181 unique CDR3
6 unique J



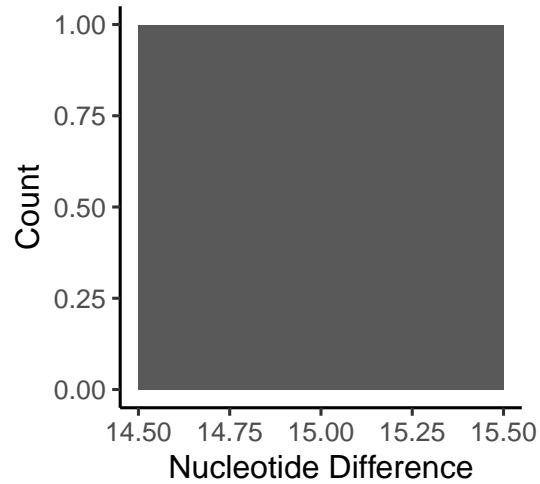
IGHV4-61*08

5 sequences assigned
No exact matches.



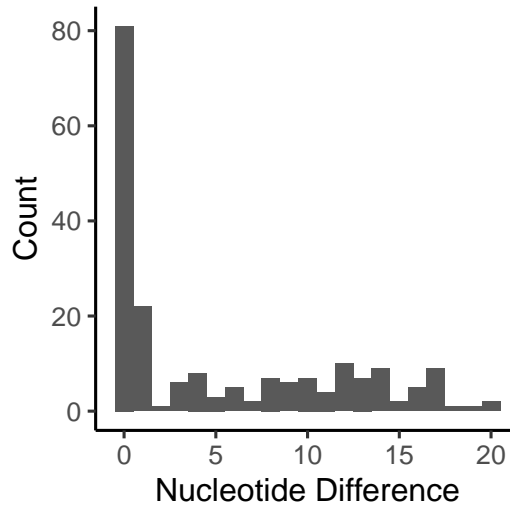
IGHV4/OR15-8*01

2 sequences assigned
No exact matches.



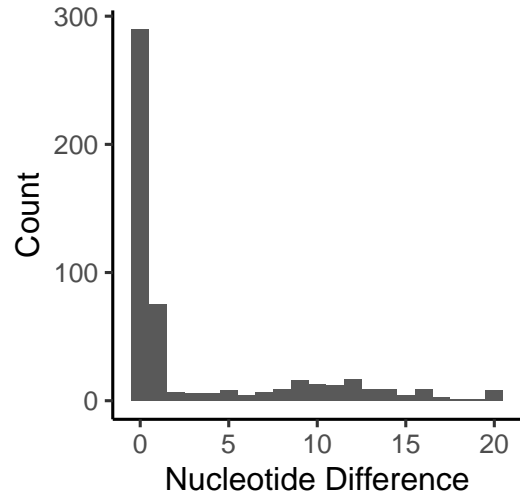
IGHV6-1*01_02

207 sequences assigned
81 (39.1%) exact matches, in which:
77 unique CDR3
7 unique J



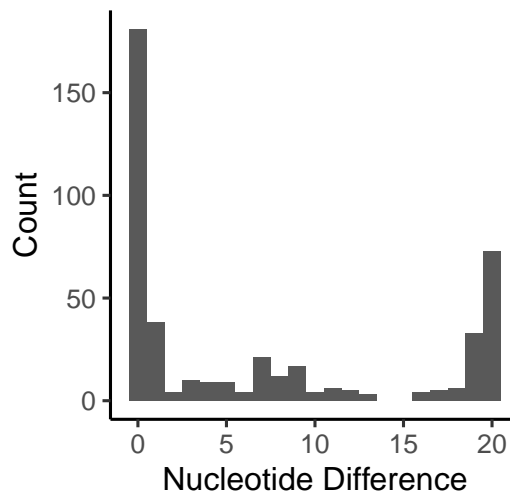
IGHV5-10-1*01_03

533 sequences assigned
290 (54.4%) exact matches, in which:
225 unique CDR3
7 unique J



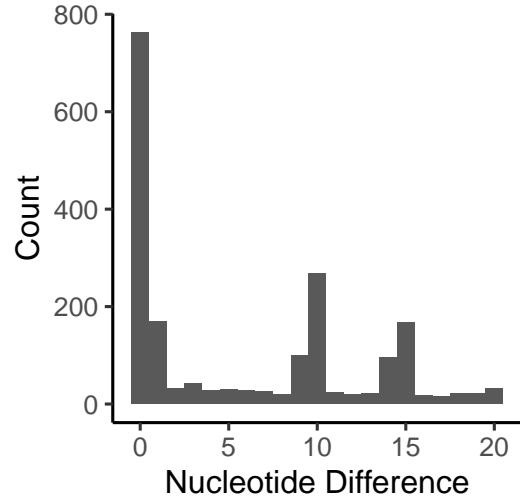
IGHV7-4-1*02

647 sequences assigned
181 (28%) exact matches, in which:
175 unique CDR3
6 unique J

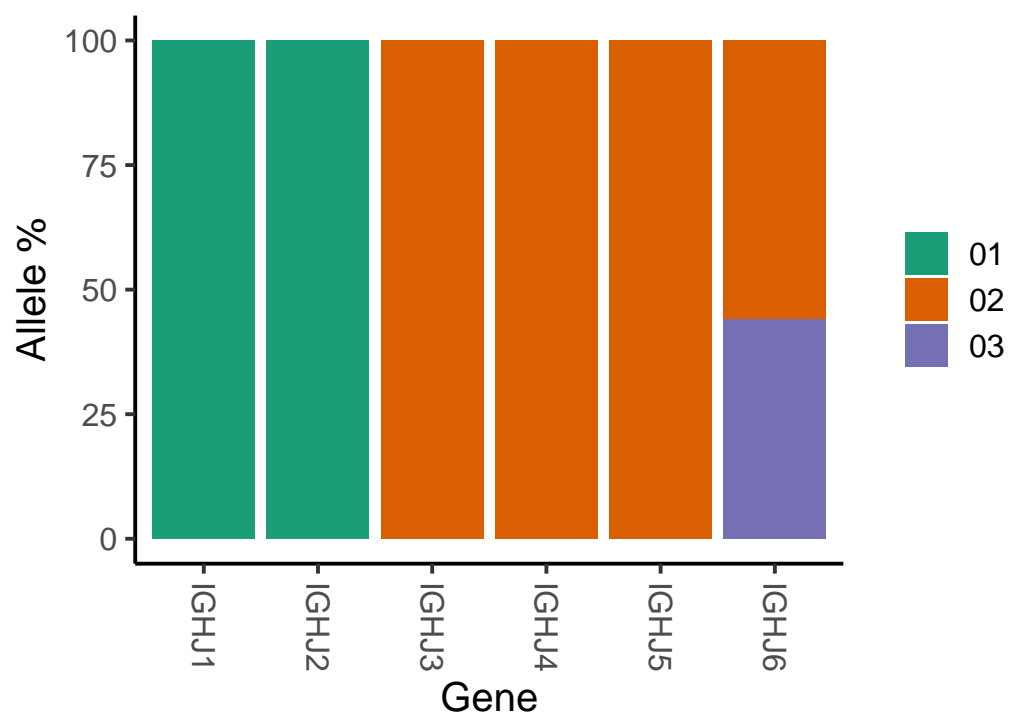


IGHV5-51*07_A128G

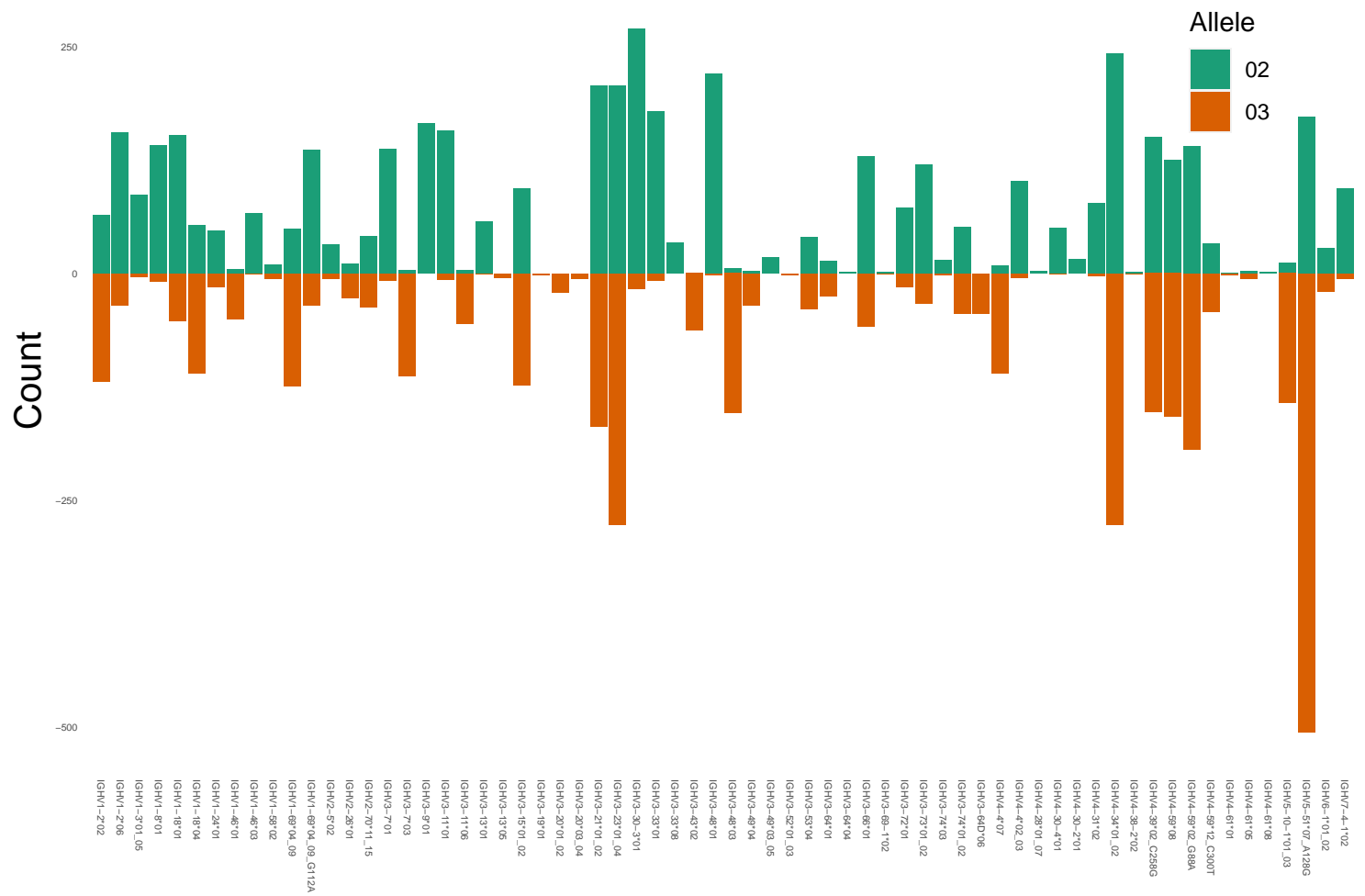
2174 sequences assigned
763 (35.1%) exact matches, in which:
558 unique CDR3
7 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.