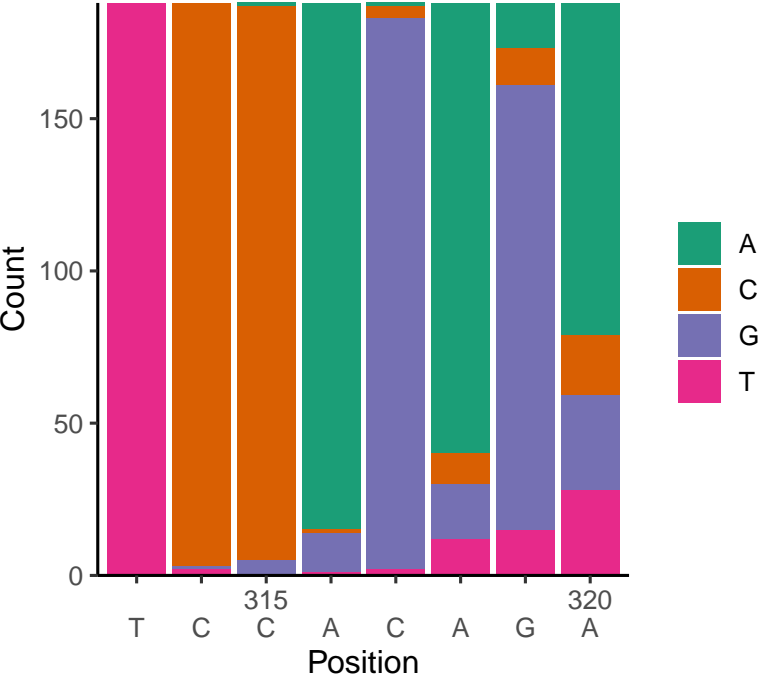
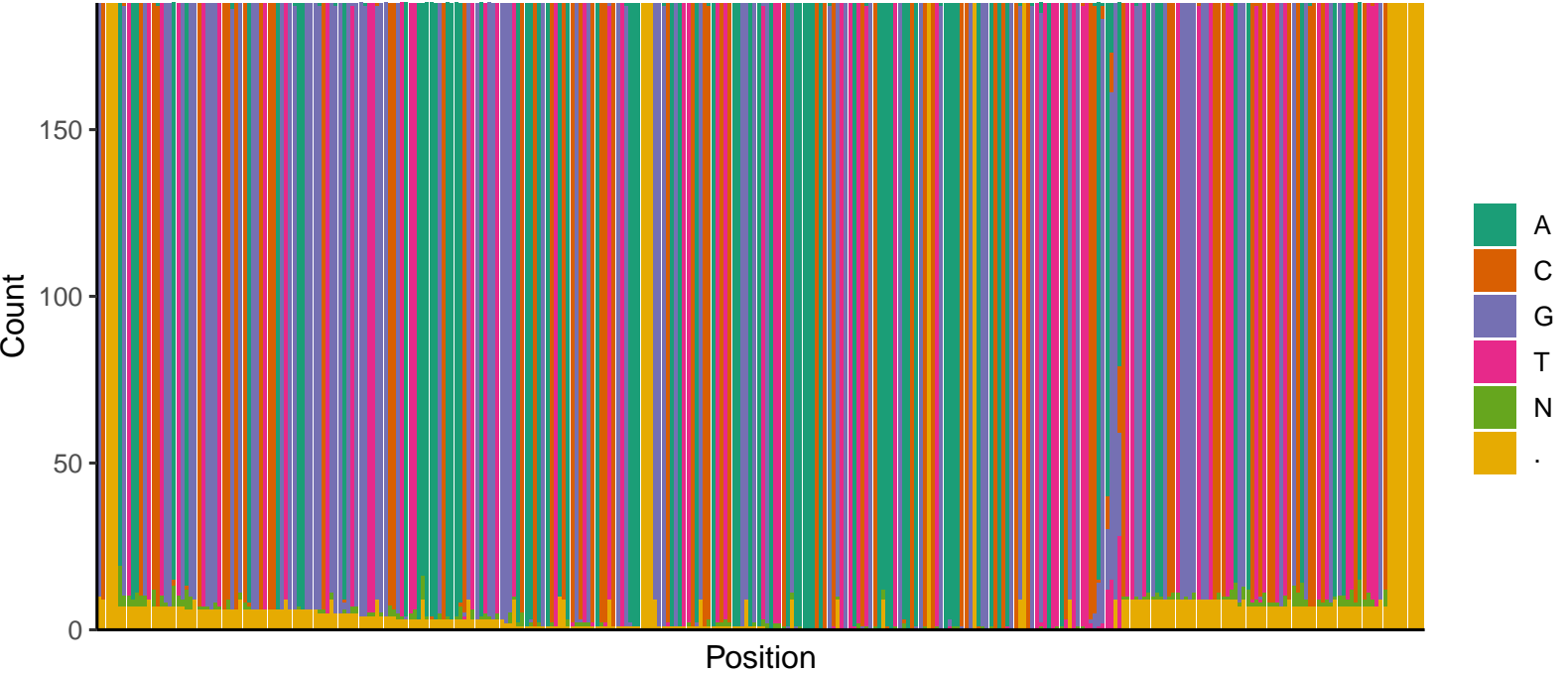


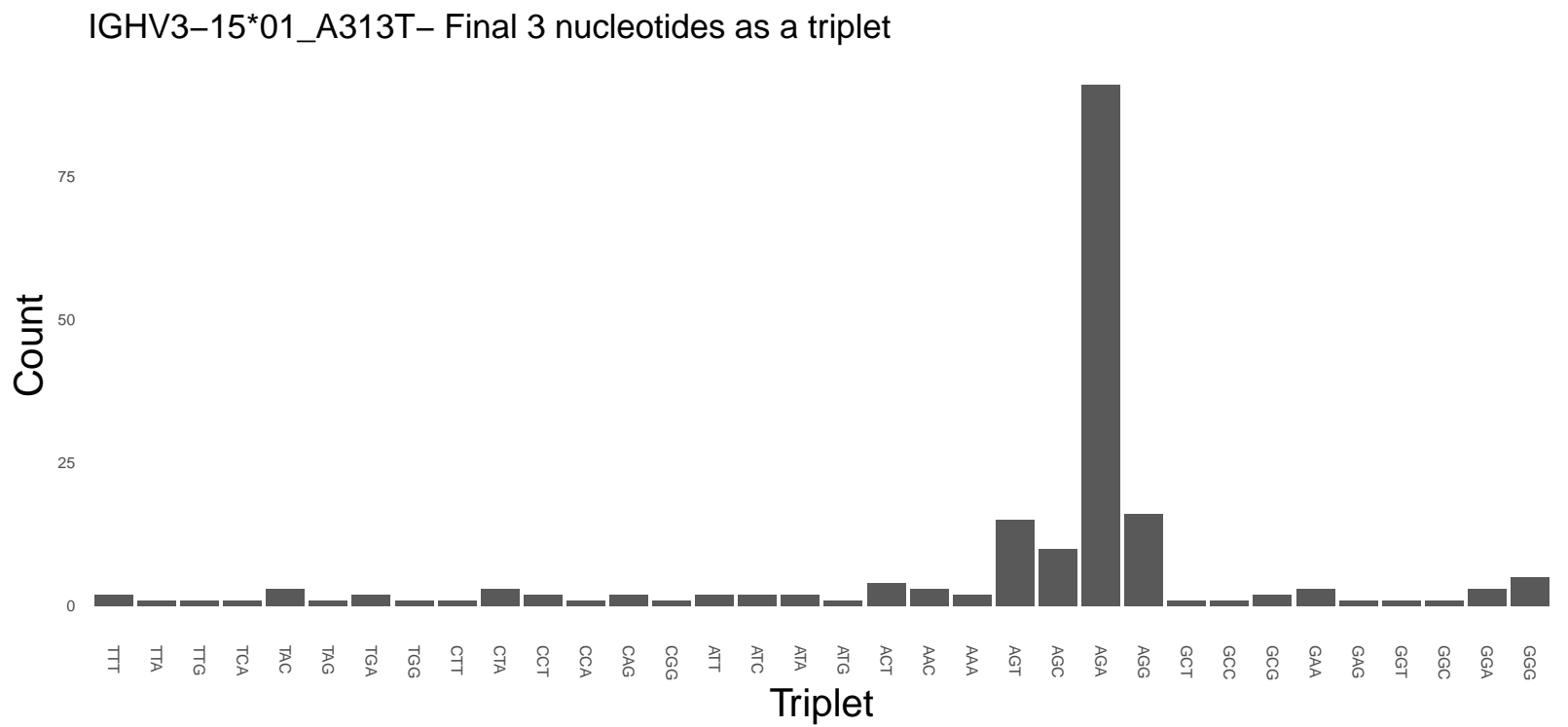
Gene IGHV3-15*01_A313T



Gene IGHV3-15*01_A313T

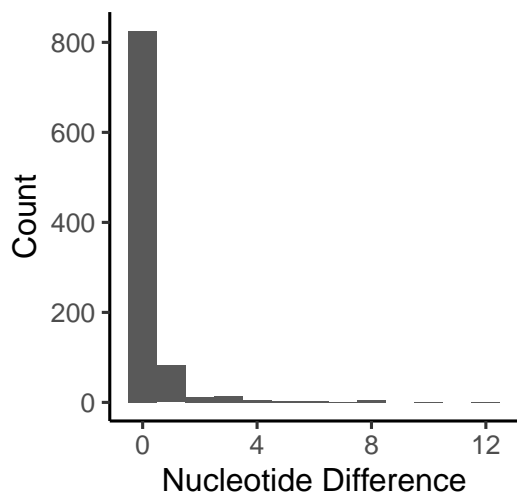


IGHV3-15*01_A313T- Final 3 nucleotides as a triplet



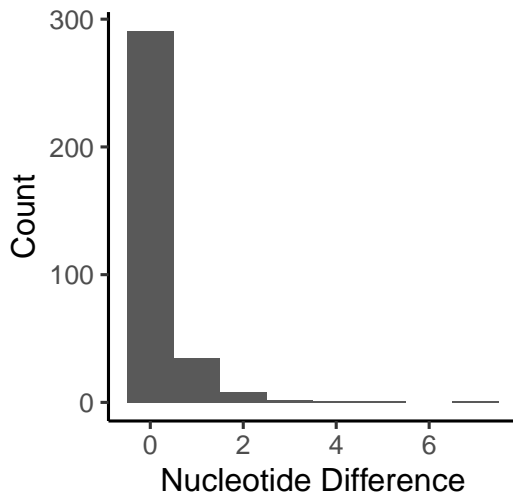
IGHV1-2*02

957 sequences assigned
826 (86.3%) exact matches, in which:
786 unique CDR3
6 unique J



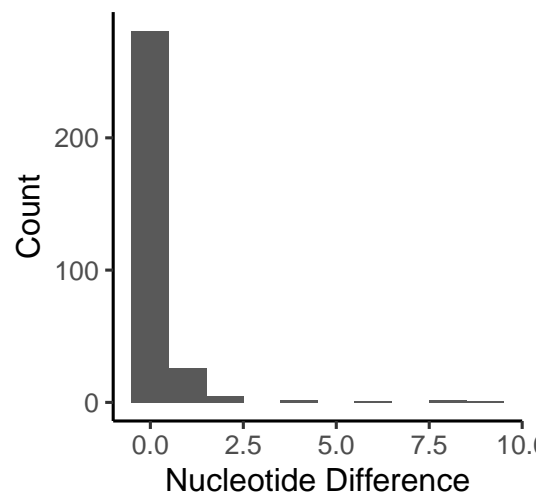
IGHV1-8*03

339 sequences assigned
291 (85.8%) exact matches, in which:
277 unique CDR3
6 unique J



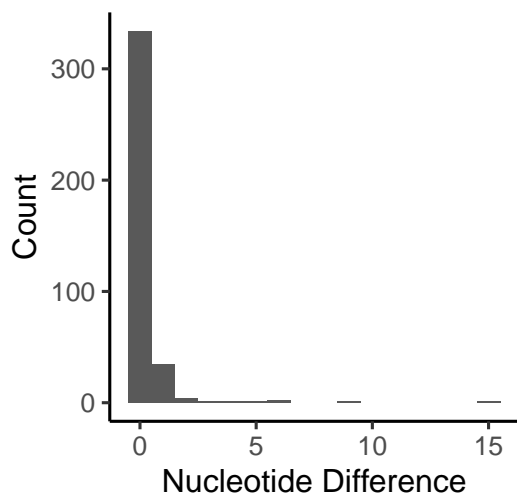
IGHV1-24*01

318 sequences assigned
281 (88.4%) exact matches, in which:
262 unique CDR3
6 unique J



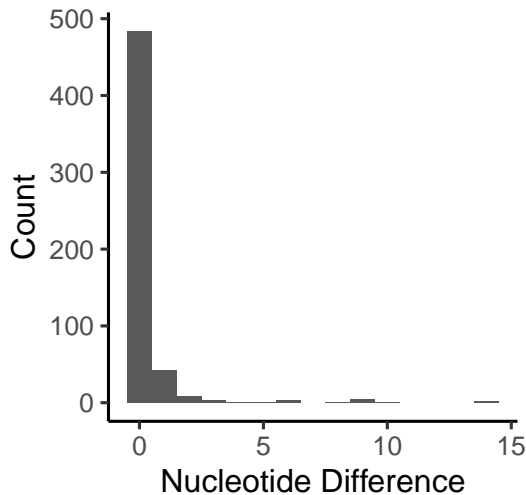
IGHV1-2*04

380 sequences assigned
334 (87.9%) exact matches, in which:
318 unique CDR3
6 unique J



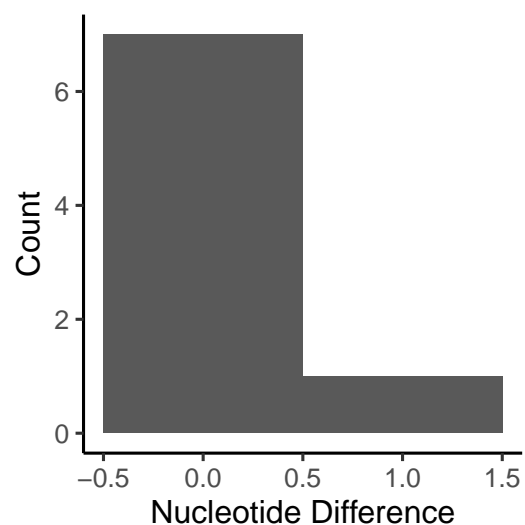
IGHV1-18*01

550 sequences assigned
484 (88%) exact matches, in which:
459 unique CDR3
6 unique J



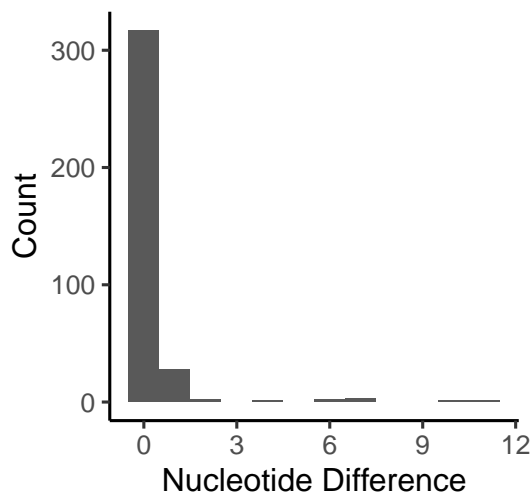
IGHV1-45*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



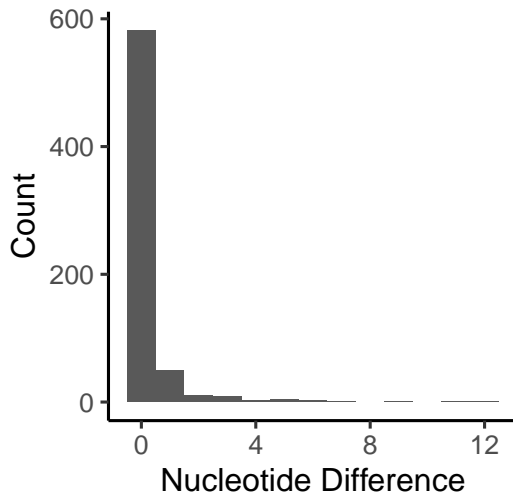
IGHV1-3*01

356 sequences assigned
317 (89%) exact matches, in which:
305 unique CDR3
6 unique J



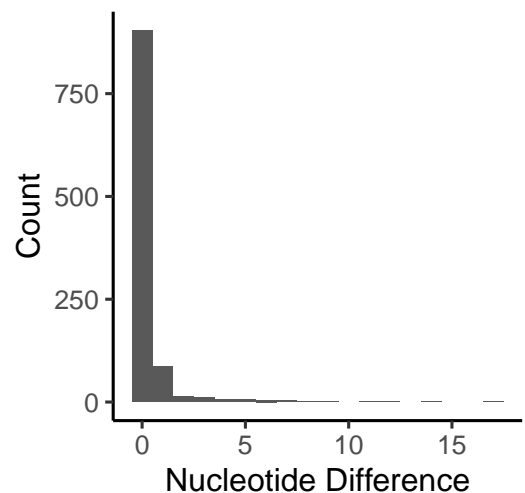
IGHV1-18*04

661 sequences assigned
582 (88%) exact matches, in which:
551 unique CDR3
6 unique J



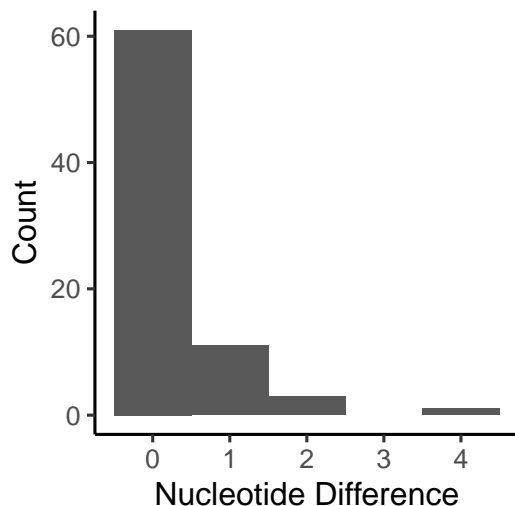
IGHV1-46*01

1046 sequences assigned
904 (86.4%) exact matches, in which:
866 unique CDR3
6 unique J



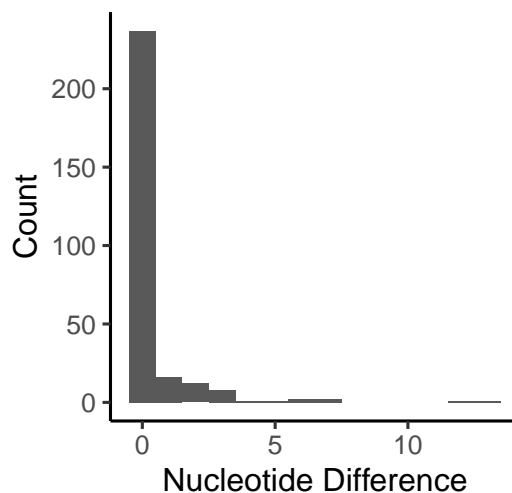
IGHV1-58*02

76 sequences assigned
61 (80.3%) exact matches, in which:
56 unique CDR3
5 unique J



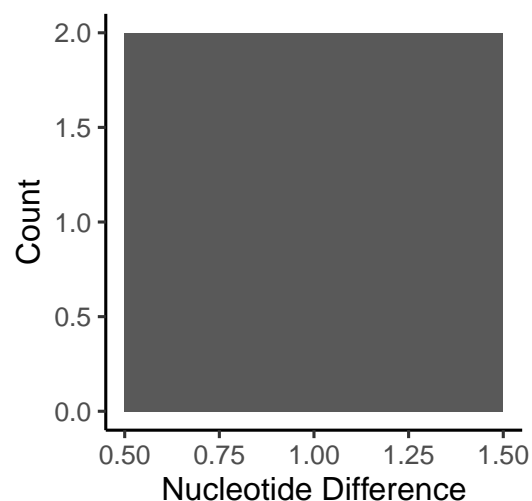
IGHV2-5*02

281 sequences assigned
237 (84.3%) exact matches, in which:
224 unique CDR3
6 unique J



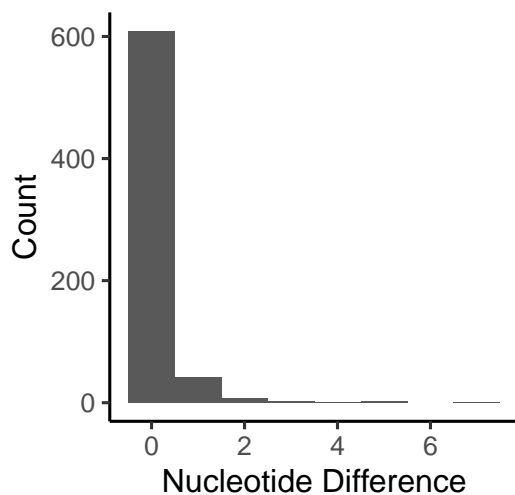
IGHV2-70D*04

2 sequences assigned
No exact matches.



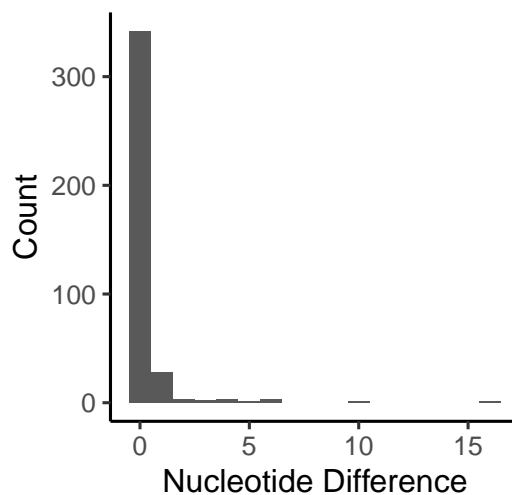
IGHV1-69*02

665 sequences assigned
609 (91.6%) exact matches, in which:
576 unique CDR3
6 unique J



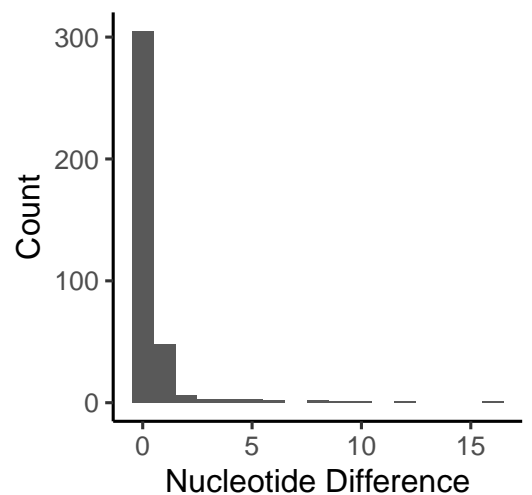
IGHV2-26*01

384 sequences assigned
342 (89.1%) exact matches, in which:
337 unique CDR3
6 unique J



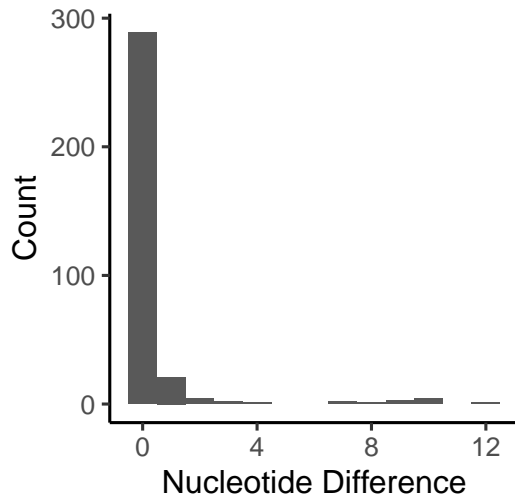
IGHV3-7*01

377 sequences assigned
305 (80.9%) exact matches, in which:
294 unique CDR3
6 unique J



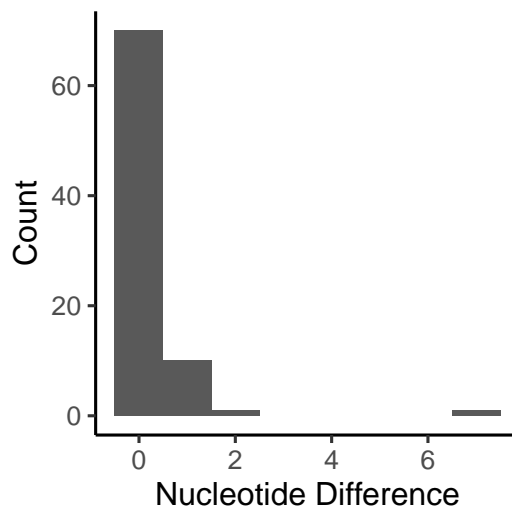
IGHV2-5*01

328 sequences assigned
289 (88.1%) exact matches, in which:
273 unique CDR3
6 unique J



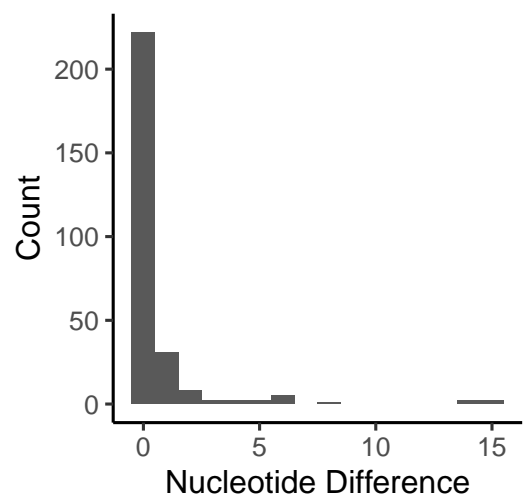
IGHV2-70*01

82 sequences assigned
70 (85.4%) exact matches, in which:
70 unique CDR3
5 unique J



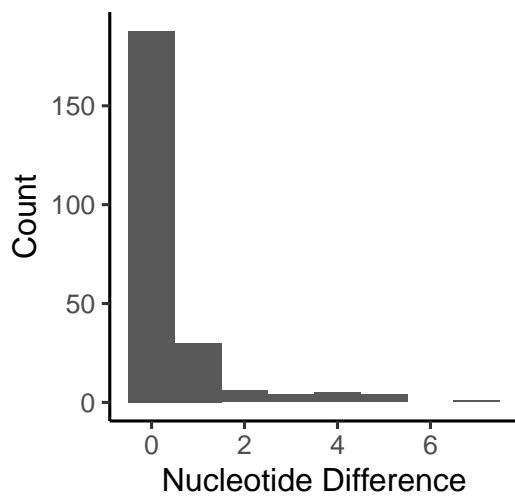
IGHV3-7*03

277 sequences assigned
222 (80.1%) exact matches, in which:
216 unique CDR3
6 unique J



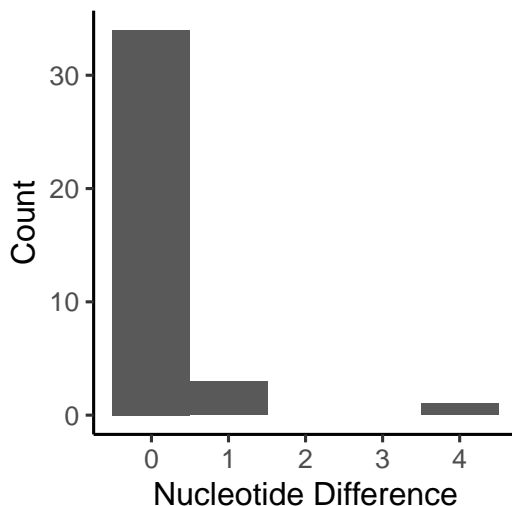
IGHV3-9*03

238 sequences assigned
188 (79%) exact matches, in which:
177 unique CDR3
6 unique J



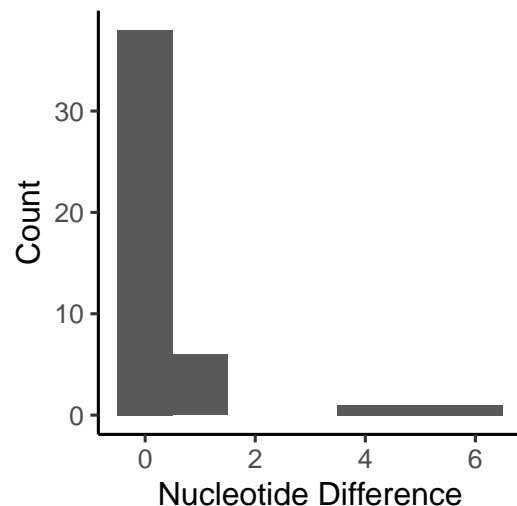
IGHV3-13*05

38 sequences assigned
34 (89.5%) exact matches, in which:
34 unique CDR3
4 unique J



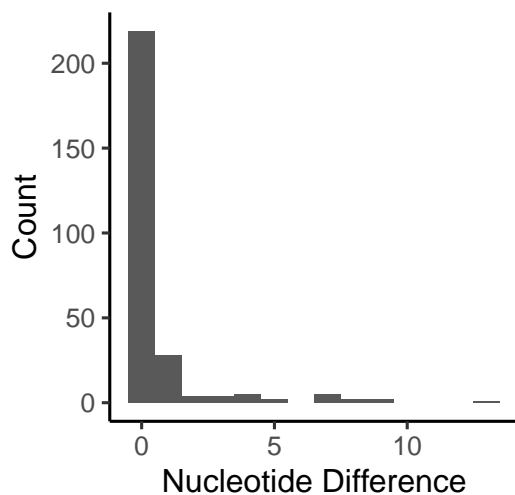
IGHV3-20*01

47 sequences assigned
38 (80.9%) exact matches, in which:
34 unique CDR3
5 unique J



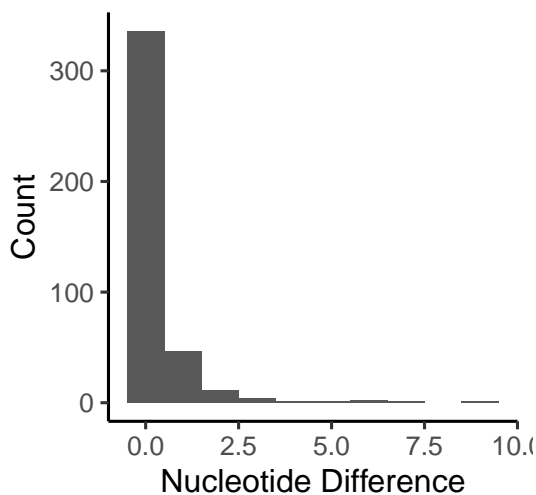
IGHV3-11*04

272 sequences assigned
219 (80.5%) exact matches, in which:
211 unique CDR3
6 unique J



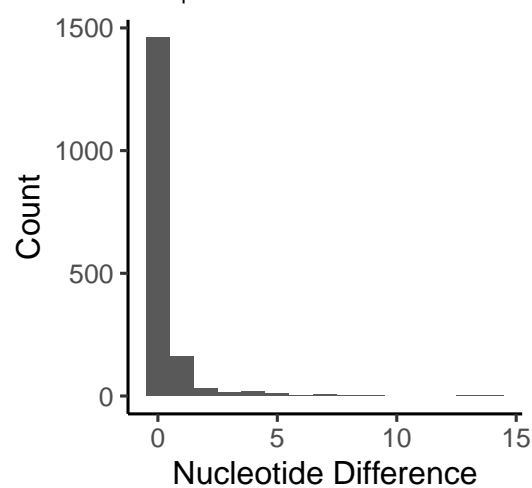
IGHV3-15*01

404 sequences assigned
336 (83.2%) exact matches, in which:
320 unique CDR3
6 unique J



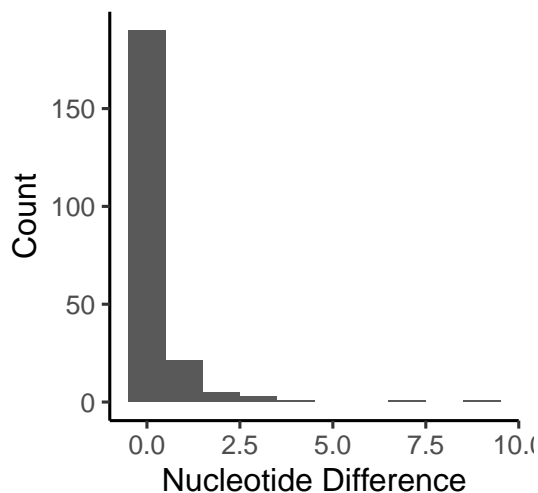
IGHV3-21*01

1710 sequences assigned
1460 (85.4%) exact matches, in which:
1383 unique CDR3
6 unique J



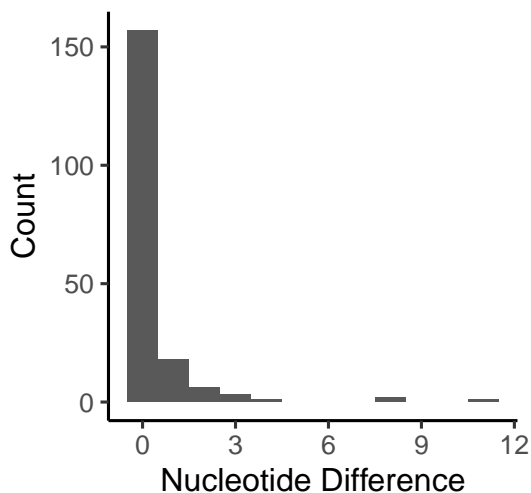
IGHV3-11*06

222 sequences assigned
190 (85.6%) exact matches, in which:
182 unique CDR3
6 unique J



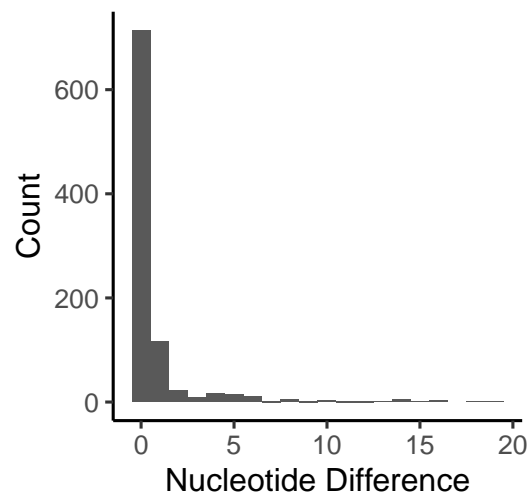
IGHV3-15*01_A313T

188 sequences assigned
157 (83.5%) exact matches, in which:
150 unique CDR3
6 unique J



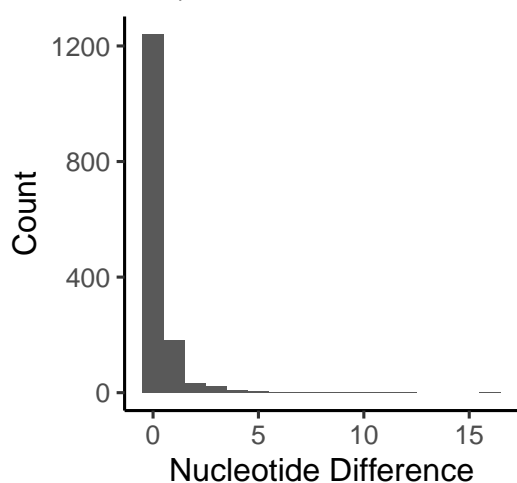
IGHV3-23*04

931 sequences assigned
714 (76.7%) exact matches, in which:
683 unique CDR3
6 unique J



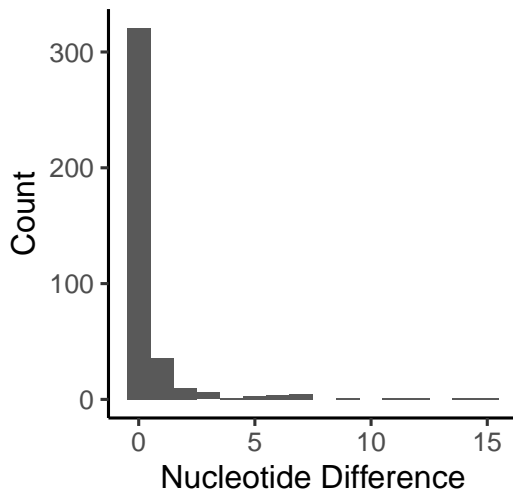
IGHV3-30-3*01

1505 sequences assigned
1240 (82.4%) exact matches, in which:
1184 unique CDR3
6 unique J



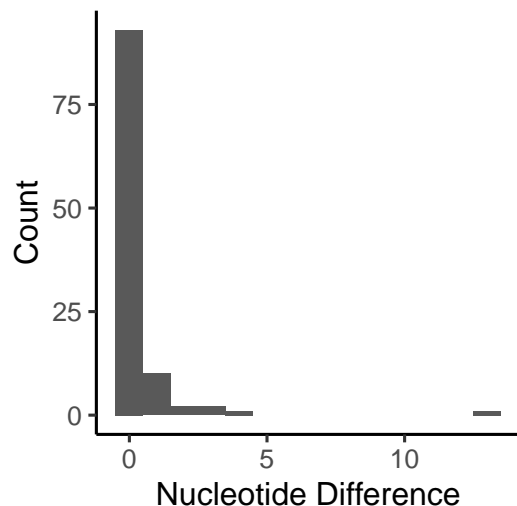
IGHV3-48*02

391 sequences assigned
321 (82.1%) exact matches, in which:
301 unique CDR3
6 unique J



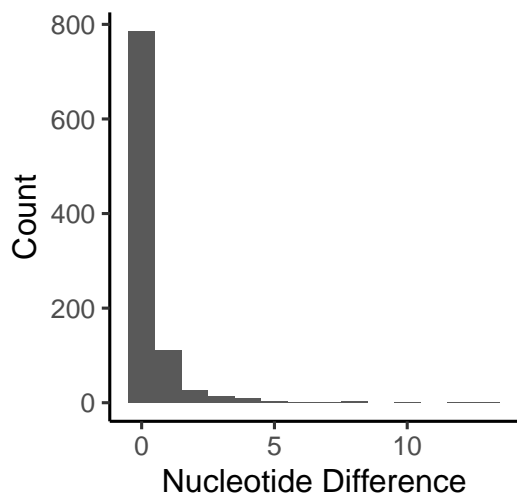
IGHV3-49*05

109 sequences assigned
93 (85.3%) exact matches, in which:
91 unique CDR3
6 unique J



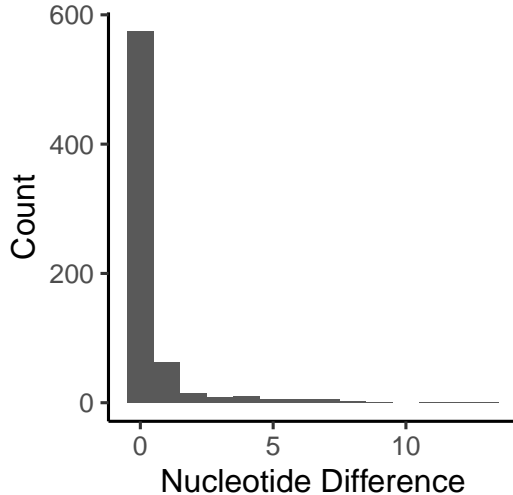
IGHV3-33*01

957 sequences assigned
786 (82.1%) exact matches, in which:
738 unique CDR3
6 unique J



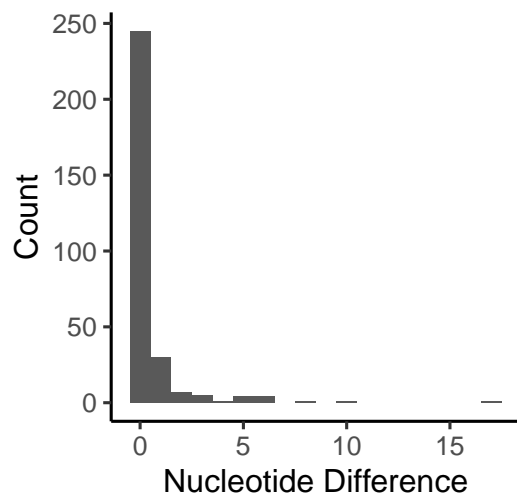
IGHV3-48*03

694 sequences assigned
575 (82.9%) exact matches, in which:
545 unique CDR3
6 unique J



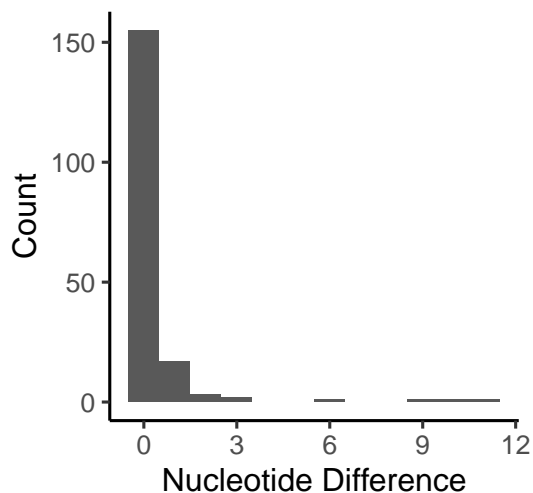
IGHV3-53*01

300 sequences assigned
245 (81.7%) exact matches, in which:
238 unique CDR3
6 unique J



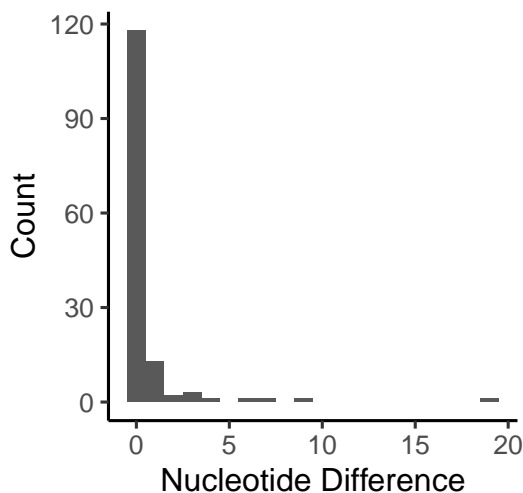
IGHV3-43*01

181 sequences assigned
155 (85.6%) exact matches, in which:
147 unique CDR3
6 unique J



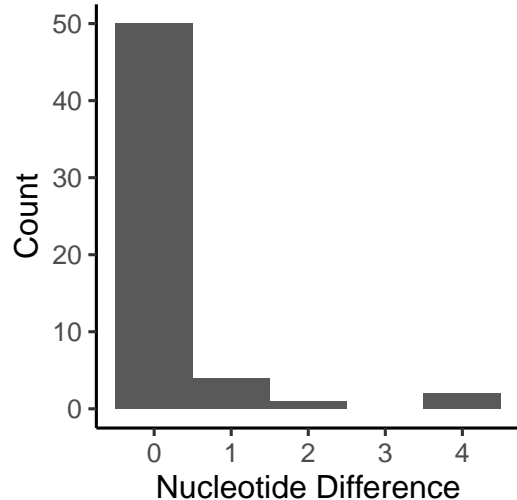
IGHV3-49*03

141 sequences assigned
118 (83.7%) exact matches, in which:
114 unique CDR3
6 unique J



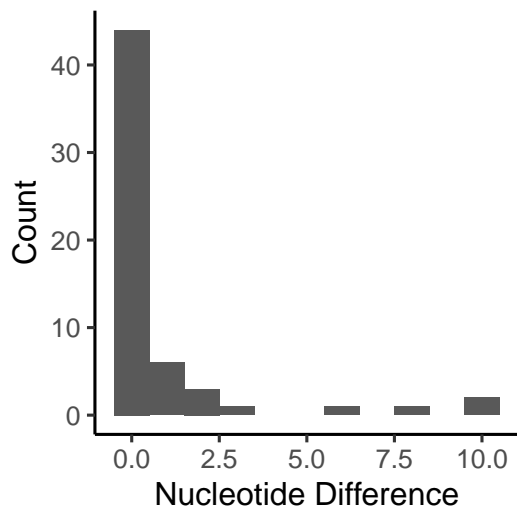
IGHV3-53*04

57 sequences assigned
50 (87.7%) exact matches, in which:
45 unique CDR3
6 unique J



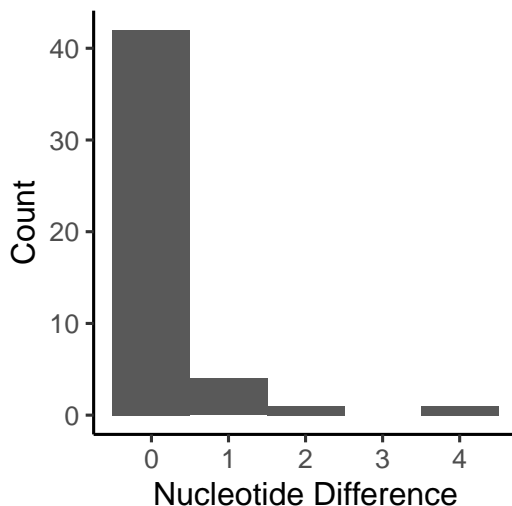
IGHV3-64*01

58 sequences assigned
44 (75.9%) exact matches, in which:
43 unique CDR3
5 unique J



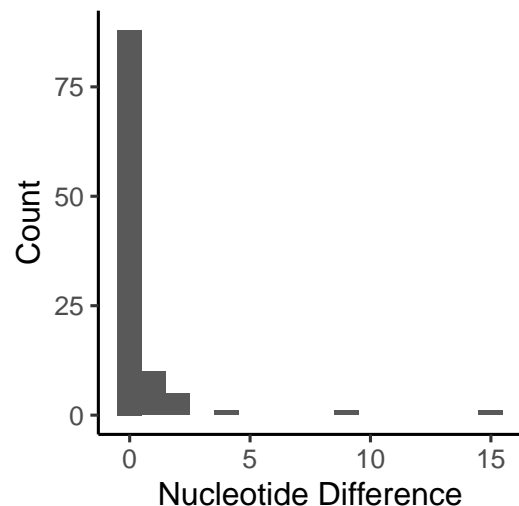
IGHV3-73*01

48 sequences assigned
42 (87.5%) exact matches, in which:
41 unique CDR3
5 unique J



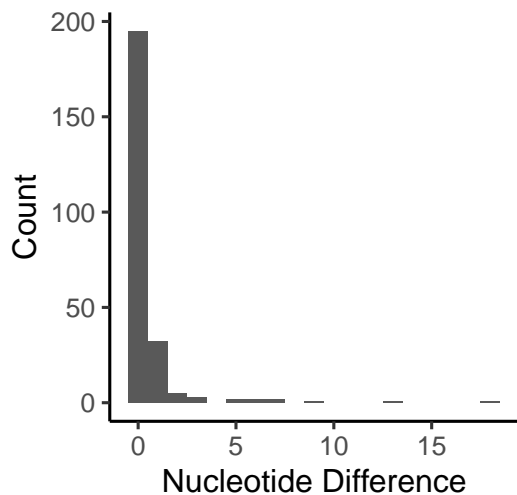
IGHV3-43D*04

106 sequences assigned
88 (83%) exact matches, in which:
84 unique CDR3
4 unique J



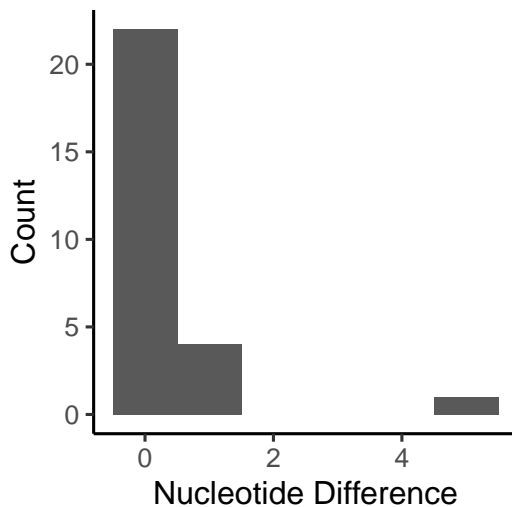
IGHV3-66*02

244 sequences assigned
195 (79.9%) exact matches, in which:
182 unique CDR3
6 unique J



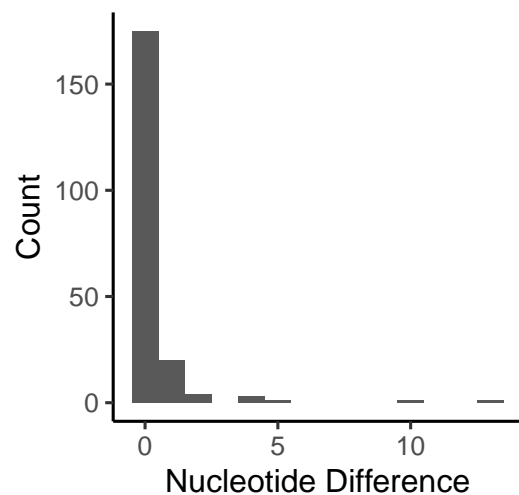
IGHV3-73*02

27 sequences assigned
22 (81.5%) exact matches, in which:
21 unique CDR3
4 unique J



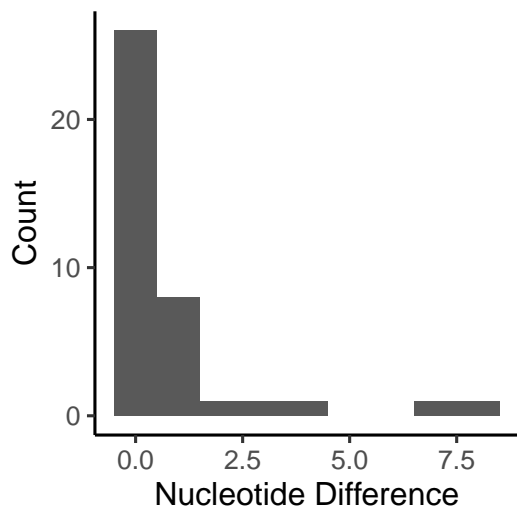
IGHV3-64D*06

205 sequences assigned
175 (85.4%) exact matches, in which:
160 unique CDR3
6 unique J



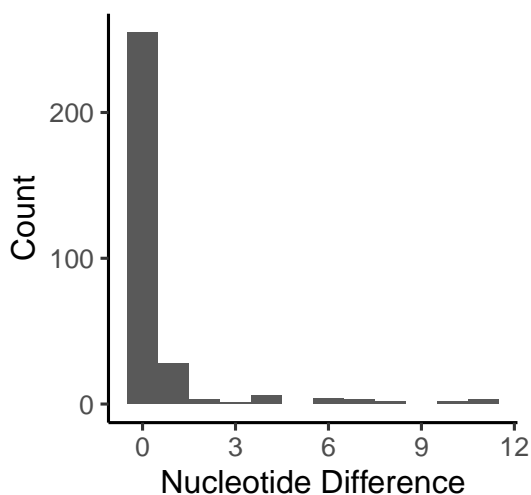
IGHV3-72*01

40 sequences assigned
26 (65%) exact matches, in which:
24 unique CDR3
5 unique J



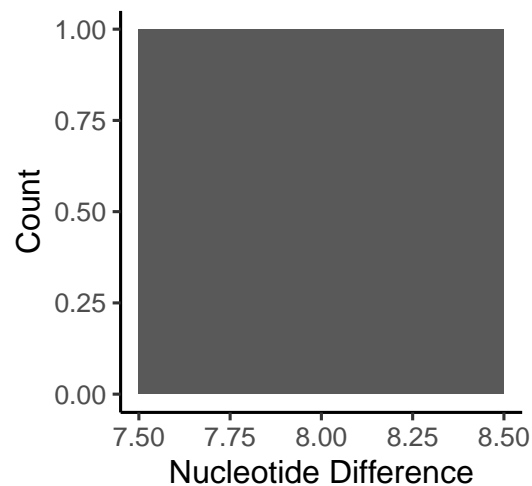
IGHV3-74*01

307 sequences assigned
255 (83.1%) exact matches, in which:
244 unique CDR3
6 unique J



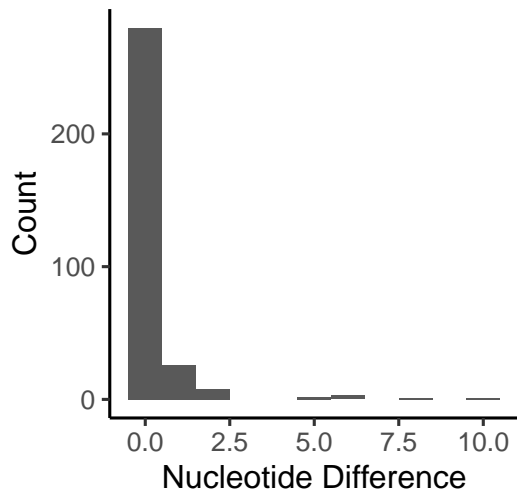
IGHV3-NL1*01

1 sequences assigned
No exact matches.



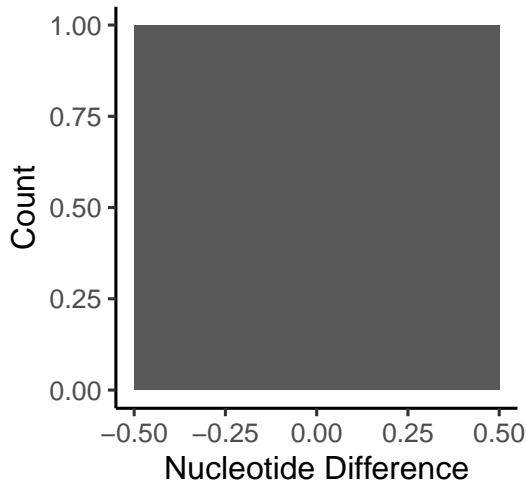
IGHV4-4*02

321 sequences assigned
280 (87.2%) exact matches, in which:
263 unique CDR3
6 unique J



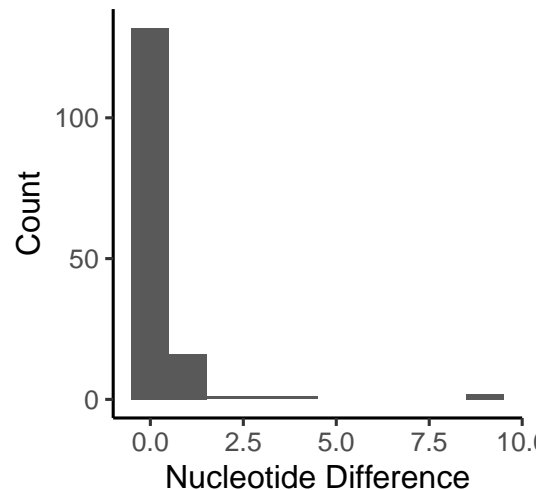
IGHV4-28*07

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



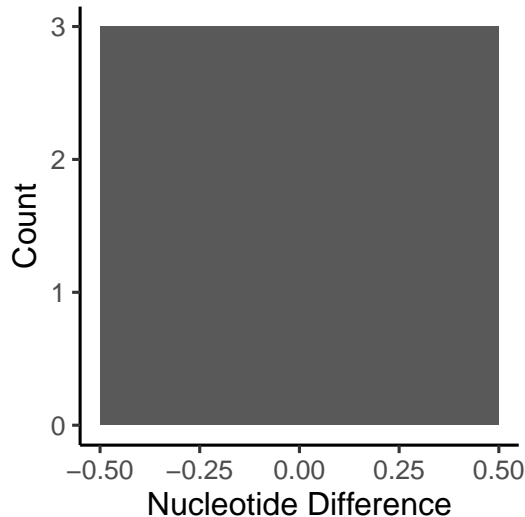
IGHV4-30-4*07

153 sequences assigned
132 (86.3%) exact matches, in which:
123 unique CDR3
5 unique J



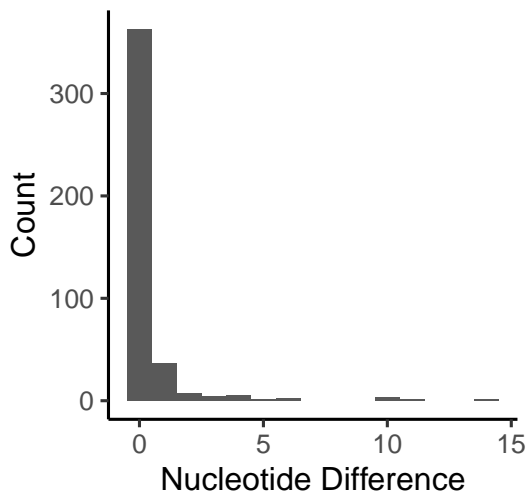
IGHV4-28*01

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



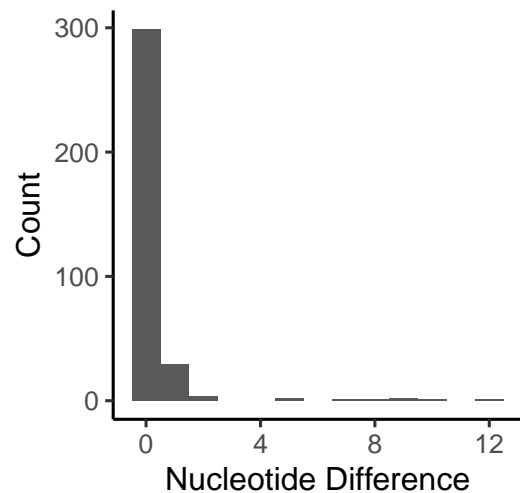
IGHV4-30-2*01

424 sequences assigned
363 (85.6%) exact matches, in which:
348 unique CDR3
6 unique J



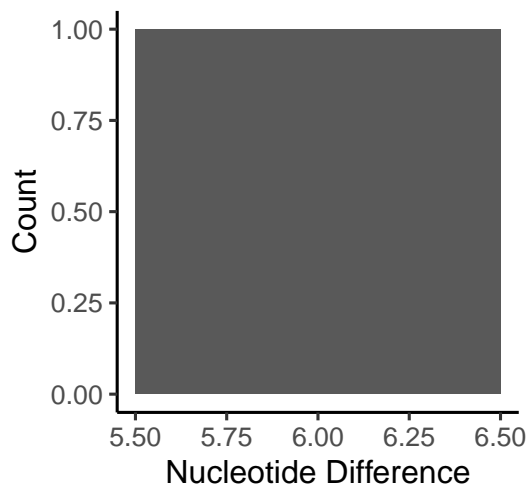
IGHV4-30-4*08

340 sequences assigned
299 (87.9%) exact matches, in which:
284 unique CDR3
6 unique J



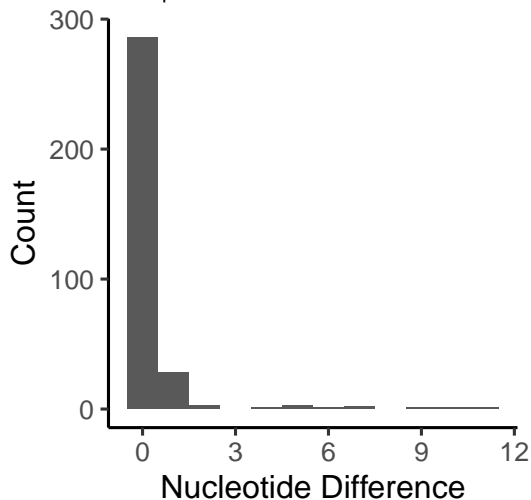
IGHV4-28*03

1 sequences assigned
No exact matches.



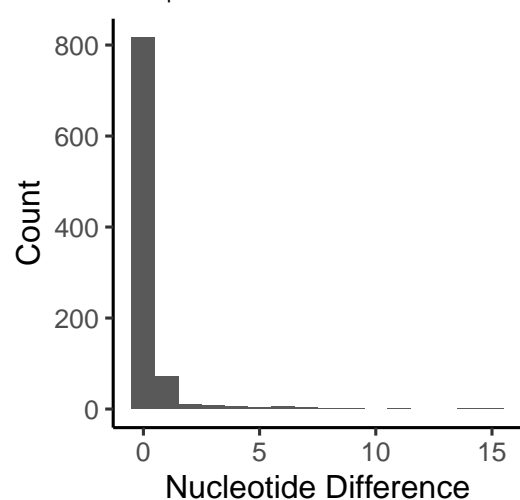
IGHV4-30-4*01

328 sequences assigned
286 (87.2%) exact matches, in which:
273 unique CDR3
6 unique J



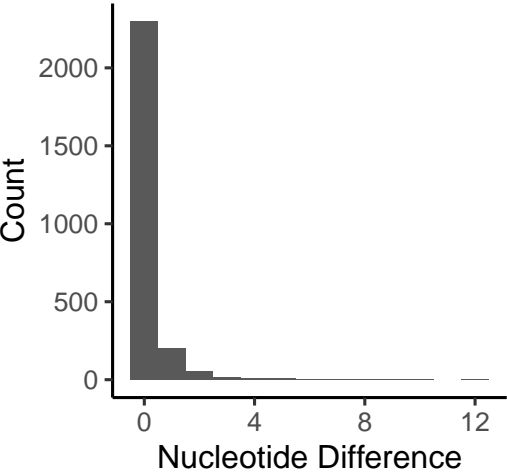
IGHV4-31*03

929 sequences assigned
817 (87.9%) exact matches, in which:
781 unique CDR3
6 unique J



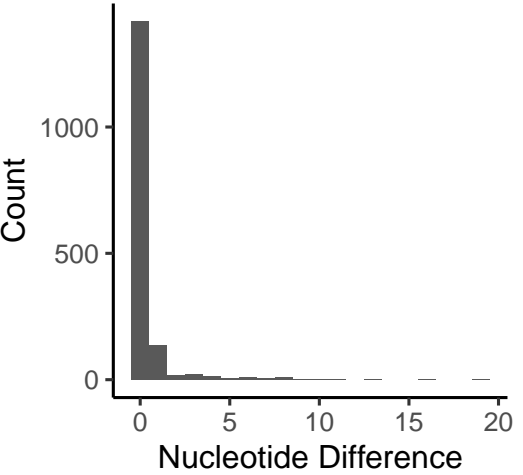
IGHV4-34*01

2599 sequences assigned
2298 (88.4%) exact matches, in which:
2161 unique CDR3
6 unique J



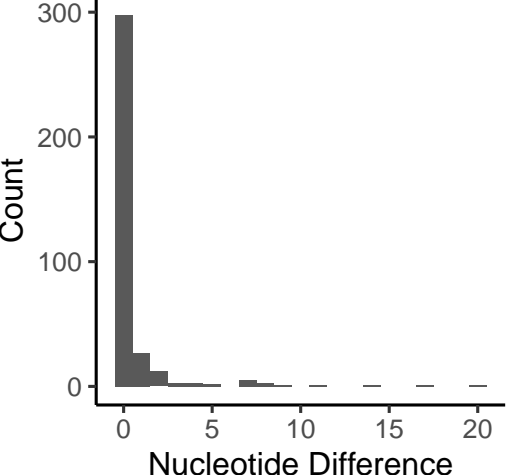
IGHV4-39*07

1638 sequences assigned
1418 (86.6%) exact matches, in which:
1323 unique CDR3
6 unique J



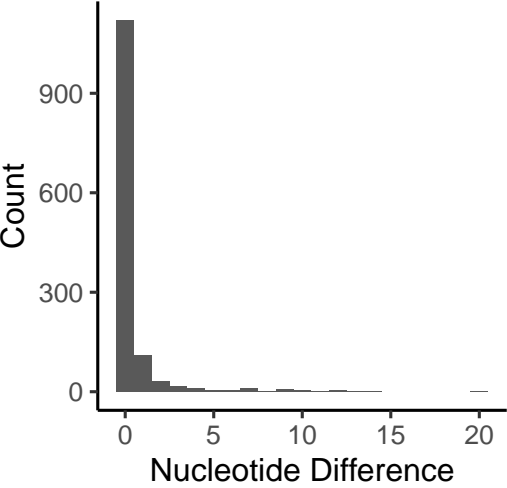
IGHV4-59*12

358 sequences assigned
298 (83.2%) exact matches, in which:
278 unique CDR3
6 unique J



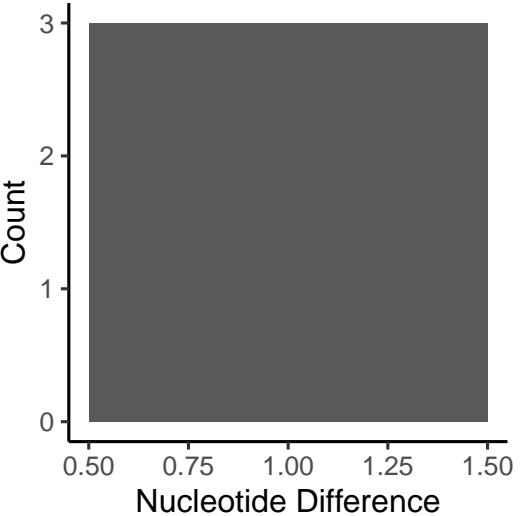
IGHV4-38-2*01

1340 sequences assigned
1121 (83.7%) exact matches, in which:
1026 unique CDR3
6 unique J



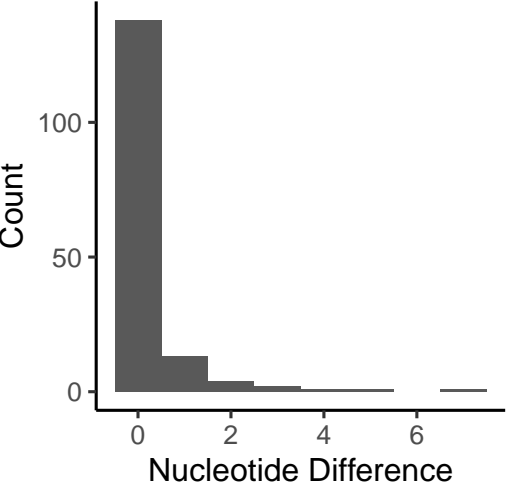
IGHV4-55*08

3 sequences assigned
No exact matches.



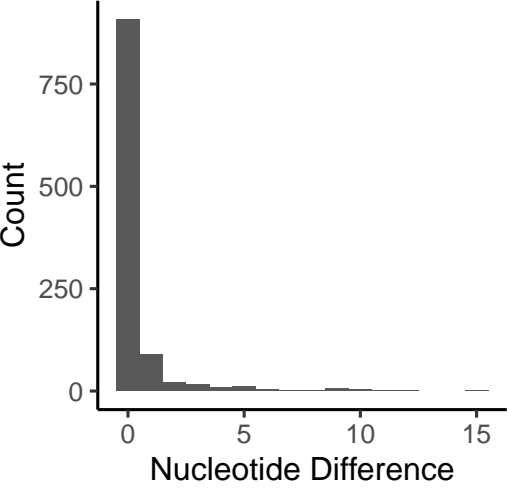
IGHV4-61*01

160 sequences assigned
138 (86.2%) exact matches, in which:
135 unique CDR3
5 unique J



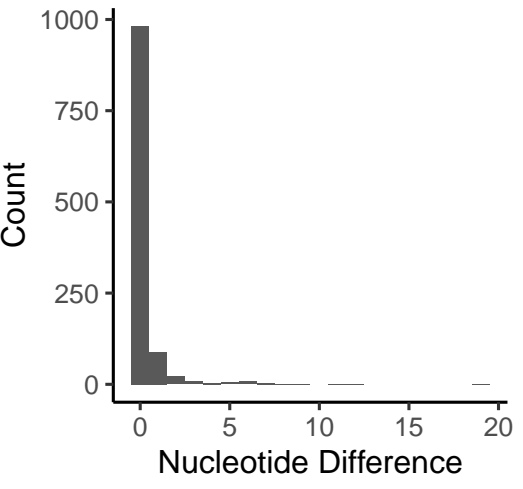
IGHV4-39*01

1074 sequences assigned
908 (84.5%) exact matches, in which:
865 unique CDR3
6 unique J



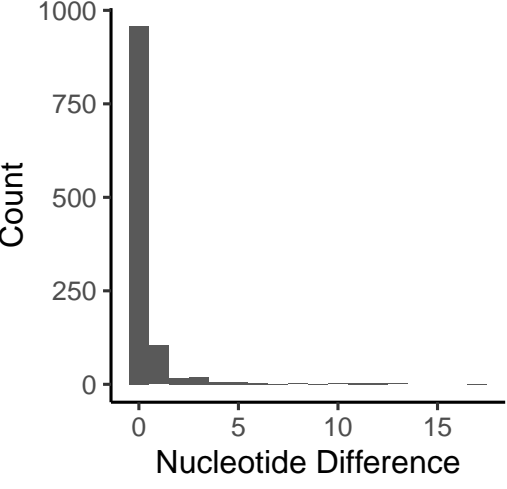
IGHV4-59*01

1129 sequences assigned
982 (87%) exact matches, in which:
934 unique CDR3
6 unique J



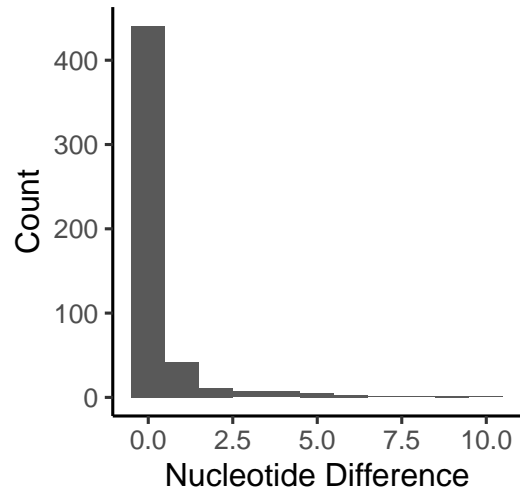
IGHV4-61*02

1130 sequences assigned
958 (84.8%) exact matches, in which:
909 unique CDR3
6 unique J



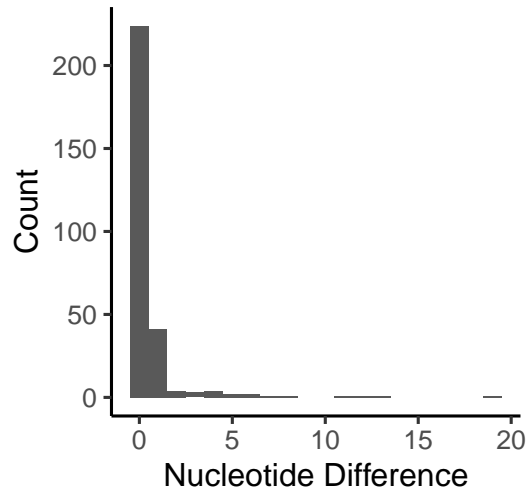
IGHV5-10-1*03

522 sequences assigned
441 (84.5%) exact matches, in which:
418 unique CDR3
6 unique J



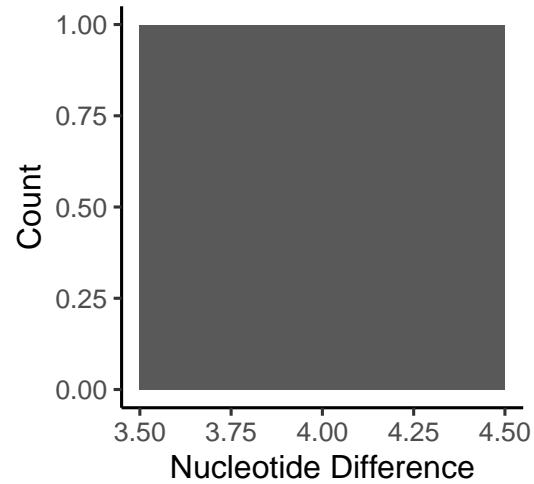
IGHV6-1*01

286 sequences assigned
224 (78.3%) exact matches, in which:
215 unique CDR3
6 unique J



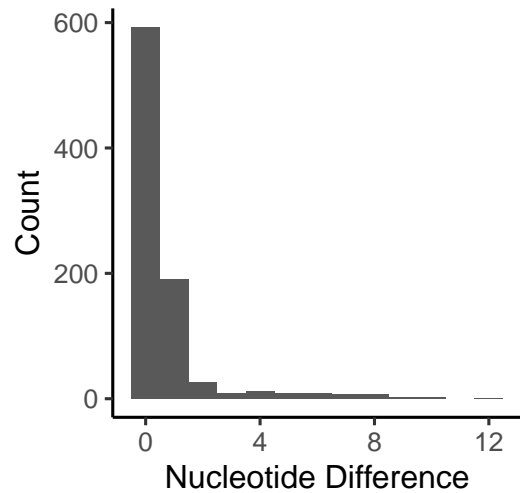
IGHV7-81*01

1 sequences assigned
No exact matches.



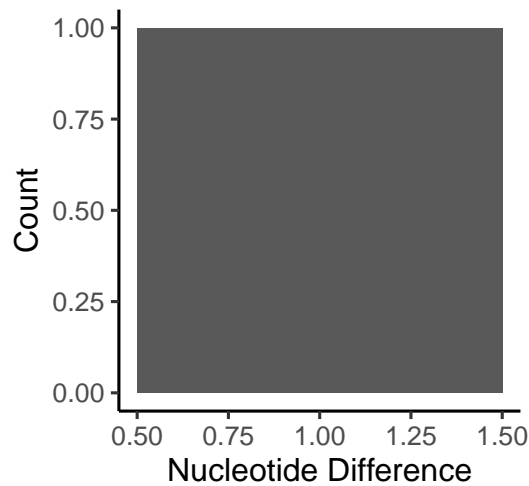
IGHV5-51*01

868 sequences assigned
593 (68.3%) exact matches, in which:
562 unique CDR3
6 unique J



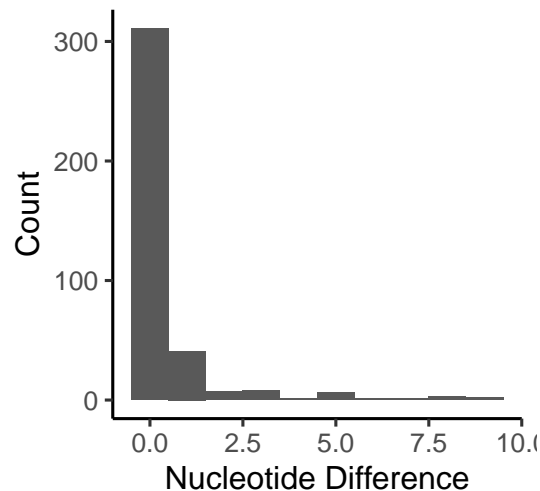
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



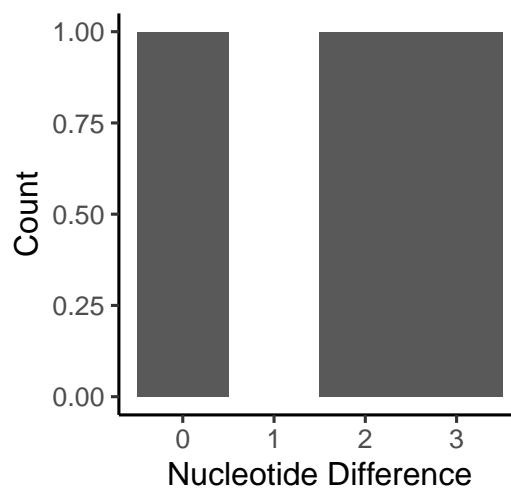
IGHV5-51*03

382 sequences assigned
311 (81.4%) exact matches, in which:
294 unique CDR3
6 unique J

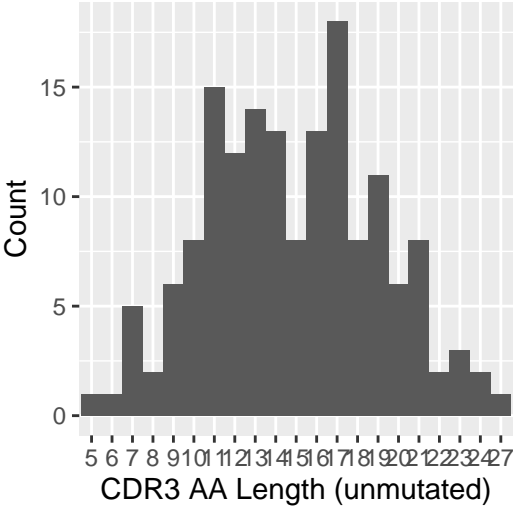


IGHV7-4-1*01

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



IGHV3-15*01_A313T





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