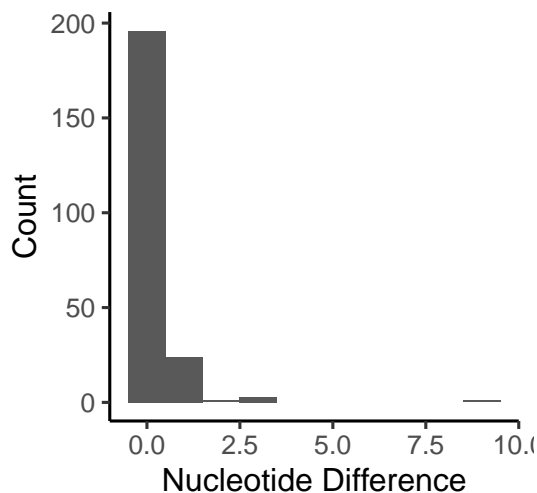


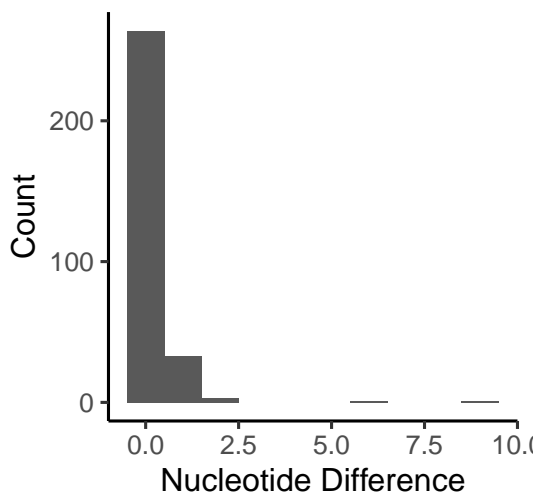
IGHV1-2*04

225 sequences assigned
196 (87.1%) exact matches, in which:
191 unique CDR3
5 unique J



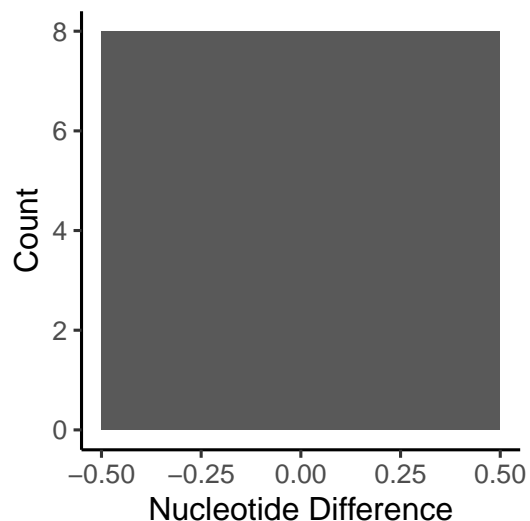
IGHV1-8*01

302 sequences assigned
264 (87.4%) exact matches, in which:
259 unique CDR3
6 unique J



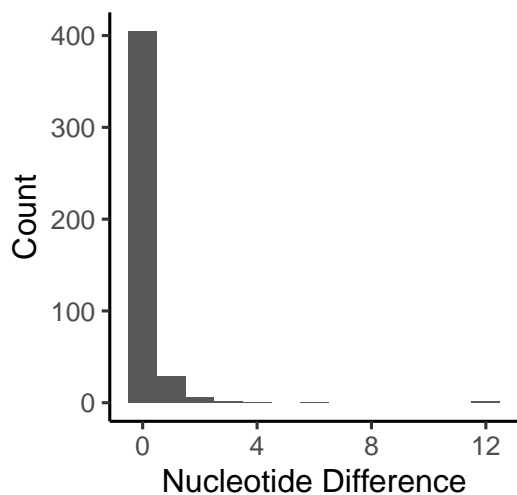
IGHV1-45*02

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
4 unique J



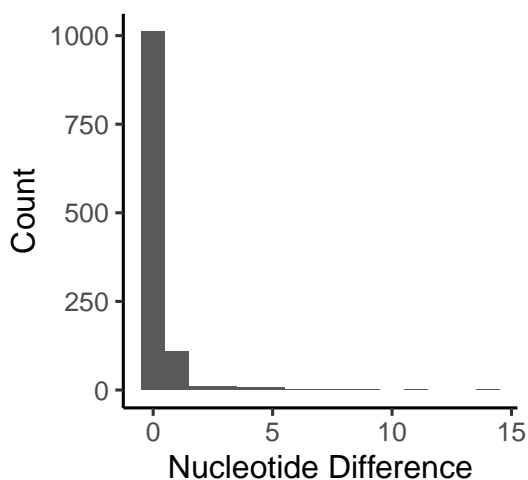
IGHV1-2*06

446 sequences assigned
405 (90.8%) exact matches, in which:
400 unique CDR3
6 unique J



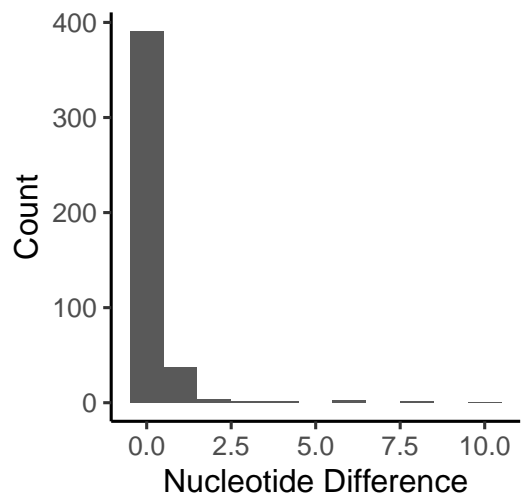
IGHV1-18*01

1159 sequences assigned
1011 (87.2%) exact matches, in which:
986 unique CDR3
6 unique J



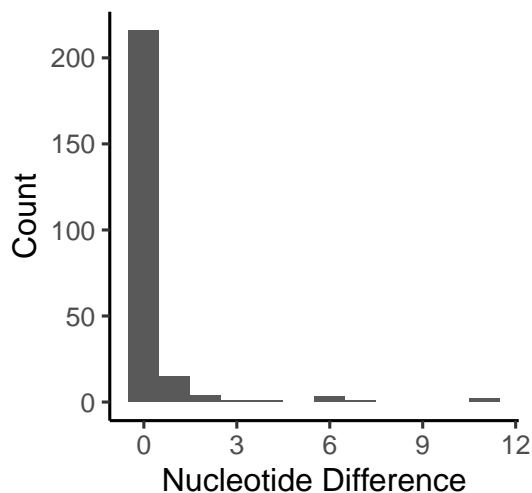
IGHV1-46*01

442 sequences assigned
391 (88.5%) exact matches, in which:
381 unique CDR3
6 unique J



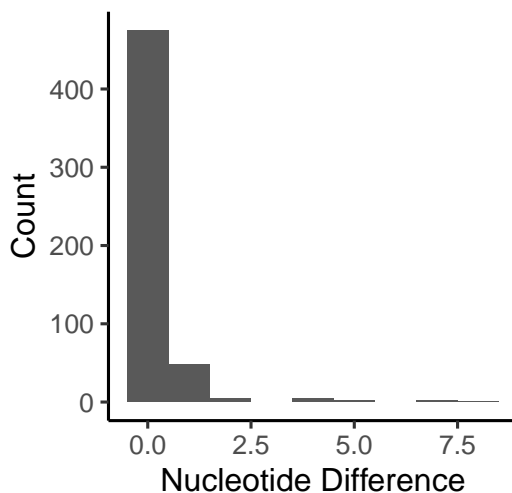
IGHV1-3*01

243 sequences assigned
216 (88.9%) exact matches, in which:
211 unique CDR3
6 unique J



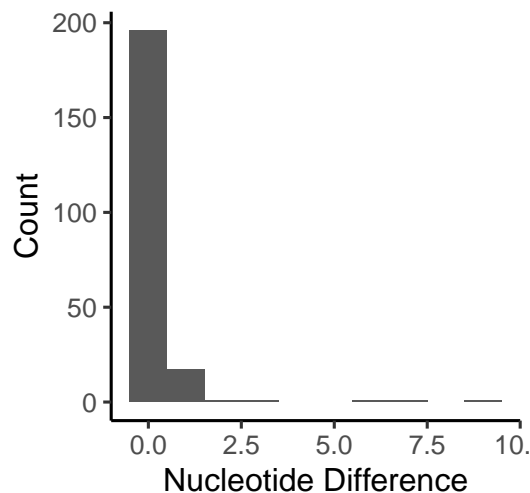
IGHV1-24*01

538 sequences assigned
475 (88.3%) exact matches, in which:
467 unique CDR3
6 unique J



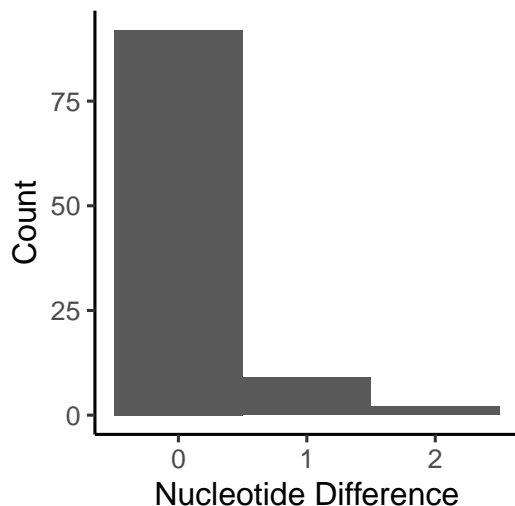
IGHV1-46*03

219 sequences assigned
196 (89.5%) exact matches, in which:
188 unique CDR3
6 unique J



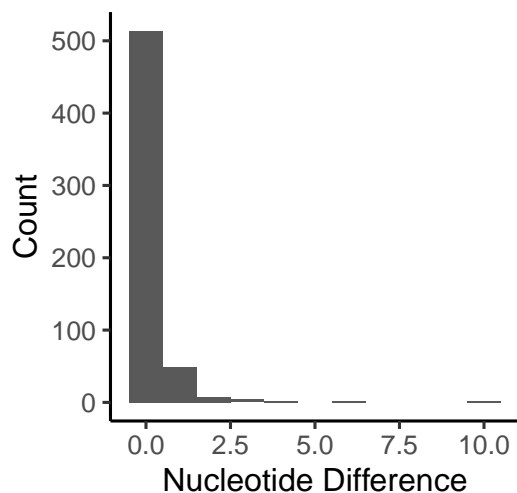
IGHV1-58*01

103 sequences assigned
92 (89.3%) exact matches, in which:
91 unique CDR3
6 unique J



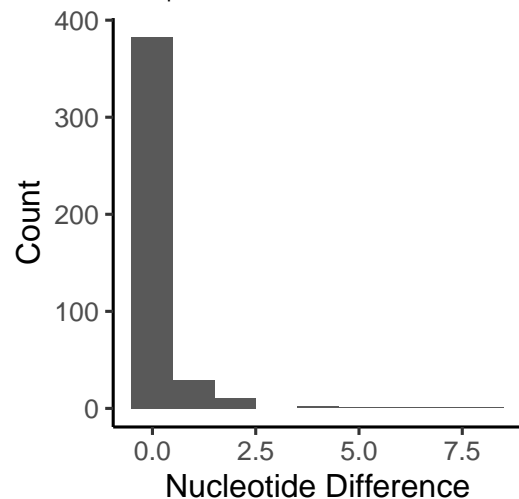
IGHV1-69*04

580 sequences assigned
514 (88.6%) exact matches, in which:
504 unique CDR3
6 unique J



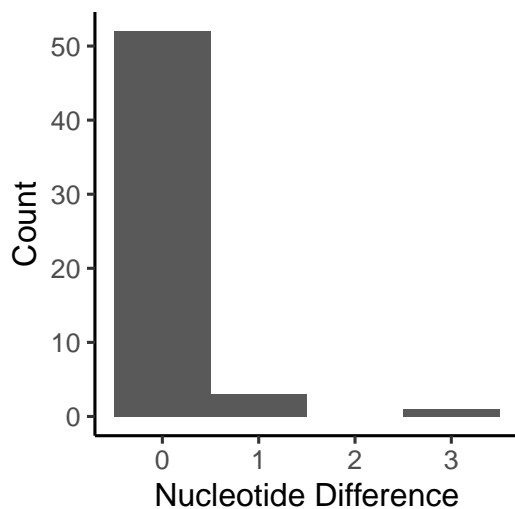
IGHV2-5*02

429 sequences assigned
383 (89.3%) exact matches, in which:
379 unique CDR3
6 unique J



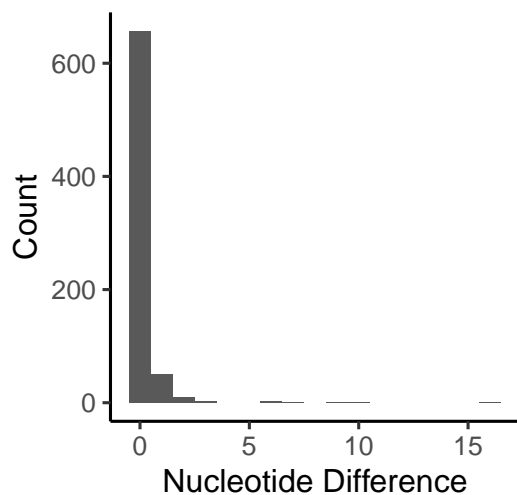
IGHV1-58*02

56 sequences assigned
52 (92.9%) exact matches, in which:
51 unique CDR3
5 unique J



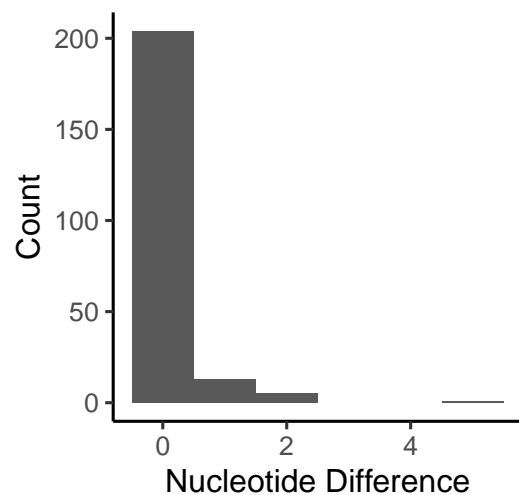
IGHV1-69*06

727 sequences assigned
657 (90.4%) exact matches, in which:
644 unique CDR3
6 unique J



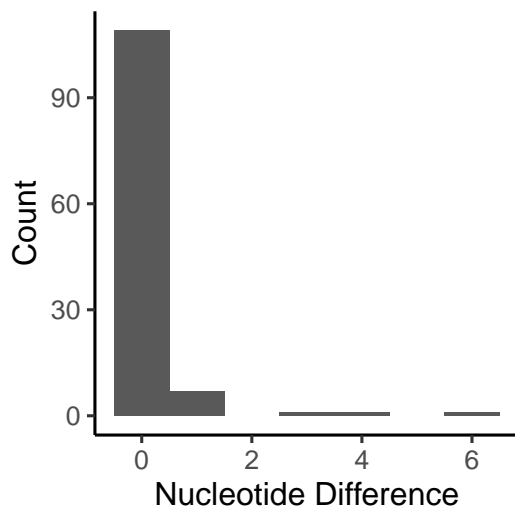
IGHV2-26*01

223 sequences assigned
204 (91.5%) exact matches, in which:
200 unique CDR3
6 unique J



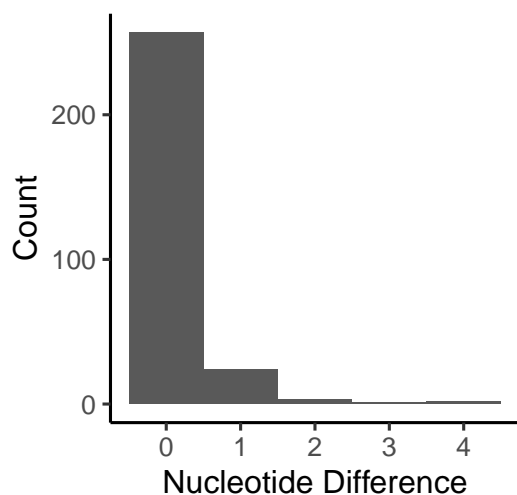
IGHV1-69-2*01

119 sequences assigned
109 (91.6%) exact matches, in which:
107 unique CDR3
6 unique J



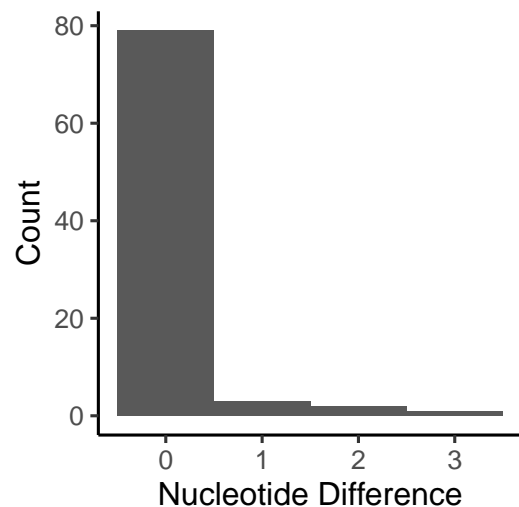
IGHV2-5*01

288 sequences assigned
257 (89.2%) exact matches, in which:
253 unique CDR3
6 unique J



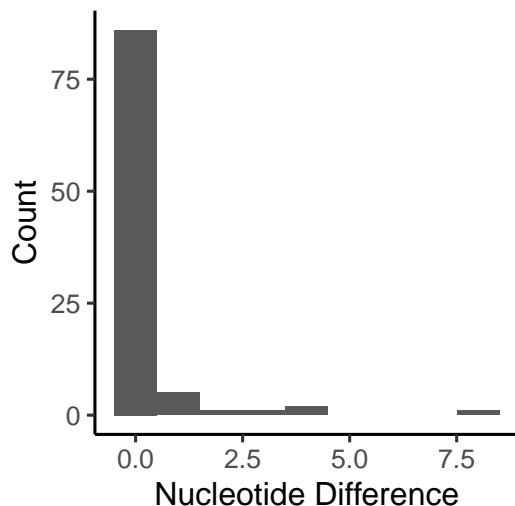
IGHV2-70*01

85 sequences assigned
79 (92.9%) exact matches, in which:
79 unique CDR3
5 unique J



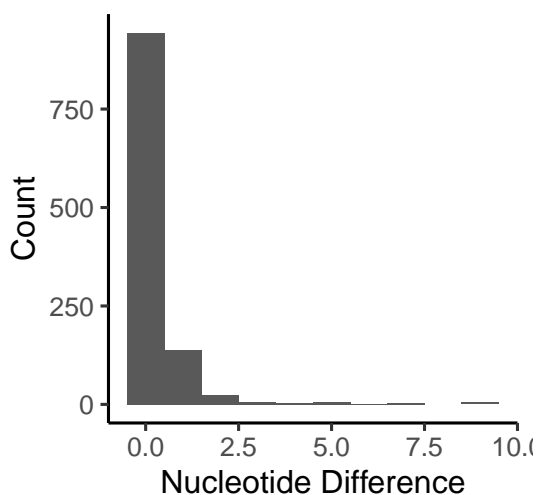
IGHV2-70*15

97 sequences assigned
86 (88.7%) exact matches, in which:
86 unique CDR3
5 unique J



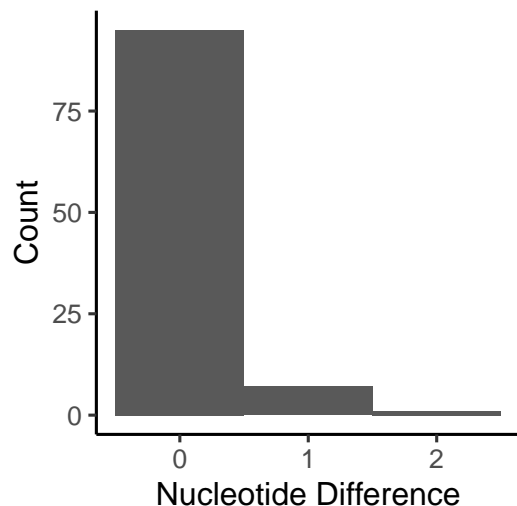
IGHV3-9*01

1136 sequences assigned
944 (83.1%) exact matches, in which:
915 unique CDR3
6 unique J



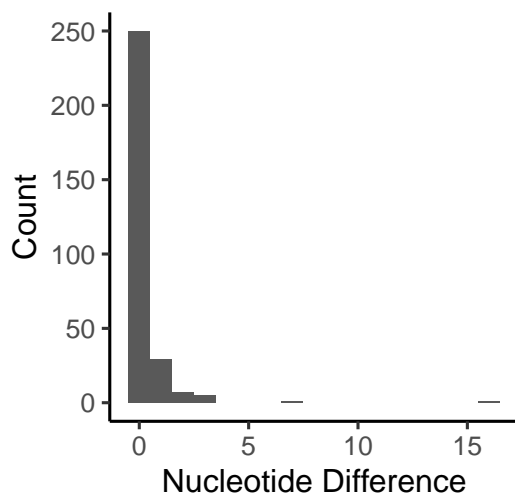
IGHV3-13*01

103 sequences assigned
95 (92.2%) exact matches, in which:
93 unique CDR3
5 unique J



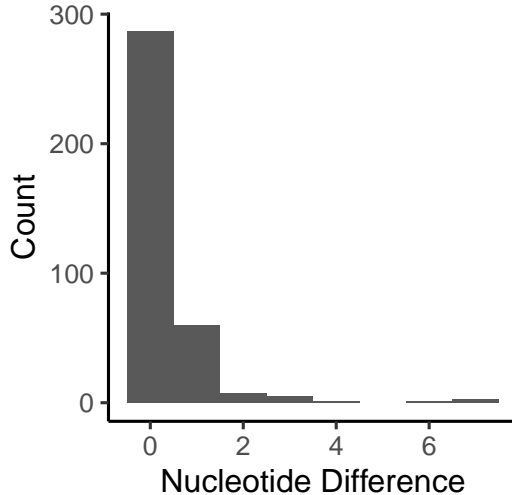
IGHV3-7*01

293 sequences assigned
250 (85.3%) exact matches, in which:
239 unique CDR3
6 unique J



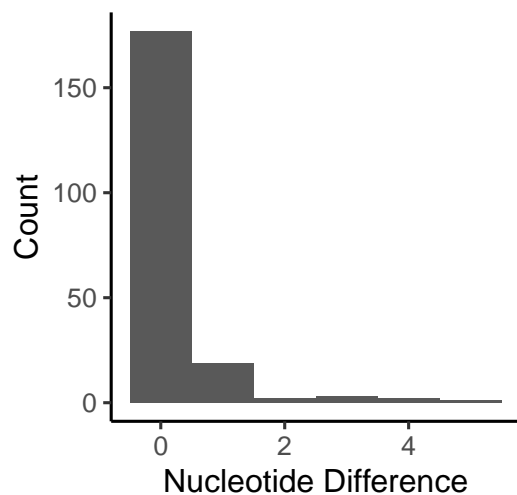
IGHV3-11*01

365 sequences assigned
287 (78.6%) exact matches, in which:
283 unique CDR3
6 unique J



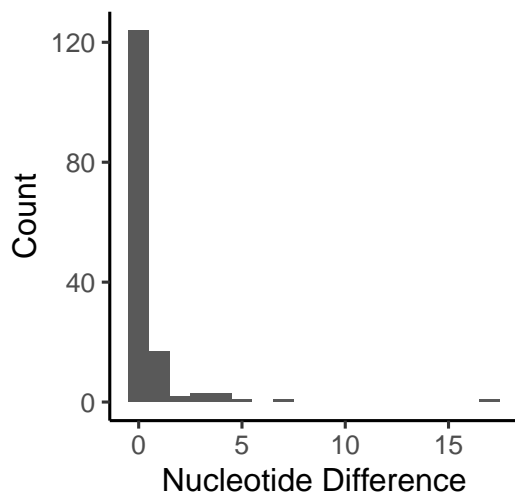
IGHV3-13*04

204 sequences assigned
177 (86.8%) exact matches, in which:
170 unique CDR3
6 unique J



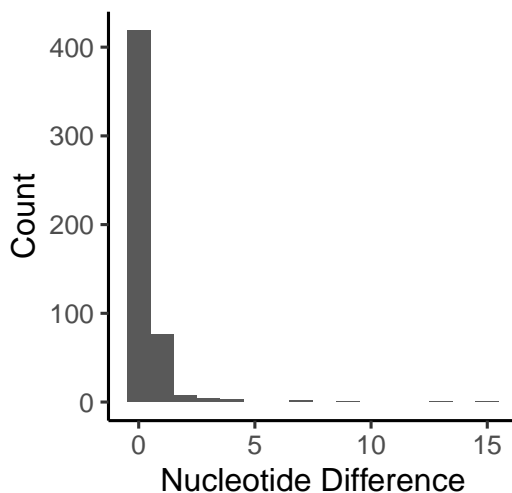
IGHV3-7*05

152 sequences assigned
124 (81.6%) exact matches, in which:
121 unique CDR3
6 unique J



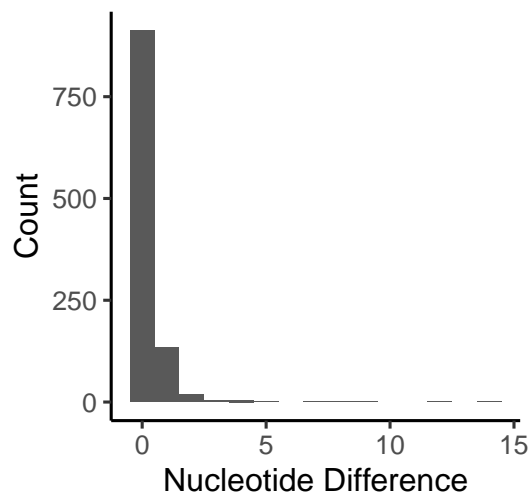
IGHV3-11*05

515 sequences assigned
419 (81.4%) exact matches, in which:
409 unique CDR3
6 unique J



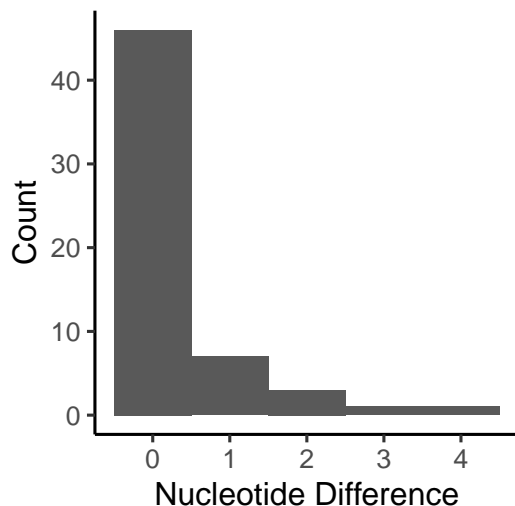
IGHV3-15*01

1083 sequences assigned
913 (84.3%) exact matches, in which:
882 unique CDR3
6 unique J



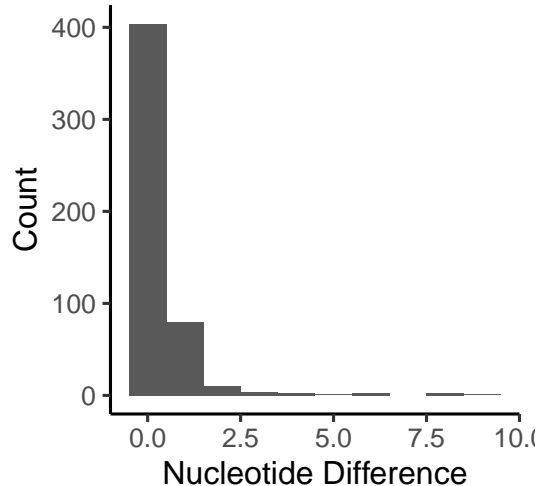
IGHV3-20*01

59 sequences assigned
46 (78%) exact matches, in which:
44 unique CDR3
5 unique J



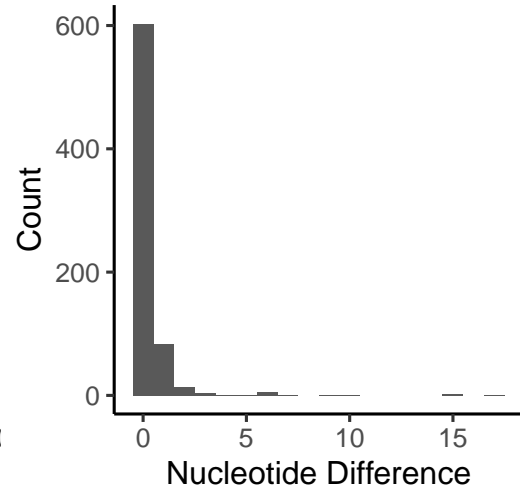
IGHV3-33*01

509 sequences assigned
404 (79.4%) exact matches, in which:
395 unique CDR3
6 unique J



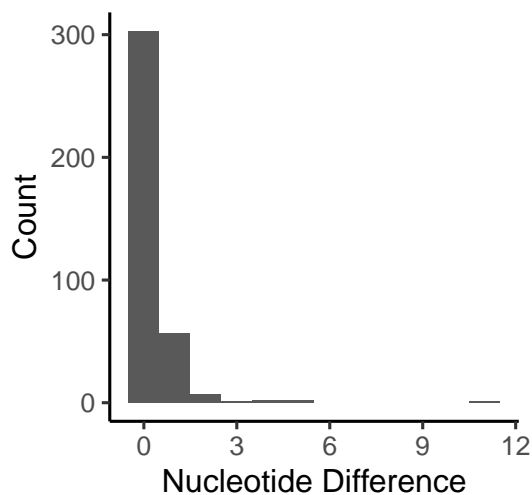
IGHV3-48*04

722 sequences assigned
603 (83.5%) exact matches, in which:
579 unique CDR3
6 unique J



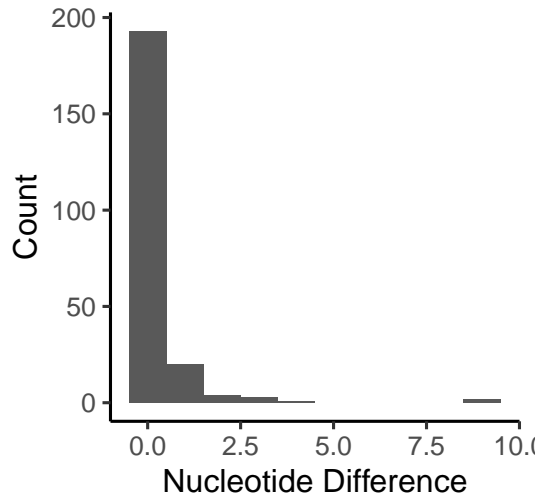
IGHV3-20*04

373 sequences assigned
303 (81.2%) exact matches, in which:
285 unique CDR3
6 unique J



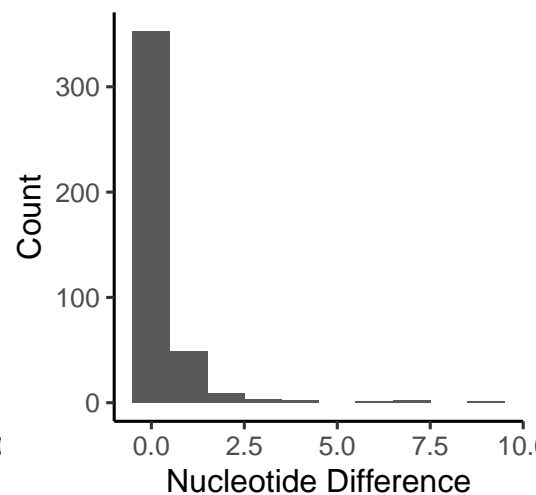
IGHV3-43*01

226 sequences assigned
193 (85.4%) exact matches, in which:
187 unique CDR3
6 unique J



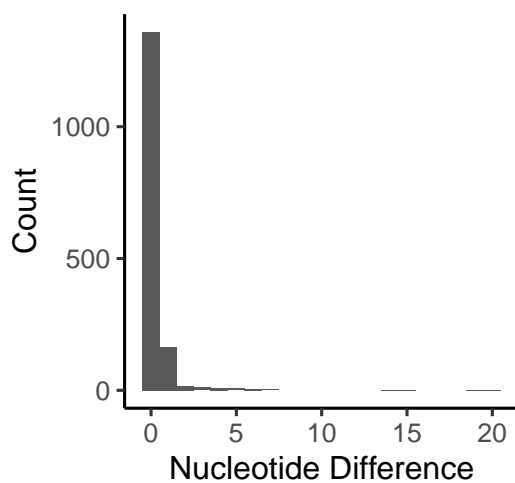
IGHV3-49*03

421 sequences assigned
353 (83.8%) exact matches, in which:
341 unique CDR3
6 unique J



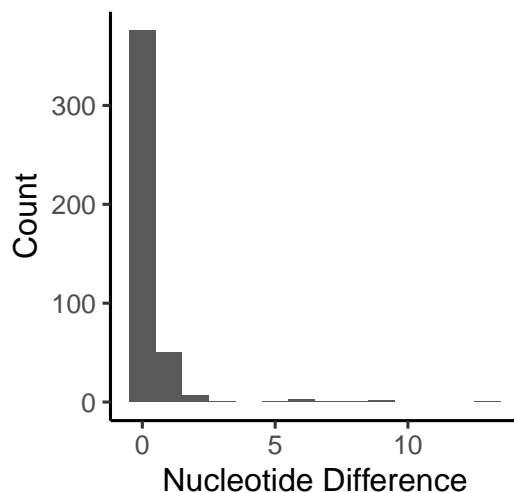
IGHV3-21*01

1580 sequences assigned
1359 (86%) exact matches, in which:
1304 unique CDR3
6 unique J



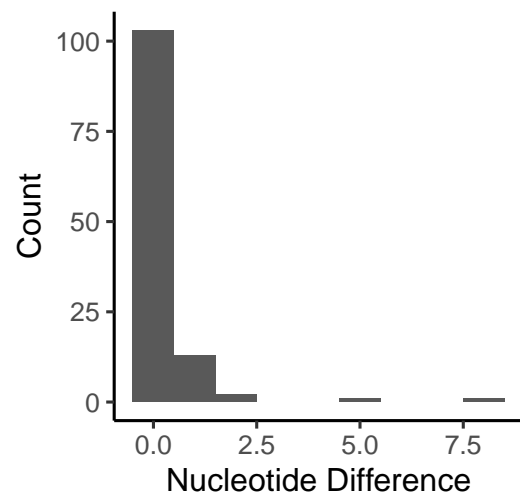
IGHV3-48*01

443 sequences assigned
376 (84.9%) exact matches, in which:
370 unique CDR3
6 unique J



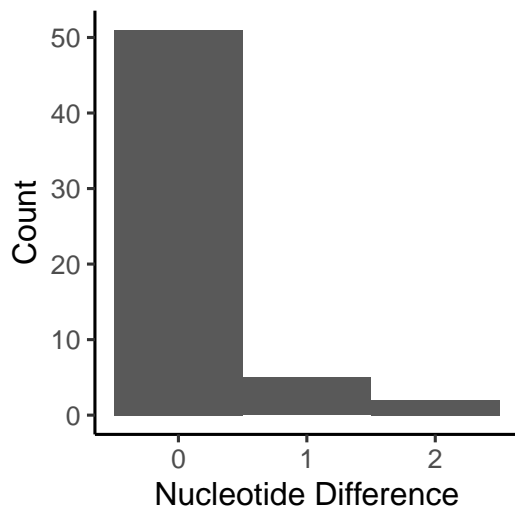
IGHV3-53*04

121 sequences assigned
103 (85.1%) exact matches, in which:
101 unique CDR3
5 unique J



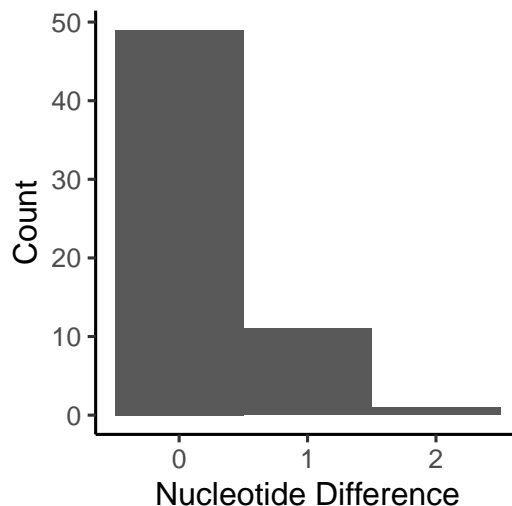
IGHV3-64*01

58 sequences assigned
51 (87.9%) exact matches, in which:
49 unique CDR3
6 unique J



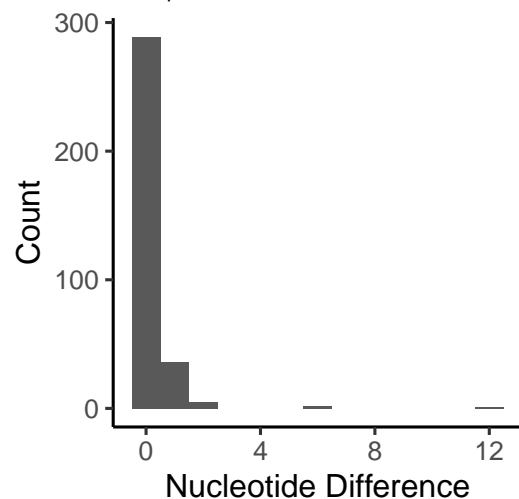
IGHV3-72*01

61 sequences assigned
49 (80.3%) exact matches, in which:
47 unique CDR3
5 unique J



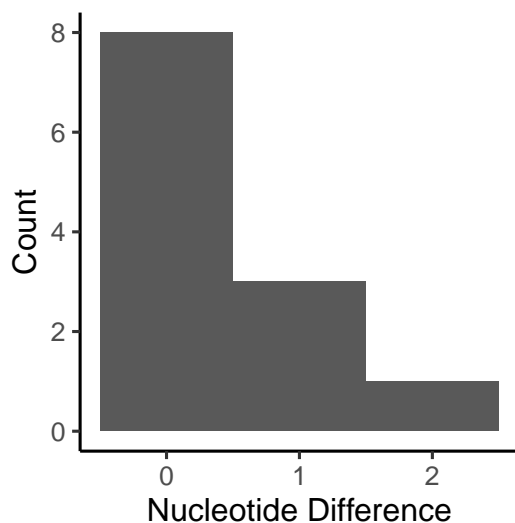
IGHV3-74*01

333 sequences assigned
289 (86.8%) exact matches, in which:
285 unique CDR3
6 unique J



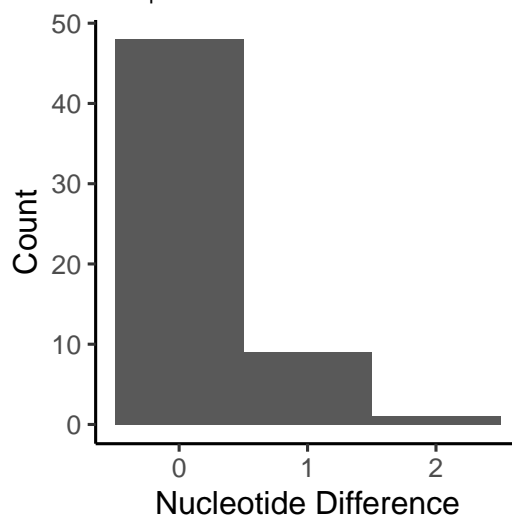
IGHV3-64*02

12 sequences assigned
8 (66.7%) exact matches, in which:
8 unique CDR3
3 unique J



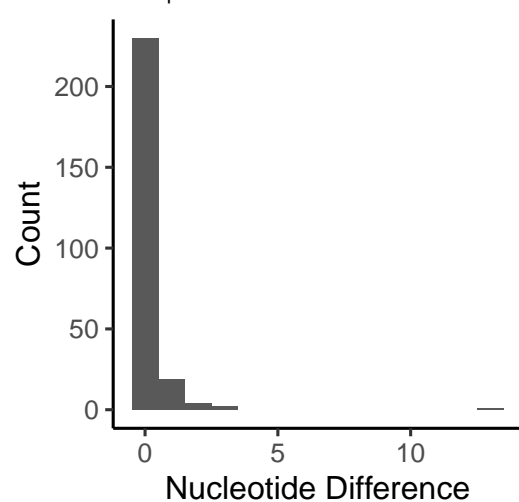
IGHV3-73*01

58 sequences assigned
48 (82.8%) exact matches, in which:
46 unique CDR3
5 unique J



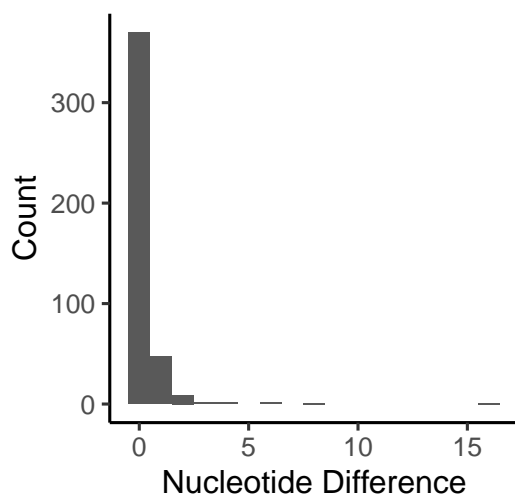
IGHV3-64D*09

257 sequences assigned
230 (89.5%) exact matches, in which:
220 unique CDR3
6 unique J



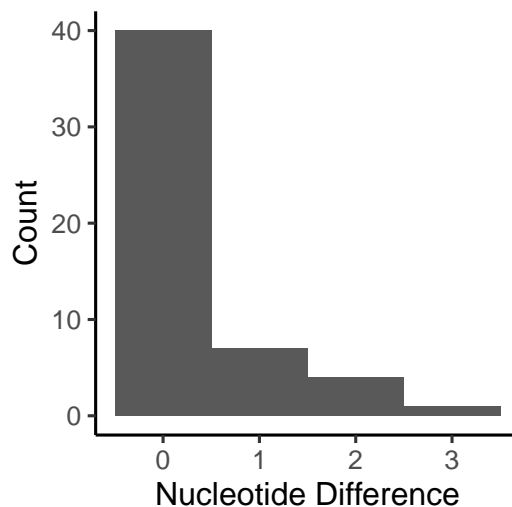
IGHV3-66*01

434 sequences assigned
370 (85.3%) exact matches, in which:
359 unique CDR3
6 unique J



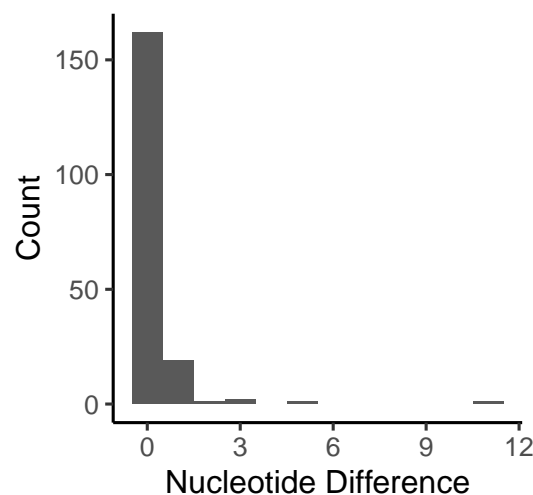
IGHV3-73*02

52 sequences assigned
40 (76.9%) exact matches, in which:
40 unique CDR3
5 unique J



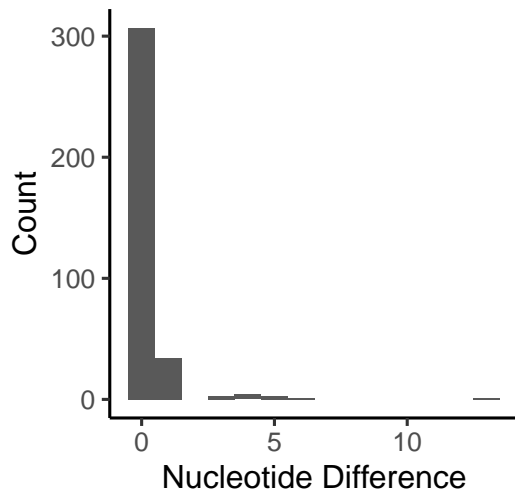
IGHV4-4*02

186 sequences assigned
162 (87.1%) exact matches, in which:
161 unique CDR3
6 unique J



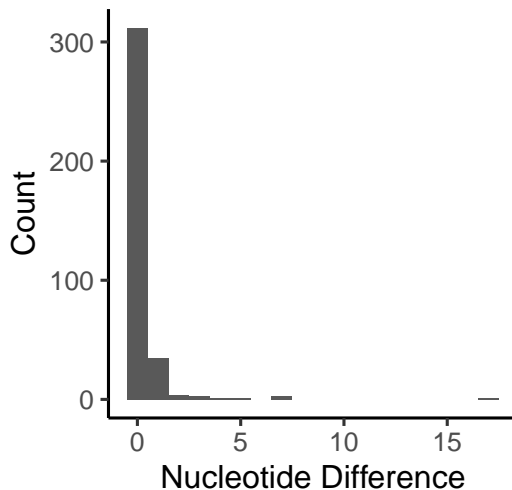
IGHV4–4*07

353 sequences assigned
307 (87%) exact matches, in which:
305 unique CDR3
6 unique J



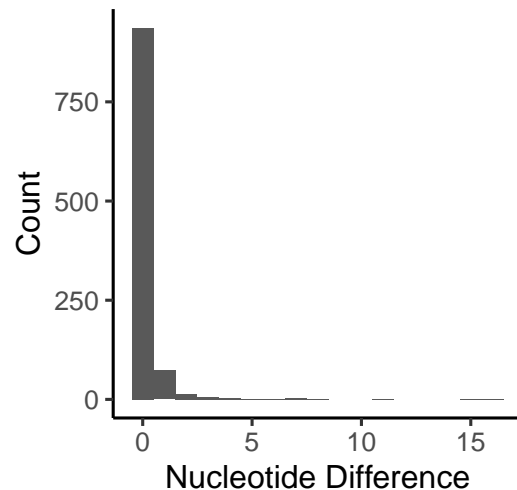
IGHV4–31*03

360 sequences assigned
312 (86.7%) exact matches, in which:
306 unique CDR3
6 unique J



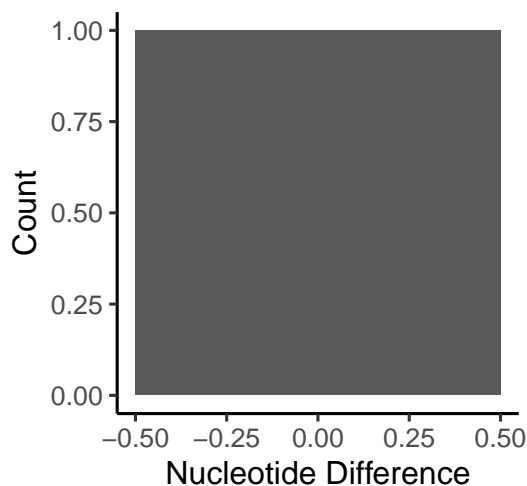
IGHV4–39*07_C288A

1047 sequences assigned
937 (89.5%) exact matches, in which:
901 unique CDR3
6 unique J



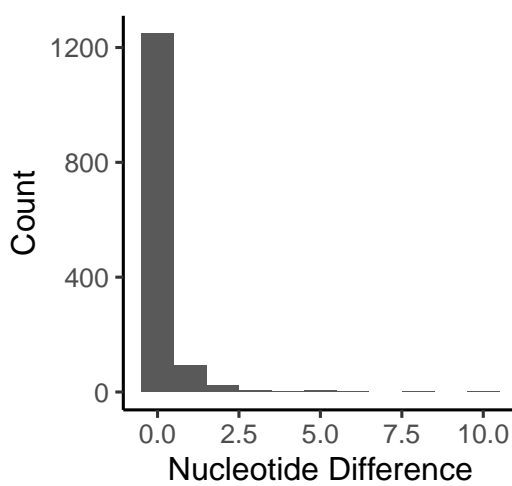
IGHV4–28*04

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



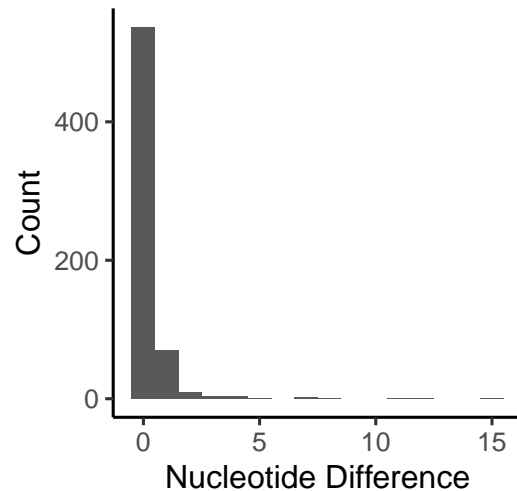
IGHV4–34*01

1378 sequences assigned
1248 (90.6%) exact matches, in which:
1218 unique CDR3
6 unique J



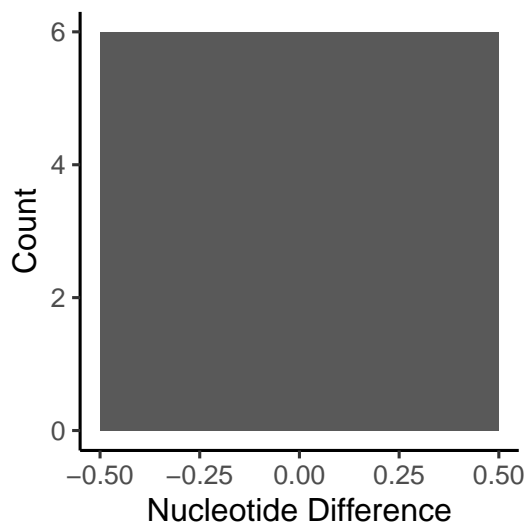
IGHV4–59*01

630 sequences assigned
537 (85.2%) exact matches, in which:
532 unique CDR3
6 unique J



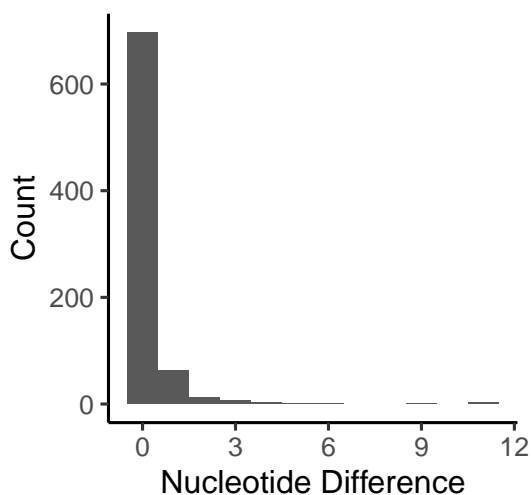
IGHV4–28*05

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
3 unique J



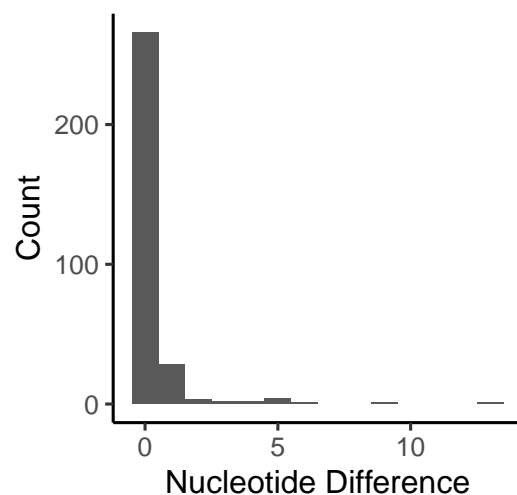
IGHV4–39*01

790 sequences assigned
697 (88.2%) exact matches, in which:
673 unique CDR3
6 unique J



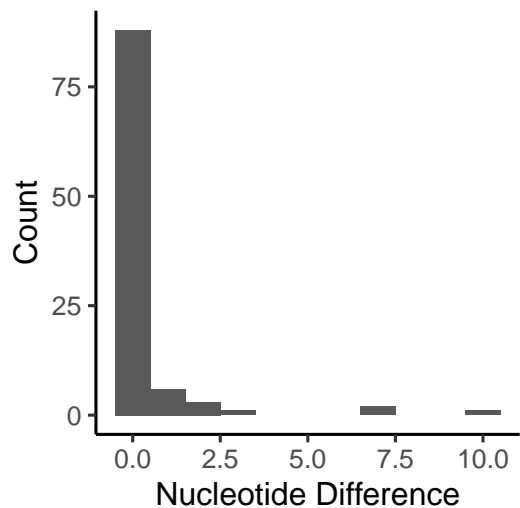
IGHV4–59*08

311 sequences assigned
266 (85.5%) exact matches, in which:
261 unique CDR3
6 unique J



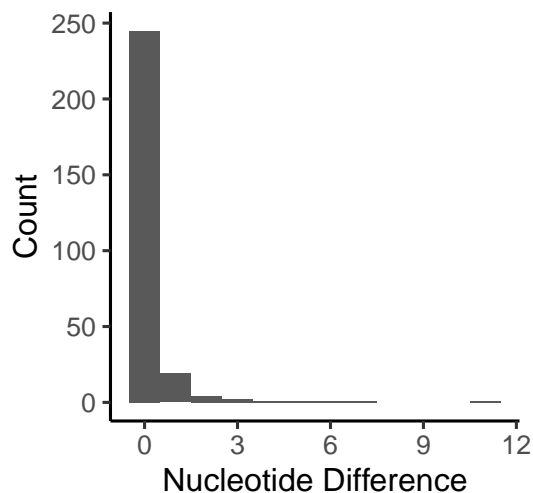
IGHV4-61*01

101 sequences assigned
88 (87.1%) exact matches, in which:
88 unique CDR3
6 unique J



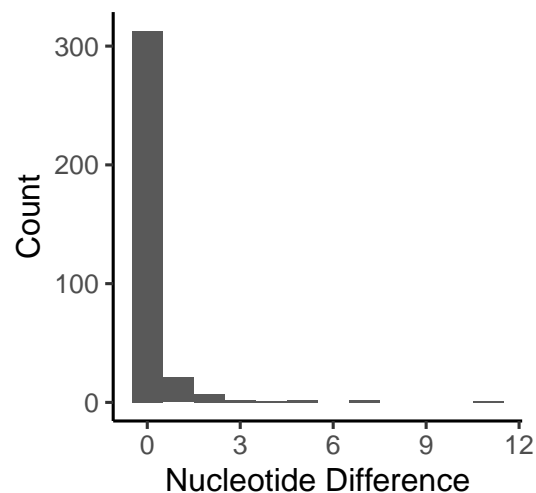
IGHV5-51*03

275 sequences assigned
245 (89.1%) exact matches, in which:
242 unique CDR3
6 unique J



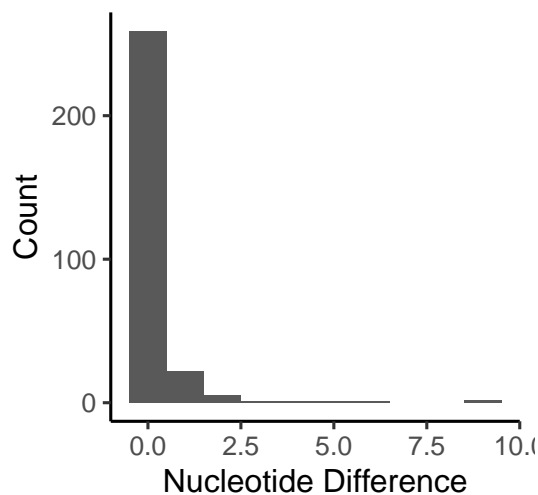
IGHV7-4-1*02

350 sequences assigned
313 (89.4%) exact matches, in which:
304 unique CDR3
6 unique J



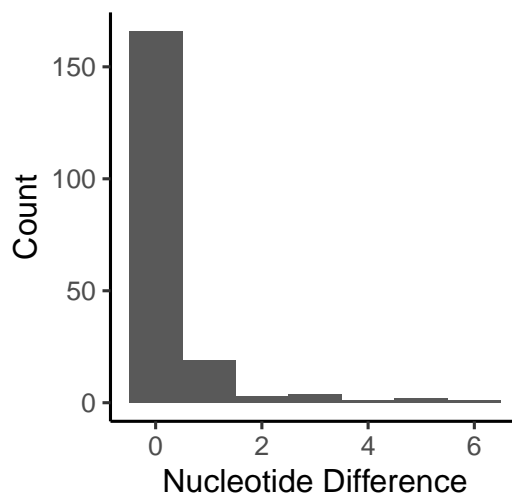
IGHV5-10-1*01

293 sequences assigned
259 (88.4%) exact matches, in which:
249 unique CDR3
6 unique J



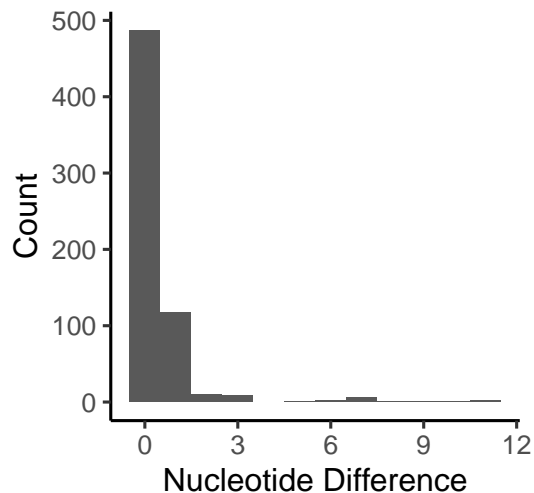
IGHV6-1*01

198 sequences assigned
166 (83.8%) exact matches, in which:
160 unique CDR3
6 unique J



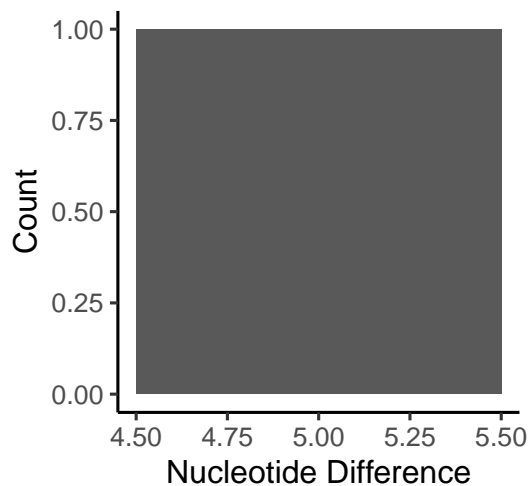
IGHV5-51*01

636 sequences assigned
487 (76.6%) exact matches, in which:
478 unique CDR3
6 unique J



IGHV3/OR16-15*02

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.