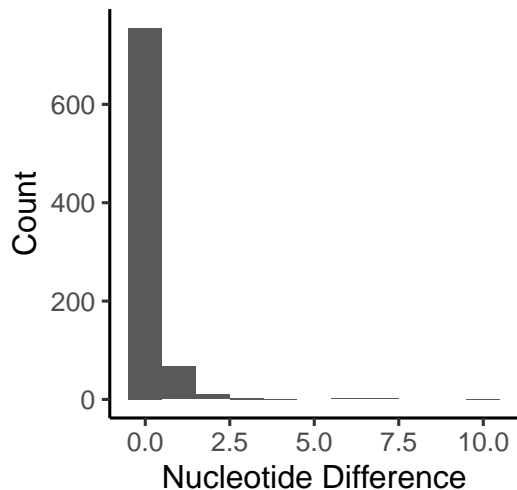


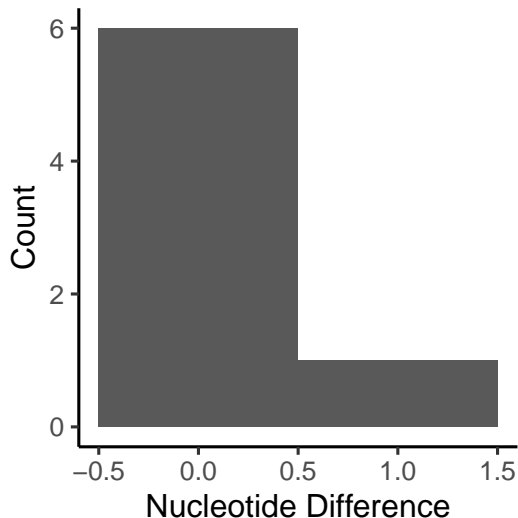
IGHV1-2*02

843 sequences assigned
756 (89.7%) exact matches, in which:
729 unique CDR3
6 unique J



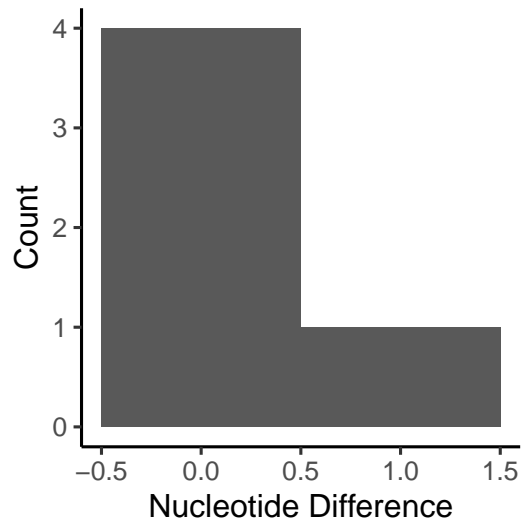
IGHV1-8*01

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
3 unique J



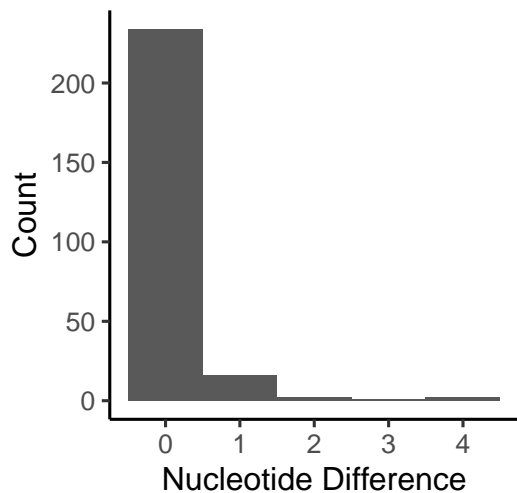
IGHV1-45*02

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
2 unique J



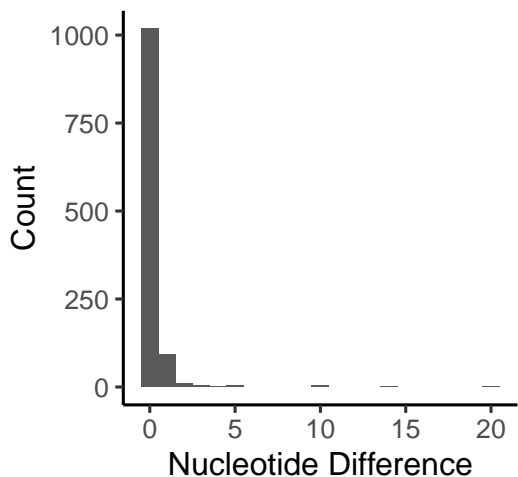
IGHV1-2*04

255 sequences assigned
234 (91.8%) exact matches, in which:
224 unique CDR3
6 unique J



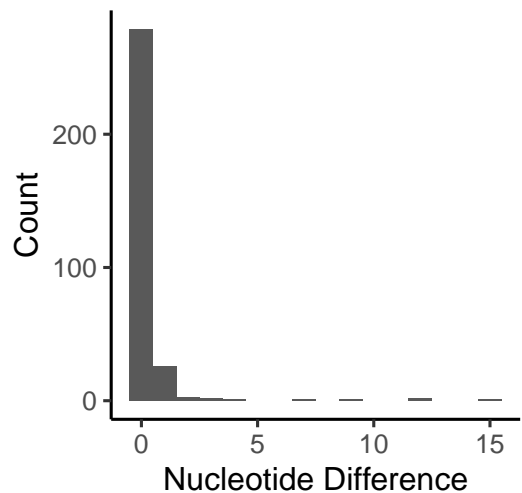
IGHV1-18*01

1134 sequences assigned
1018 (89.8%) exact matches, in which:
982 unique CDR3
6 unique J



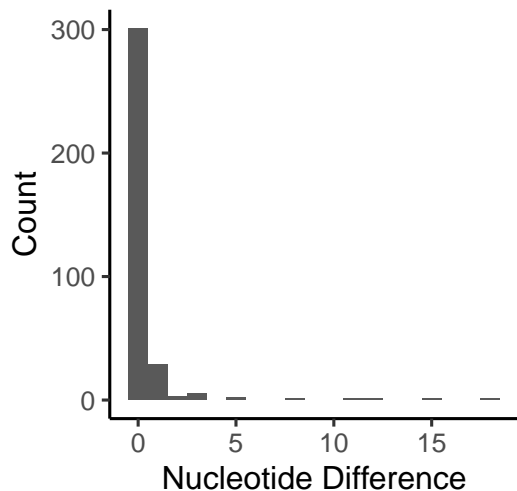
IGHV1-46*01

316 sequences assigned
279 (88.3%) exact matches, in which:
265 unique CDR3
5 unique J



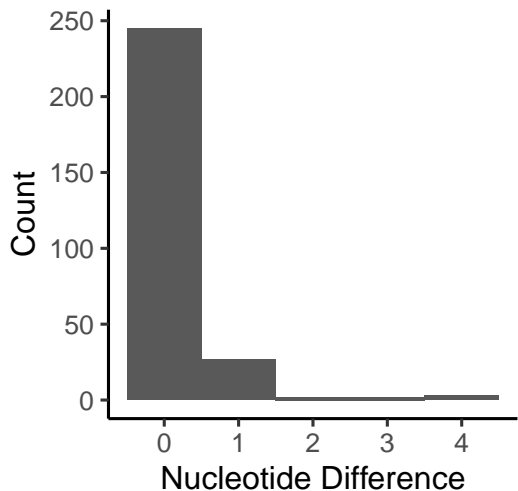
IGHV1-3*01

345 sequences assigned
301 (87.2%) exact matches, in which:
286 unique CDR3
6 unique J



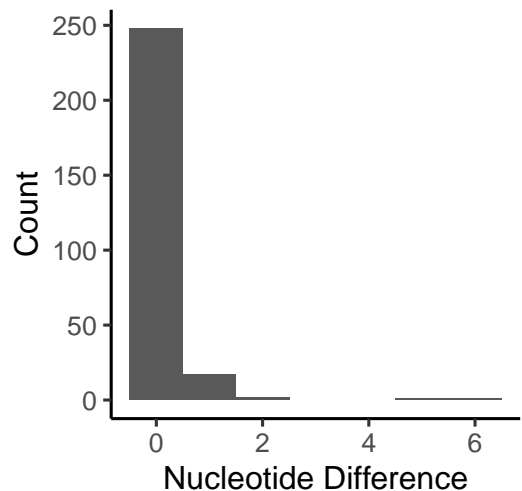
IGHV1-24*01

279 sequences assigned
245 (87.8%) exact matches, in which:
240 unique CDR3
5 unique J



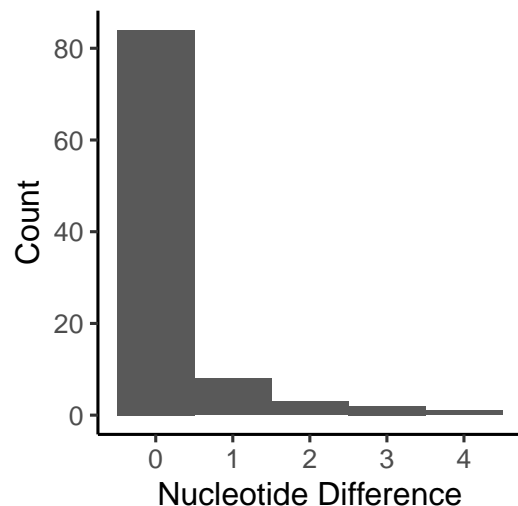
IGHV1-46*03

270 sequences assigned
248 (91.9%) exact matches, in which:
232 unique CDR3
6 unique J



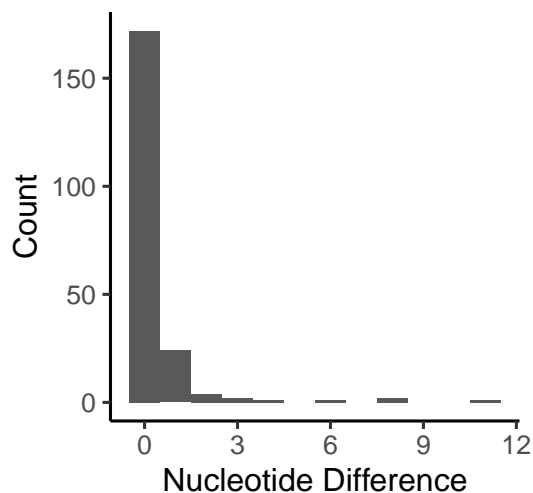
IGHV1-58*02

98 sequences assigned
84 (85.7%) exact matches, in which:
82 unique CDR3
6 unique J



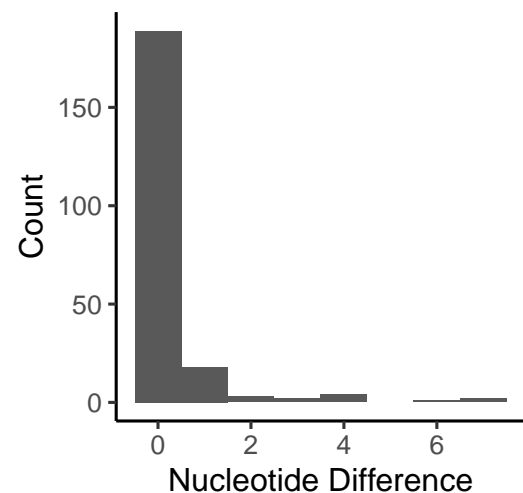
IGHV2-5*01

207 sequences assigned
172 (83.1%) exact matches, in which:
170 unique CDR3
6 unique J



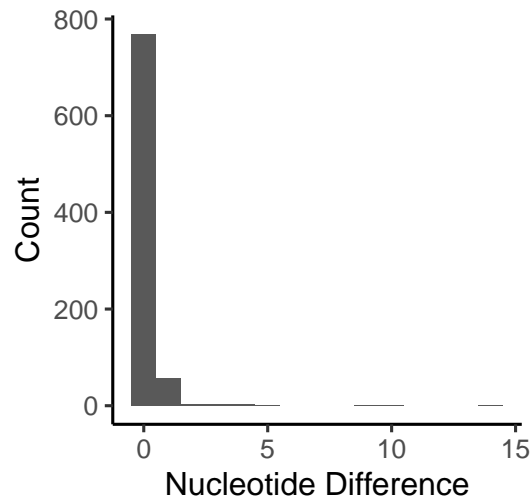
IGHV2-70*15

219 sequences assigned
189 (86.3%) exact matches, in which:
188 unique CDR3
4 unique J



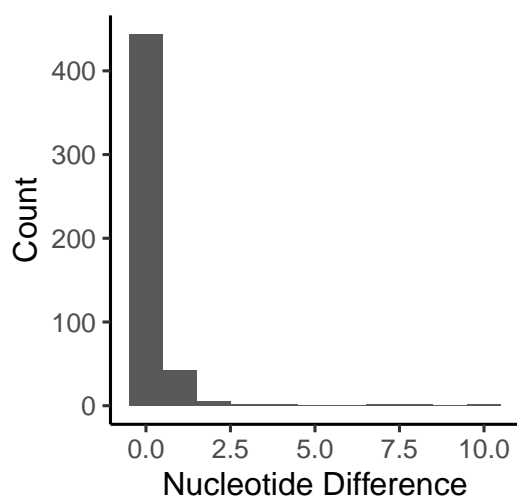
IGHV1-69*04

841 sequences assigned
769 (91.4%) exact matches, in which:
736 unique CDR3
6 unique J



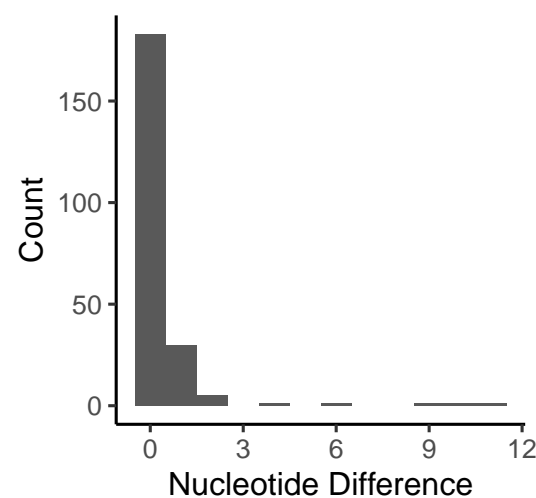
IGHV2-5*02

505 sequences assigned
444 (87.9%) exact matches, in which:
427 unique CDR3
6 unique J



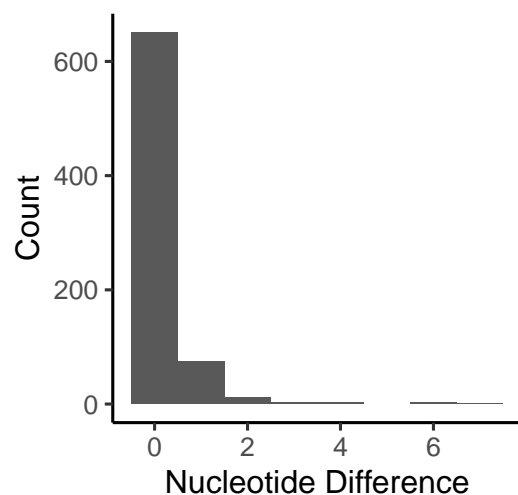
IGHV3-7*04

223 sequences assigned
183 (82.1%) exact matches, in which:
177 unique CDR3
6 unique J



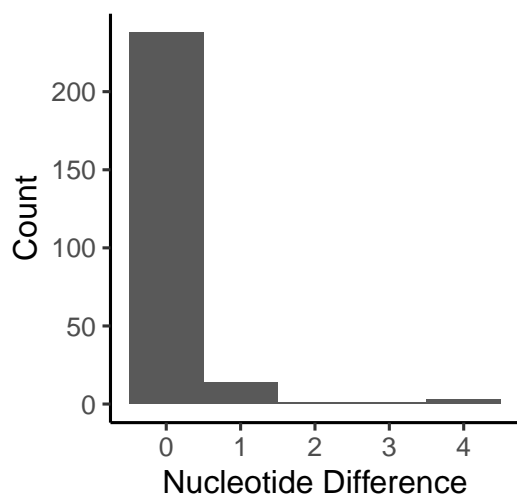
IGHV1-69*08_C191T

744 sequences assigned
651 (87.5%) exact matches, in which:
611 unique CDR3
6 unique J



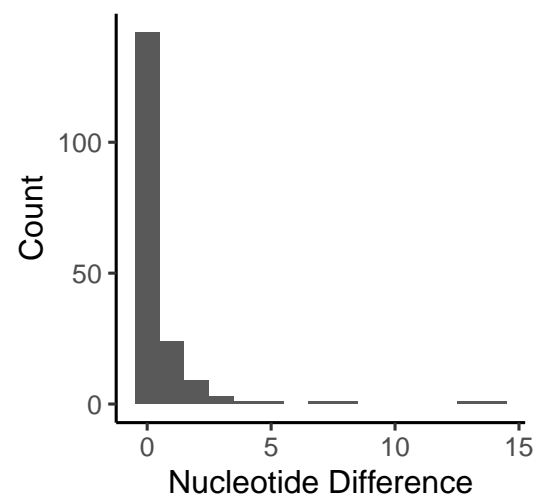
IGHV2-26*01

257 sequences assigned
238 (92.6%) exact matches, in which:
231 unique CDR3
5 unique J



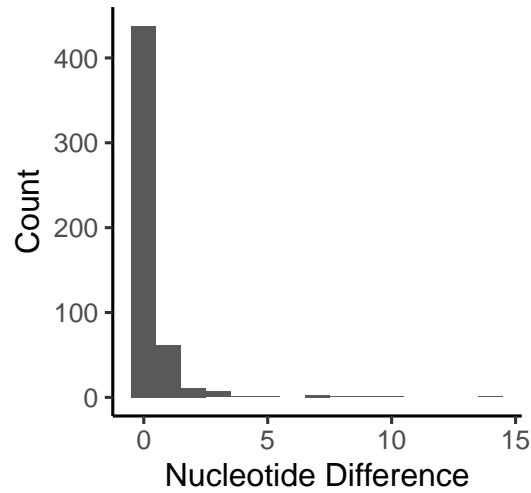
IGHV3-7*05

184 sequences assigned
142 (77.2%) exact matches, in which:
138 unique CDR3
6 unique J



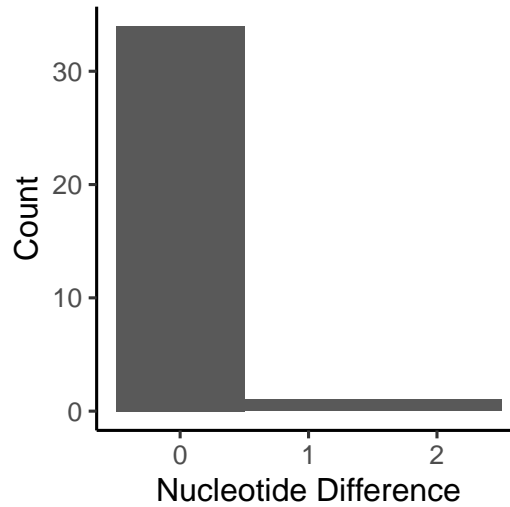
IGHV3–11*05

527 sequences assigned
438 (83.1%) exact matches, in which:
413 unique CDR3
6 unique J



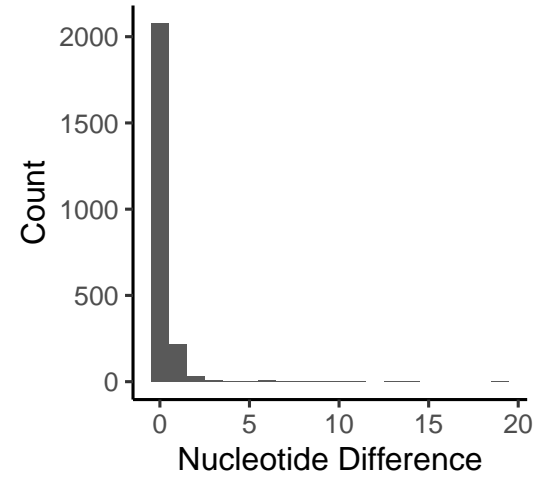
IGHV3–13*05

36 sequences assigned
34 (94.4%) exact matches, in which:
32 unique CDR3
5 unique J



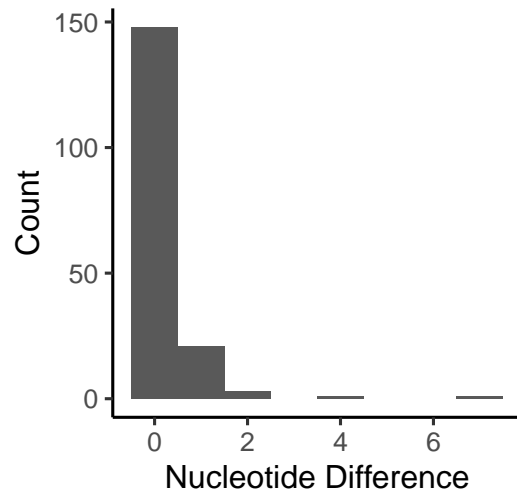
IGHV3–21*01

2369 sequences assigned
2077 (87.7%) exact matches, in which:
1902 unique CDR3
6 unique J



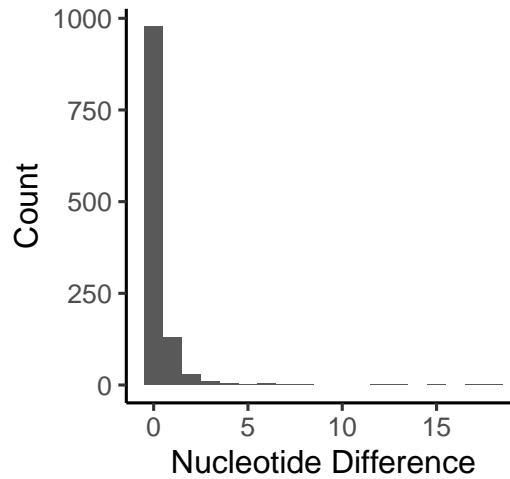
IGHV3–11*06

174 sequences assigned
148 (85.1%) exact matches, in which:
140 unique CDR3
6 unique J



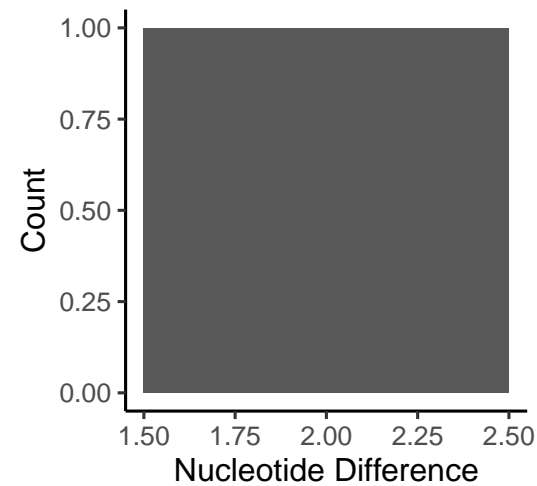
IGHV3–15*01

1163 sequences assigned
977 (84%) exact matches, in which:
920 unique CDR3
6 unique J



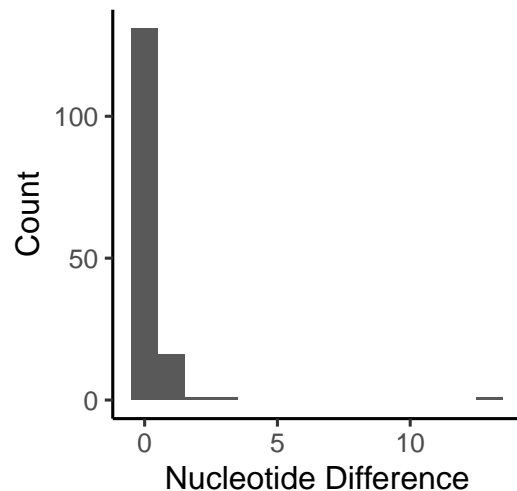
IGHV3–30–3*02

1 sequences assigned
No exact matches.



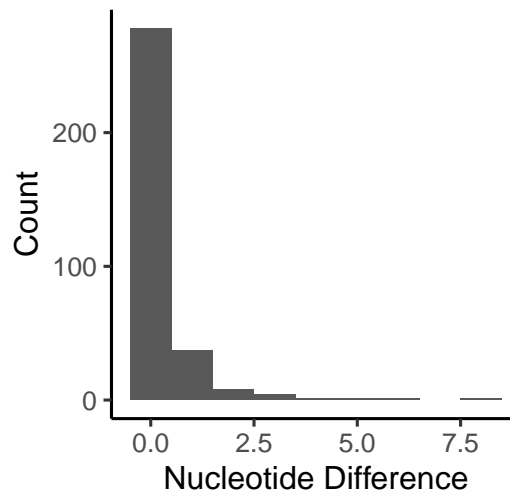
IGHV3–13*04

150 sequences assigned
131 (87.3%) exact matches, in which:
125 unique CDR3
6 unique J



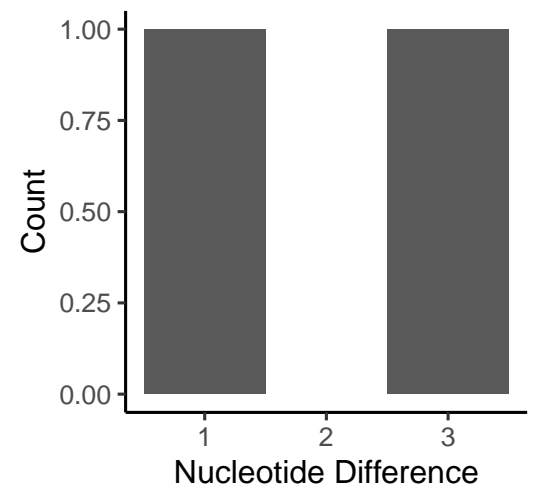
IGHV3–20*04

331 sequences assigned
278 (84%) exact matches, in which:
260 unique CDR3
6 unique J



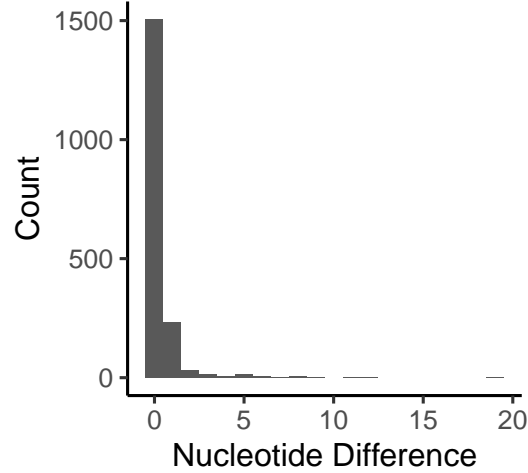
IGHV3–30–3*03

2 sequences assigned
No exact matches.



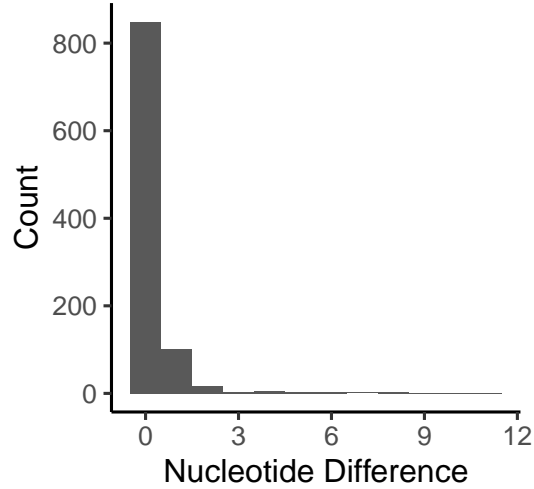
IGHV3–33*01

1832 sequences assigned
1505 (82.2%) exact matches, in which:
1393 unique CDR3
6 unique J



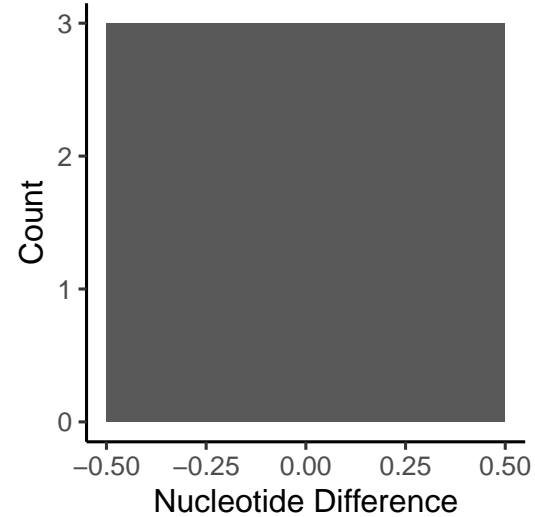
IGHV3–48*03

991 sequences assigned
849 (85.7%) exact matches, in which:
801 unique CDR3
6 unique J



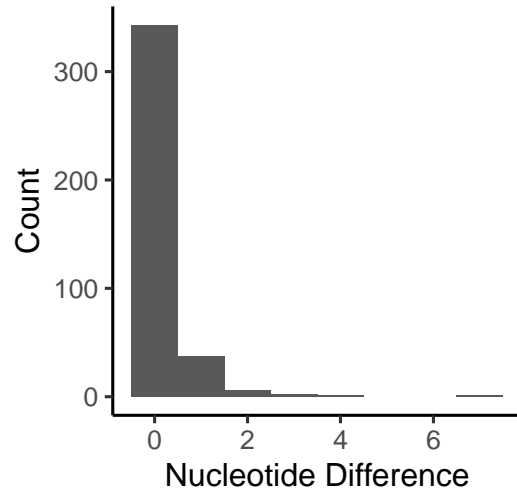
IGHV3–52*01

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



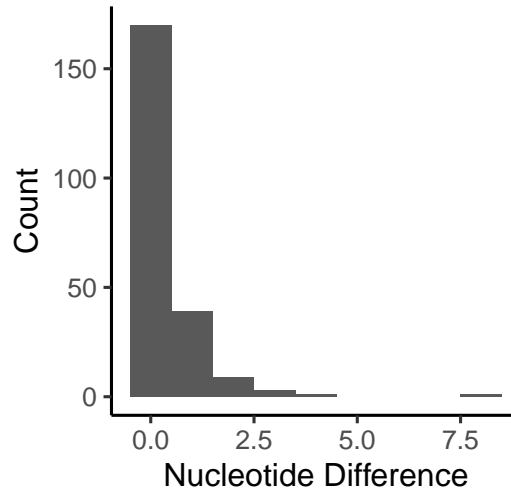
IGHV3–43*02

390 sequences assigned
343 (87.9%) exact matches, in which:
322 unique CDR3
6 unique J



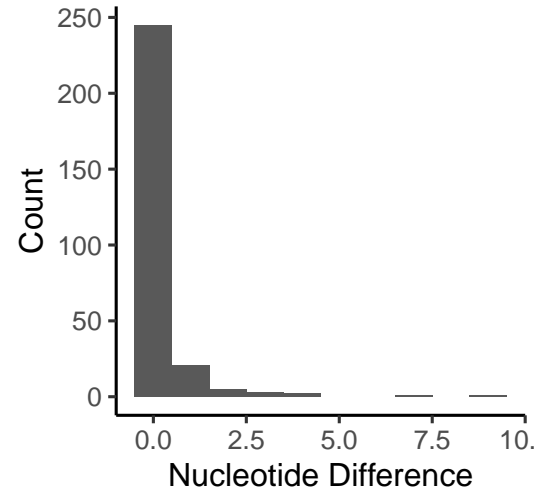
IGHV3–49*03

223 sequences assigned
170 (76.2%) exact matches, in which:
161 unique CDR3
5 unique J



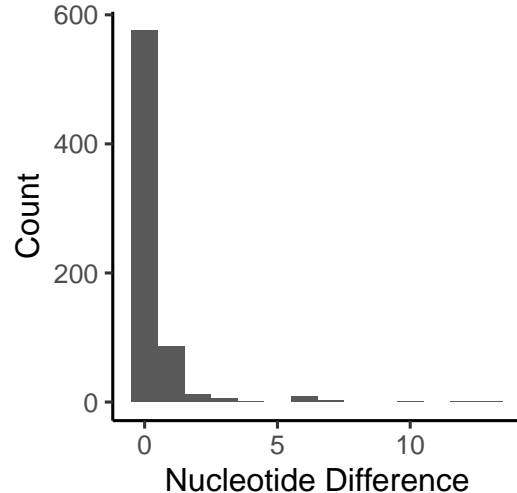
IGHV3–53*04

278 sequences assigned
245 (88.1%) exact matches, in which:
233 unique CDR3
5 unique J



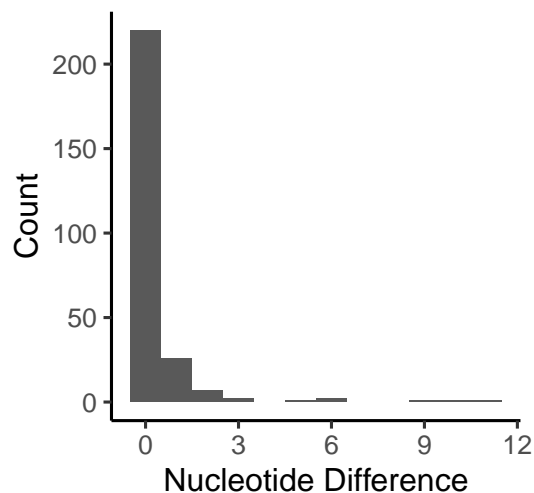
IGHV3–48*01

694 sequences assigned
576 (83%) exact matches, in which:
537 unique CDR3
6 unique J



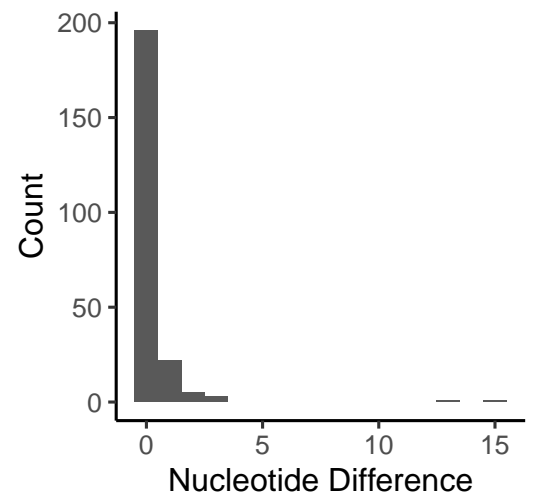
IGHV3–49*04

261 sequences assigned
220 (84.3%) exact matches, in which:
207 unique CDR3
6 unique J



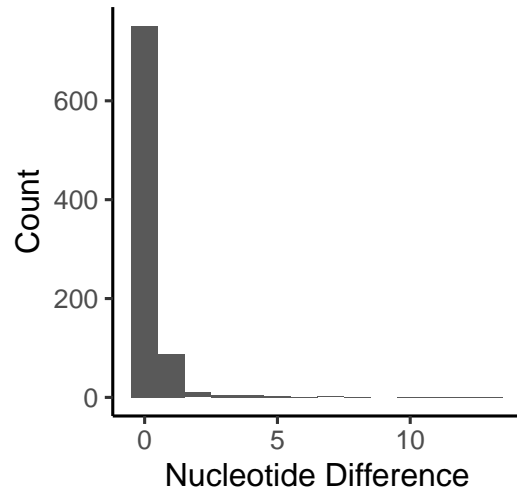
IGHV3–64*01

229 sequences assigned
196 (85.6%) exact matches, in which:
182 unique CDR3
6 unique J



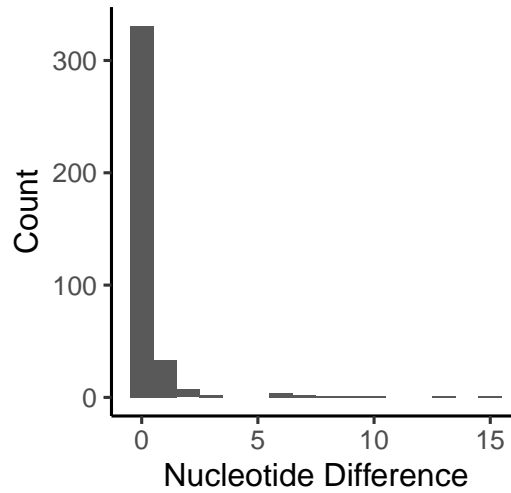
IGHV3–66*01

871 sequences assigned
752 (86.3%) exact matches, in which:
709 unique CDR3
6 unique J



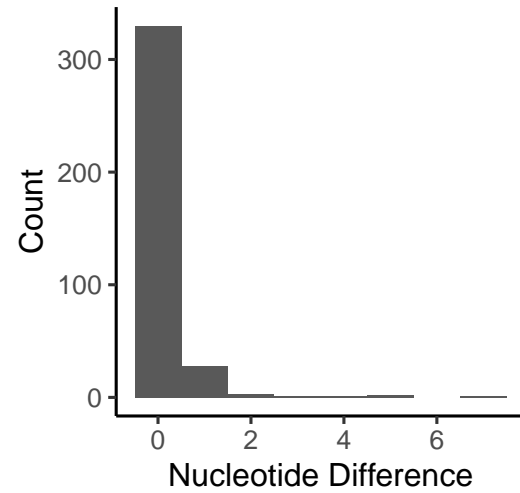
IGHV3–74*01

384 sequences assigned
331 (86.2%) exact matches, in which:
310 unique CDR3
6 unique J



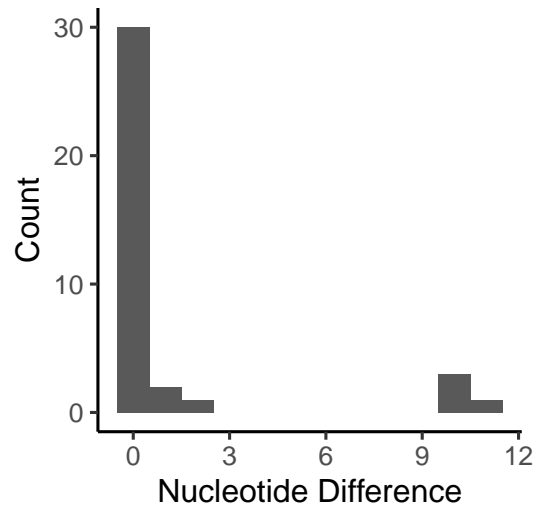
IGHV4–4*02

366 sequences assigned
330 (90.2%) exact matches, in which:
322 unique CDR3
6 unique J



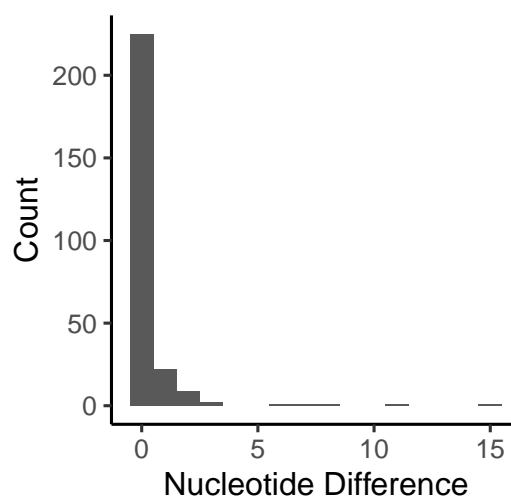
IGHV3–72*01

37 sequences assigned
30 (81.1%) exact matches, in which:
27 unique CDR3
5 unique J



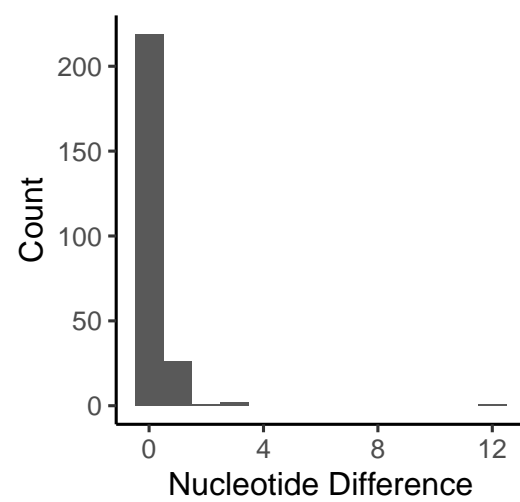
IGHV3–64D*06

263 sequences assigned
225 (85.6%) exact matches, in which:
203 unique CDR3
5 unique J



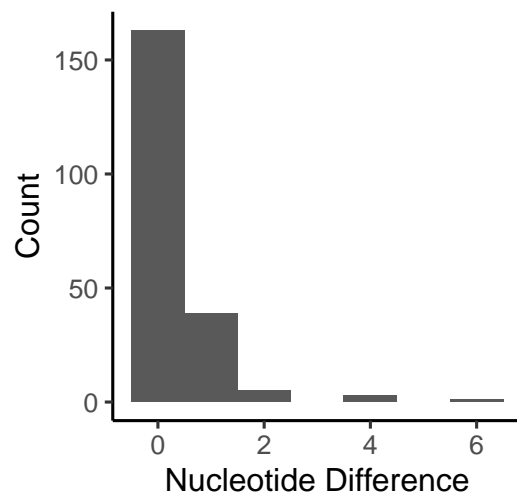
IGHV4–4*07

249 sequences assigned
219 (88%) exact matches, in which:
213 unique CDR3
5 unique J



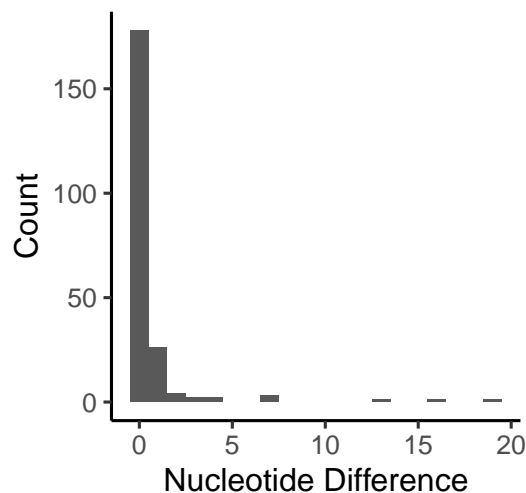
IGHV3–73*01

211 sequences assigned
163 (77.3%) exact matches, in which:
153 unique CDR3
5 unique J



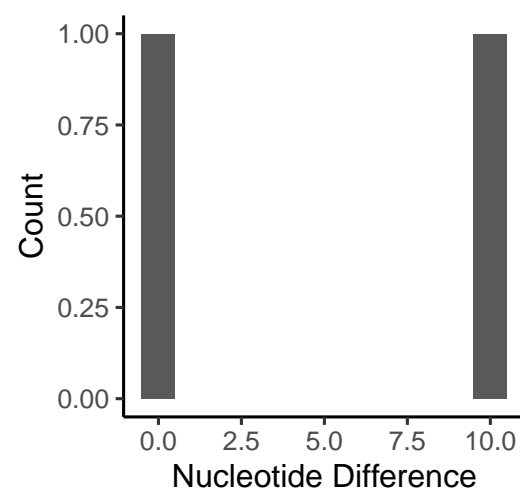
IGHV3–64D*09

218 sequences assigned
178 (81.7%) exact matches, in which:
167 unique CDR3
6 unique J



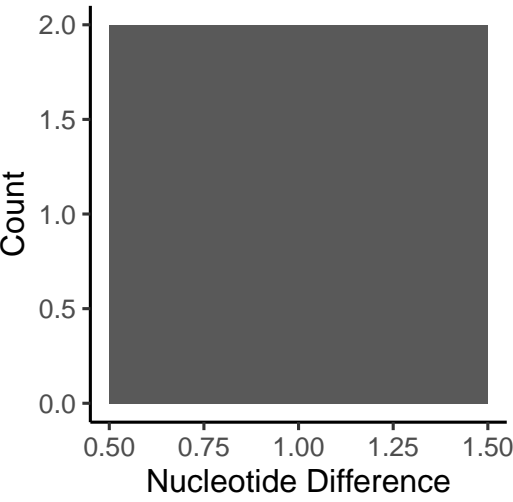
IGHV4–28*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



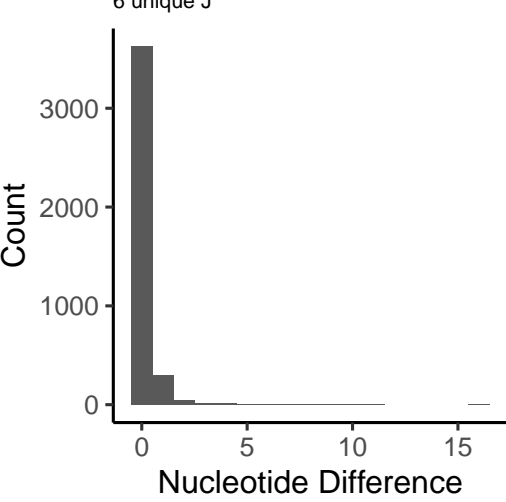
IGHV4-28*04

2 sequences assigned
No exact matches.



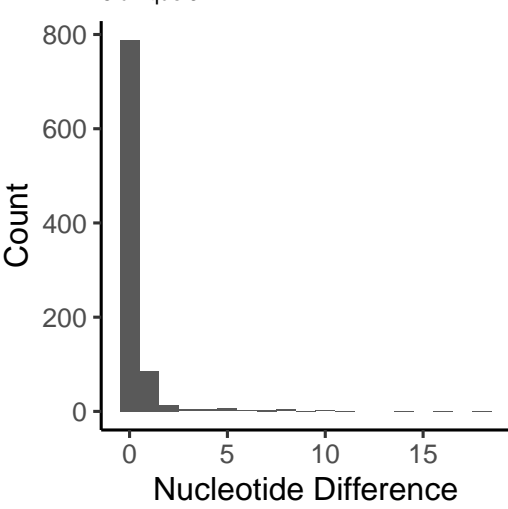
IGHV4-34*01

4029 sequences assigned
3626 (90%) exact matches, in which:
3406 unique CDR3
6 unique J



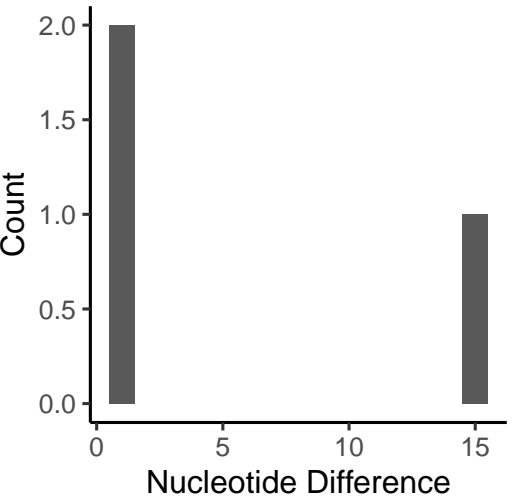
IGHV4-59*08

919 sequences assigned
789 (85.9%) exact matches, in which:
748 unique CDR3
6 unique J



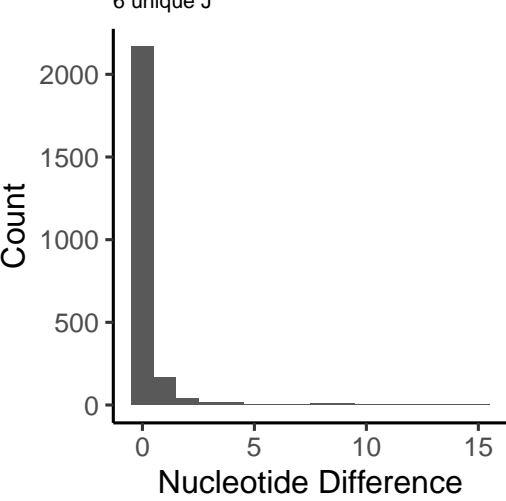
IGHV4-30-2*03

3 sequences assigned
No exact matches.



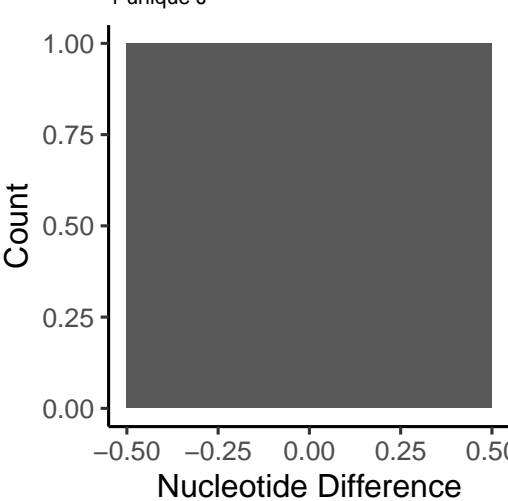
IGHV4-39*01

2450 sequences assigned
2167 (88.4%) exact matches, in which:
2042 unique CDR3
6 unique J



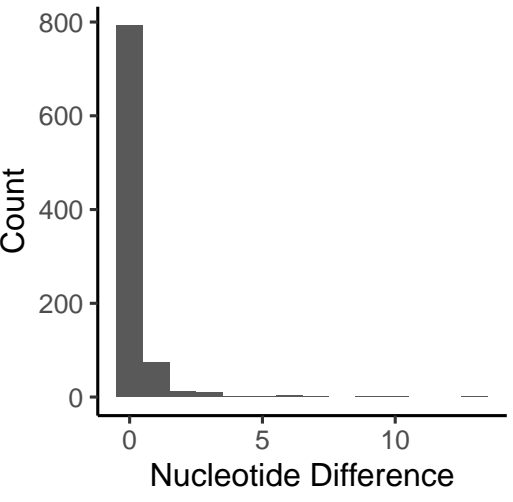
IGHV4-61*02

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



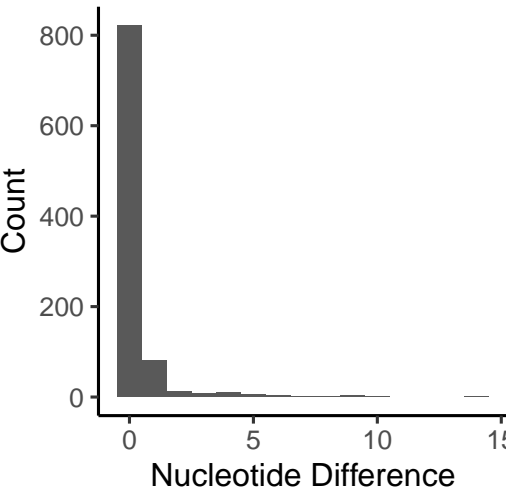
IGHV4-31*03

899 sequences assigned
793 (88.2%) exact matches, in which:
760 unique CDR3
6 unique J



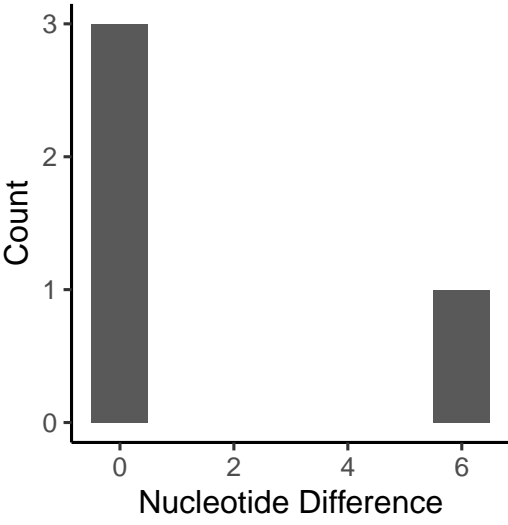
IGHV4-59*01

954 sequences assigned
822 (86.2%) exact matches, in which:
798 unique CDR3
6 unique J



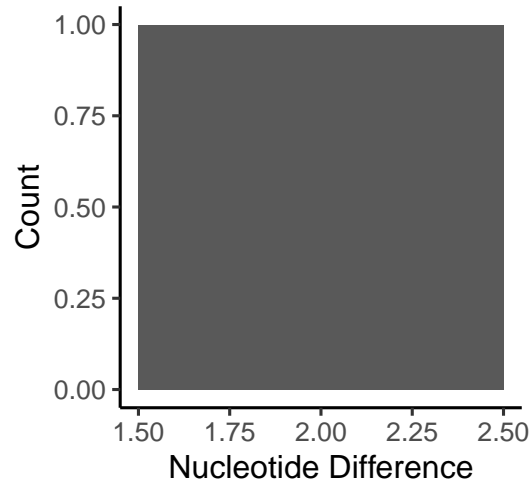
IGHV4-61*07

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
3 unique J



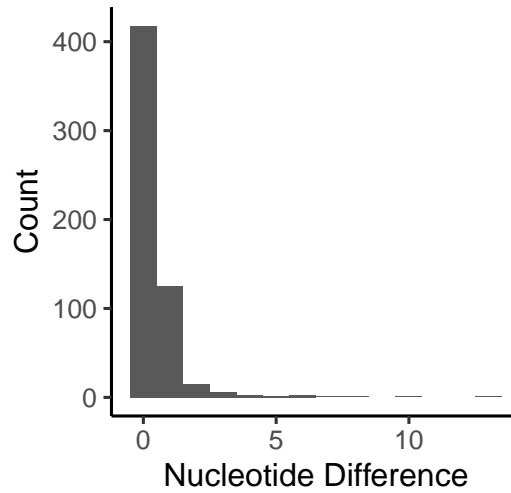
IGHV1/OR15-1*01

1 sequences assigned
No exact matches.



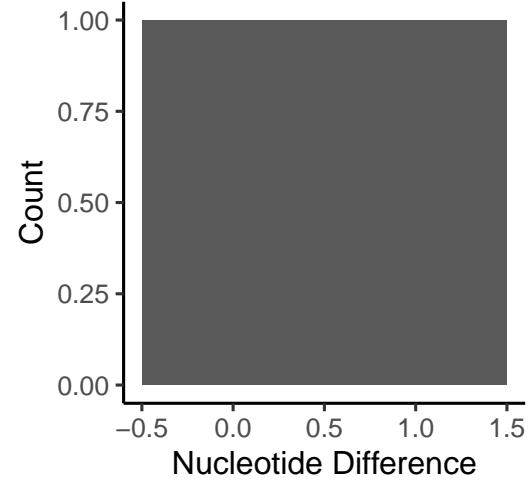
IGHV5-51*01

576 sequences assigned
418 (72.6%) exact matches, in which:
402 unique CDR3
6 unique J



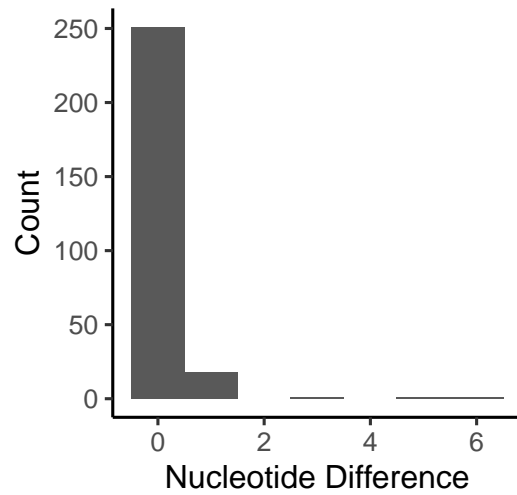
IGHV3/OR16-6*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



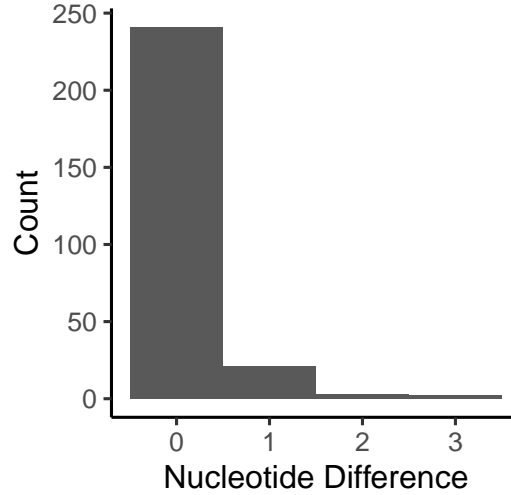
IGHV5-10-1*01

272 sequences assigned
251 (92.3%) exact matches, in which:
243 unique CDR3
5 unique J



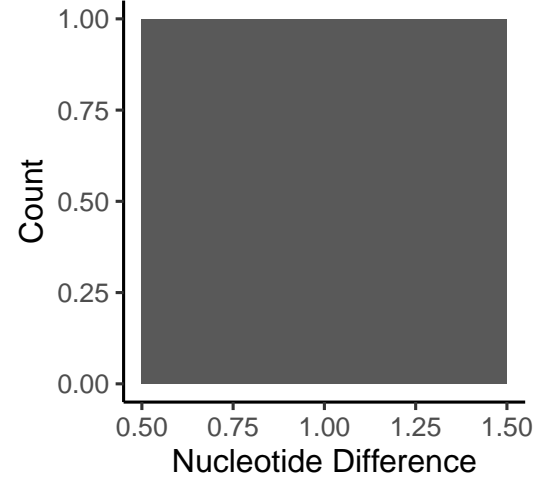
IGHV5-51*03

269 sequences assigned
241 (89.6%) exact matches, in which:
228 unique CDR3
5 unique J



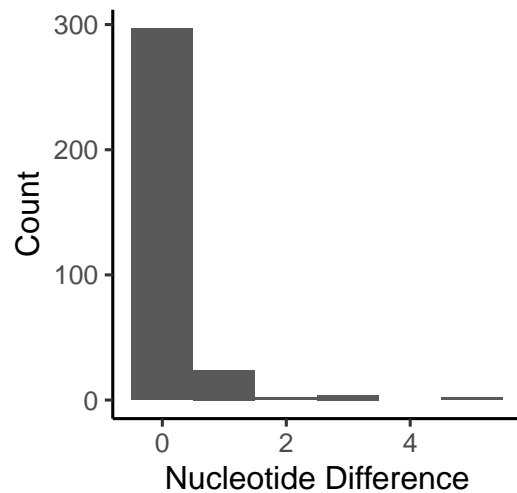
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



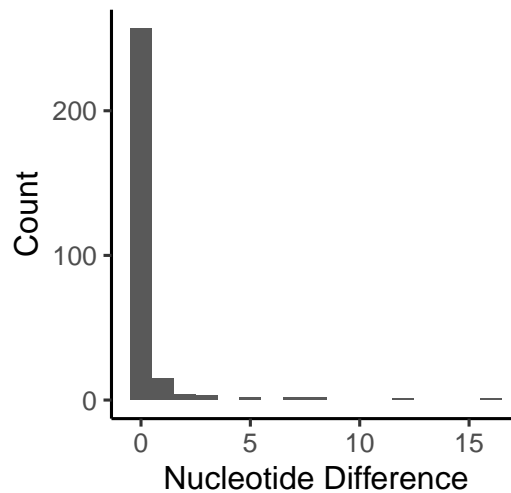
IGHV5-10-1*03

329 sequences assigned
297 (90.3%) exact matches, in which:
291 unique CDR3
6 unique J



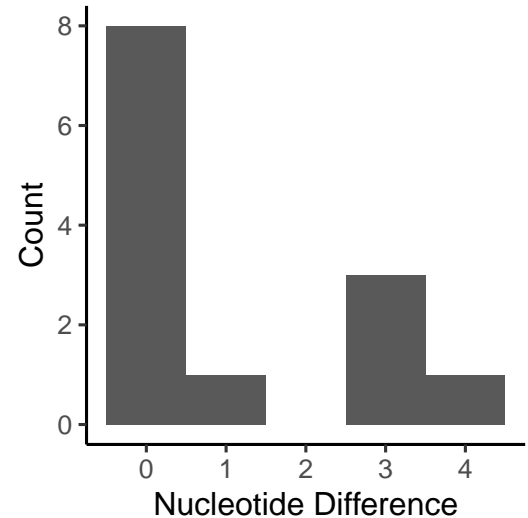
IGHV6-1*01

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



IGHV7-4-1*01

13 sequences assigned
8 (61.5%) exact matches, in which:
8 unique CDR3
3 unique J





Warning – no inferred sequences found.