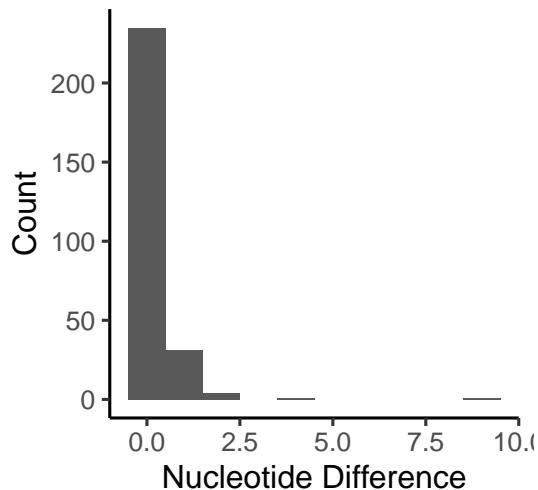


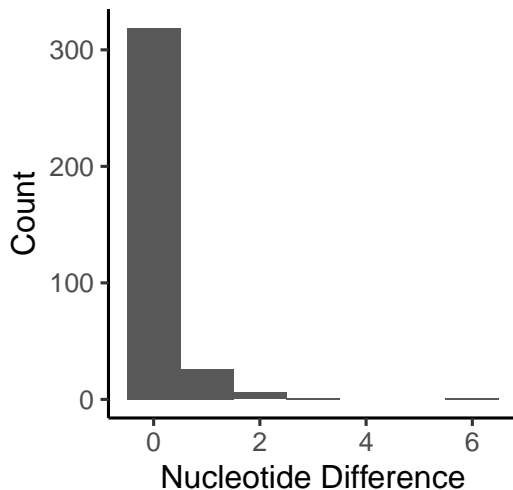
IGHV1-2*04

272 sequences assigned
235 (86.4%) exact matches, in which:
229 unique CDR3
6 unique J



IGHV1-8*01

353 sequences assigned
319 (90.4%) exact matches, in which:
313 unique CDR3
6 unique J



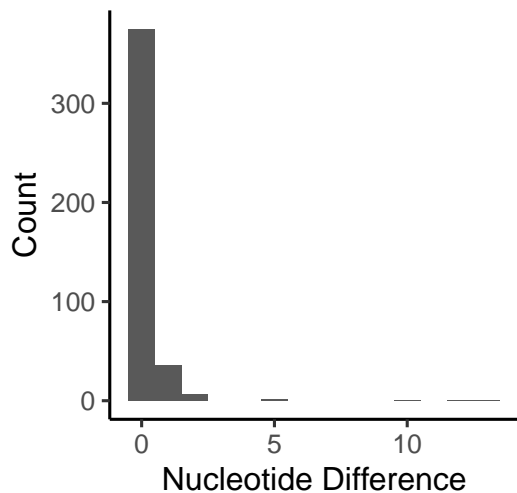
IGHV1-38-4*01

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



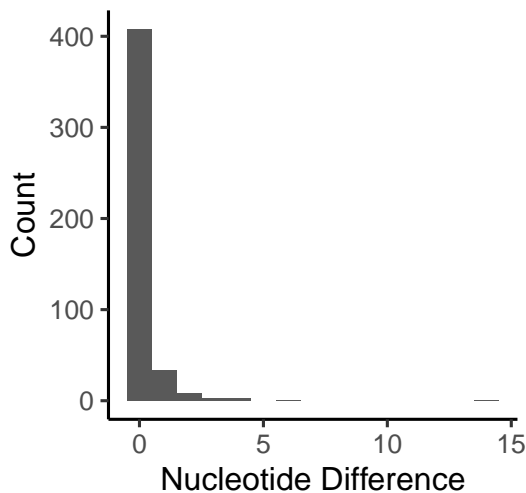
IGHV1-2*06

423 sequences assigned
375 (88.7%) exact matches, in which:
371 unique CDR3
6 unique J



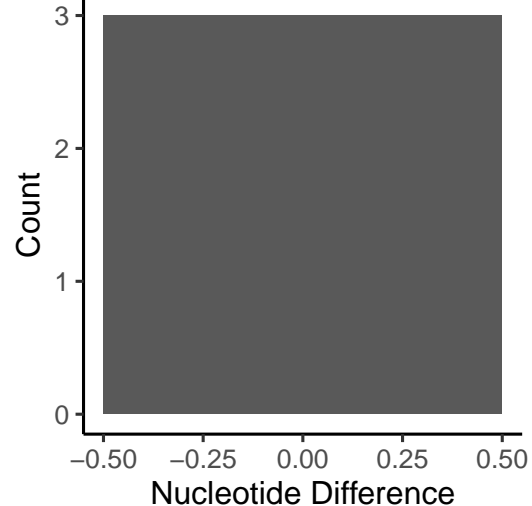
IGHV1-18*01

459 sequences assigned
408 (88.9%) exact matches, in which:
396 unique CDR3
6 unique J



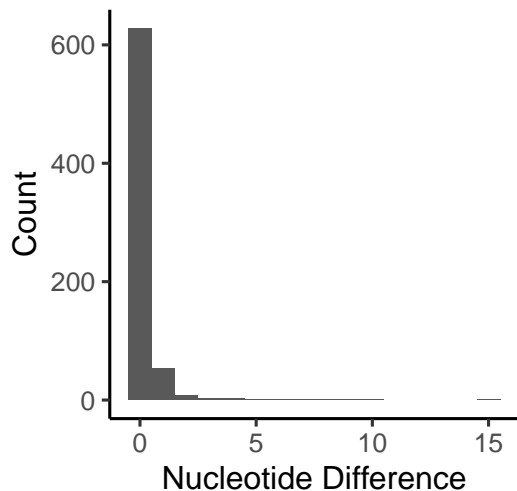
IGHV1-45*02

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



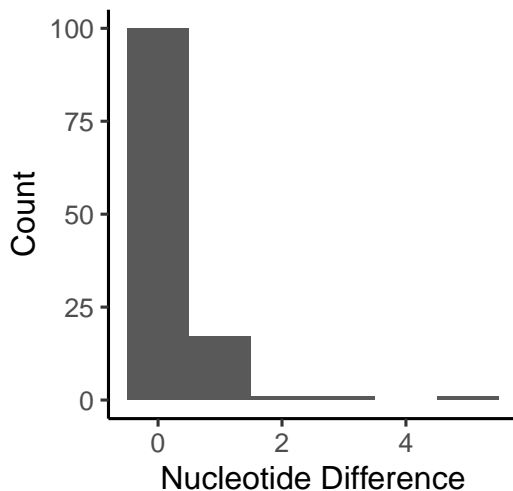
IGHV1-3*01

701 sequences assigned
628 (89.6%) exact matches, in which:
613 unique CDR3
6 unique J



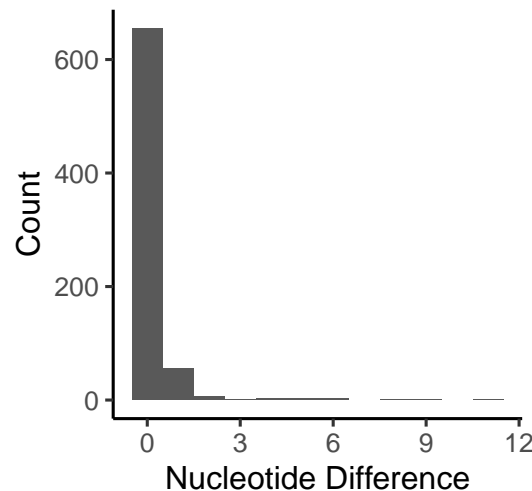
IGHV1-24*01

120 sequences assigned
100 (83.3%) exact matches, in which:
98 unique CDR3
6 unique J



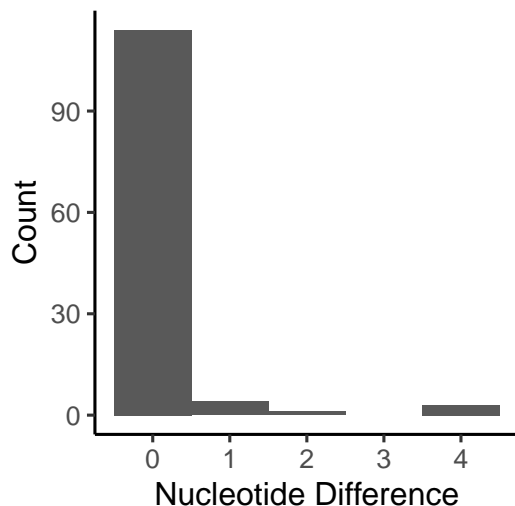
IGHV1-46*01

732 sequences assigned
655 (89.5%) exact matches, in which:
635 unique CDR3
6 unique J



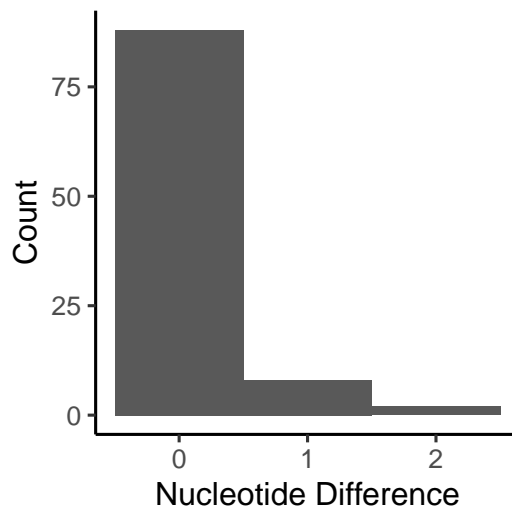
IGHV1-58*02

122 sequences assigned
114 (93.4%) exact matches, in which:
113 unique CDR3
5 unique J



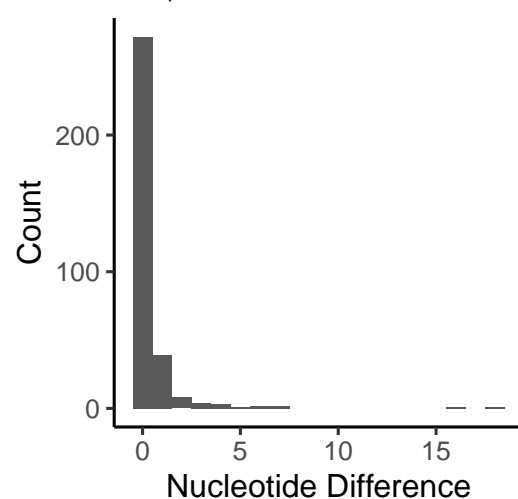
IGHV2-26*01

98 sequences assigned
88 (89.8%) exact matches, in which:
86 unique CDR3
5 unique J



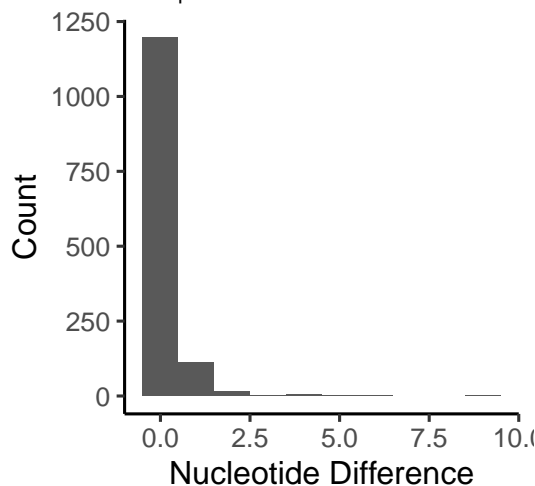
IGHV3-7*04

333 sequences assigned
272 (81.7%) exact matches, in which:
266 unique CDR3
6 unique J



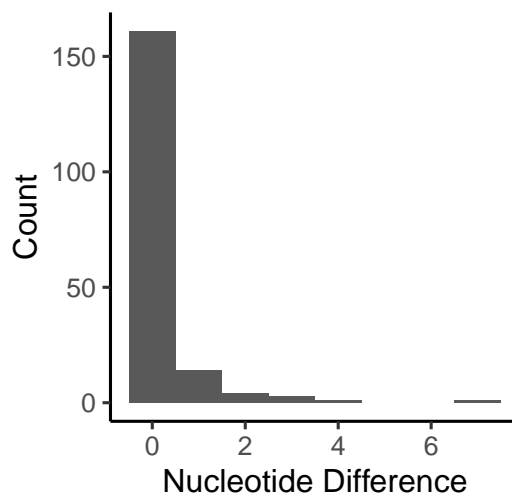
IGHV1-69*04

1338 sequences assigned
1196 (89.4%) exact matches, in which:
1158 unique CDR3
6 unique J



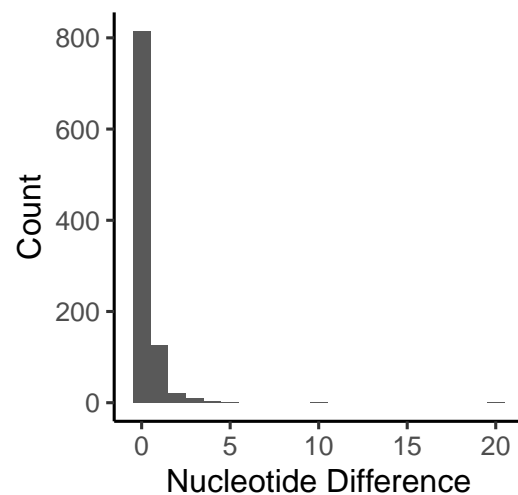
IGHV2-70*15

184 sequences assigned
161 (87.5%) exact matches, in which:
161 unique CDR3
6 unique J



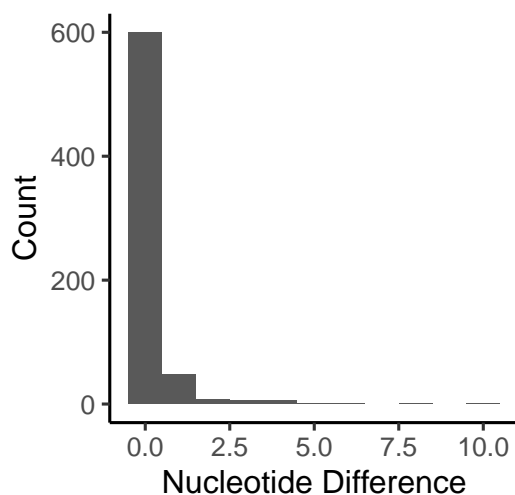
IGHV3-9*01

981 sequences assigned
815 (83.1%) exact matches, in which:
772 unique CDR3
6 unique J



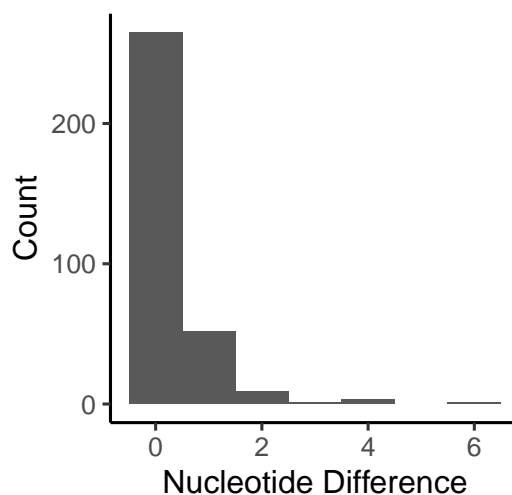
IGHV2-5*02

672 sequences assigned
600 (89.3%) exact matches, in which:
588 unique CDR3
6 unique J



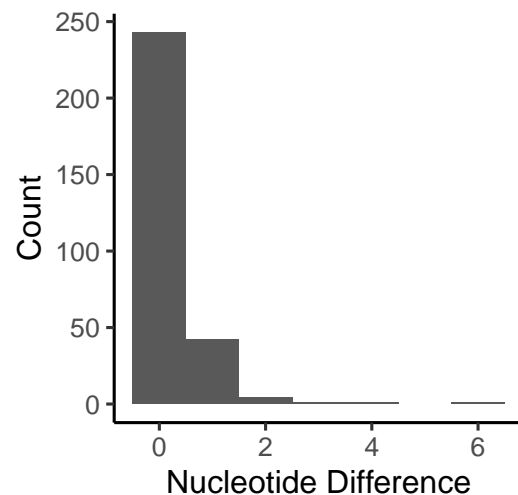
IGHV3-7*01

332 sequences assigned
265 (79.8%) exact matches, in which:
255 unique CDR3
6 unique J



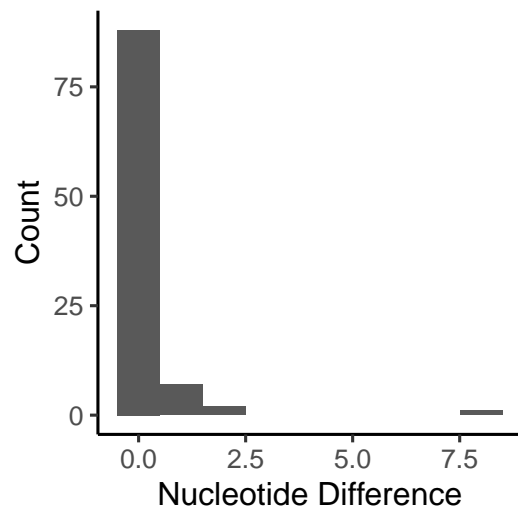
IGHV3-11*01

295 sequences assigned
243 (82.4%) exact matches, in which:
231 unique CDR3
6 unique J



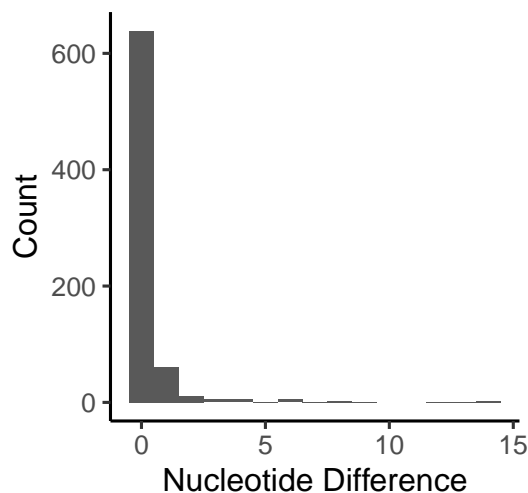
IGHV3-13*01

98 sequences assigned
88 (89.8%) exact matches, in which:
84 unique CDR3
5 unique J



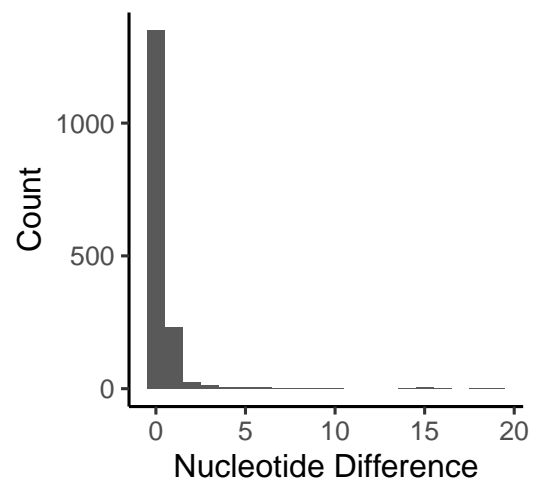
IGHV3-21*01

735 sequences assigned
639 (86.9%) exact matches, in which:
612 unique CDR3
6 unique J



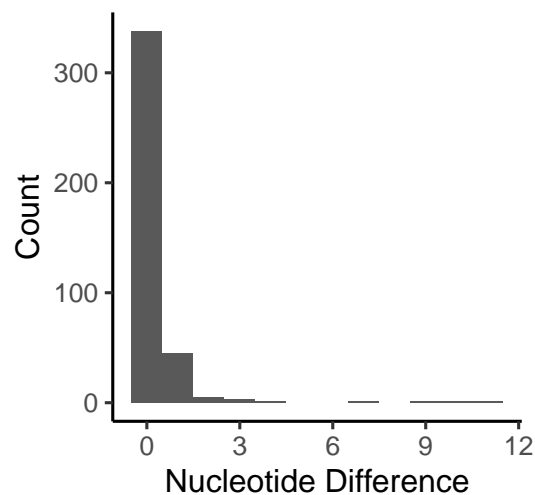
IGHV3-30*18

1654 sequences assigned
1349 (81.6%) exact matches, in which:
1296 unique CDR3
6 unique J



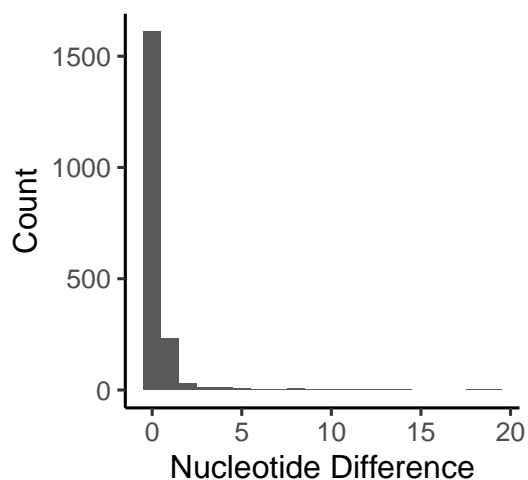
IGHV3-15*01

396 sequences assigned
338 (85.4%) exact matches, in which:
331 unique CDR3
6 unique J



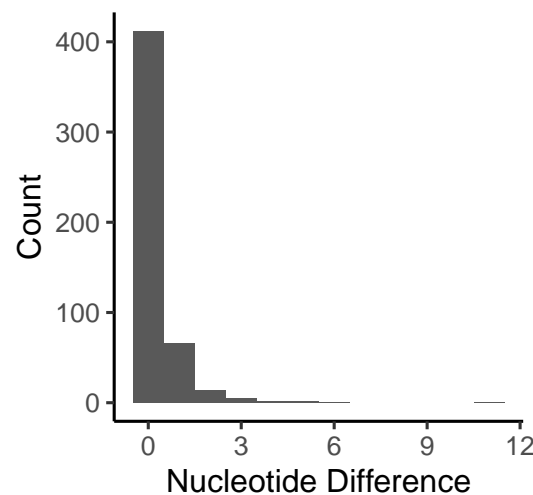
IGHV3-23*01

1926 sequences assigned
1610 (83.6%) exact matches, in which:
1542 unique CDR3
6 unique J



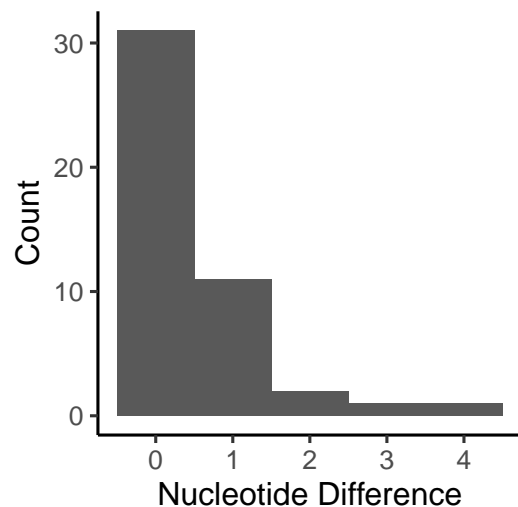
IGHV3-33*01

503 sequences assigned
412 (81.9%) exact matches, in which:
398 unique CDR3
6 unique J



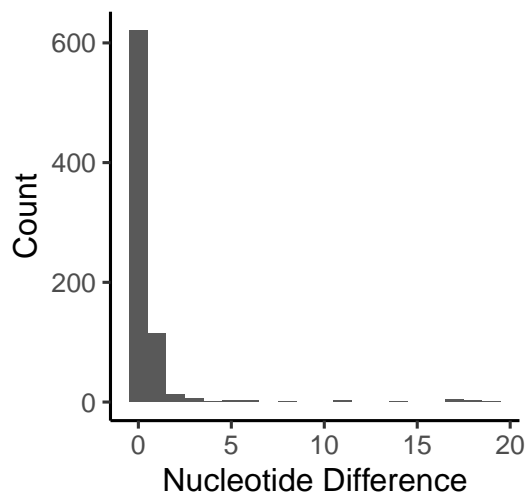
IGHV3-20*01

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



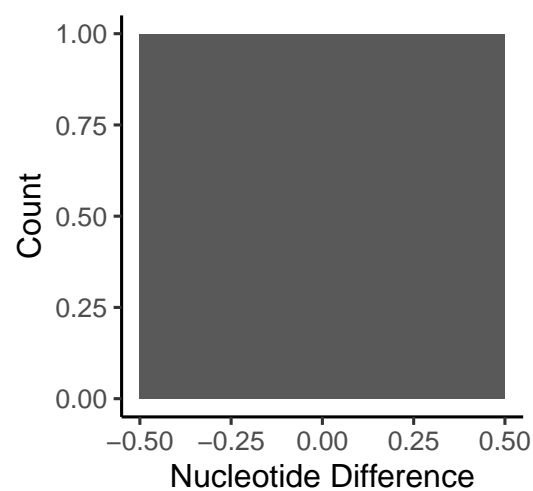
IGHV3-30-3*01

778 sequences assigned
621 (79.8%) exact matches, in which:
597 unique CDR3
6 unique J



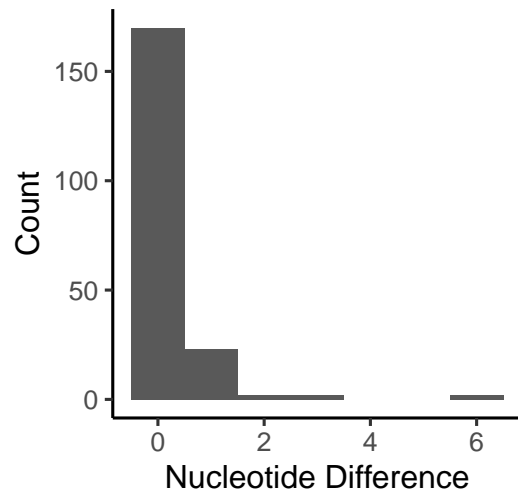
IGHV3-38-3*01

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



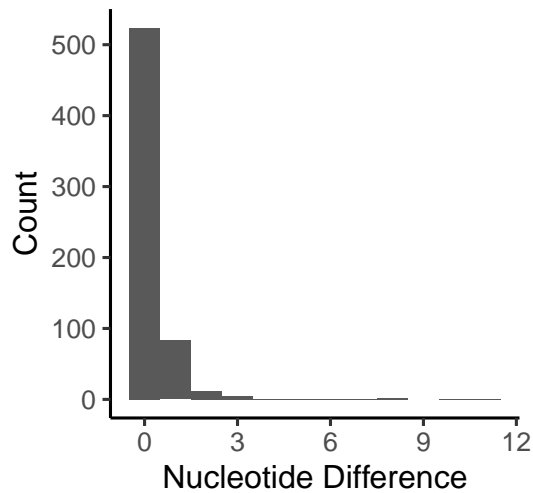
IGHV3-43*01

199 sequences assigned
170 (85.4%) exact matches, in which:
166 unique CDR3
6 unique J



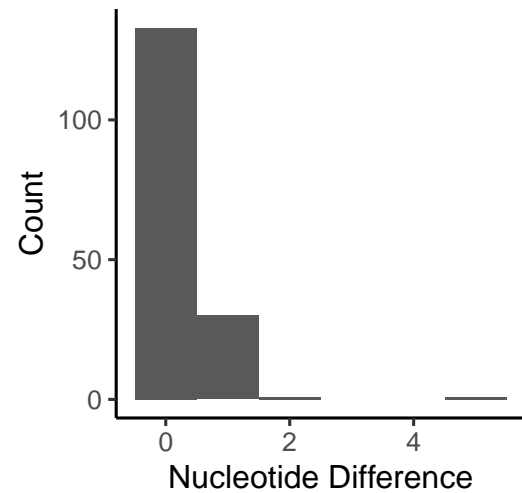
IGHV3-48*03

636 sequences assigned
524 (82.4%) exact matches, in which:
502 unique CDR3
6 unique J



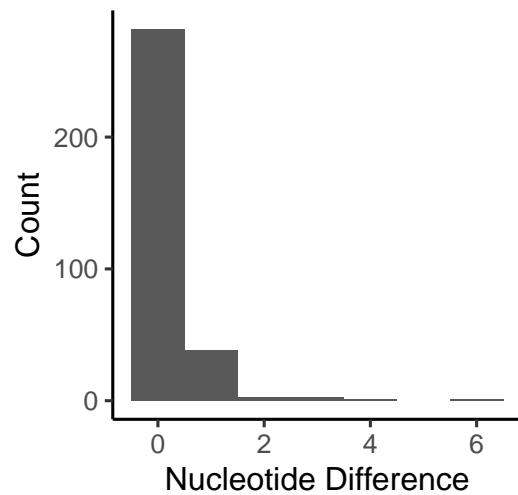
IGHV3-49*04

165 sequences assigned
133 (80.6%) exact matches, in which:
128 unique CDR3
6 unique J



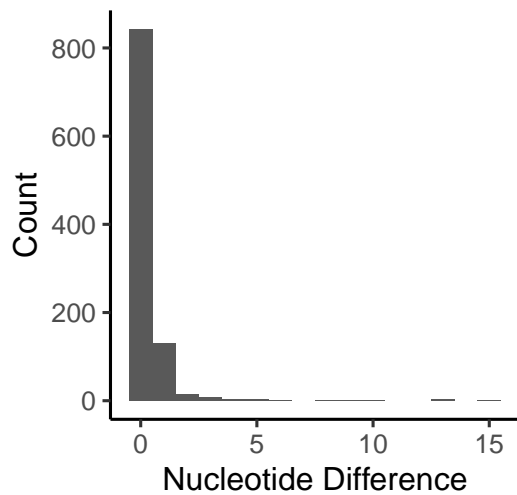
IGHV3-43*02

328 sequences assigned
282 (86%) exact matches, in which:
264 unique CDR3
6 unique J



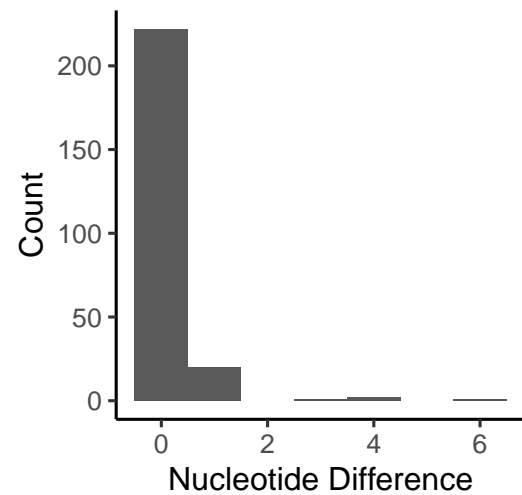
IGHV3-48*04

1014 sequences assigned
843 (83.1%) exact matches, in which:
815 unique CDR3
6 unique J



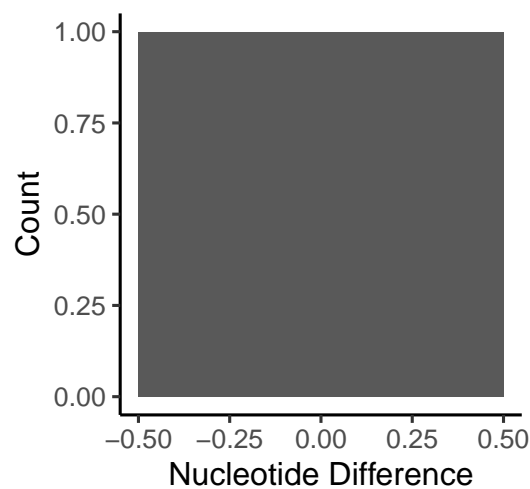
IGHV3-53*04

246 sequences assigned
222 (90.2%) exact matches, in which:
212 unique CDR3
6 unique J



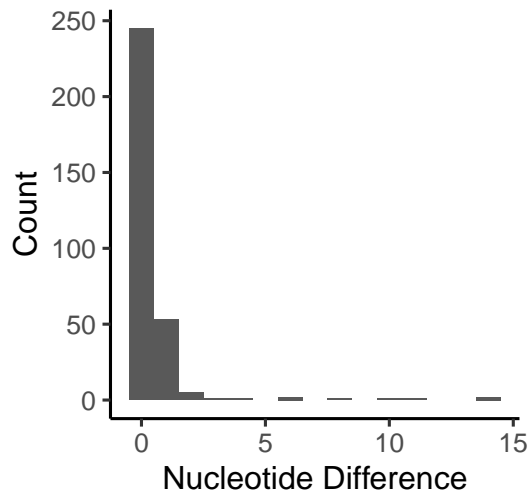
IGHV3-47*01

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



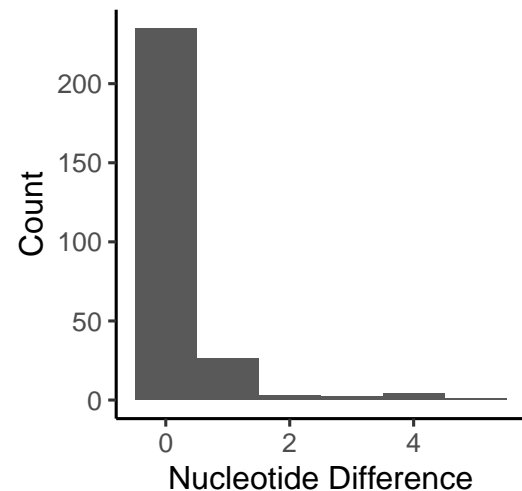
IGHV3-49*03

312 sequences assigned
245 (78.5%) exact matches, in which:
241 unique CDR3
6 unique J



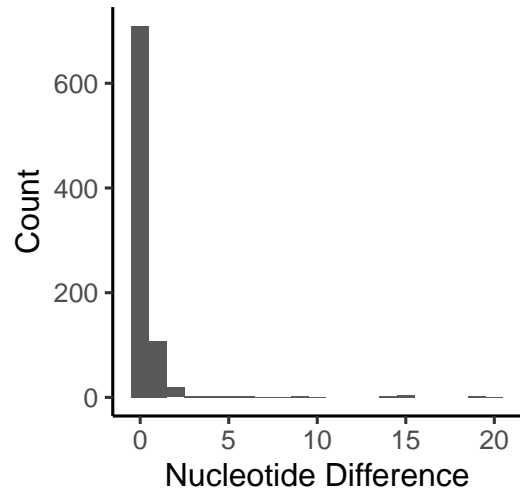
IGHV3-64*01

271 sequences assigned
235 (86.7%) exact matches, in which:
225 unique CDR3
6 unique J



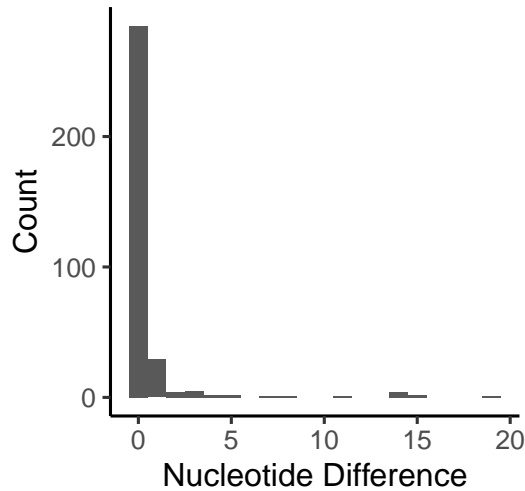
IGHV3–66*01

862 sequences assigned
710 (82.4%) exact matches, in which:
677 unique CDR3
6 unique J



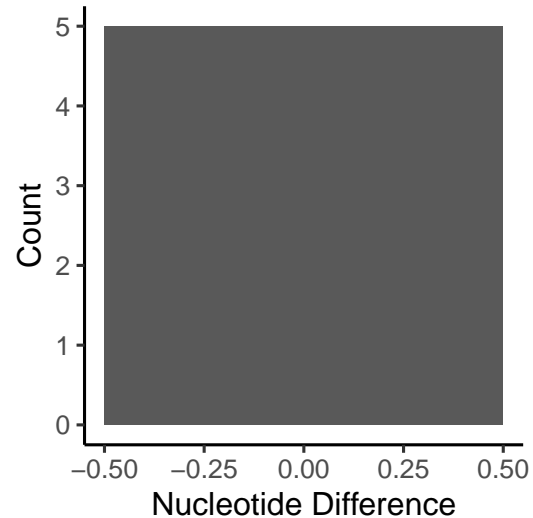
IGHV3–74*01

343 sequences assigned
285 (83.1%) exact matches, in which:
277 unique CDR3
6 unique J



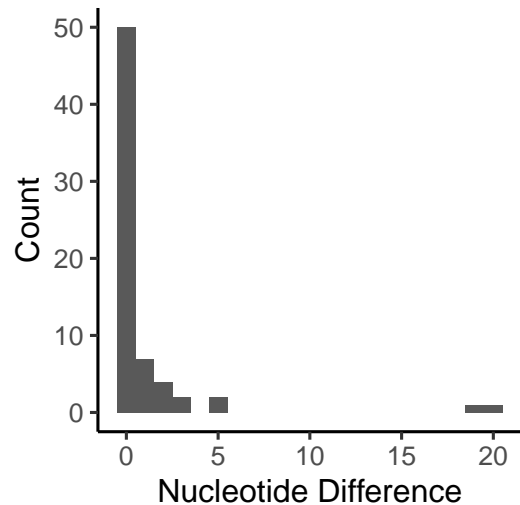
IGHV4–28*01

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



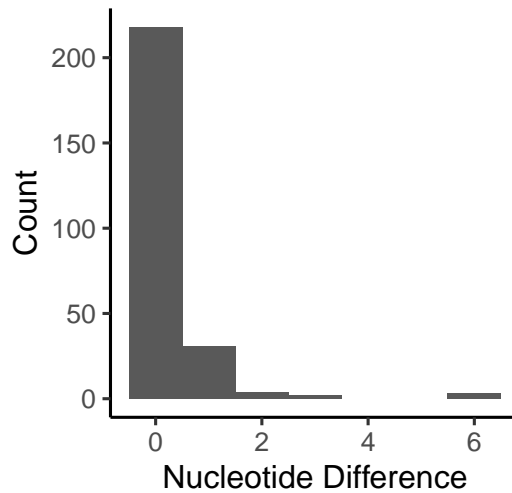
IGHV3–72*01

67 sequences assigned
50 (74.6%) exact matches, in which:
50 unique CDR3
5 unique J



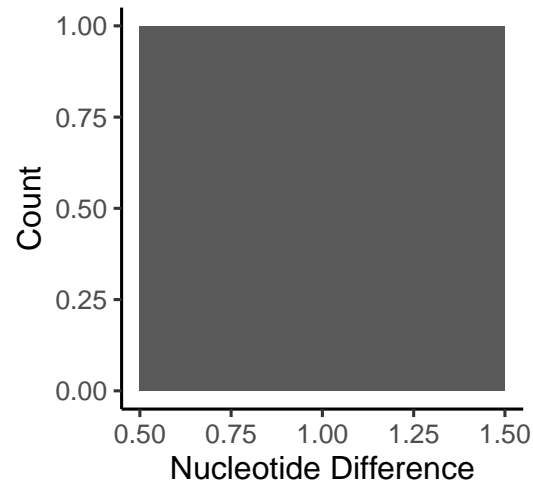
IGHV3–43D*03

258 sequences assigned
218 (84.5%) exact matches, in which:
207 unique CDR3
6 unique J



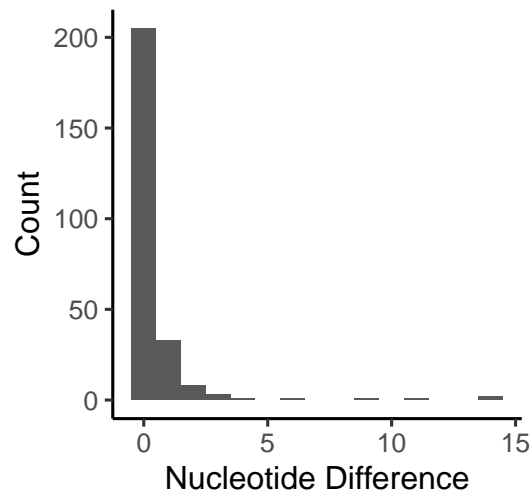
IGHV4–28*04

1 sequences assigned
No exact matches.



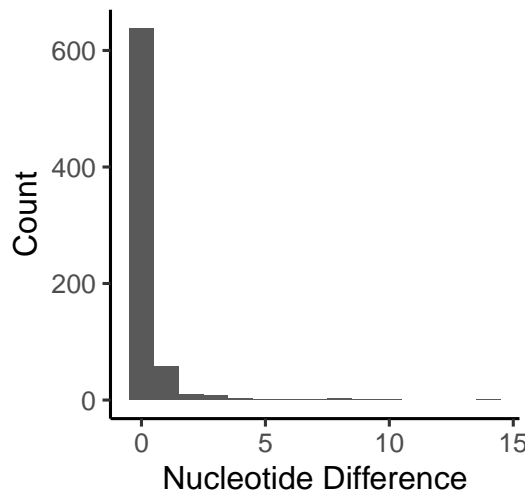
IGHV3–73*01

256 sequences assigned
205 (80.1%) exact matches, in which:
194 unique CDR3
5 unique J



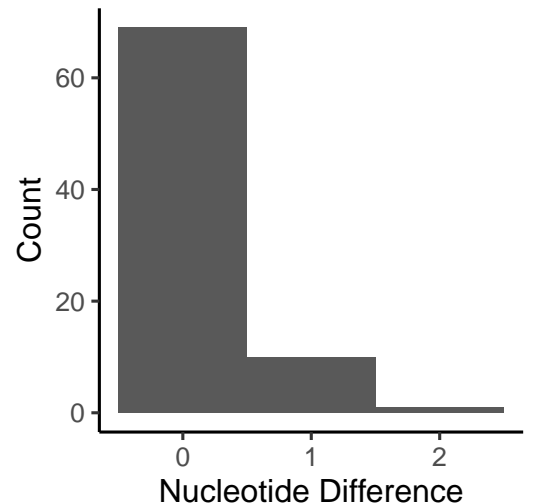
IGHV4–4*02

723 sequences assigned
638 (88.2%) exact matches, in which:
628 unique CDR3
6 unique J



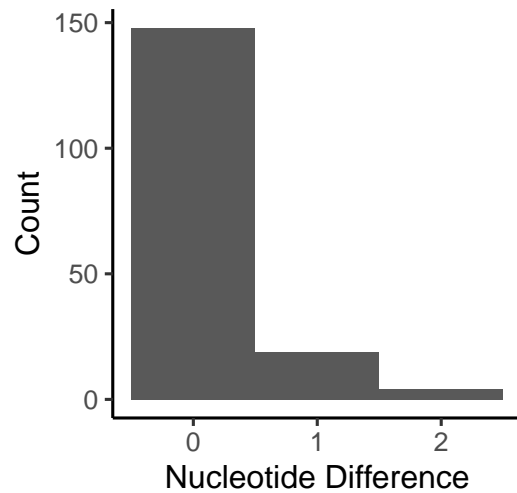
IGHV4–30–2*01

80 sequences assigned
69 (86.2%) exact matches, in which:
69 unique CDR3
6 unique J



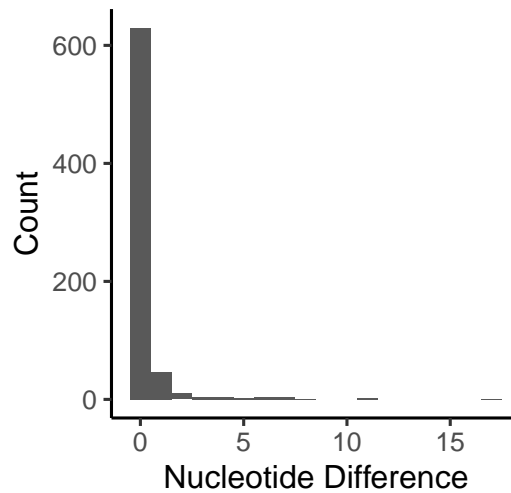
IGHV4-30-4*01

172 sequences assigned
148 (86%) exact matches, in which:
147 unique CDR3
5 unique J



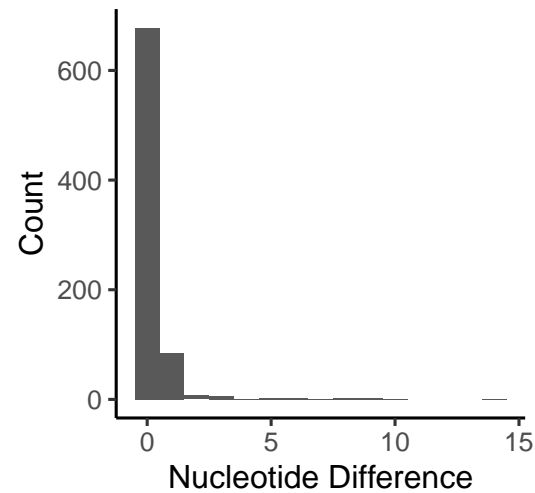
IGHV4-38-2*02

715 sequences assigned
630 (88.1%) exact matches, in which:
604 unique CDR3
6 unique J



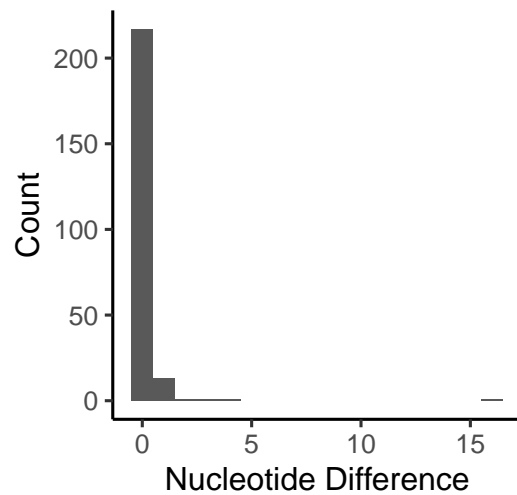
IGHV4-59*01

789 sequences assigned
678 (85.9%) exact matches, in which:
666 unique CDR3
6 unique J



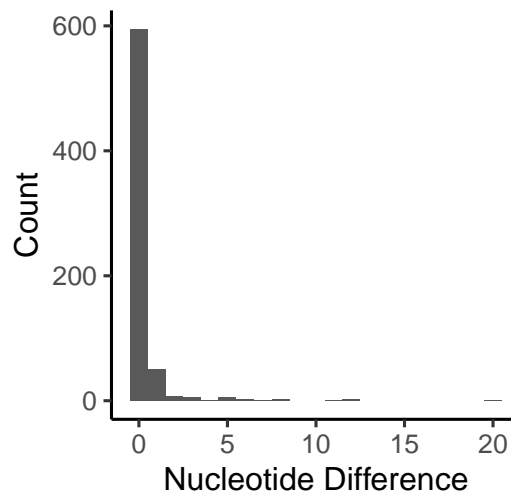
IGHV4-31*03

234 sequences assigned
217 (92.7%) exact matches, in which:
213 unique CDR3
6 unique J



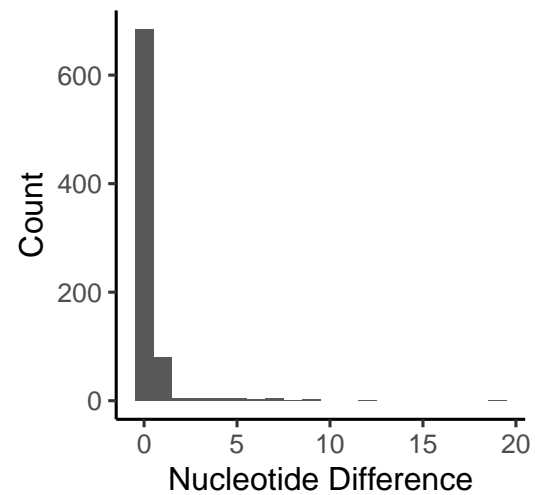
IGHV4-39*01

674 sequences assigned
595 (88.3%) exact matches, in which:
570 unique CDR3
6 unique J



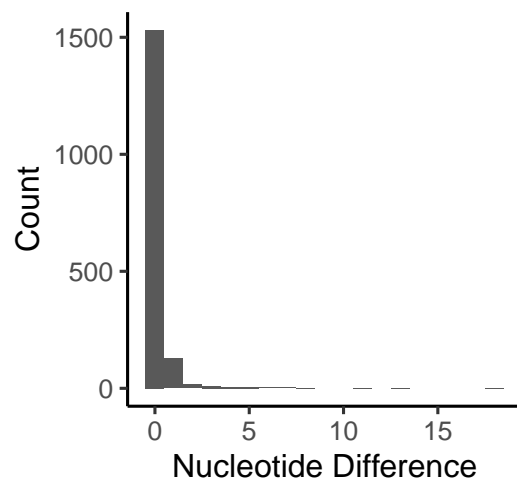
IGHV4-59*08

796 sequences assigned
685 (86.1%) exact matches, in which:
674 unique CDR3
6 unique J



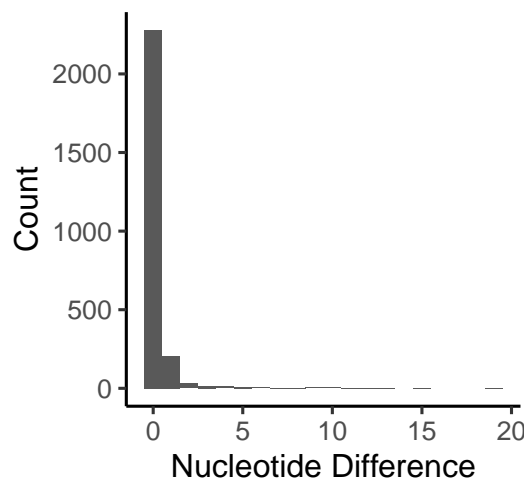
IGHV4-34*01

1712 sequences assigned
1531 (89.4%) exact matches, in which:
1477 unique CDR3
6 unique J



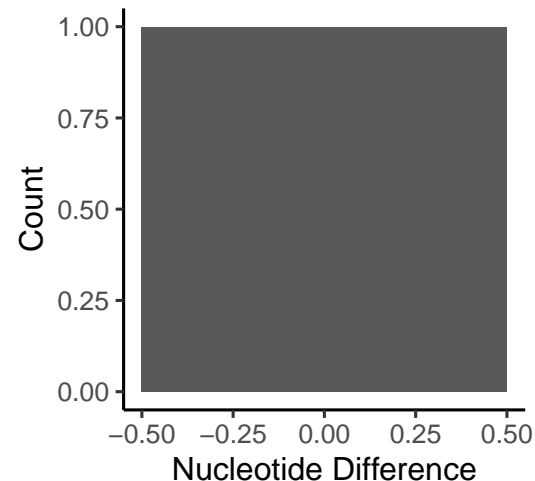
IGHV4-39*07

2584 sequences assigned
2279 (88.2%) exact matches, in which:
2205 unique CDR3
6 unique J



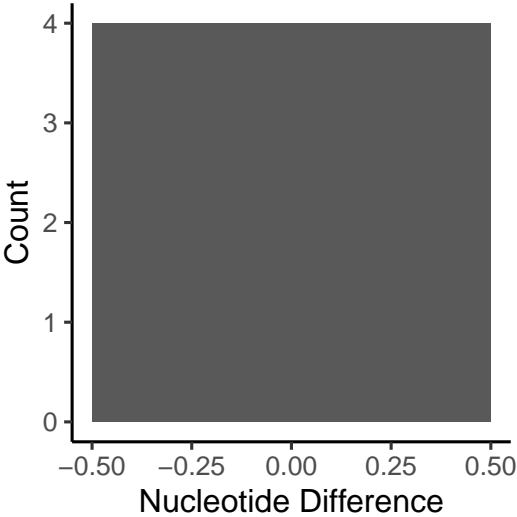
IGHV4-61*02

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



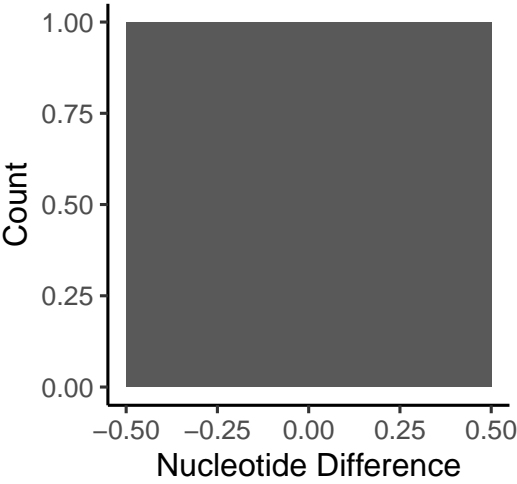
IGHV4–61*07

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



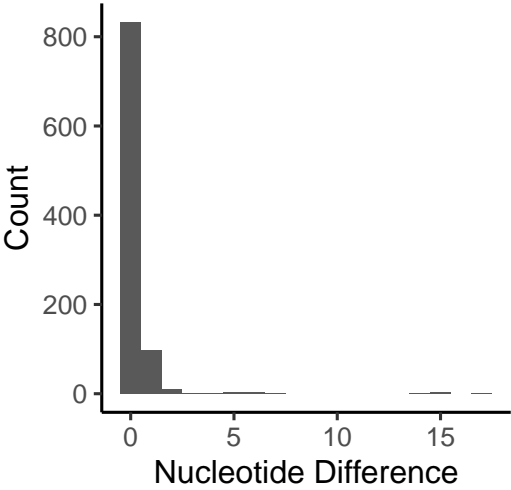
IGHV3/OR16–12*01

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



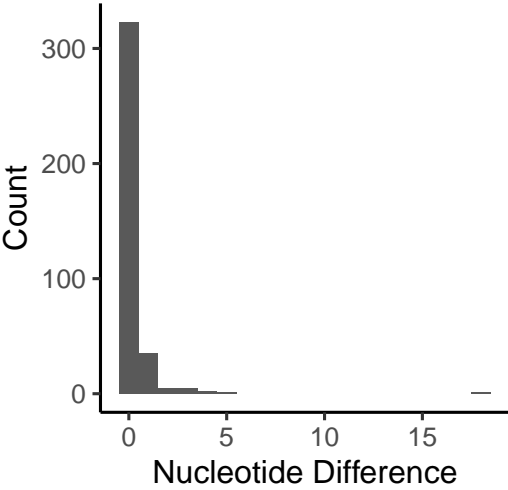
IGHV5–51*01

959 sequences assigned
833 (86.9%) exact matches, in which:
810 unique CDR3
6 unique J



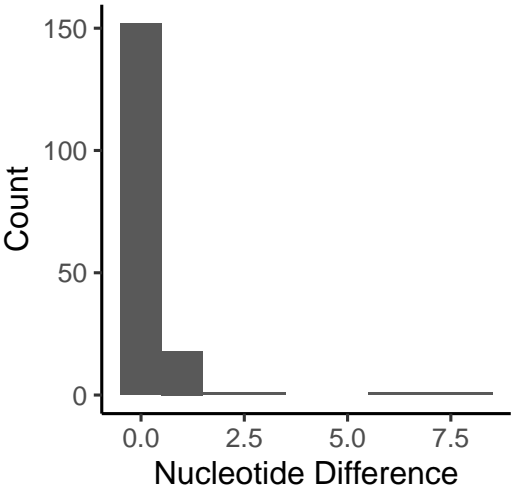
IGHV7–4–1*02

372 sequences assigned
323 (86.8%) exact matches, in which:
317 unique CDR3
6 unique J



IGHV6–1*01

175 sequences assigned
152 (86.9%) exact matches, in which:
151 unique CDR3
5 unique J





Warning – no inferred sequences found.