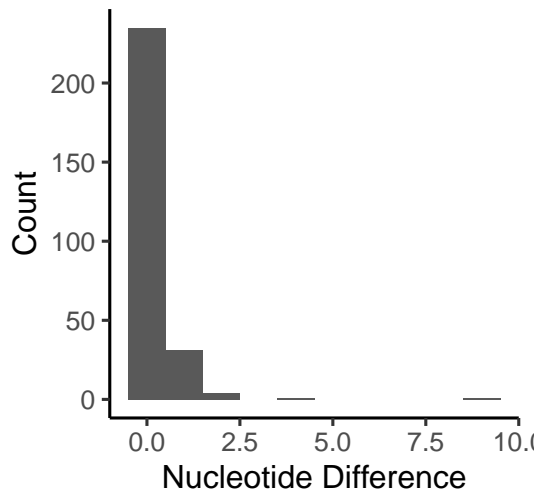


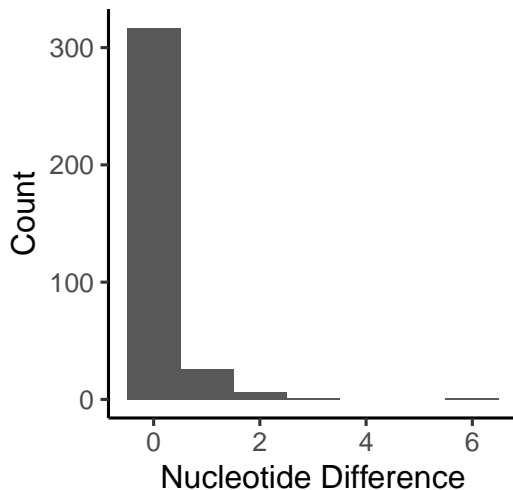
IGHV1-2*04

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



IGHV1-8*01

352 sequences assigned
317 (90.1%) exact matches, in which:
311 unique CDR3
6 unique J



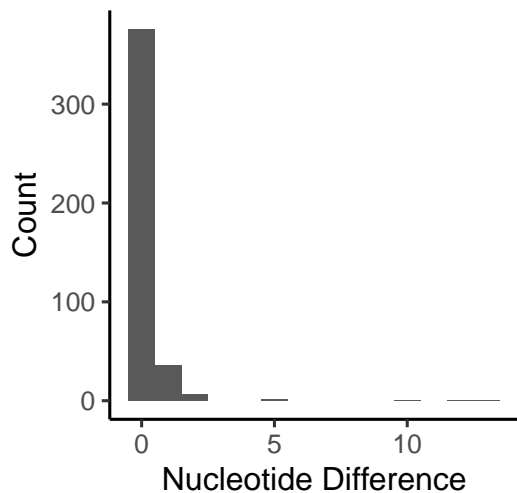
IGHV1-38-4*01

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



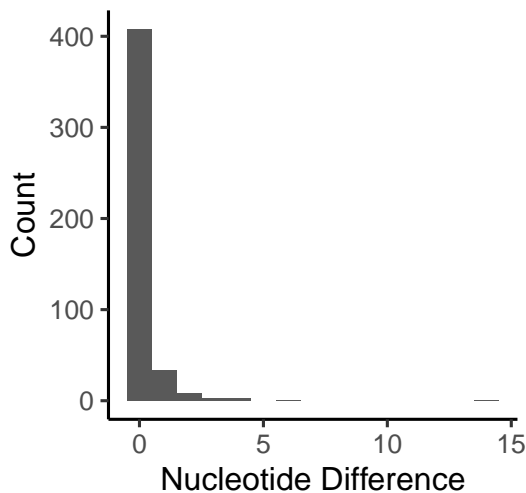
IGHV1-2*06

424 sequences assigned
376 (88.7%) exact matches, in which:
372 unique CDR3
6 unique J



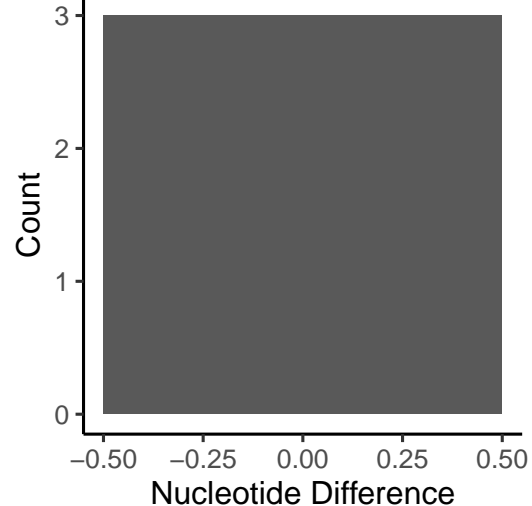
IGHV1-18*01

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



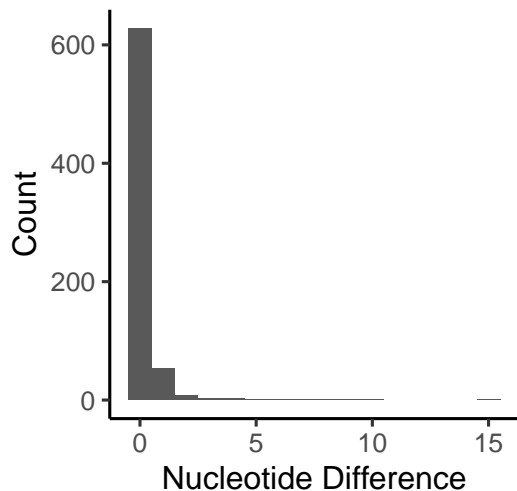
IGHV1-45*02

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



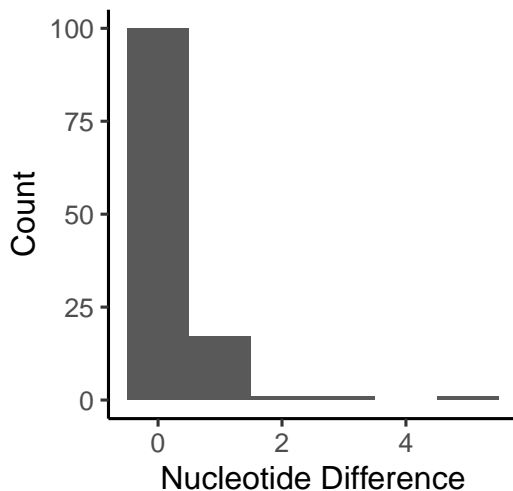
IGHV1-3*01

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



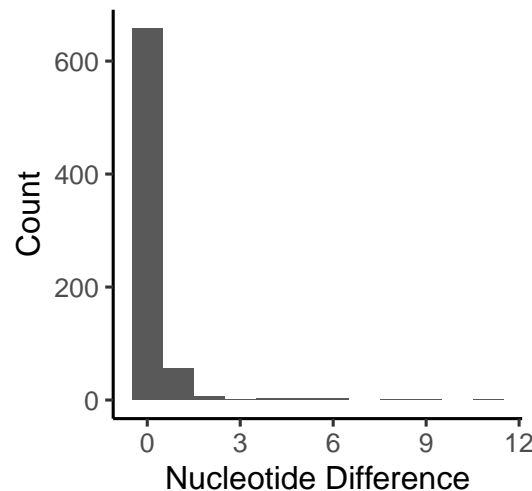
IGHV1-24*01

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



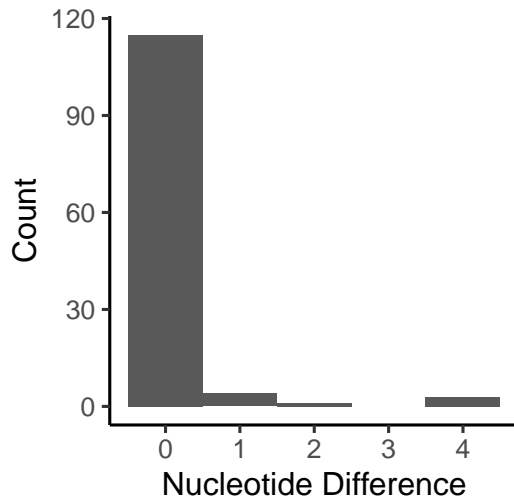
IGHV1-46*01

735 sequences assigned
658 (89.5%) exact matches, in which:
638 unique CDR3
6 unique J



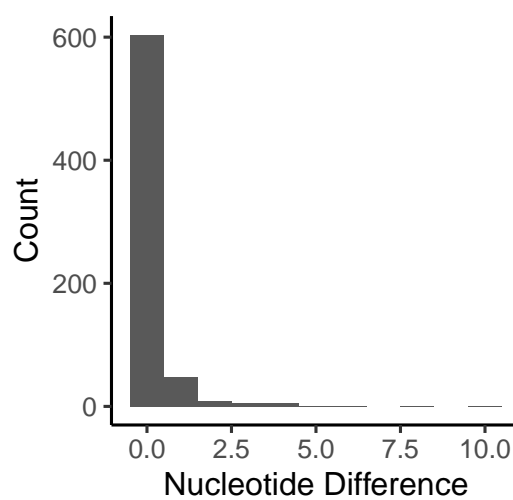
IGHV1–58*02

123 sequences assigned
115 (93.5%) exact matches, in which:
114 unique CDR3
5 unique J



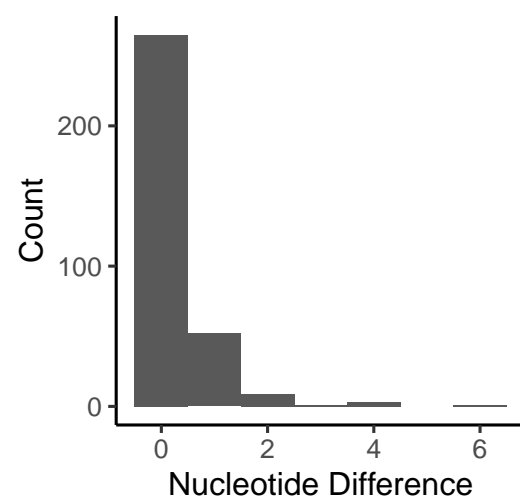
IGHV2–5*02

677 sequences assigned
604 (89.2%) exact matches, in which:
592 unique CDR3
6 unique J



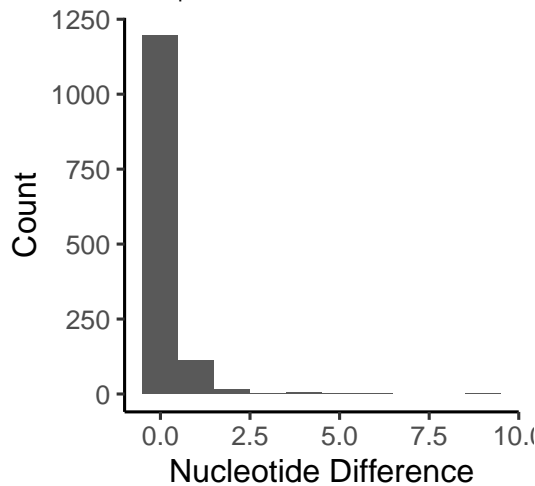
IGHV3–7*01

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



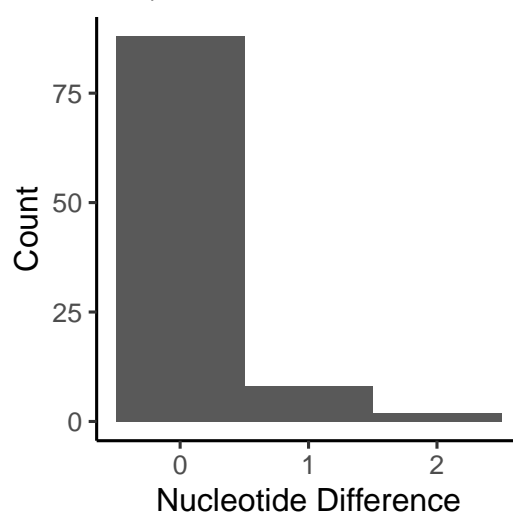
IGHV1–69*04

1339 sequences assigned
1195 (89.2%) exact matches, in which:
1157 unique CDR3
6 unique J



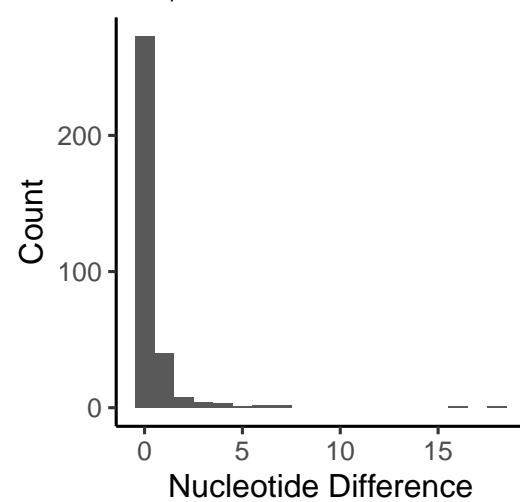
IGHV2–26*01

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



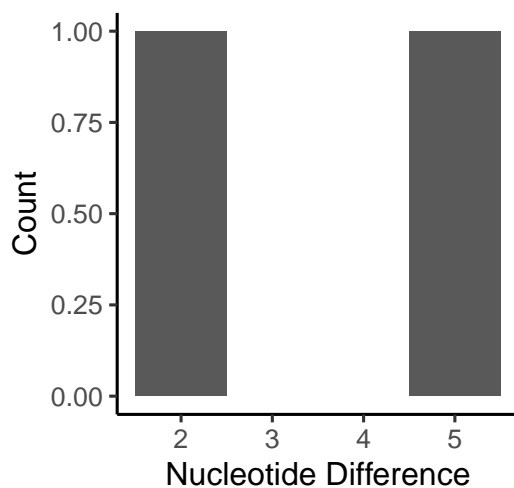
IGHV3–7*04

335 sequences assigned
273 (81.5%) exact matches, in which:
267 unique CDR3
6 unique J



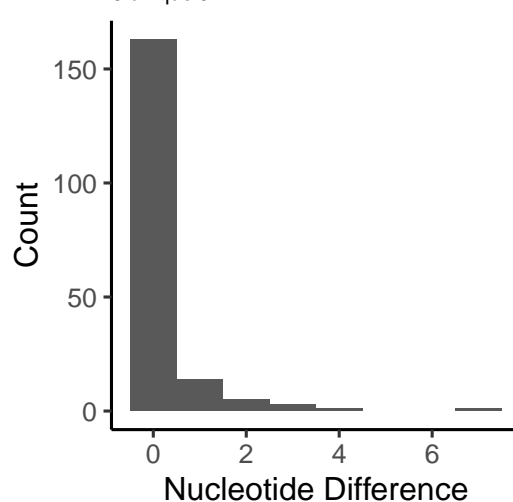
IGHV1–69D*01

2 sequences assigned
No exact matches.



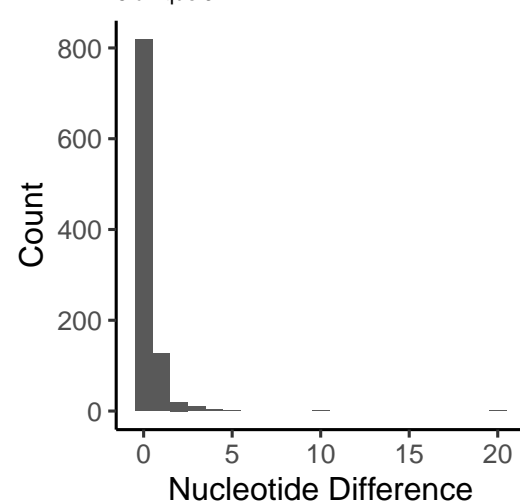
IGHV2–70*15

187 sequences assigned
163 (87.2%) exact matches, in which:
163 unique CDR3
6 unique J



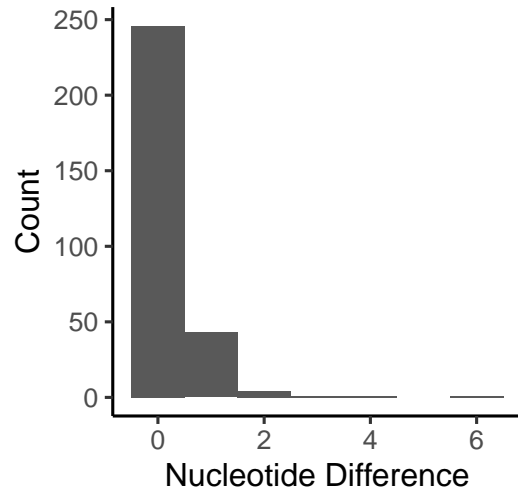
IGHV3–9*01

986 sequences assigned
819 (83.1%) exact matches, in which:
776 unique CDR3
6 unique J



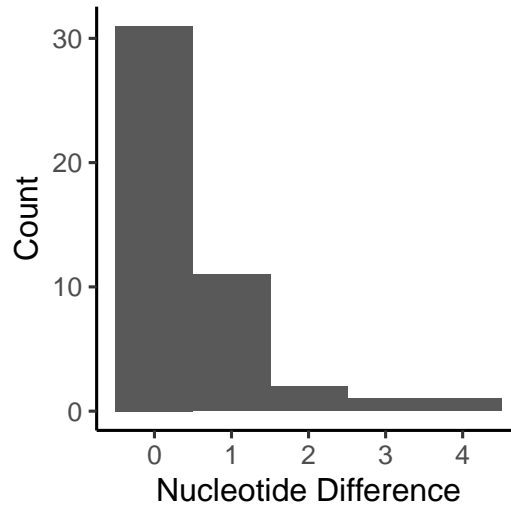
IGHV3–11*01

300 sequences assigned
246 (82%) exact matches, in which:
234 unique CDR3
6 unique J



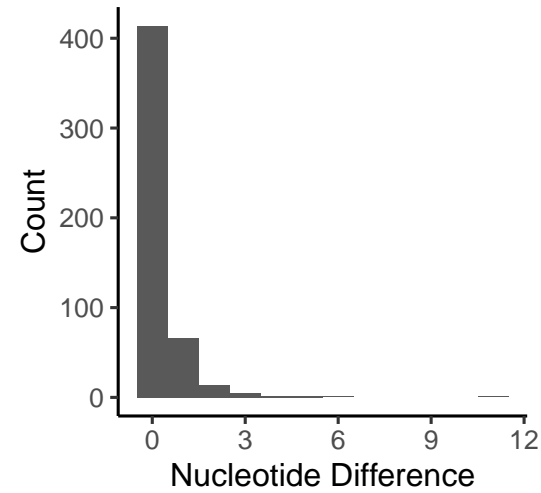
IGHV3–20*01

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



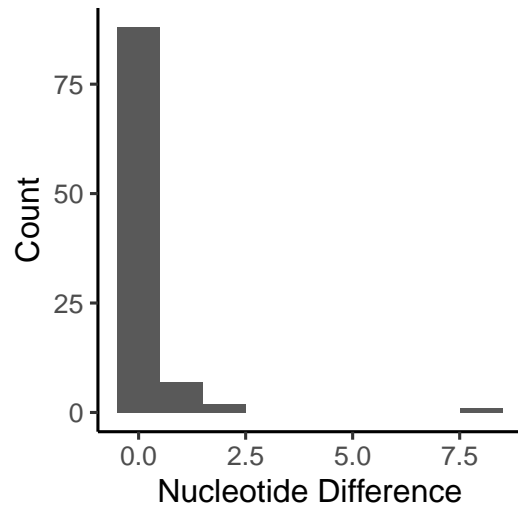
IGHV3–33*01

505 sequences assigned
414 (82%) exact matches, in which:
400 unique CDR3
6 unique J



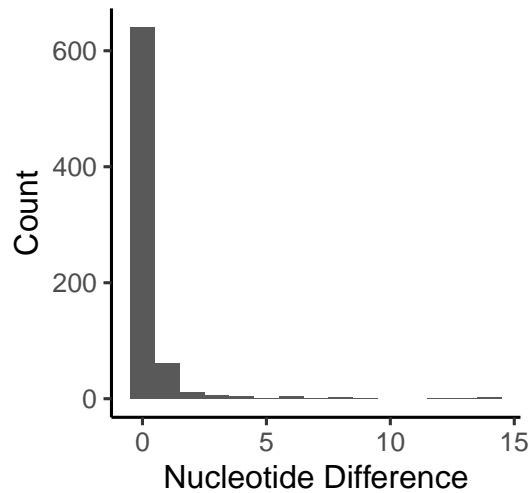
IGHV3–13*01

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



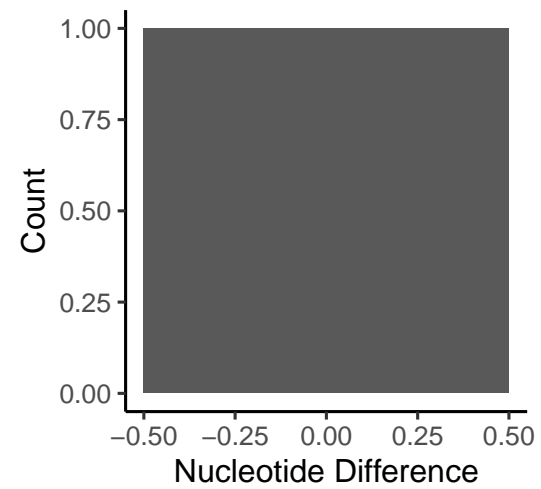
IGHV3–21*01

740 sequences assigned
641 (86.6%) exact matches, in which:
614 unique CDR3
6 unique J



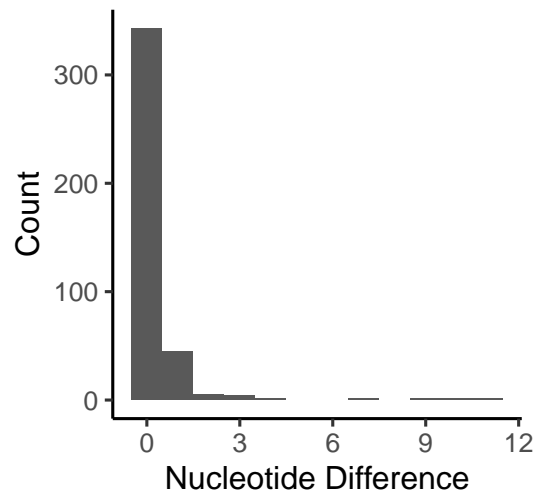
IGHV3–38–3*01

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



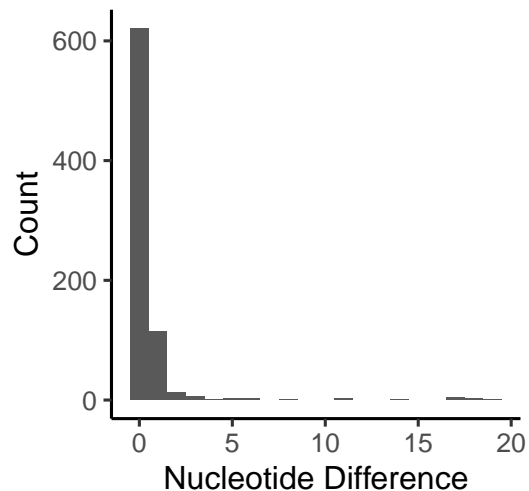
IGHV3–15*01

402 sequences assigned
343 (85.3%) exact matches, in which:
336 unique CDR3
6 unique J



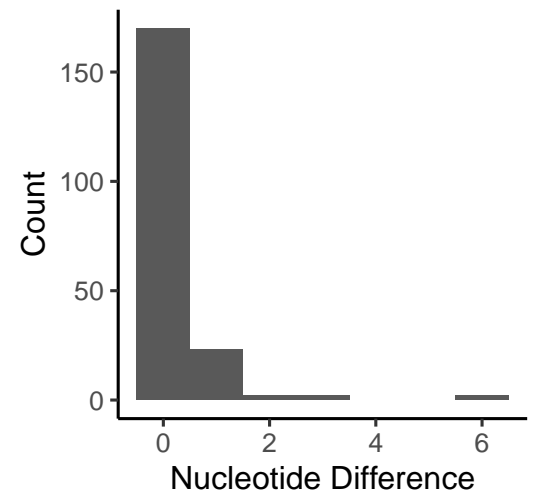
IGHV3–30–3*01

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



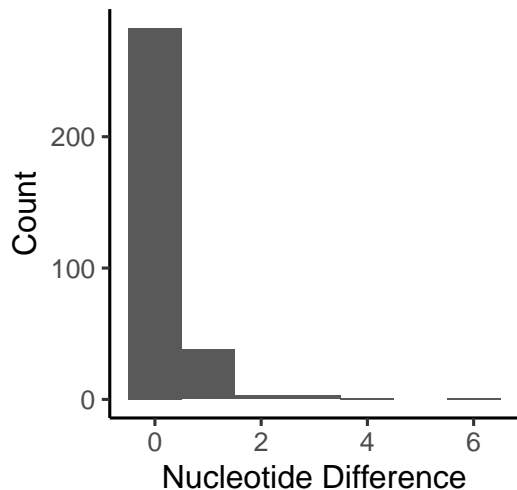
IGHV3–43*01

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



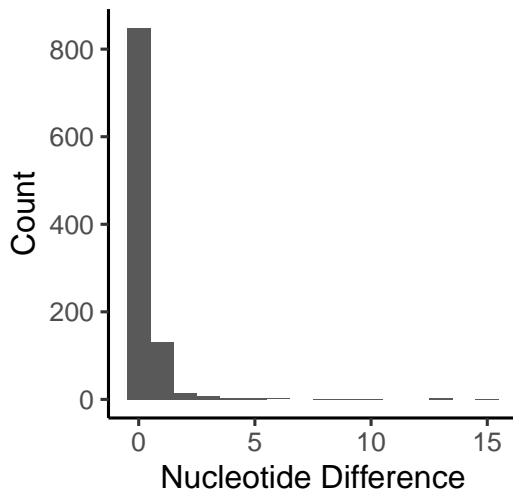
IGHV3-43*02

329 sequences assigned
283 (86%) exact matches, in which:
265 unique CDR3
6 unique J



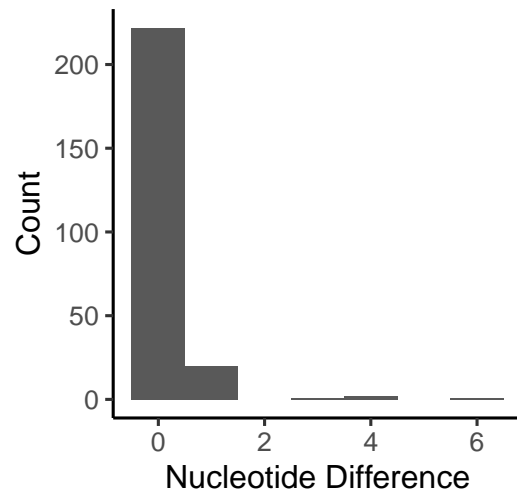
IGHV3-48*04

1022 sequences assigned
849 (83.1%) exact matches, in which:
820 unique CDR3
6 unique J



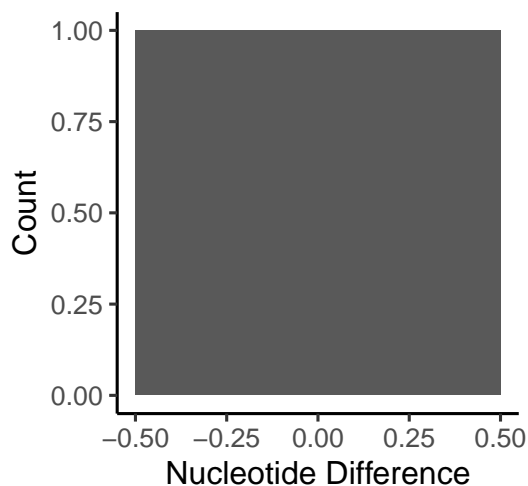
IGHV3-53*04

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



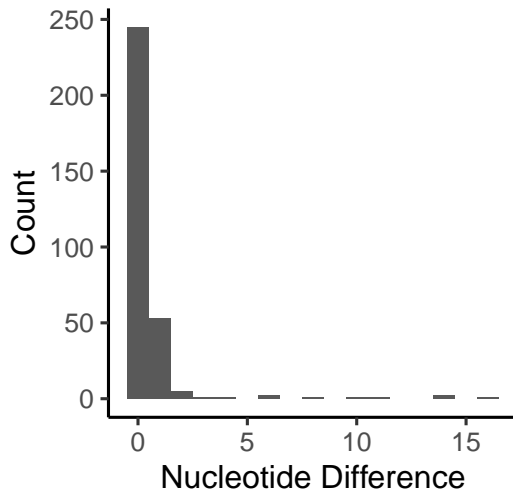
IGHV3-47*01

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



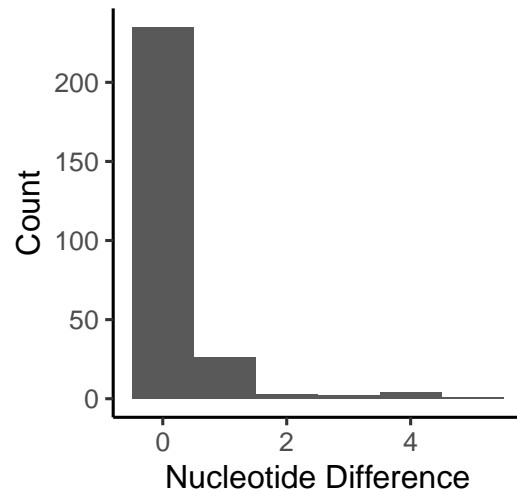
IGHV3-49*03

313 sequences assigned
245 (78.3%) exact matches, in which:
241 unique CDR3
6 unique J



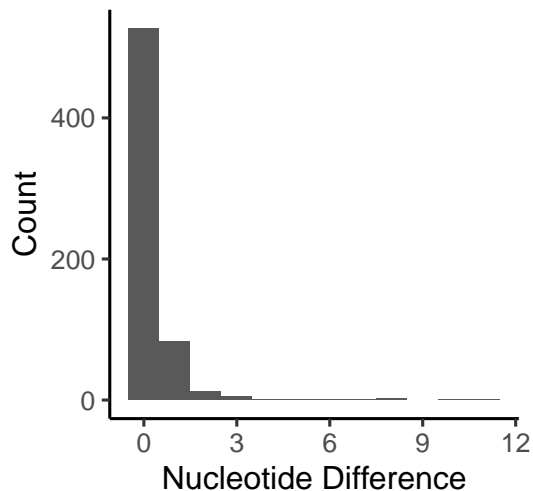
IGHV3-64*01

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



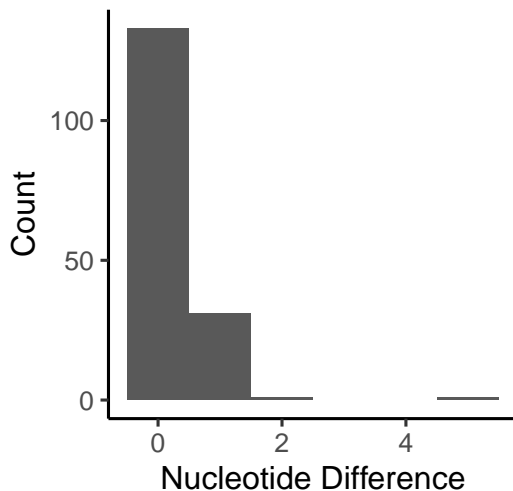
IGHV3-48*03

639 sequences assigned
527 (82.5%) exact matches, in which:
505 unique CDR3
6 unique J



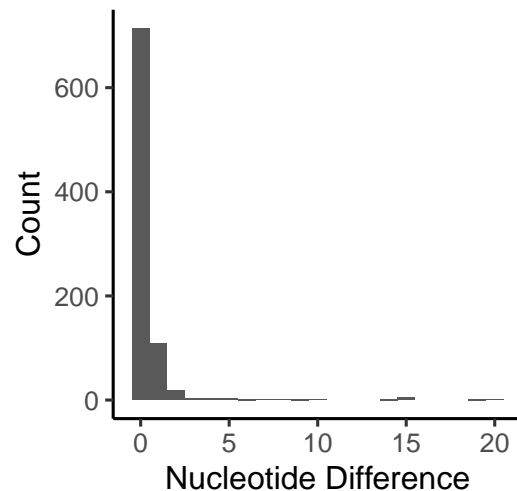
IGHV3-49*04

166 sequences assigned
133 (80.1%) exact matches, in which:
128 unique CDR3
6 unique J



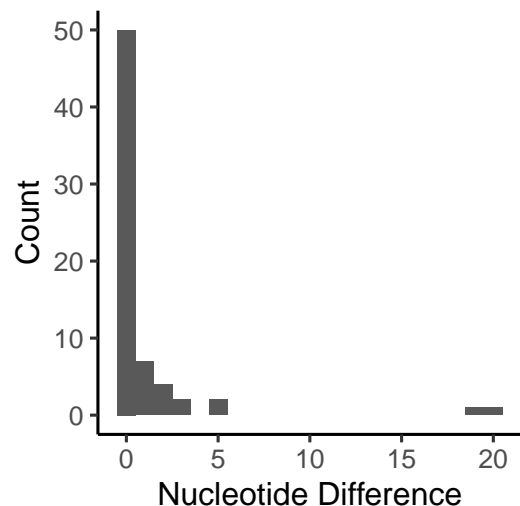
IGHV3-66*01

866 sequences assigned
714 (82.4%) exact matches, in which:
681 unique CDR3
6 unique J



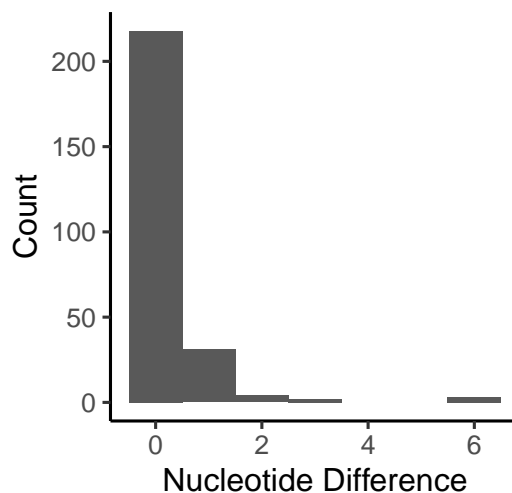
IGHV3-72*01

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



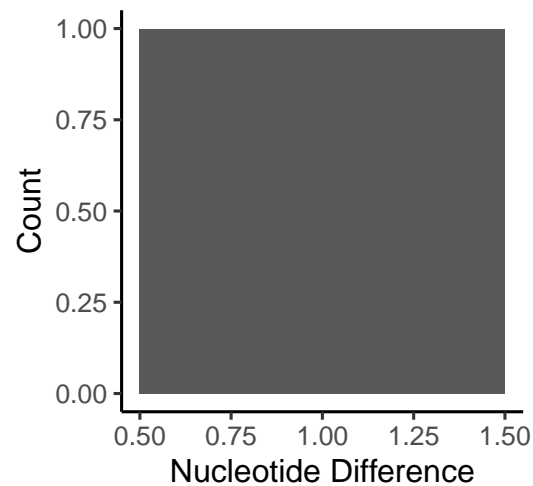
IGHV3-43D*03

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



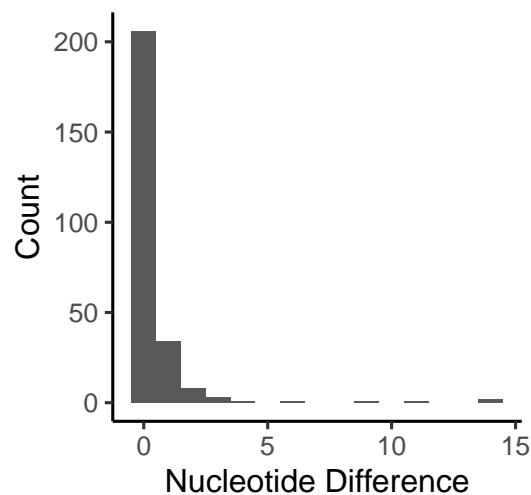
IGHV4-28*04

1 sequences assigned
No exact matches.



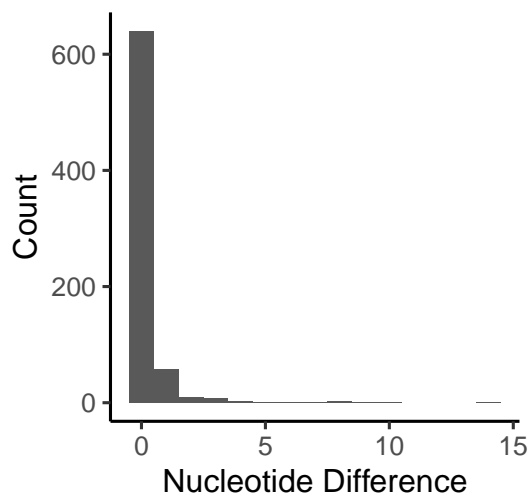
IGHV3-73*01

258 sequences assigned
206 (79.8%) exact matches, in which:
195 unique CDR3
5 unique J



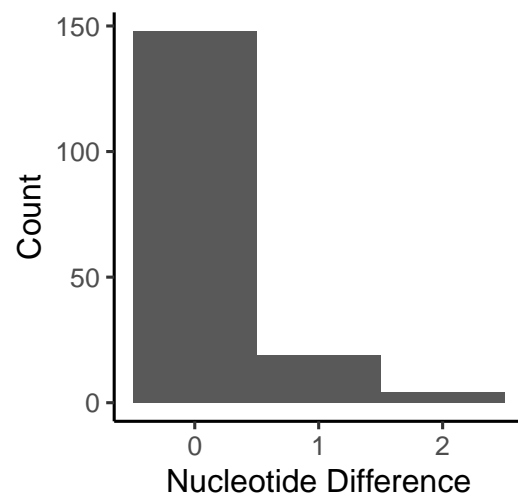
IGHV4-4*02

725 sequences assigned
640 (88.3%) exact matches, in which:
630 unique CDR3
6 unique J



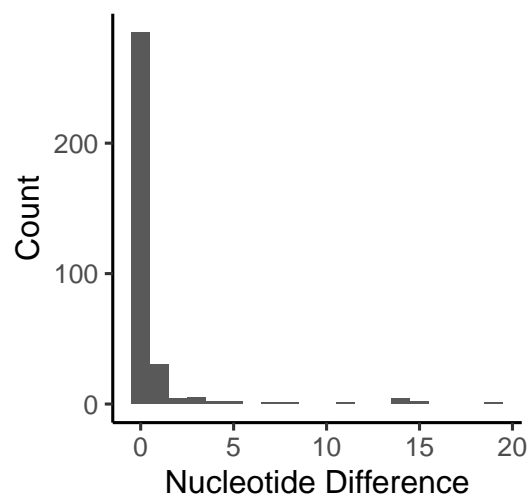
IGHV4-30-4*01

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



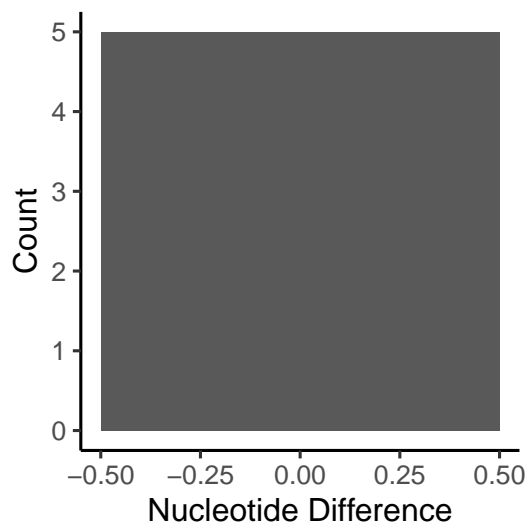
IGHV3-74*01

344 sequences assigned
285 (82.8%) exact matches, in which:
277 unique CDR3
6 unique J



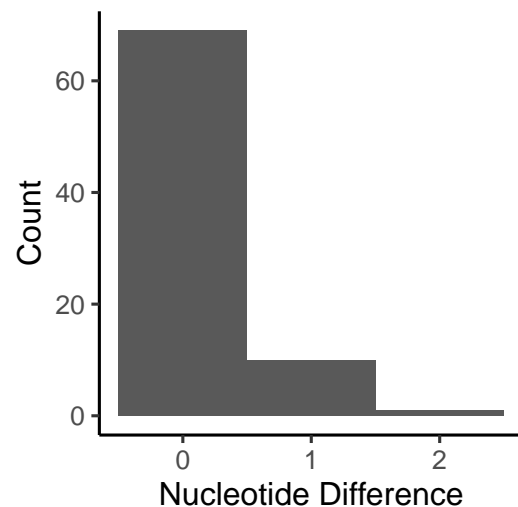
IGHV4-28*01

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



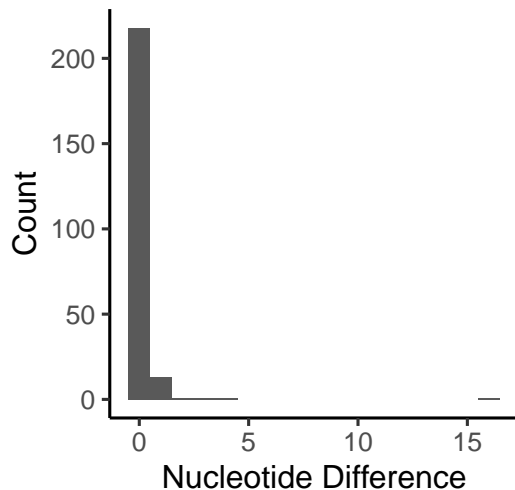
IGHV4-30-2*01

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



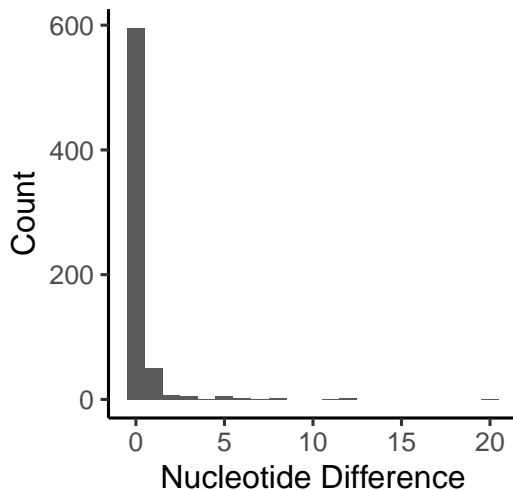
IGHV4–31*03

235 sequences assigned
218 (92.8%) exact matches, in which:
214 unique CDR3
6 unique J



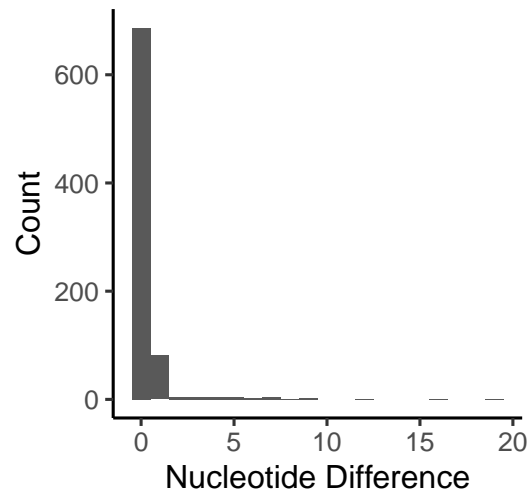
IGHV4–39*01

675 sequences assigned
596 (88.3%) exact matches, in which:
570 unique CDR3
6 unique J



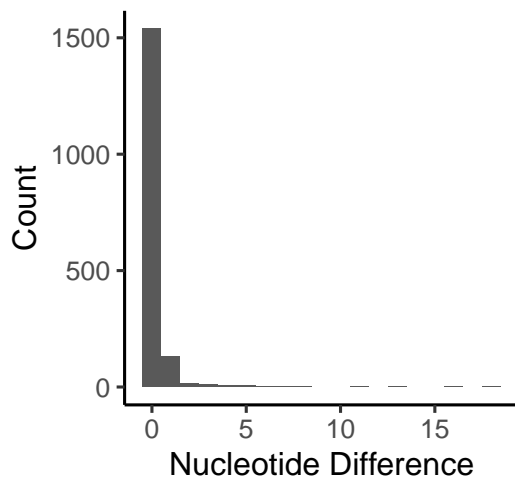
IGHV4–59*08

800 sequences assigned
687 (85.9%) exact matches, in which:
676 unique CDR3
6 unique J



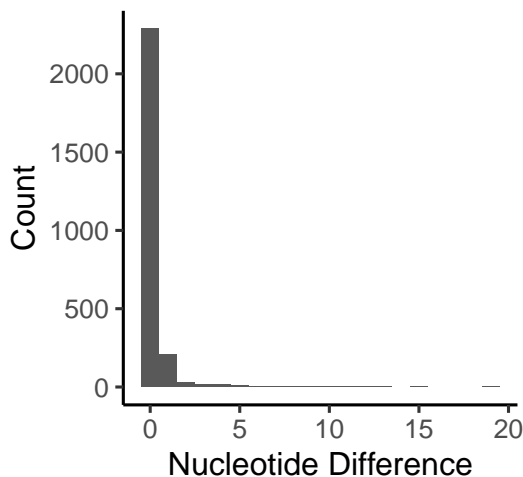
IGHV4–34*01

1724 sequences assigned
1539 (89.3%) exact matches, in which:
1484 unique CDR3
6 unique J



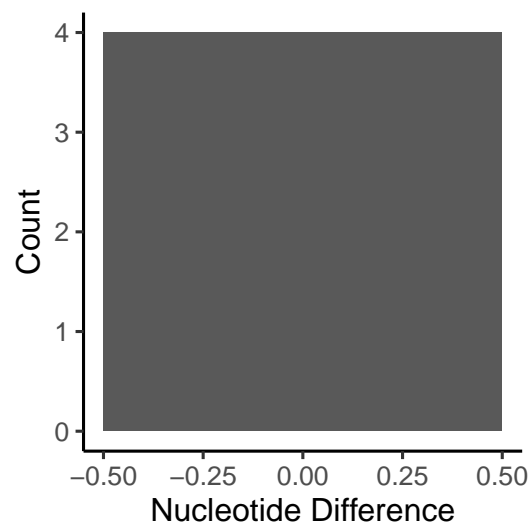
IGHV4–39*07

2598 sequences assigned
2288 (88.1%) exact matches, in which:
2214 unique CDR3
6 unique J



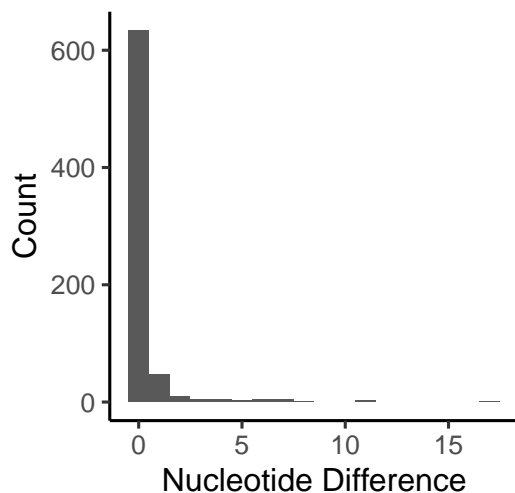
IGHV4–61*07

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



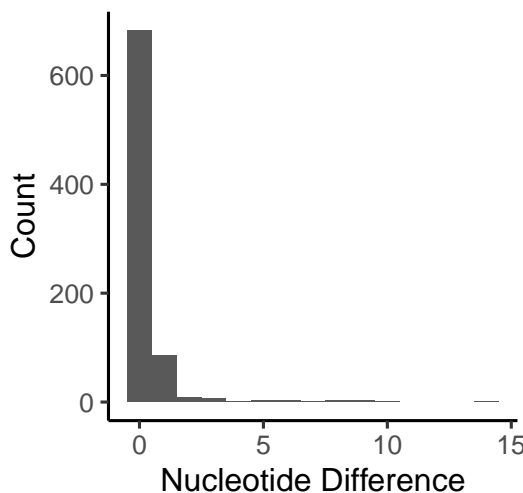
IGHV4–38–2*02

720 sequences assigned
634 (88.1%) exact matches, in which:
608 unique CDR3
6 unique J



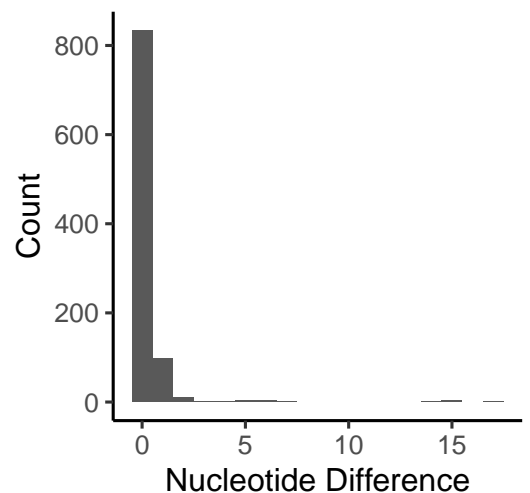
IGHV4–59*01

795 sequences assigned
683 (85.9%) exact matches, in which:
671 unique CDR3
6 unique J



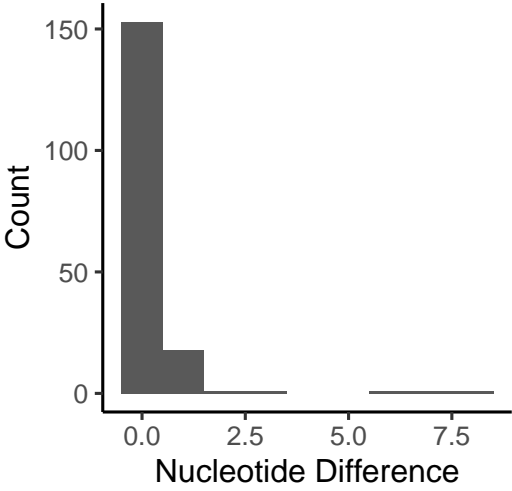
IGHV5–51*01

960 sequences assigned
834 (86.9%) exact matches, in which:
811 unique CDR3
6 unique J



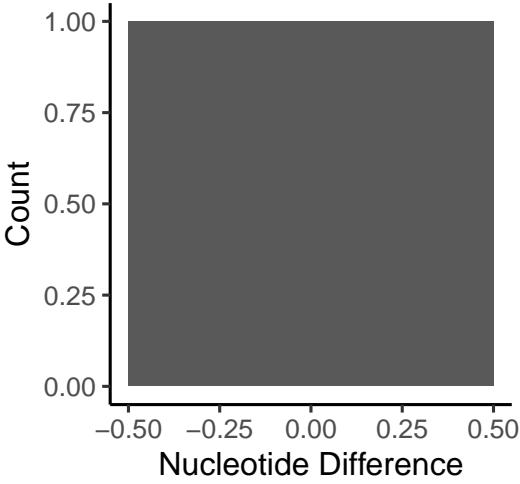
IGHV6-1*01

176 sequences assigned
153 (86.9%) exact matches, in which:
151 unique CDR3
5 unique J



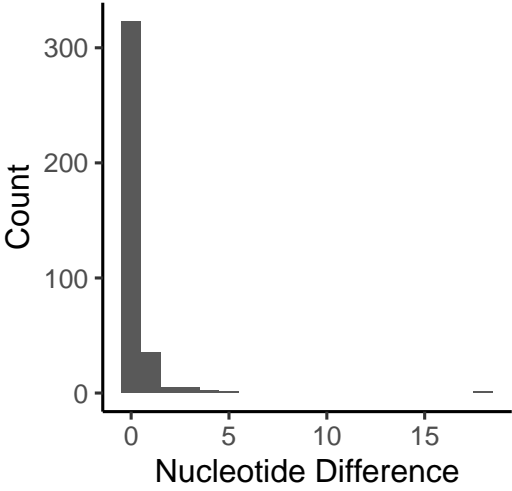
IGHV3/OR16-12*01

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



IGHV7-4-1*02

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





Warning – no inferred sequences found.