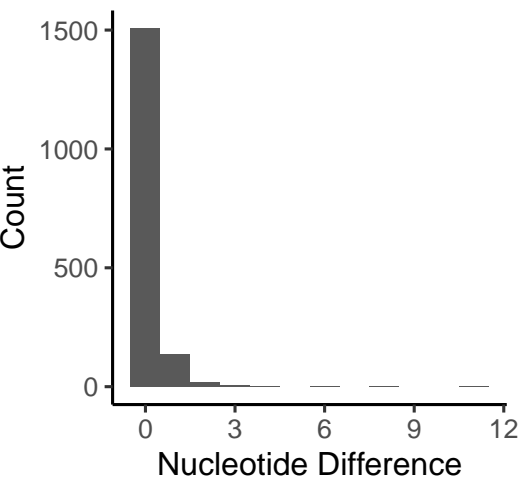


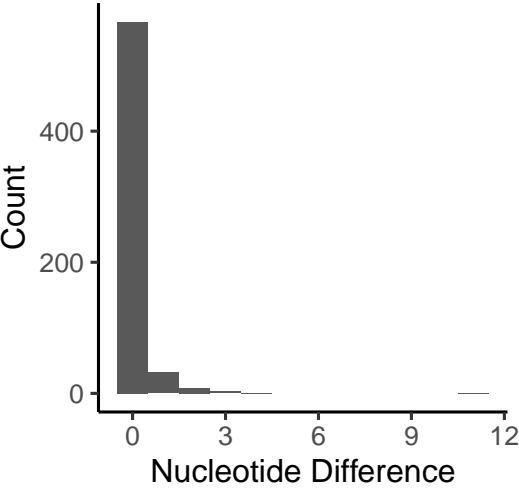
IGHV1-2*02

1671 sequences assigned
1507 (90.2%) exact matches, in which:
1481 unique CDR3
6 unique J



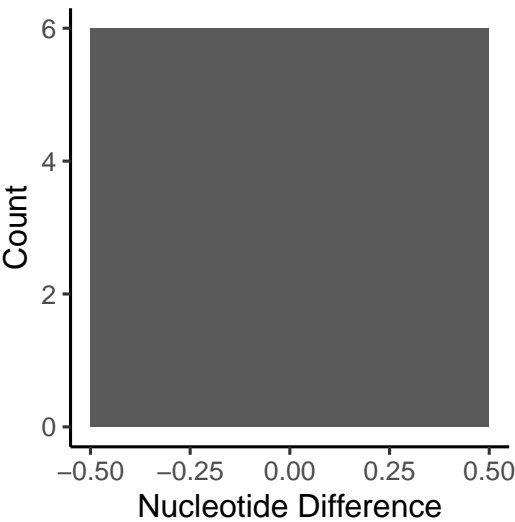
IGHV1-18*01

612 sequences assigned
567 (92.6%) exact matches, in which:
563 unique CDR3
6 unique J



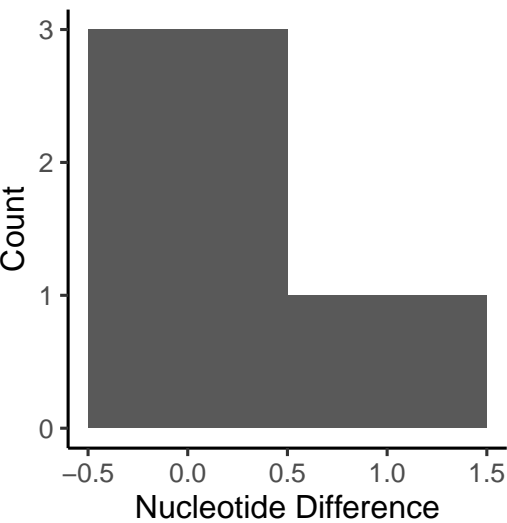
IGHV1-45*02

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



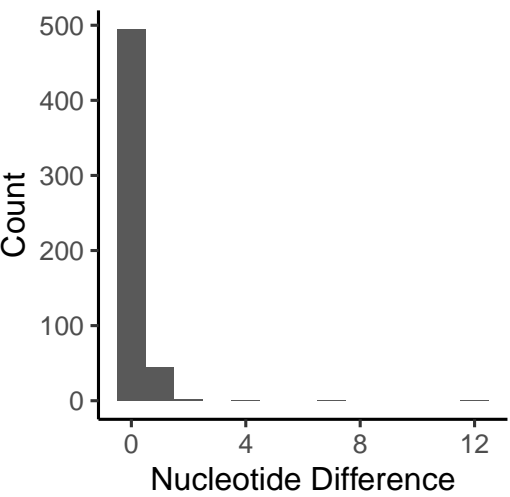
IGHV1-3*02

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



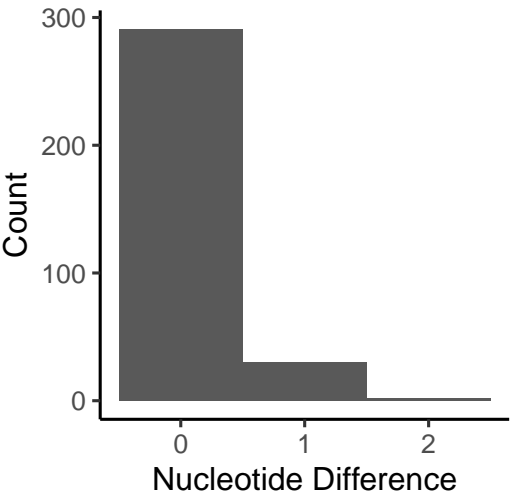
IGHV1-18*04

544 sequences assigned
495 (91%) exact matches, in which:
491 unique CDR3
6 unique J



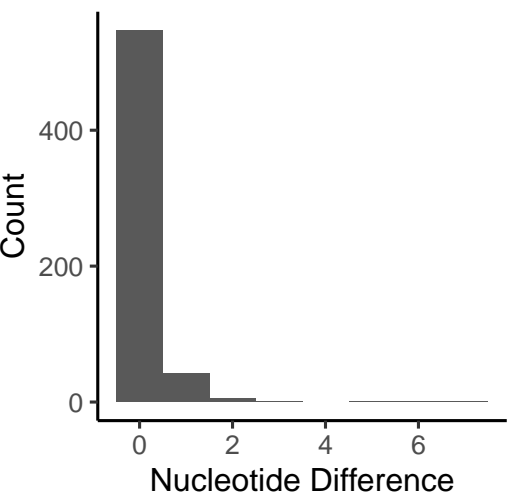
IGHV1-46*01

323 sequences assigned
291 (90.1%) exact matches, in which:
287 unique CDR3
6 unique J



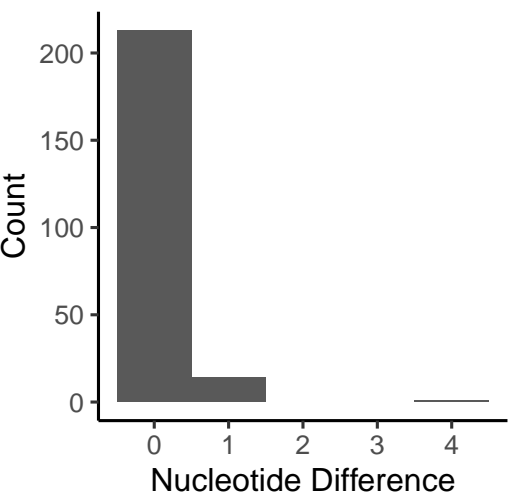
IGHV1-8*01

598 sequences assigned
547 (91.5%) exact matches, in which:
538 unique CDR3
6 unique J



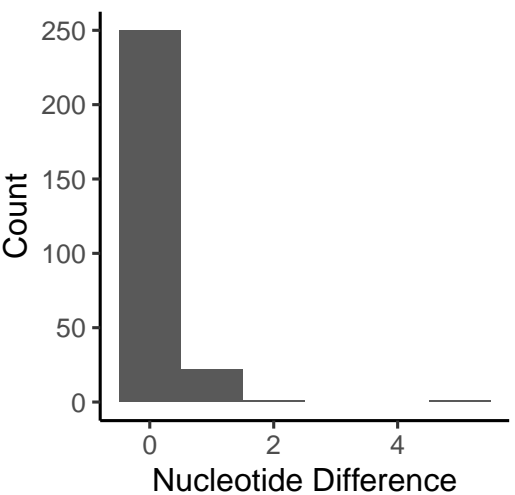
IGHV1-24*01

228 sequences assigned
213 (93.4%) exact matches, in which:
211 unique CDR3
6 unique J



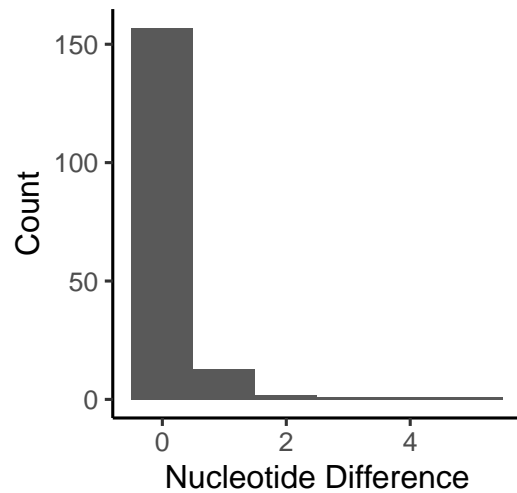
IGHV1-46*03

274 sequences assigned
250 (91.2%) exact matches, in which:
242 unique CDR3
6 unique J



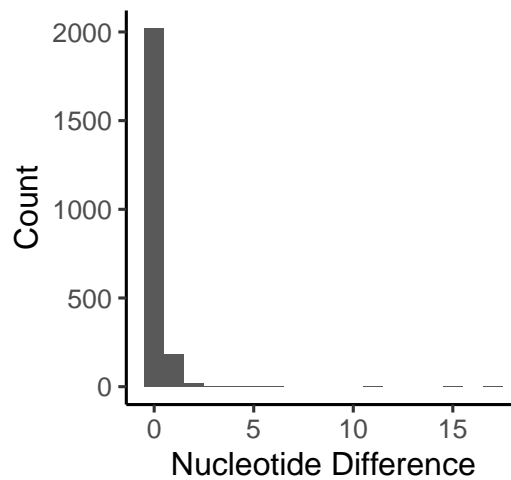
IGHV1–58*01

175 sequences assigned
157 (89.7%) exact matches, in which:
155 unique CDR3
5 unique J



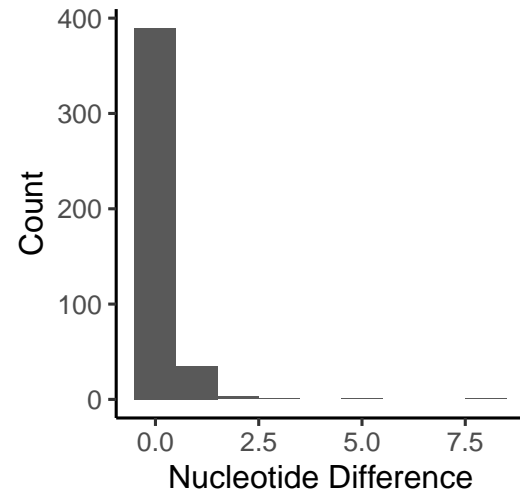
IGHV1–69*06

2237 sequences assigned
2020 (90.3%) exact matches, in which:
1978 unique CDR3
6 unique J



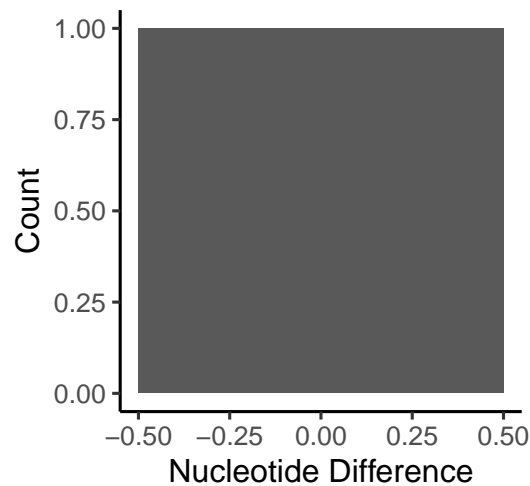
IGHV2–26*01

431 sequences assigned
390 (90.5%) exact matches, in which:
387 unique CDR3
5 unique J



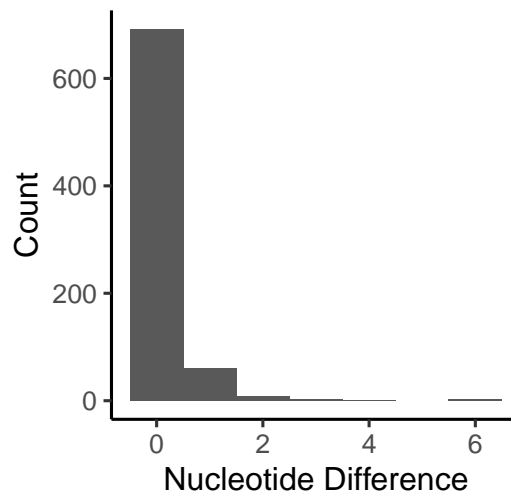
IGHV1–68*02

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



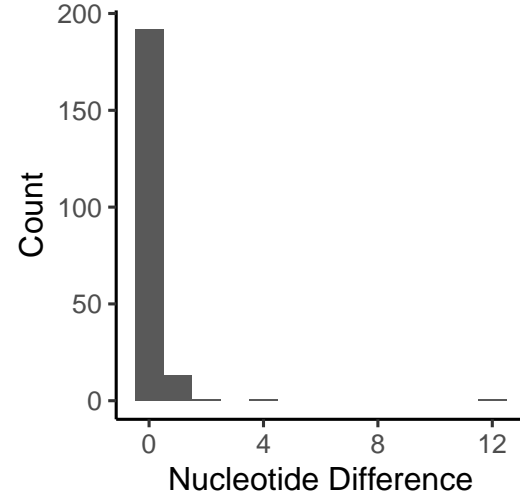
IGHV2–5*01

767 sequences assigned
692 (90.2%) exact matches, in which:
679 unique CDR3
6 unique J



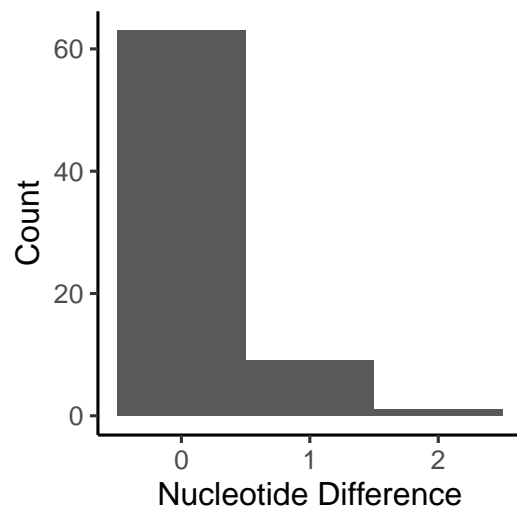
IGHV2–70*01

208 sequences assigned
192 (92.3%) exact matches, in which:
191 unique CDR3
5 unique J



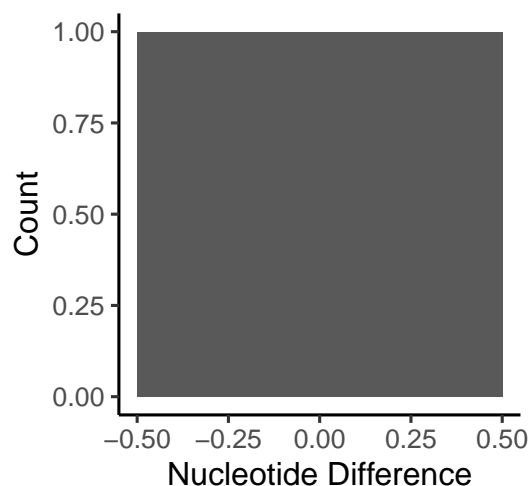
IGHV1–69–2*01

73 sequences assigned
63 (86.3%) exact matches, in which:
63 unique CDR3
6 unique J



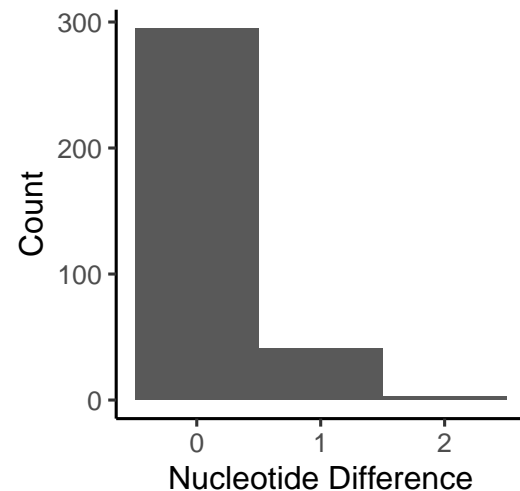
IGHV2–10*01

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



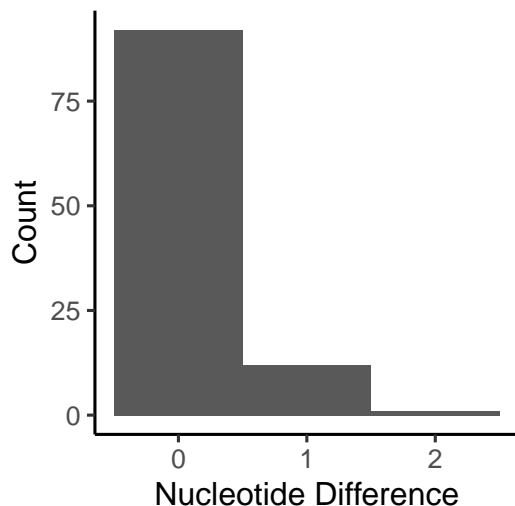
IGHV3–7*01

339 sequences assigned
295 (87%) exact matches, in which:
292 unique CDR3
6 unique J



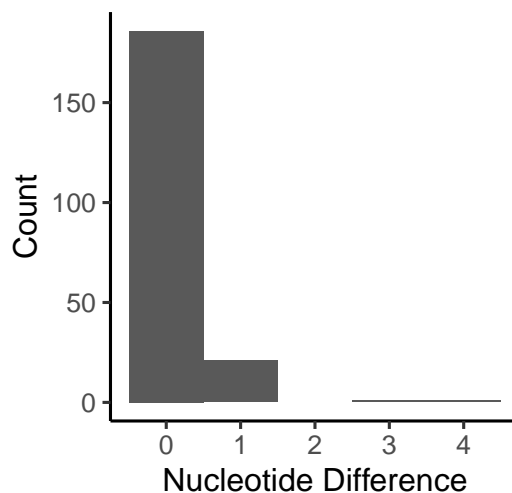
IGHV3-7*05

105 sequences assigned
92 (87.6%) exact matches, in which:
91 unique CDR3
6 unique J



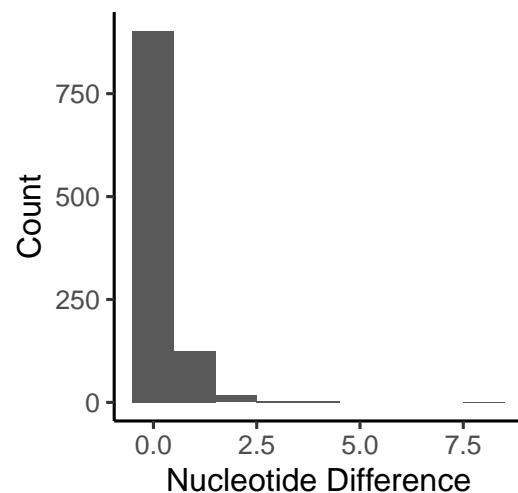
IGHV3-11*06

209 sequences assigned
186 (89%) exact matches, in which:
186 unique CDR3
6 unique J



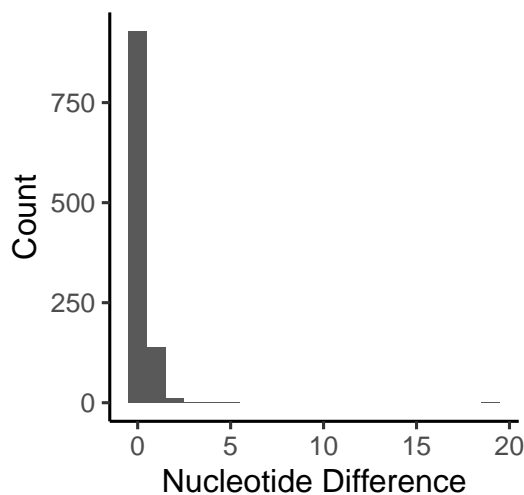
IGHV3-15*01

1052 sequences assigned
903 (85.8%) exact matches, in which:
886 unique CDR3
6 unique J



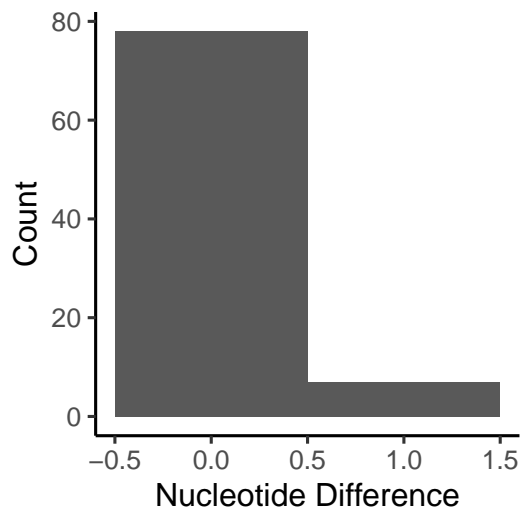
IGHV3-9*01

1085 sequences assigned
929 (85.6%) exact matches, in which:
902 unique CDR3
6 unique J



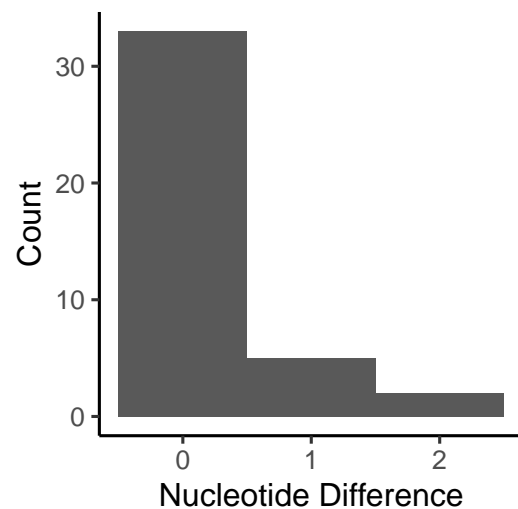
IGHV3-13*01

85 sequences assigned
78 (91.8%) exact matches, in which:
76 unique CDR3
4 unique J



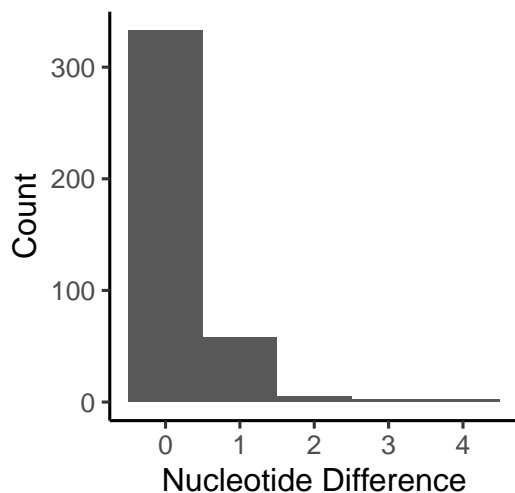
IGHV3-20*01

40 sequences assigned
33 (82.5%) exact matches, in which:
33 unique CDR3
5 unique J



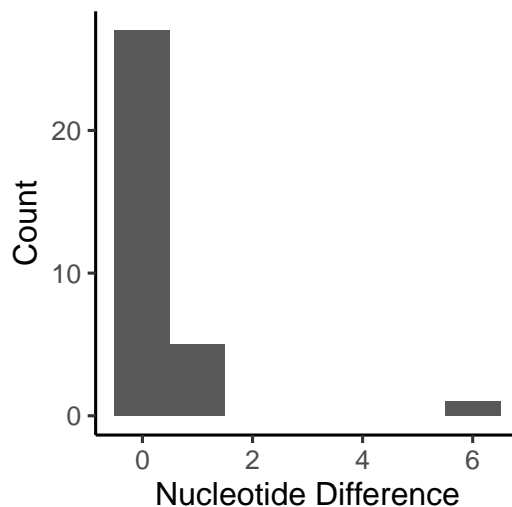
IGHV3-11*01

400 sequences assigned
333 (83.2%) exact matches, in which:
331 unique CDR3
6 unique J



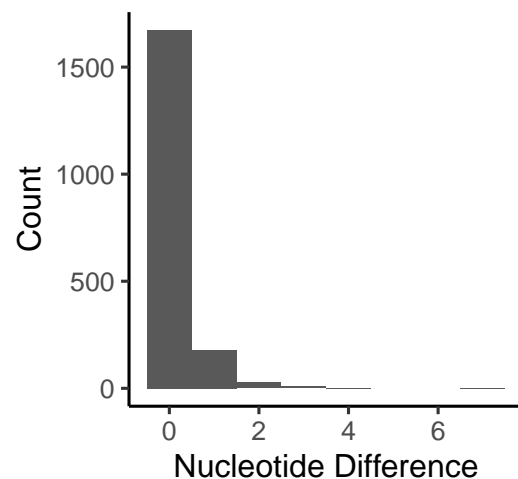
IGHV3-13*05

33 sequences assigned
27 (81.8%) exact matches, in which:
27 unique CDR3
4 unique J



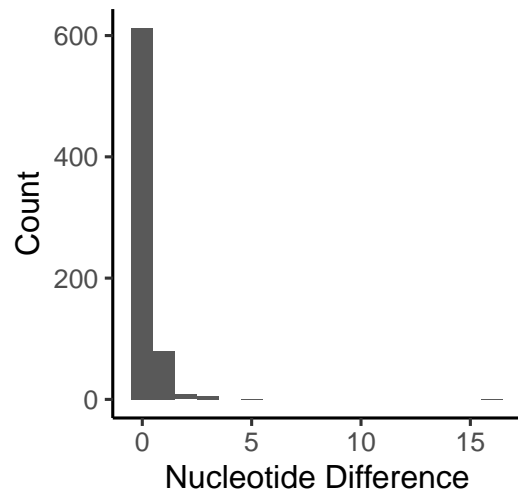
IGHV3-21*01

1893 sequences assigned
1673 (88.4%) exact matches, in which:
1638 unique CDR3
6 unique J



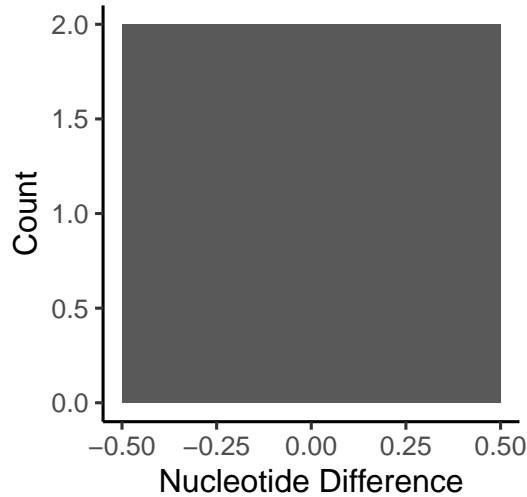
IGHV3–30*01

709 sequences assigned
613 (86.5%) exact matches, in which:
602 unique CDR3
6 unique J



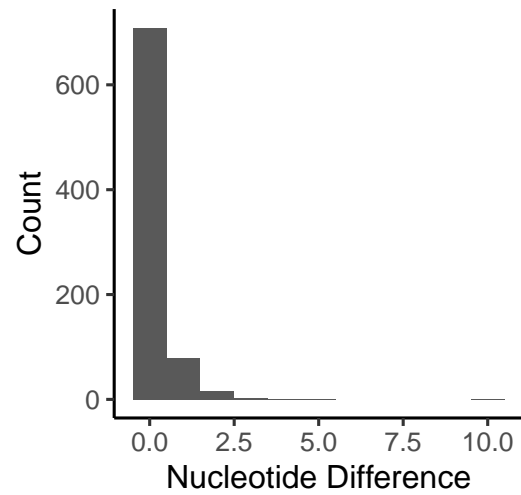
IGHV3–35*01

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



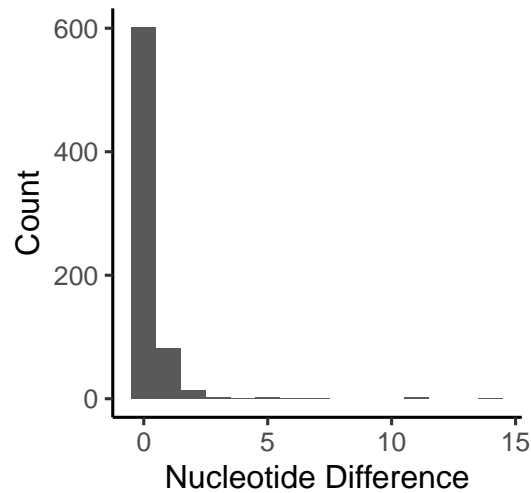
IGHV3–48*03

809 sequences assigned
709 (87.6%) exact matches, in which:
695 unique CDR3
6 unique J



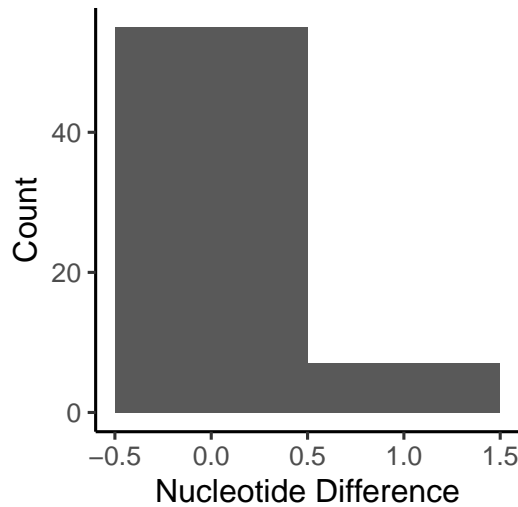
IGHV3–30–3*01

708 sequences assigned
602 (85%) exact matches, in which:
591 unique CDR3
6 unique J



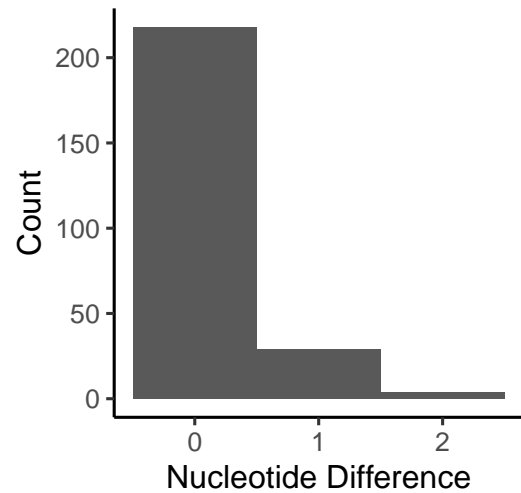
IGHV3–43*01

62 sequences assigned
55 (88.7%) exact matches, in which:
55 unique CDR3
6 unique J



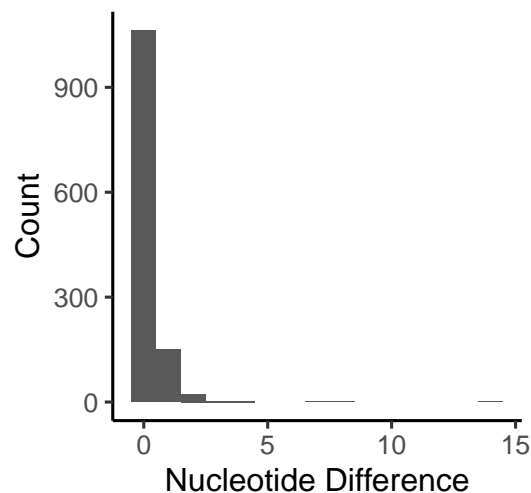
IGHV3–49*04

251 sequences assigned
218 (86.9%) exact matches, in which:
217 unique CDR3
6 unique J



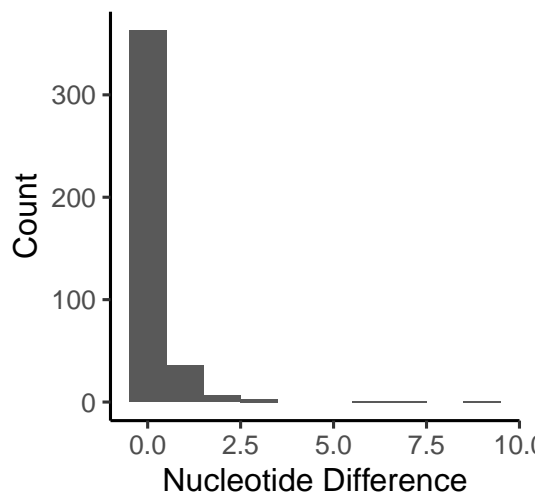
IGHV3–33*01

1245 sequences assigned
1063 (85.4%) exact matches, in which:
1043 unique CDR3
6 unique J



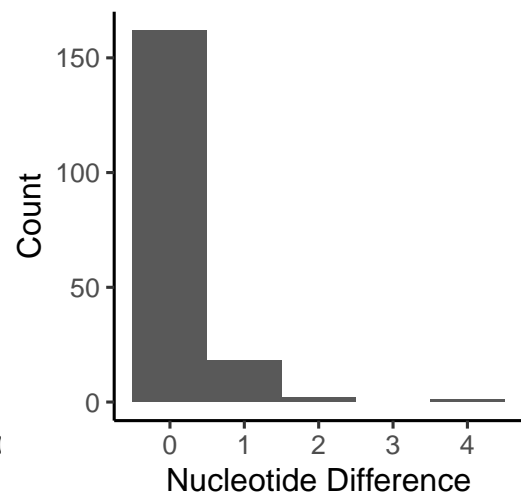
IGHV3–48*02

411 sequences assigned
363 (88.3%) exact matches, in which:
356 unique CDR3
6 unique J



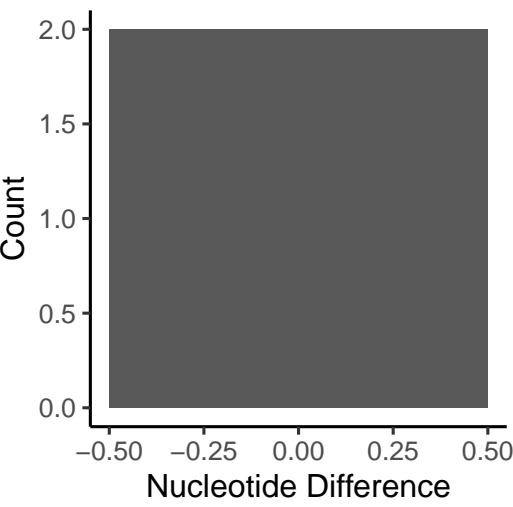
IGHV3–49*05

183 sequences assigned
162 (88.5%) exact matches, in which:
162 unique CDR3
6 unique J



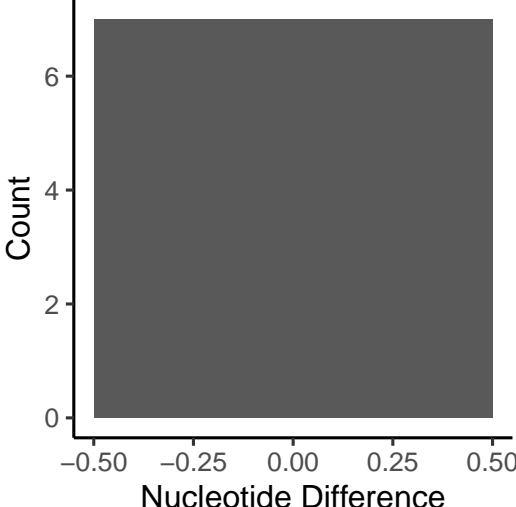
IGHV3-52*01

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



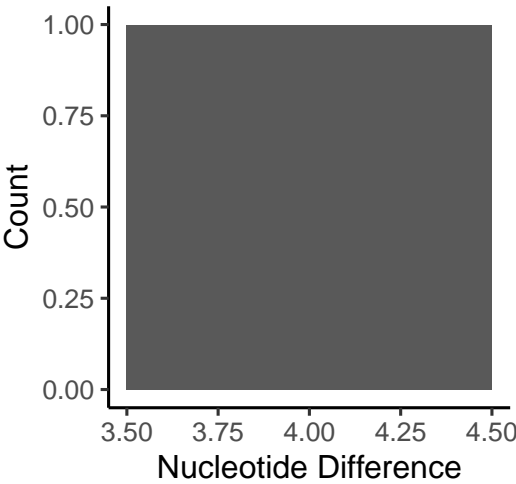
IGHV3-64*02

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
4 unique J



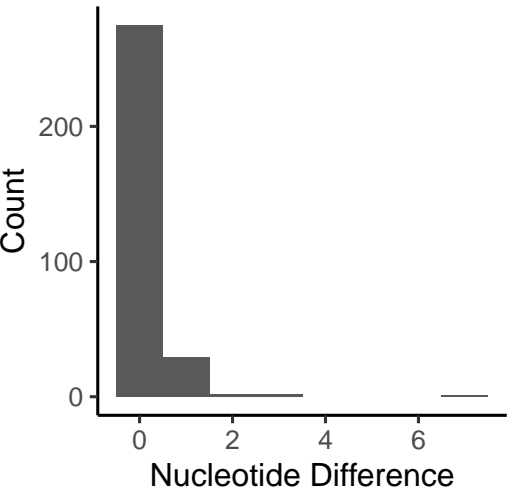
IGHV3-66*04

1 sequences assigned
No exact matches.



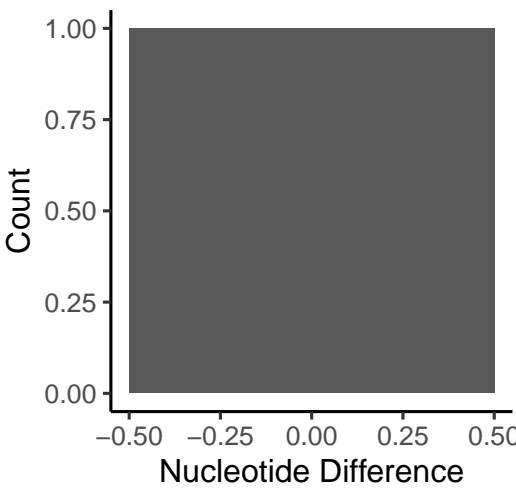
IGHV3-53*01

309 sequences assigned
275 (89%) exact matches, in which:
269 unique CDR3
6 unique J



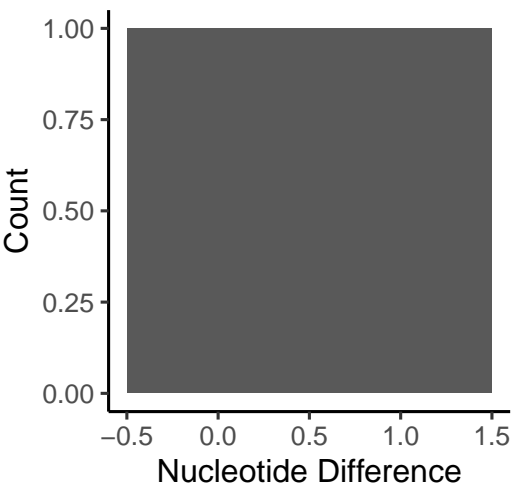
IGHV3-64*04

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



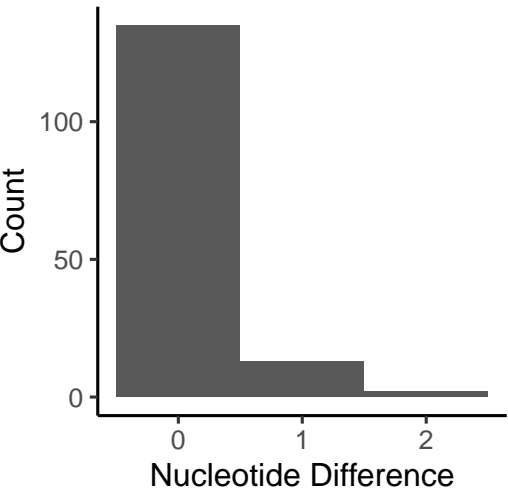
IGHV3-69-1*01

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



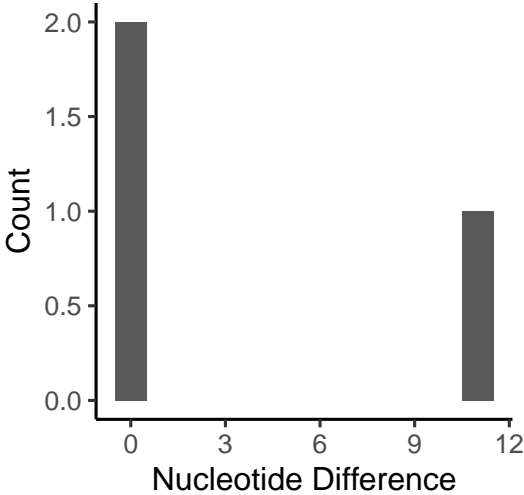
IGHV3-53*02

150 sequences assigned
135 (90%) exact matches, in which:
134 unique CDR3
6 unique J



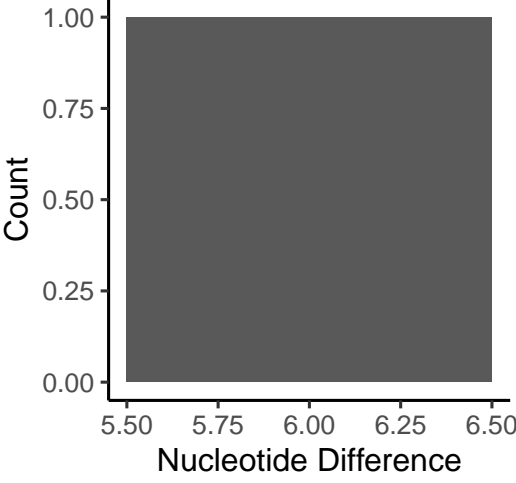
IGHV3-66*03

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



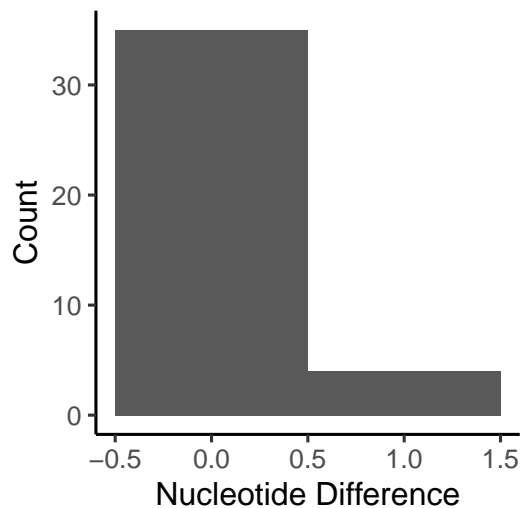
IGHV3-71*03

1 sequences assigned
No exact matches.



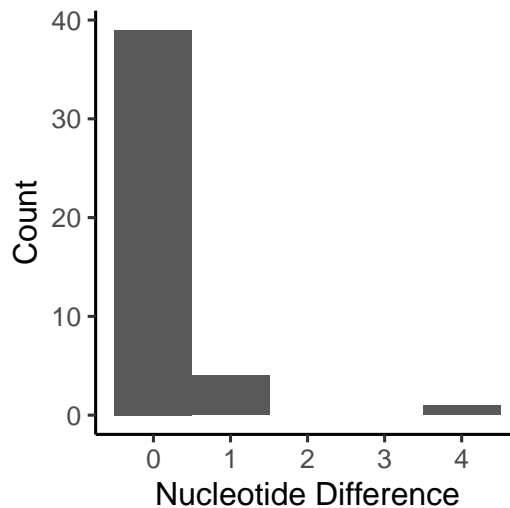
IGHV3-72*01

39 sequences assigned
35 (89.7%) exact matches, in which:
34 unique CDR3
5 unique J



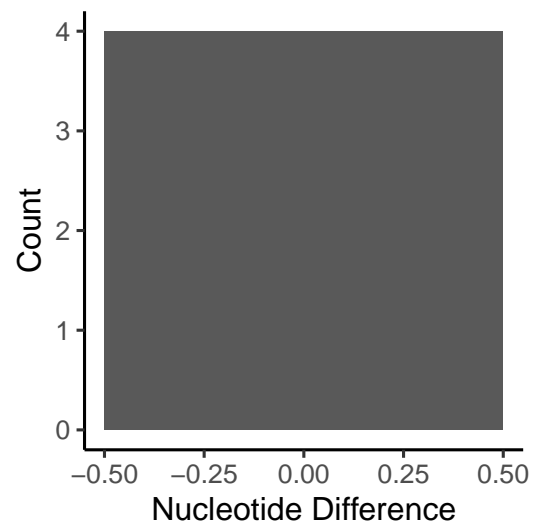
IGHV3-43D*04

44 sequences assigned
39 (88.6%) exact matches, in which:
39 unique CDR3
4 unique J



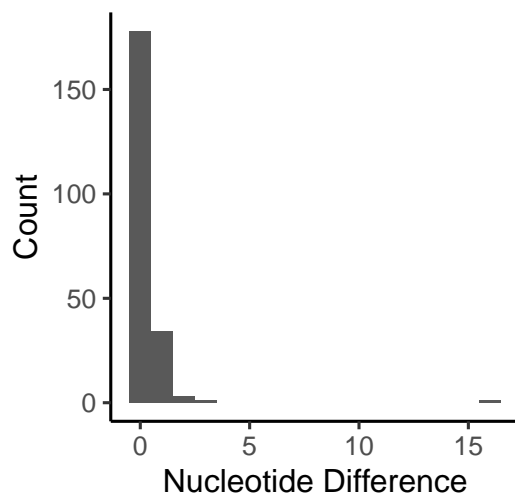
IGHV4-28*01

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



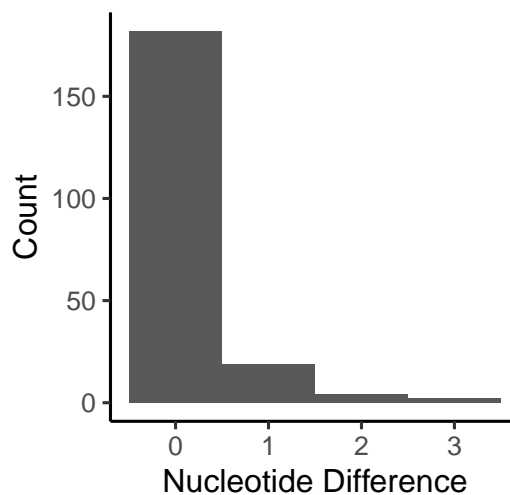
IGHV3-73*02

217 sequences assigned
178 (82%) exact matches, in which:
177 unique CDR3
6 unique J



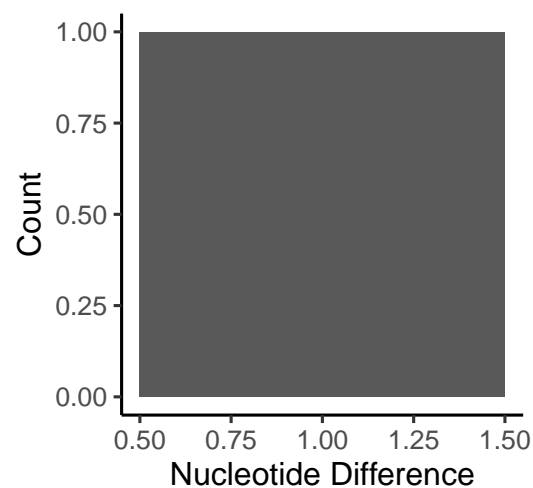
IGHV3-64D*08

207 sequences assigned
182 (87.9%) exact matches, in which:
177 unique CDR3
6 unique J



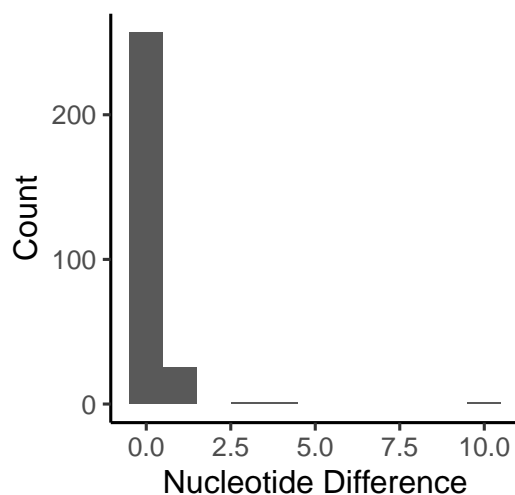
IGHV4-28*02

1 sequences assigned
No exact matches.



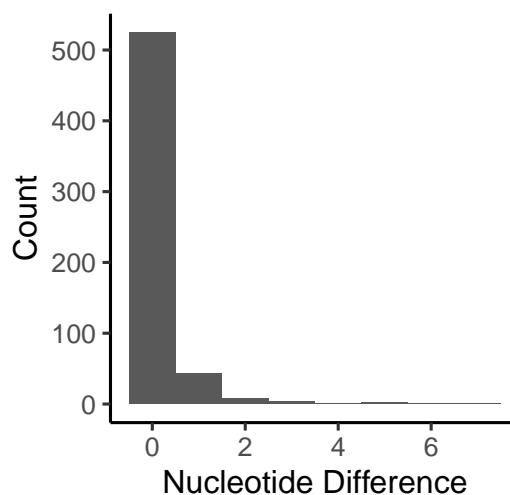
IGHV3-74*01

285 sequences assigned
257 (90.2%) exact matches, in which:
255 unique CDR3
6 unique J



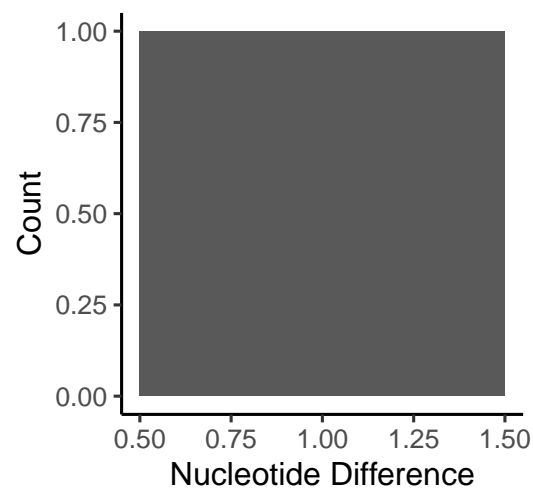
IGHV4-4*07

588 sequences assigned
525 (89.3%) exact matches, in which:
519 unique CDR3
6 unique J



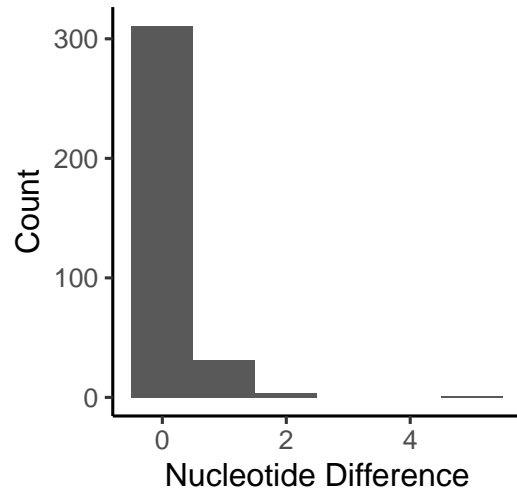
IGHV4-28*04

1 sequences assigned
No exact matches.



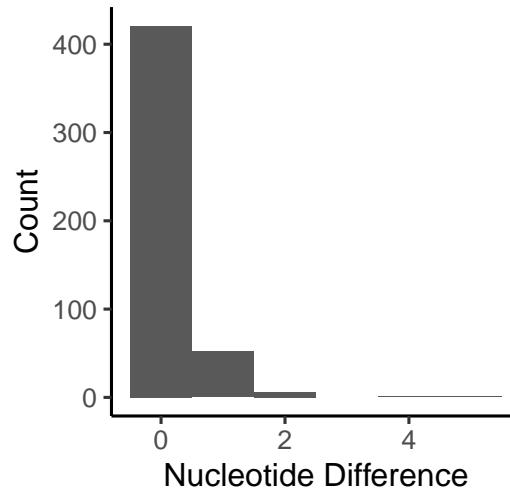
IGHV4-30-4*01

347 sequences assigned
311 (89.6%) exact matches, in which:
305 unique CDR3
6 unique J



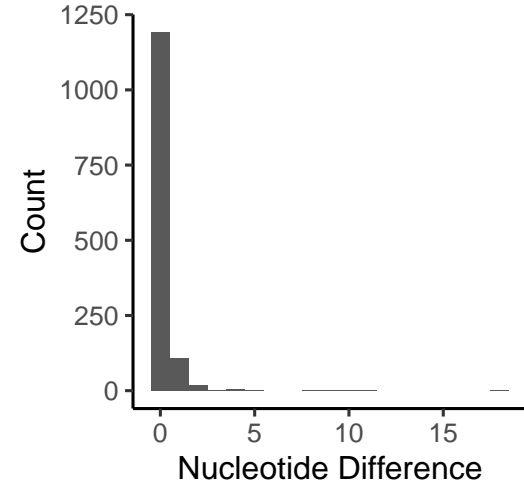
IGHV4-31*03

481 sequences assigned
421 (87.5%) exact matches, in which:
416 unique CDR3
6 unique J



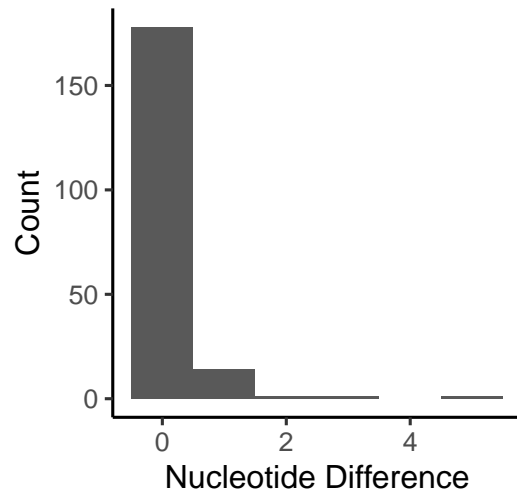
IGHV4-39*01

1331 sequences assigned
1191 (89.5%) exact matches, in which:
1170 unique CDR3
6 unique J



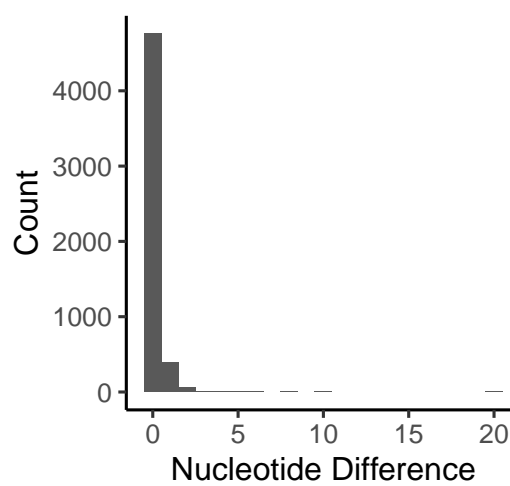
IGHV4-30-2*01

195 sequences assigned
178 (91.3%) exact matches, in which:
169 unique CDR3
6 unique J



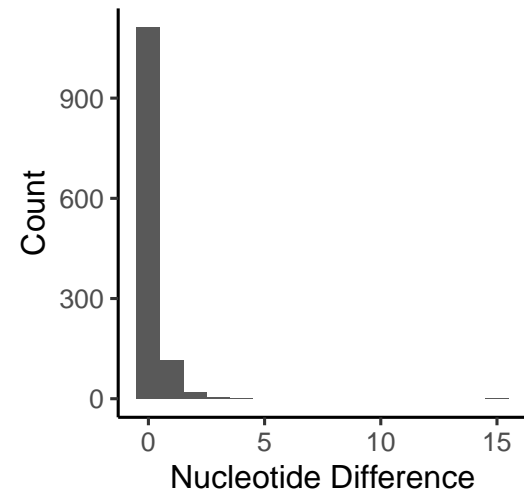
IGHV4-34*01

5246 sequences assigned
4758 (90.7%) exact matches, in which:
4633 unique CDR3
6 unique J



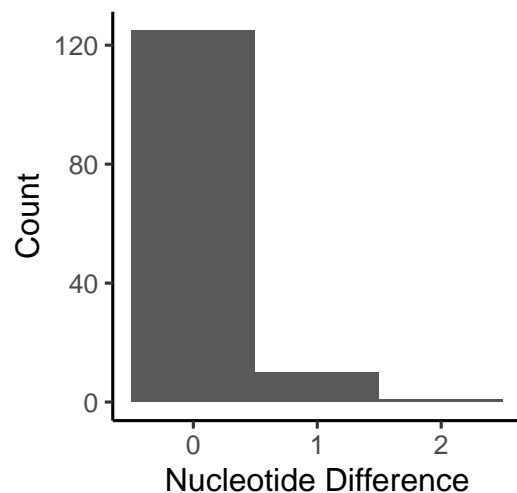
IGHV4-59*01

1254 sequences assigned
1113 (88.8%) exact matches, in which:
1105 unique CDR3
6 unique J



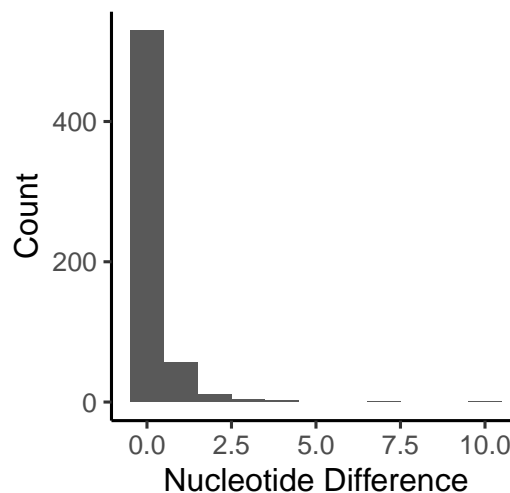
IGHV4-31*01

136 sequences assigned
125 (91.9%) exact matches, in which:
124 unique CDR3
6 unique J



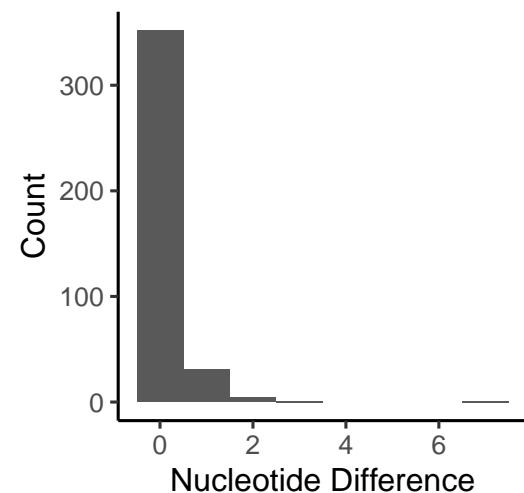
IGHV4-38-2*02_A70G

606 sequences assigned
530 (87.5%) exact matches, in which:
514 unique CDR3
6 unique J



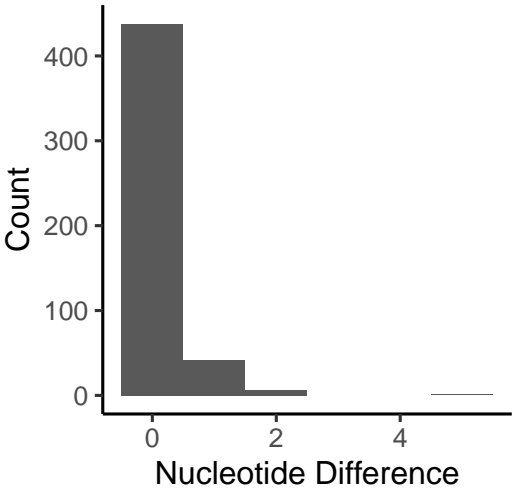
IGHV4-61*01

390 sequences assigned
352 (90.3%) exact matches, in which:
345 unique CDR3
6 unique J



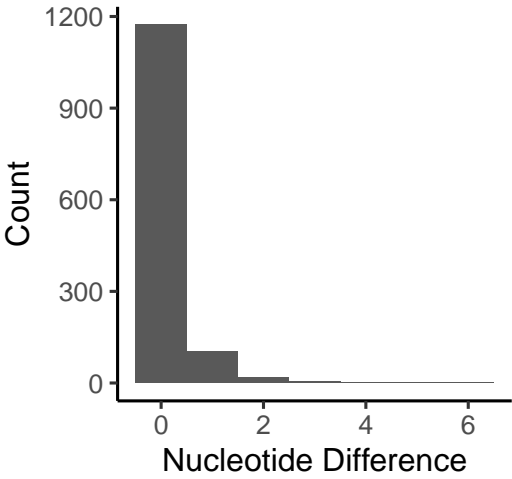
IGHV5-10-1*03

487 sequences assigned
438 (89.9%) exact matches, in which:
427 unique CDR3
6 unique J



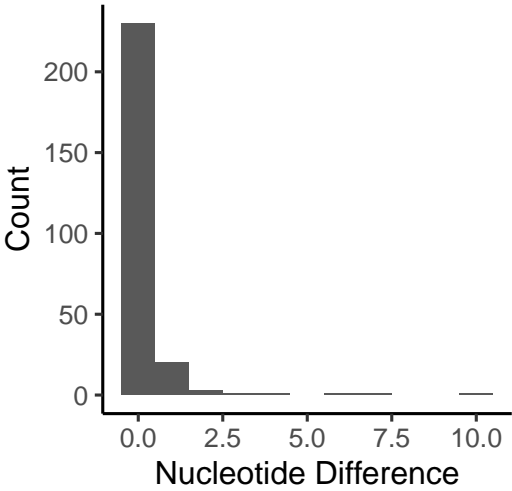
IGHV5-51*01

1306 sequences assigned
1173 (89.8%) exact matches, in which:
1155 unique CDR3
6 unique J



IGHV6-1*01

258 sequences assigned
230 (89.1%) exact matches, in which:
222 unique CDR3
5 unique J





Warning – no inferred sequences found.