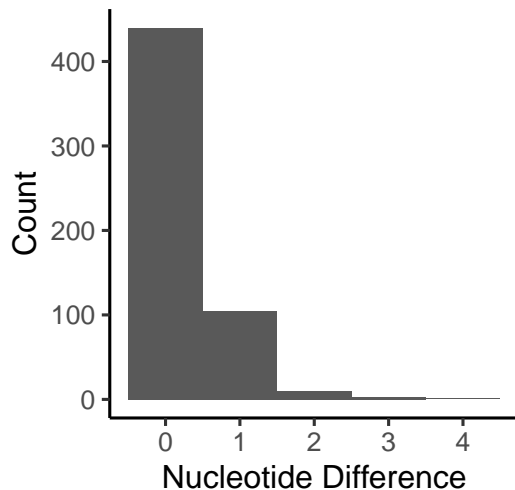


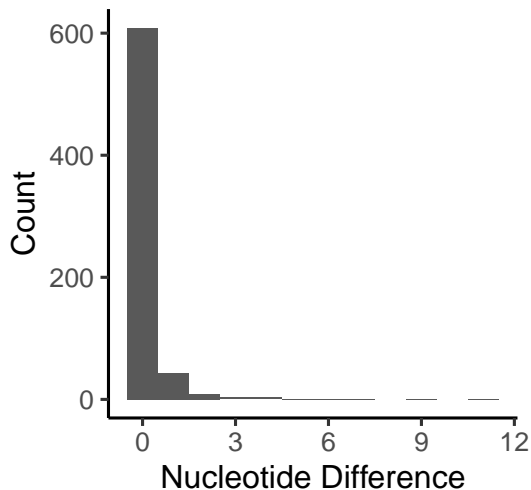
IGHV1-2*02

559 sequences assigned
440 (78.7%) exact matches, in which:
428 unique CDR3
6 unique J



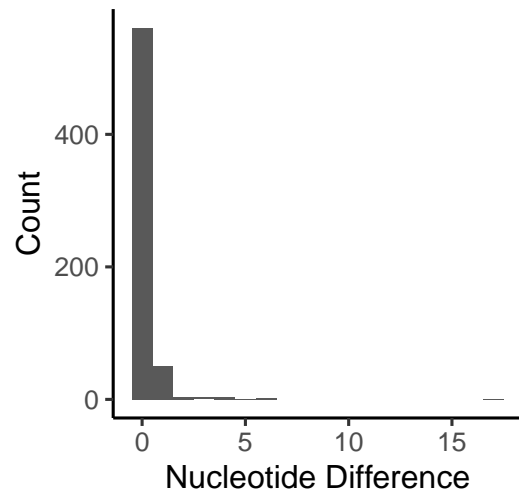
IGHV1-18*04

673 sequences assigned
609 (90.5%) exact matches, in which:
600 unique CDR3
7 unique J



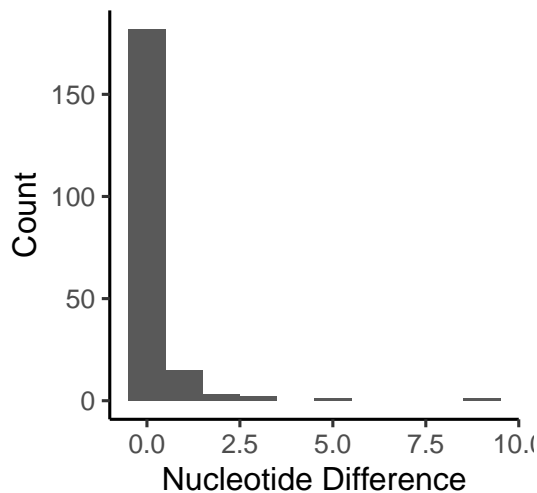
IGHV1-46*01

626 sequences assigned
561 (89.6%) exact matches, in which:
548 unique CDR3
7 unique J



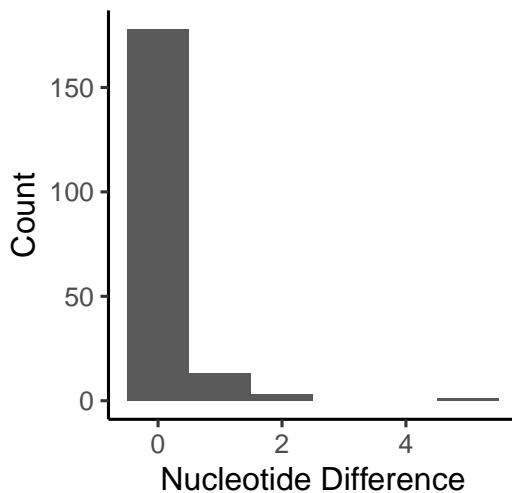
IGHV1-3*01

205 sequences assigned
182 (88.8%) exact matches, in which:
179 unique CDR3
6 unique J



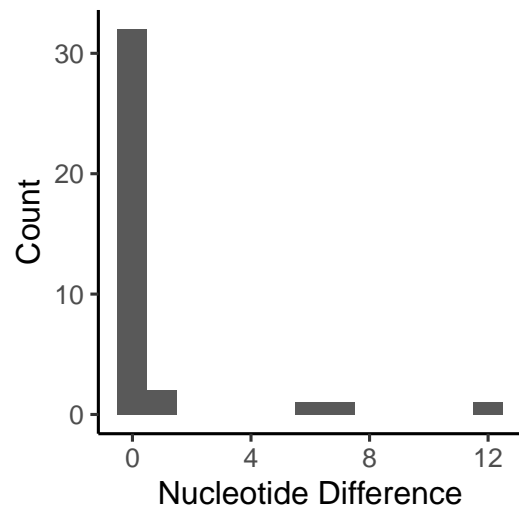
IGHV1-24*01

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



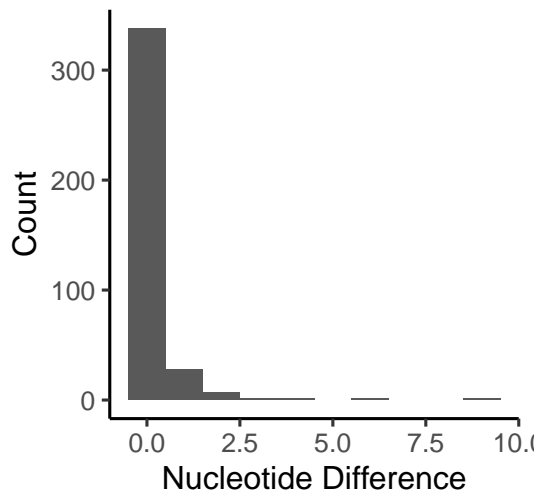
IGHV1-58*01

39 sequences assigned
32 (82.1%) exact matches, in which:
31 unique CDR3
6 unique J



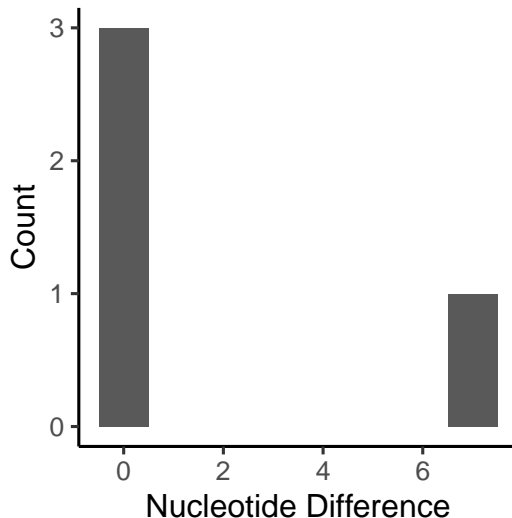
IGHV1-8*01

379 sequences assigned
338 (89.2%) exact matches, in which:
330 unique CDR3
7 unique J



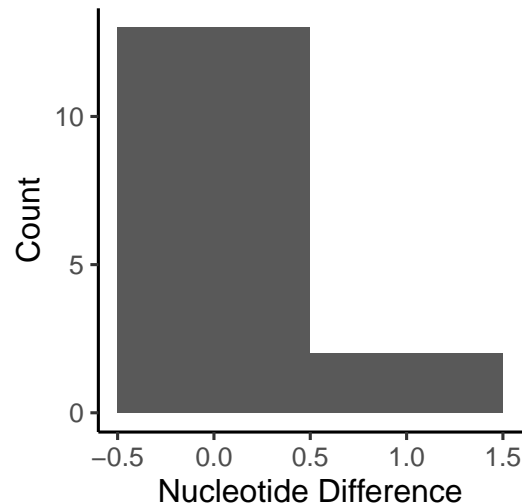
IGHV1-45*02

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



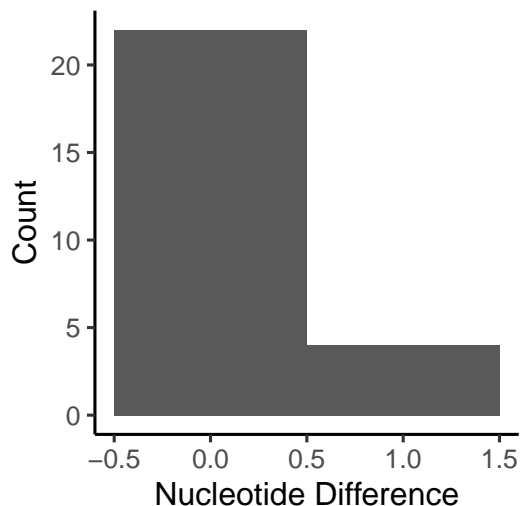
IGHV1-58*02

15 sequences assigned
13 (86.7%) exact matches, in which:
13 unique CDR3
4 unique J



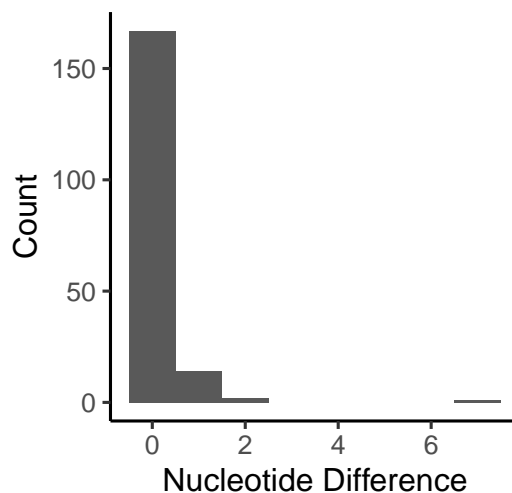
IGHV1-69-2*01

26 sequences assigned
22 (84.6%) exact matches, in which:
20 unique CDR3
4 unique J



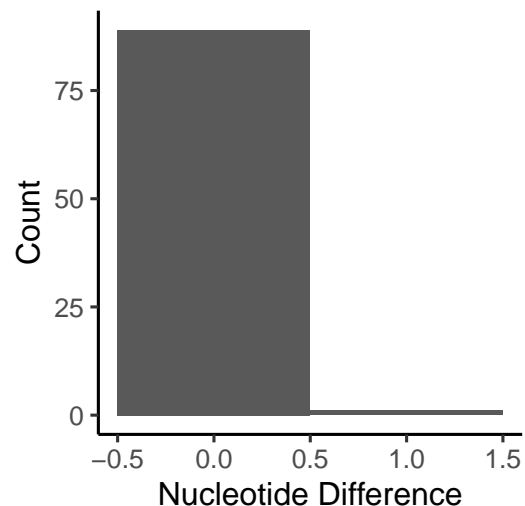
IGHV2-5*01

186 sequences assigned
167 (89.8%) exact matches, in which:
162 unique CDR3
6 unique J



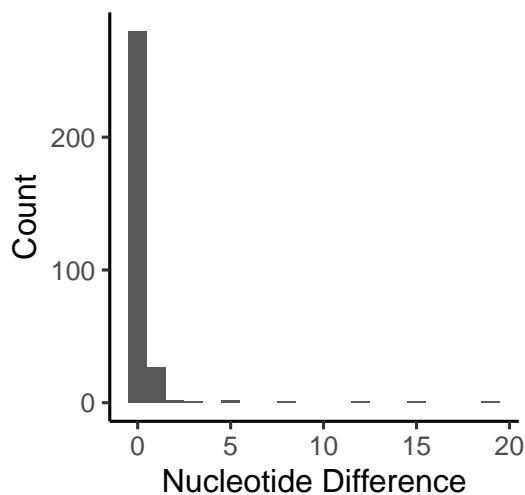
IGHV2-70*15

90 sequences assigned
89 (98.9%) exact matches, in which:
89 unique CDR3
6 unique J



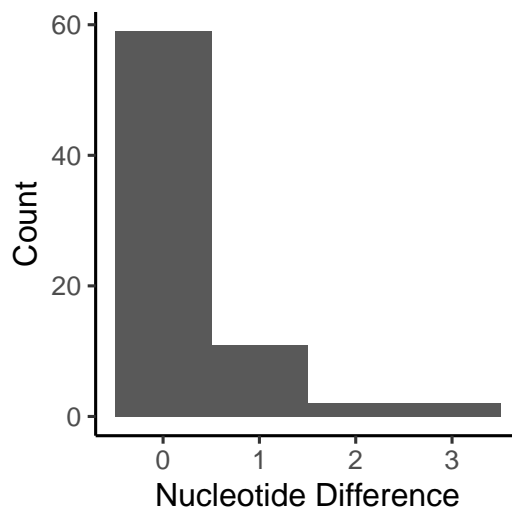
IGHV1-69*04

316 sequences assigned
280 (88.6%) exact matches, in which:
271 unique CDR3
6 unique J



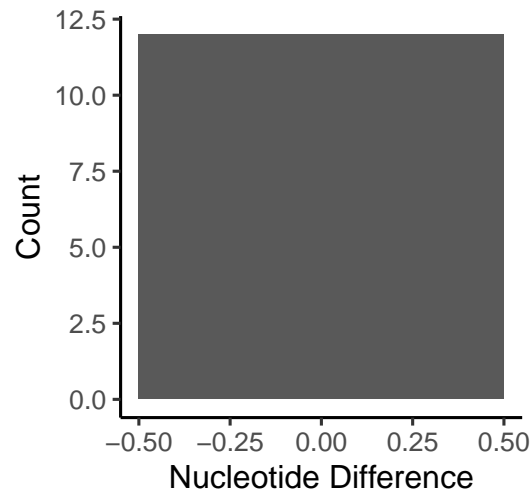
IGHV2-5*02

75 sequences assigned
59 (78.7%) exact matches, in which:
59 unique CDR3
4 unique J



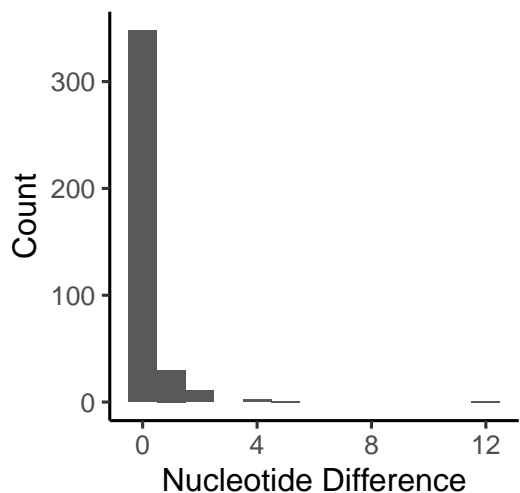
IGHV2-70D*04

12 sequences assigned
12 (100%) exact matches, in which:
11 unique CDR3
3 unique J



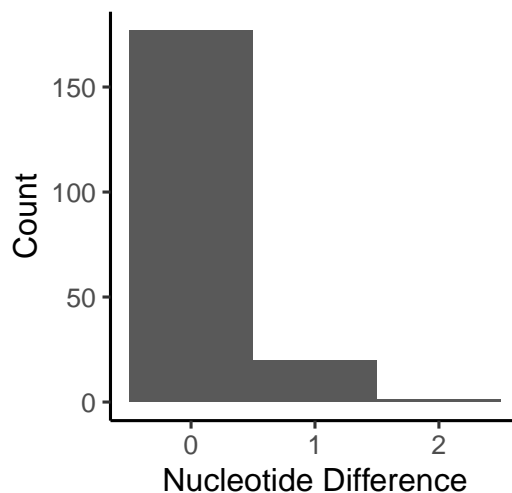
IGHV1-69*06

393 sequences assigned
348 (88.5%) exact matches, in which:
342 unique CDR3
6 unique J



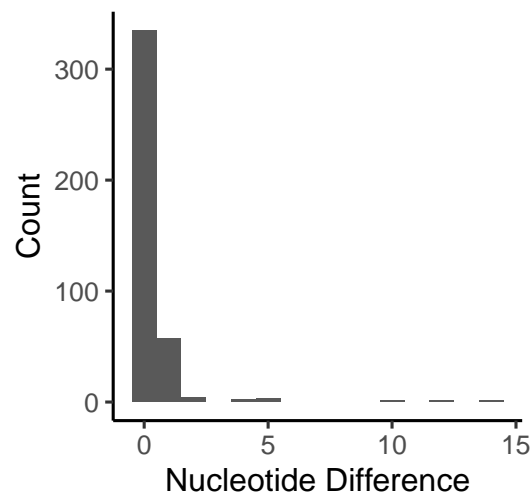
IGHV2-26*01

198 sequences assigned
177 (89.4%) exact matches, in which:
176 unique CDR3
7 unique J



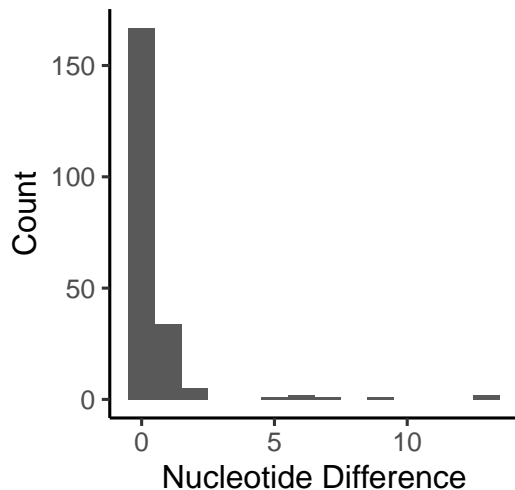
IGHV3-7*01

405 sequences assigned
335 (82.7%) exact matches, in which:
325 unique CDR3
7 unique J



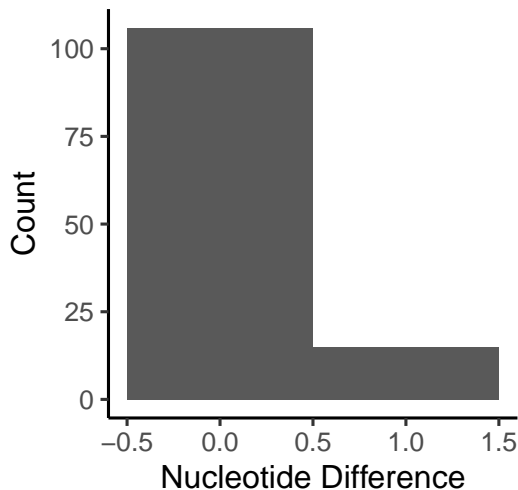
IGHV3-7*03

216 sequences assigned
167 (77.3%) exact matches, in which:
163 unique CDR3
6 unique J



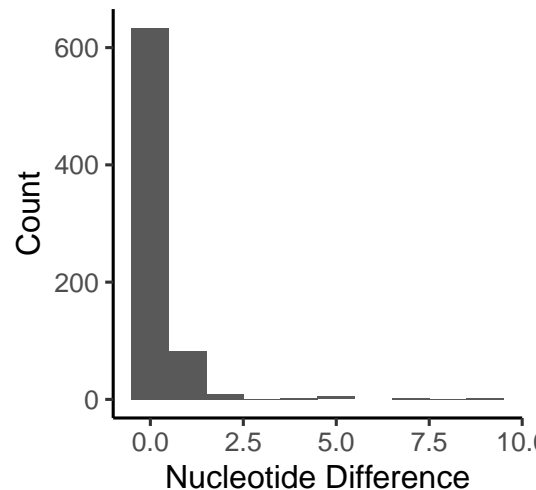
IGHV3-11*06

121 sequences assigned
106 (87.6%) exact matches, in which:
98 unique CDR3
5 unique J



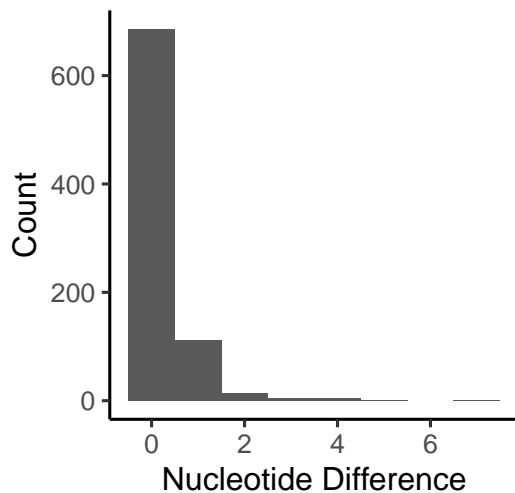
IGHV3-15*01

741 sequences assigned
634 (85.6%) exact matches, in which:
619 unique CDR3
7 unique J



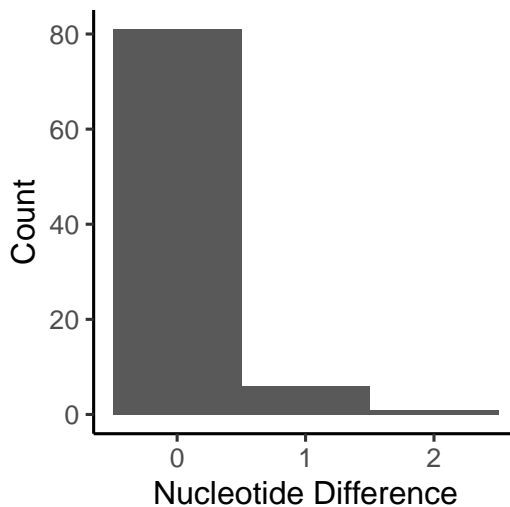
IGHV3-9*01

821 sequences assigned
686 (83.6%) exact matches, in which:
659 unique CDR3
6 unique J



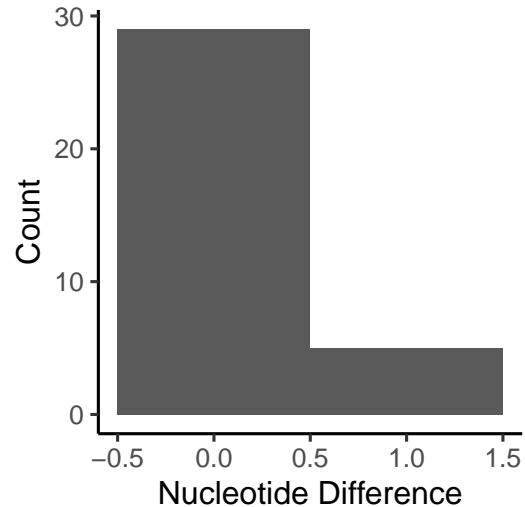
IGHV3-13*01

88 sequences assigned
81 (92%) exact matches, in which:
78 unique CDR3
5 unique J



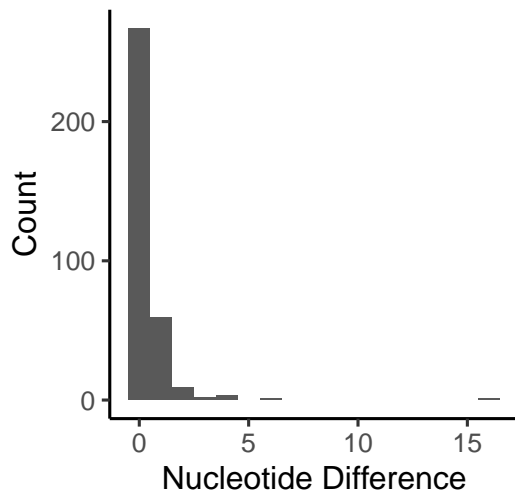
IGHV3-20*01

34 sequences assigned
29 (85.3%) exact matches, in which:
29 unique CDR3
5 unique J



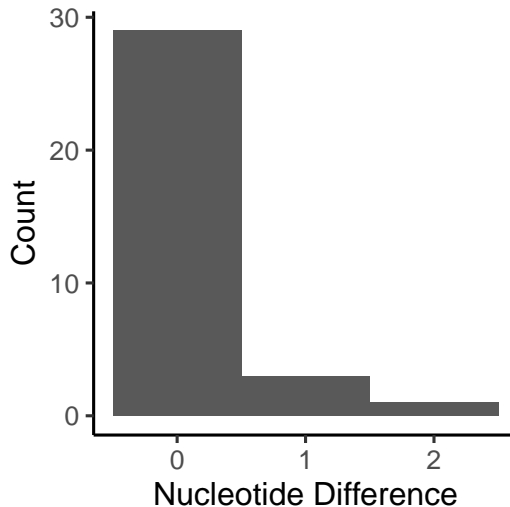
IGHV3-11*01

343 sequences assigned
267 (77.8%) exact matches, in which:
259 unique CDR3
6 unique J



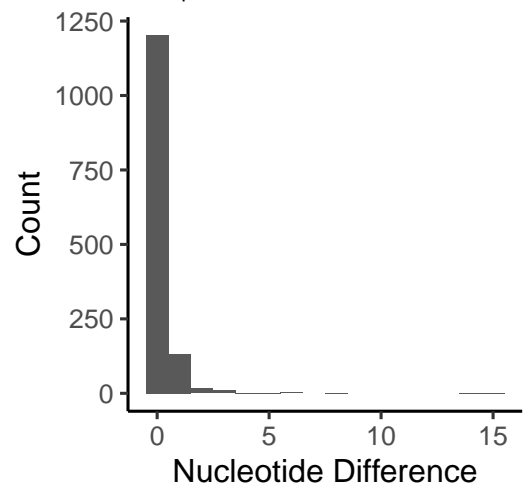
IGHV3-13*05

33 sequences assigned
29 (87.9%) exact matches, in which:
27 unique CDR3
4 unique J



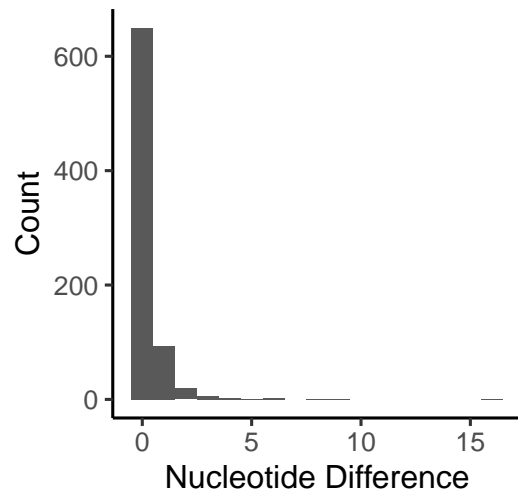
IGHV3-21*01

1374 sequences assigned
1203 (87.6%) exact matches, in which:
1150 unique CDR3
7 unique J



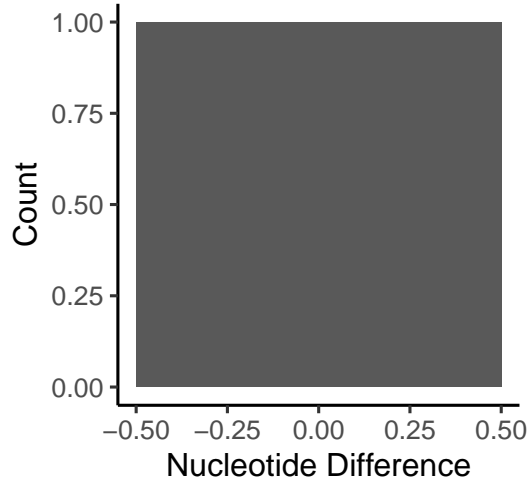
IGHV3–23*04

777 sequences assigned
650 (83.7%) exact matches, in which:
624 unique CDR3
6 unique J



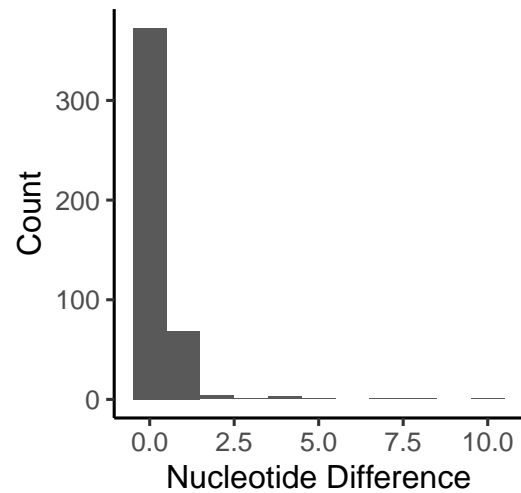
IGHV3–35*01

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



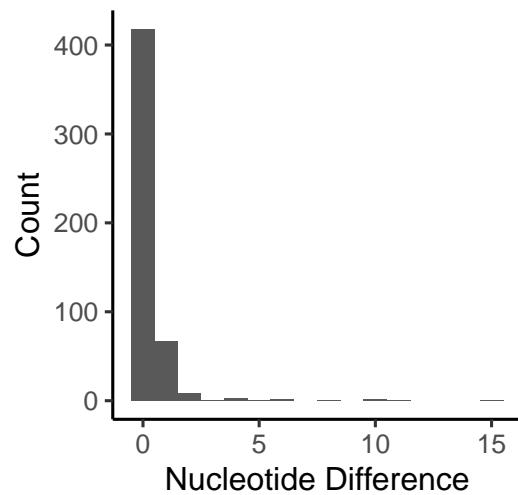
IGHV3–48*03

454 sequences assigned
373 (82.2%) exact matches, in which:
364 unique CDR3
7 unique J



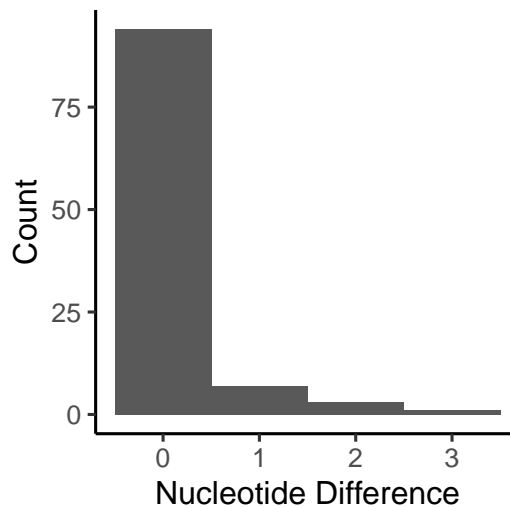
IGHV3–33*01

505 sequences assigned
418 (82.8%) exact matches, in which:
394 unique CDR3
7 unique J



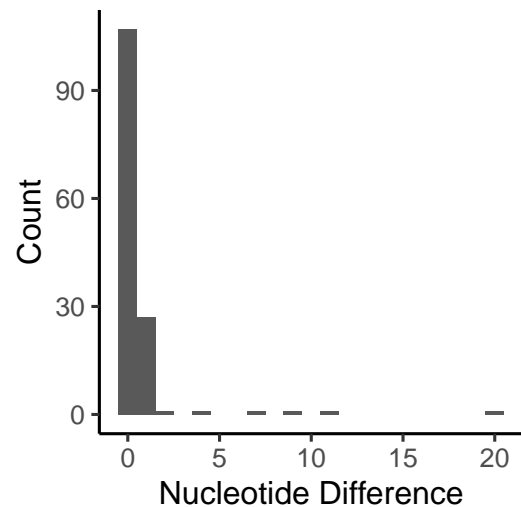
IGHV3–43*01

105 sequences assigned
94 (89.5%) exact matches, in which:
89 unique CDR3
7 unique J



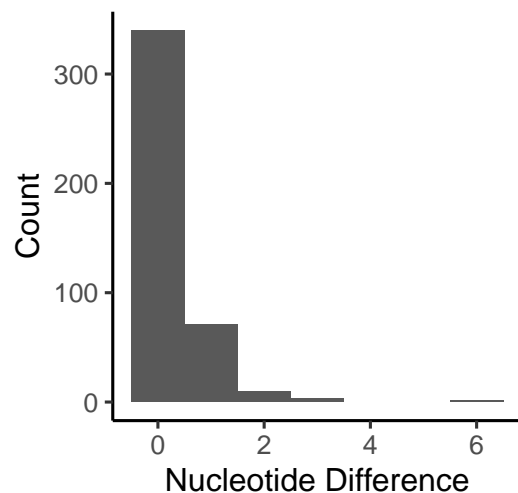
IGHV3–49*03

140 sequences assigned
107 (76.4%) exact matches, in which:
103 unique CDR3
5 unique J



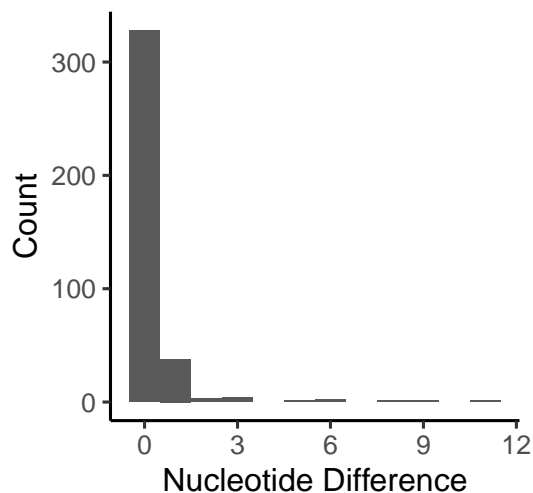
IGHV3–33*08

425 sequences assigned
340 (80%) exact matches, in which:
318 unique CDR3
7 unique J



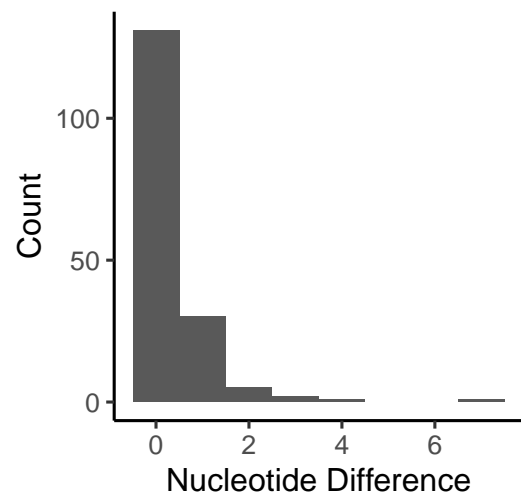
IGHV3–48*01

380 sequences assigned
328 (86.3%) exact matches, in which:
315 unique CDR3
6 unique J



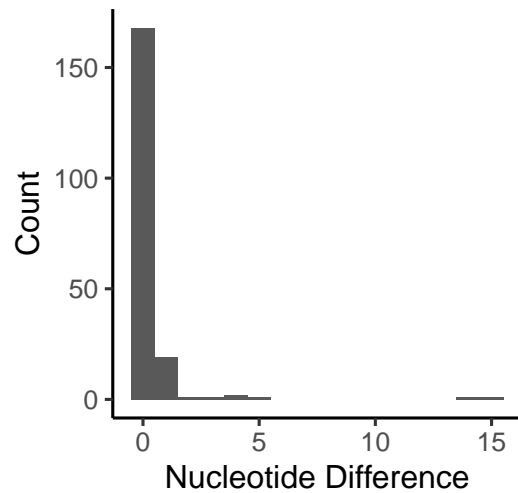
IGHV3–49*04

170 sequences assigned
131 (77.1%) exact matches, in which:
128 unique CDR3
6 unique J



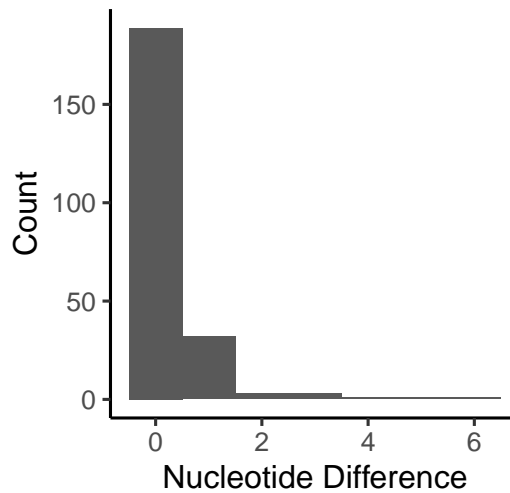
IGHV3-53*01

194 sequences assigned
168 (86.6%) exact matches, in which:
162 unique CDR3
6 unique J



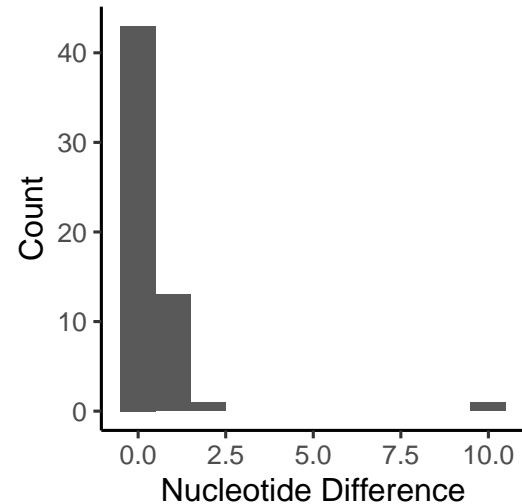
IGHV3-66*01

230 sequences assigned
189 (82.2%) exact matches, in which:
176 unique CDR3
6 unique J



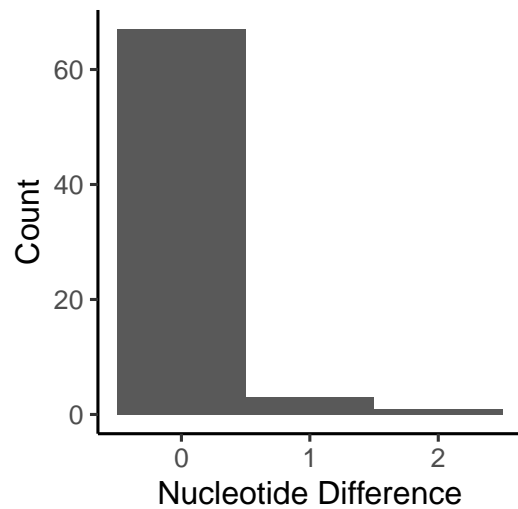
IGHV3-73*01

58 sequences assigned
43 (74.1%) exact matches, in which:
42 unique CDR3
5 unique J



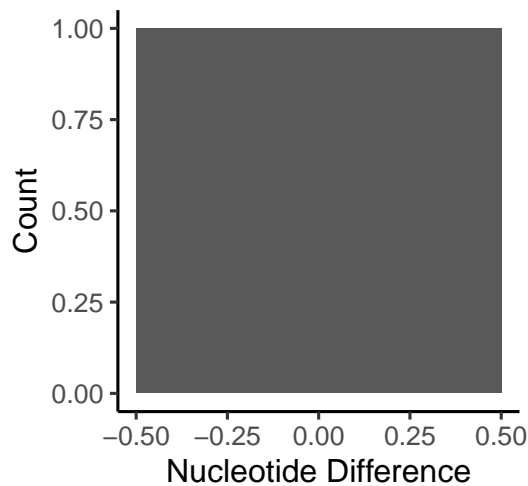
IGHV3-53*02

72 sequences assigned
67 (93.1%) exact matches, in which:
67 unique CDR3
6 unique J



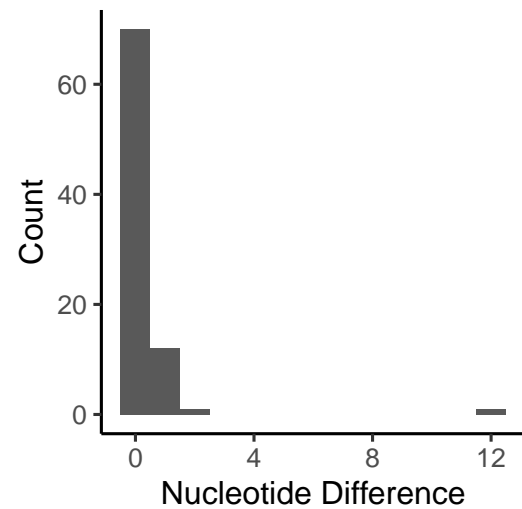
IGHV3-69-1*01

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



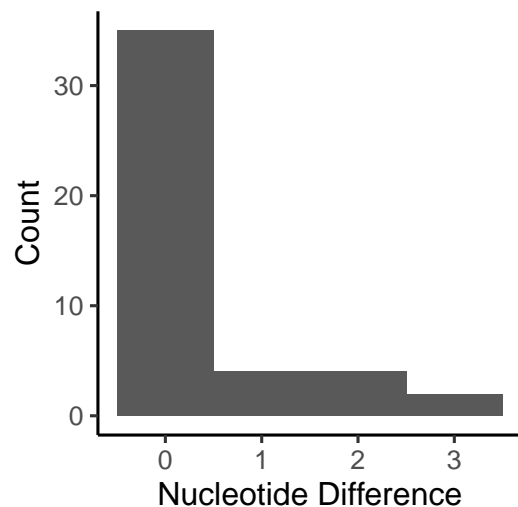
IGHV3-73*02

84 sequences assigned
70 (83.3%) exact matches, in which:
69 unique CDR3
5 unique J



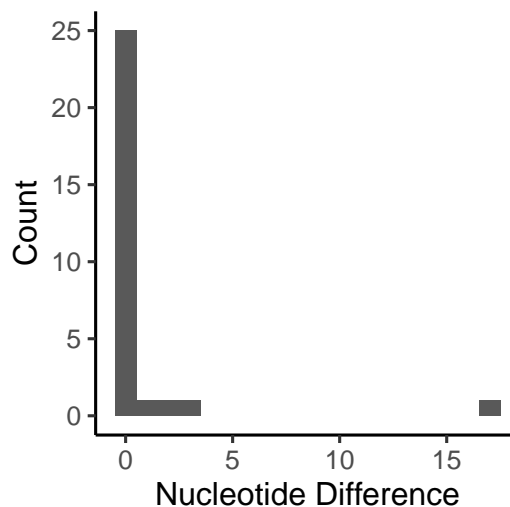
IGHV3-64*01

45 sequences assigned
35 (77.8%) exact matches, in which:
32 unique CDR3
3 unique J



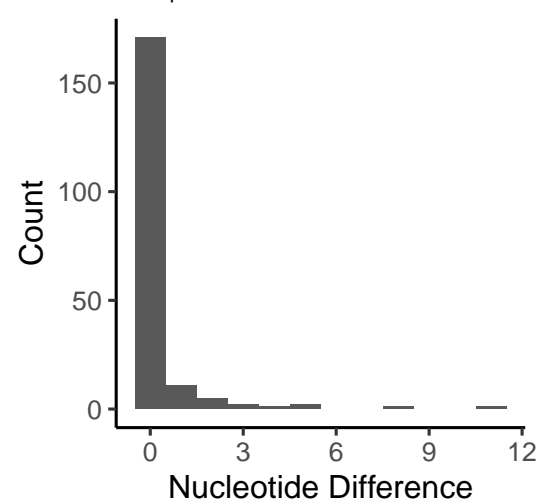
IGHV3-72*01

30 sequences assigned
25 (83.3%) exact matches, in which:
25 unique CDR3
5 unique J



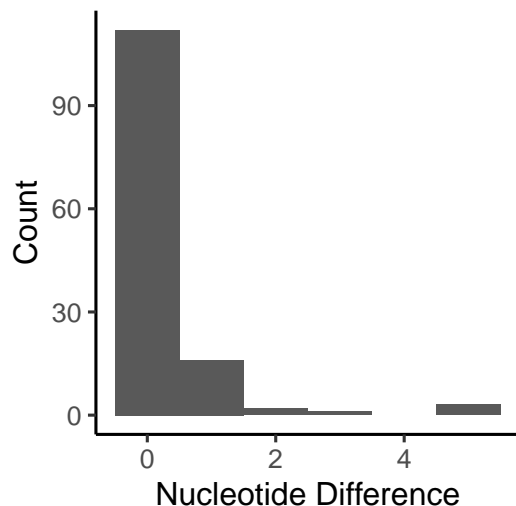
IGHV3-74*01

194 sequences assigned
171 (88.1%) exact matches, in which:
166 unique CDR3
7 unique J



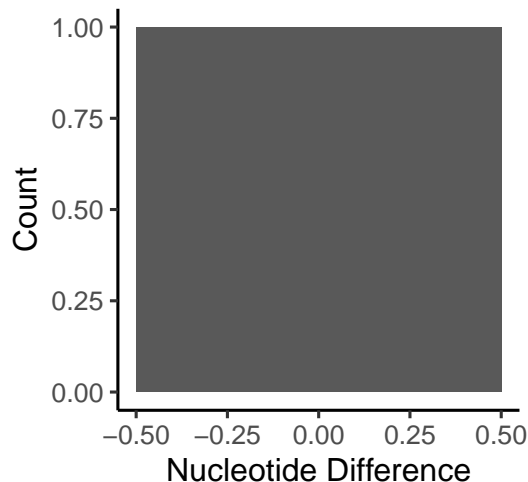
IGHV3–64D*06

134 sequences assigned
112 (83.6%) exact matches, in which:
106 unique CDR3
6 unique J



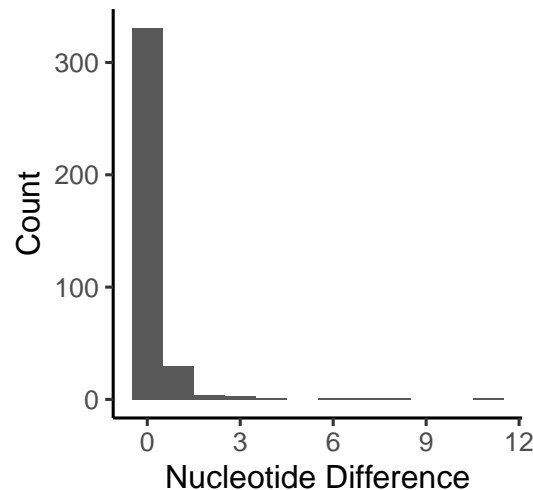
IGHV4–28*03

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



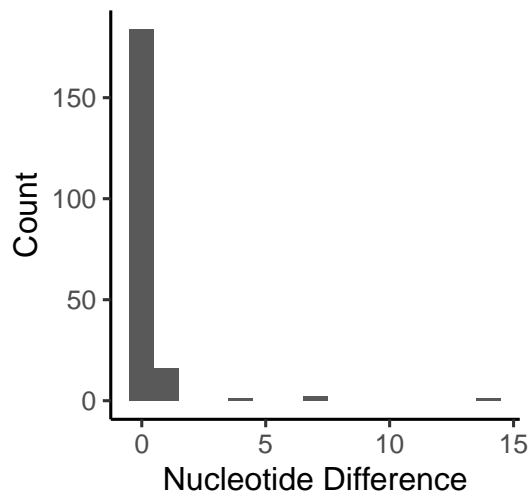
IGHV4–31*03

375 sequences assigned
331 (88.3%) exact matches, in which:
324 unique CDR3
6 unique J



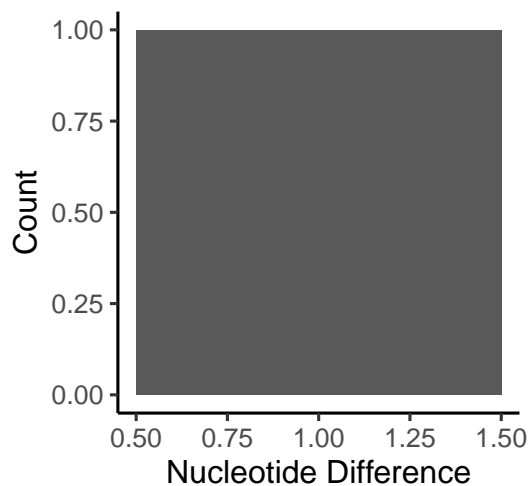
IGHV4–4*02

204 sequences assigned
184 (90.2%) exact matches, in which:
184 unique CDR3
6 unique J



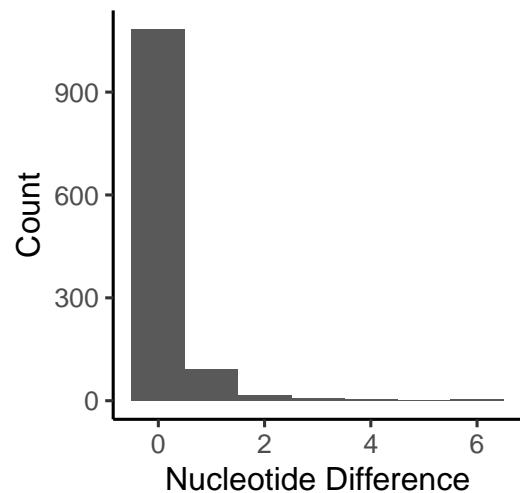
IGHV4–28*04

1 sequences assigned
No exact matches.



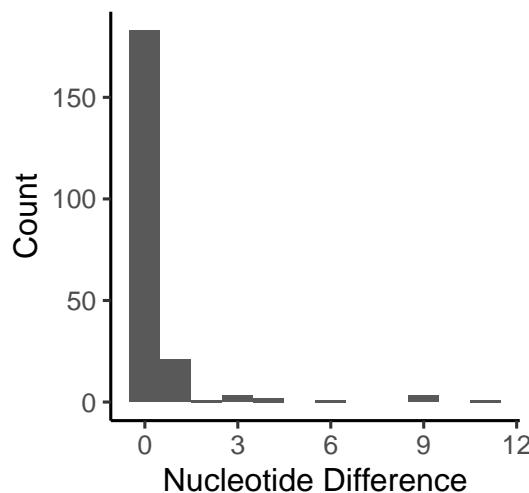
IGHV4–34*01

1211 sequences assigned
1084 (89.5%) exact matches, in which:
1056 unique CDR3
7 unique J



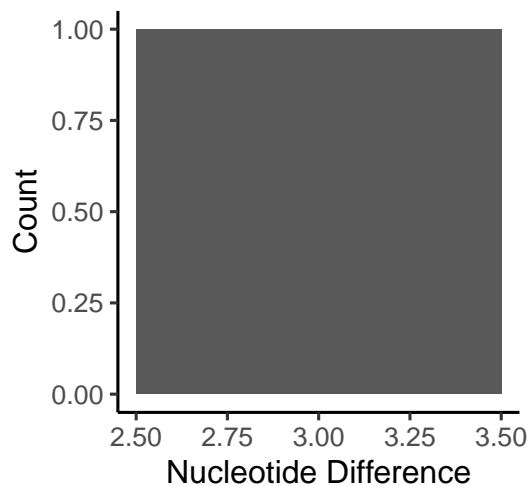
IGHV4–4*07

215 sequences assigned
183 (85.1%) exact matches, in which:
183 unique CDR3
6 unique J



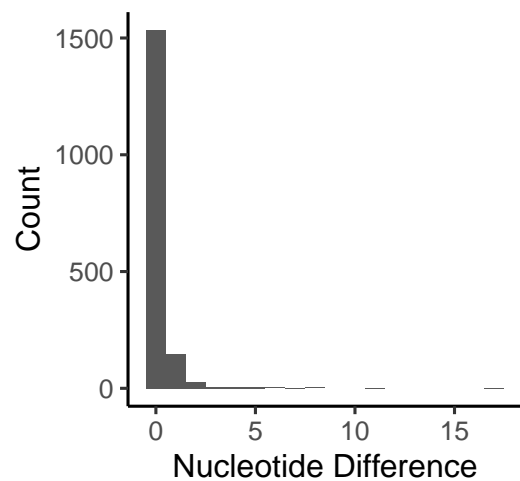
IGHV4–30–4*07

1 sequences assigned
No exact matches.



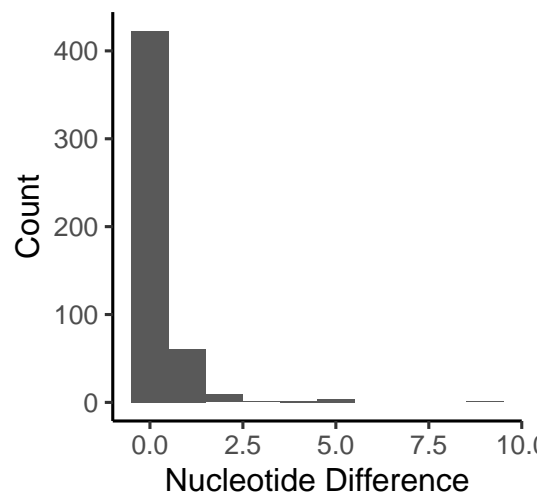
IGHV4–39*01

1741 sequences assigned
1534 (88.1%) exact matches, in which:
1483 unique CDR3
7 unique J



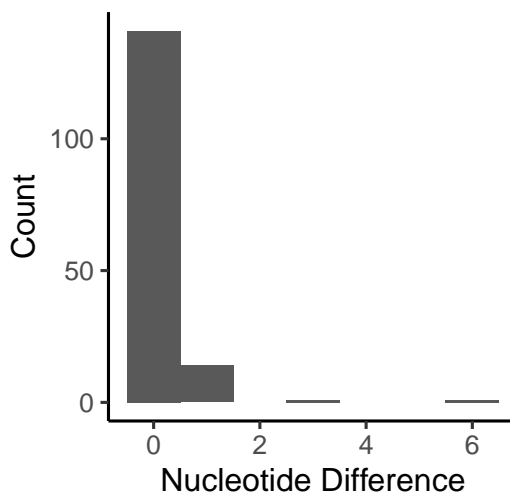
IGHV4–59*01

502 sequences assigned
423 (84.3%) exact matches, in which:
418 unique CDR3
7 unique J



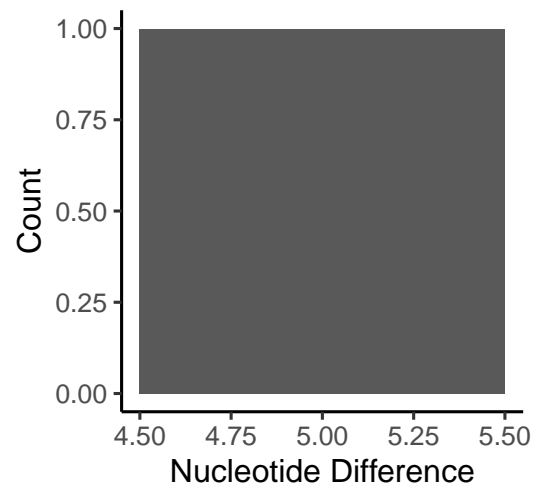
IGHV5–10–1*03

157 sequences assigned
141 (89.8%) exact matches, in which:
138 unique CDR3
7 unique J



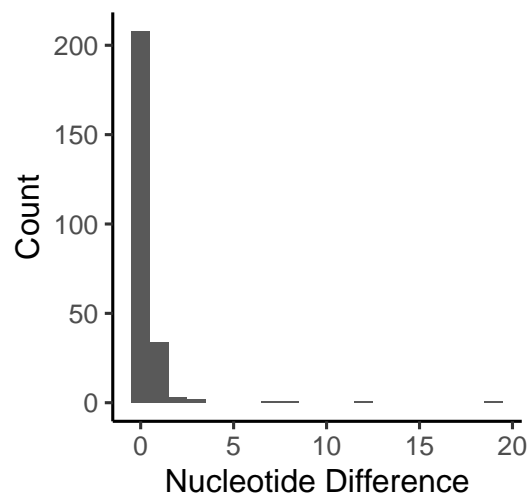
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.



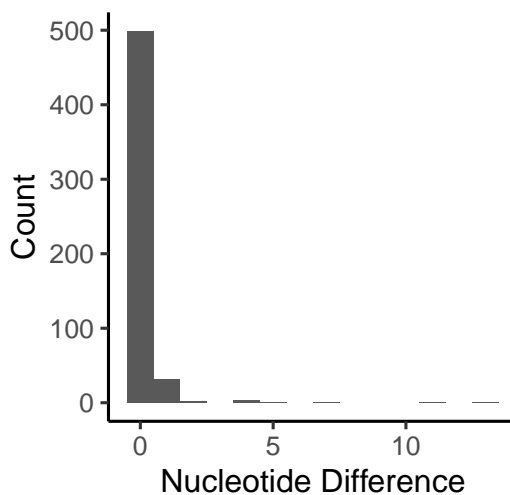
IGHV4–59*08

251 sequences assigned
208 (82.9%) exact matches, in which:
205 unique CDR3
7 unique J



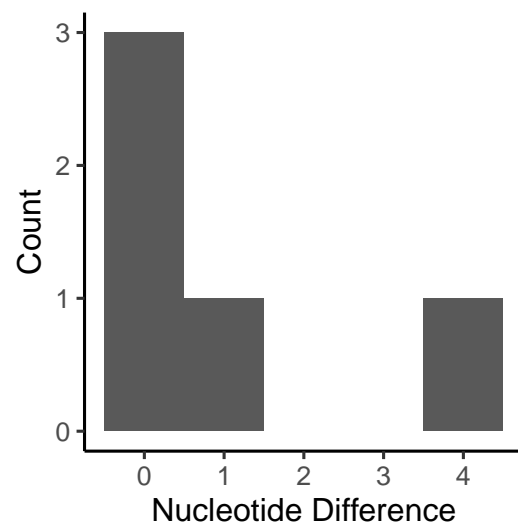
IGHV5–51*01

542 sequences assigned
499 (92.1%) exact matches, in which:
490 unique CDR3
7 unique J



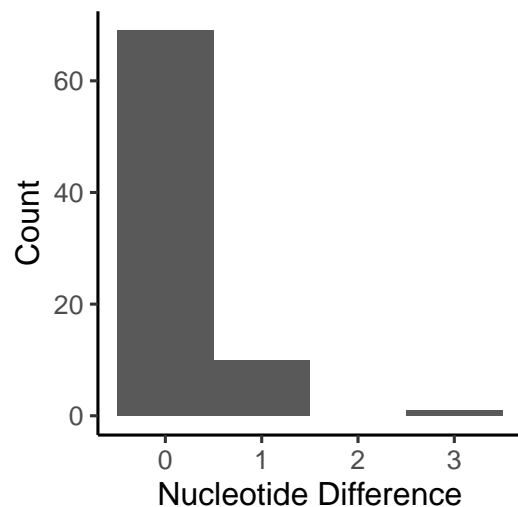
IGHV7–4–1*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



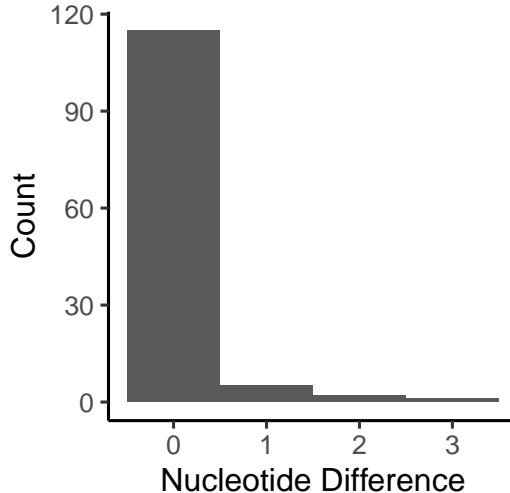
IGHV4–61*01

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

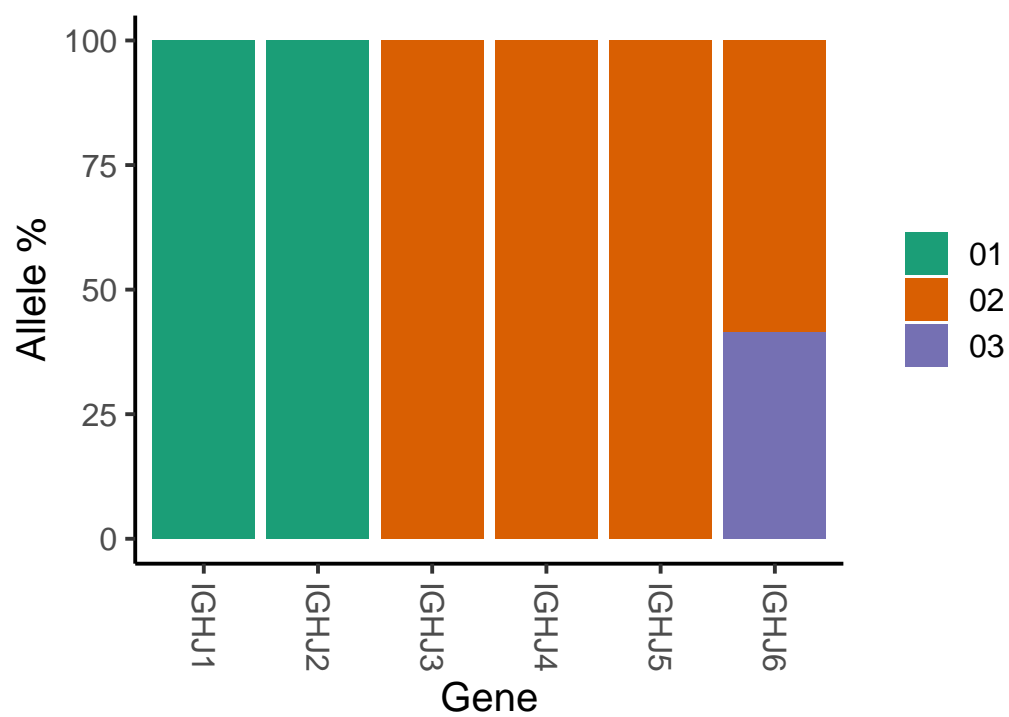


IGHV6–1*01

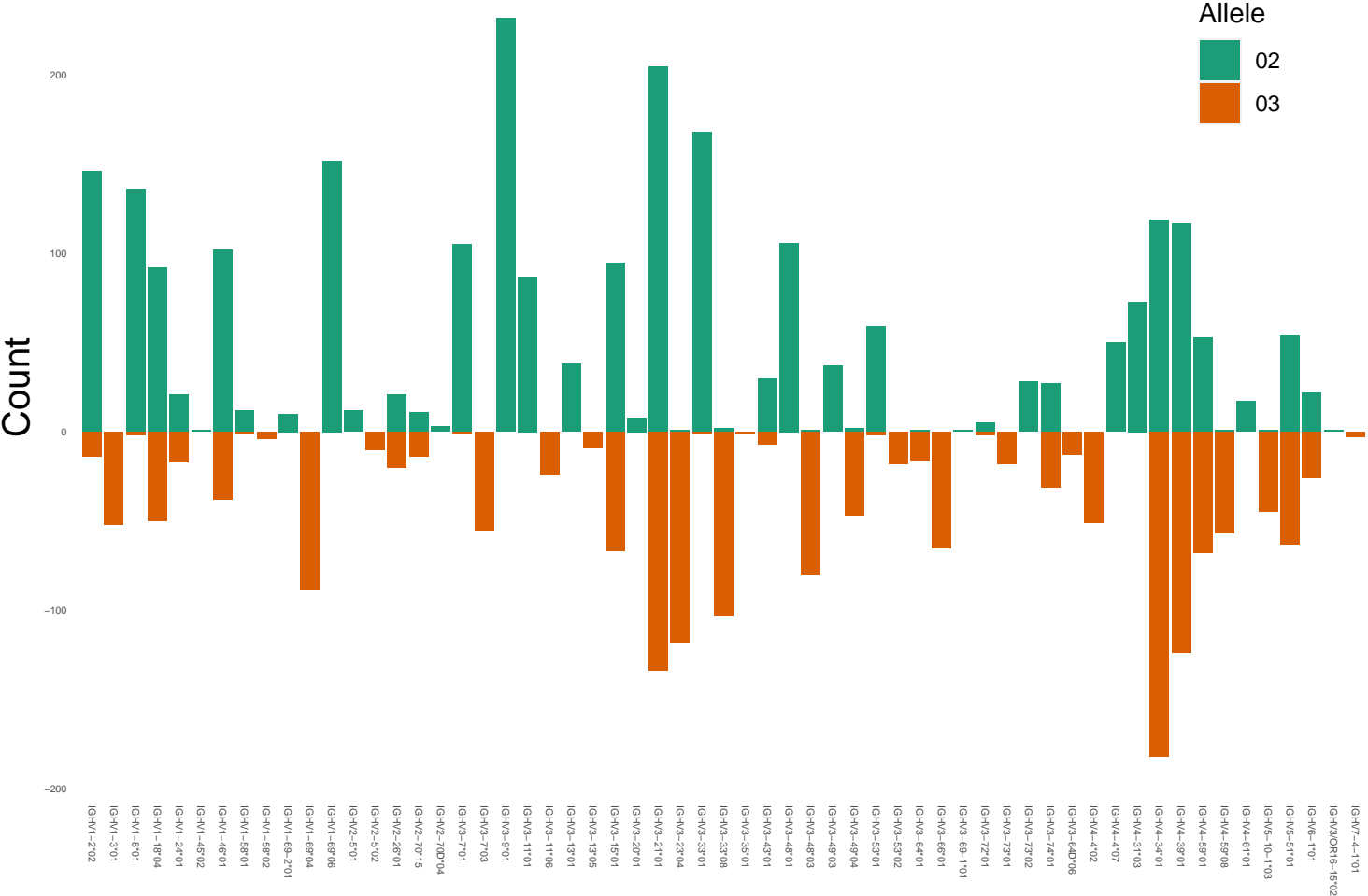
123 sequences assigned
115 (93.5%) exact matches, in which:
114 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.