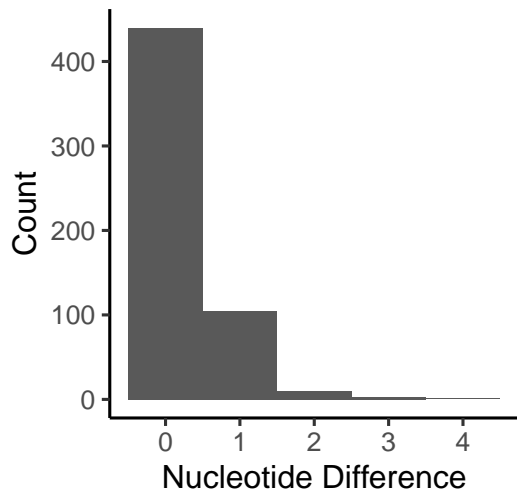


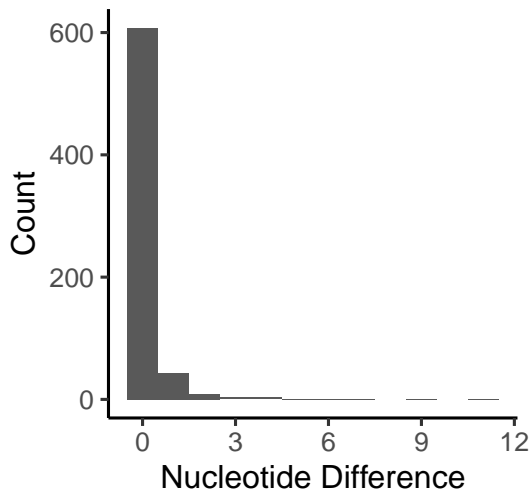
IGHV1-2*02

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



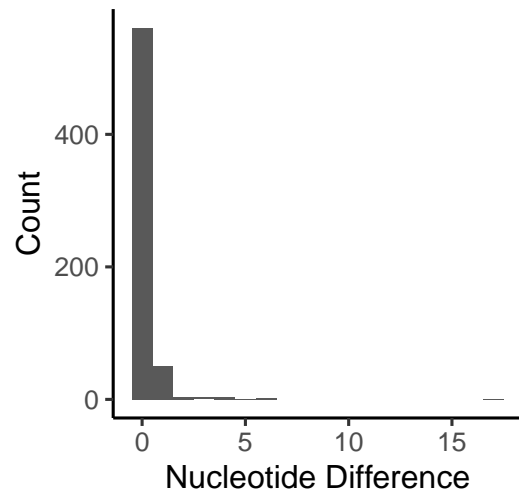
IGHV1-18*04

672 sequences assigned
608 (90.5%) exact matches, in which:
599 unique CDR3
7 unique J



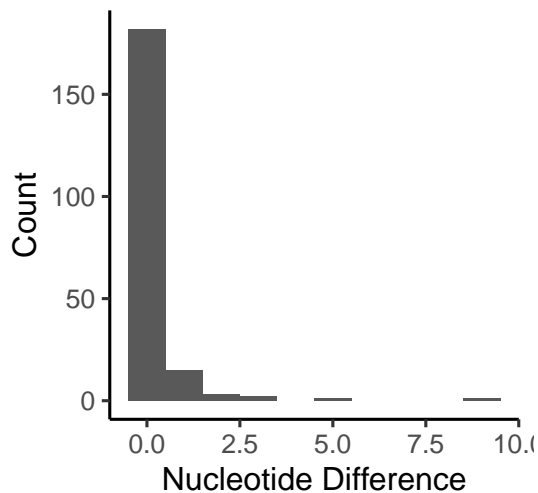
IGHV1-46*01

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



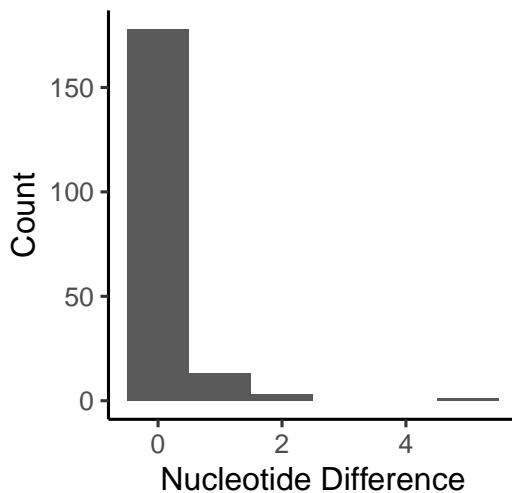
IGHV1-3*01

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



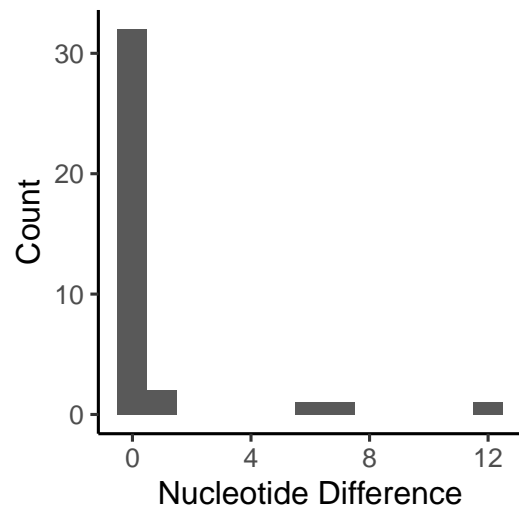
IGHV1-24*01

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



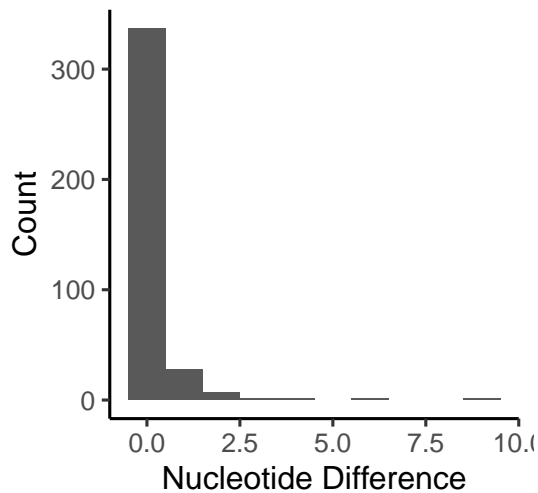
IGHV1-58*01

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



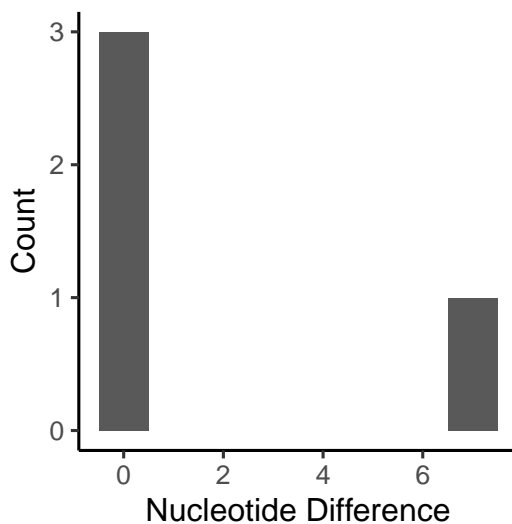
IGHV1-8*01

378 sequences assigned
337 (89.2%) exact matches, in which:
329 unique CDR3
7 unique J



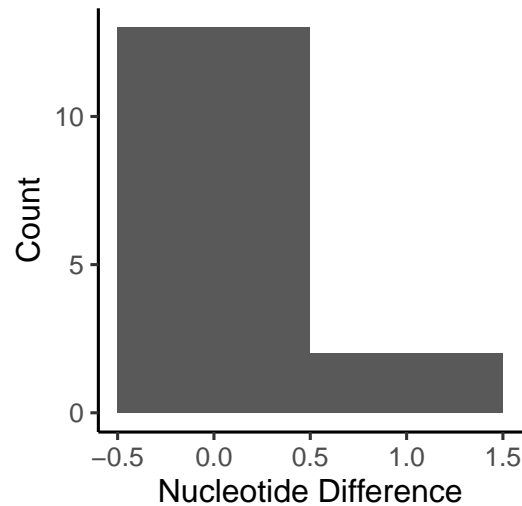
IGHV1-45*02

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



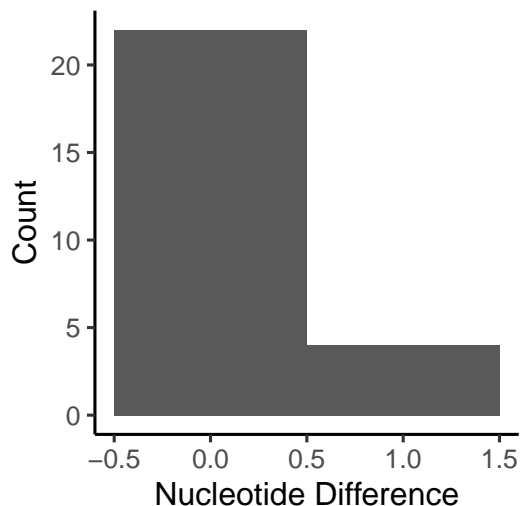
IGHV1-58*02

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



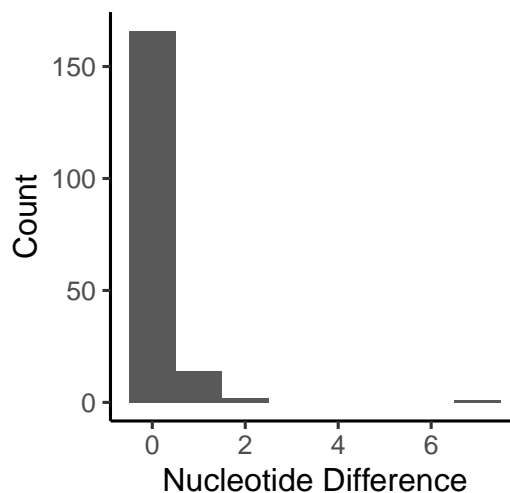
IGHV1-69-2*01

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



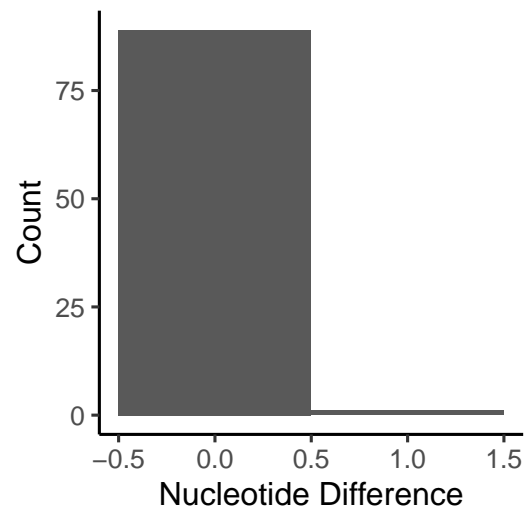
IGHV2-5*01

185 sequences assigned
166 (89.7%) exact matches, in which:
161 unique CDR3
6 unique J



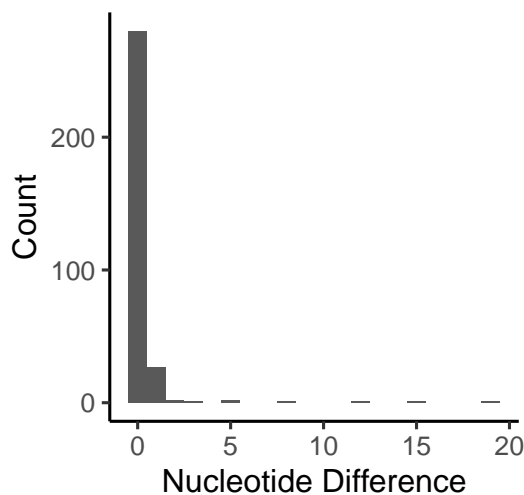
IGHV2-70*15

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



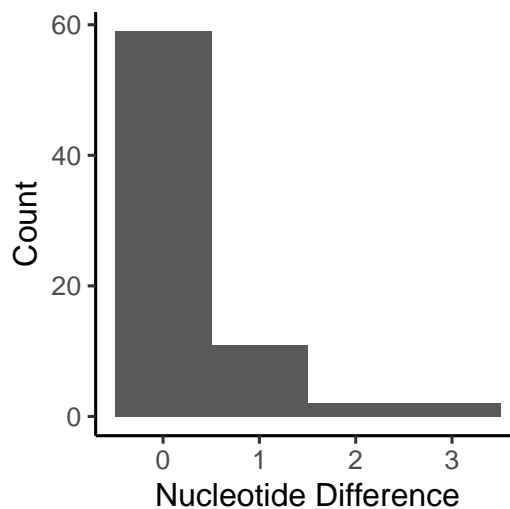
IGHV1-69*04

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



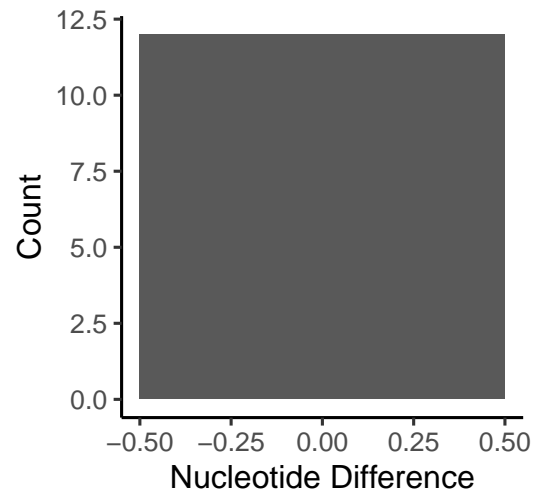
IGHV2-5*02

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



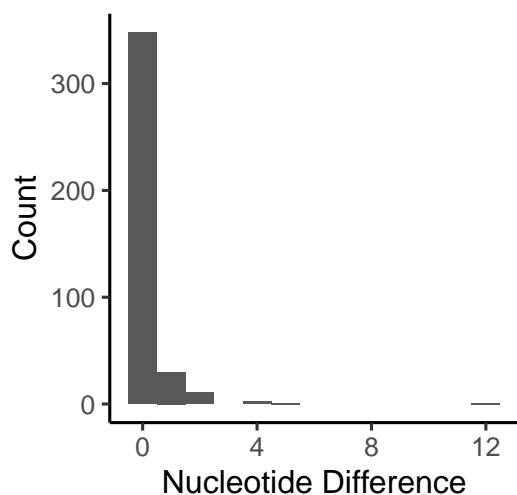
IGHV2-70D*04

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



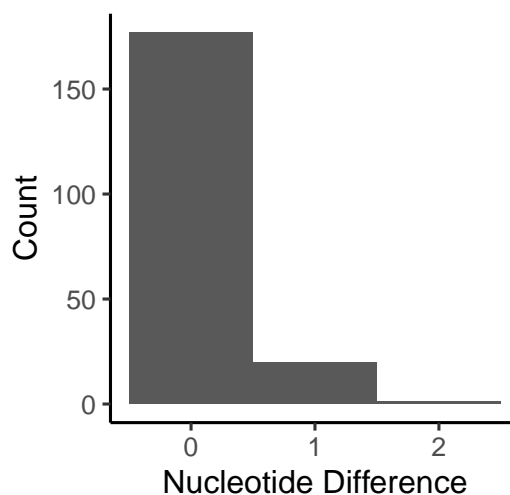
IGHV1-69*06

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



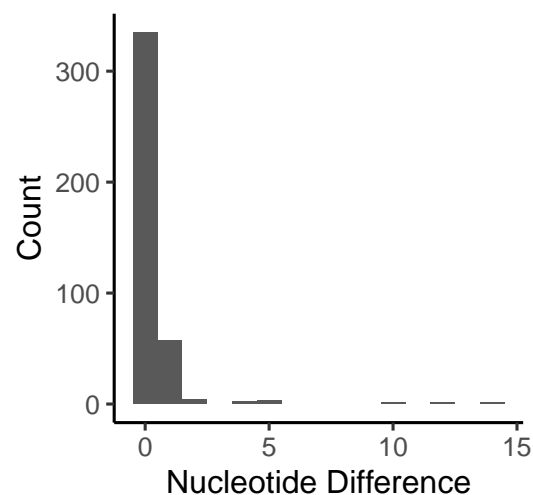
IGHV2-26*01

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



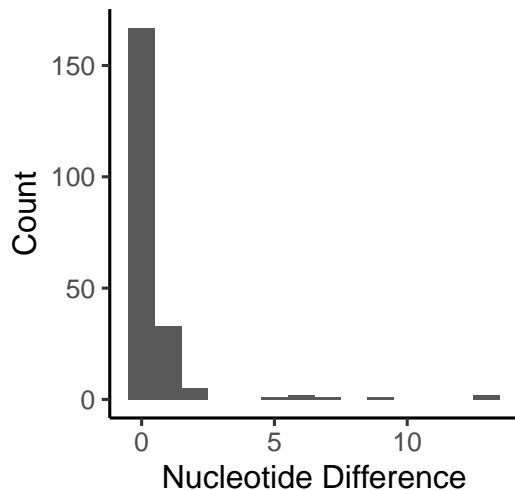
IGHV3-7*01

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



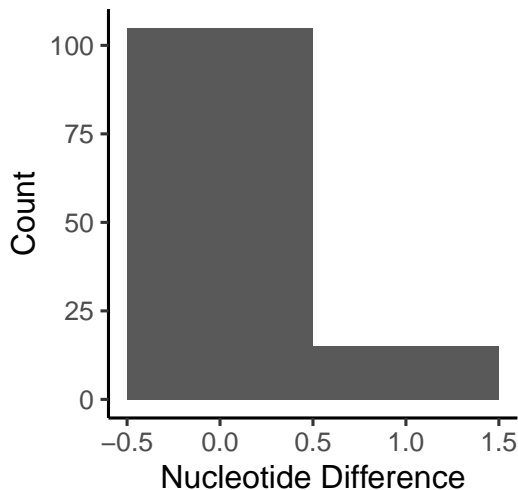
IGHV3-7*03

215 sequences assigned
167 (77.7%) exact matches, in which:
163 unique CDR3
6 unique J



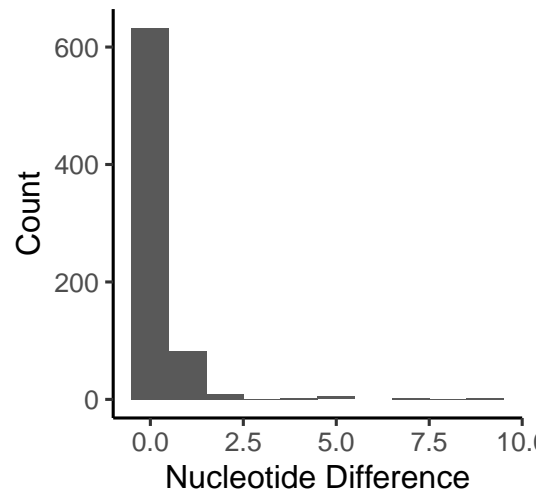
IGHV3-11*06

120 sequences assigned
105 (87.5%) exact matches, in which:
97 unique CDR3
5 unique J



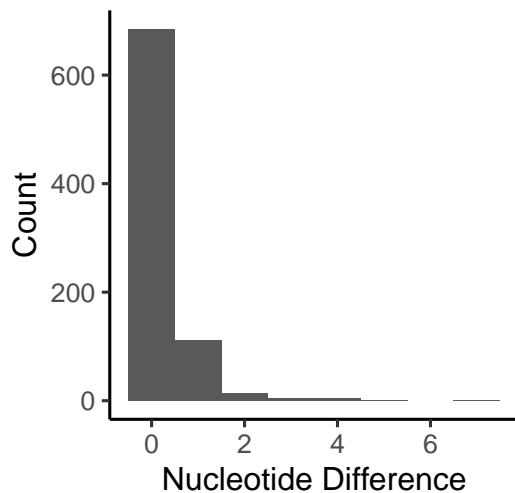
IGHV3-15*01

740 sequences assigned
633 (85.5%) exact matches, in which:
618 unique CDR3
7 unique J



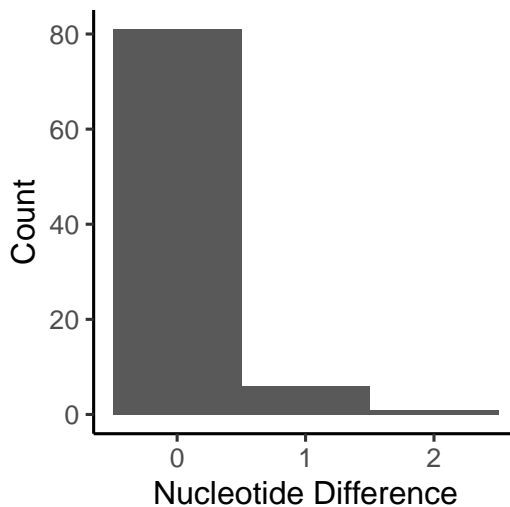
IGHV3-9*01

820 sequences assigned
685 (83.5%) exact matches, in which:
658 unique CDR3
6 unique J



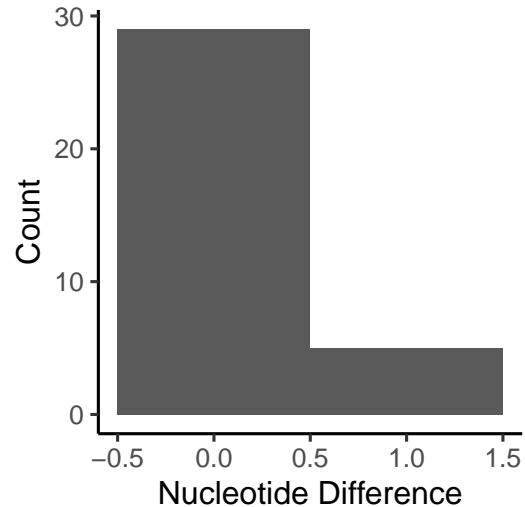
IGHV3-13*01

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



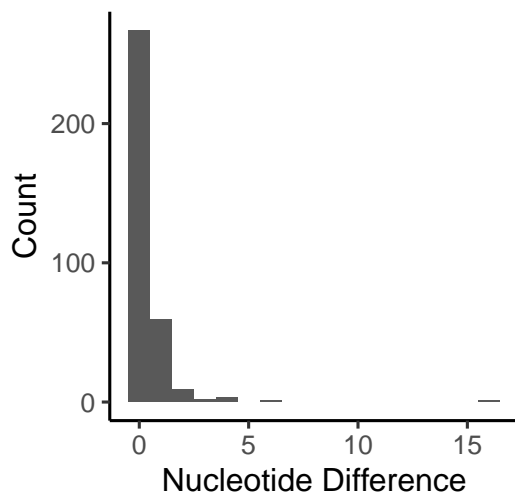
IGHV3-20*01

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



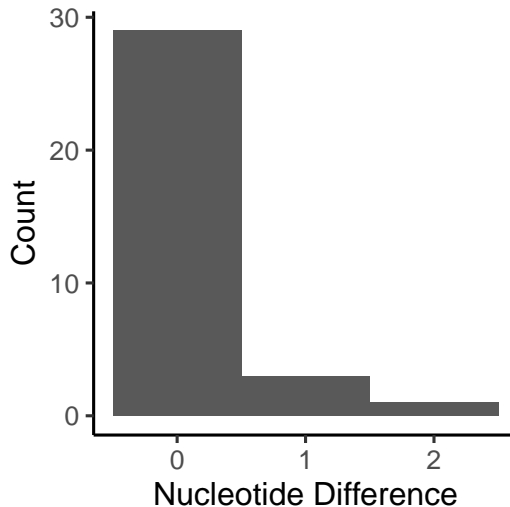
IGHV3-11*01

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



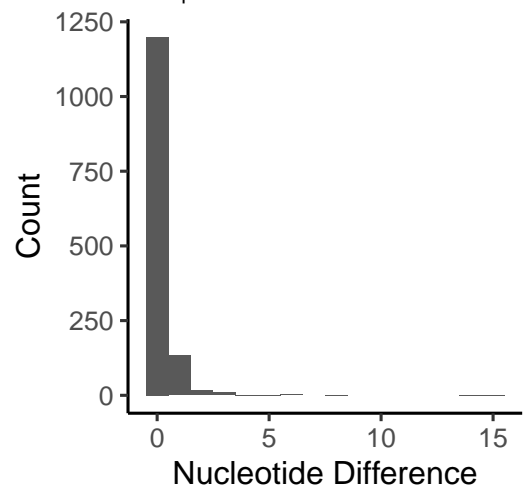
IGHV3-13*05

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



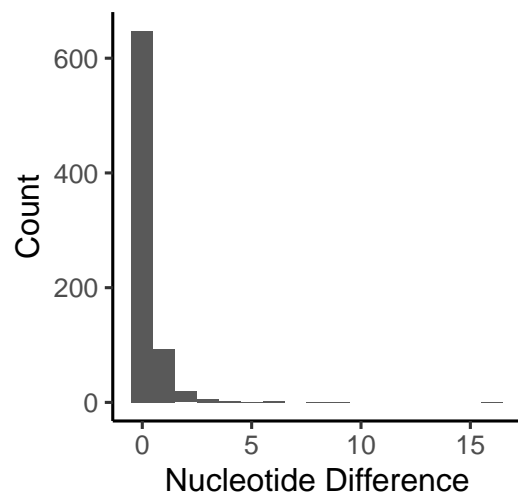
IGHV3-21*01

1370 sequences assigned
1199 (87.5%) exact matches, in which:
1146 unique CDR3
7 unique J



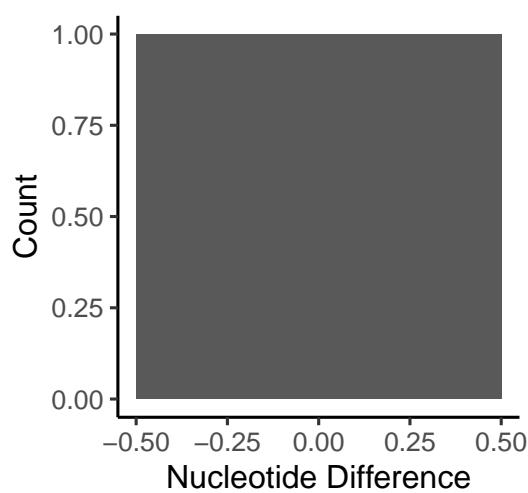
IGHV3-23*04

774 sequences assigned
648 (83.7%) exact matches, in which:
622 unique CDR3
6 unique J



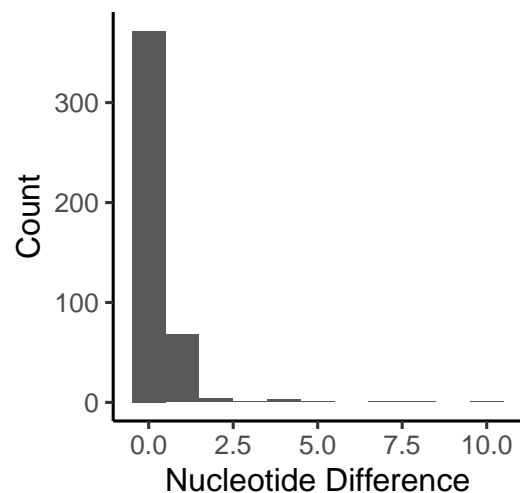
IGHV3-35*01

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



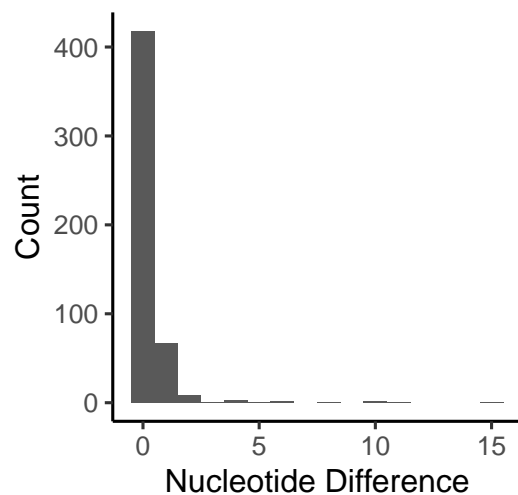
IGHV3-48*03

452 sequences assigned
372 (82.3%) exact matches, in which:
363 unique CDR3
7 unique J



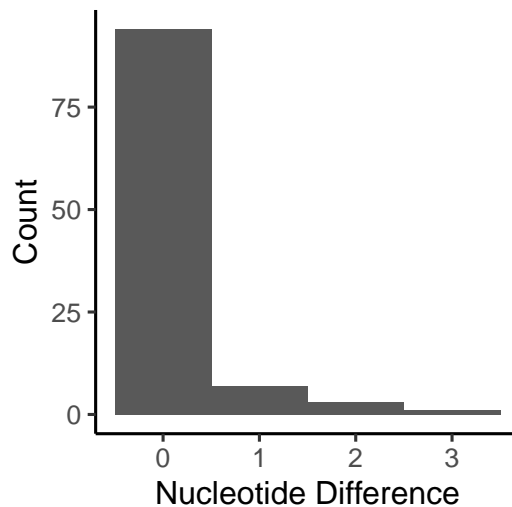
IGHV3-33*01

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



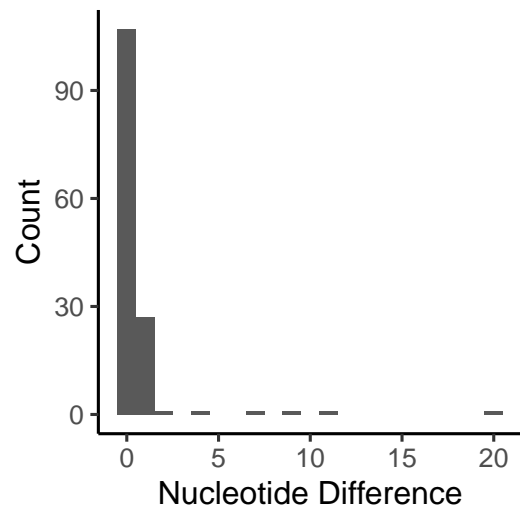
IGHV3-43*01

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



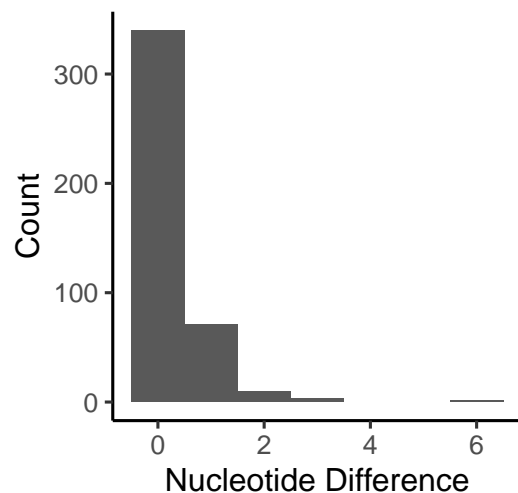
IGHV3-49*03

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



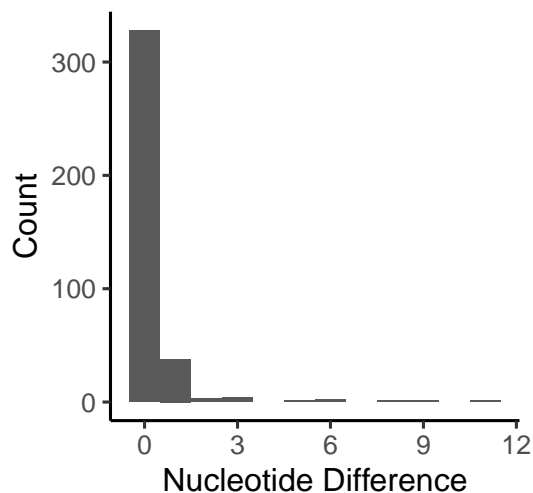
IGHV3-33*08

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



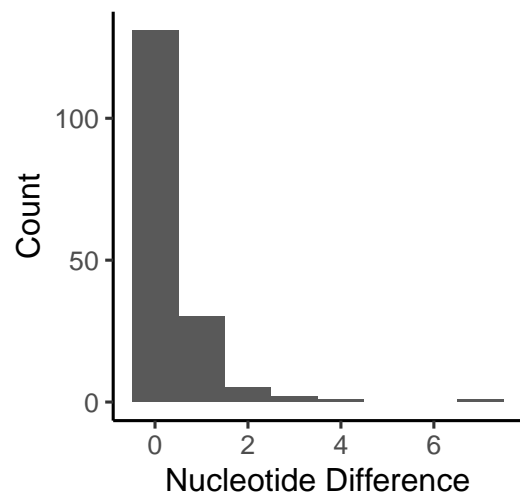
IGHV3-48*01

379 sequences assigned
328 (86.5%) exact matches, in which:
315 unique CDR3
6 unique J



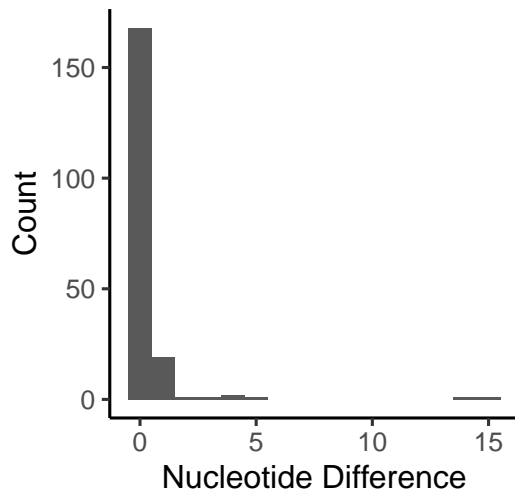
IGHV3-49*04

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



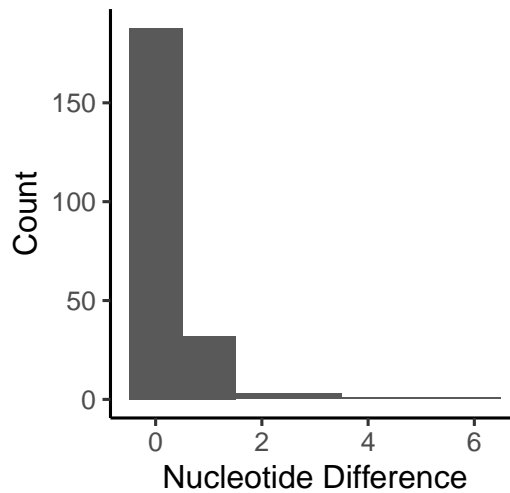
IGHV3-53*01

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



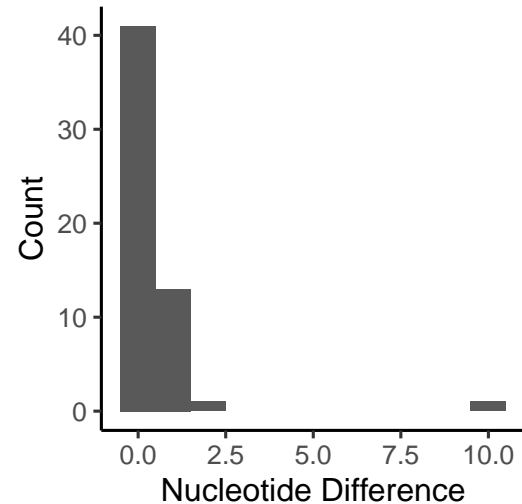
IGHV3-66*01

229 sequences assigned
188 (82.1%) exact matches, in which:
175 unique CDR3
6 unique J



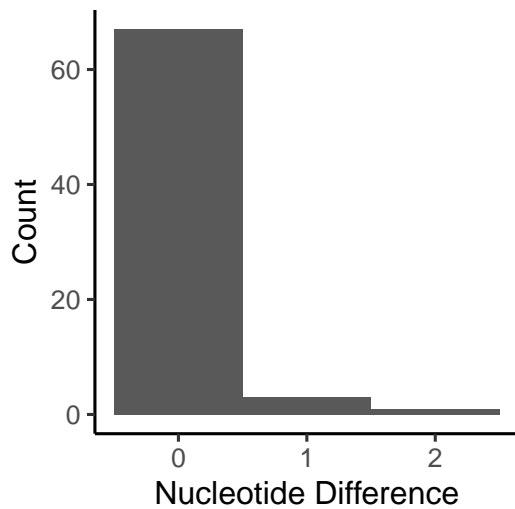
IGHV3-73*01

56 sequences assigned
41 (73.2%) exact matches, in which:
40 unique CDR3
5 unique J



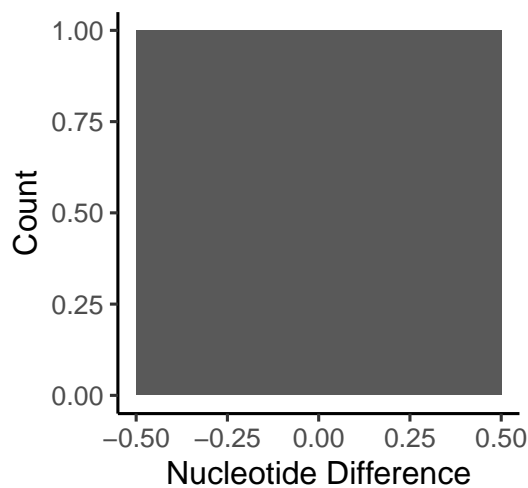
IGHV3-53*02

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



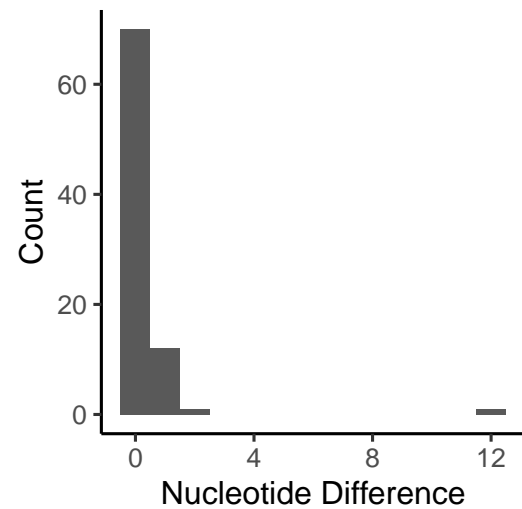
IGHV3-69-1*01

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



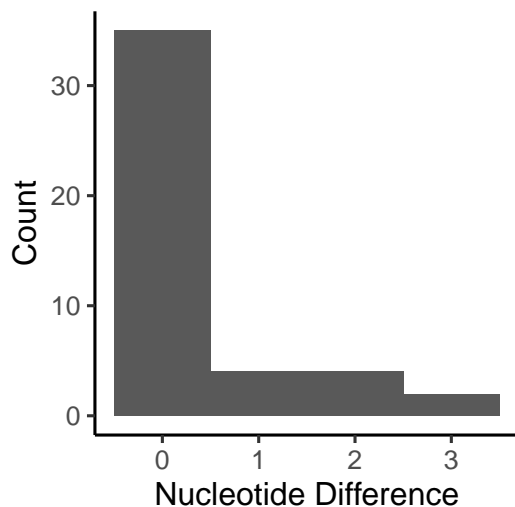
IGHV3-73*02

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



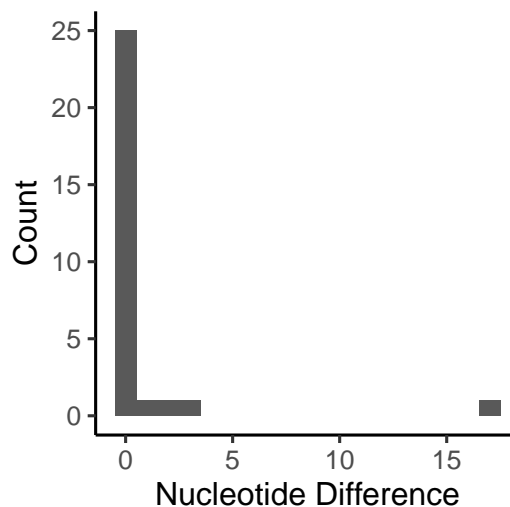
IGHV3-64*01

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



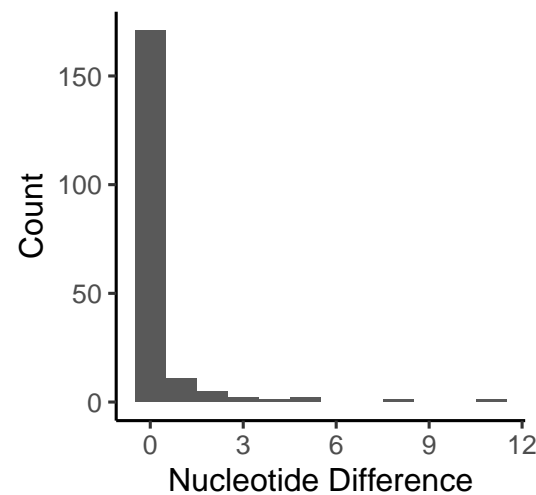
IGHV3-72*01

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



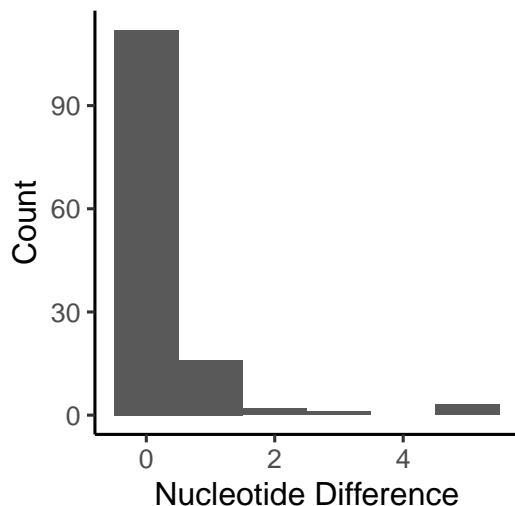
IGHV3-74*01

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



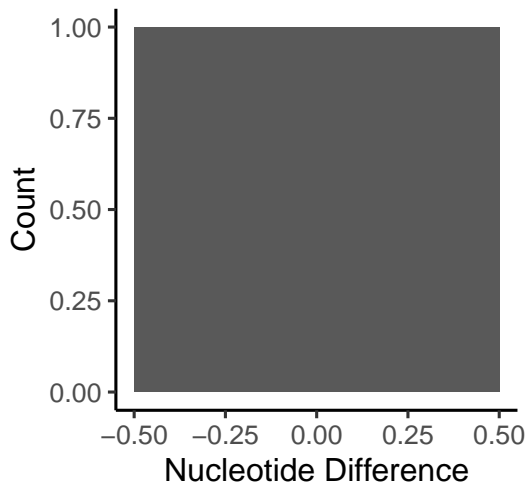
IGHV3-64D*06

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



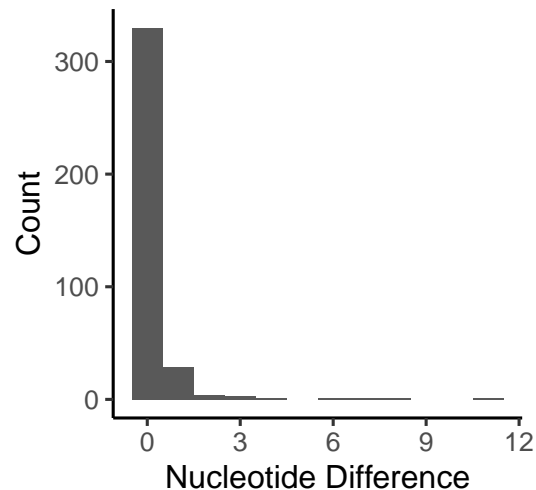
IGHV4-28*03

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



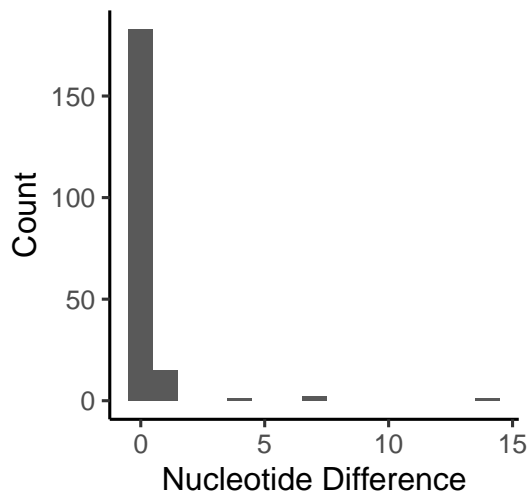
IGHV4-31*03

373 sequences assigned
330 (88.5%) exact matches, in which:
323 unique CDR3
6 unique J



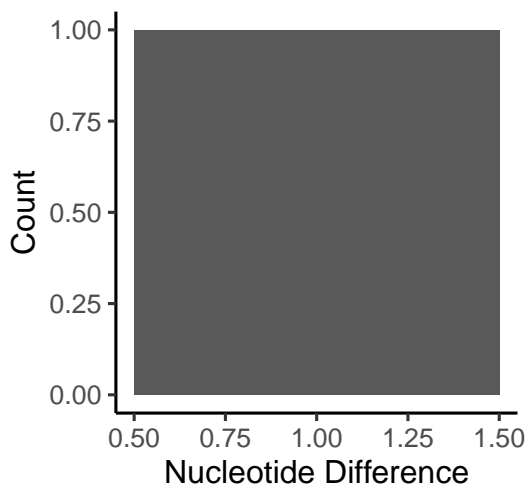
IGHV4-4*02

202 sequences assigned
183 (90.6%) exact matches, in which:
183 unique CDR3
6 unique J



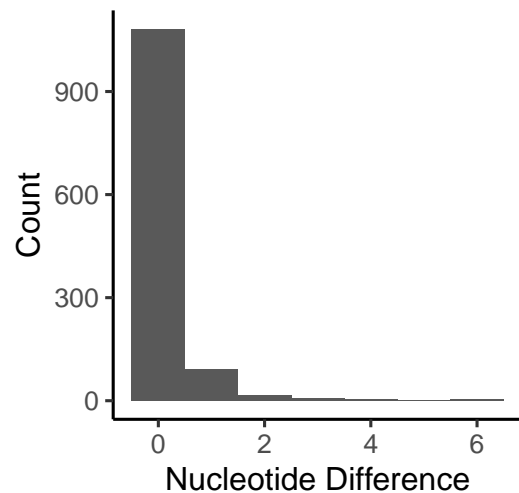
IGHV4-28*04

1 sequences assigned
No exact matches.



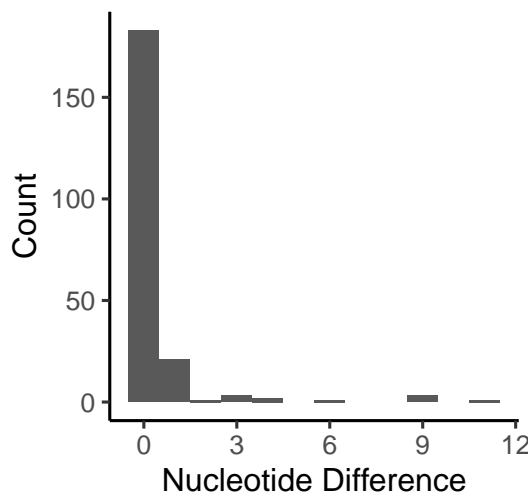
IGHV4-34*01

1208 sequences assigned
1082 (89.6%) exact matches, in which:
1054 unique CDR3
7 unique J



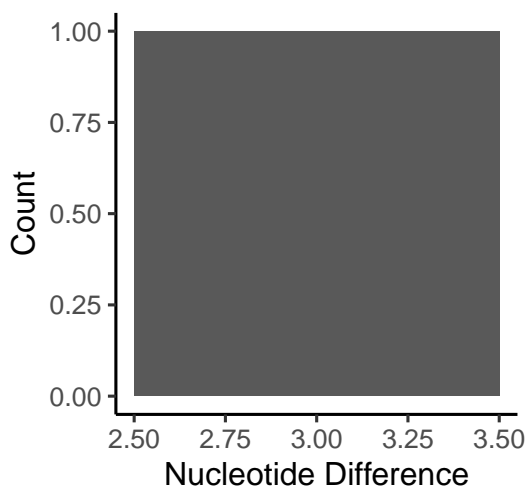
IGHV4-4*07

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



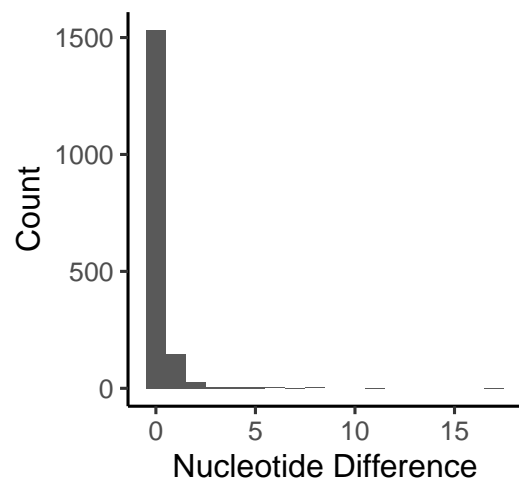
IGHV4-30-4*07

1 sequences assigned
No exact matches.



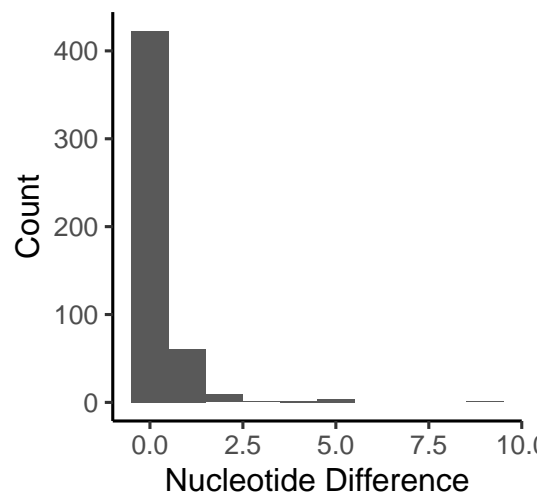
IGHV4-39*01

1738 sequences assigned
1532 (88.1%) exact matches, in which:
1481 unique CDR3
7 unique J



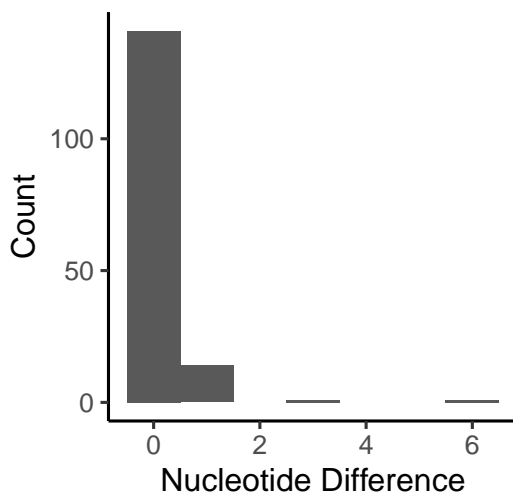
IGHV4–59*01

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



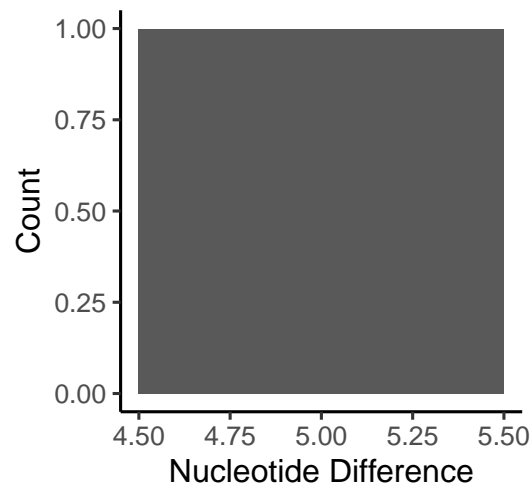
IGHV5–10–1*03

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



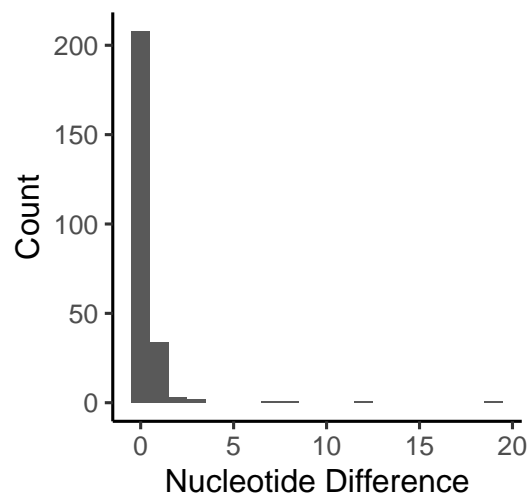
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.



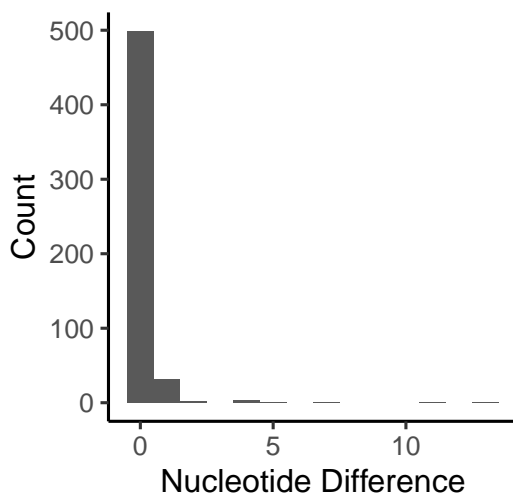
IGHV4–59*08

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



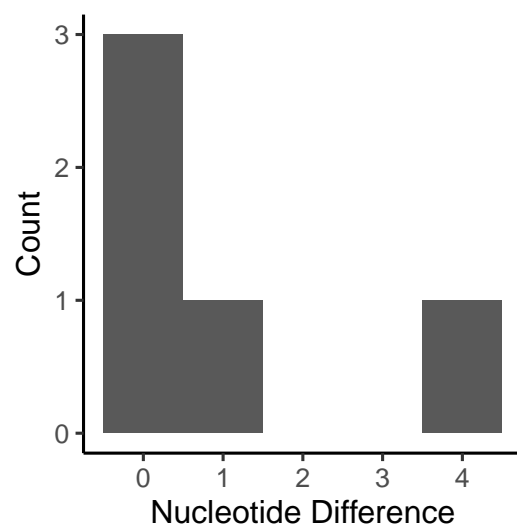
IGHV5–51*01

541 sequences assigned
499 (92.2%) exact matches, in which:
490 unique CDR3
7 unique J



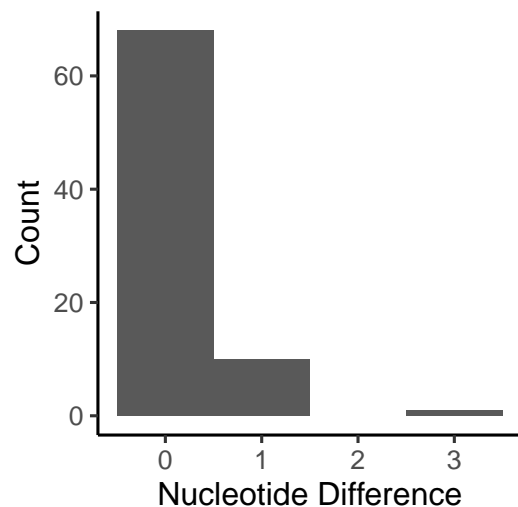
IGHV7–4–1*01

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



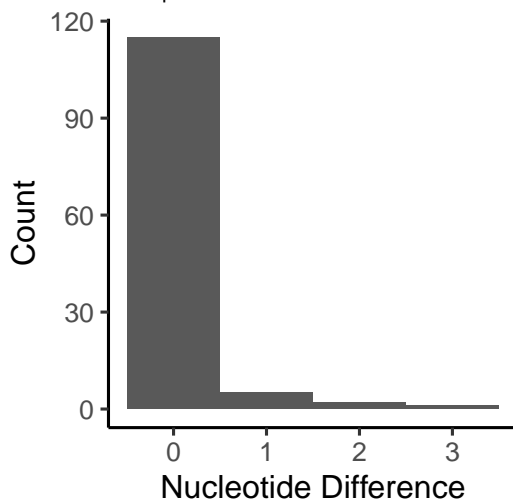
IGHV4–61*01

79 sequences assigned
68 (86.1%) exact matches, in which:
66 unique CDR3
5 unique J

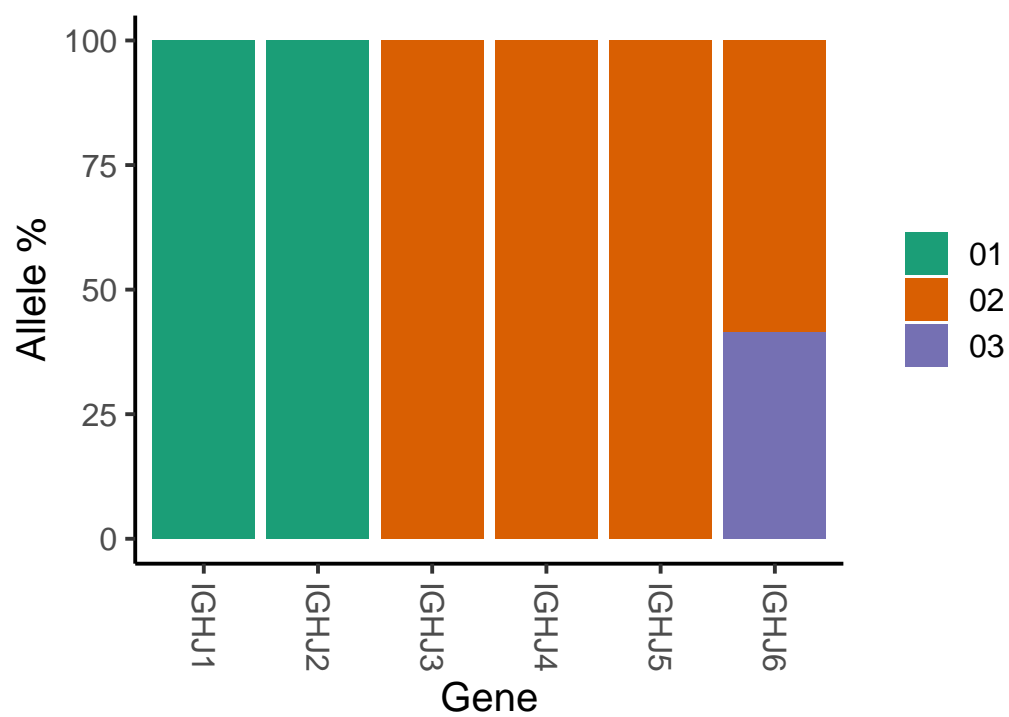


IGHV6–1*01

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



Allele Usage



Sequence Count by IGHJ6 allele usage

