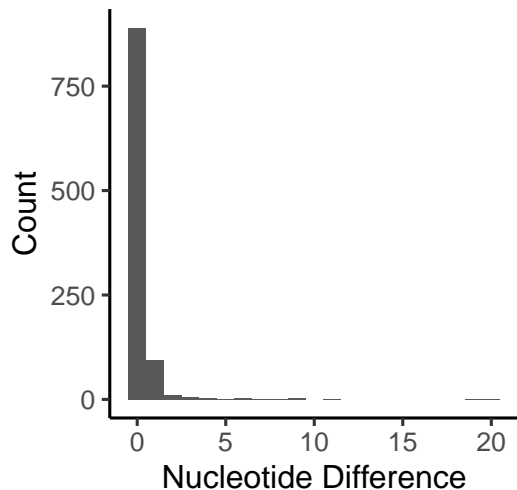


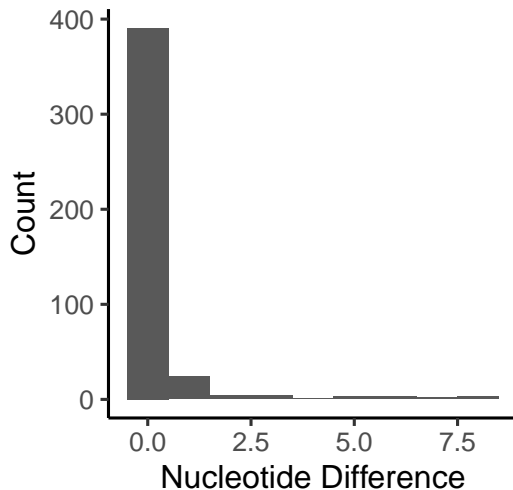
IGHV1-2*02

1018 sequences assigned
890 (87.4%) exact matches, in which:
851 unique CDR3
6 unique J



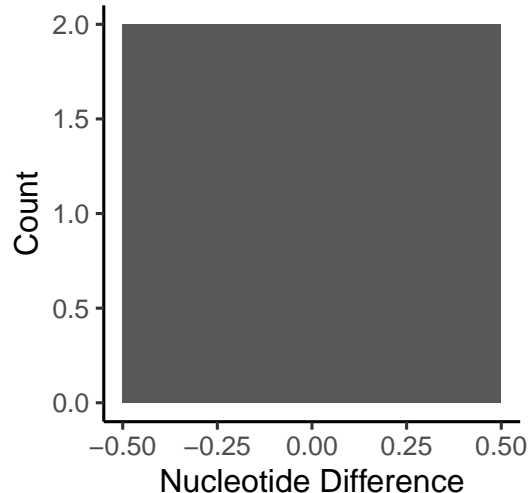
IGHV1-8*01

435 sequences assigned
391 (89.9%) exact matches, in which:
376 unique CDR3
6 unique J



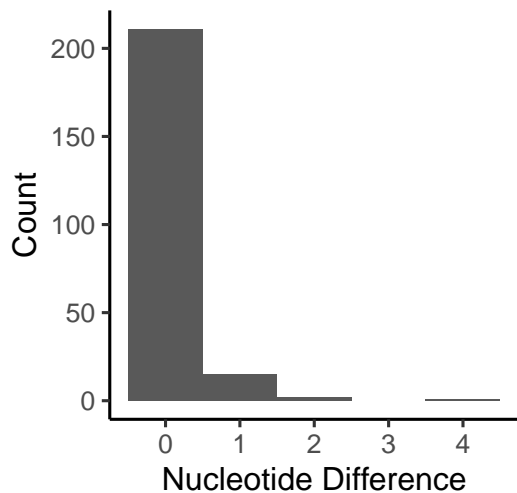
IGHV1-45*02

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



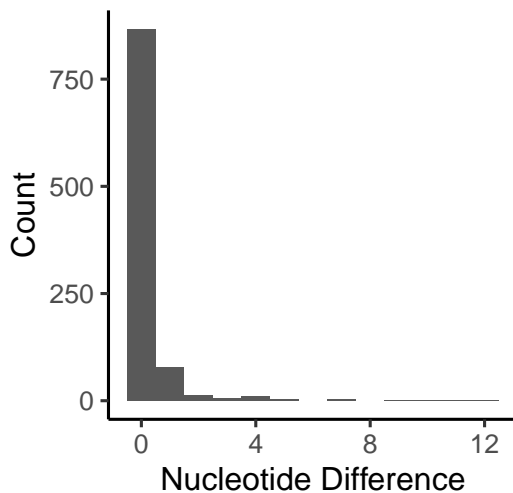
IGHV1-2*04

229 sequences assigned
211 (92.1%) exact matches, in which:
199 unique CDR3
6 unique J



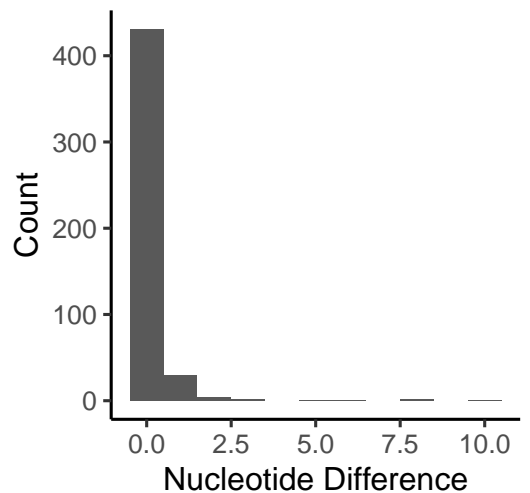
IGHV1-18*01

991 sequences assigned
867 (87.5%) exact matches, in which:
837 unique CDR3
6 unique J



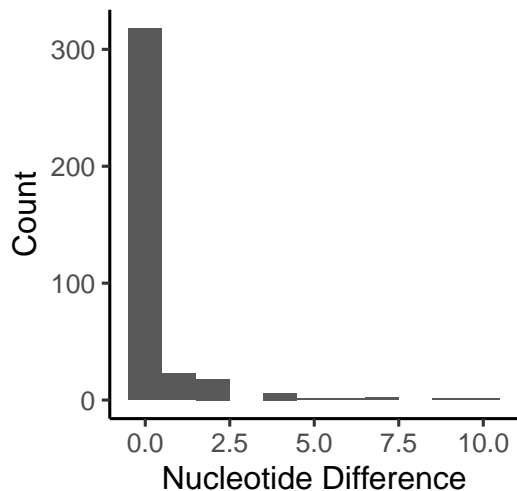
IGHV1-46*01

471 sequences assigned
431 (91.5%) exact matches, in which:
418 unique CDR3
6 unique J



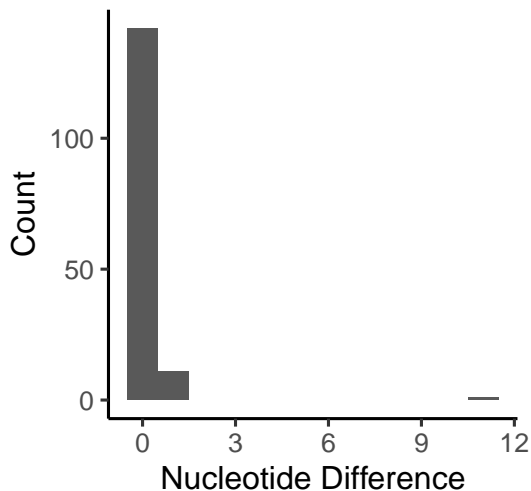
IGHV1-3*01

371 sequences assigned
318 (85.7%) exact matches, in which:
309 unique CDR3
6 unique J



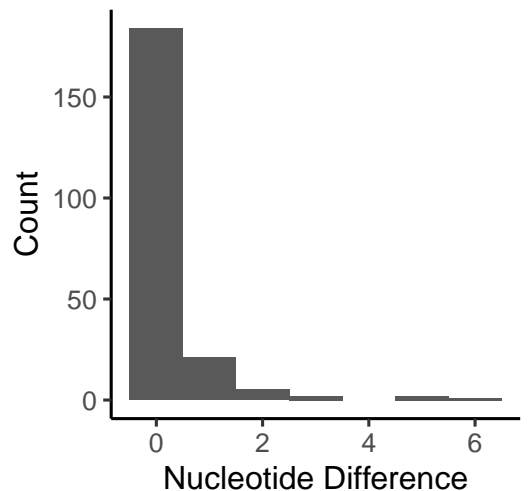
IGHV1-24*01

154 sequences assigned
142 (92.2%) exact matches, in which:
138 unique CDR3
6 unique J



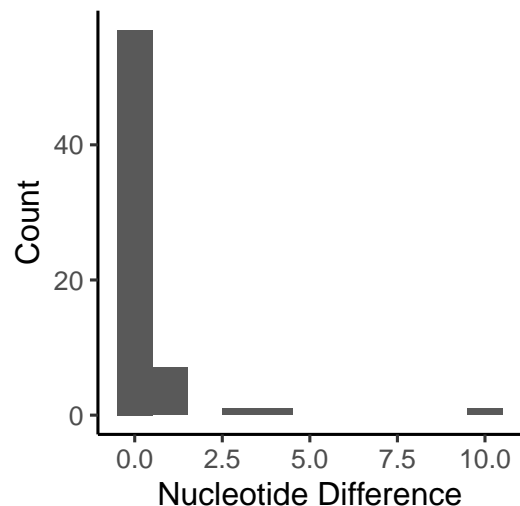
IGHV1-46*03

215 sequences assigned
184 (85.6%) exact matches, in which:
179 unique CDR3
6 unique J



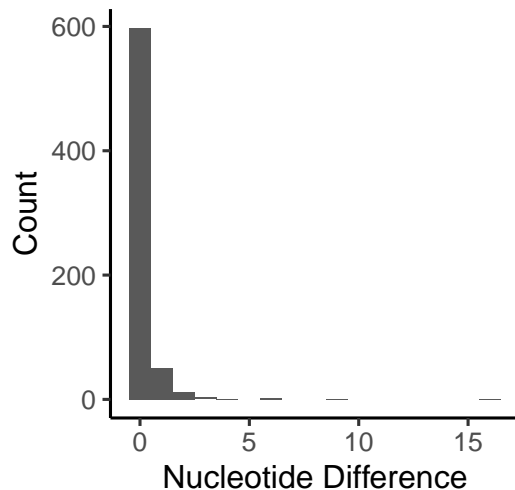
IGHV1-58*01

67 sequences assigned
57 (85.1%) exact matches, in which:
56 unique CDR3
6 unique J



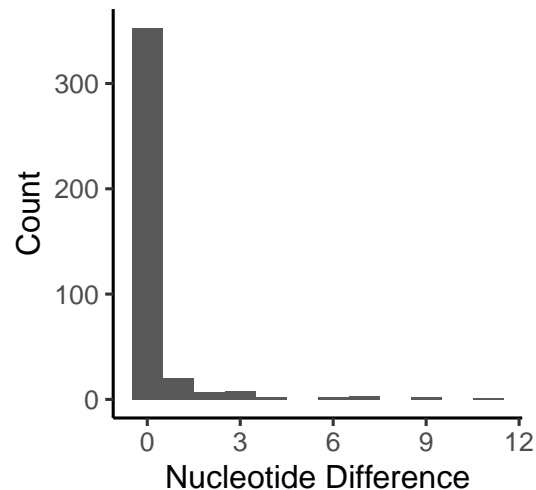
IGHV1-69*06

669 sequences assigned
598 (89.4%) exact matches, in which:
575 unique CDR3
6 unique J



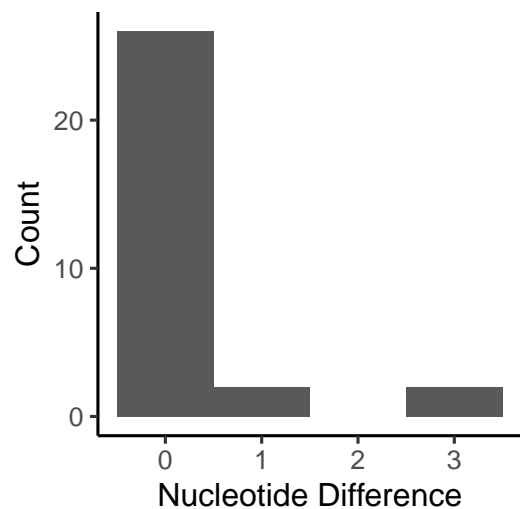
IGHV2-5*02

398 sequences assigned
353 (88.7%) exact matches, in which:
344 unique CDR3
6 unique J



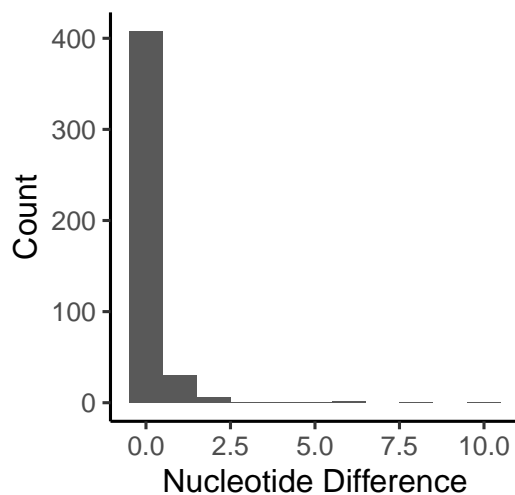
IGHV1-58*02

30 sequences assigned
26 (86.7%) exact matches, in which:
26 unique CDR3
4 unique J



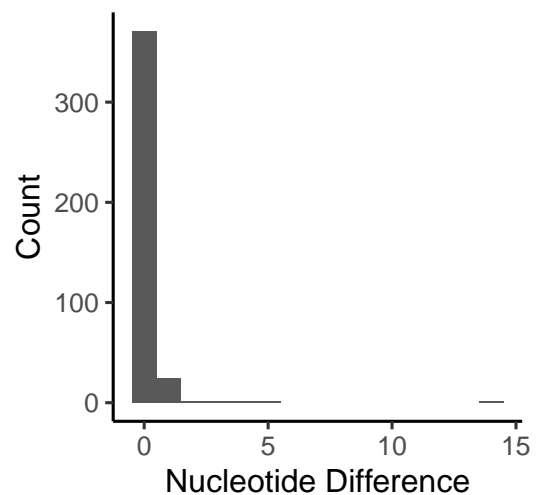
IGHV1-69*08_C191T

451 sequences assigned
408 (90.5%) exact matches, in which:
384 unique CDR3
6 unique J



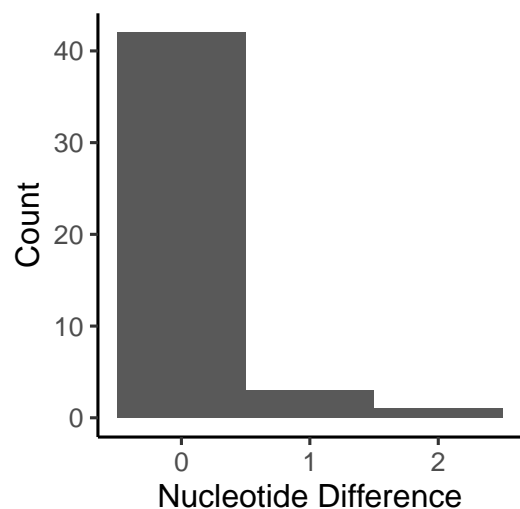
IGHV2-26*01

402 sequences assigned
371 (92.3%) exact matches, in which:
360 unique CDR3
6 unique J



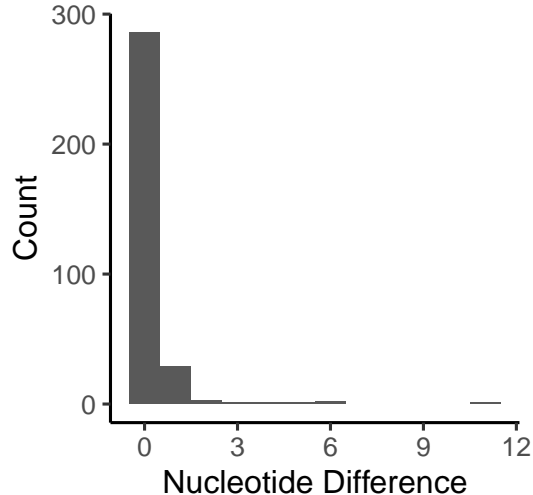
IGHV1-69-2*01

46 sequences assigned
42 (91.3%) exact matches, in which:
42 unique CDR3
6 unique J



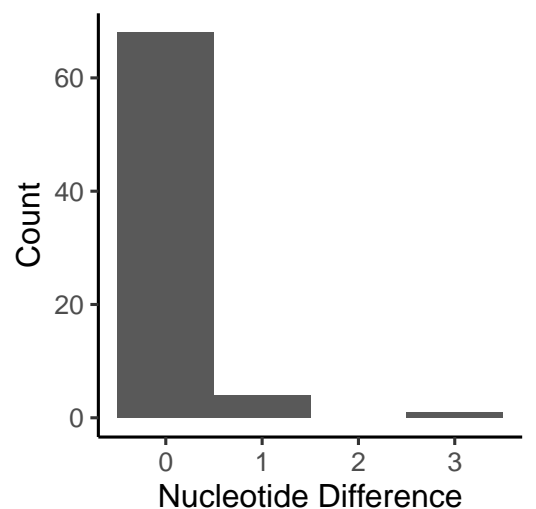
IGHV2-5*01

324 sequences assigned
286 (88.3%) exact matches, in which:
279 unique CDR3
6 unique J



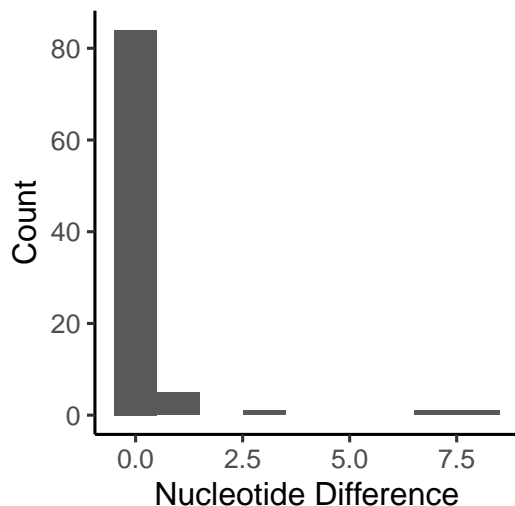
IGHV2-70*01

73 sequences assigned
68 (93.2%) exact matches, in which:
68 unique CDR3
5 unique J



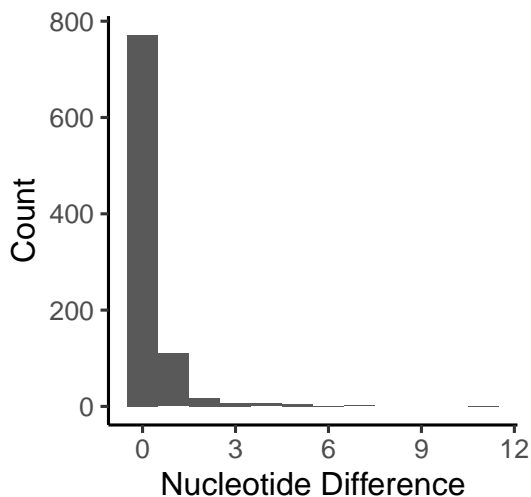
IGHV2-70*15

92 sequences assigned
84 (91.3%) exact matches, in which:
83 unique CDR3
5 unique J



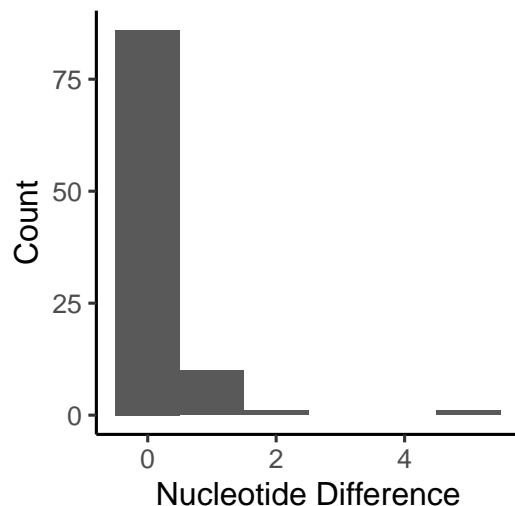
IGHV3-9*01

922 sequences assigned
772 (83.7%) exact matches, in which:
718 unique CDR3
6 unique J



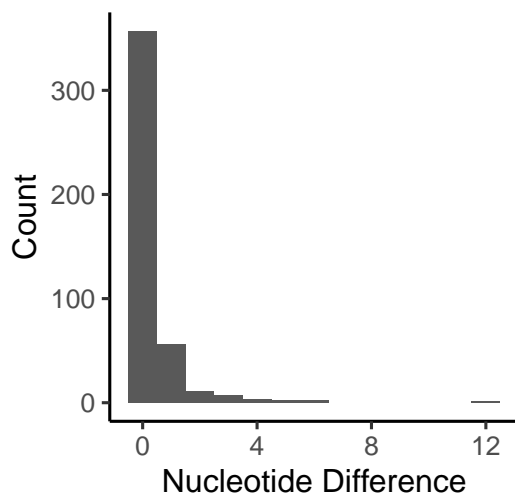
IGHV3-13*01

98 sequences assigned
86 (87.8%) exact matches, in which:
80 unique CDR3
5 unique J



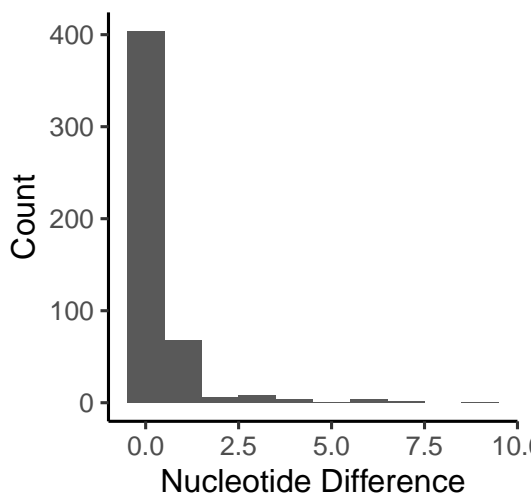
IGHV3-7*01

439 sequences assigned
357 (81.3%) exact matches, in which:
338 unique CDR3
6 unique J



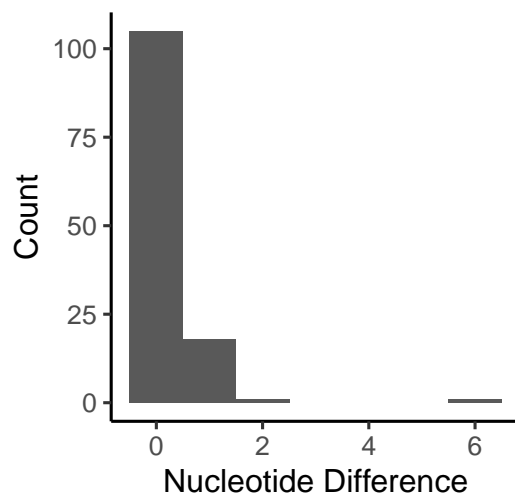
IGHV3-11*01

498 sequences assigned
404 (81.1%) exact matches, in which:
389 unique CDR3
6 unique J



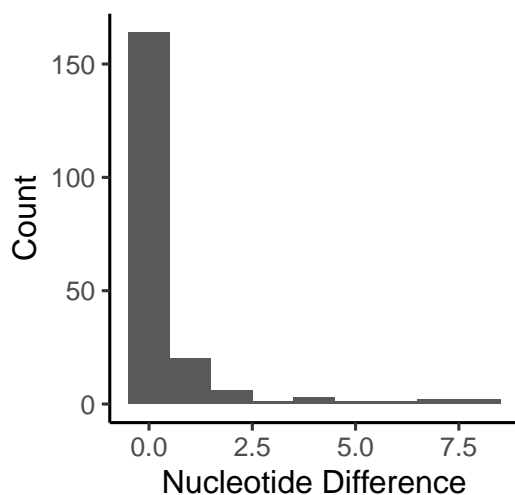
IGHV3-13*04

125 sequences assigned
105 (84%) exact matches, in which:
99 unique CDR3
6 unique J



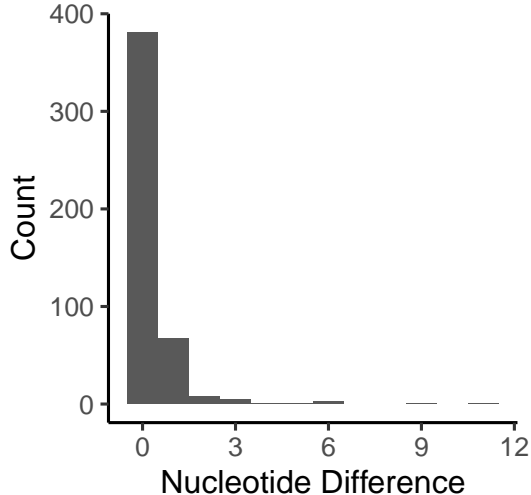
IGHV3-7*04

200 sequences assigned
164 (82%) exact matches, in which:
157 unique CDR3
6 unique J



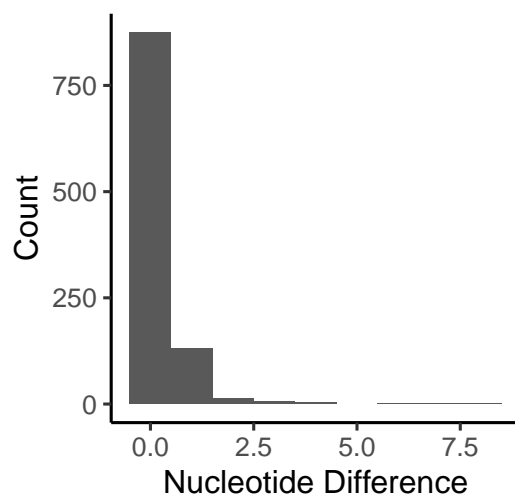
IGHV3-11*05

468 sequences assigned
381 (81.4%) exact matches, in which:
360 unique CDR3
6 unique J



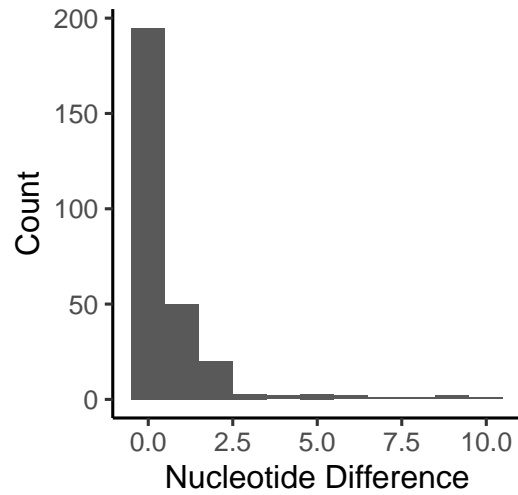
IGHV3-15*01

1031 sequences assigned
875 (84.9%) exact matches, in which:
826 unique CDR3
6 unique J



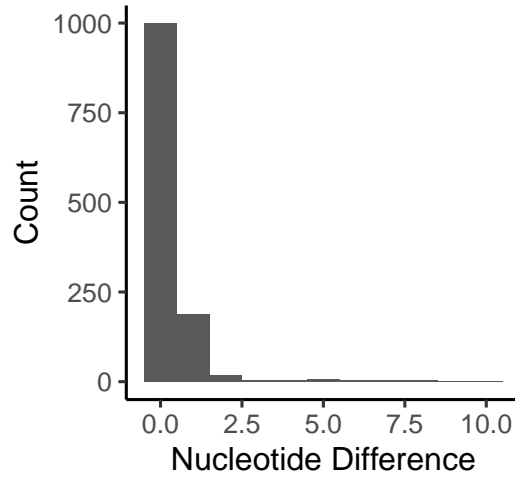
IGHV3-20*04

280 sequences assigned
195 (69.6%) exact matches, in which:
179 unique CDR3
6 unique J



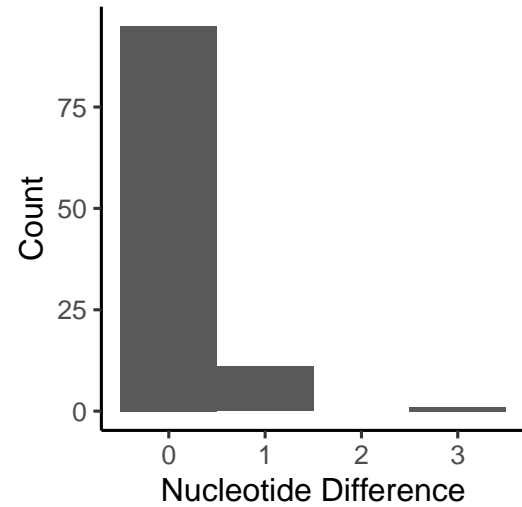
IGHV3-33*01

1237 sequences assigned
999 (80.8%) exact matches, in which:
946 unique CDR3
6 unique J



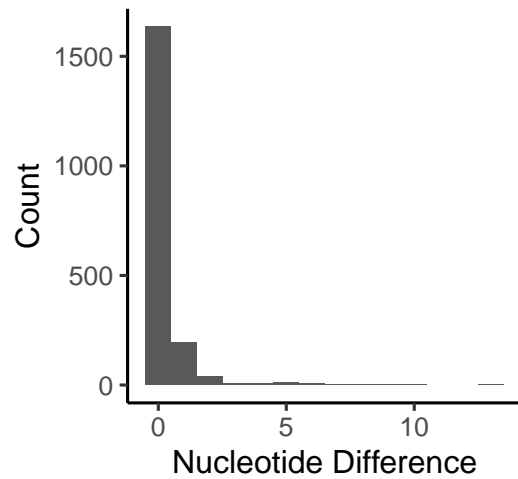
IGHV3-43*01

107 sequences assigned
95 (88.8%) exact matches, in which:
91 unique CDR3
6 unique J



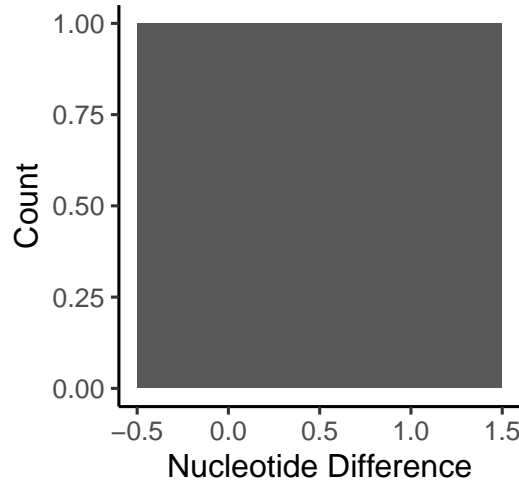
IGHV3-21*01

1915 sequences assigned
1635 (85.4%) exact matches, in which:
1541 unique CDR3
6 unique J



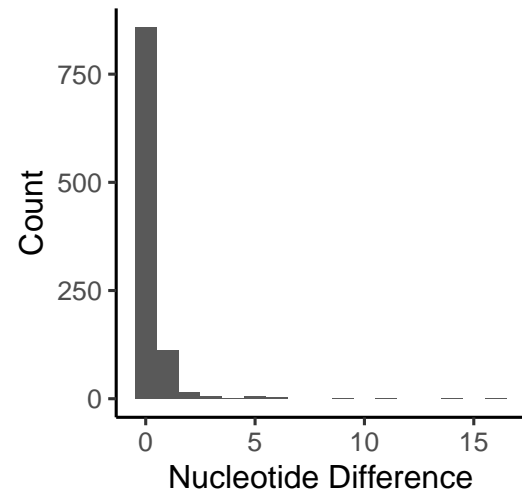
IGHV3-35*01

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



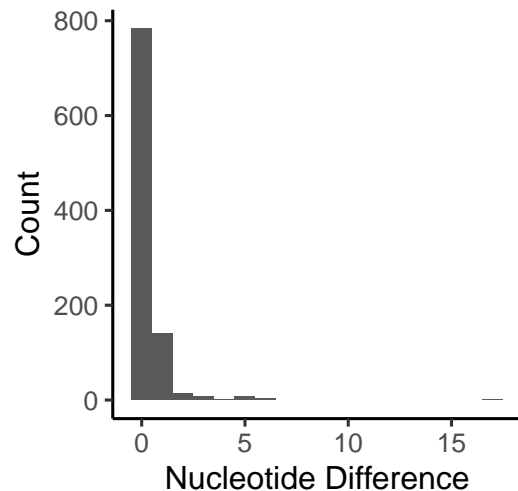
IGHV3-48*02

1005 sequences assigned
859 (85.5%) exact matches, in which:
802 unique CDR3
6 unique J



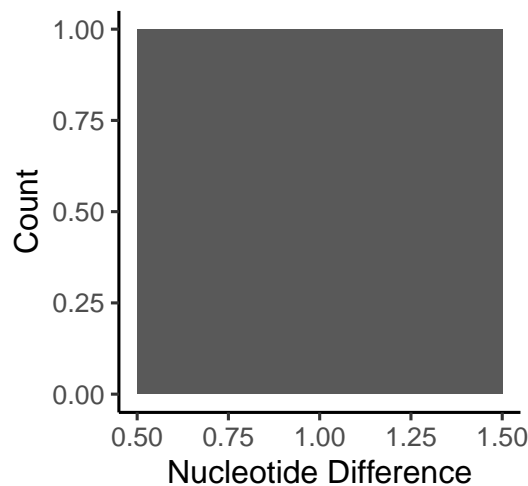
IGHV3-30-3*01

960 sequences assigned
784 (81.7%) exact matches, in which:
739 unique CDR3
6 unique J



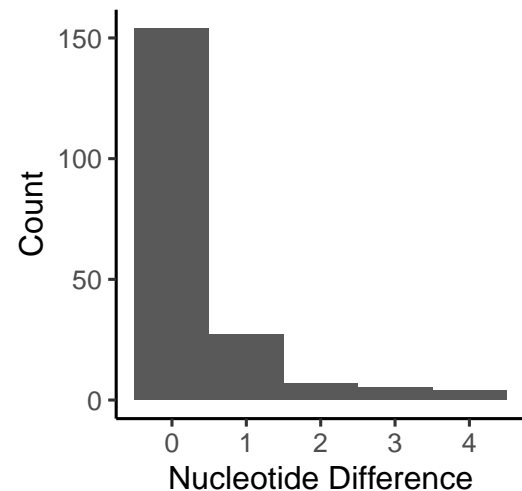
IGHV3-38-3*01

1 sequences assigned
No exact matches.



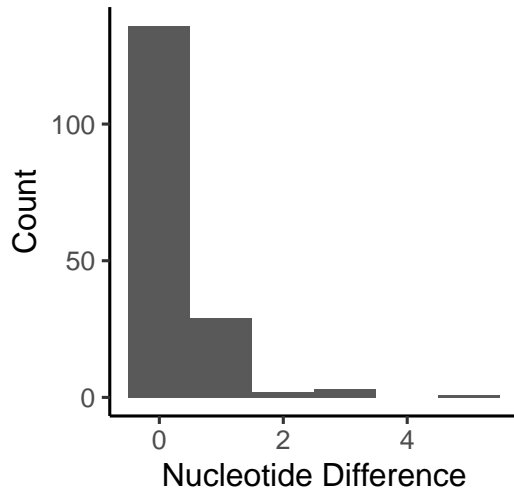
IGHV3-49*04

197 sequences assigned
154 (78.2%) exact matches, in which:
149 unique CDR3
6 unique J



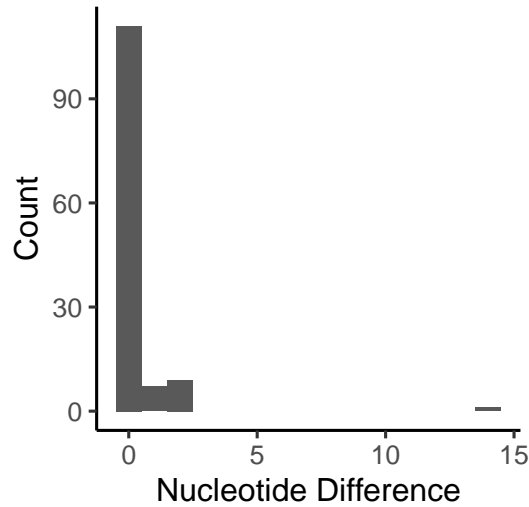
IGHV3-49*05

171 sequences assigned
136 (79.5%) exact matches, in which:
132 unique CDR3
6 unique J



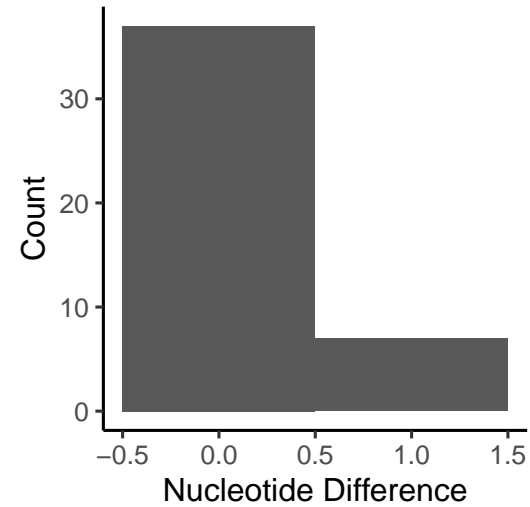
IGHV3-64*01

128 sequences assigned
111 (86.7%) exact matches, in which:
102 unique CDR3
5 unique J



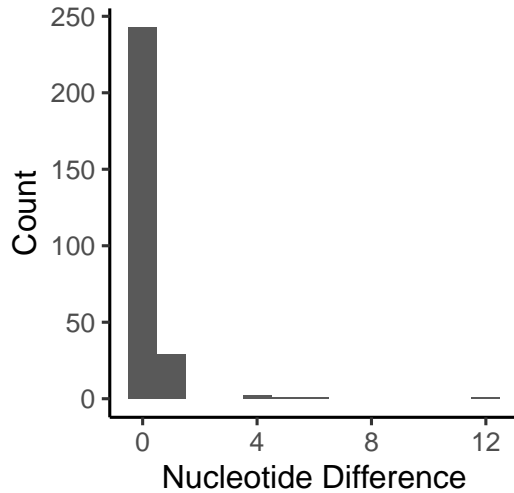
IGHV3-72*01

44 sequences assigned
37 (84.1%) exact matches, in which:
37 unique CDR3
5 unique J



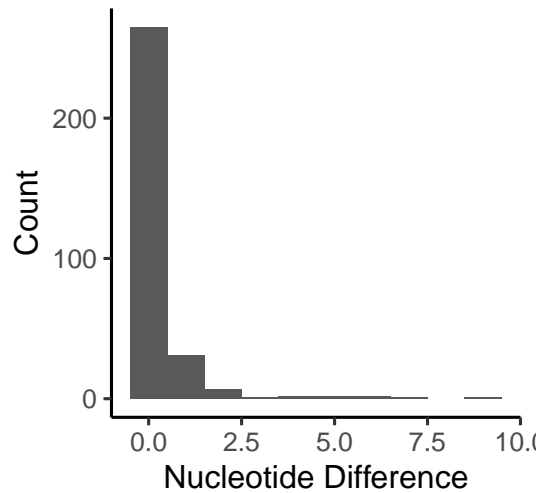
IGHV3-53*01

277 sequences assigned
243 (87.7%) exact matches, in which:
231 unique CDR3
6 unique J



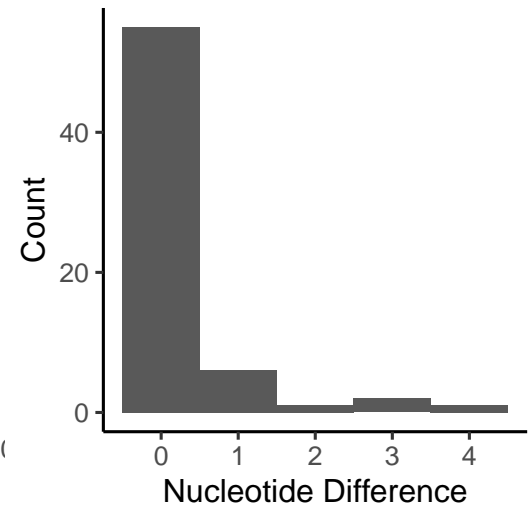
IGHV3-66*01

312 sequences assigned
265 (84.9%) exact matches, in which:
246 unique CDR3
6 unique J



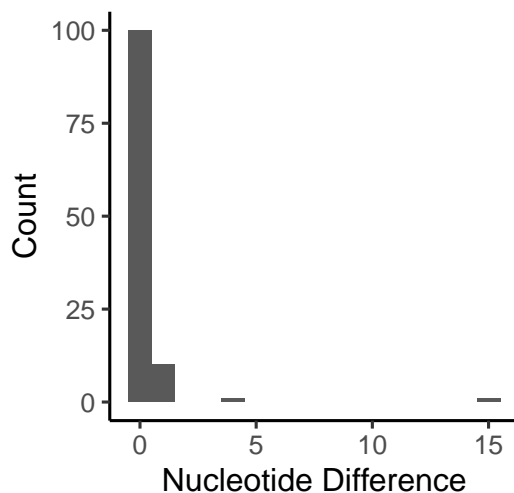
IGHV3-73*01

65 sequences assigned
55 (84.6%) exact matches, in which:
50 unique CDR3
4 unique J



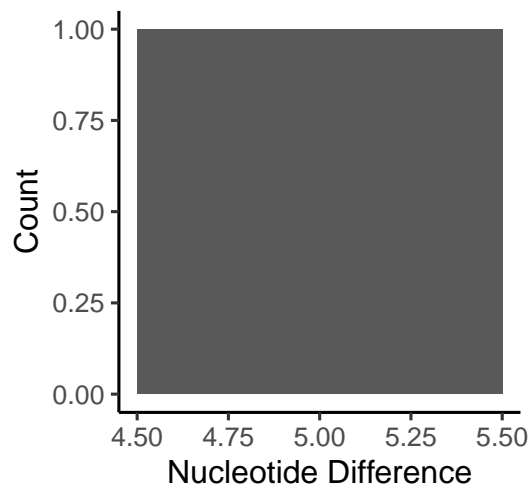
IGHV3-53*04

112 sequences assigned
100 (89.3%) exact matches, in which:
97 unique CDR3
6 unique J



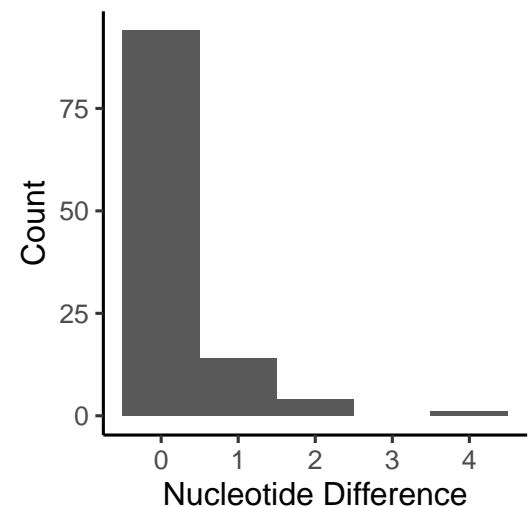
IGHV3-71*03

1 sequences assigned
No exact matches.



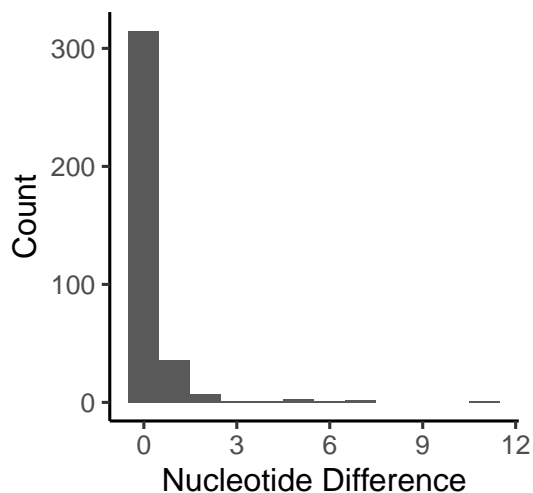
IGHV3-73*02

113 sequences assigned
94 (83.2%) exact matches, in which:
89 unique CDR3
6 unique J



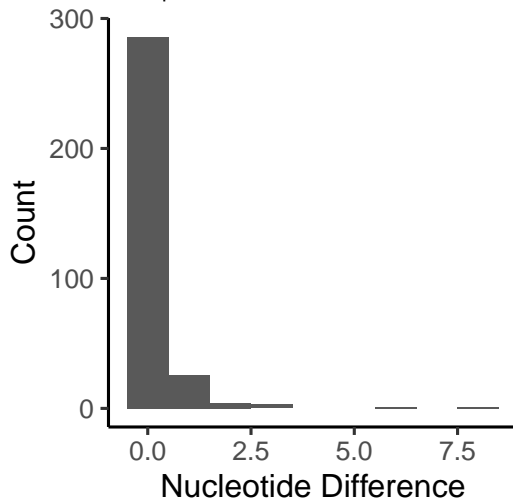
IGHV3-74*01

367 sequences assigned
315 (85.8%) exact matches, in which:
295 unique CDR3
6 unique J



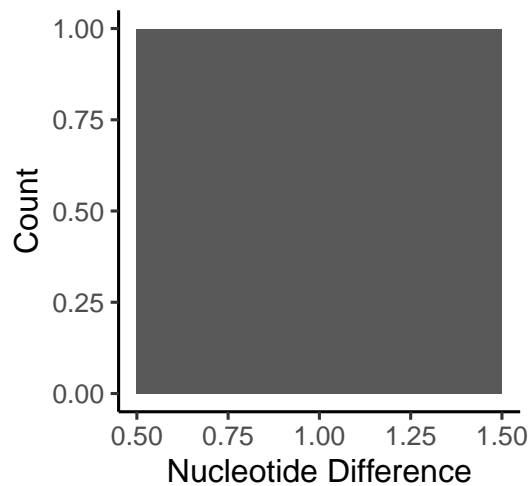
IGHV4-4*02

321 sequences assigned
286 (89.1%) exact matches, in which:
277 unique CDR3
6 unique J



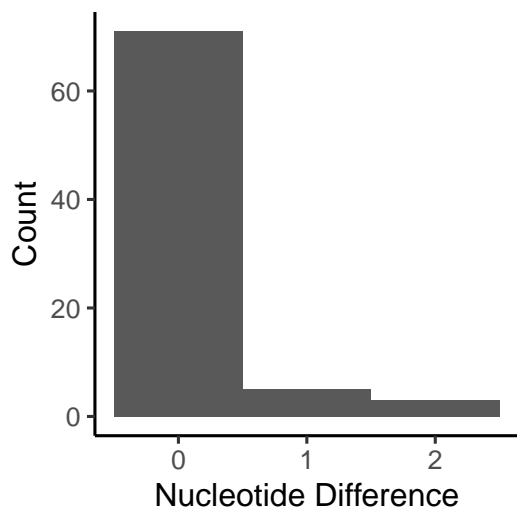
IGHV4-28*04

1 sequences assigned
No exact matches.



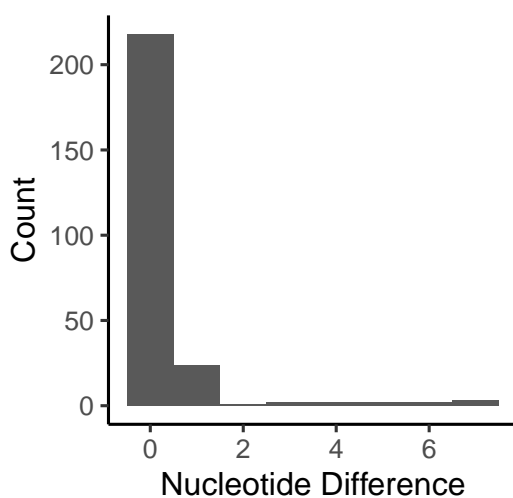
IGHV3-43D*03

79 sequences assigned
71 (89.9%) exact matches, in which:
69 unique CDR3
5 unique J



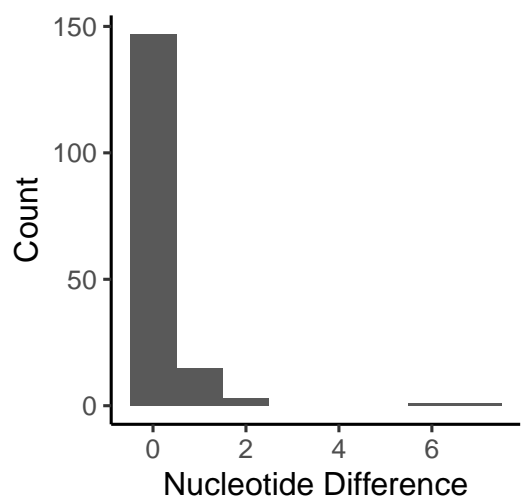
IGHV4-4*07

254 sequences assigned
218 (85.8%) exact matches, in which:
213 unique CDR3
6 unique J



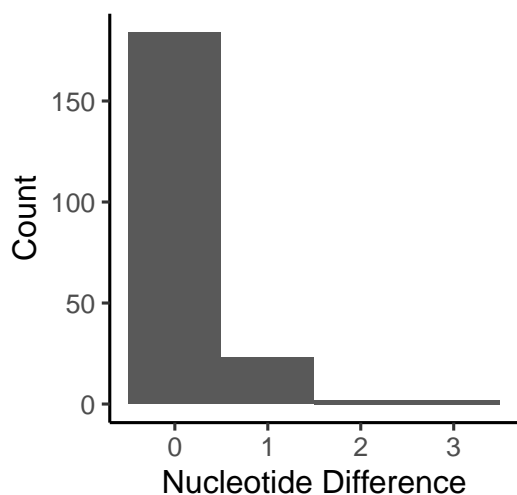
IGHV4-30-4*01

167 sequences assigned
147 (88%) exact matches, in which:
143 unique CDR3
6 unique J



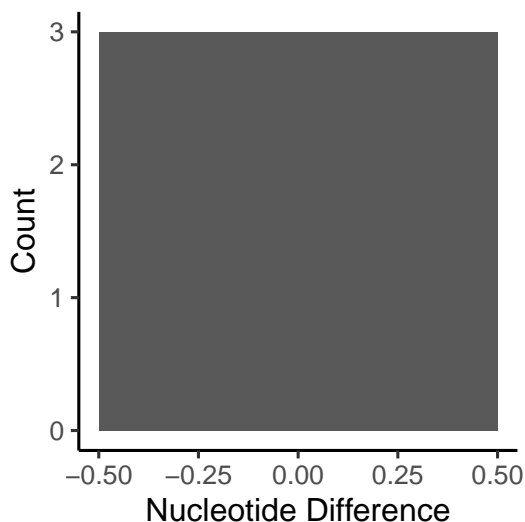
IGHV3-64D*06

211 sequences assigned
184 (87.2%) exact matches, in which:
172 unique CDR3
6 unique J



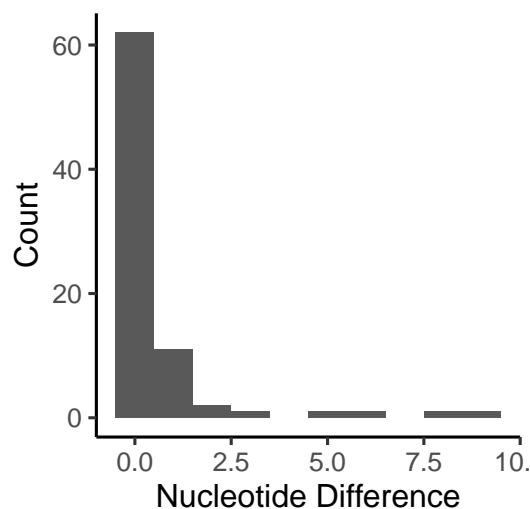
IGHV4-28*01

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



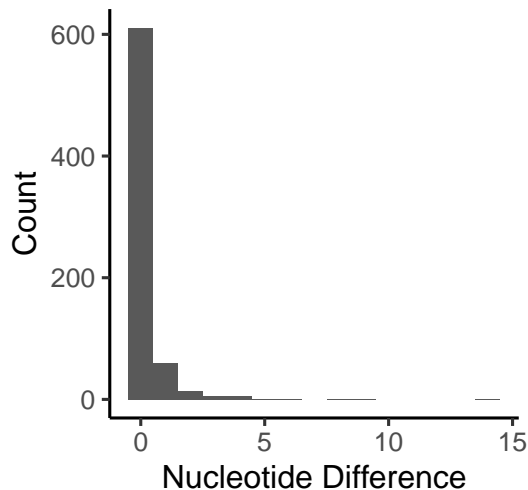
IGHV4-30-2*01

80 sequences assigned
62 (77.5%) exact matches, in which:
62 unique CDR3
6 unique J



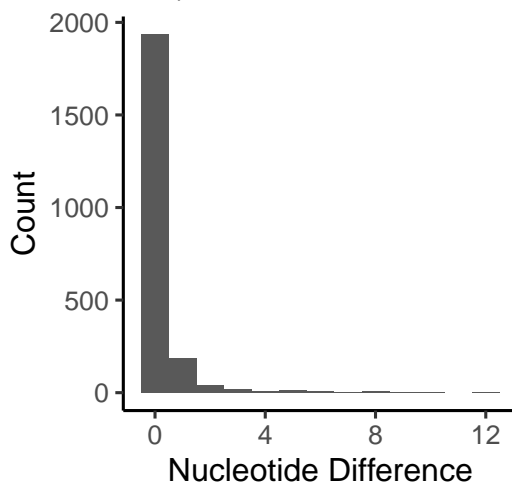
IGHV4–31*03

701 sequences assigned
611 (87.2%) exact matches, in which:
586 unique CDR3
6 unique J



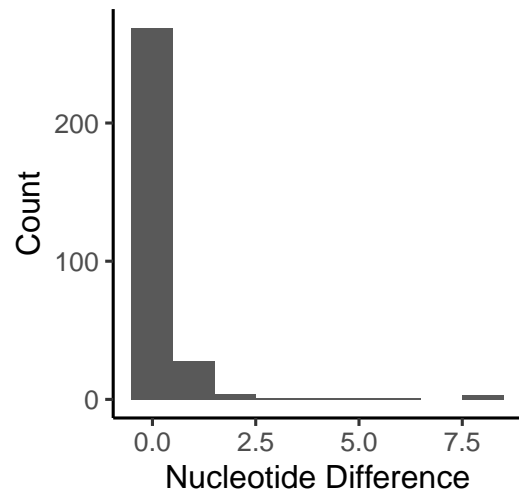
IGHV4–39*01

2231 sequences assigned
1935 (86.7%) exact matches, in which:
1843 unique CDR3
6 unique J



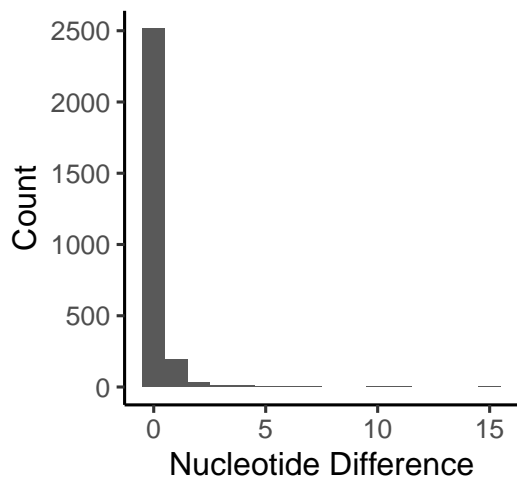
IGHV4–59*08

308 sequences assigned
269 (87.3%) exact matches, in which:
264 unique CDR3
6 unique J



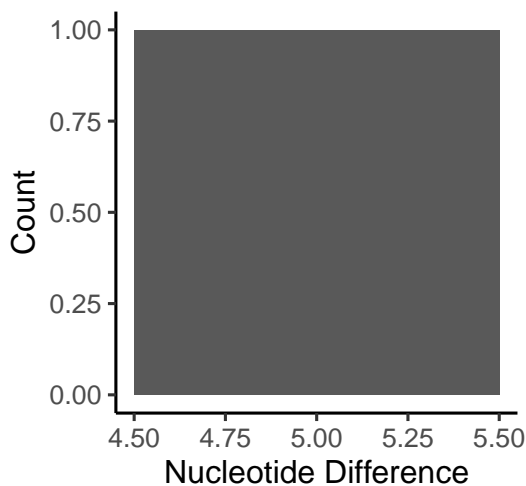
IGHV4–34*01

2790 sequences assigned
2514 (90.1%) exact matches, in which:
2377 unique CDR3
6 unique J



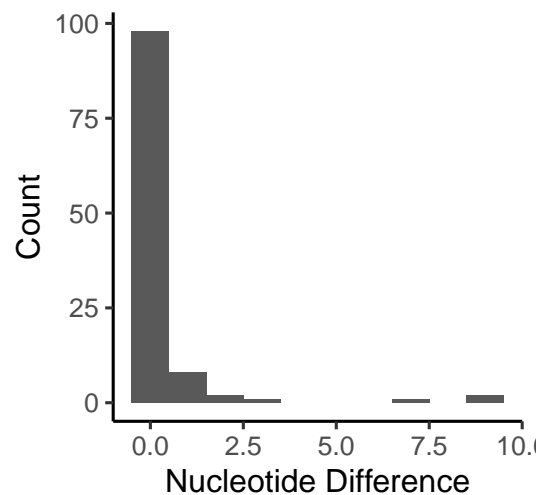
IGHV4–55*08

1 sequences assigned
No exact matches.



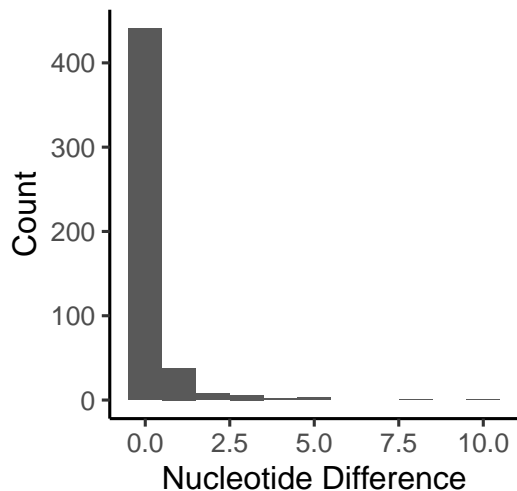
IGHV4–61*01

112 sequences assigned
98 (87.5%) exact matches, in which:
96 unique CDR3
6 unique J



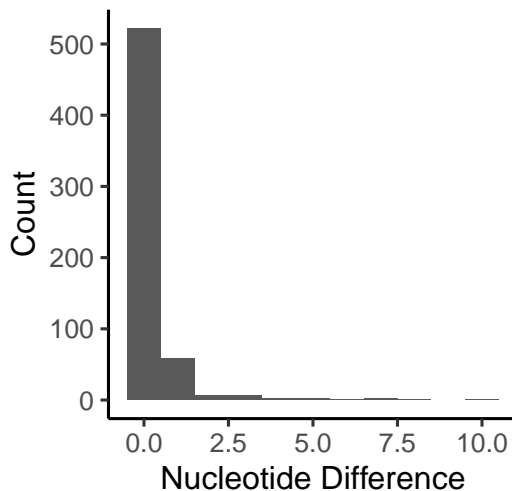
IGHV4–38–2*02

501 sequences assigned
441 (88%) exact matches, in which:
422 unique CDR3
6 unique J



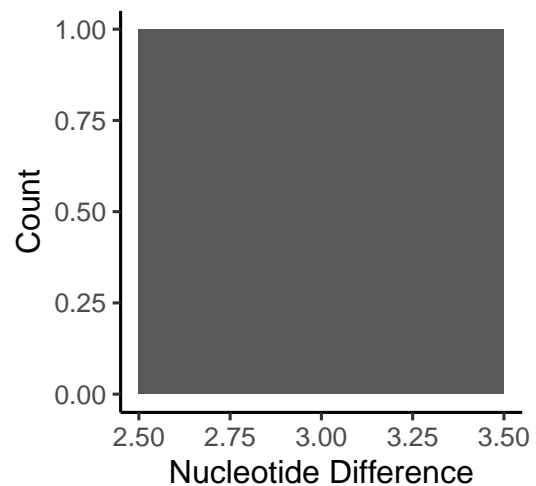
IGHV4–59*01

604 sequences assigned
522 (86.4%) exact matches, in which:
518 unique CDR3
6 unique J



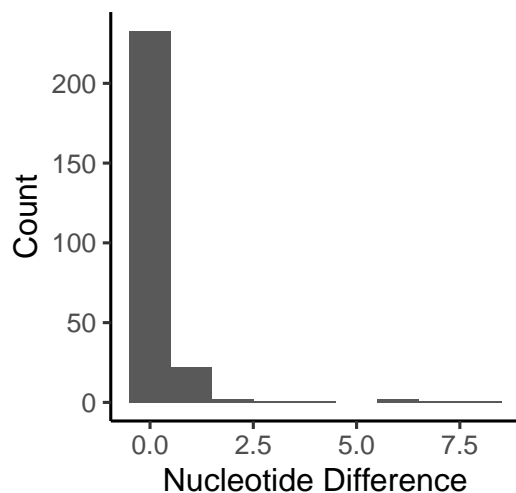
IGHV1/OR15–1*01

1 sequences assigned
No exact matches.



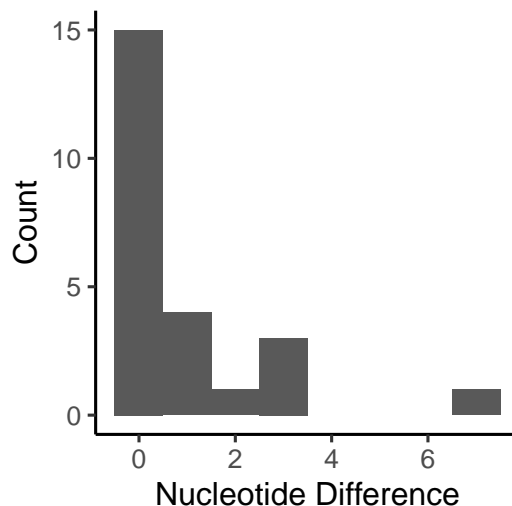
IGHV5-10-1*01

263 sequences assigned
233 (88.6%) exact matches, in which:
225 unique CDR3
6 unique J



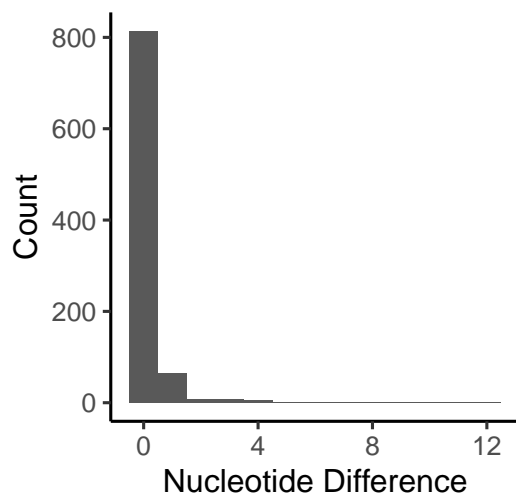
IGHV7-4-1*01

24 sequences assigned
15 (62.5%) exact matches, in which:
15 unique CDR3
5 unique J



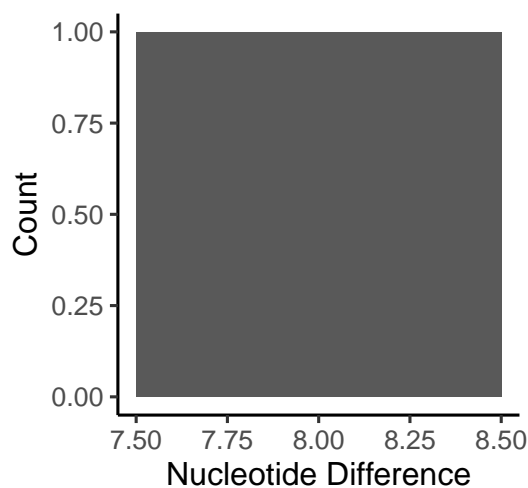
IGHV5-51*01

908 sequences assigned
814 (89.6%) exact matches, in which:
777 unique CDR3
6 unique J



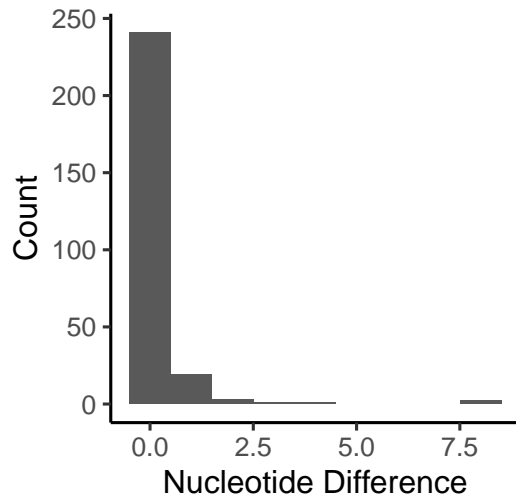
IGHV7-81*01

1 sequences assigned
No exact matches.



IGHV6-1*01

267 sequences assigned
241 (90.3%) exact matches, in which:
226 unique CDR3
6 unique J





Warning – no inferred sequences found.