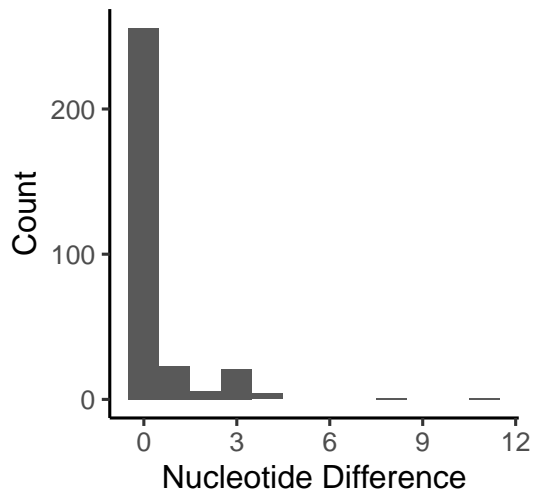


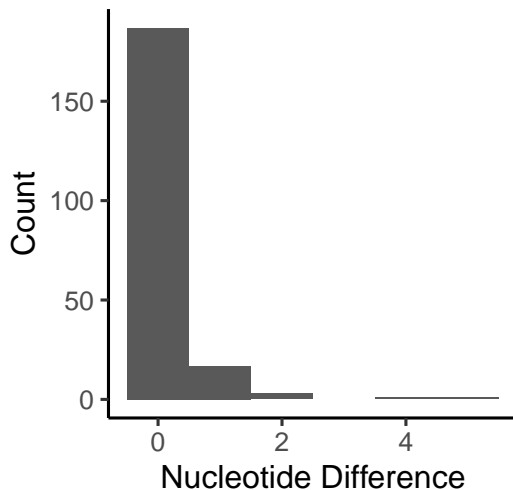
IGHV1-2*04

319 sequences assigned
256 (80.3%) exact matches, in which:
248 unique CDR3
7 unique J



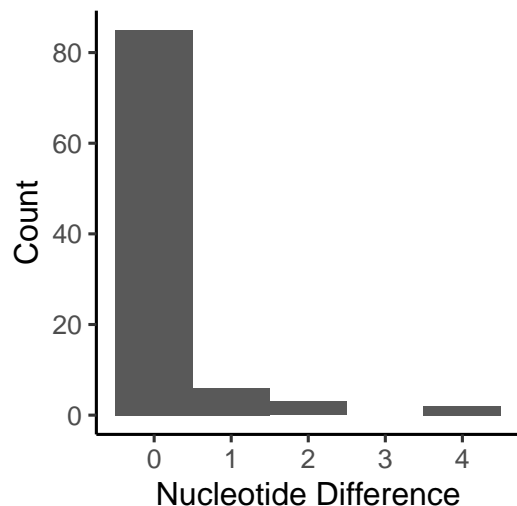
IGHV1-24*01

209 sequences assigned
187 (89.5%) exact matches, in which:
185 unique CDR3
6 unique J



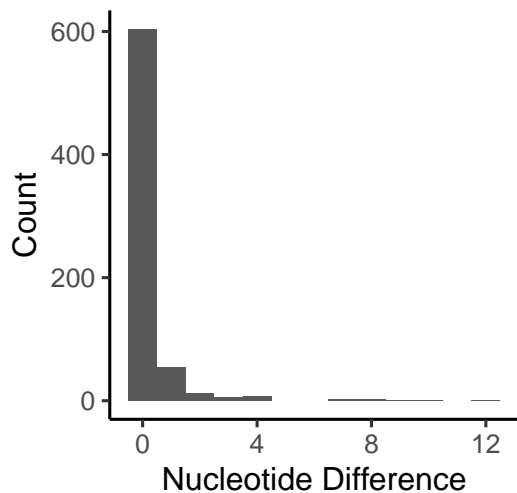
IGHV1-58*02

96 sequences assigned
85 (88.5%) exact matches, in which:
83 unique CDR3
7 unique J



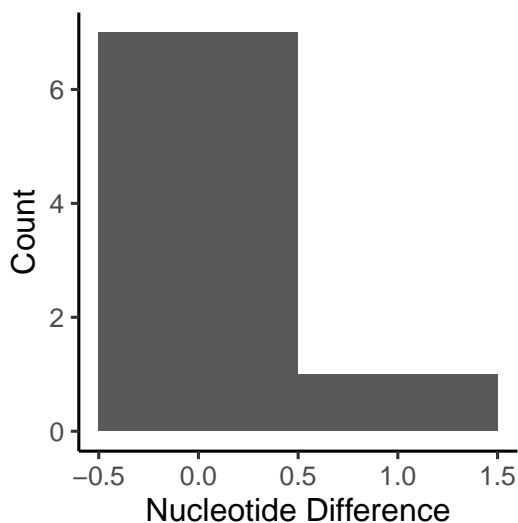
IGHV1-3*01

694 sequences assigned
604 (87%) exact matches, in which:
587 unique CDR3
7 unique J



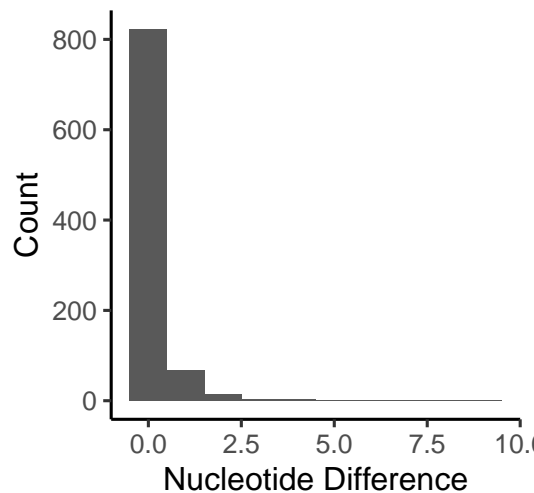
IGHV1-45*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
5 unique J



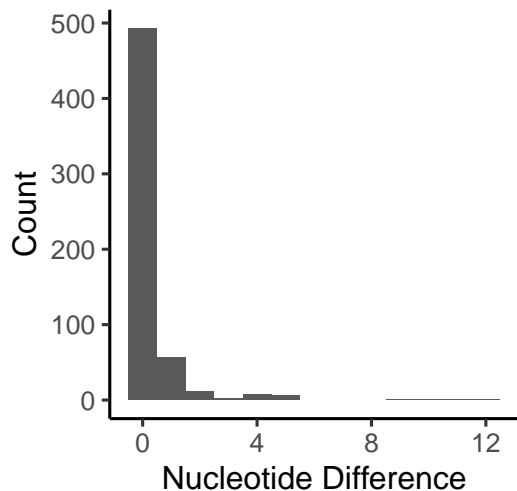
IGHV1-69*04

923 sequences assigned
823 (89.2%) exact matches, in which:
793 unique CDR3
7 unique J



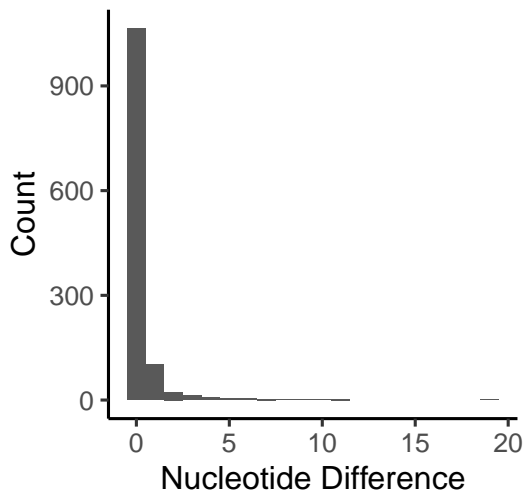
IGHV1-18*01

585 sequences assigned
493 (84.3%) exact matches, in which:
478 unique CDR3
6 unique J



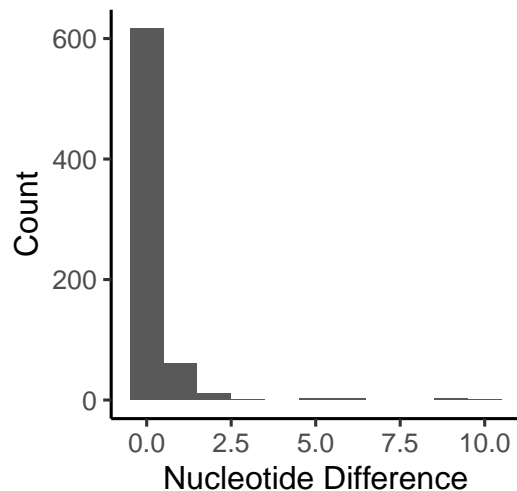
IGHV1-46*01

1232 sequences assigned
1065 (86.4%) exact matches, in which:
1019 unique CDR3
7 unique J



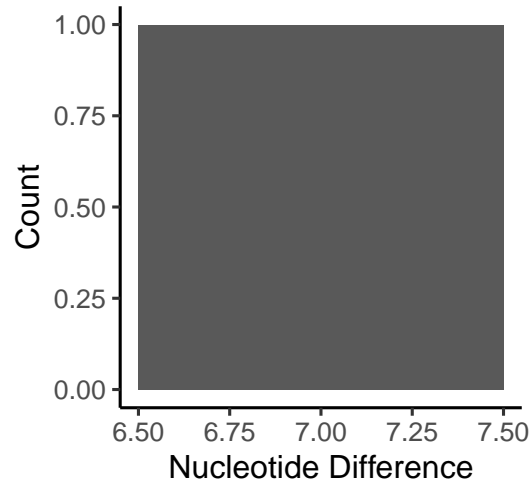
IGHV1-69*08_C191T

698 sequences assigned
617 (88.4%) exact matches, in which:
591 unique CDR3
7 unique J



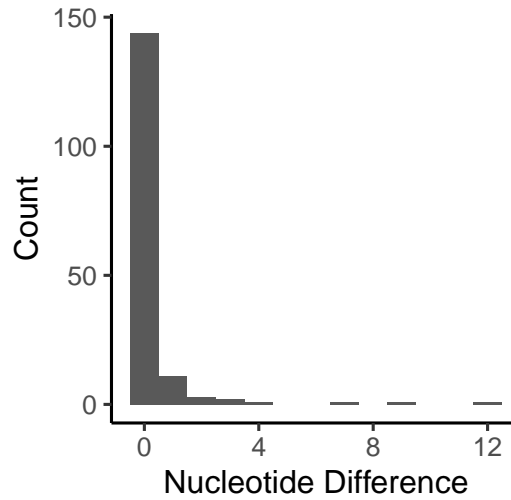
IGHV1-69D*01

1 sequences assigned
No exact matches.



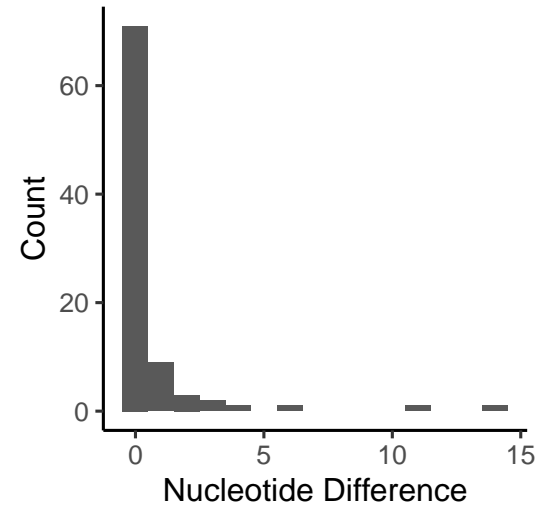
IGHV2-70*15

165 sequences assigned
144 (87.3%) exact matches, in which:
144 unique CDR3
6 unique J



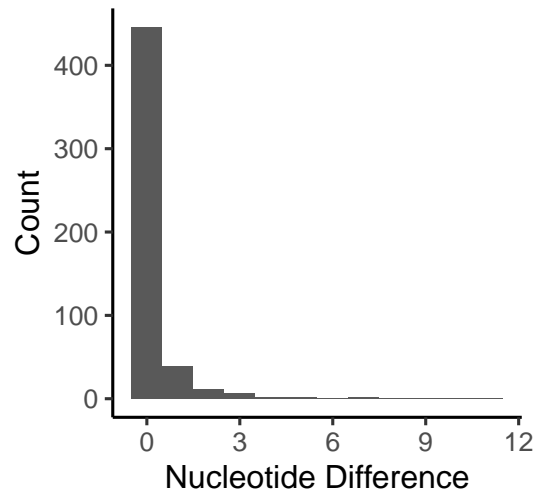
IGHV3-13*01_G290A_T3

89 sequences assigned
71 (79.8%) exact matches, in which:
68 unique CDR3
5 unique J



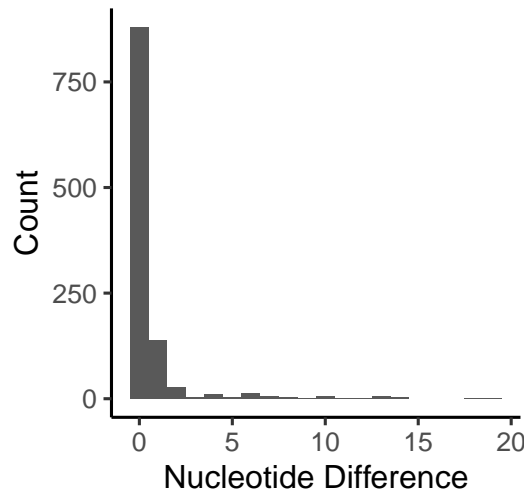
IGHV2-5*02

514 sequences assigned
446 (86.8%) exact matches, in which:
432 unique CDR3
7 unique J



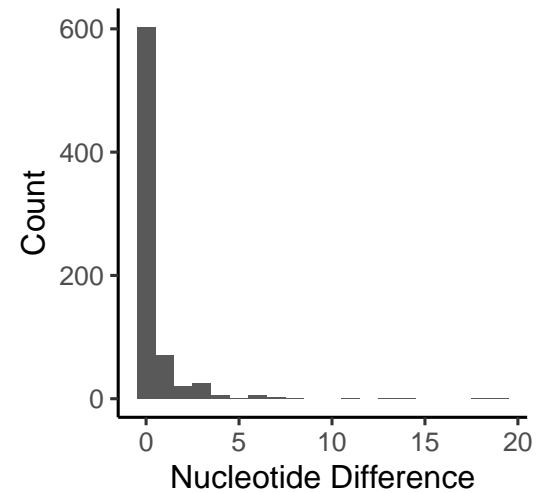
IGHV3-7*03

1128 sequences assigned
880 (78%) exact matches, in which:
839 unique CDR3
7 unique J



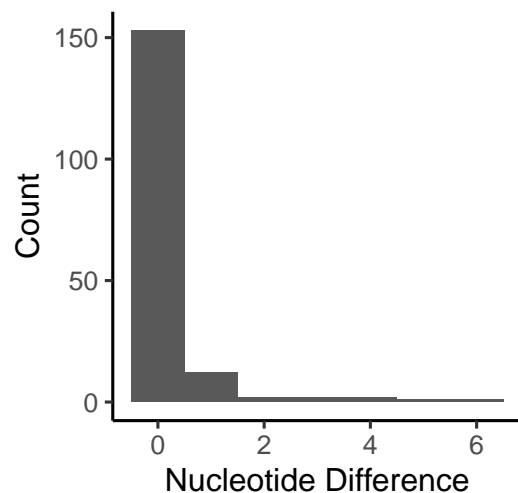
IGHV3-15*07

741 sequences assigned
603 (81.4%) exact matches, in which:
576 unique CDR3
6 unique J



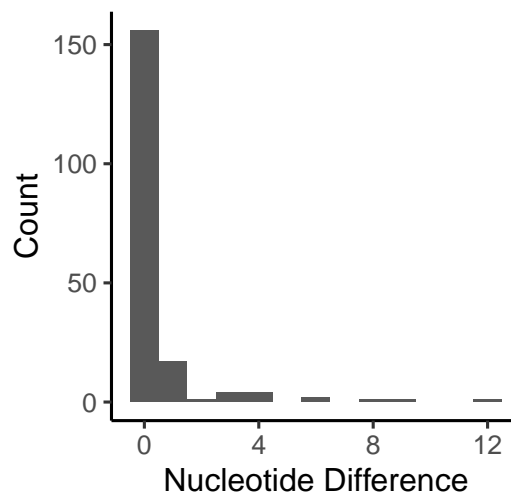
IGHV2-26*01

173 sequences assigned
153 (88.4%) exact matches, in which:
151 unique CDR3
5 unique J



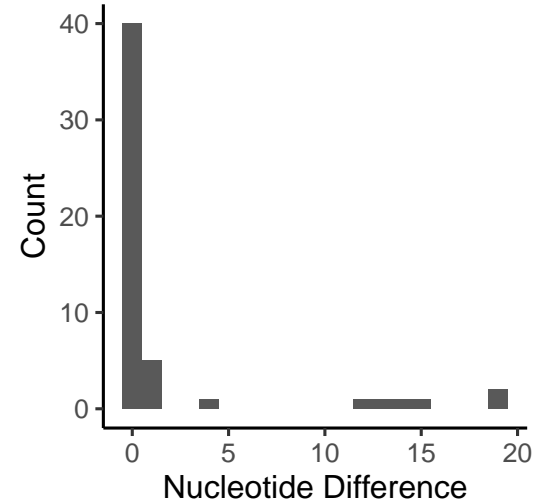
IGHV3-11*06

187 sequences assigned
156 (83.4%) exact matches, in which:
151 unique CDR3
6 unique J



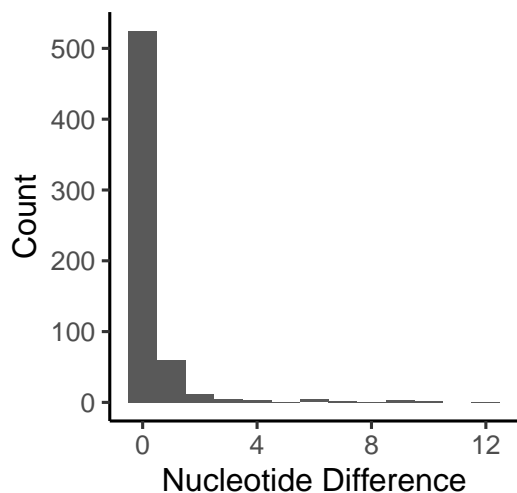
IGHV3-20*04

54 sequences assigned
40 (74.1%) exact matches, in which:
40 unique CDR3
5 unique J



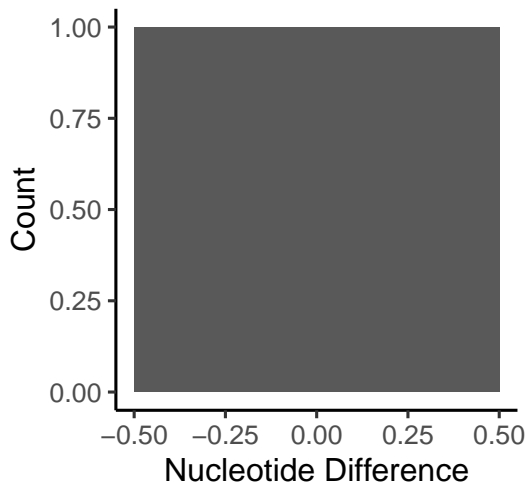
IGHV3-21*01

624 sequences assigned
525 (84.1%) exact matches, in which:
494 unique CDR3
6 unique J



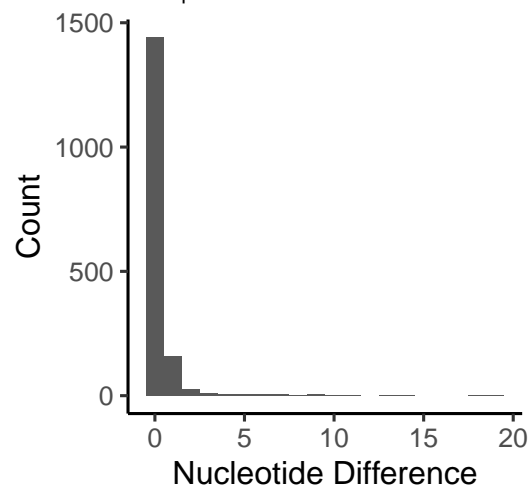
IGHV3-35*01

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



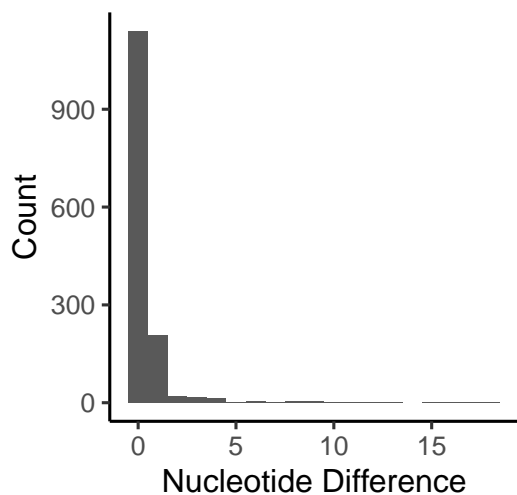
IGHV3-48*03

1683 sequences assigned
1441 (85.6%) exact matches, in which:
1377 unique CDR3
7 unique J



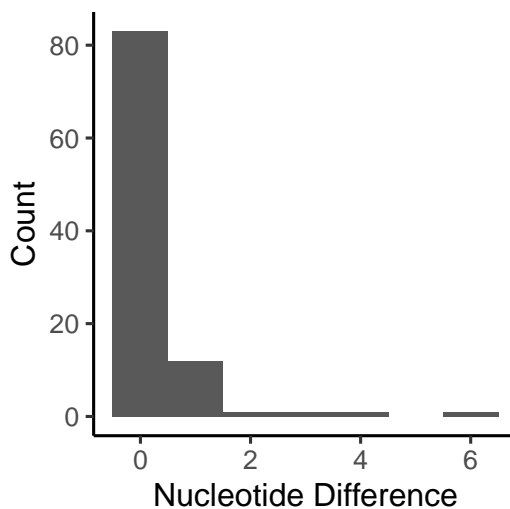
IGHV3-30-3*01

1430 sequences assigned
1140 (79.7%) exact matches, in which:
1098 unique CDR3
7 unique J



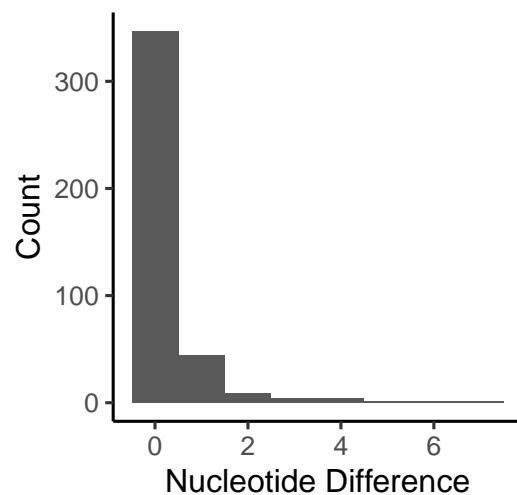
IGHV3-43*01

99 sequences assigned
83 (83.8%) exact matches, in which:
79 unique CDR3
6 unique J



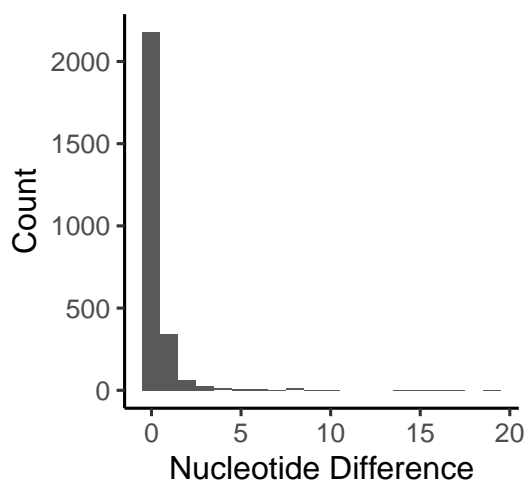
IGHV3-49*04

413 sequences assigned
347 (84%) exact matches, in which:
326 unique CDR3
7 unique J



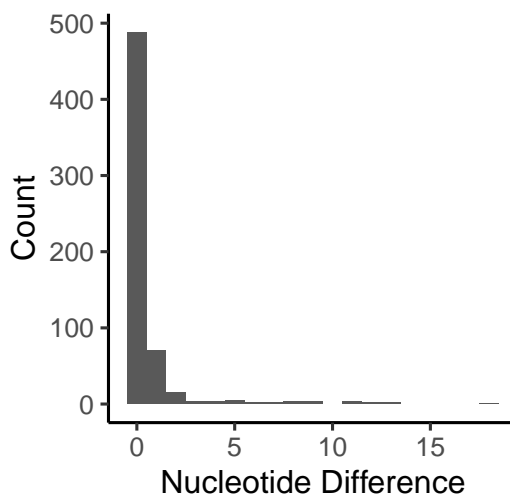
IGHV3-33*01

2681 sequences assigned
2179 (81.3%) exact matches, in which:
2061 unique CDR3
7 unique J



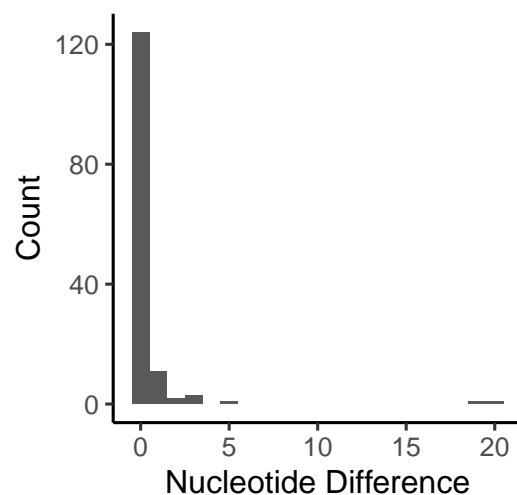
IGHV3-48*02

603 sequences assigned
488 (80.9%) exact matches, in which:
464 unique CDR3
6 unique J



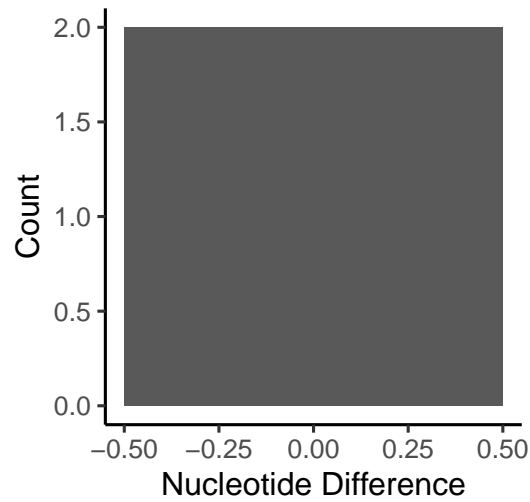
IGHV3-49*05

143 sequences assigned
124 (86.7%) exact matches, in which:
121 unique CDR3
6 unique J



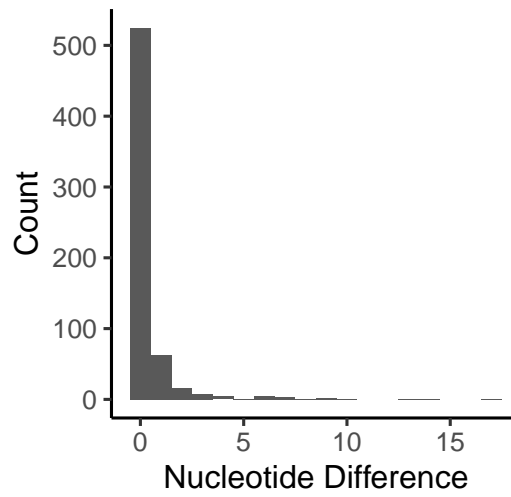
IGHV3-52*01

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



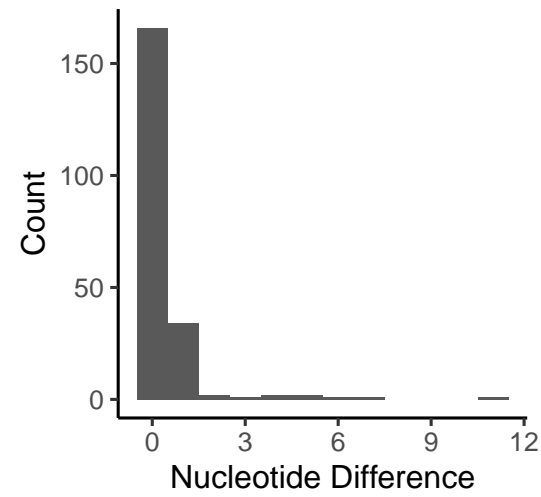
IGHV3-66*01

634 sequences assigned
525 (82.8%) exact matches, in which:
486 unique CDR3
7 unique J



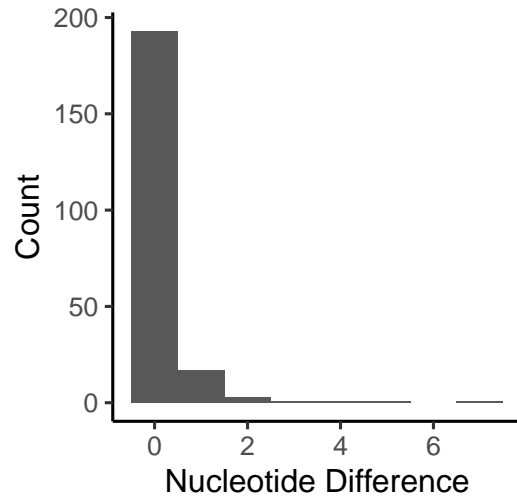
IGHV3-73*01

210 sequences assigned
166 (79%) exact matches, in which:
160 unique CDR3
6 unique J



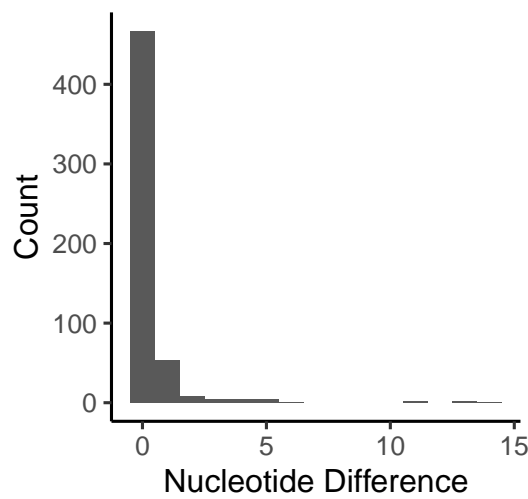
IGHV3-53*02

217 sequences assigned
193 (88.9%) exact matches, in which:
183 unique CDR3
6 unique J



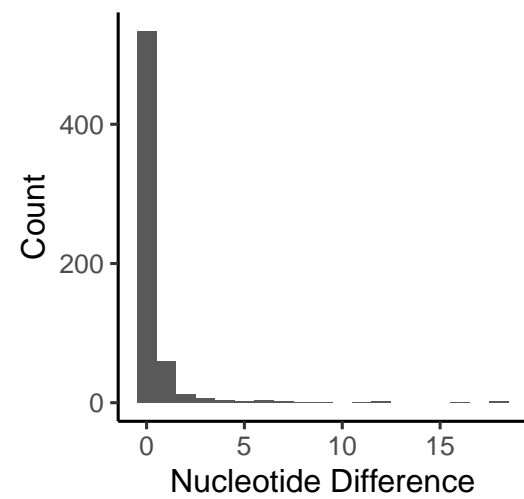
IGHV3-66*02

550 sequences assigned
467 (84.9%) exact matches, in which:
432 unique CDR3
7 unique J



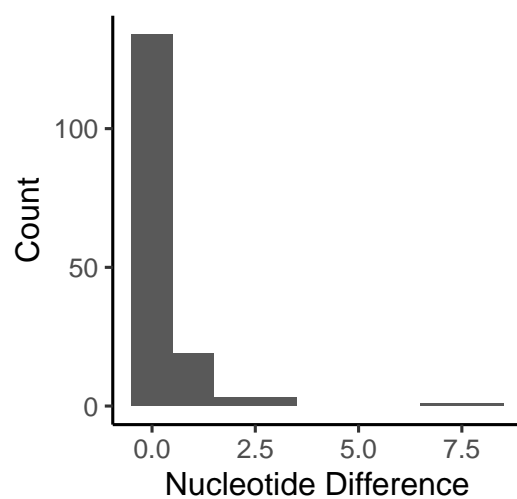
IGHV3-74*01

639 sequences assigned
534 (83.6%) exact matches, in which:
509 unique CDR3
7 unique J



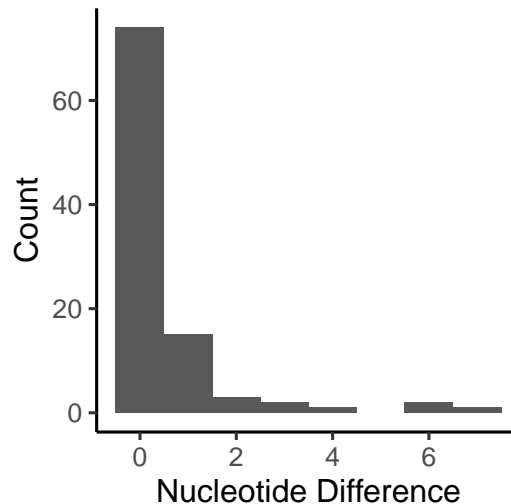
IGHV3-64*01

162 sequences assigned
134 (82.7%) exact matches, in which:
131 unique CDR3
7 unique J



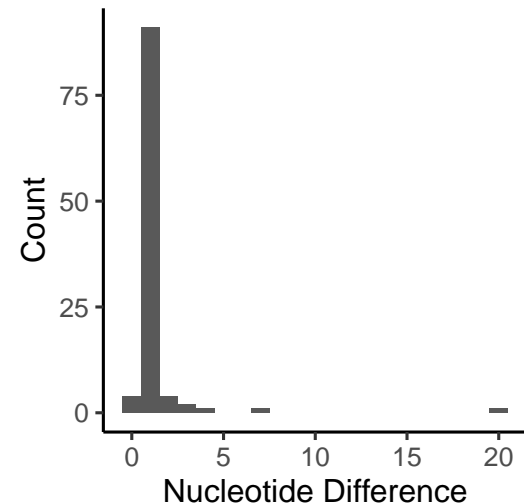
IGHV3-72*01

98 sequences assigned
74 (75.5%) exact matches, in which:
69 unique CDR3
6 unique J



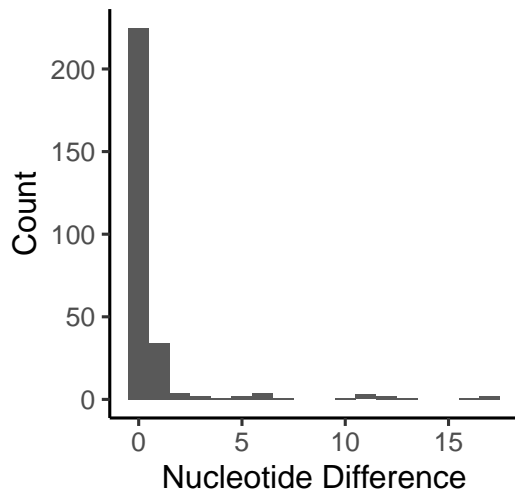
IGHV3-43D*04

104 sequences assigned
4 (3.8%) exact matches, in which:
4 unique CDR3
2 unique J



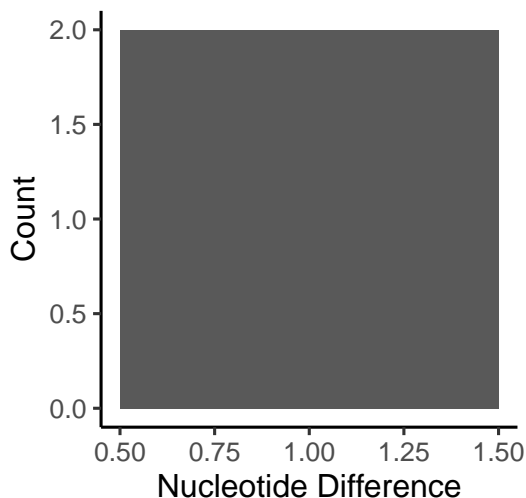
IGHV3–64D*06

285 sequences assigned
225 (78.9%) exact matches, in which:
213 unique CDR3
7 unique J



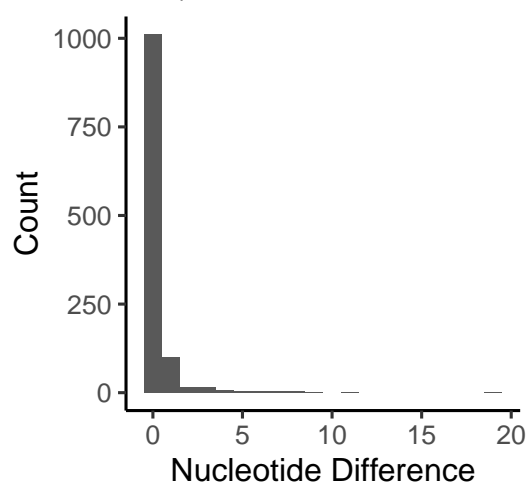
IGHV4–28*04

2 sequences assigned
No exact matches.



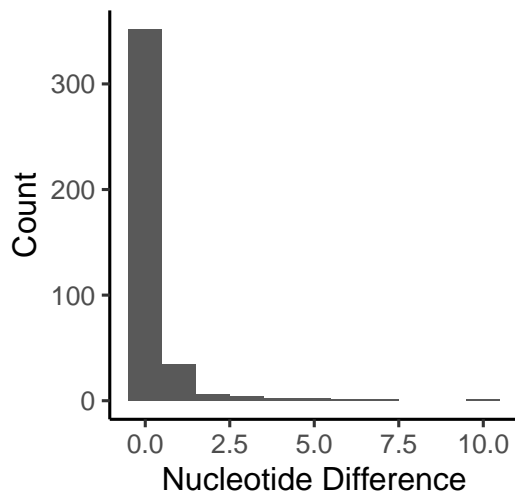
IGHV4–31*03

1172 sequences assigned
1011 (86.3%) exact matches, in which:
975 unique CDR3
7 unique J



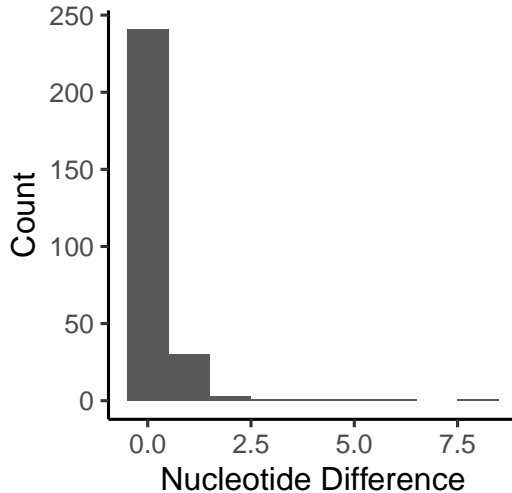
IGHV4–4*02

405 sequences assigned
352 (86.9%) exact matches, in which:
343 unique CDR3
6 unique J



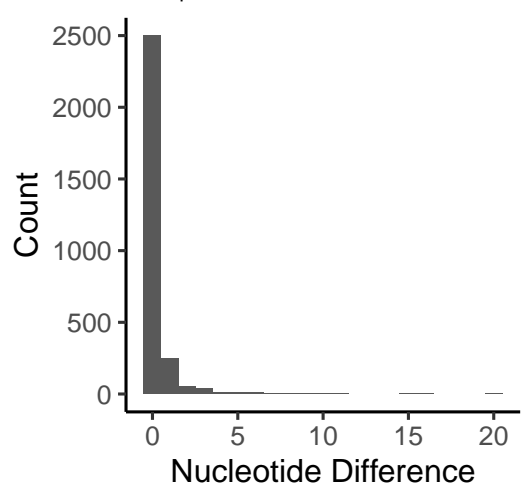
IGHV4–30–2*01

284 sequences assigned
241 (84.9%) exact matches, in which:
230 unique CDR3
7 unique J



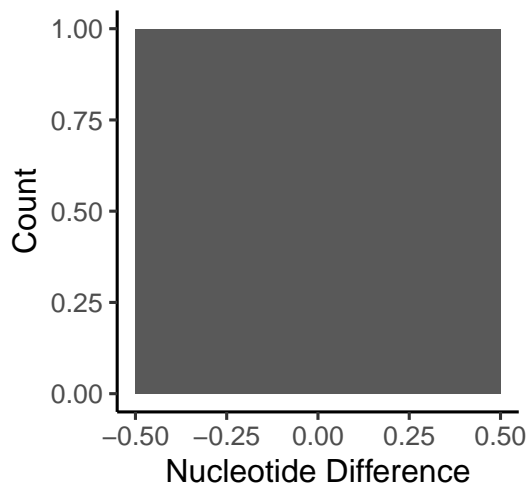
IGHV4–34*01

2902 sequences assigned
2499 (86.1%) exact matches, in which:
2366 unique CDR3
7 unique J



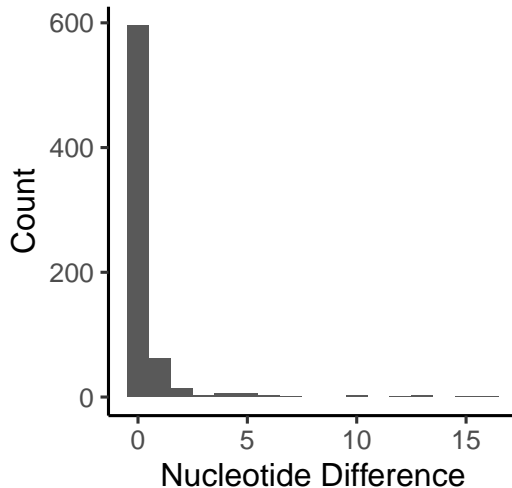
IGHV4–28*01

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



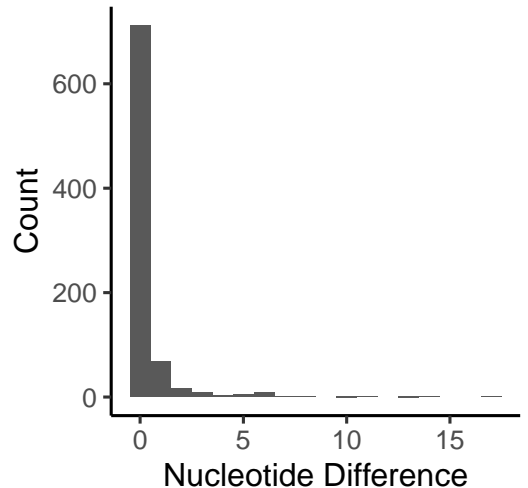
IGHV4–30–4*01

702 sequences assigned
596 (84.9%) exact matches, in which:
576 unique CDR3
7 unique J



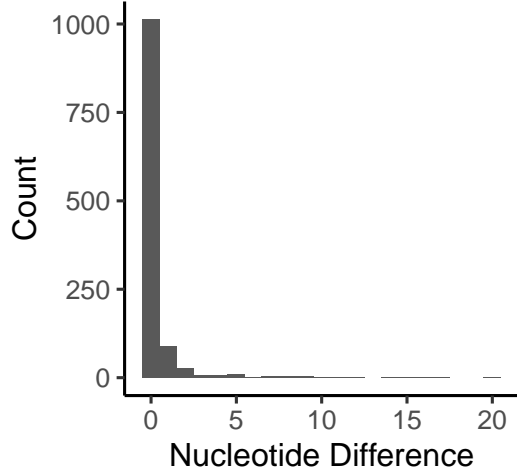
IGHV4–38–2*02_A70G

828 sequences assigned
712 (86%) exact matches, in which:
671 unique CDR3
6 unique J



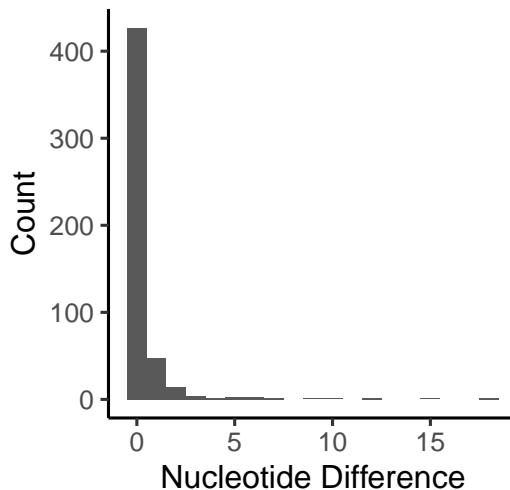
IGHV4–39*01

1195 sequences assigned
1013 (84.8%) exact matches, in which:
969 unique CDR3
7 unique J



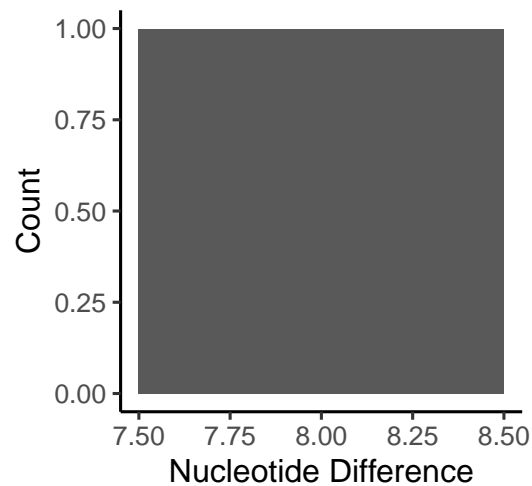
IGHV4–59*08

516 sequences assigned
427 (82.8%) exact matches, in which:
423 unique CDR3
6 unique J



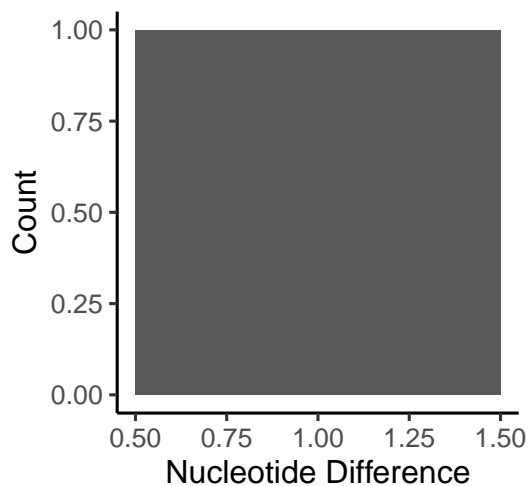
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



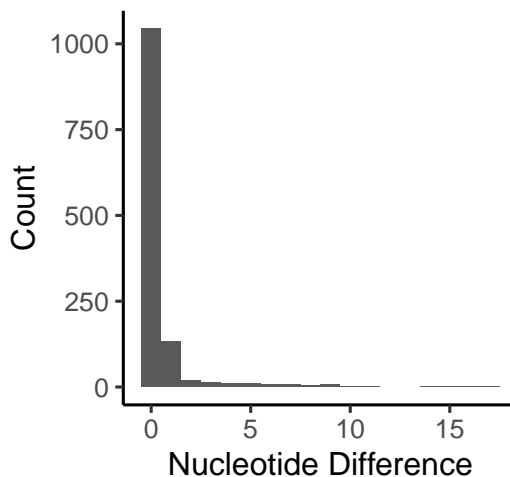
IGHV4–55*08

1 sequences assigned
No exact matches.



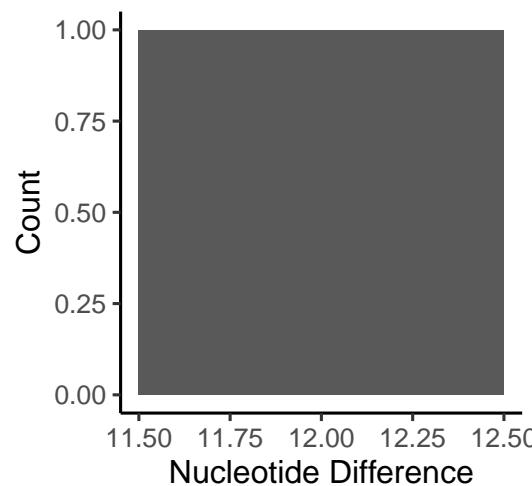
IGHV4–61*02

1269 sequences assigned
1044 (82.3%) exact matches, in which:
1021 unique CDR3
6 unique J



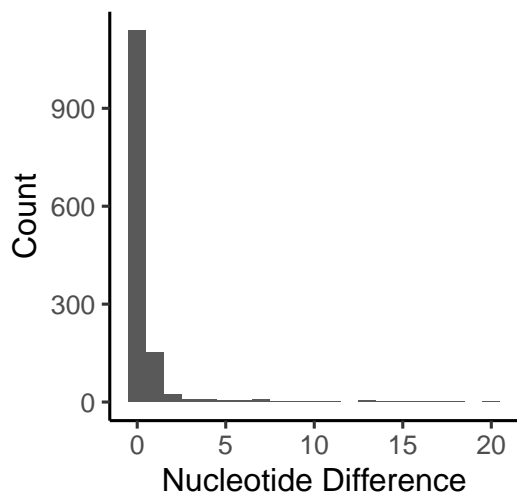
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



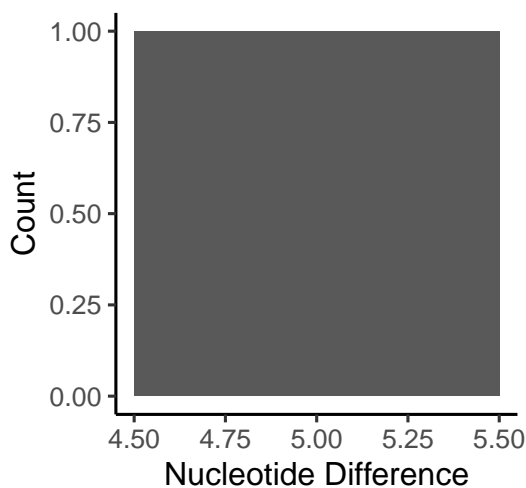
IGHV4–59*01

1380 sequences assigned
1139 (82.5%) exact matches, in which:
1117 unique CDR3
7 unique J



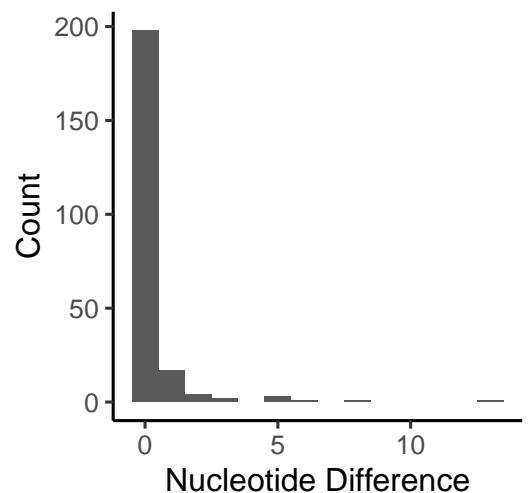
IGHV1/OR15–4*01

1 sequences assigned
No exact matches.



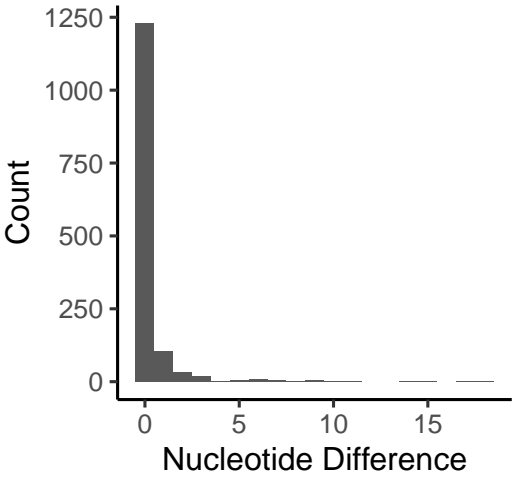
IGHV5–10–1*03

227 sequences assigned
198 (87.2%) exact matches, in which:
194 unique CDR3
7 unique J



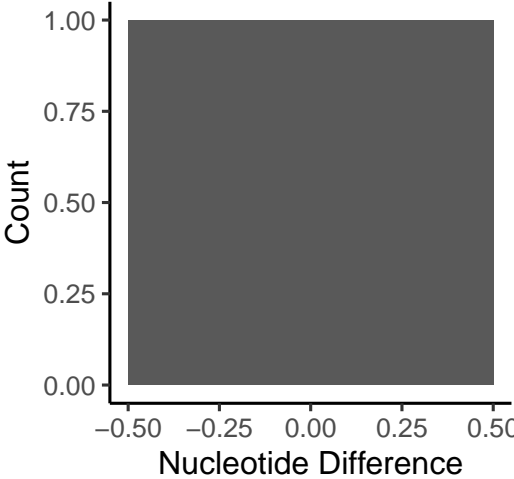
IGHV5-51*01

1423 sequences assigned
1229 (86.4%) exact matches, in which:
1190 unique CDR3
7 unique J



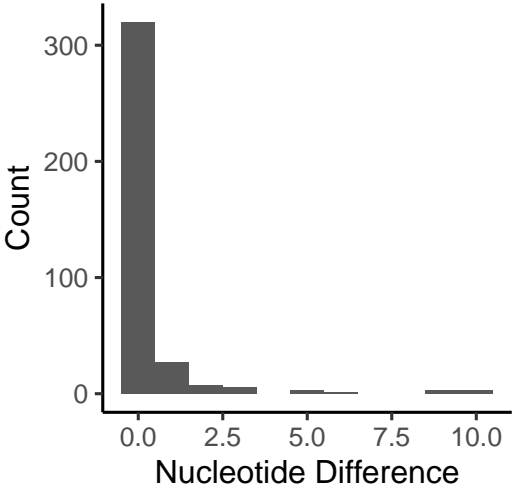
IGHV7-81*01

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



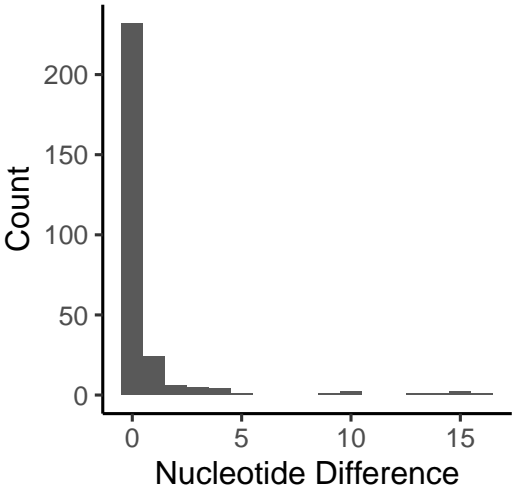
IGHV6-1*01

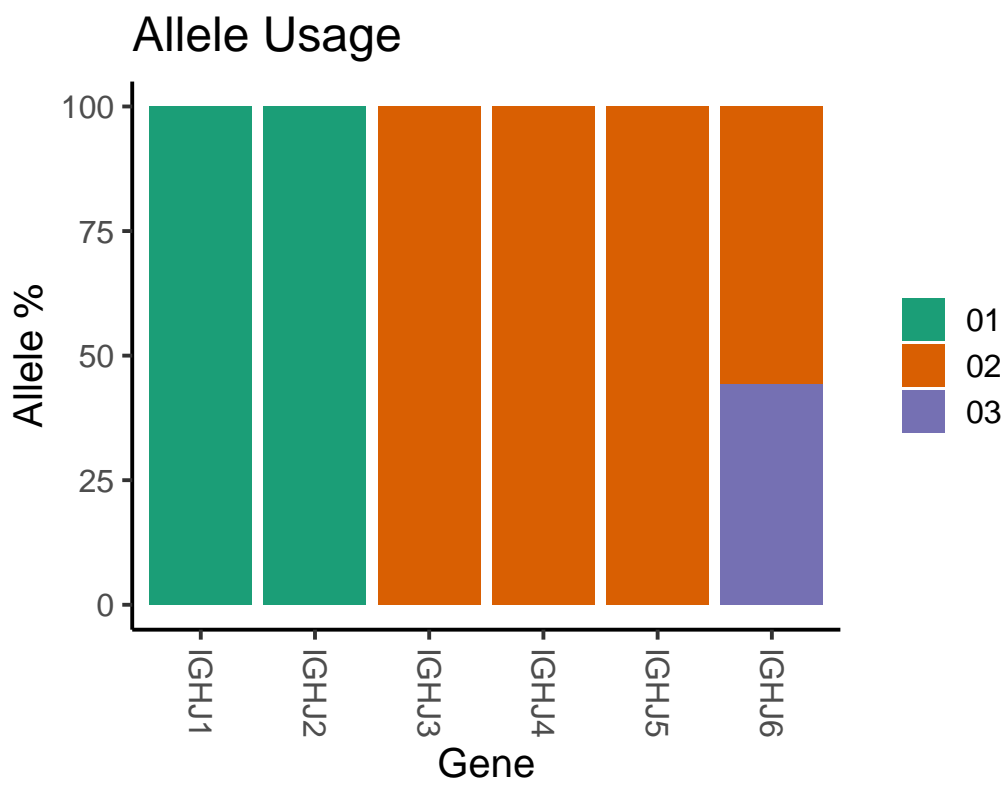
372 sequences assigned
320 (86%) exact matches, in which:
312 unique CDR3
7 unique J



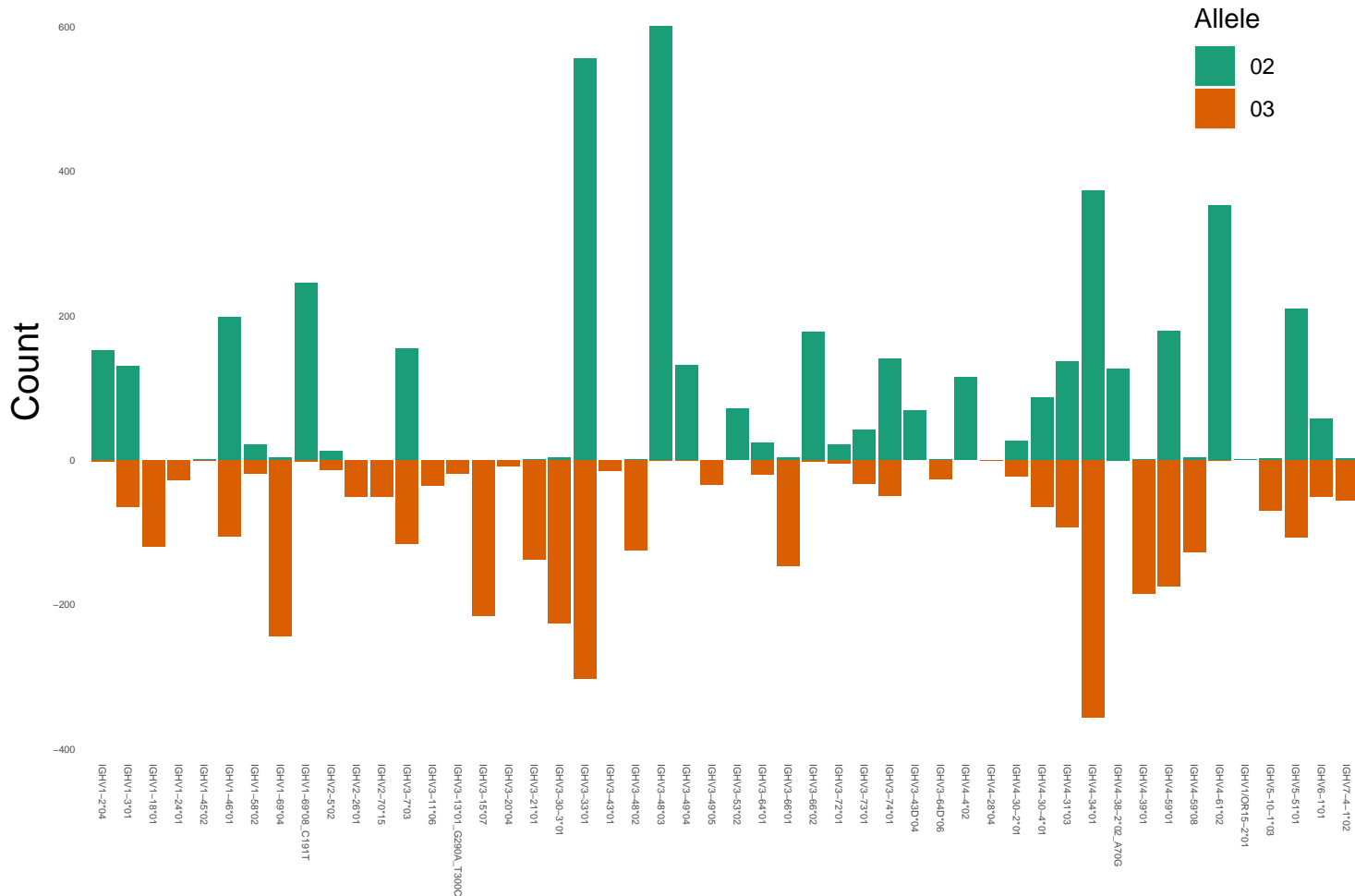
IGHV7-4-1*02

280 sequences assigned
232 (82.9%) exact matches, in which:
220 unique CDR3
6 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.