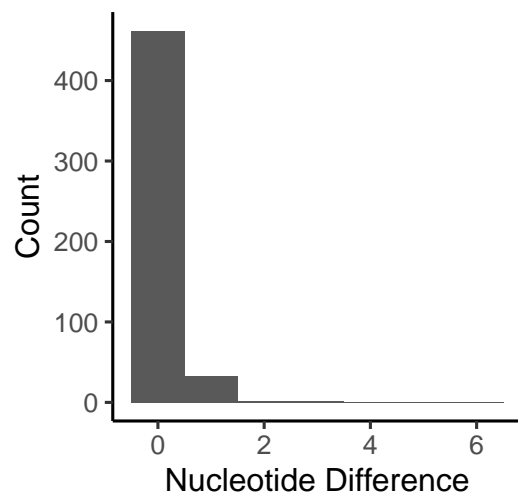


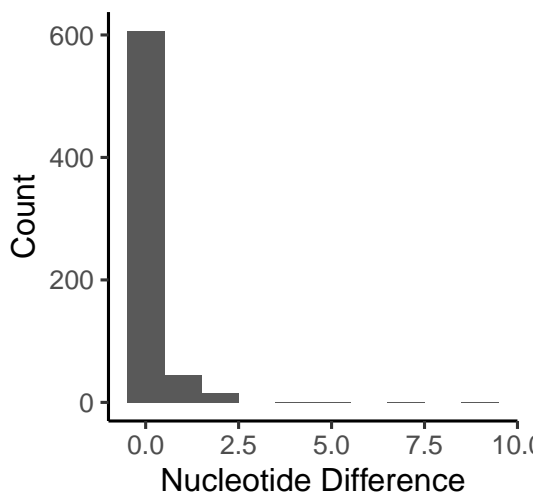
IGHV1-2*02

502 sequences assigned
462 (92%) exact matches, in which:
452 unique CDR3
6 unique J



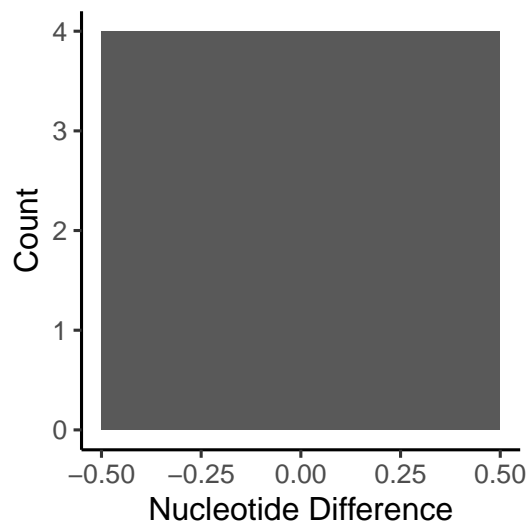
IGHV1-8*01

672 sequences assigned
607 (90.3%) exact matches, in which:
588 unique CDR3
6 unique J



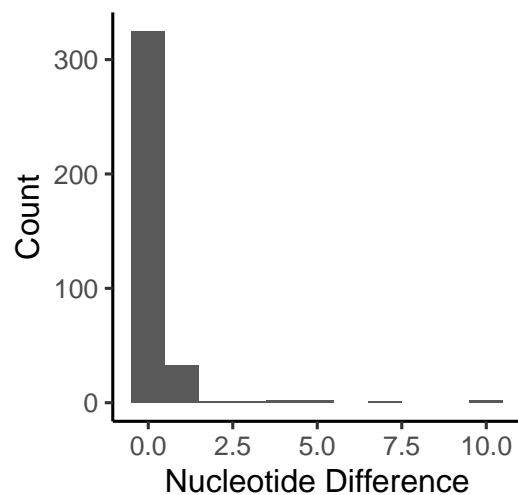
IGHV1-45*02

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



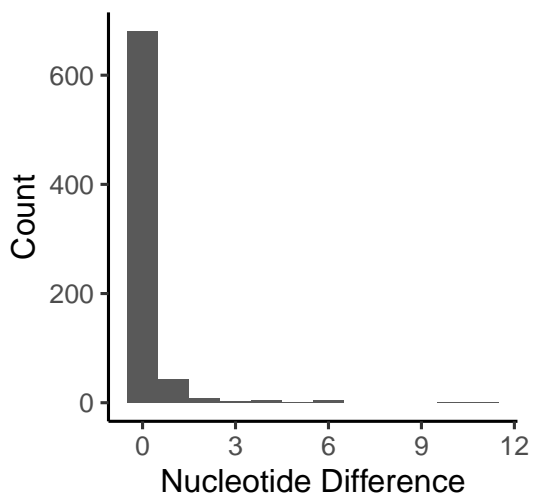
IGHV1-2*06

367 sequences assigned
325 (88.6%) exact matches, in which:
311 unique CDR3
5 unique J



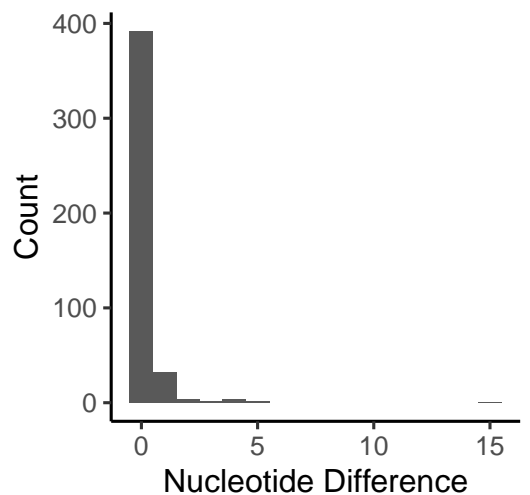
IGHV1-18*01

746 sequences assigned
681 (91.3%) exact matches, in which:
664 unique CDR3
6 unique J



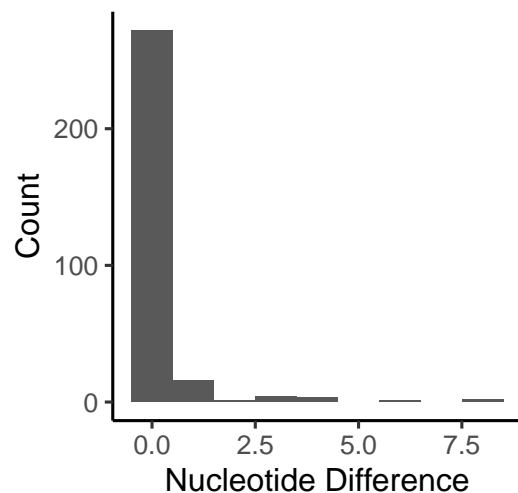
IGHV1-46*01

437 sequences assigned
392 (89.7%) exact matches, in which:
384 unique CDR3
6 unique J



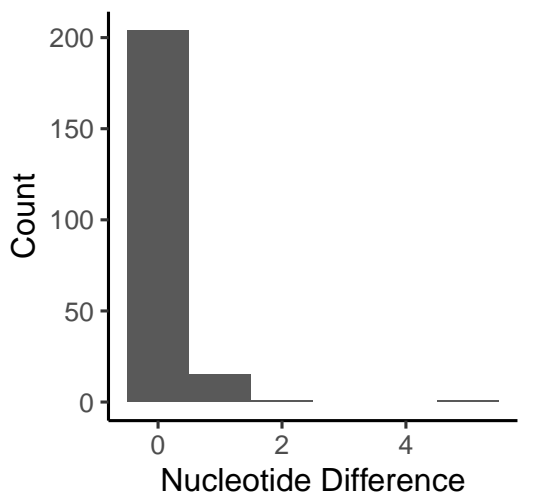
IGHV1-3*01

300 sequences assigned
272 (90.7%) exact matches, in which:
266 unique CDR3
6 unique J



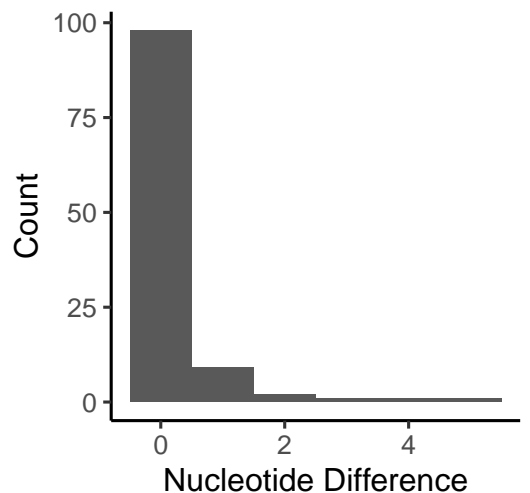
IGHV1-24*01

221 sequences assigned
204 (92.3%) exact matches, in which:
198 unique CDR3
6 unique J



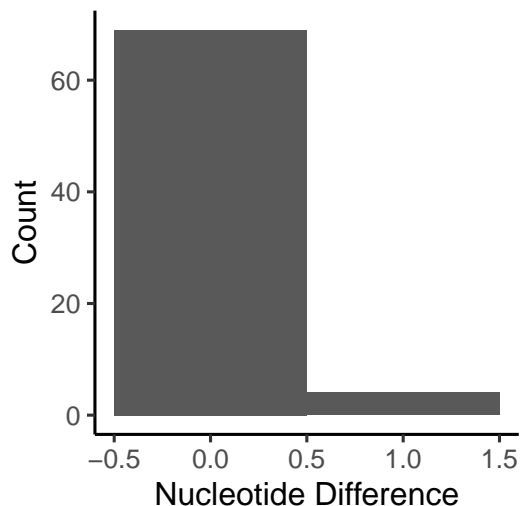
IGHV1-58*01

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



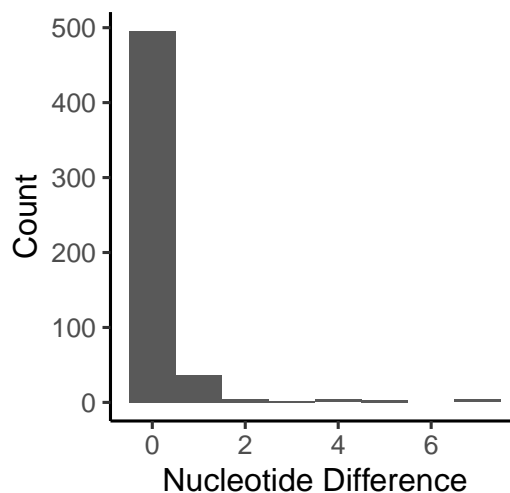
IGHV1-69-2*01

73 sequences assigned
69 (94.5%) exact matches, in which:
68 unique CDR3
6 unique J



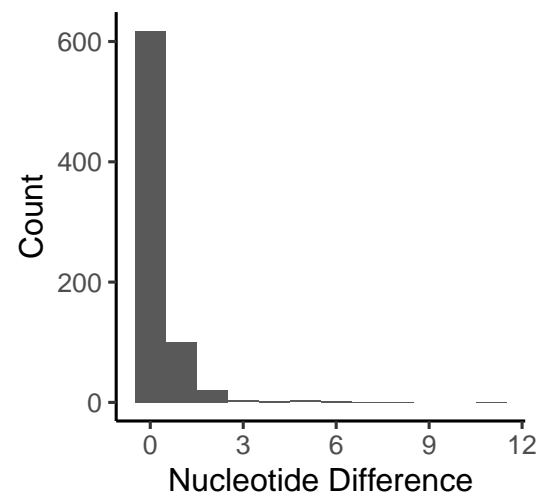
IGHV2-5*02

551 sequences assigned
496 (90%) exact matches, in which:
486 unique CDR3
6 unique J



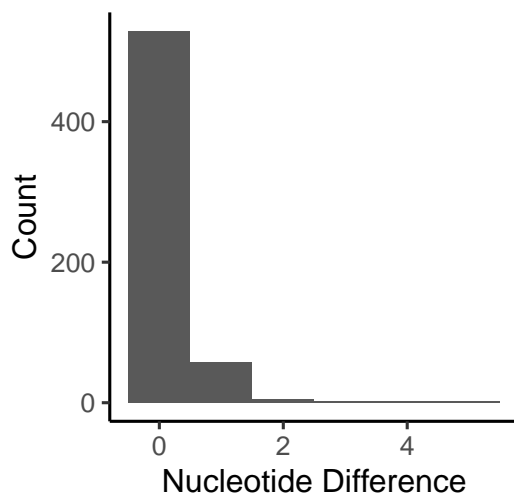
IGHV3-7*01

751 sequences assigned
618 (82.3%) exact matches, in which:
599 unique CDR3
6 unique J



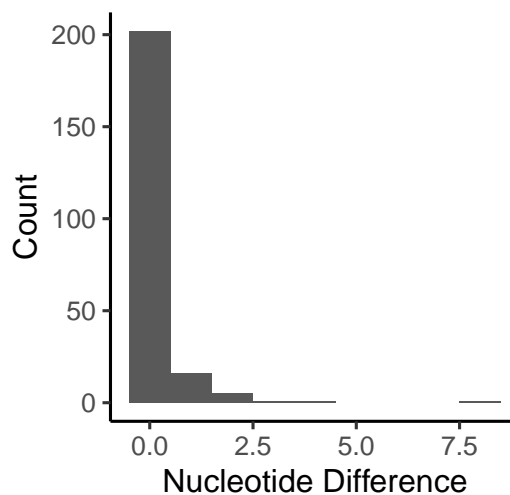
IGHV1-69*06

597 sequences assigned
529 (88.6%) exact matches, in which:
518 unique CDR3
6 unique J



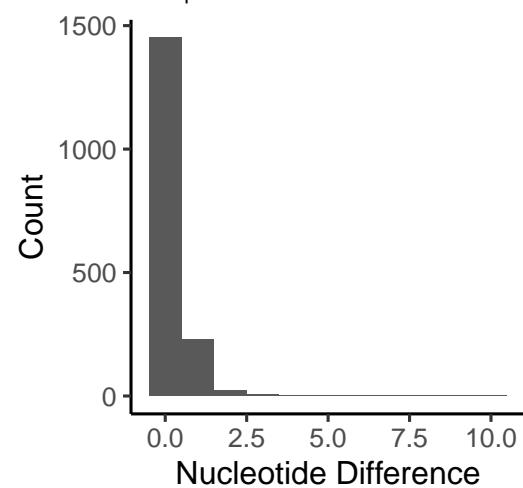
IGHV2-26*01

226 sequences assigned
202 (89.4%) exact matches, in which:
201 unique CDR3
6 unique J



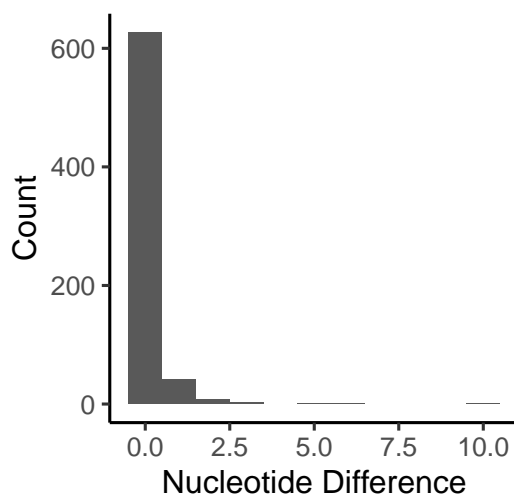
IGHV3-9*01

1715 sequences assigned
1451 (84.6%) exact matches, in which:
1370 unique CDR3
6 unique J



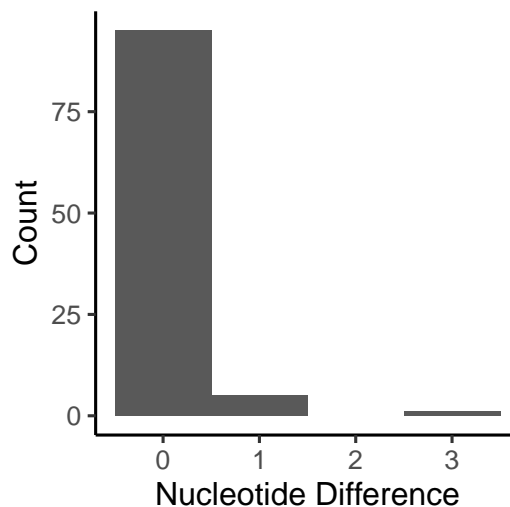
IGHV1-69*06_G240A

680 sequences assigned
627 (92.2%) exact matches, in which:
607 unique CDR3
6 unique J



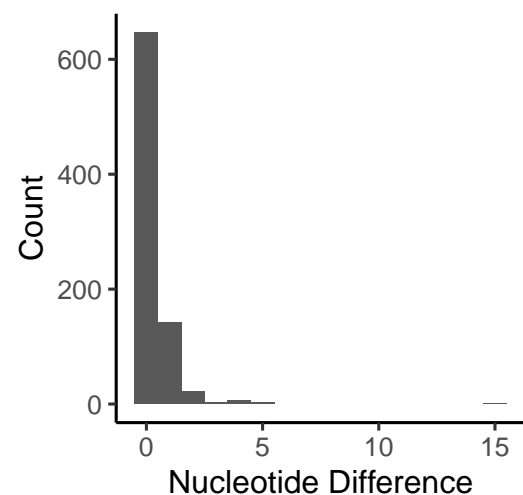
IGHV2-70*01

102 sequences assigned
95 (93.1%) exact matches, in which:
94 unique CDR3
5 unique J



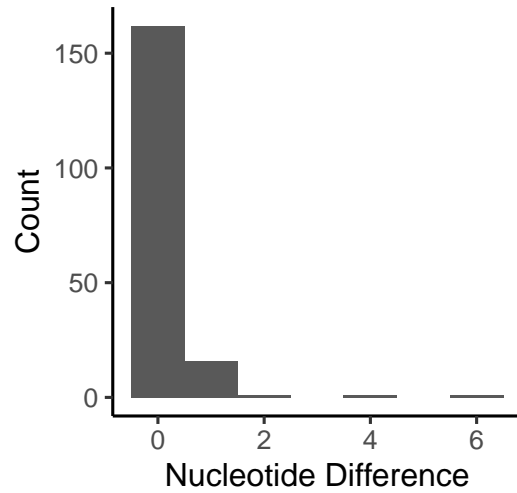
IGHV3-11*01

823 sequences assigned
647 (78.6%) exact matches, in which:
626 unique CDR3
6 unique J



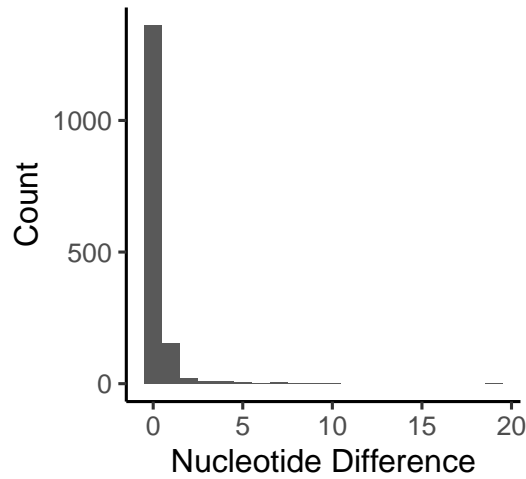
IGHV3-13*01

181 sequences assigned
162 (89.5%) exact matches, in which:
157 unique CDR3
5 unique J



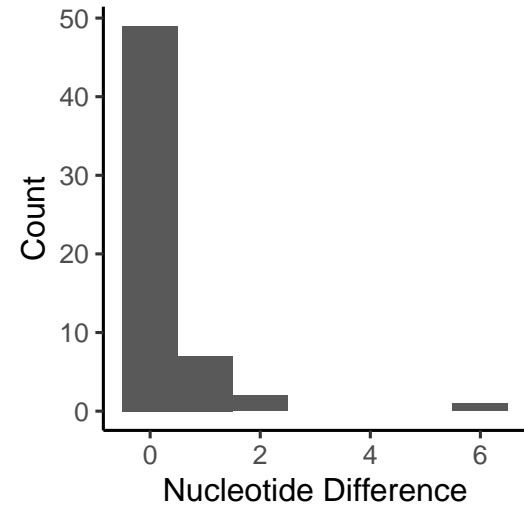
IGHV3-21*01

1576 sequences assigned
1361 (86.4%) exact matches, in which:
1291 unique CDR3
6 unique J



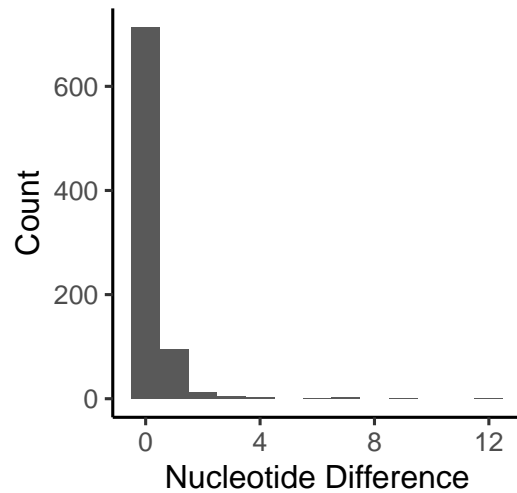
IGHV3-43*01

59 sequences assigned
49 (83.1%) exact matches, in which:
46 unique CDR3
4 unique J



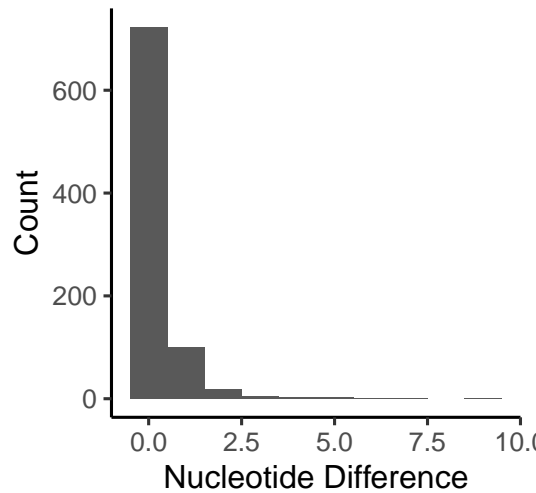
IGHV3-15*01

836 sequences assigned
714 (85.4%) exact matches, in which:
685 unique CDR3
6 unique J



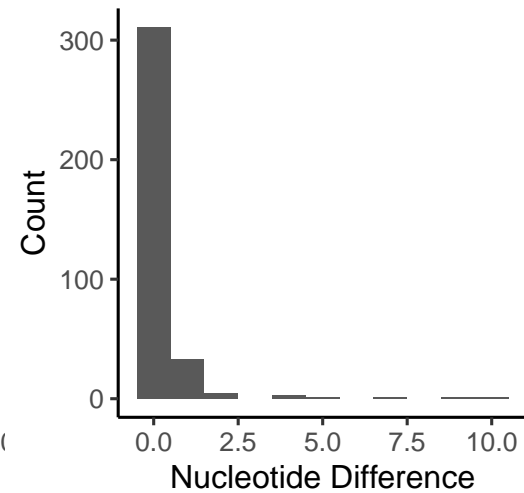
IGHV3-30-3*01

856 sequences assigned
723 (84.5%) exact matches, in which:
697 unique CDR3
6 unique J



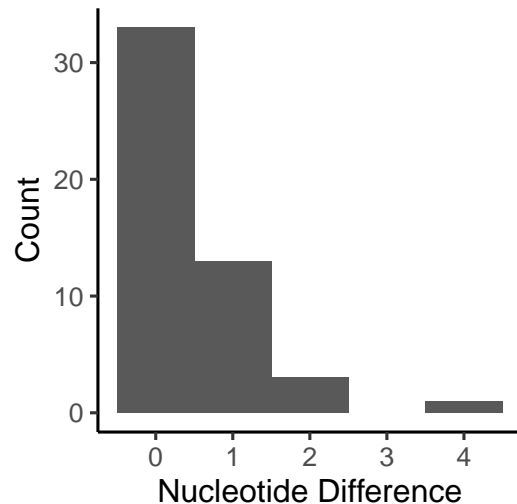
IGHV3-48*02

356 sequences assigned
311 (87.4%) exact matches, in which:
294 unique CDR3
6 unique J



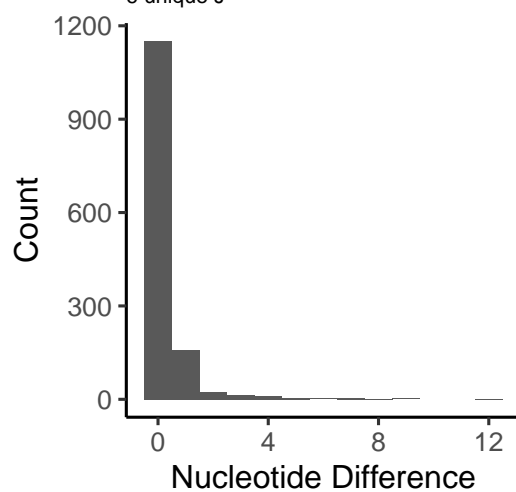
IGHV3-20*01

50 sequences assigned
33 (66%) exact matches, in which:
32 unique CDR3
6 unique J



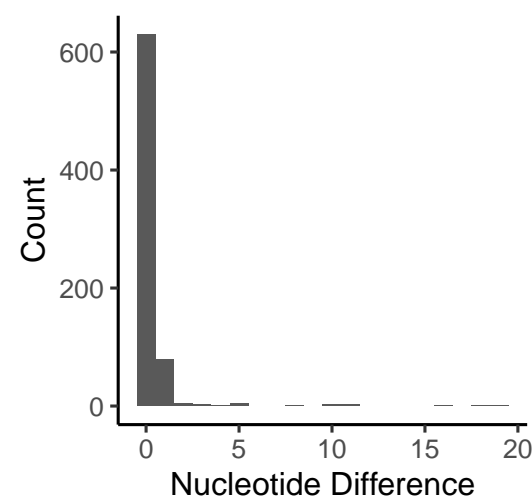
IGHV3-33*01

1376 sequences assigned
1151 (83.6%) exact matches, in which:
1086 unique CDR3
6 unique J



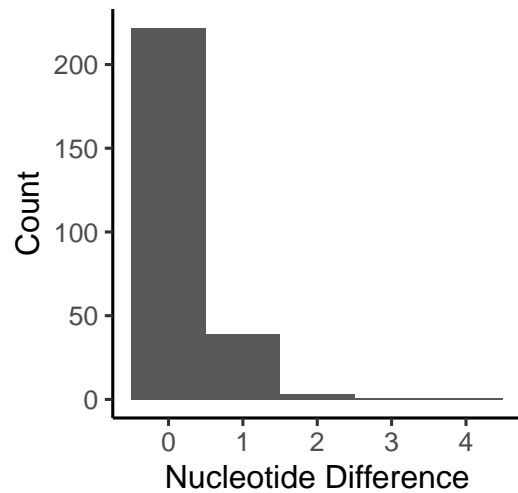
IGHV3-48*03

732 sequences assigned
630 (86.1%) exact matches, in which:
610 unique CDR3
6 unique J



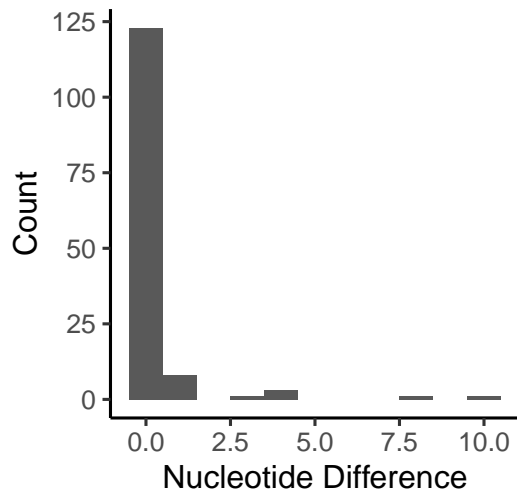
IGHV3-49*04

266 sequences assigned
222 (83.5%) exact matches, in which:
214 unique CDR3
6 unique J



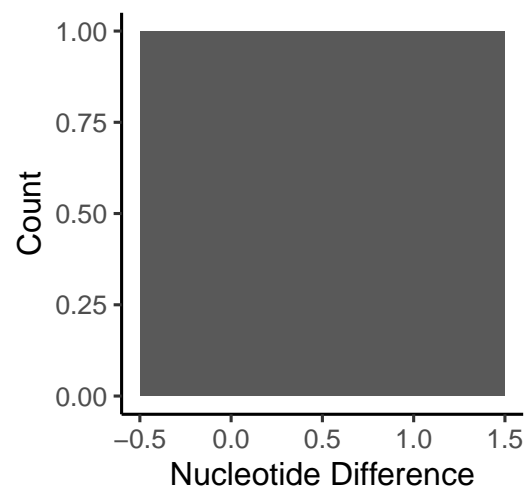
IGHV3-53*02

137 sequences assigned
123 (89.8%) exact matches, in which:
122 unique CDR3
6 unique J



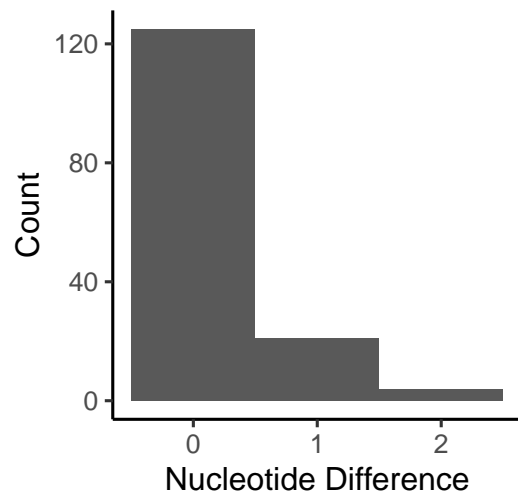
IGHV3-66*04

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



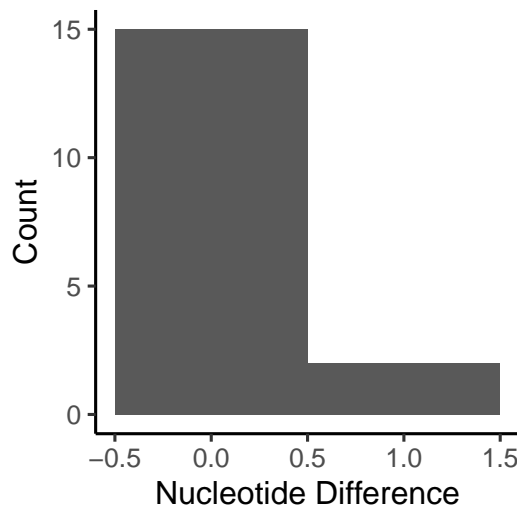
IGHV3-49*05

150 sequences assigned
125 (83.3%) exact matches, in which:
121 unique CDR3
6 unique J



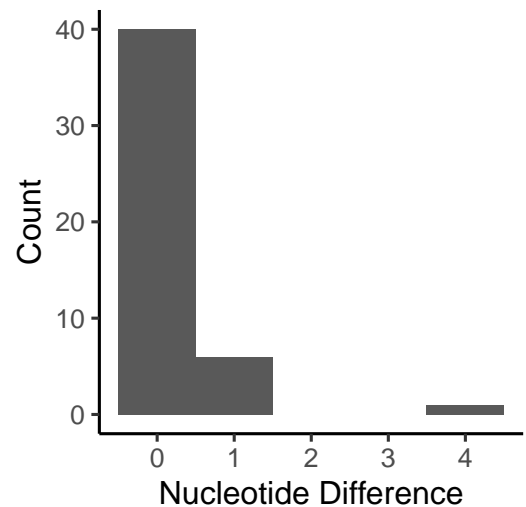
IGHV3-64*02

17 sequences assigned
15 (88.2%) exact matches, in which:
15 unique CDR3
5 unique J



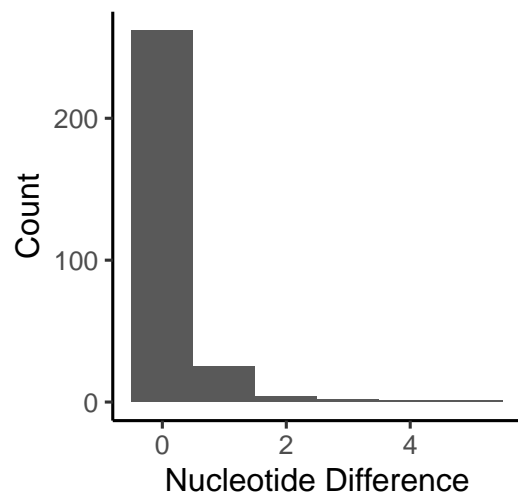
IGHV3-72*01

47 sequences assigned
40 (85.1%) exact matches, in which:
38 unique CDR3
5 unique J



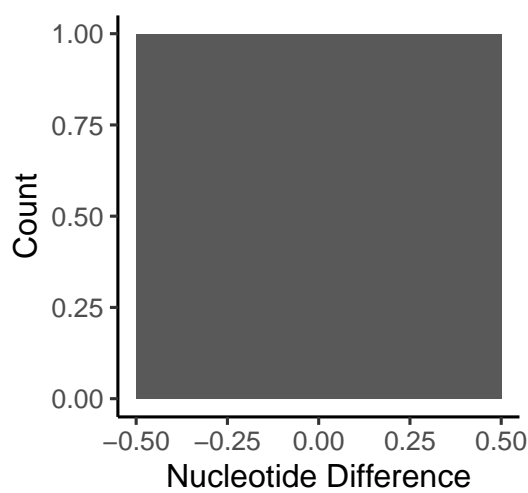
IGHV3-53*01

295 sequences assigned
262 (88.8%) exact matches, in which:
252 unique CDR3
6 unique J



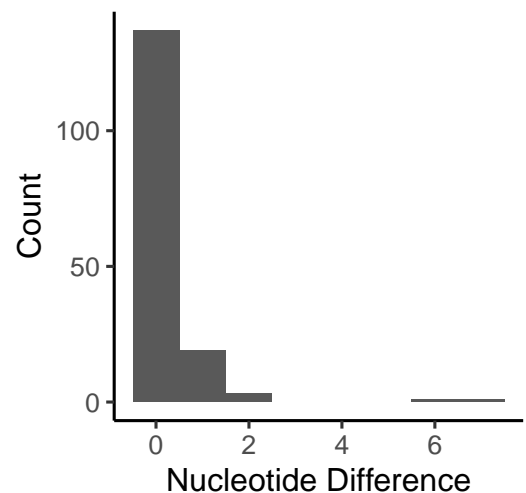
IGHV3-66*03

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



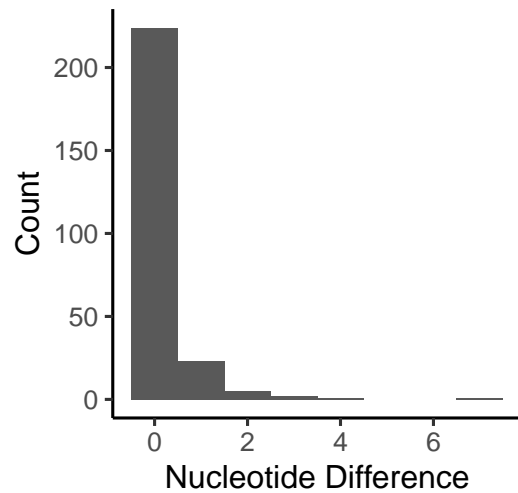
IGHV3-73*02

161 sequences assigned
137 (85.1%) exact matches, in which:
132 unique CDR3
6 unique J



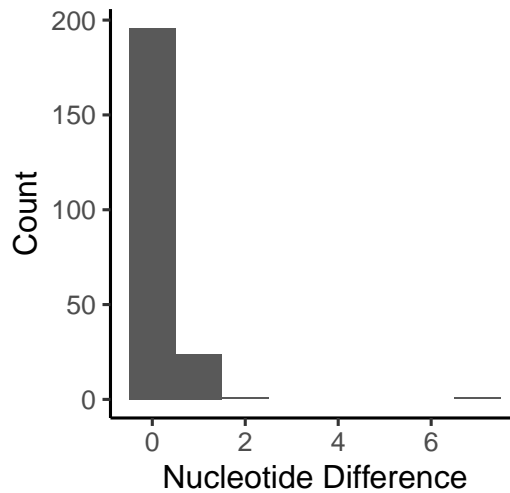
IGHV3–74*01

256 sequences assigned
224 (87.5%) exact matches, in which:
221 unique CDR3
6 unique J



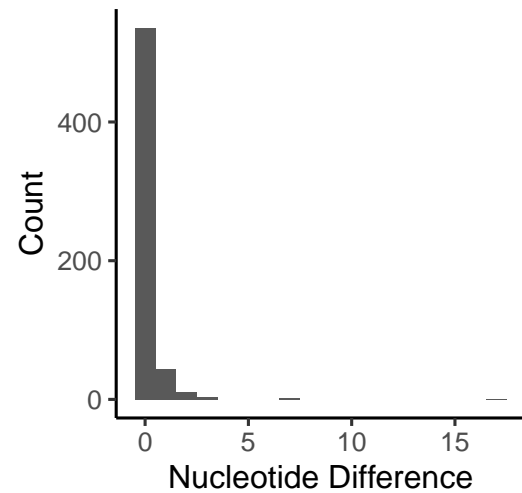
IGHV4–4*07

222 sequences assigned
196 (88.3%) exact matches, in which:
194 unique CDR3
6 unique J



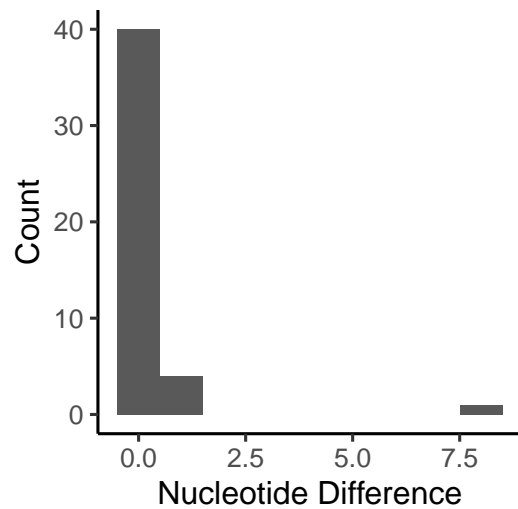
IGHV4–31*03

597 sequences assigned
536 (89.8%) exact matches, in which:
519 unique CDR3
6 unique J



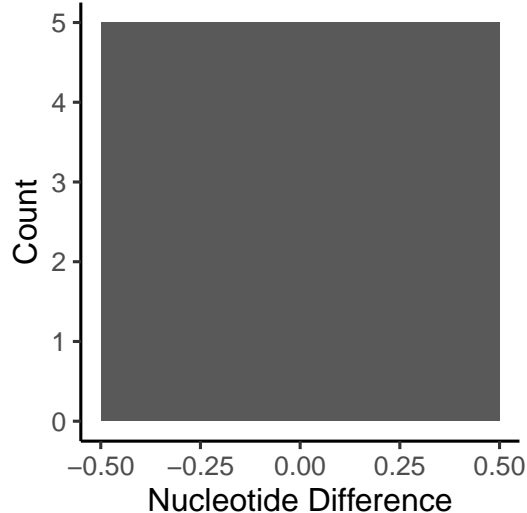
IGHV3–43D*04

45 sequences assigned
40 (88.9%) exact matches, in which:
40 unique CDR3
5 unique J



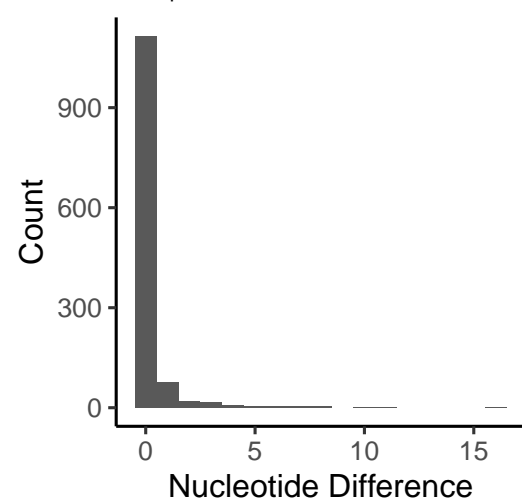
IGHV4–28*01

5 sequences assigned
5 (100%) exact matches, in which:
5 unique CDR3
4 unique J



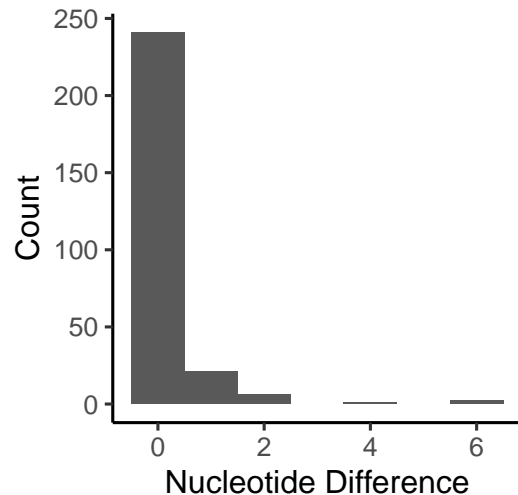
IGHV4–34*01

1254 sequences assigned
1115 (88.9%) exact matches, in which:
1076 unique CDR3
6 unique J



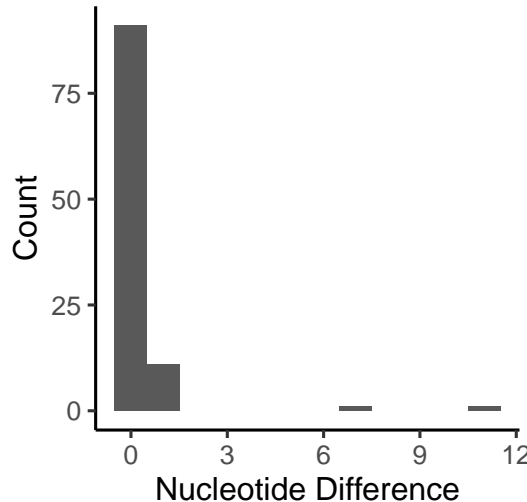
IGHV4–4*02

271 sequences assigned
241 (88.9%) exact matches, in which:
237 unique CDR3
6 unique J



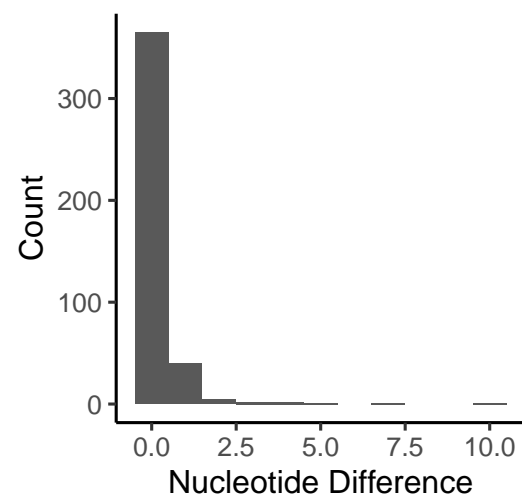
IGHV4–30–2*01

104 sequences assigned
91 (87.5%) exact matches, in which:
90 unique CDR3
5 unique J



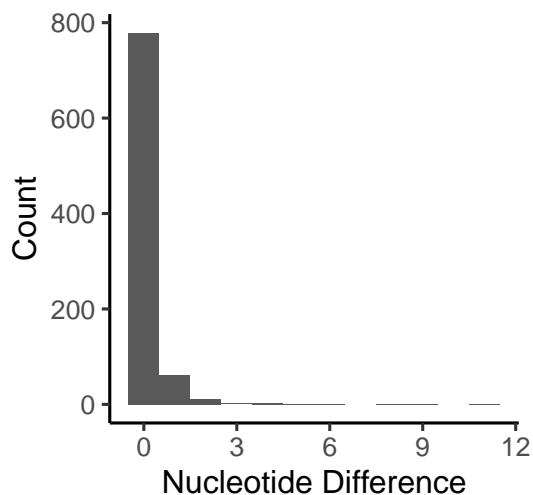
IGHV4–38–2*02_A70G

418 sequences assigned
365 (87.3%) exact matches, in which:
349 unique CDR3
6 unique J



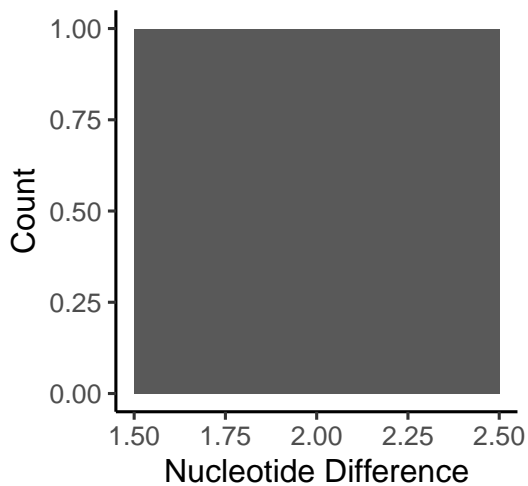
IGHV4-39*01

861 sequences assigned
779 (90.5%) exact matches, in which:
755 unique CDR3
6 unique J



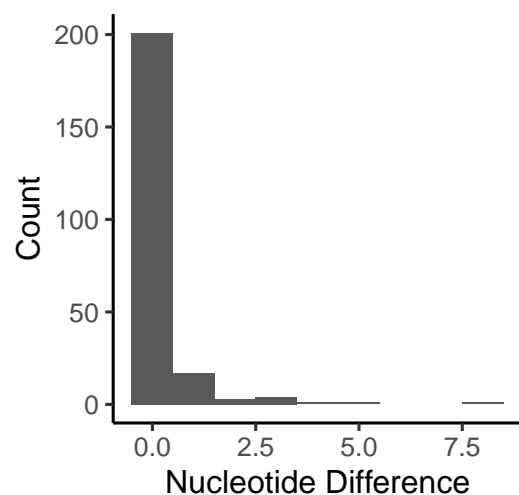
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



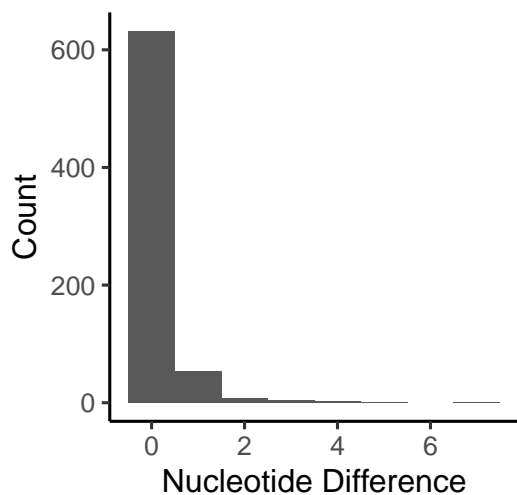
IGHV7-4-1*02

229 sequences assigned
201 (87.8%) exact matches, in which:
199 unique CDR3
6 unique J



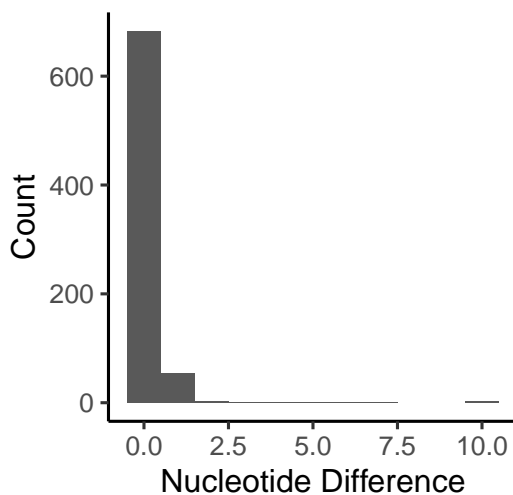
IGHV4-59*01

703 sequences assigned
632 (89.9%) exact matches, in which:
624 unique CDR3
6 unique J



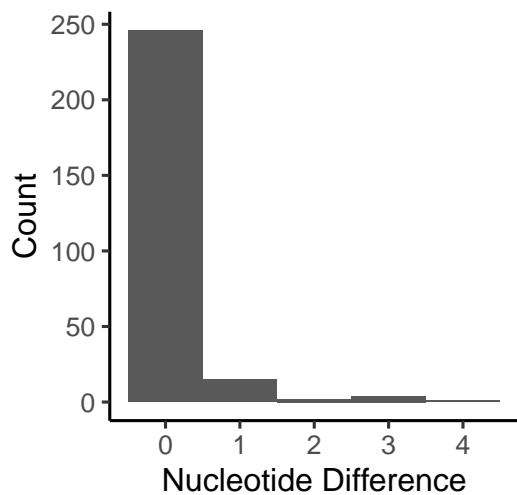
IGHV5-51*01

747 sequences assigned
683 (91.4%) exact matches, in which:
663 unique CDR3
6 unique J



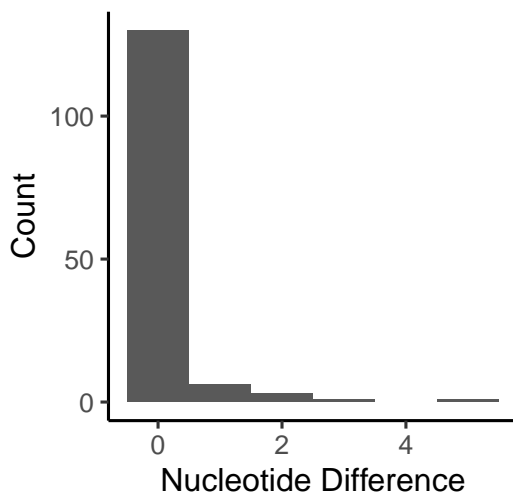
IGHV4-61*01

268 sequences assigned
246 (91.8%) exact matches, in which:
240 unique CDR3
6 unique J



IGHV6-1*01

141 sequences assigned
130 (92.2%) exact matches, in which:
127 unique CDR3
6 unique J





Warning – no inferred sequences found.