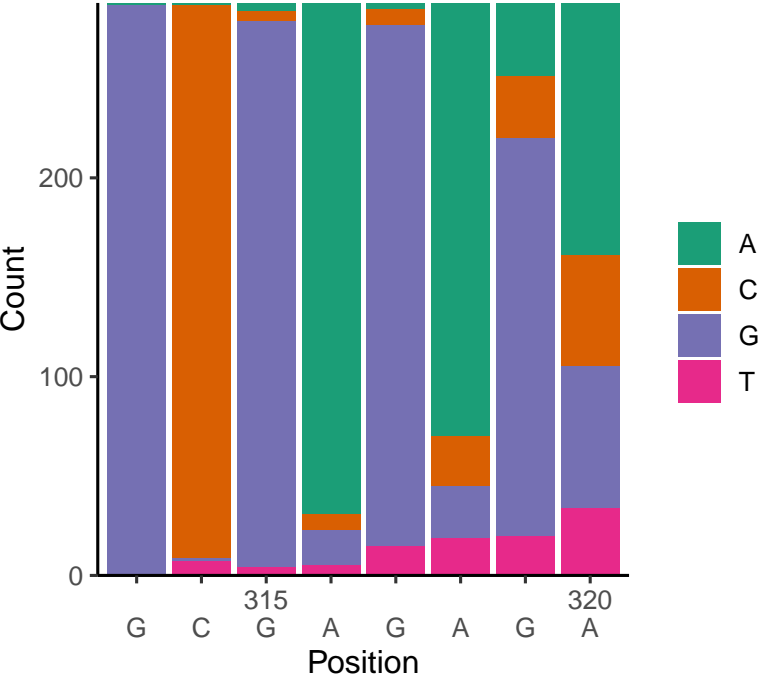
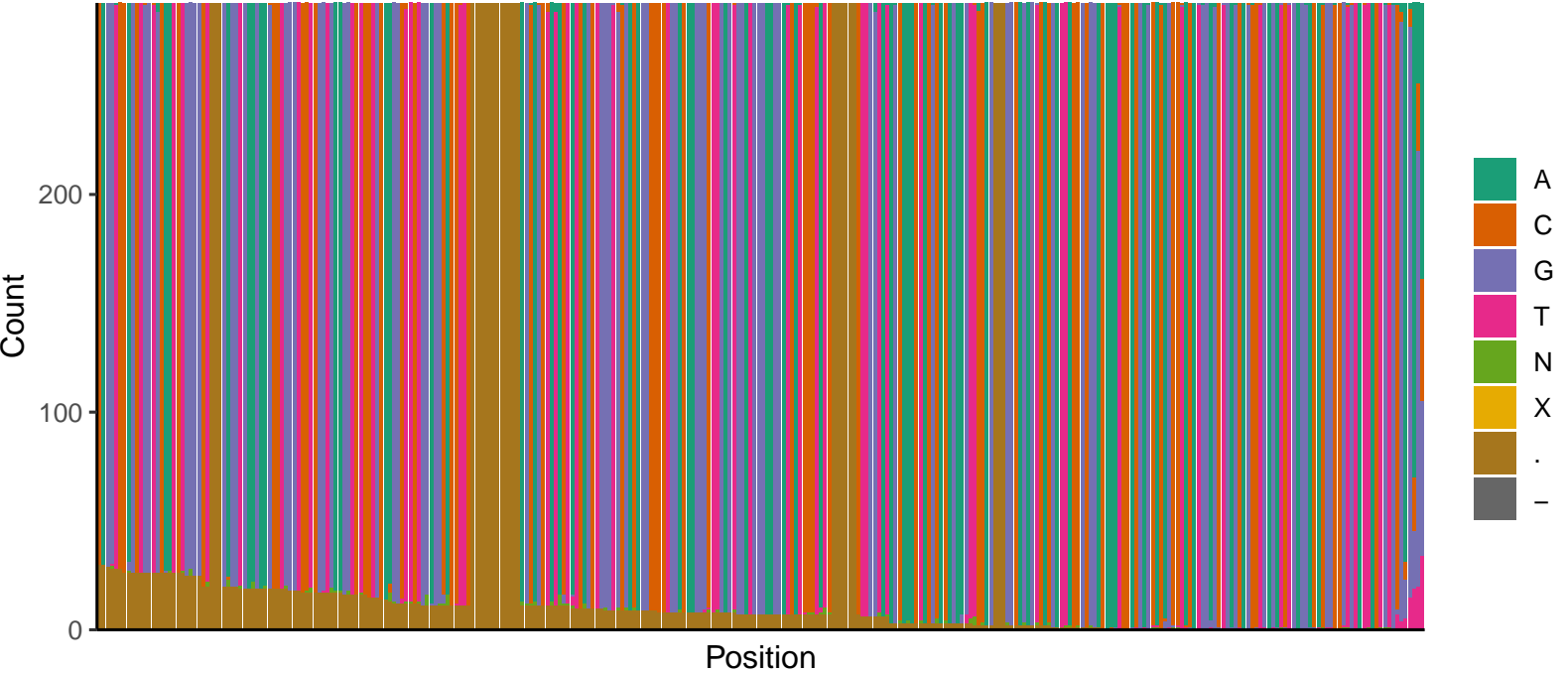


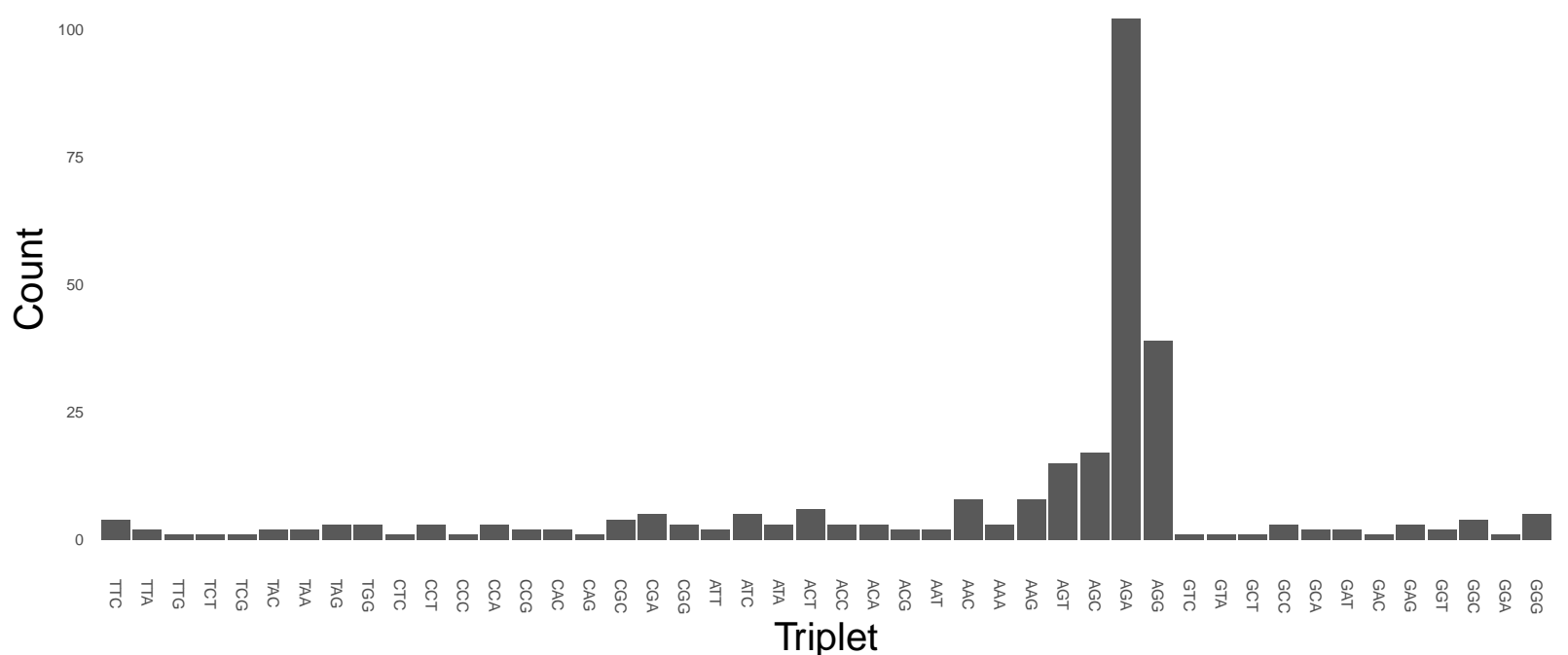
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

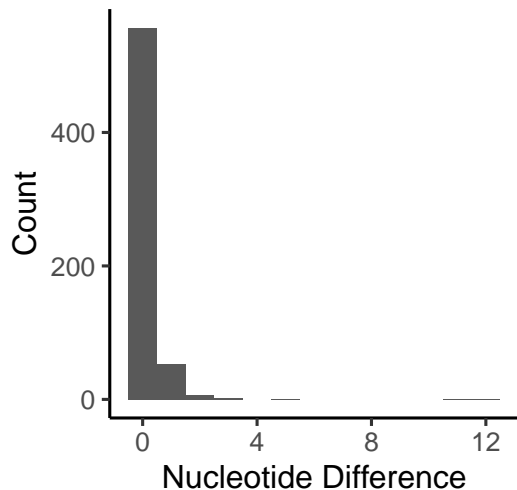


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



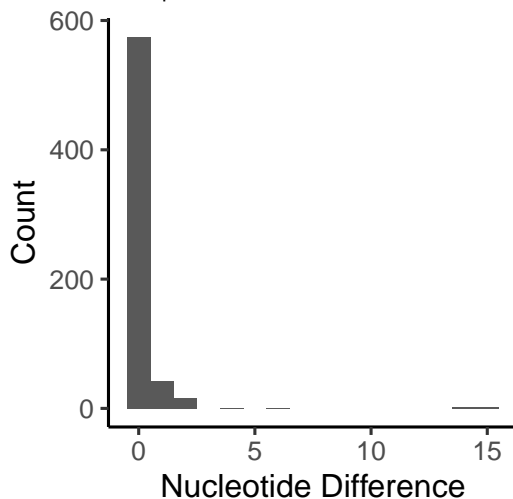
IGHV1-2*02

626 sequences assigned
557 (89%) exact matches, in which:
549 unique CDR3
6 unique J



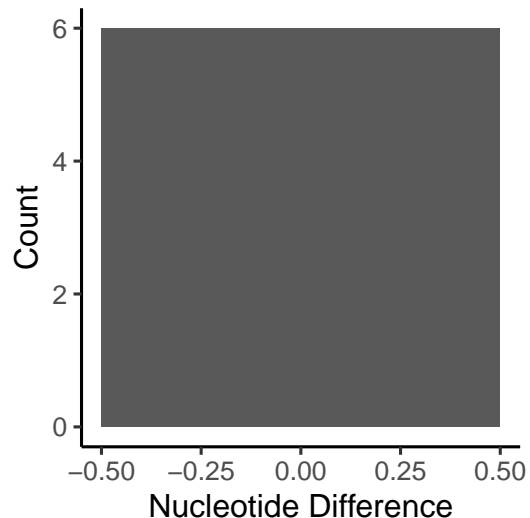
IGHV1-8*01

645 sequences assigned
575 (89.1%) exact matches, in which:
560 unique CDR3
6 unique J



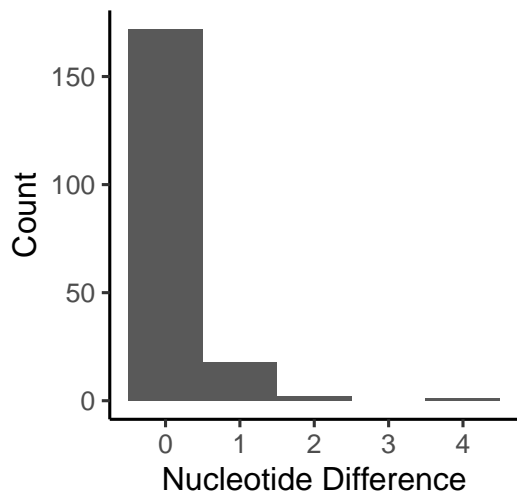
IGHV1-45*02

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J



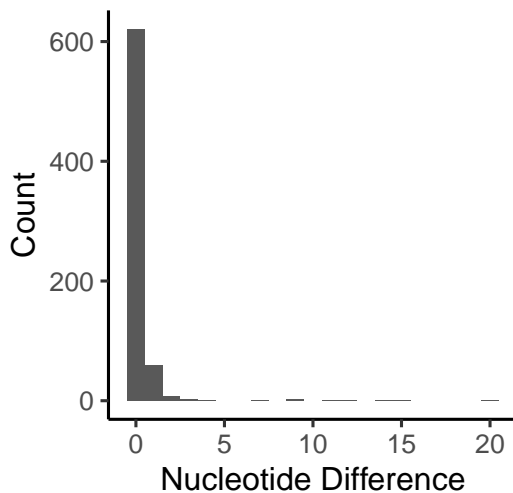
IGHV1-2*04

195 sequences assigned
172 (88.2%) exact matches, in which:
168 unique CDR3
6 unique J



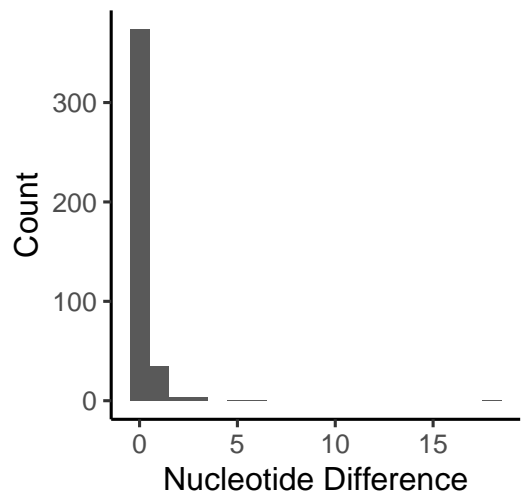
IGHV1-18*01

701 sequences assigned
621 (88.6%) exact matches, in which:
611 unique CDR3
6 unique J



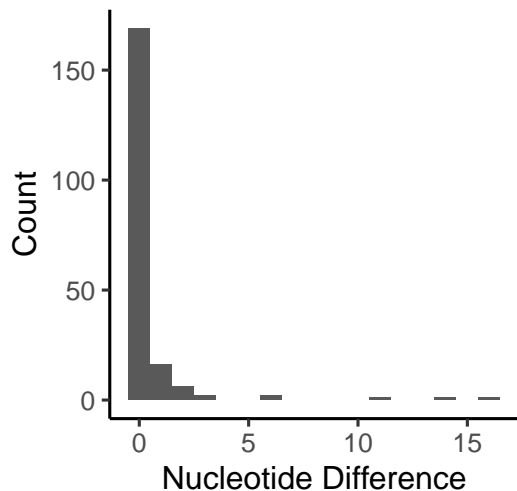
IGHV1-46*01

423 sequences assigned
374 (88.4%) exact matches, in which:
364 unique CDR3
6 unique J



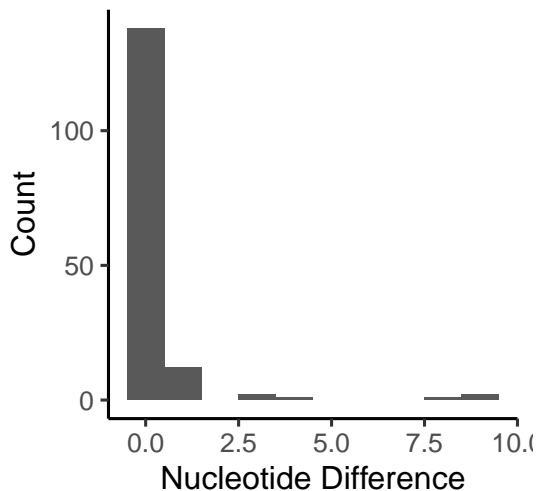
IGHV1-3*01

206 sequences assigned
169 (82%) exact matches, in which:
168 unique CDR3
6 unique J



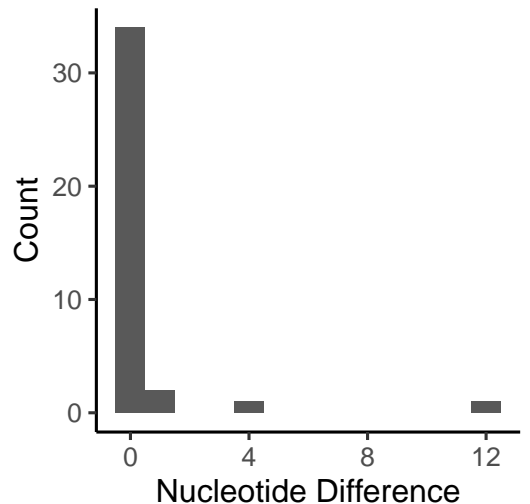
IGHV1-24*01

156 sequences assigned
138 (88.5%) exact matches, in which:
136 unique CDR3
5 unique J



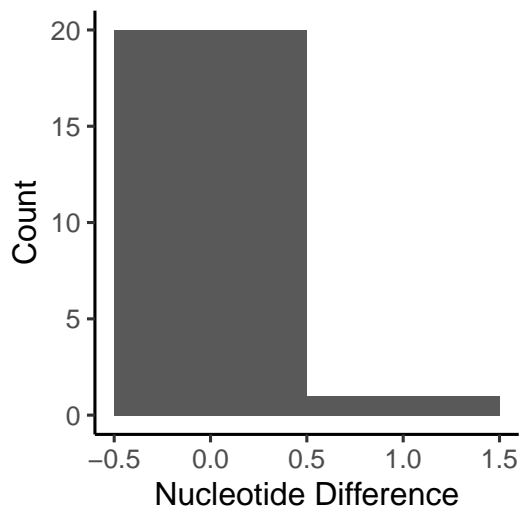
IGHV1-58*01

38 sequences assigned
34 (89.5%) exact matches, in which:
34 unique CDR3
5 unique J



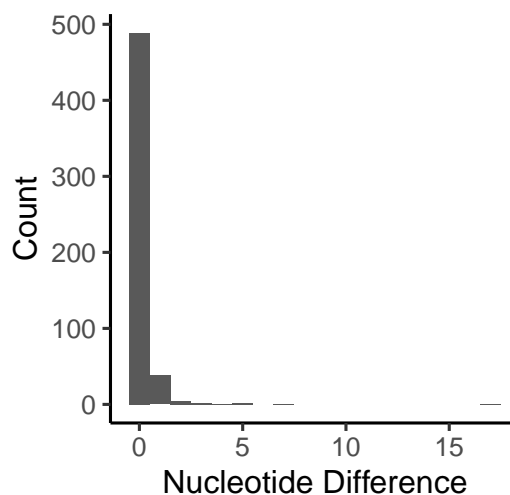
IGHV1–58*02

21 sequences assigned
20 (95.2%) exact matches, in which:
20 unique CDR3
5 unique J



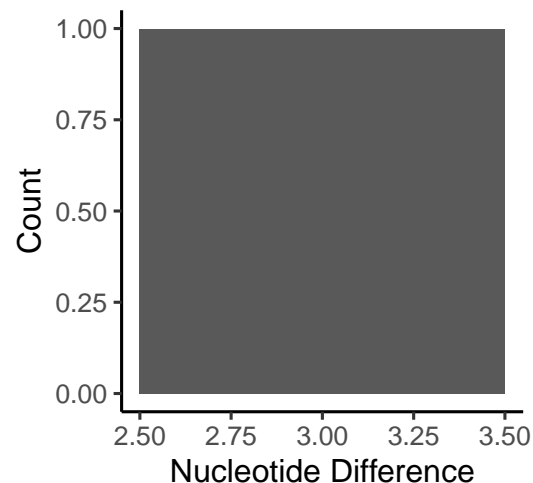
IGHV2–5*02

539 sequences assigned
489 (90.7%) exact matches, in which:
481 unique CDR3
6 unique J



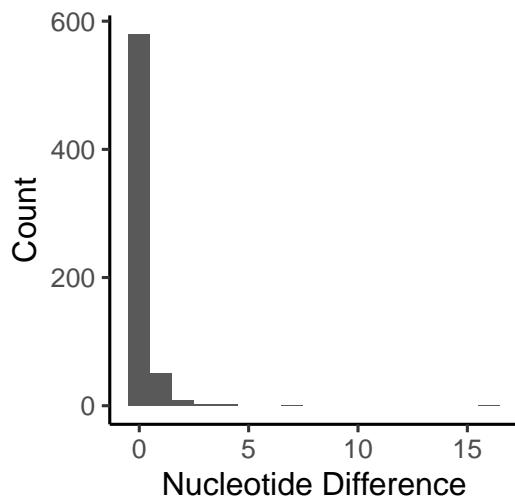
IGHV2–70D*14

1 sequences assigned
No exact matches.



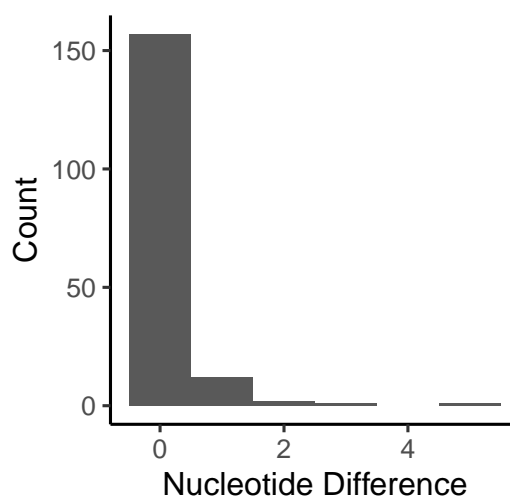
IGHV1–69*01

645 sequences assigned
580 (89.9%) exact matches, in which:
565 unique CDR3
6 unique J



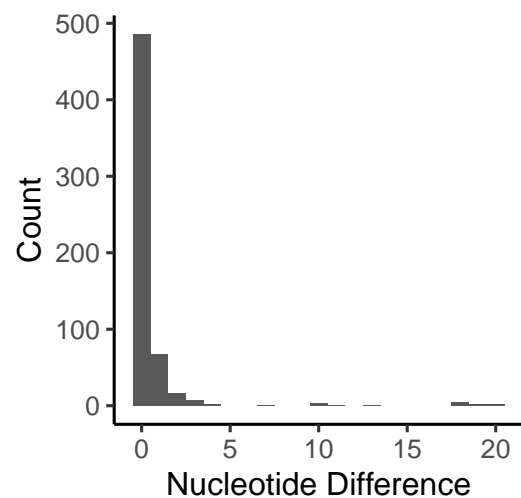
IGHV2–26*01

175 sequences assigned
157 (89.7%) exact matches, in which:
154 unique CDR3
6 unique J



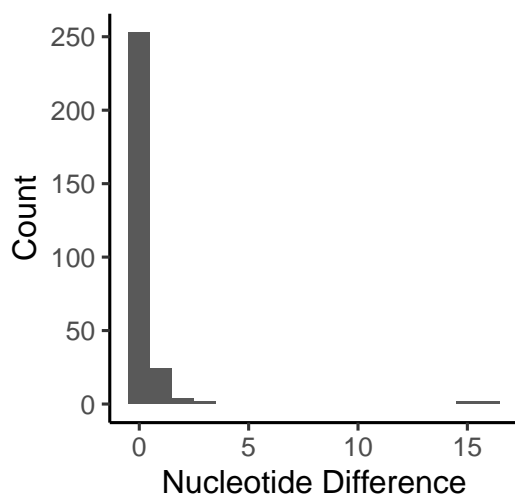
IGHV3–7*01

603 sequences assigned
486 (80.6%) exact matches, in which:
470 unique CDR3
6 unique J



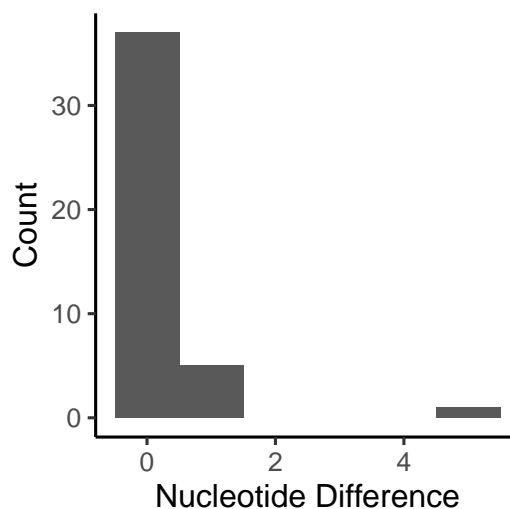
IGHV1–69*08_C191T

288 sequences assigned
253 (87.8%) exact matches, in which:
247 unique CDR3
6 unique J



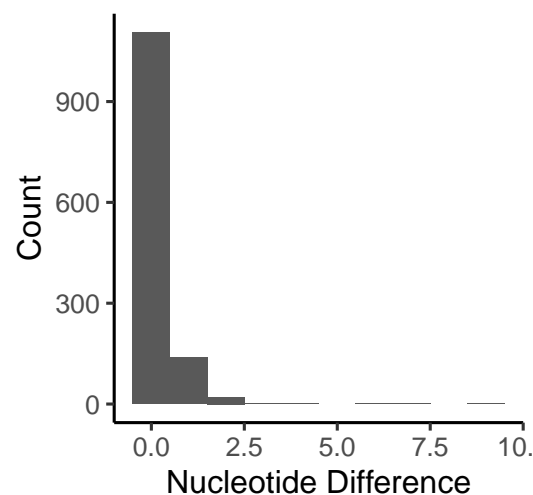
IGHV2–70*01

43 sequences assigned
37 (86%) exact matches, in which:
37 unique CDR3
4 unique J



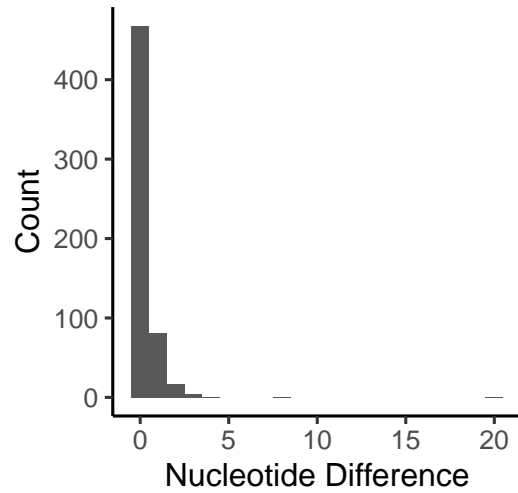
IGHV3–9*01

1280 sequences assigned
1106 (86.4%) exact matches, in which:
1058 unique CDR3
6 unique J



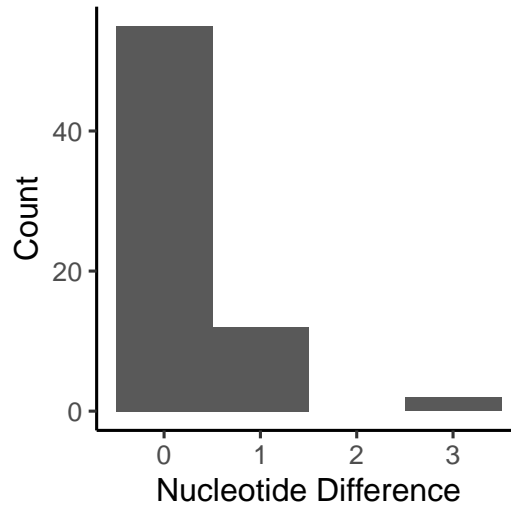
IGHV3-11*01

573 sequences assigned
468 (81.7%) exact matches, in which:
457 unique CDR3
6 unique J



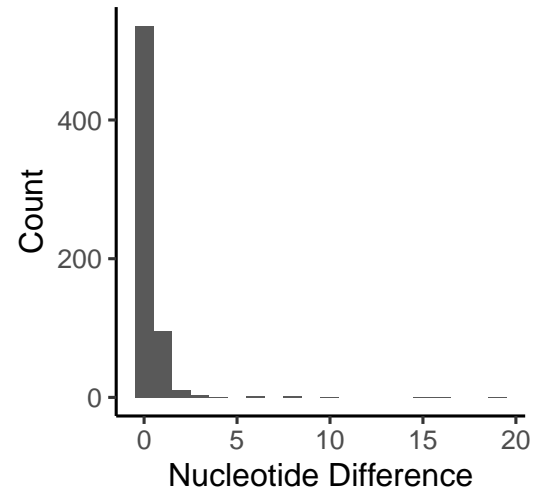
IGHV3-20*01

69 sequences assigned
55 (79.7%) exact matches, in which:
50 unique CDR3
5 unique J



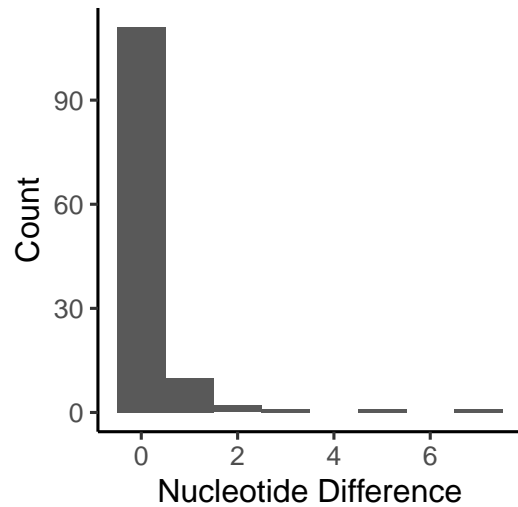
IGHV3-30-3*01

656 sequences assigned
536 (81.7%) exact matches, in which:
521 unique CDR3
6 unique J



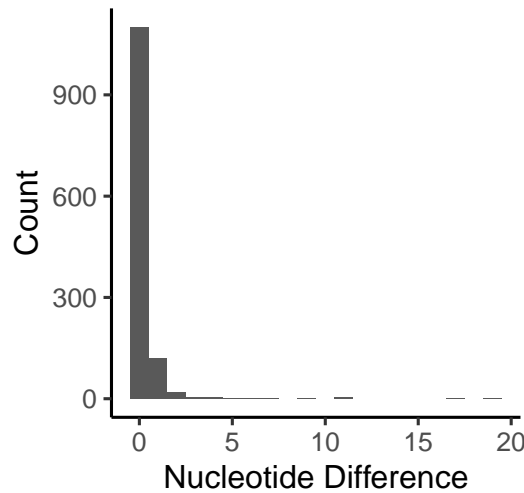
IGHV3-13*01

126 sequences assigned
111 (88.1%) exact matches, in which:
110 unique CDR3
5 unique J



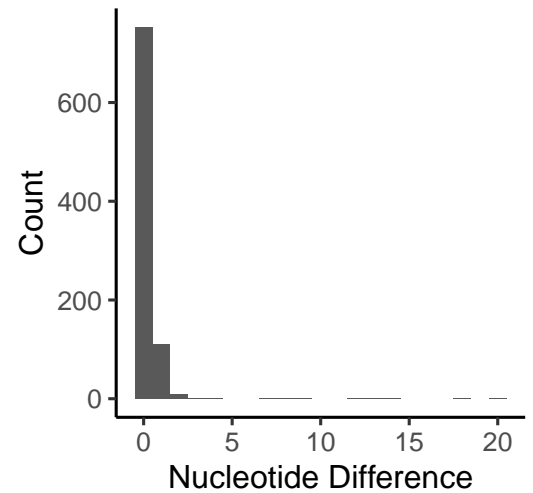
IGHV3-21*01

1261 sequences assigned
1101 (87.3%) exact matches, in which:
1057 unique CDR3
6 unique J



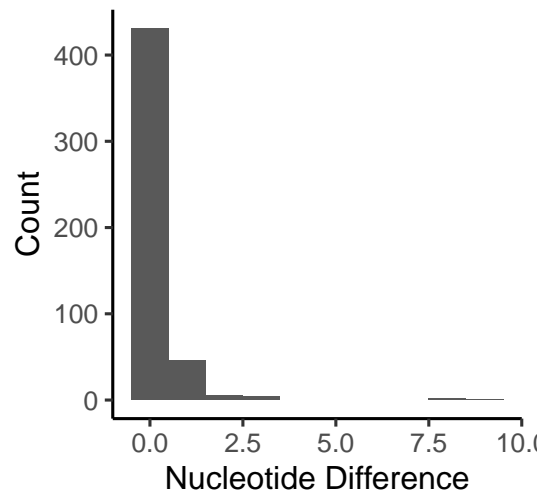
IGHV3-30*18

888 sequences assigned
753 (84.8%) exact matches, in which:
733 unique CDR3
6 unique J



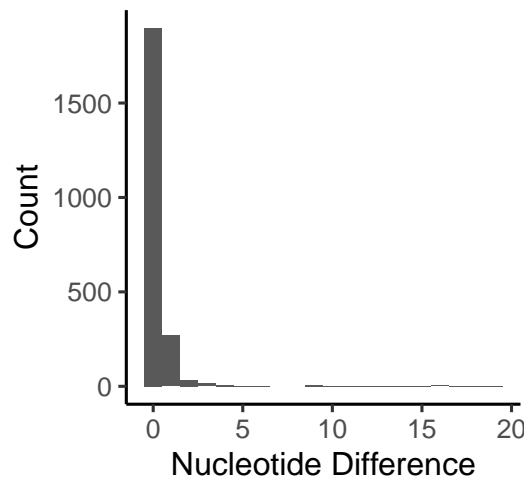
IGHV3-15*01

492 sequences assigned
431 (87.6%) exact matches, in which:
418 unique CDR3
6 unique J



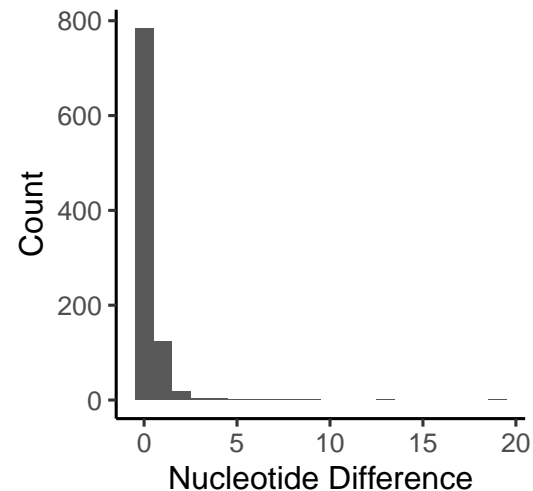
IGHV3-23*01

2279 sequences assigned
1897 (83.2%) exact matches, in which:
1833 unique CDR3
6 unique J



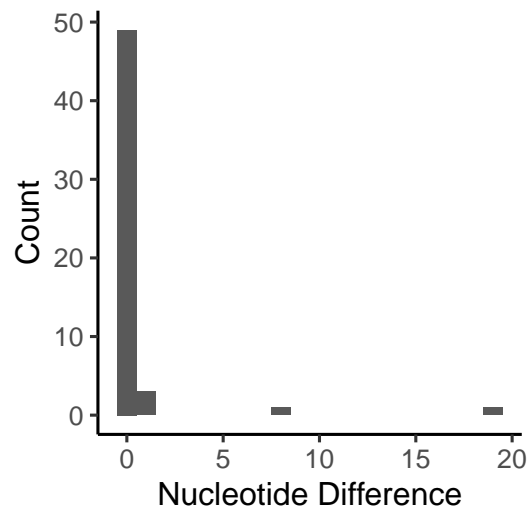
IGHV3-33*01

951 sequences assigned
784 (82.4%) exact matches, in which:
751 unique CDR3
6 unique J



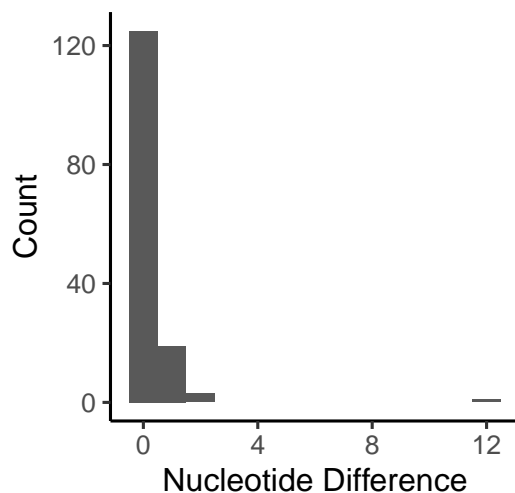
IGHV3-43*01

56 sequences assigned
49 (87.5%) exact matches, in which:
46 unique CDR3
5 unique J



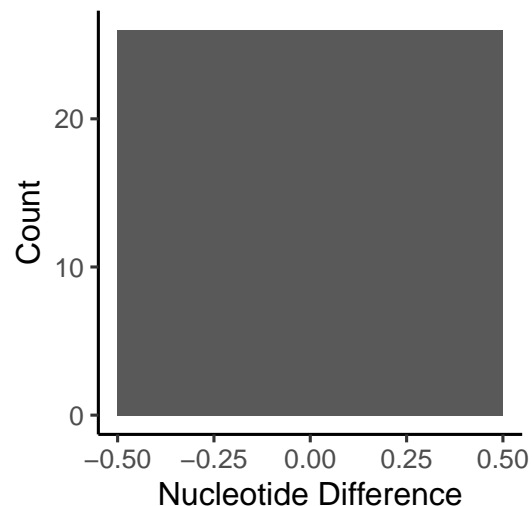
IGHV3-49*04

153 sequences assigned
125 (81.7%) exact matches, in which:
122 unique CDR3
6 unique J



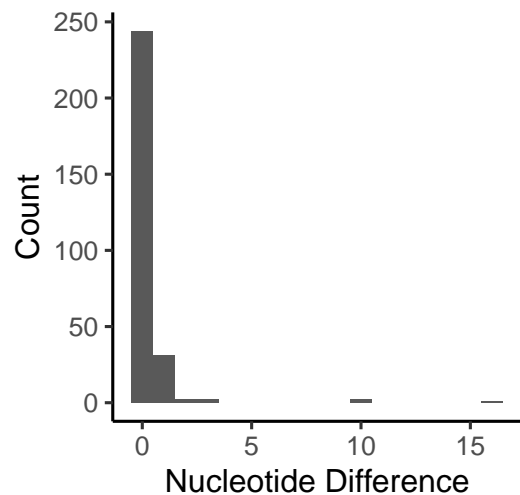
IGHV3-64*01

26 sequences assigned
26 (100%) exact matches, in which:
24 unique CDR3
4 unique J



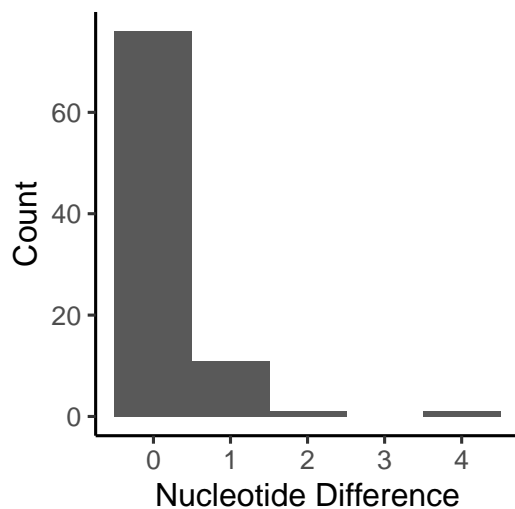
IGHV3-48*02

286 sequences assigned
244 (85.3%) exact matches, in which:
237 unique CDR3
6 unique J



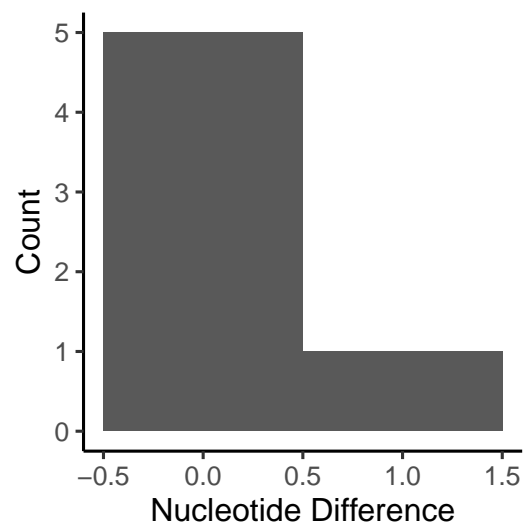
IGHV3-49*05

89 sequences assigned
76 (85.4%) exact matches, in which:
71 unique CDR3
5 unique J



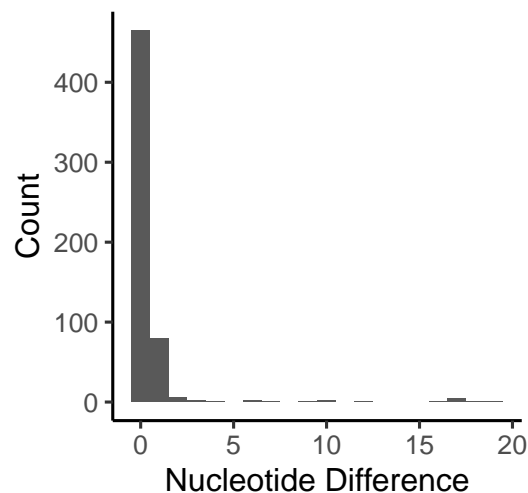
IGHV3-64*02

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



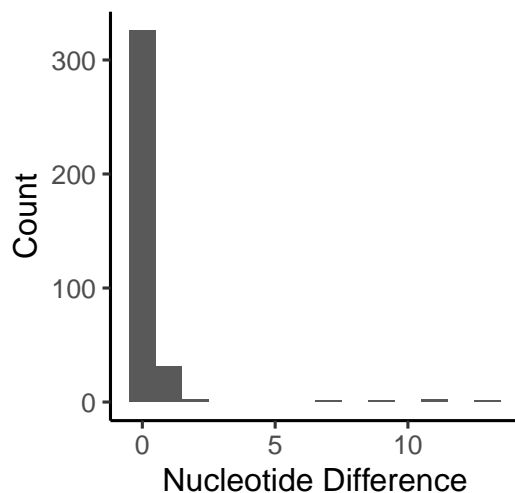
IGHV3-48*03

567 sequences assigned
465 (82%) exact matches, in which:
451 unique CDR3
6 unique J



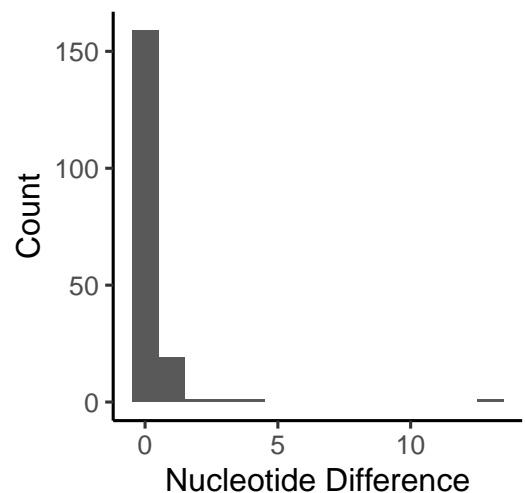
IGHV3-53*01

367 sequences assigned
326 (88.8%) exact matches, in which:
317 unique CDR3
6 unique J



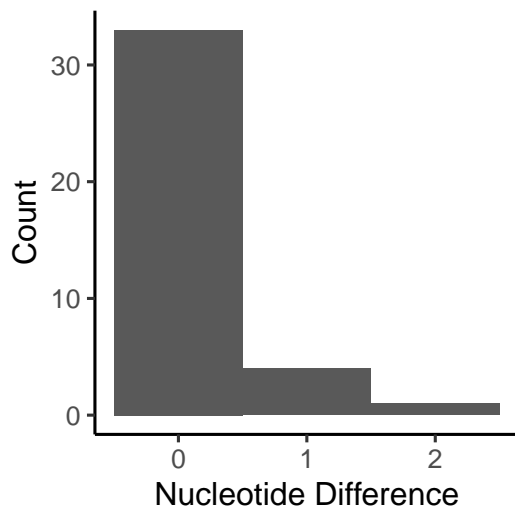
IGHV3-66*02

183 sequences assigned
159 (86.9%) exact matches, in which:
155 unique CDR3
6 unique J



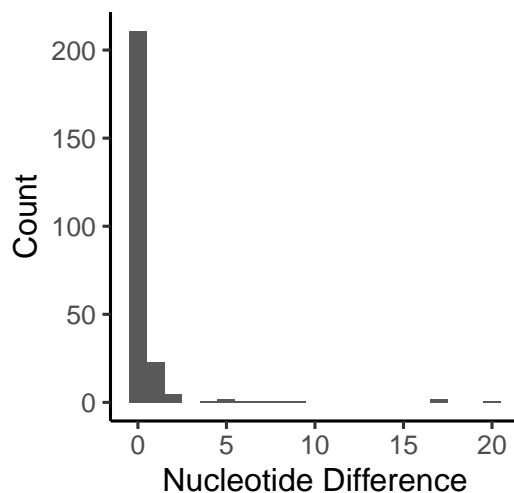
IGHV3-72*01

38 sequences assigned
33 (86.8%) exact matches, in which:
31 unique CDR3
5 unique J



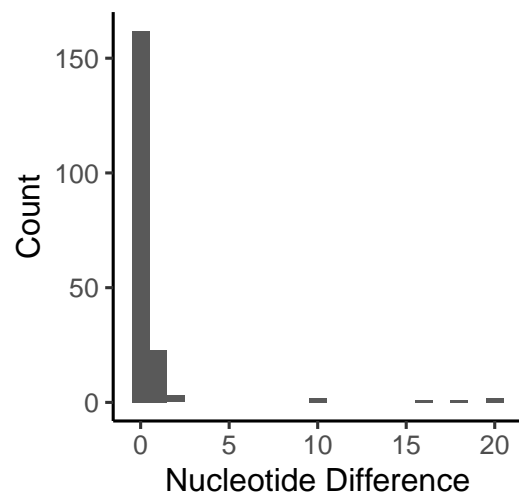
IGHV3-74*01

250 sequences assigned
211 (84.4%) exact matches, in which:
201 unique CDR3
6 unique J



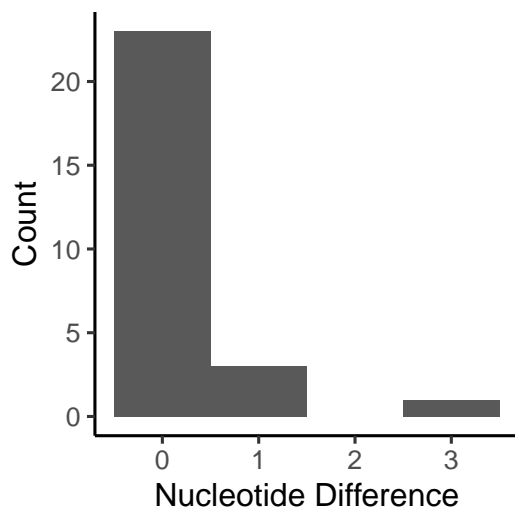
IGHV4-4*07

198 sequences assigned
162 (81.8%) exact matches, in which:
159 unique CDR3
6 unique J



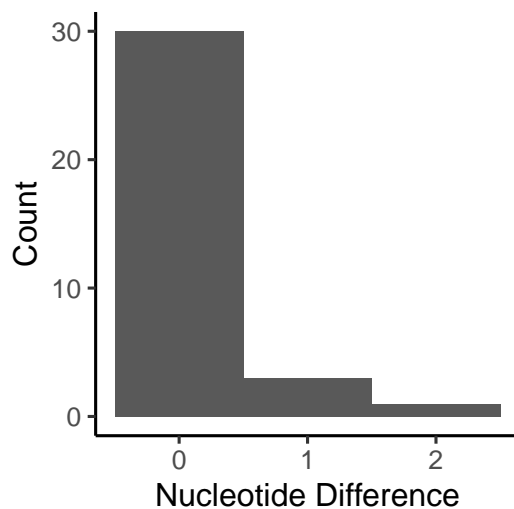
IGHV3-73*01

27 sequences assigned
23 (85.2%) exact matches, in which:
23 unique CDR3
3 unique J



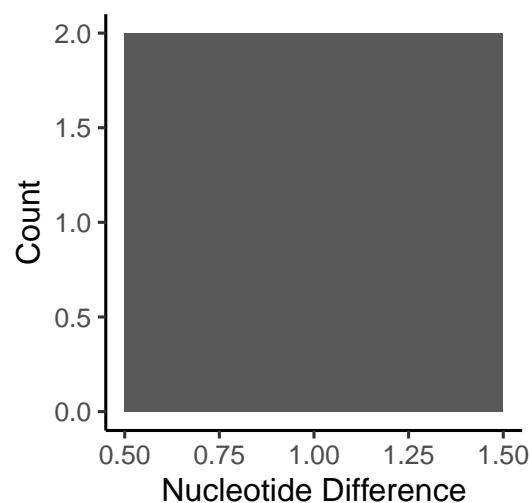
IGHV3-43D*04

34 sequences assigned
30 (88.2%) exact matches, in which:
29 unique CDR3
3 unique J



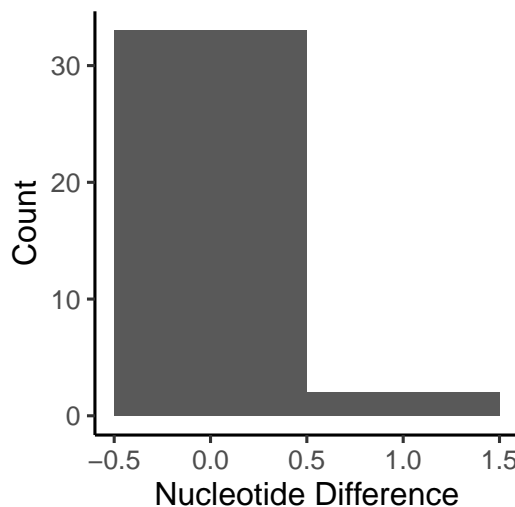
IGHV4-28*01

2 sequences assigned
No exact matches.



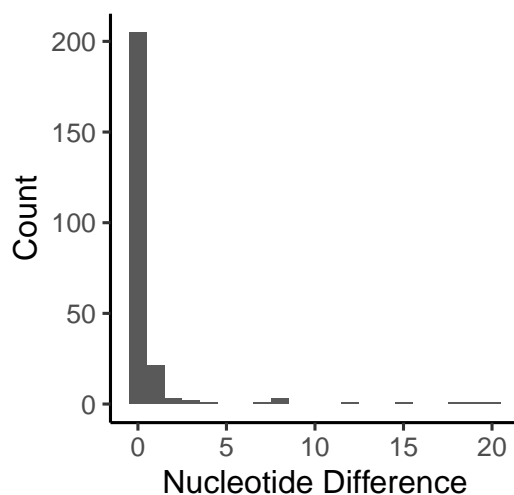
IGHV3-73*02

35 sequences assigned
33 (94.3%) exact matches, in which:
31 unique CDR3
6 unique J



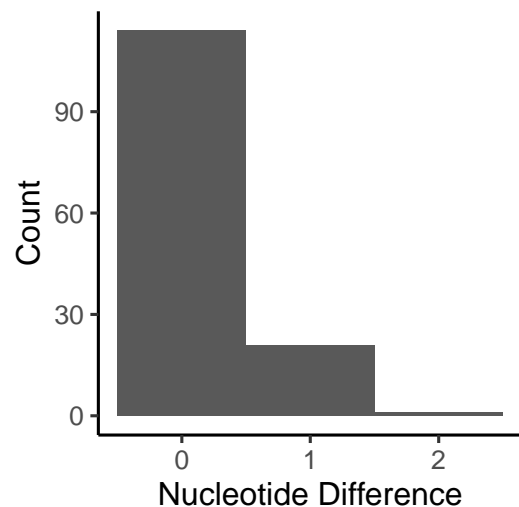
IGHV4-4*02

246 sequences assigned
205 (83.3%) exact matches, in which:
203 unique CDR3
6 unique J



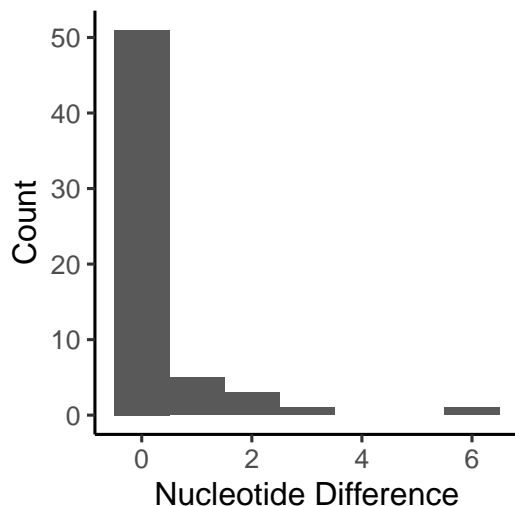
IGHV4-30-4*01

139 sequences assigned
114 (82%) exact matches, in which:
113 unique CDR3
5 unique J



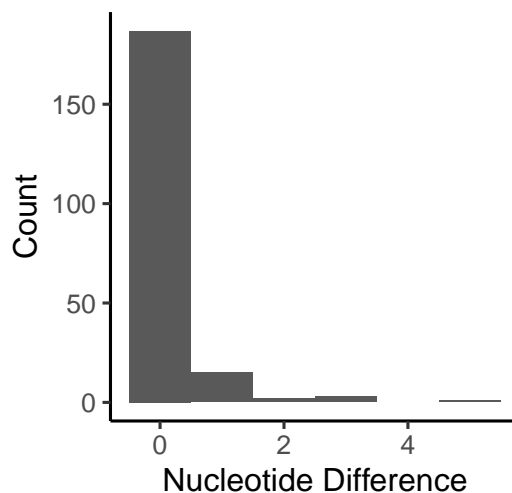
IGHV4-30-2*01

61 sequences assigned
51 (83.6%) exact matches, in which:
51 unique CDR3
6 unique J



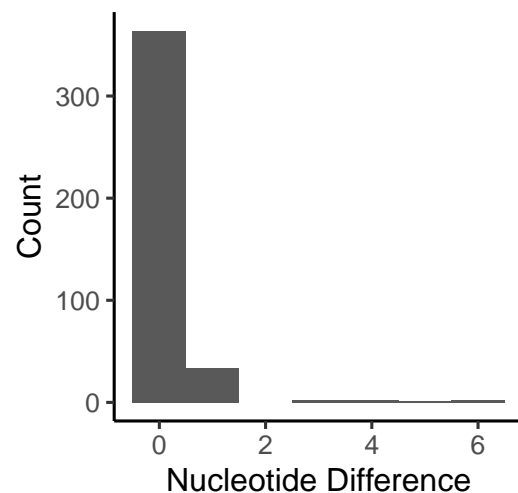
IGHV4-38-2*01

208 sequences assigned
187 (89.9%) exact matches, in which:
184 unique CDR3
6 unique J



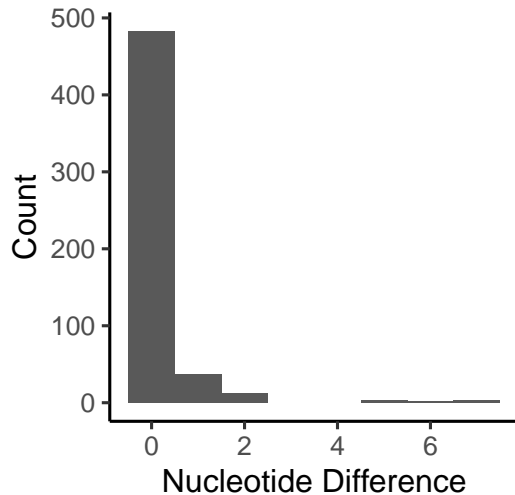
IGHV4-59*01

411 sequences assigned
364 (88.6%) exact matches, in which:
357 unique CDR3
6 unique J



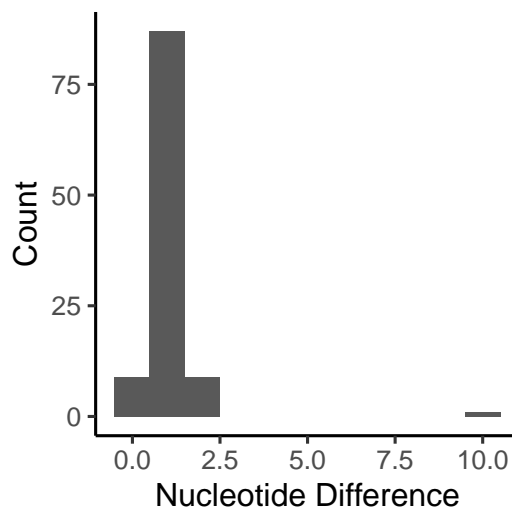
IGHV4-31*03

540 sequences assigned
483 (89.4%) exact matches, in which:
475 unique CDR3
6 unique J



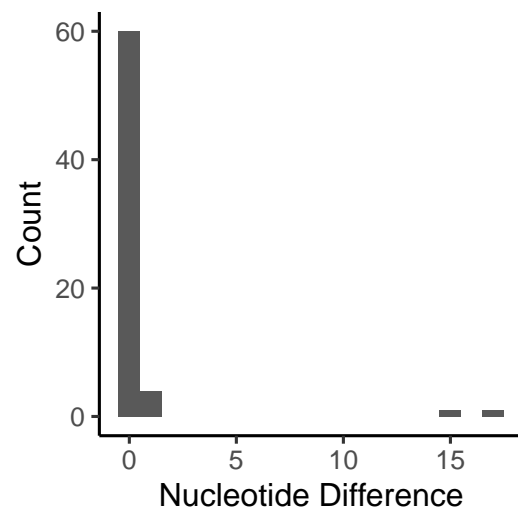
IGHV4-38-2*02

106 sequences assigned
9 (8.5%) exact matches, in which:
9 unique CDR3
4 unique J



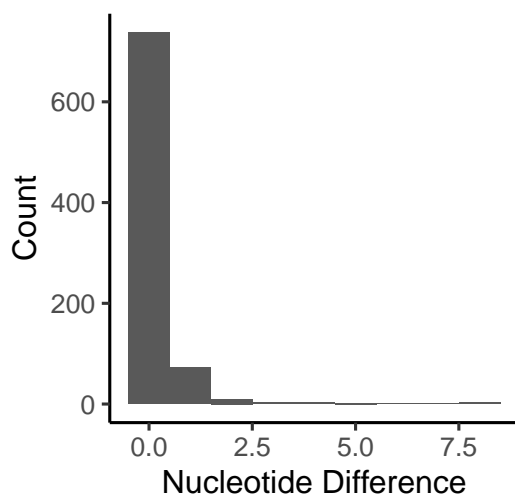
IGHV4-61*01

66 sequences assigned
60 (90.9%) exact matches, in which:
60 unique CDR3
5 unique J



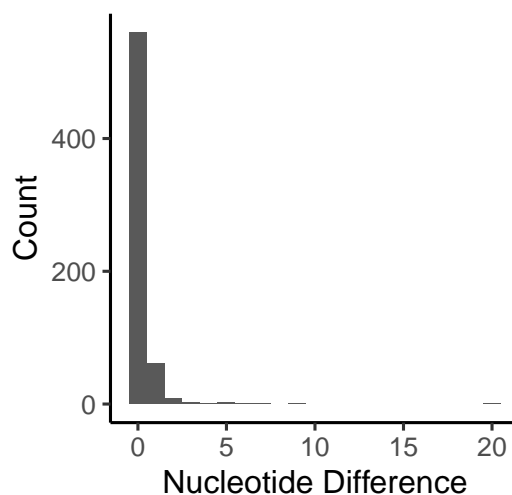
IGHV4-34*01

834 sequences assigned
738 (88.5%) exact matches, in which:
722 unique CDR3
6 unique J



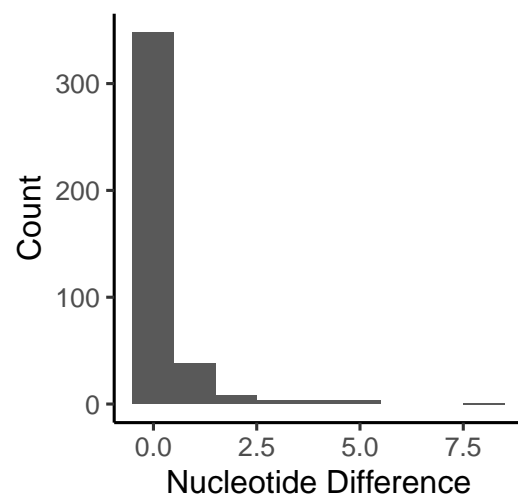
IGHV4-39*01

640 sequences assigned
560 (87.5%) exact matches, in which:
551 unique CDR3
6 unique J



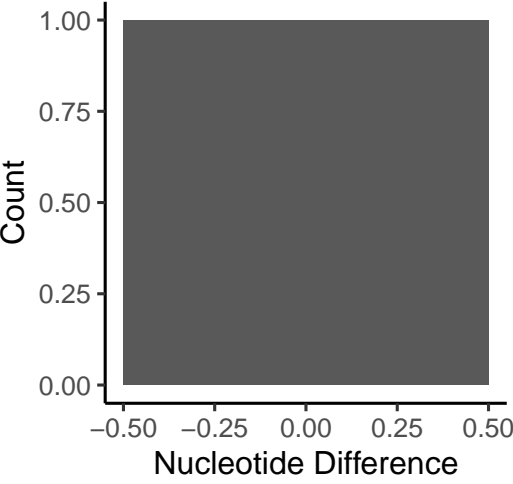
IGHV4-61*02

406 sequences assigned
348 (85.7%) exact matches, in which:
343 unique CDR3
6 unique J



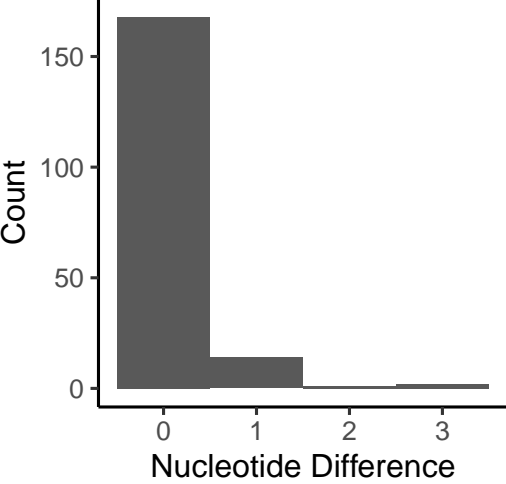
IGHV1/OR15-4*01

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



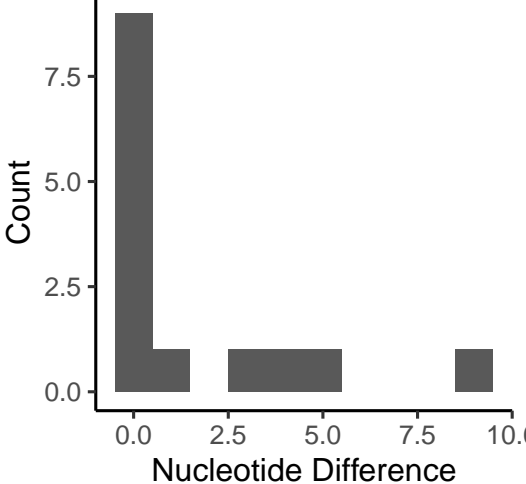
IGHV6-1*01

185 sequences assigned
168 (90.8%) exact matches, in which:
165 unique CDR3
6 unique J



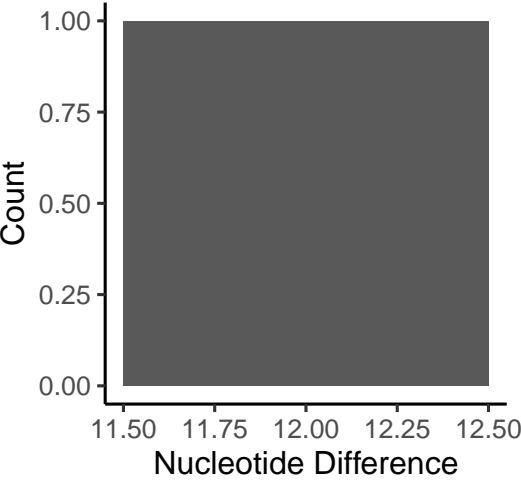
IGHV7-4-1*01

14 sequences assigned
9 (64.3%) exact matches, in which:
9 unique CDR3
3 unique J



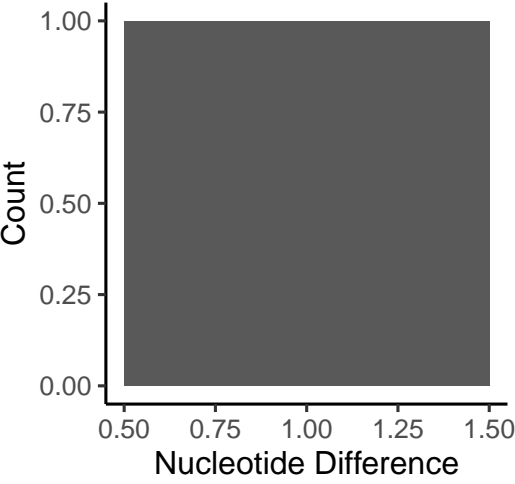
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



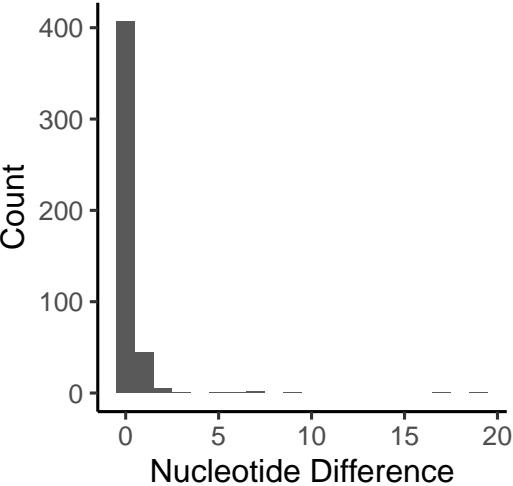
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



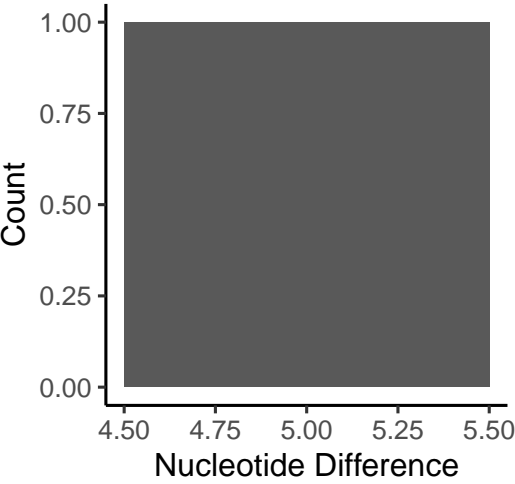
IGHV5-51*01

464 sequences assigned
407 (87.7%) exact matches, in which:
398 unique CDR3
6 unique J



IGHV3/OR16-15*02

1 sequences assigned
No exact matches.



IGHV1-69*08_C191T

