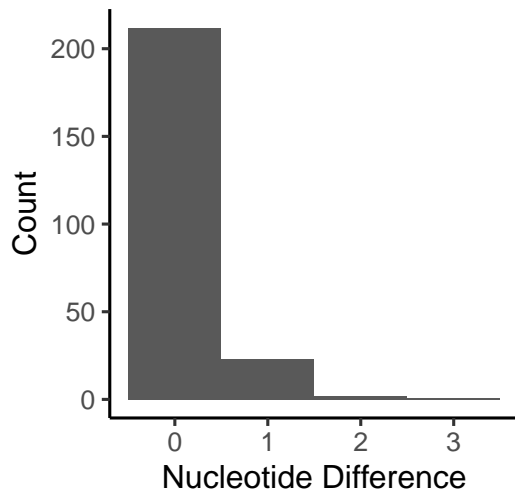


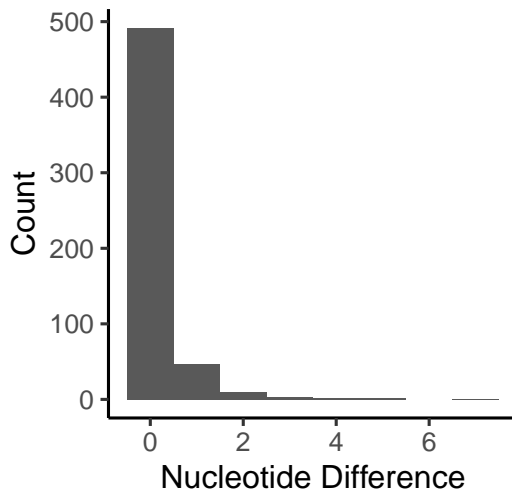
IGHV1-2*04

238 sequences assigned
212 (89.1%) exact matches, in which:
205 unique CDR3
6 unique J



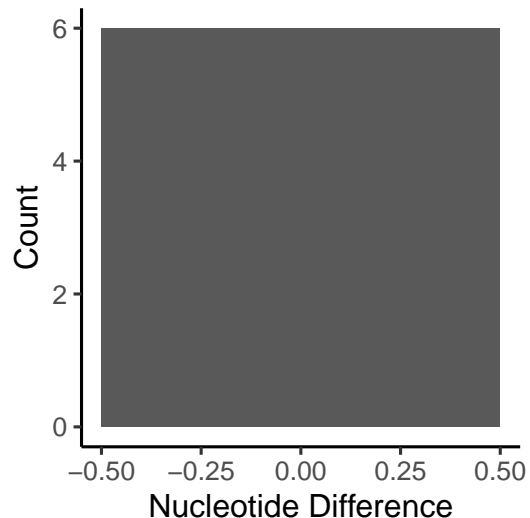
IGHV1-8*01

557 sequences assigned
492 (88.3%) exact matches, in which:
472 unique CDR3
6 unique J



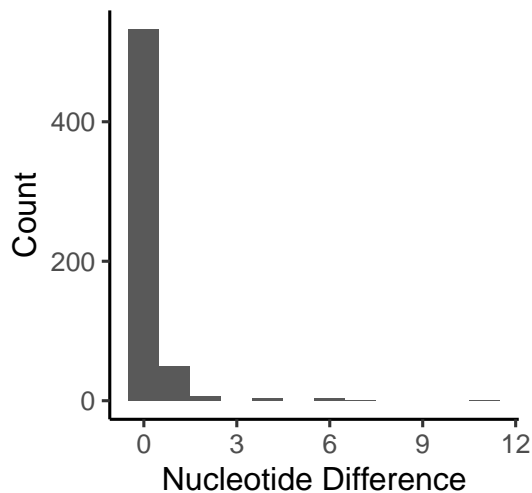
IGHV1-45*02

6 sequences assigned
6 (100%) exact matches, in which:
5 unique CDR3
3 unique J



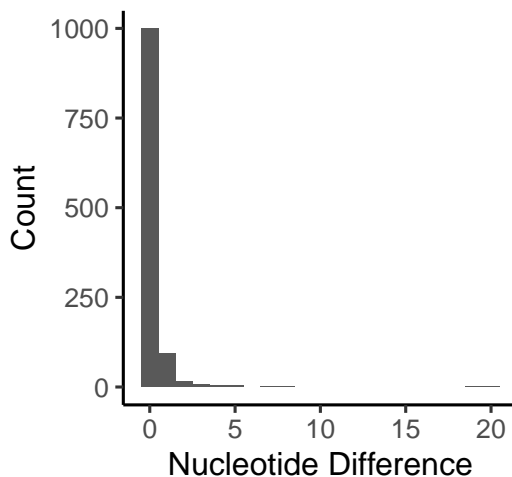
IGHV1-2*06

598 sequences assigned
533 (89.1%) exact matches, in which:
514 unique CDR3
6 unique J



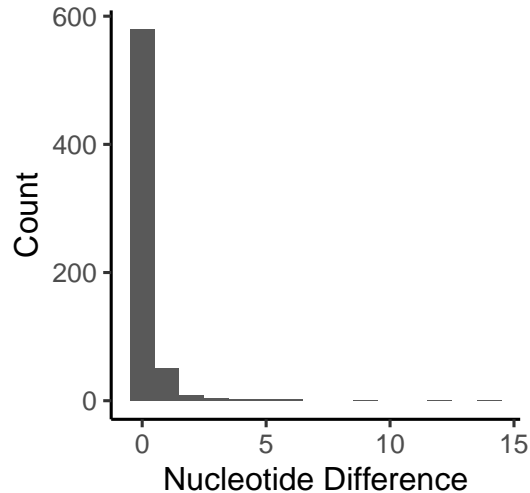
IGHV1-18*01

1128 sequences assigned
999 (88.6%) exact matches, in which:
955 unique CDR3
6 unique J



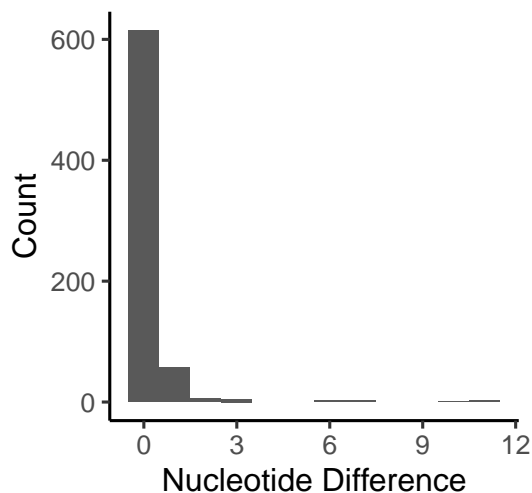
IGHV1-46*01

654 sequences assigned
580 (88.7%) exact matches, in which:
562 unique CDR3
6 unique J



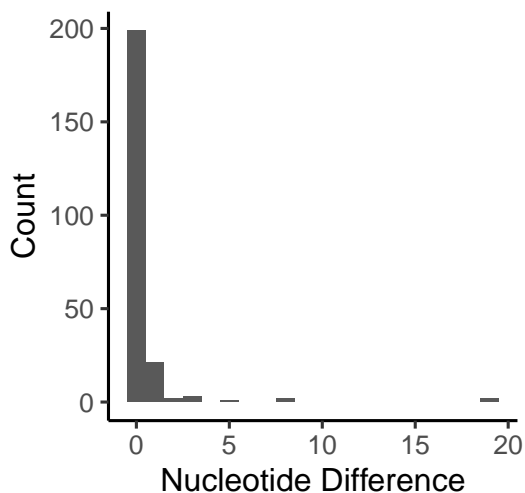
IGHV1-3*01

692 sequences assigned
615 (88.9%) exact matches, in which:
593 unique CDR3
6 unique J



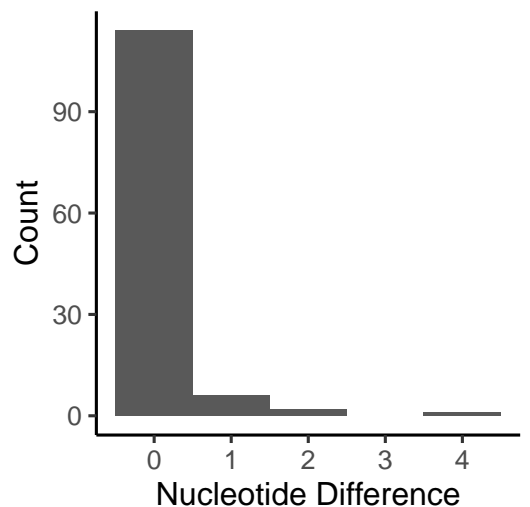
IGHV1-24*01

230 sequences assigned
199 (86.5%) exact matches, in which:
194 unique CDR3
6 unique J



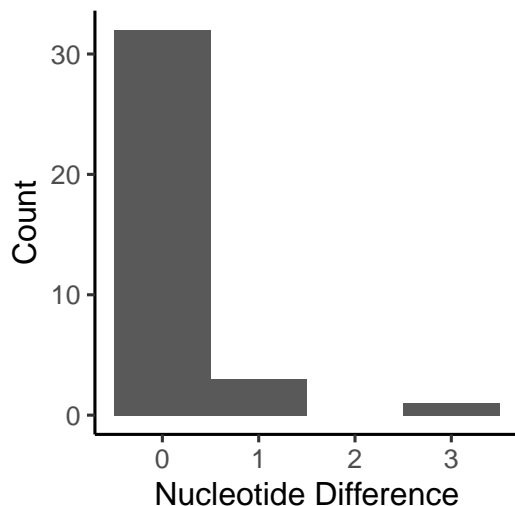
IGHV1-58*01

123 sequences assigned
114 (92.7%) exact matches, in which:
109 unique CDR3
5 unique J



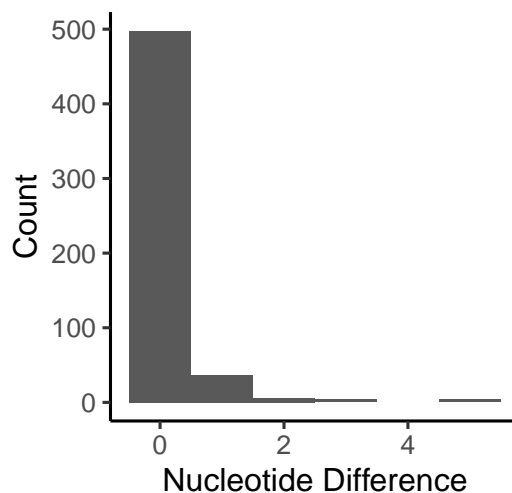
IGHV1-69-2*01

37 sequences assigned
32 (86.5%) exact matches, in which:
32 unique CDR3
5 unique J



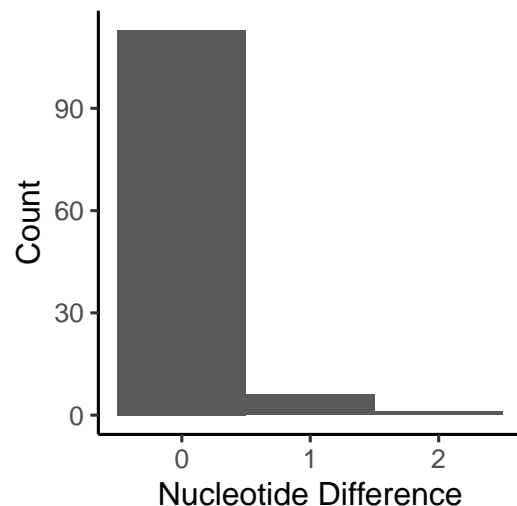
IGHV2-5*02

549 sequences assigned
498 (90.7%) exact matches, in which:
482 unique CDR3
6 unique J



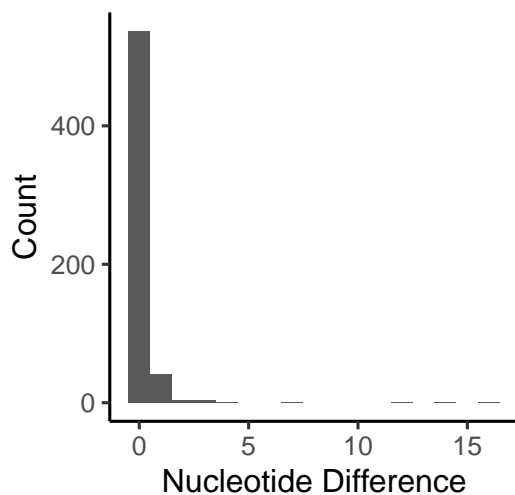
IGHV2-70*15

120 sequences assigned
113 (94.2%) exact matches, in which:
110 unique CDR3
6 unique J



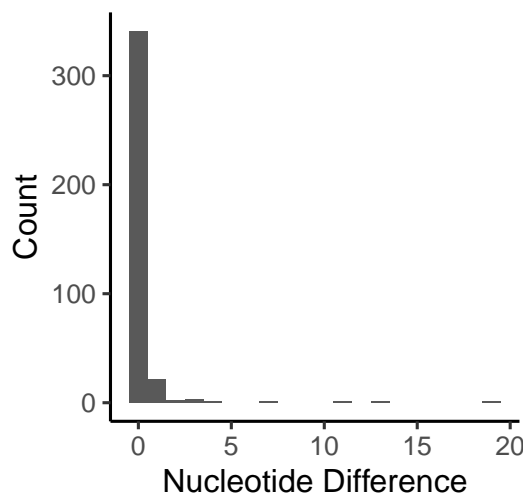
IGHV1-69*06

590 sequences assigned
537 (91%) exact matches, in which:
507 unique CDR3
6 unique J



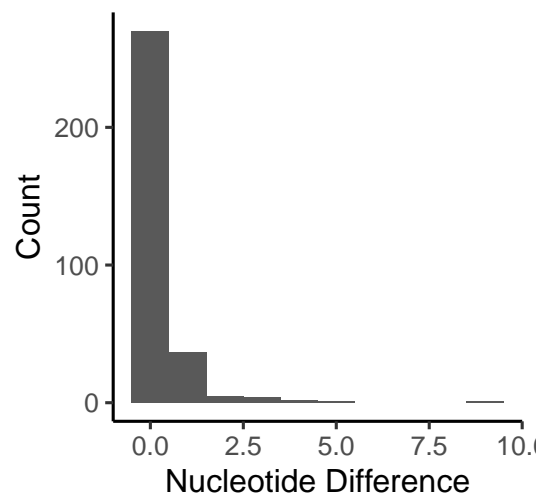
IGHV2-26*01

373 sequences assigned
341 (91.4%) exact matches, in which:
321 unique CDR3
6 unique J



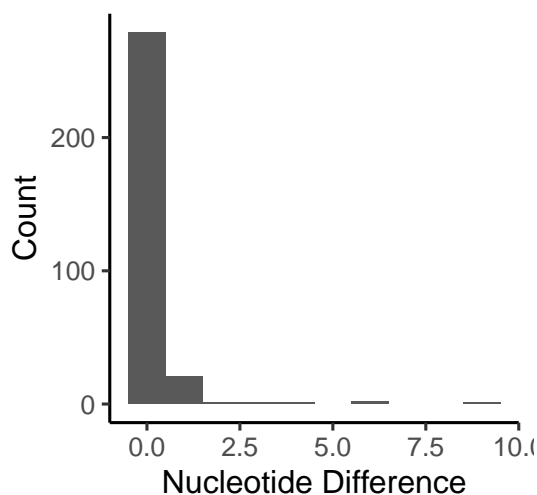
IGHV3-7*01

320 sequences assigned
270 (84.4%) exact matches, in which:
258 unique CDR3
6 unique J



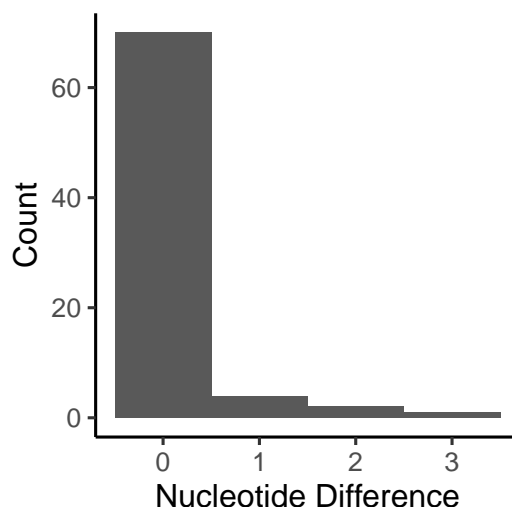
IGHV2-5*01

306 sequences assigned
279 (91.2%) exact matches, in which:
269 unique CDR3
6 unique J



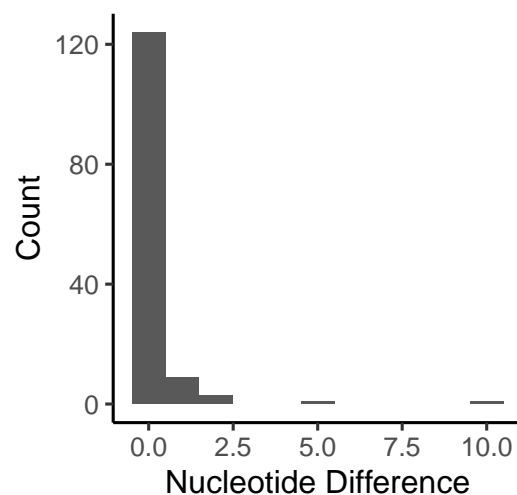
IGHV2-70*01

77 sequences assigned
70 (90.9%) exact matches, in which:
70 unique CDR3
5 unique J



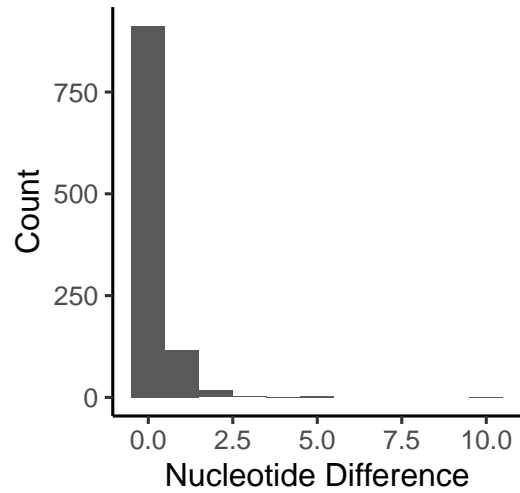
IGHV3-7*05

138 sequences assigned
124 (89.9%) exact matches, in which:
119 unique CDR3
6 unique J



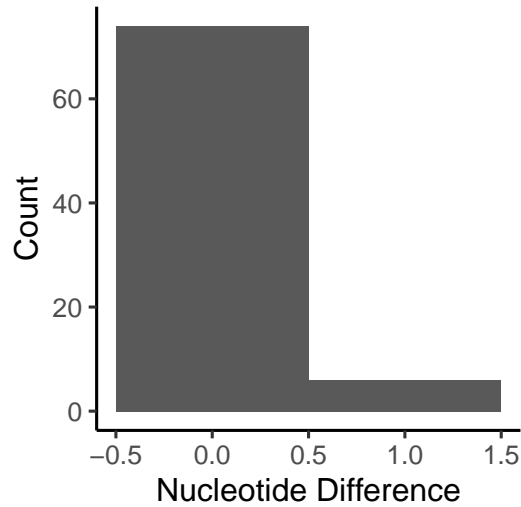
IGHV3-9*01

1054 sequences assigned
913 (86.6%) exact matches, in which:
860 unique CDR3
6 unique J



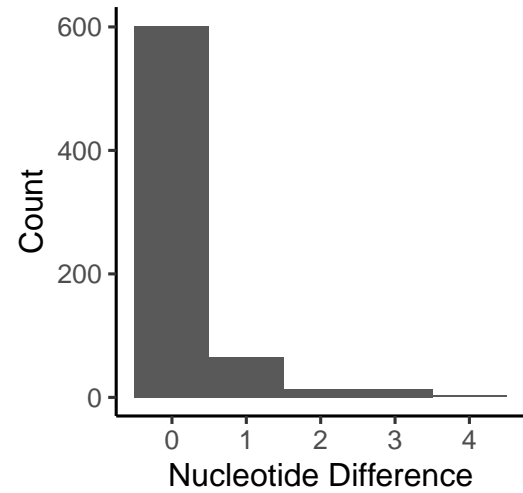
IGHV3-13*01

80 sequences assigned
74 (92.5%) exact matches, in which:
72 unique CDR3
5 unique J



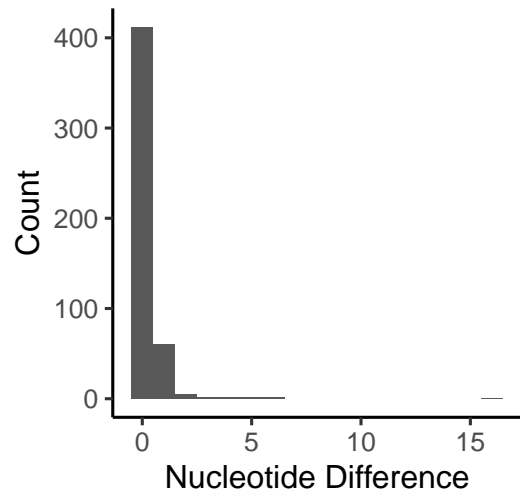
IGHV3-15*07

697 sequences assigned
602 (86.4%) exact matches, in which:
586 unique CDR3
6 unique J



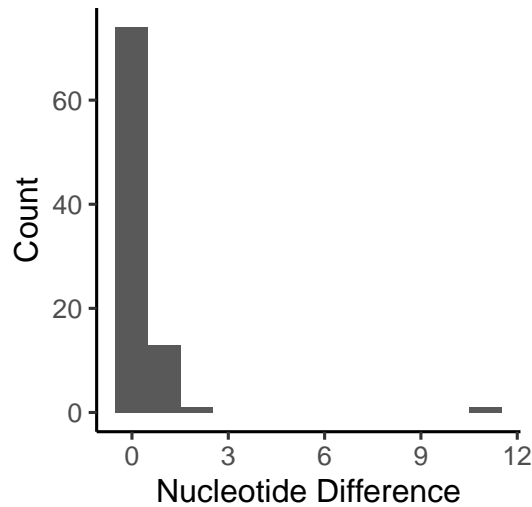
IGHV3-11*01

486 sequences assigned
412 (84.8%) exact matches, in which:
401 unique CDR3
6 unique J



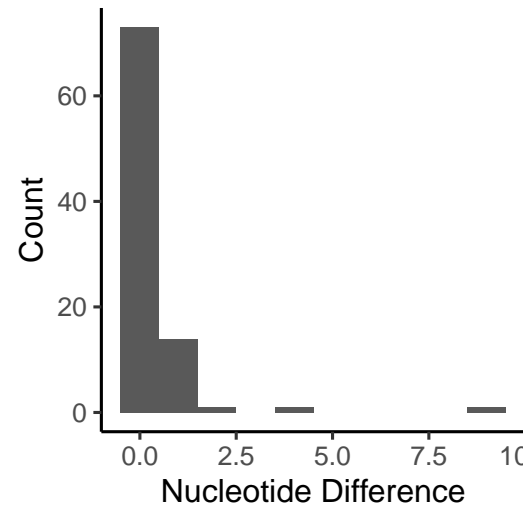
IGHV3-13*01_G290A_T301

89 sequences assigned
74 (83.1%) exact matches, in which:
70 unique CDR3
5 unique J



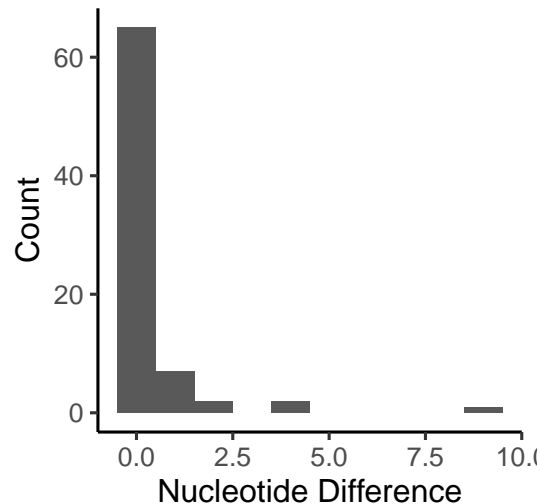
IGHV3-20*01

90 sequences assigned
73 (81.1%) exact matches, in which:
68 unique CDR3
5 unique J



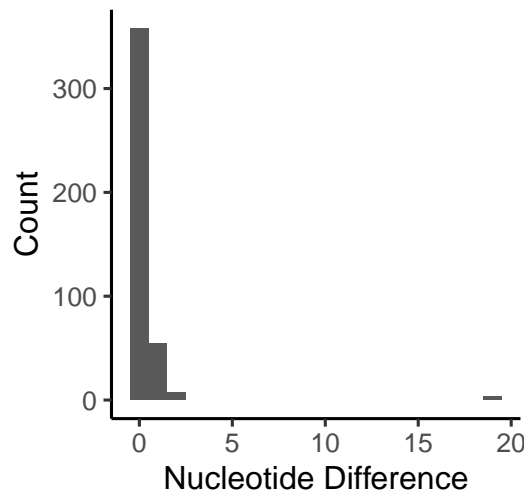
IGHV3-11*06

77 sequences assigned
65 (84.4%) exact matches, in which:
62 unique CDR3
5 unique J



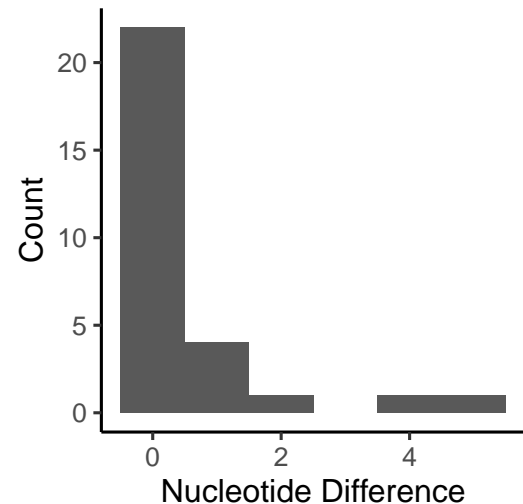
IGHV3-15*01

431 sequences assigned
358 (83.1%) exact matches, in which:
347 unique CDR3
6 unique J



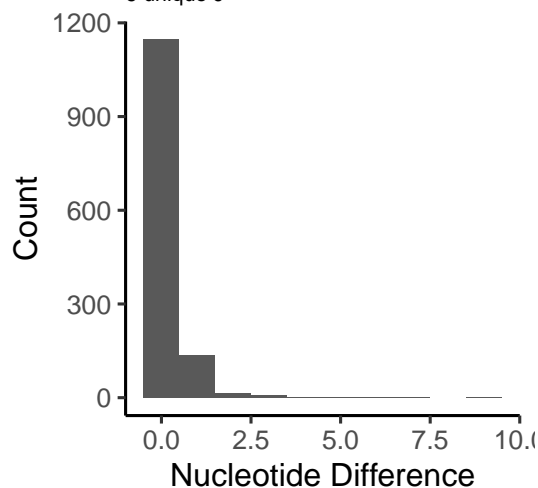
IGHV3-20*04

29 sequences assigned
22 (75.9%) exact matches, in which:
22 unique CDR3
6 unique J



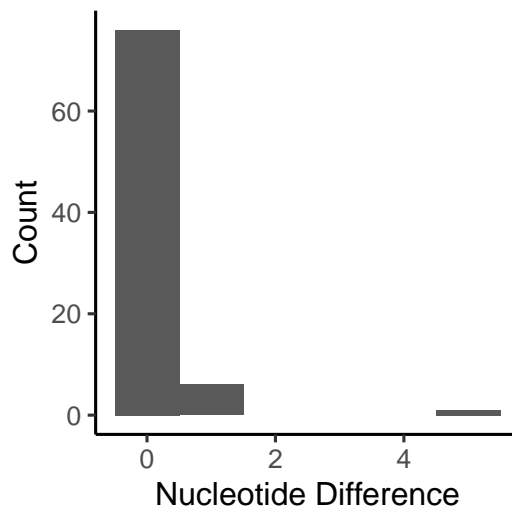
IGHV3-21*01

1319 sequences assigned
1147 (87%) exact matches, in which:
1090 unique CDR3
6 unique J



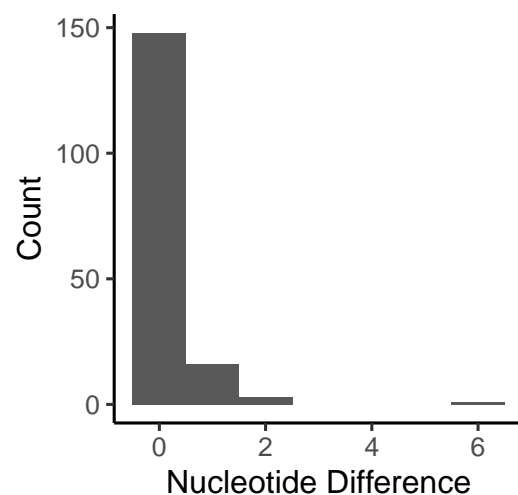
IGHV3-43*01

83 sequences assigned
76 (91.6%) exact matches, in which:
74 unique CDR3
5 unique J



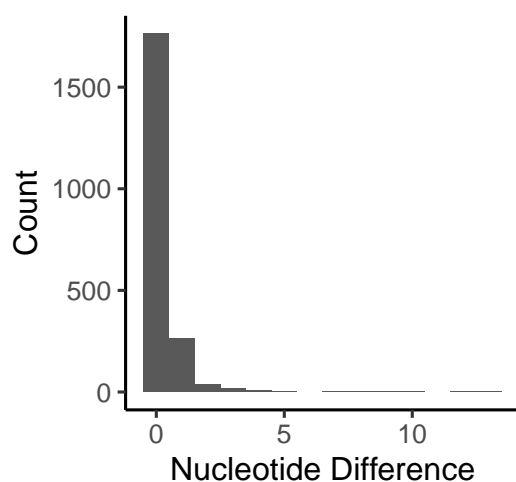
IGHV3-49*03

168 sequences assigned
148 (88.1%) exact matches, in which:
141 unique CDR3
6 unique J



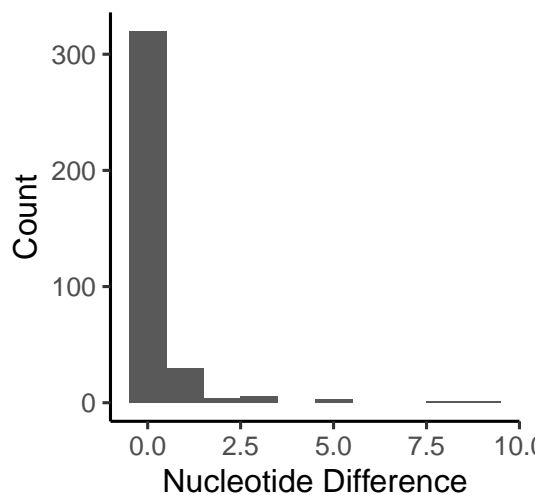
IGHV3-30-3*01

2102 sequences assigned
1763 (83.9%) exact matches, in which:
1698 unique CDR3
6 unique J



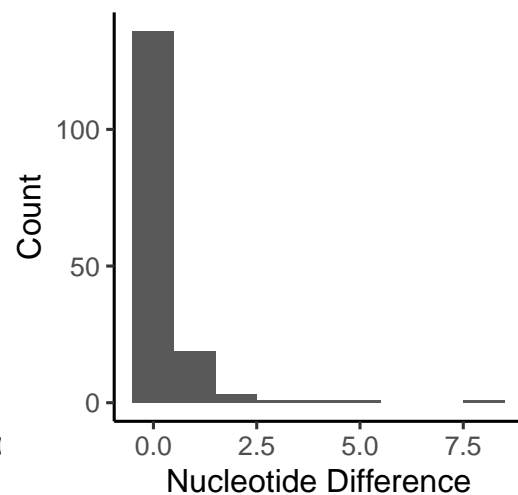
IGHV3-48*01

365 sequences assigned
320 (87.7%) exact matches, in which:
305 unique CDR3
6 unique J



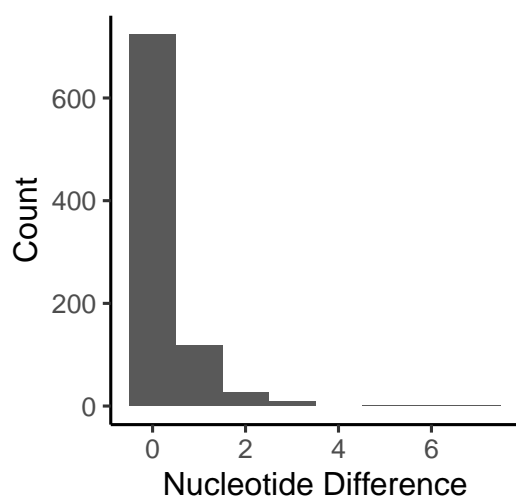
IGHV3-49*04

162 sequences assigned
136 (84%) exact matches, in which:
134 unique CDR3
6 unique J



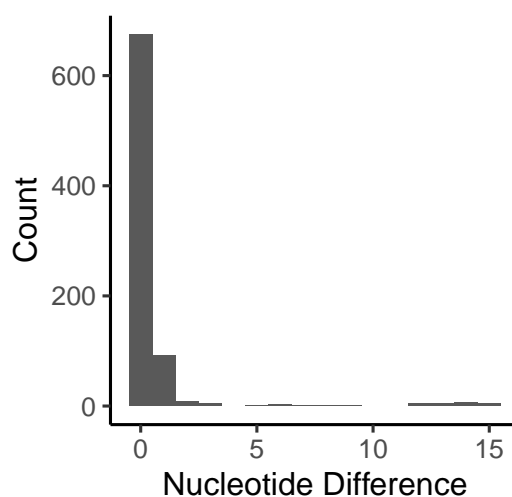
IGHV3-33*01

878 sequences assigned
724 (82.5%) exact matches, in which:
692 unique CDR3
6 unique J



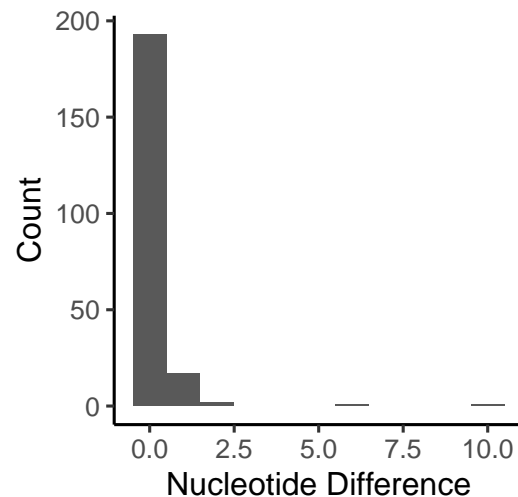
IGHV3-48*03

810 sequences assigned
675 (83.3%) exact matches, in which:
645 unique CDR3
6 unique J



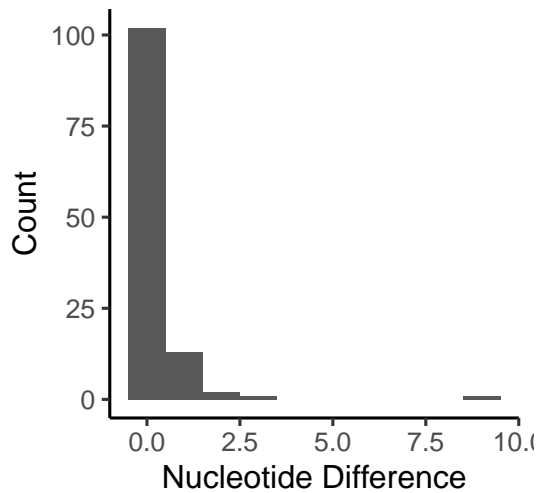
IGHV3-53*01

214 sequences assigned
193 (90.2%) exact matches, in which:
182 unique CDR3
6 unique J



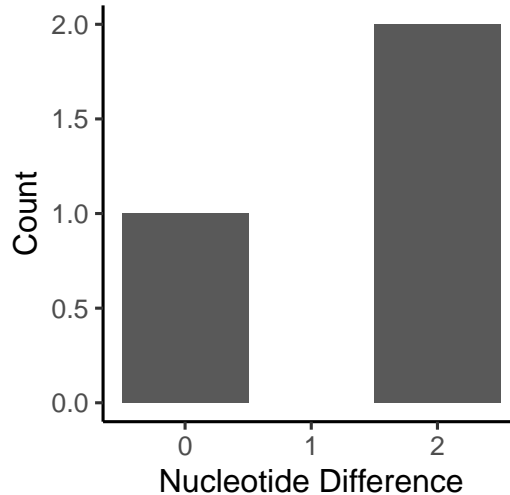
IGHV3–53*02

119 sequences assigned
102 (85.7%) exact matches, in which:
99 unique CDR3
5 unique J



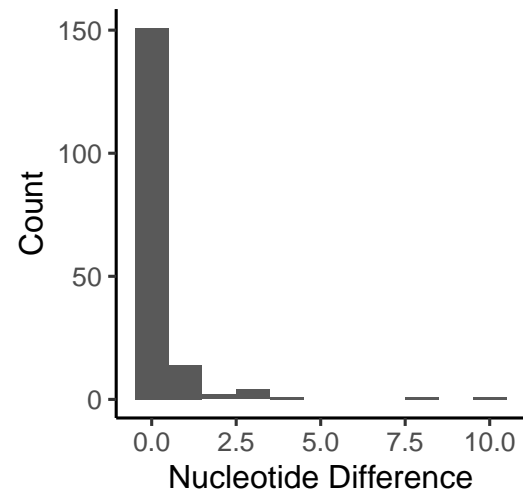
IGHV3–71*03

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



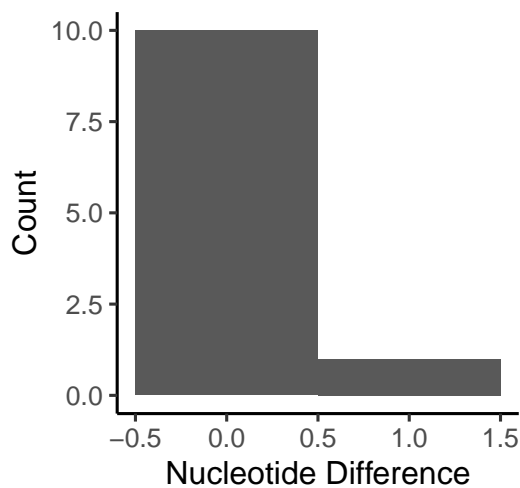
IGHV3–74*01

174 sequences assigned
151 (86.8%) exact matches, in which:
146 unique CDR3
6 unique J



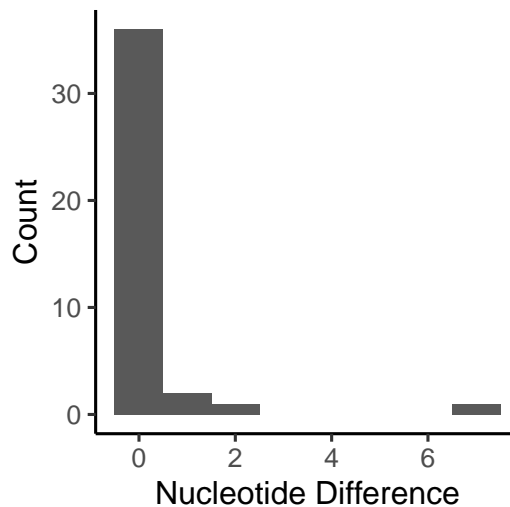
IGHV3–64*02

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
4 unique J



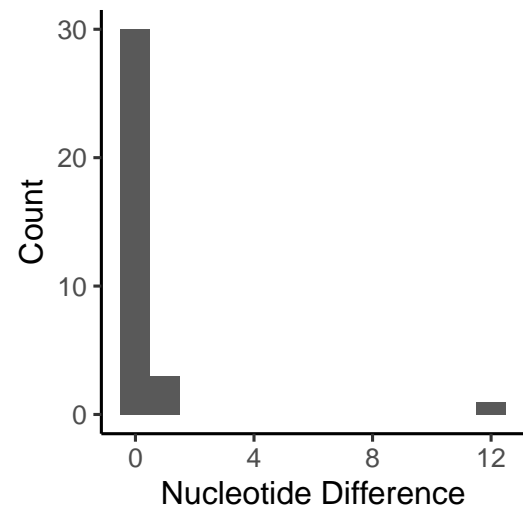
IGHV3–72*01

40 sequences assigned
36 (90%) exact matches, in which:
34 unique CDR3
4 unique J



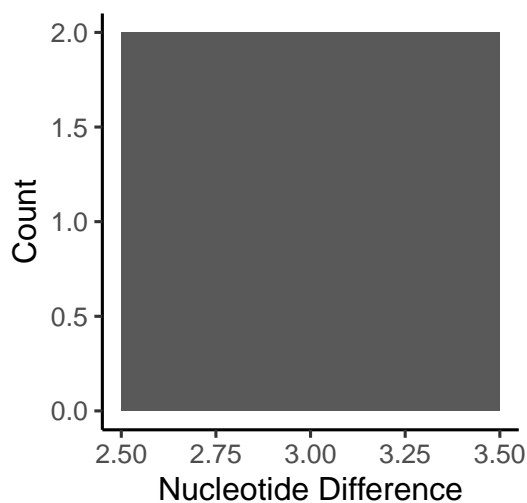
IGHV3–43D*04

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



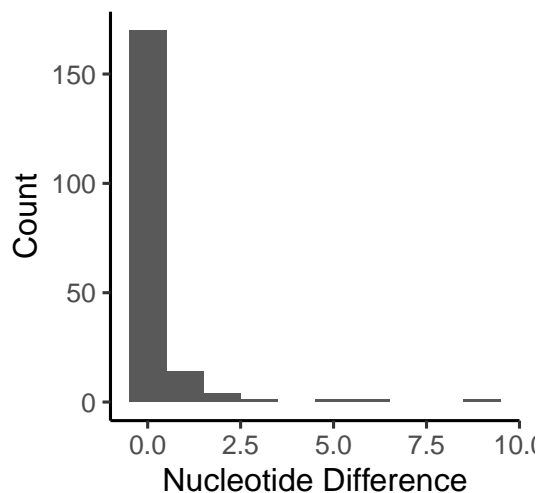
IGHV3–64*04

2 sequences assigned
No exact matches.



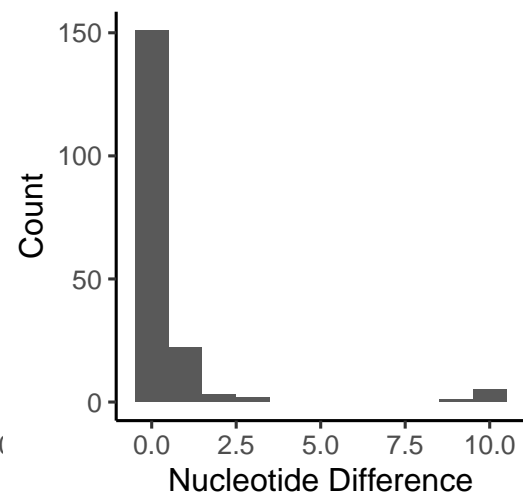
IGHV3–73*02

192 sequences assigned
170 (88.5%) exact matches, in which:
165 unique CDR3
6 unique J



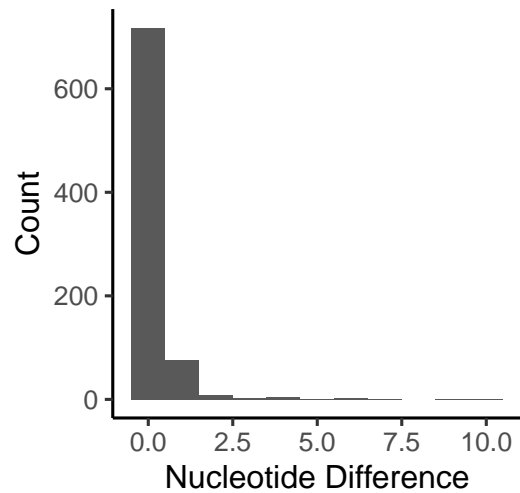
IGHV3–64D*08

184 sequences assigned
151 (82.1%) exact matches, in which:
143 unique CDR3
6 unique J



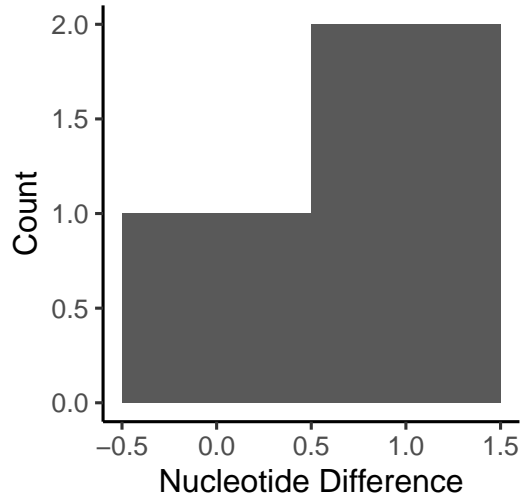
IGHV4-4*02

816 sequences assigned
718 (88%) exact matches, in which:
701 unique CDR3
6 unique J



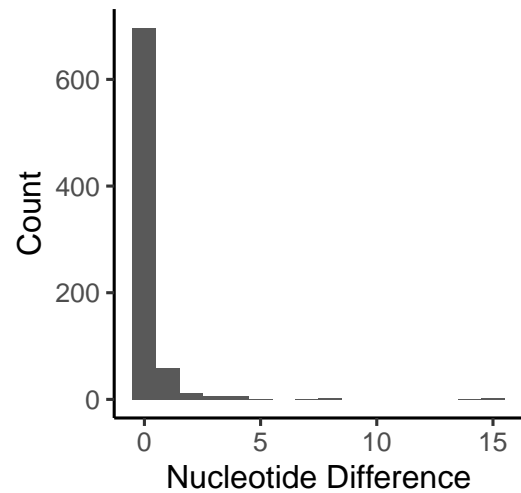
IGHV4-28*04

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



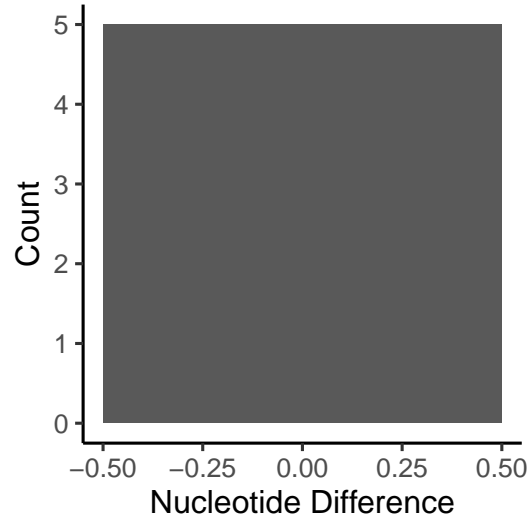
IGHV4-31*03

788 sequences assigned
697 (88.5%) exact matches, in which:
669 unique CDR3
6 unique J



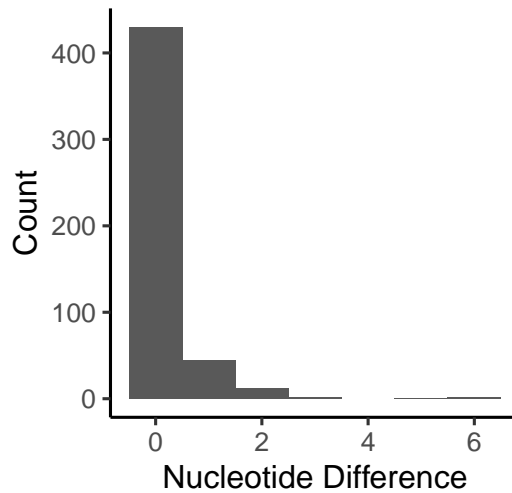
IGHV4-28*01

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



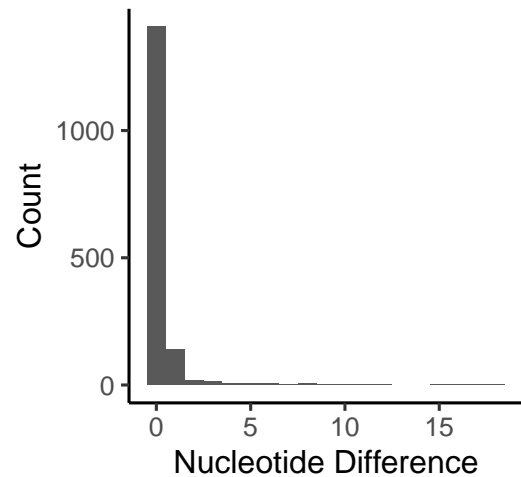
IGHV4-30-2*01

491 sequences assigned
430 (87.6%) exact matches, in which:
417 unique CDR3
6 unique J



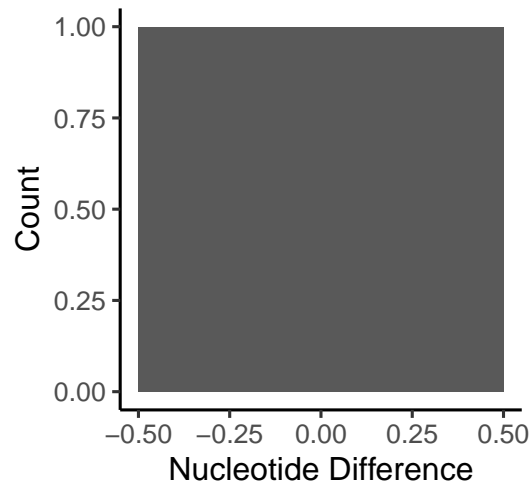
IGHV4-34*01

1627 sequences assigned
1408 (86.5%) exact matches, in which:
1319 unique CDR3
6 unique J



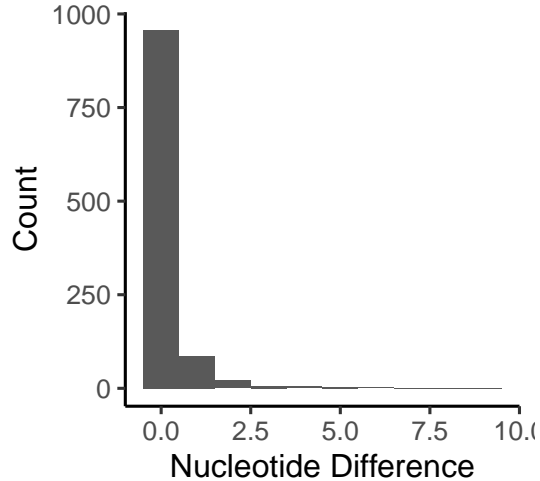
IGHV4-28*03

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



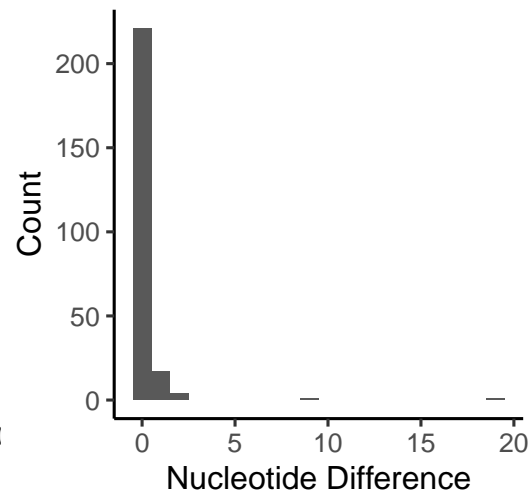
IGHV4-30-4*01

1083 sequences assigned
957 (88.4%) exact matches, in which:
926 unique CDR3
6 unique J



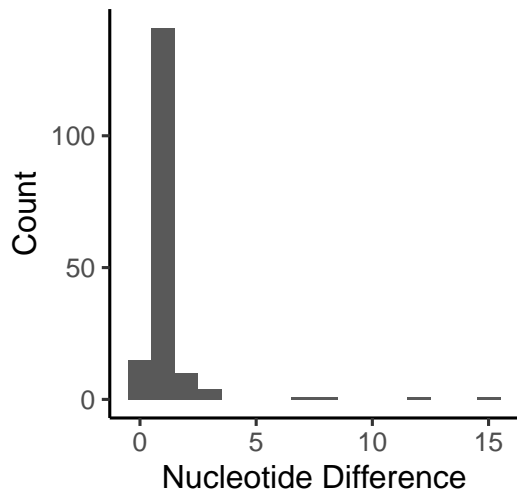
IGHV4-38-2*01

244 sequences assigned
221 (90.6%) exact matches, in which:
207 unique CDR3
6 unique J



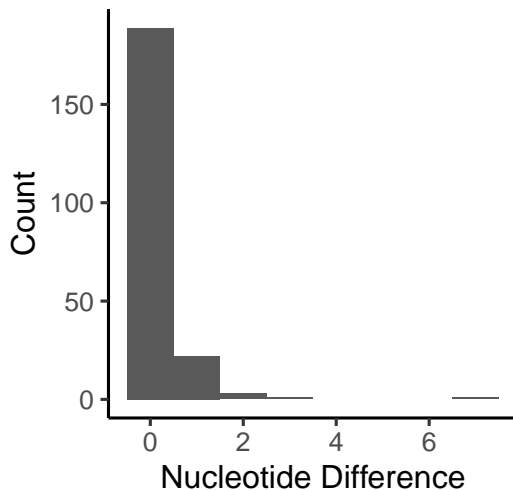
IGHV4-38-2*02

174 sequences assigned
15 (8.6%) exact matches, in which:
15 unique CDR3
4 unique J



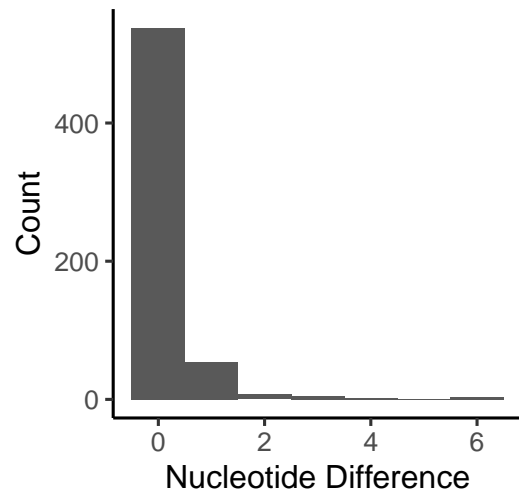
IGHV4-61*01

218 sequences assigned
189 (86.7%) exact matches, in which:
188 unique CDR3
5 unique J



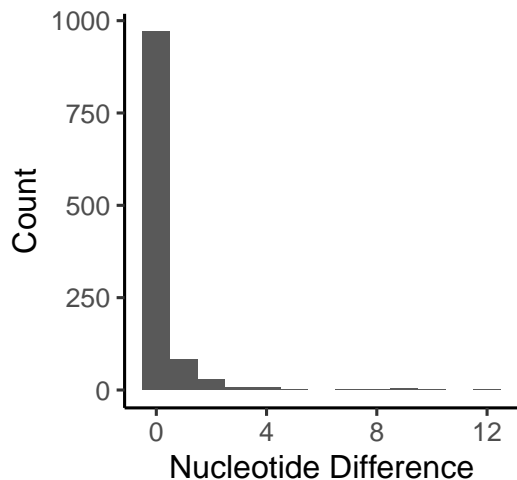
IGHV5-51*01

611 sequences assigned
538 (88.1%) exact matches, in which:
519 unique CDR3
6 unique J



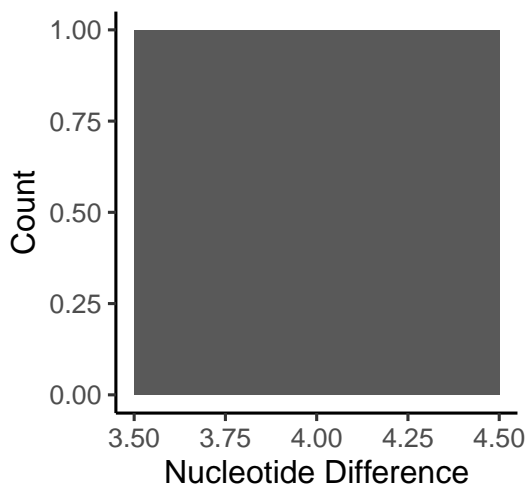
IGHV4-39*01

1112 sequences assigned
970 (87.2%) exact matches, in which:
917 unique CDR3
6 unique J



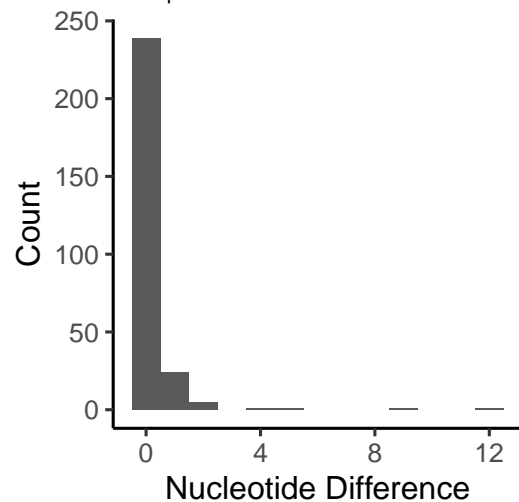
IGHV1/OR15-4*01

1 sequences assigned
No exact matches.



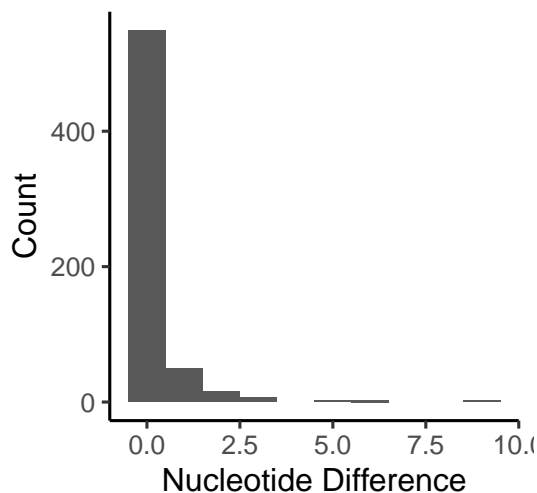
IGHV6-1*01

272 sequences assigned
239 (87.9%) exact matches, in which:
220 unique CDR3
6 unique J



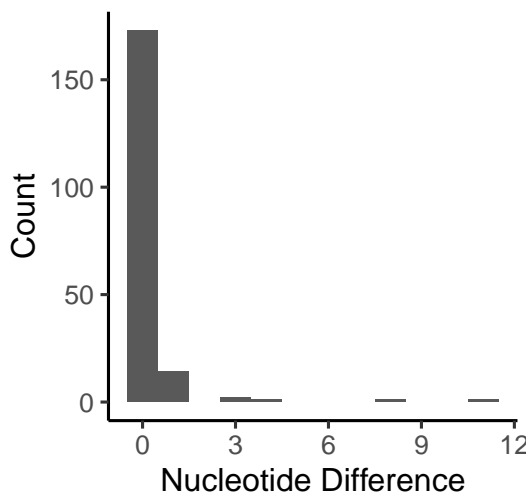
IGHV4-59*01

629 sequences assigned
549 (87.3%) exact matches, in which:
528 unique CDR3
6 unique J



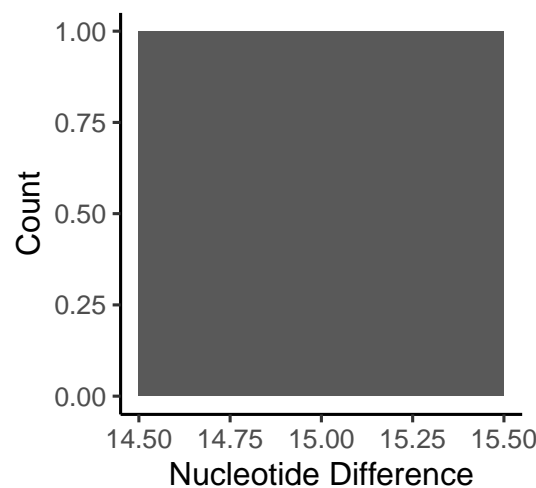
IGHV5-10-1*03

192 sequences assigned
173 (90.1%) exact matches, in which:
166 unique CDR3
6 unique J



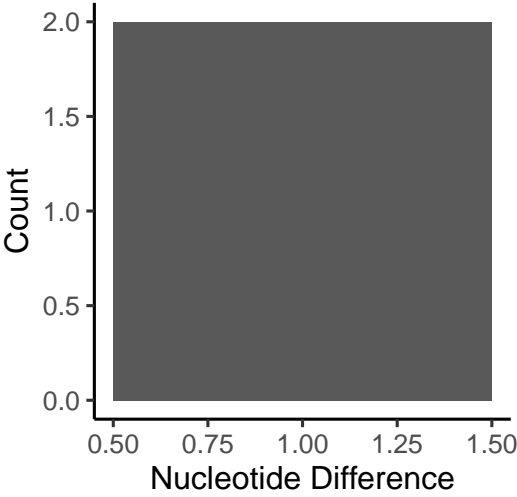
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



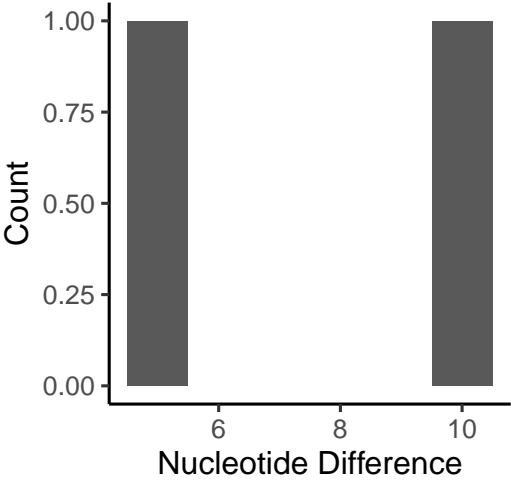
IGHV3/OR16-12*01

2 sequences assigned
No exact matches.



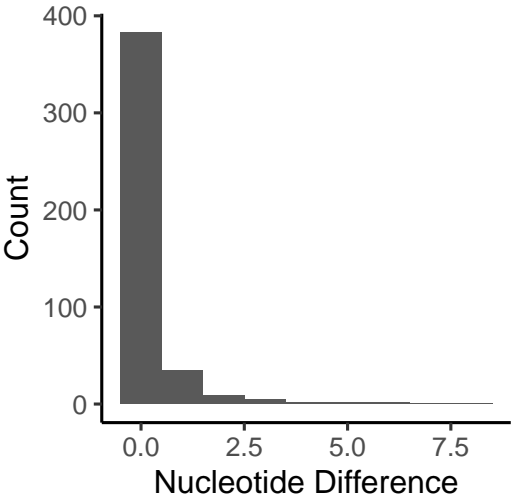
IGHV3/OR16-15*02

2 sequences assigned
No exact matches.



IGHV7-4-1*02

440 sequences assigned
383 (87%) exact matches, in which:
374 unique CDR3
6 unique J





Warning – no inferred sequences found.