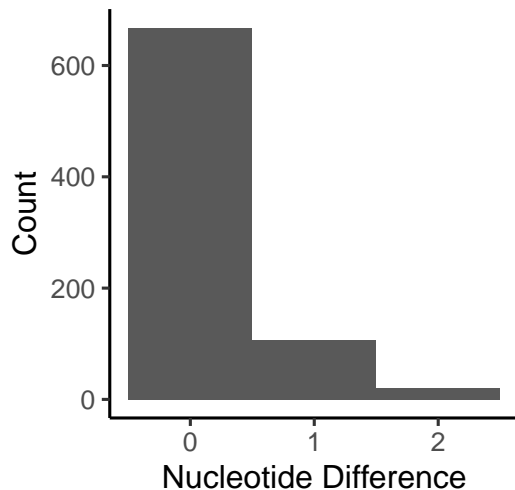


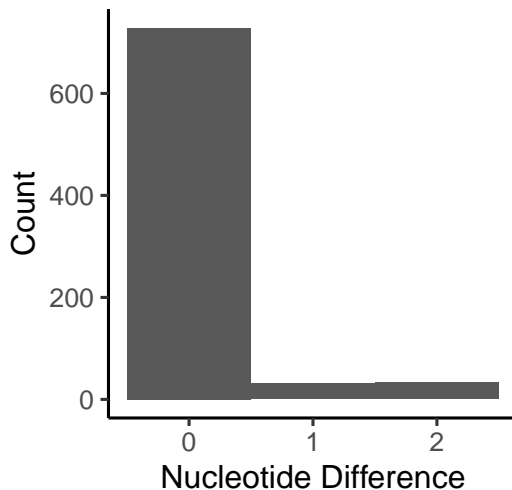
IGHV1-2*02

796 sequences assigned
668 (83.9%) exact matches, in which:
666 unique CDR3
6 unique J



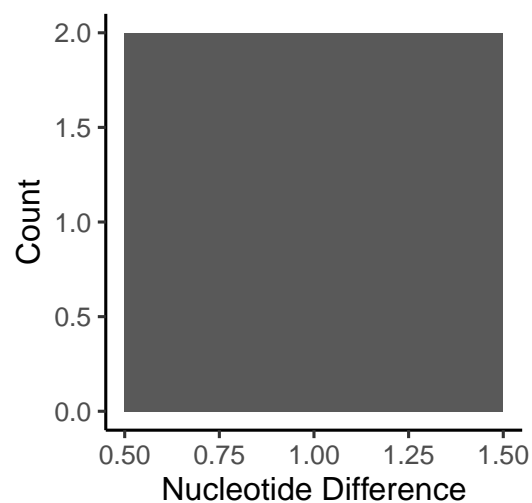
IGHV1-18*01

793 sequences assigned
729 (91.9%) exact matches, in which:
725 unique CDR3
6 unique J



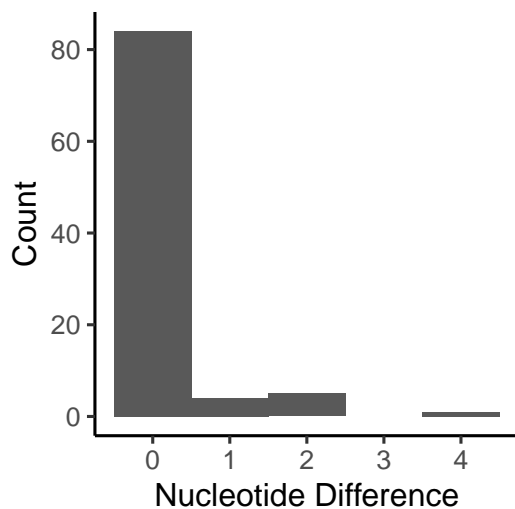
IGHV1-38-4*01

2 sequences assigned
No exact matches.



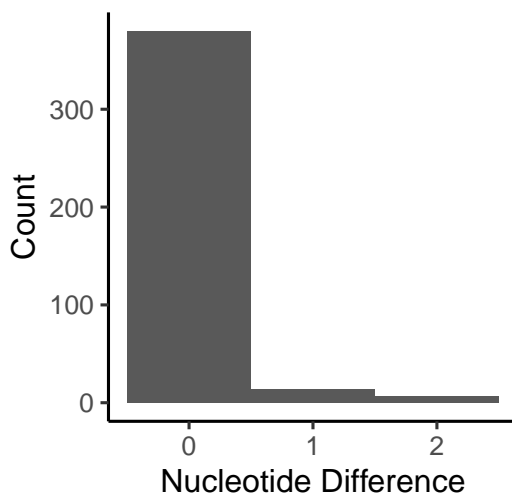
IGHV1-3*01_05

94 sequences assigned
84 (89.4%) exact matches, in which:
84 unique CDR3
5 unique J



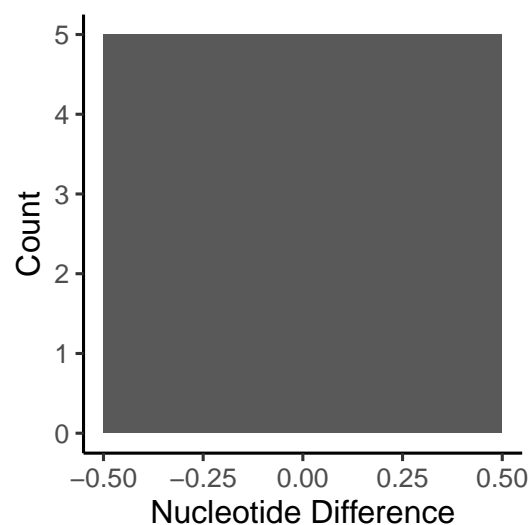
IGHV1-18*04

401 sequences assigned
380 (94.8%) exact matches, in which:
379 unique CDR3
6 unique J



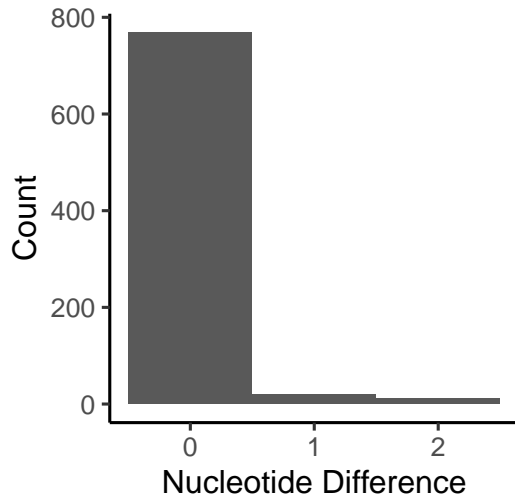
IGHV1-45*02

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



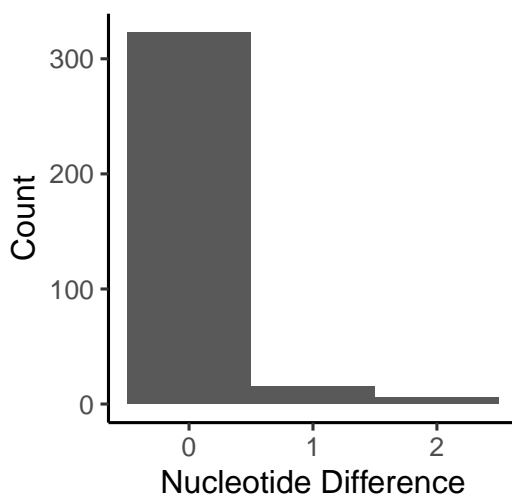
IGHV1-8*01

801 sequences assigned
769 (96%) exact matches, in which:
768 unique CDR3
6 unique J



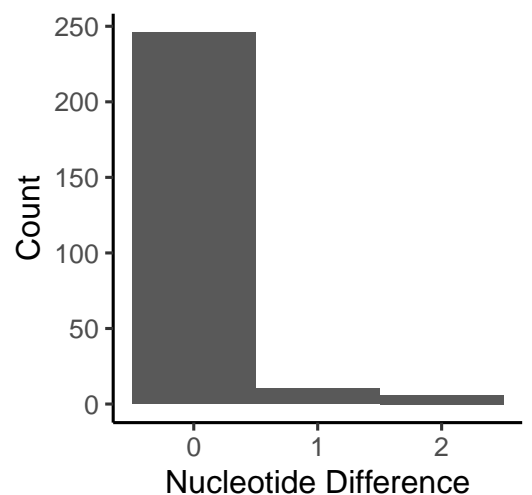
IGHV1-24*01

344 sequences assigned
323 (93.9%) exact matches, in which:
323 unique CDR3
6 unique J



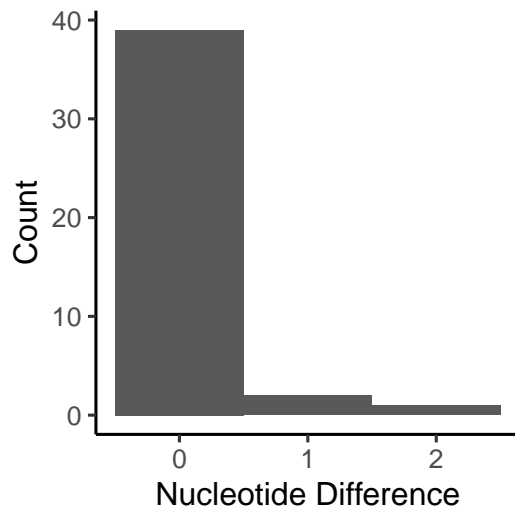
IGHV1-46*03

262 sequences assigned
246 (93.9%) exact matches, in which:
246 unique CDR3
6 unique J



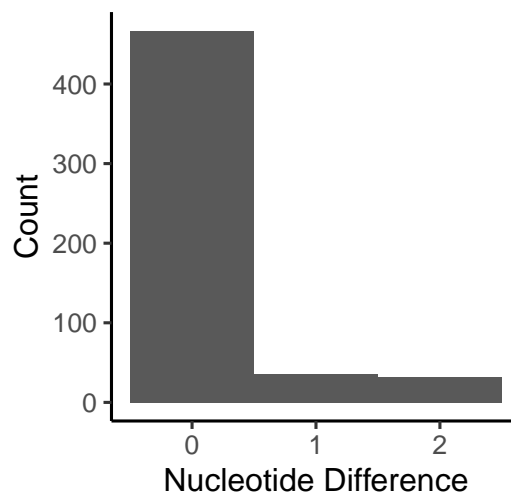
IGHV1-58*02

42 sequences assigned
39 (92.9%) exact matches, in which:
39 unique CDR3
5 unique J



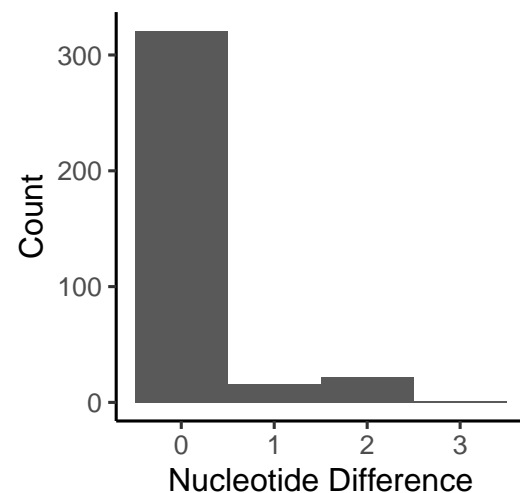
IGHV2-5*01

535 sequences assigned
467 (87.3%) exact matches, in which:
462 unique CDR3
6 unique J



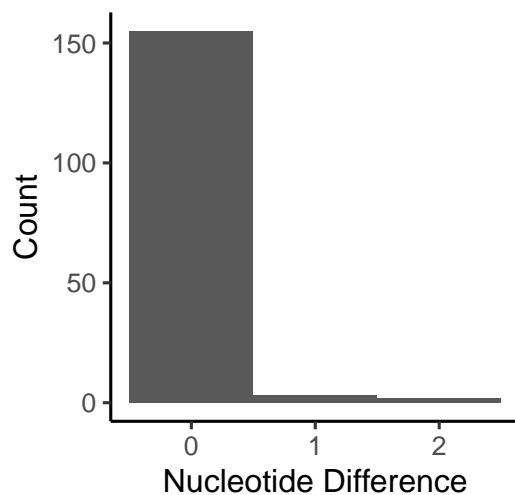
IGHV3-7*01

360 sequences assigned
321 (89.2%) exact matches, in which:
313 unique CDR3
6 unique J



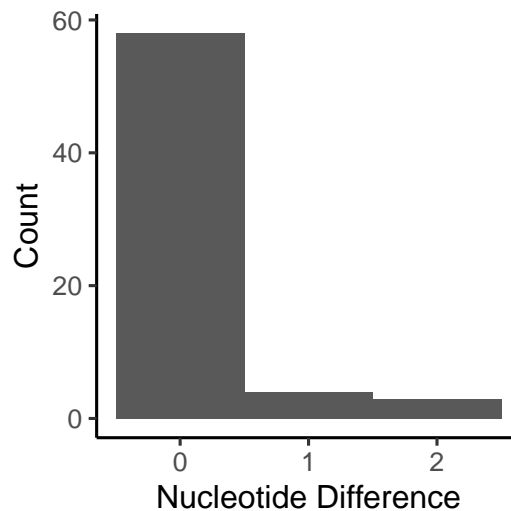
IGHV1-69*02

160 sequences assigned
155 (96.9%) exact matches, in which:
155 unique CDR3
6 unique J



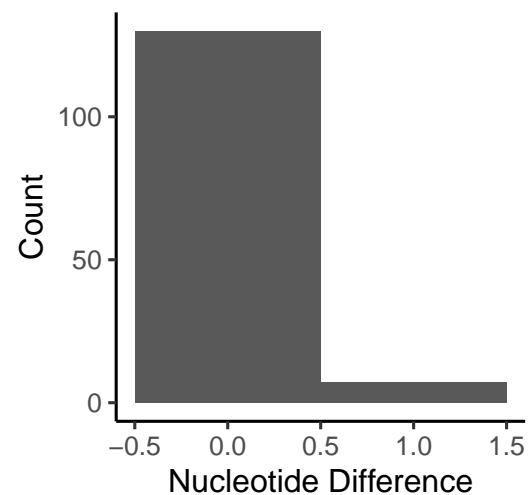
IGHV2-26*01

65 sequences assigned
58 (89.2%) exact matches, in which:
58 unique CDR3
4 unique J



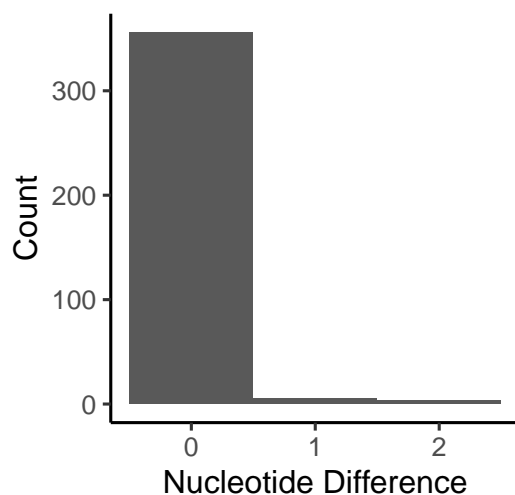
IGHV3-7*05

137 sequences assigned
130 (94.9%) exact matches, in which:
126 unique CDR3
5 unique J



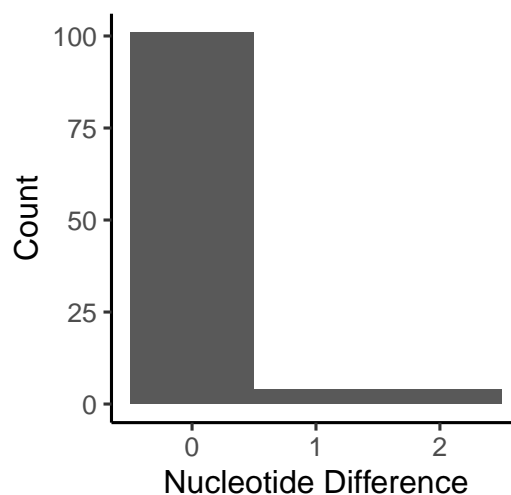
IGHV1-69*05

364 sequences assigned
356 (97.8%) exact matches, in which:
356 unique CDR3
6 unique J



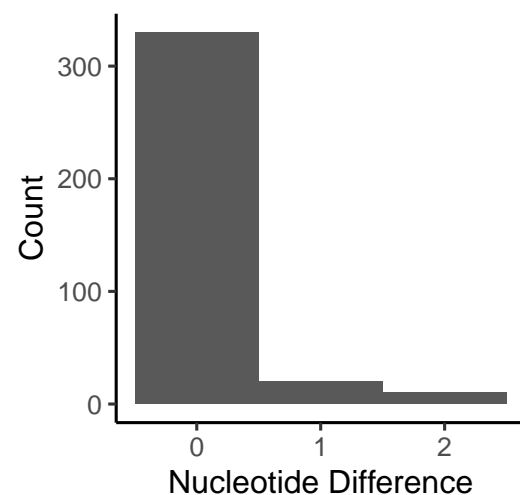
IGHV2-70*11_15

109 sequences assigned
101 (92.7%) exact matches, in which:
99 unique CDR3
5 unique J



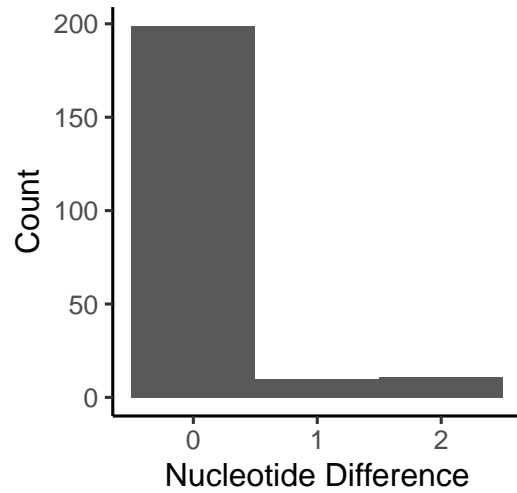
IGHV3-9*01

360 sequences assigned
330 (91.7%) exact matches, in which:
322 unique CDR3
6 unique J



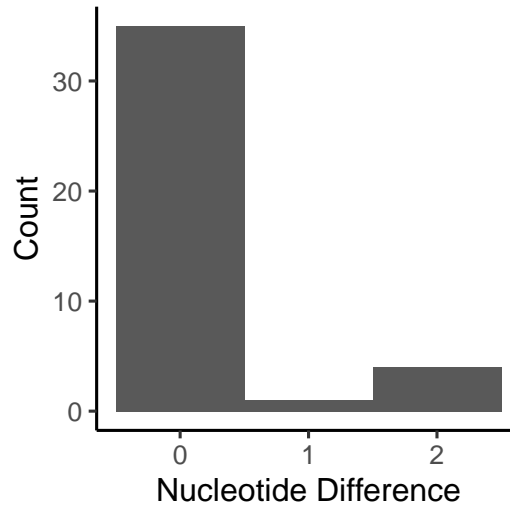
IGHV3-11*01

220 sequences assigned
199 (90.5%) exact matches, in which:
195 unique CDR3
6 unique J



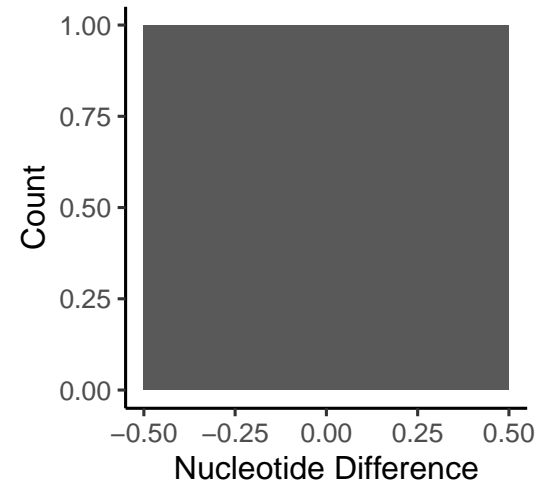
IGHV3-20*01_02

40 sequences assigned
35 (87.5%) exact matches, in which:
34 unique CDR3
5 unique J



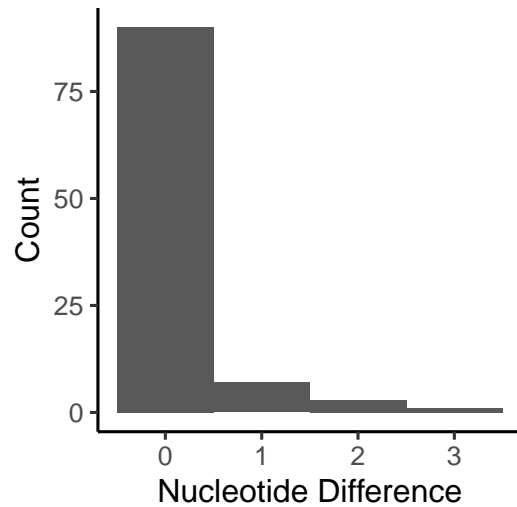
IGHV3-38-3*01

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



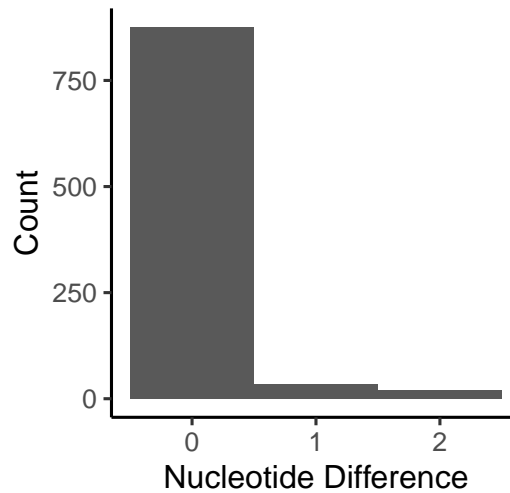
IGHV3-13*01

101 sequences assigned
90 (89.1%) exact matches, in which:
86 unique CDR3
5 unique J



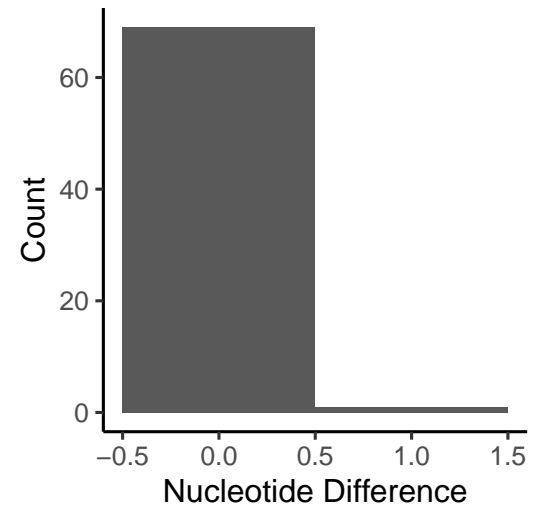
IGHV3-21*01_02

929 sequences assigned
876 (94.3%) exact matches, in which:
843 unique CDR3
6 unique J



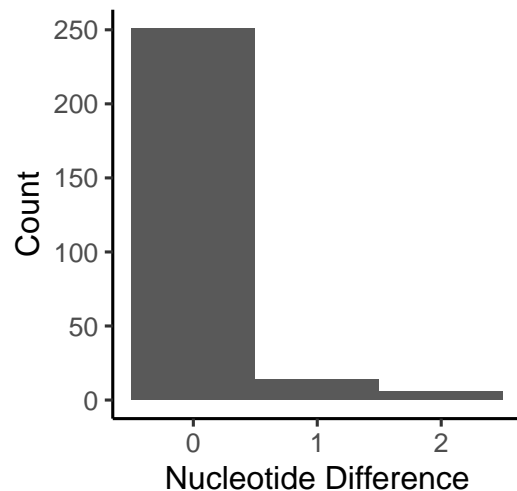
IGHV3-43*01

70 sequences assigned
69 (98.6%) exact matches, in which:
68 unique CDR3
6 unique J



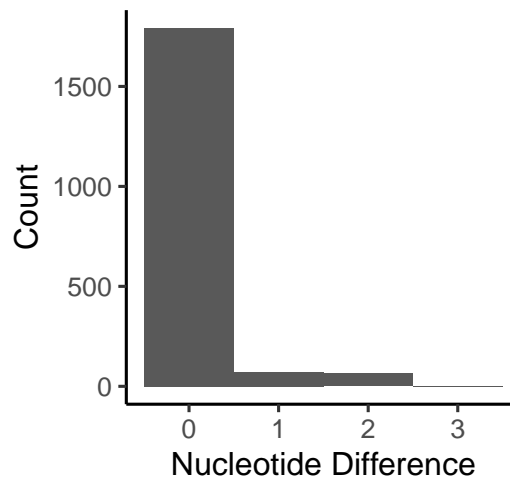
IGHV3-15*01_02

271 sequences assigned
251 (92.6%) exact matches, in which:
249 unique CDR3
6 unique J



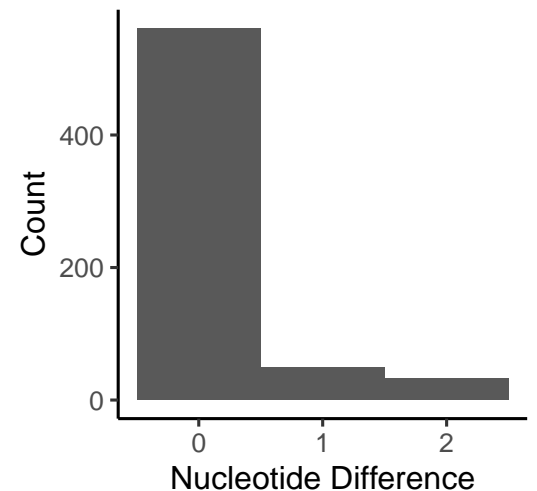
IGHV3-23*01_04

1930 sequences assigned
1792 (92.8%) exact matches, in which:
1729 unique CDR3
6 unique J



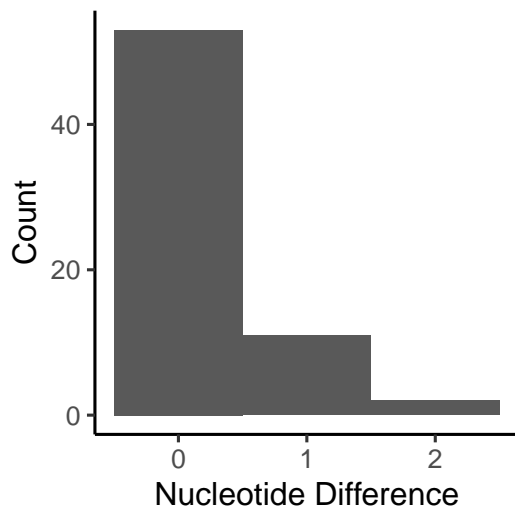
IGHV3-48*01

643 sequences assigned
561 (87.2%) exact matches, in which:
543 unique CDR3
6 unique J



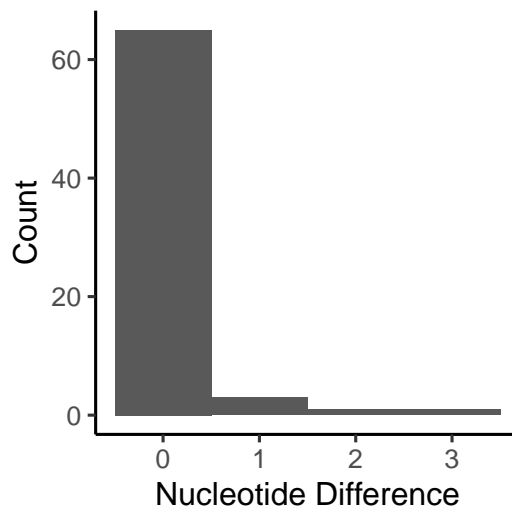
IGHV3-49*03_05

66 sequences assigned
53 (80.3%) exact matches, in which:
53 unique CDR3
5 unique J



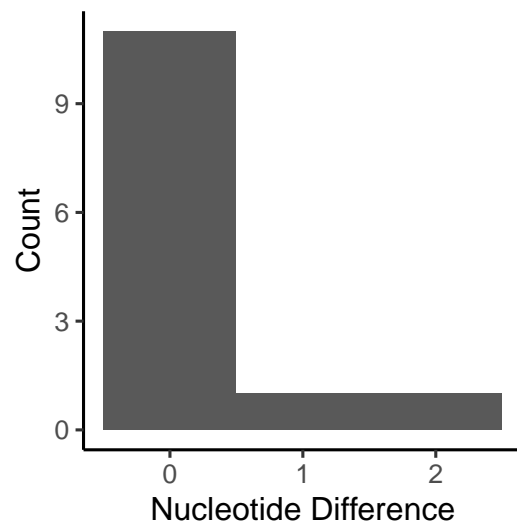
IGHV3-64*01

70 sequences assigned
65 (92.9%) exact matches, in which:
63 unique CDR3
5 unique J



IGHV3-72*01

13 sequences assigned
11 (84.6%) exact matches, in which:
11 unique CDR3
5 unique J



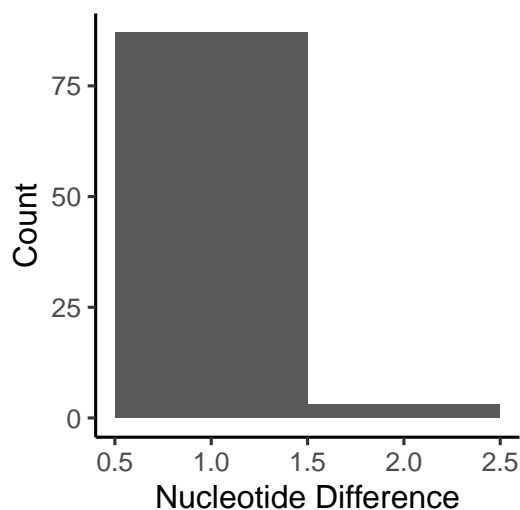
IGHV3-52*02

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



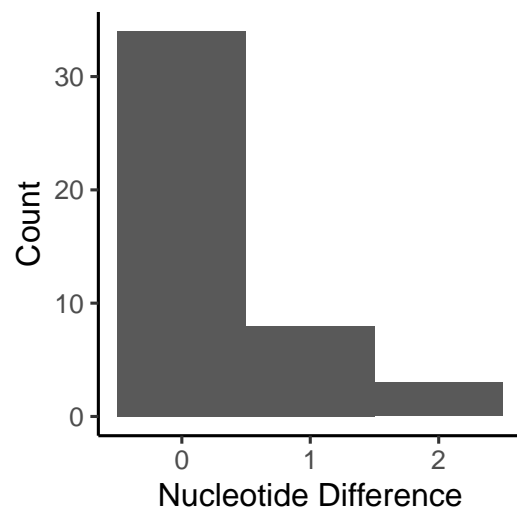
IGHV3-66*01

90 sequences assigned
No exact matches.



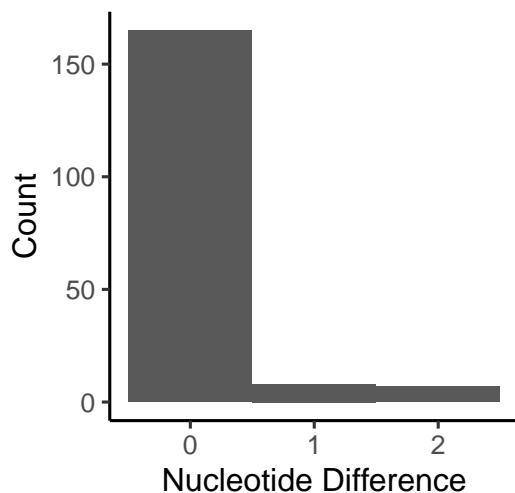
IGHV3-73*01_02

45 sequences assigned
34 (75.6%) exact matches, in which:
34 unique CDR3
5 unique J



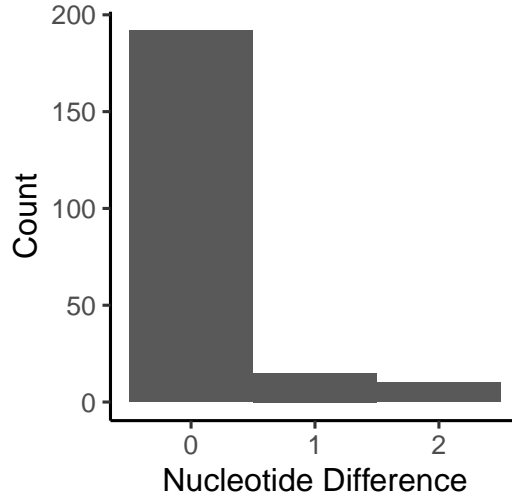
IGHV3-53*01_02

180 sequences assigned
165 (91.7%) exact matches, in which:
158 unique CDR3
6 unique J



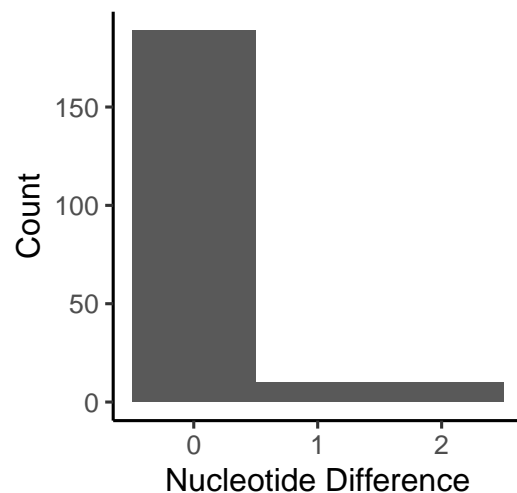
IGHV3-66*02

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



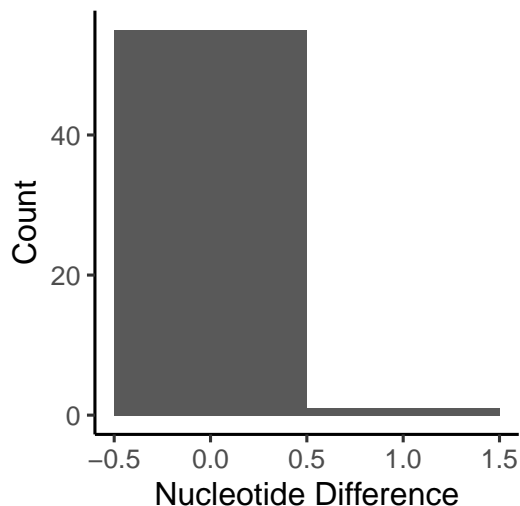
IGHV3-74*01_02

209 sequences assigned
189 (90.4%) exact matches, in which:
186 unique CDR3
6 unique J



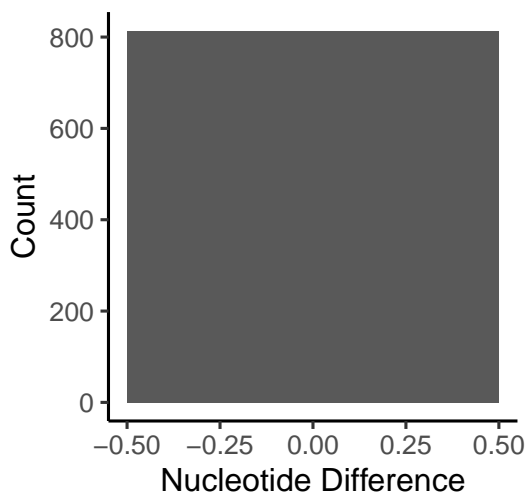
IGHV3-43D*04

56 sequences assigned
55 (98.2%) exact matches, in which:
55 unique CDR3
4 unique J



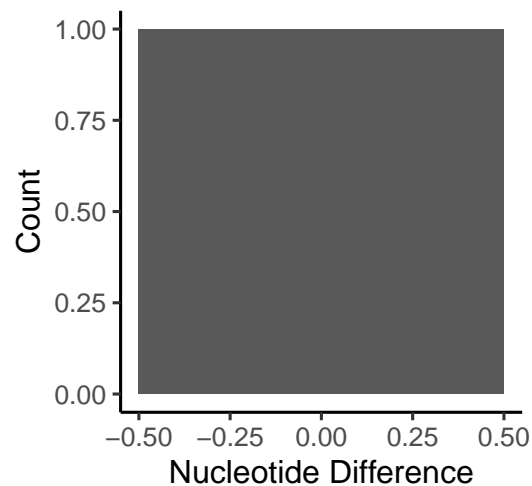
IGHV4-4*09

814 sequences assigned
814 (100%) exact matches, in which:
793 unique CDR3
6 unique J



IGHV4-30-2*01

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



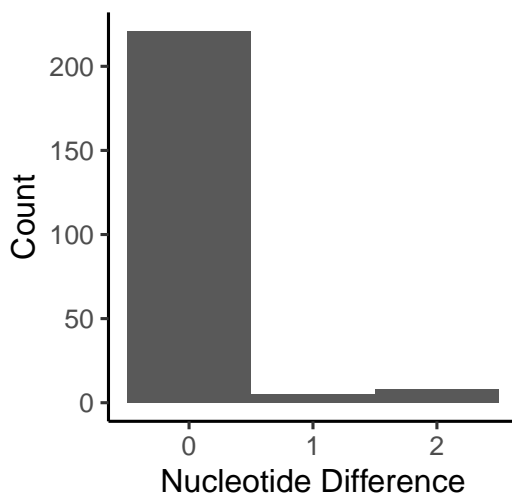
IGHV3-64D*06

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



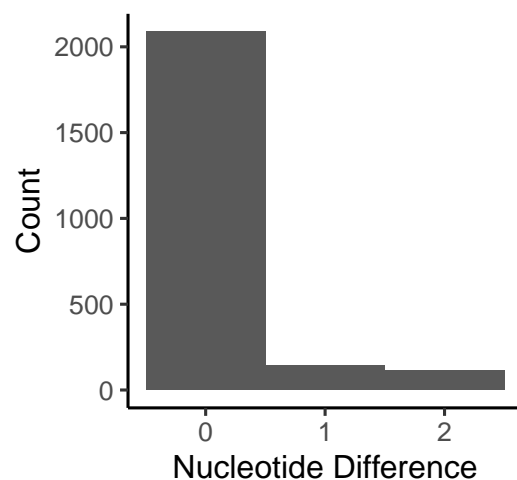
IGHV4-4*02_03

234 sequences assigned
221 (94.4%) exact matches, in which:
216 unique CDR3
6 unique J



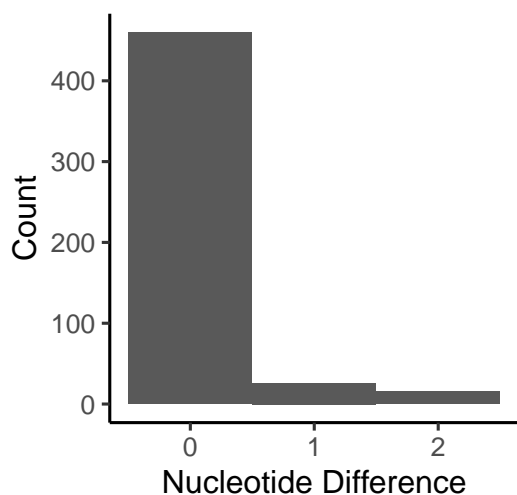
IGHV4-34*01_02

2343 sequences assigned
2088 (89.1%) exact matches, in which:
1996 unique CDR3
6 unique J



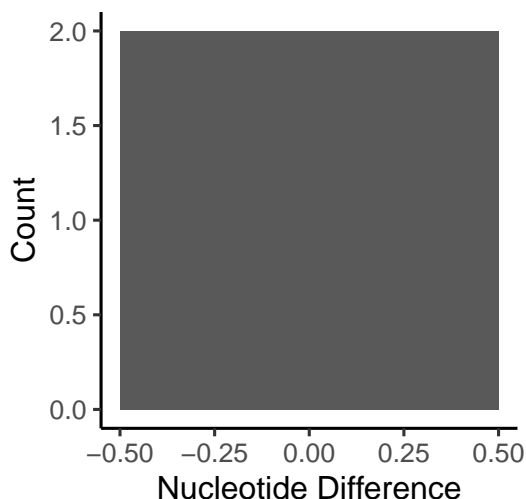
IGHV4-4*07

502 sequences assigned
460 (91.6%) exact matches, in which:
444 unique CDR3
5 unique J



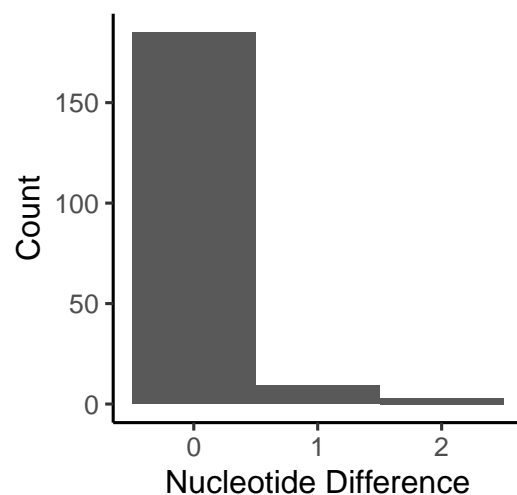
IGHV4-28*02_05

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



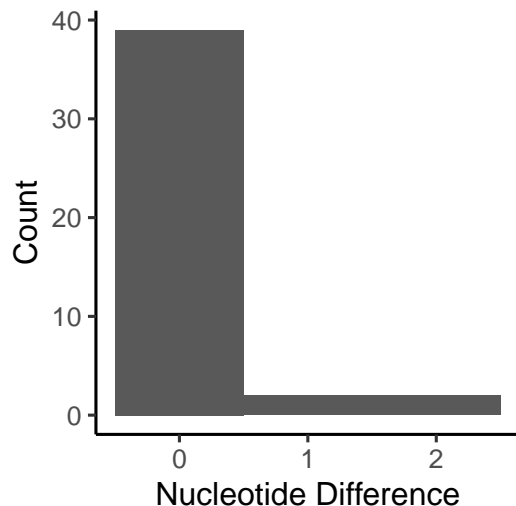
IGHV4-38-2*01

197 sequences assigned
185 (93.9%) exact matches, in which:
185 unique CDR3
6 unique J



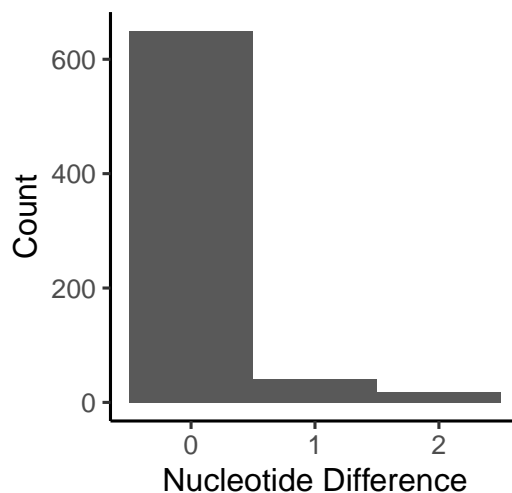
IGHV4-38-2*02

43 sequences assigned
39 (90.7%) exact matches, in which:
39 unique CDR3
5 unique J



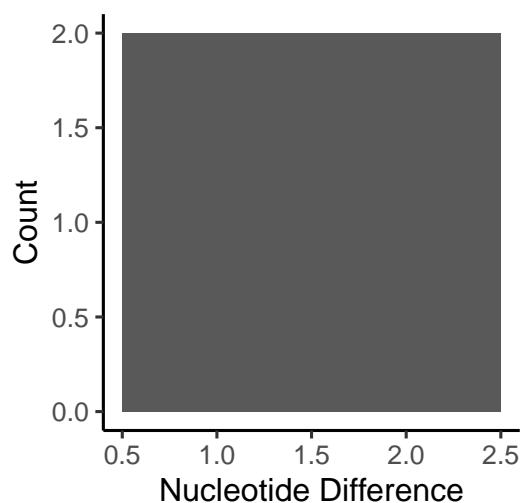
IGHV4-61*02

709 sequences assigned
650 (91.7%) exact matches, in which:
640 unique CDR3
6 unique J



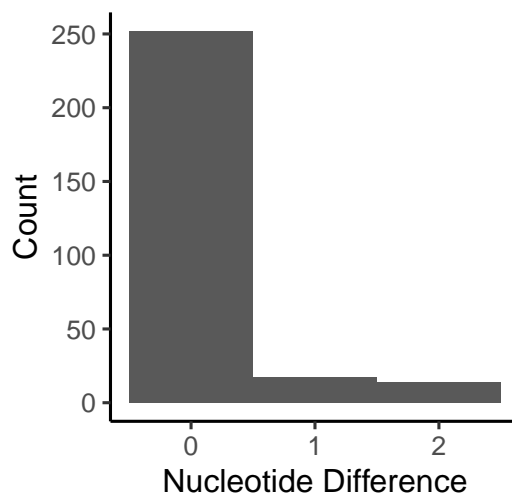
IGHV4-39*02

4 sequences assigned
No exact matches.



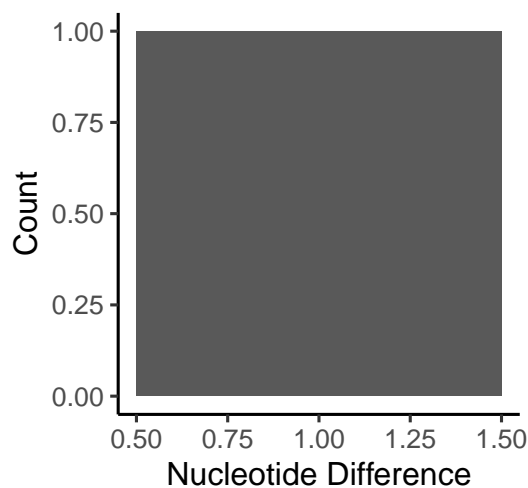
IGHV6-1*01_02

283 sequences assigned
252 (89%) exact matches, in which:
251 unique CDR3
6 unique J



IGHV4-59*12

1 sequences assigned
No exact matches.



IGHV7-4-1*01

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

