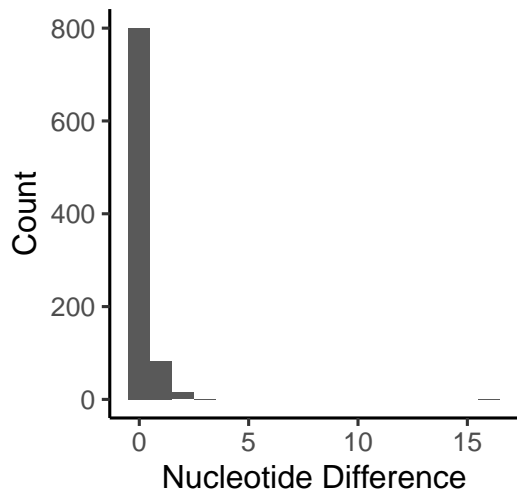


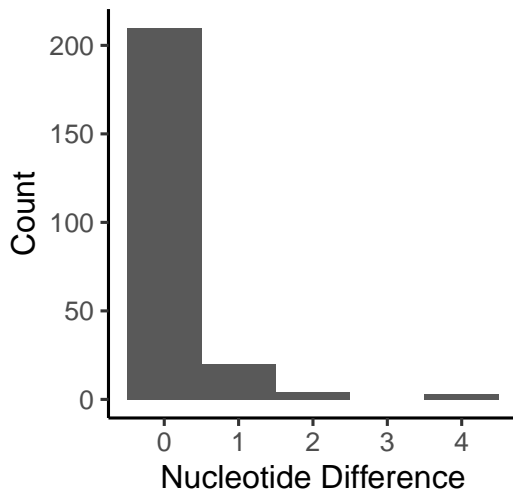
IGHV1-2*04

901 sequences assigned
801 (88.9%) exact matches, in which:
774 unique CDR3
6 unique J



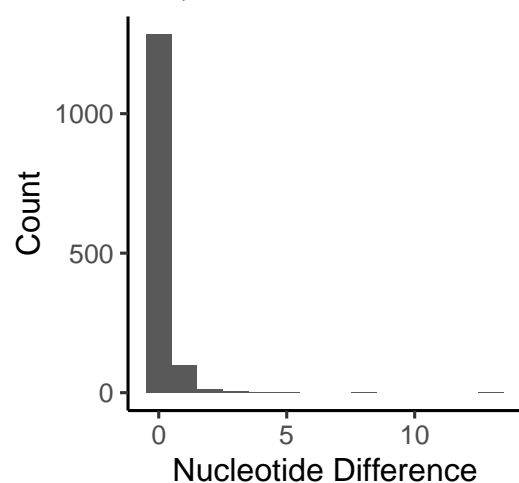
IGHV1-24*01

237 sequences assigned
210 (88.6%) exact matches, in which:
203 unique CDR3
6 unique J



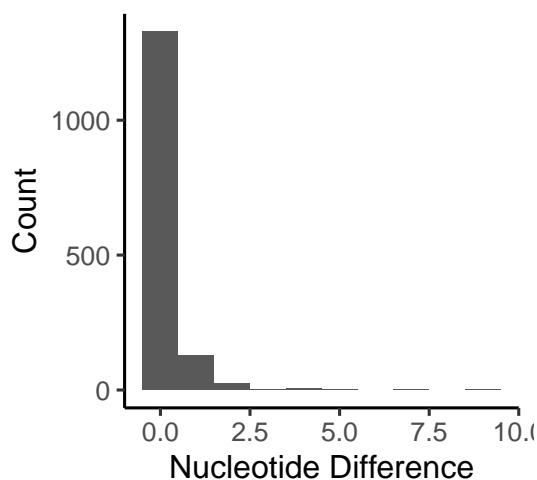
IGHV1-46*01

1408 sequences assigned
1284 (91.2%) exact matches, in which:
1213 unique CDR3
6 unique J



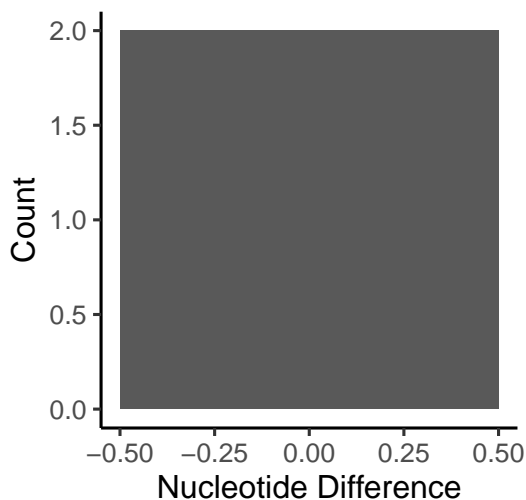
IGHV1-3*01

1494 sequences assigned
1328 (88.9%) exact matches, in which:
1266 unique CDR3
6 unique J



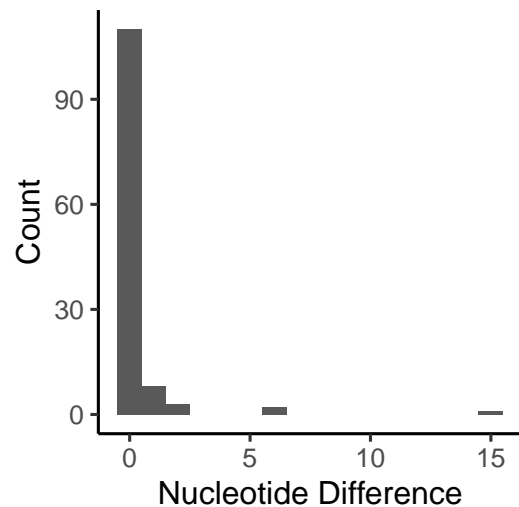
IGHV1-45*02

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



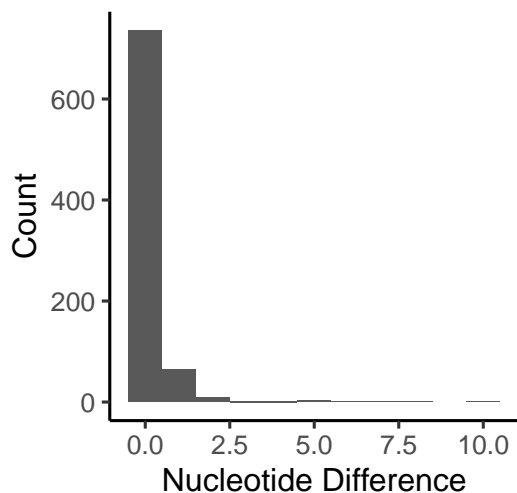
IGHV1-58*01

124 sequences assigned
110 (88.7%) exact matches, in which:
108 unique CDR3
6 unique J



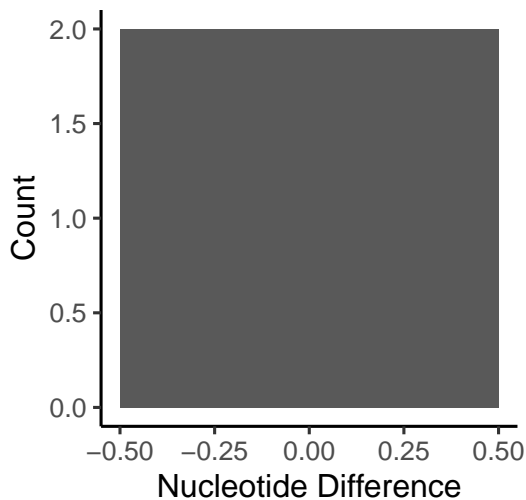
IGHV1-18*01

820 sequences assigned
736 (89.8%) exact matches, in which:
710 unique CDR3
6 unique J



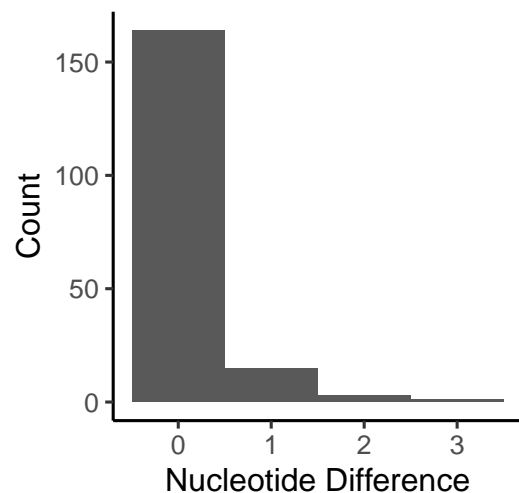
IGHV1-45*03

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



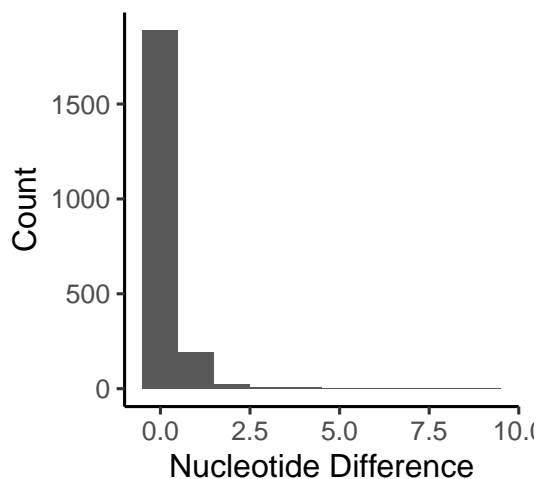
IGHV1-58*02

183 sequences assigned
164 (89.6%) exact matches, in which:
158 unique CDR3
5 unique J



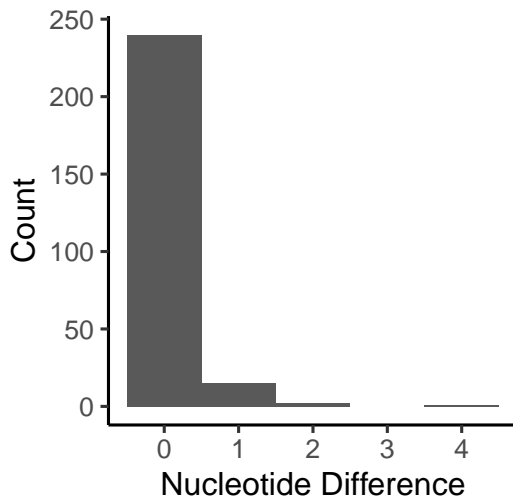
IGHV1-69*04

2126 sequences assigned
1888 (88.8%) exact matches, in which:
1752 unique CDR3
6 unique J



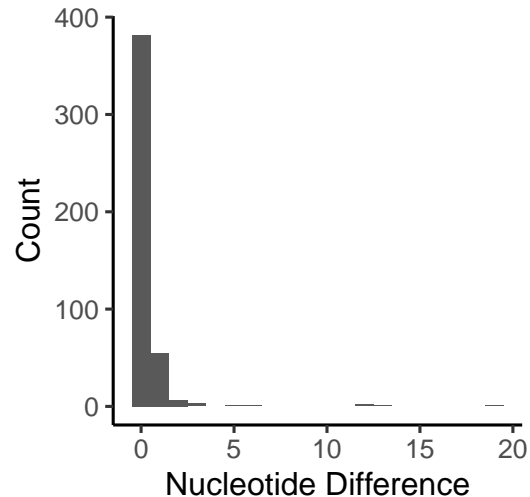
IGHV2-26*01

258 sequences assigned
240 (93%) exact matches, in which:
233 unique CDR3
6 unique J



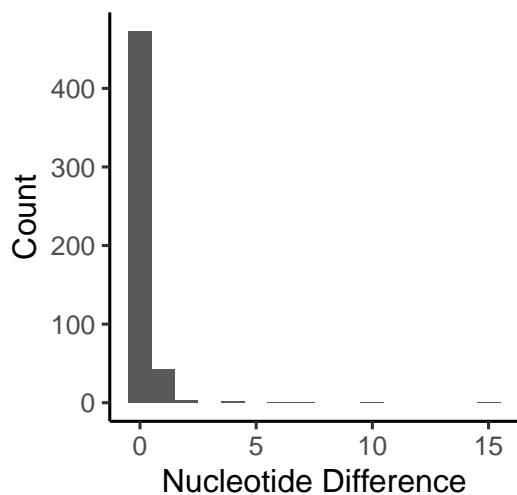
IGHV3-7*03

453 sequences assigned
382 (84.3%) exact matches, in which:
358 unique CDR3
6 unique J



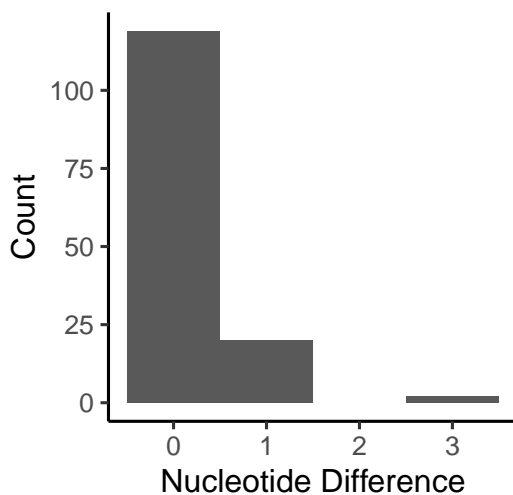
IGHV2-5*01

526 sequences assigned
473 (89.9%) exact matches, in which:
459 unique CDR3
6 unique J



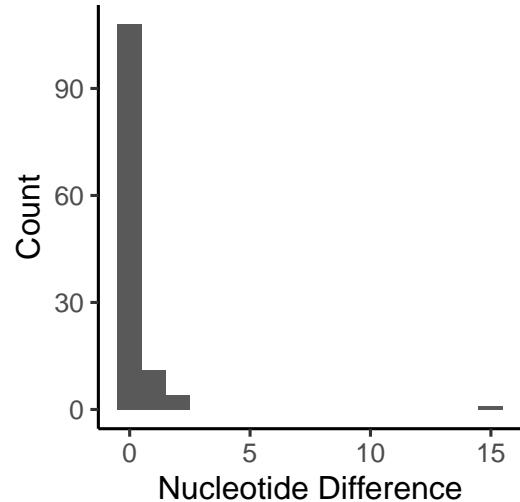
IGHV2-70*01

141 sequences assigned
119 (84.4%) exact matches, in which:
118 unique CDR3
5 unique J



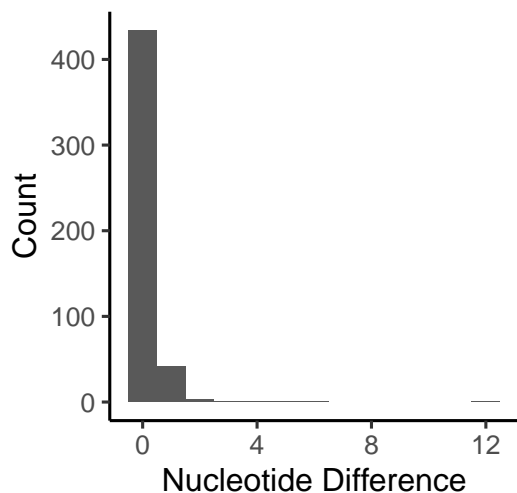
IGHV3-7*05

124 sequences assigned
108 (87.1%) exact matches, in which:
105 unique CDR3
6 unique J



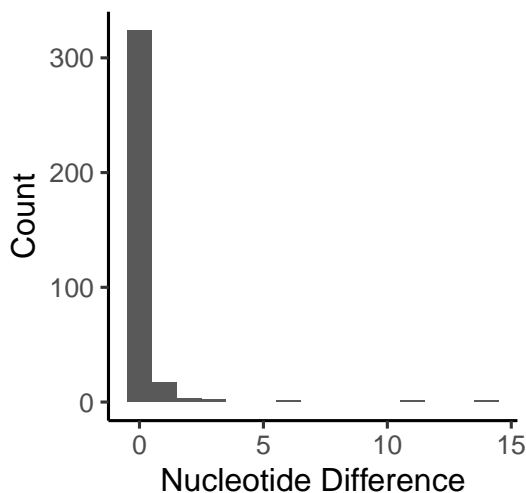
IGHV2-5*02

484 sequences assigned
434 (89.7%) exact matches, in which:
411 unique CDR3
6 unique J



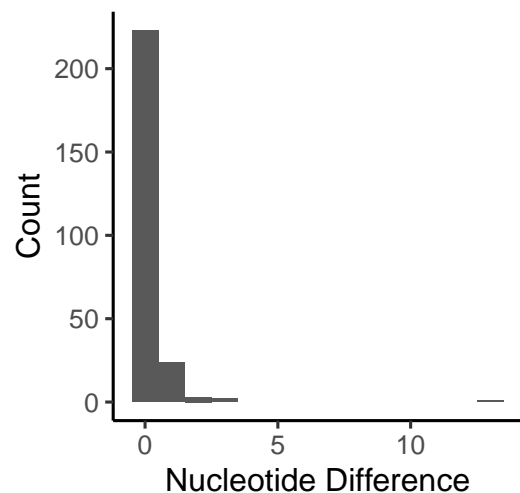
IGHV2-70*15

349 sequences assigned
324 (92.8%) exact matches, in which:
313 unique CDR3
5 unique J



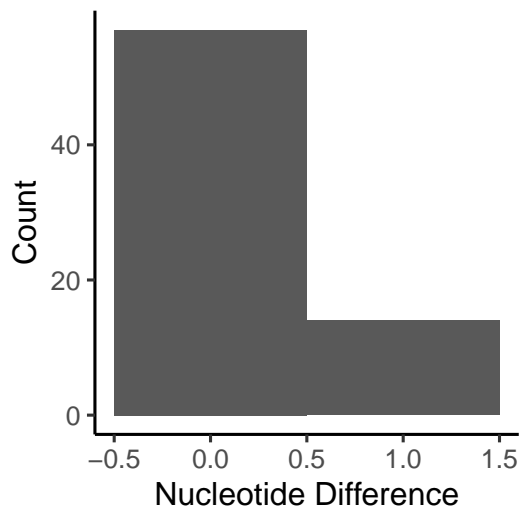
IGHV3-11*06

253 sequences assigned
223 (88.1%) exact matches, in which:
210 unique CDR3
6 unique J



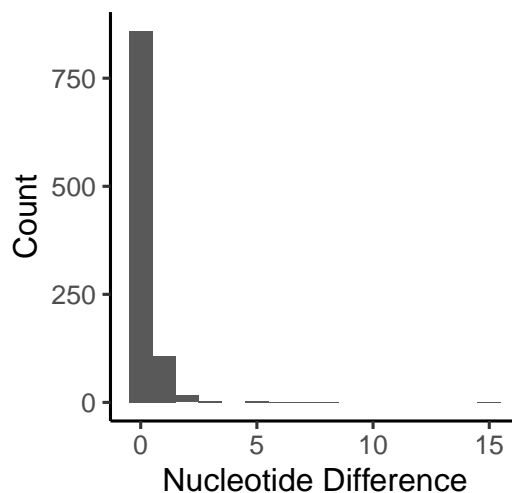
IGHV3-13*05

72 sequences assigned
57 (79.2%) exact matches, in which:
54 unique CDR3
4 unique J



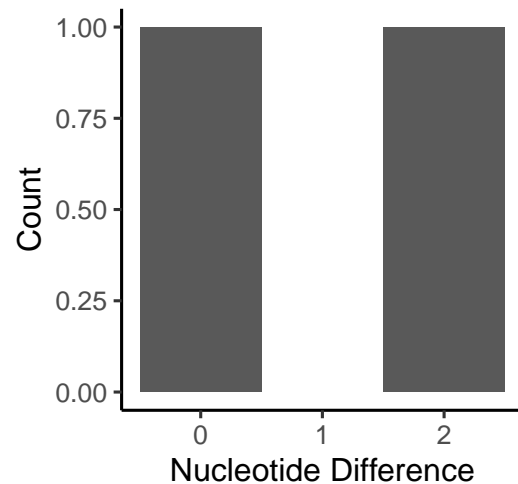
IGHV3-21*01

994 sequences assigned
860 (86.5%) exact matches, in which:
822 unique CDR3
6 unique J



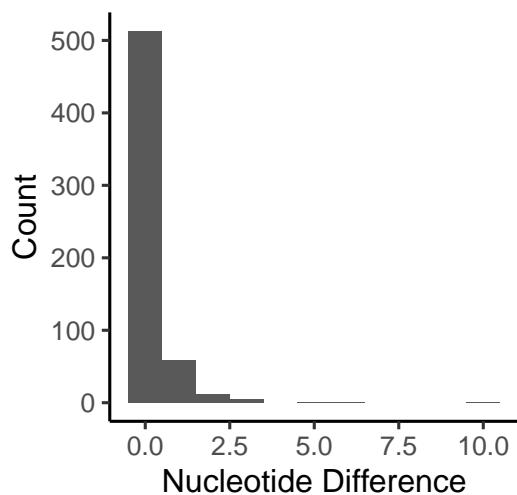
IGHV3-35*02

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



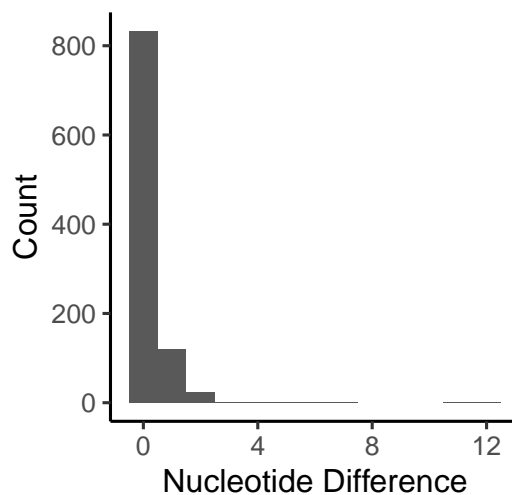
IGHV3-15*01

592 sequences assigned
513 (86.7%) exact matches, in which:
494 unique CDR3
6 unique J



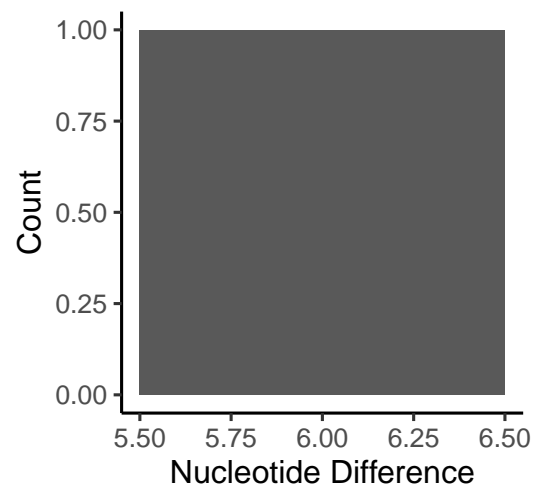
IGHV3-30-3*01

991 sequences assigned
833 (84.1%) exact matches, in which:
790 unique CDR3
6 unique J



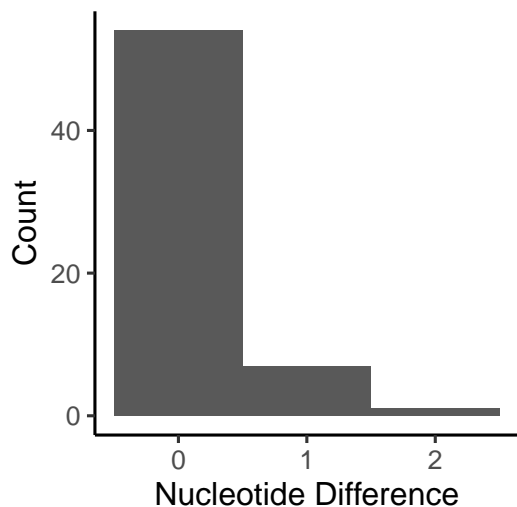
IGHV3-41*02

1 sequences assigned
No exact matches.



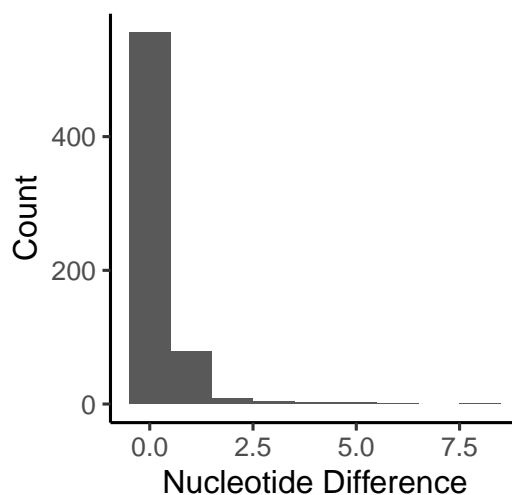
IGHV3-20*01

62 sequences assigned
54 (87.1%) exact matches, in which:
50 unique CDR3
5 unique J



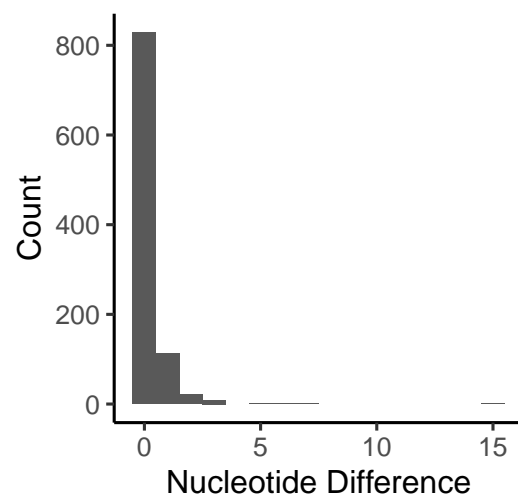
IGHV3-33*01

653 sequences assigned
556 (85.1%) exact matches, in which:
541 unique CDR3
6 unique J



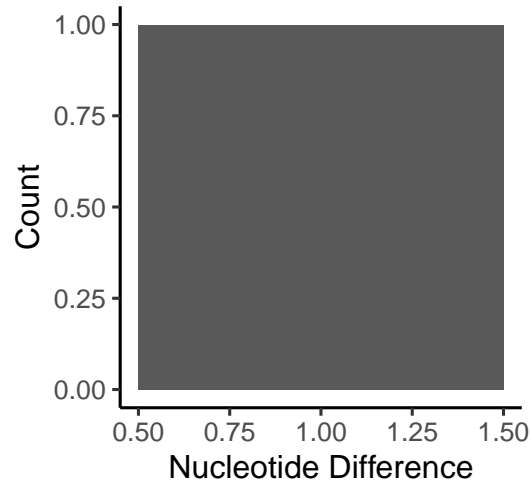
IGHV3-43*02

977 sequences assigned
829 (84.9%) exact matches, in which:
782 unique CDR3
6 unique J



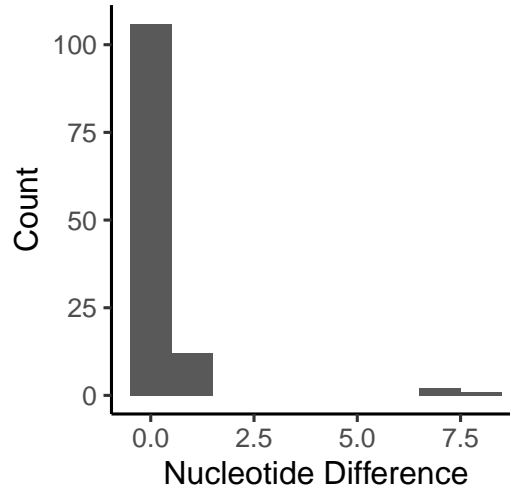
IGHV3-47*01

1 sequences assigned
No exact matches.



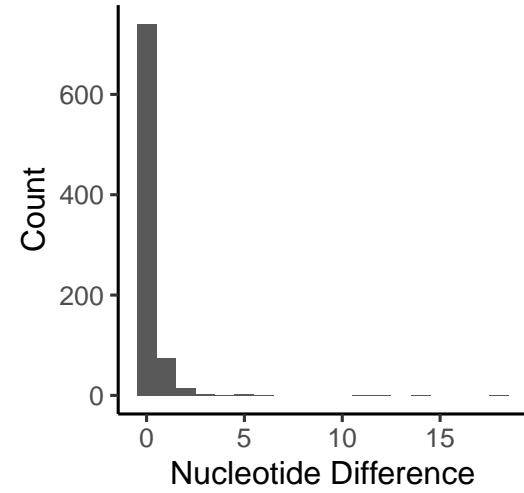
IGHV3-53*02

121 sequences assigned
106 (87.6%) exact matches, in which:
100 unique CDR3
6 unique J



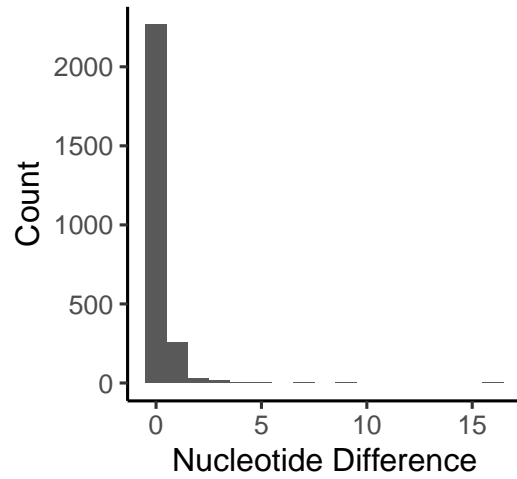
IGHV3-66*01

840 sequences assigned
741 (88.2%) exact matches, in which:
689 unique CDR3
6 unique J



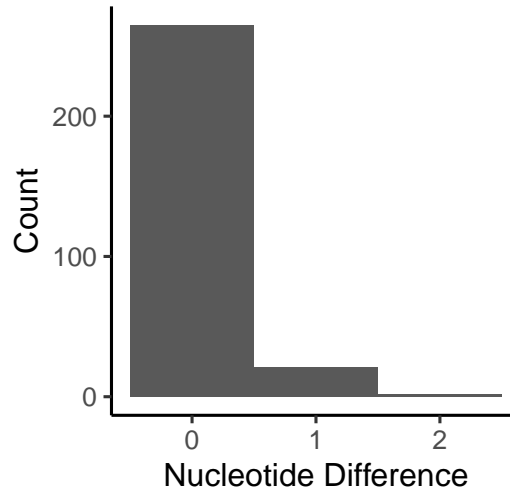
IGHV3-48*03

2575 sequences assigned
2266 (88%) exact matches, in which:
2165 unique CDR3
6 unique J



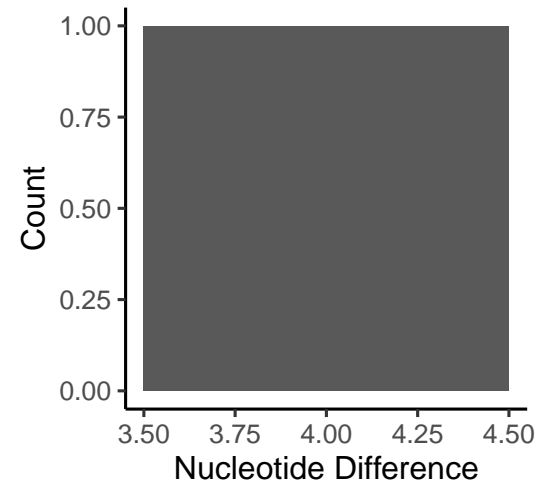
IGHV3-53*04

288 sequences assigned
265 (92%) exact matches, in which:
250 unique CDR3
6 unique J



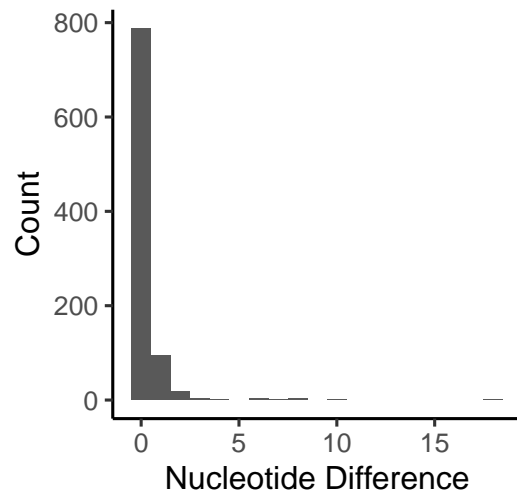
IGHV3-69-1*02

1 sequences assigned
No exact matches.



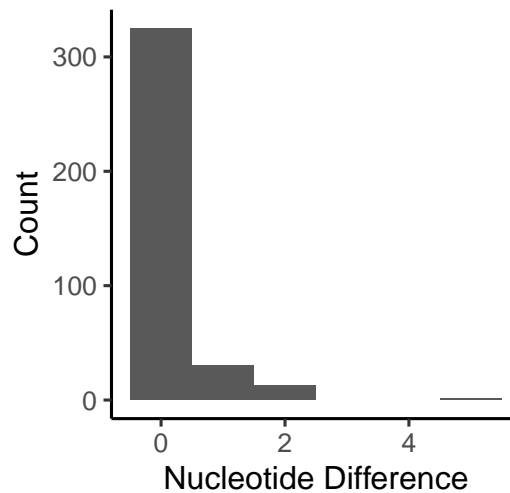
IGHV3-49*04

916 sequences assigned
788 (86%) exact matches, in which:
755 unique CDR3
6 unique J



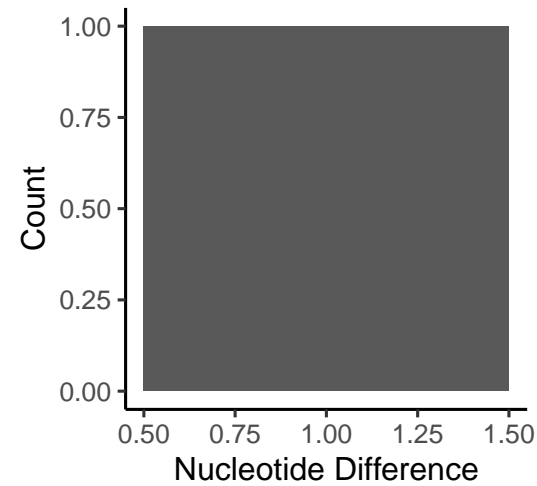
IGHV3-64*01

369 sequences assigned
325 (88.1%) exact matches, in which:
303 unique CDR3
6 unique J



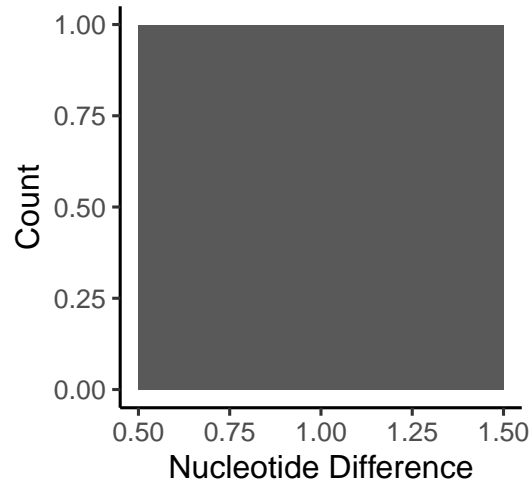
IGHV3-71*02

1 sequences assigned
No exact matches.



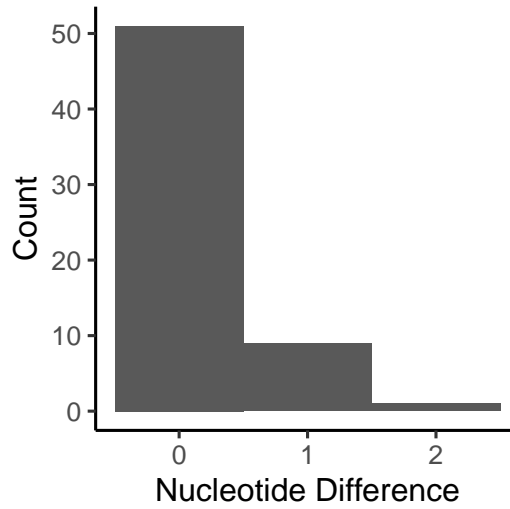
IGHV3-71*03

1 sequences assigned
No exact matches.



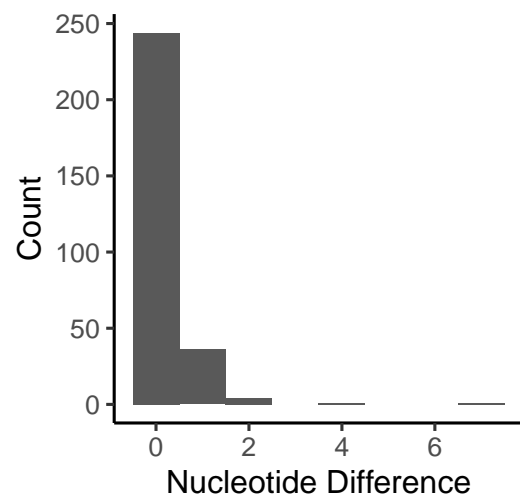
IGHV3-73*02

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



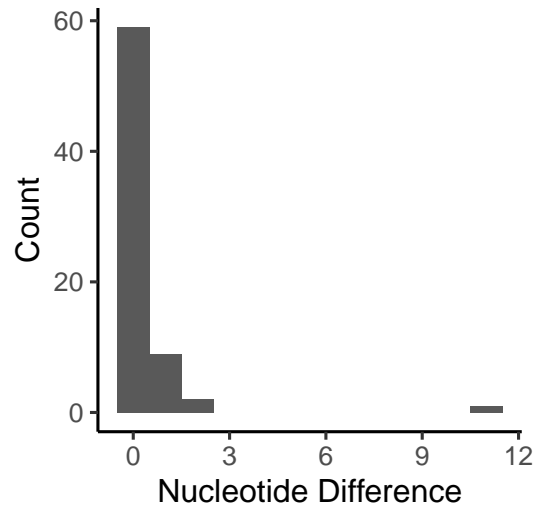
IGHV3-64D*08

287 sequences assigned
244 (85%) exact matches, in which:
227 unique CDR3
6 unique J



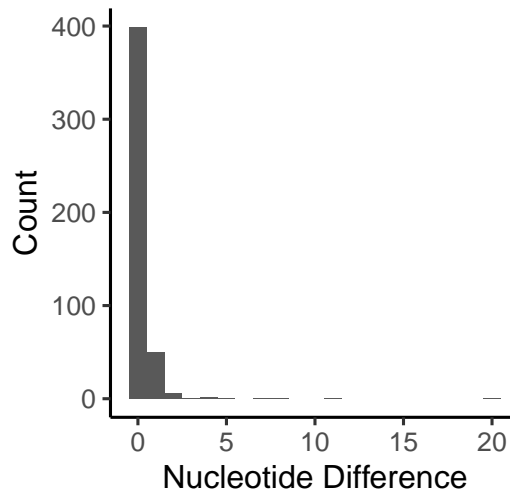
IGHV3-72*01

72 sequences assigned
59 (81.9%) exact matches, in which:
57 unique CDR3
6 unique J



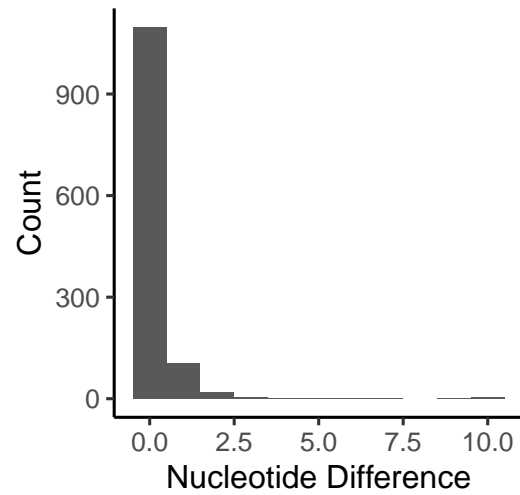
IGHV3-74*01

463 sequences assigned
399 (86.2%) exact matches, in which:
381 unique CDR3
6 unique J



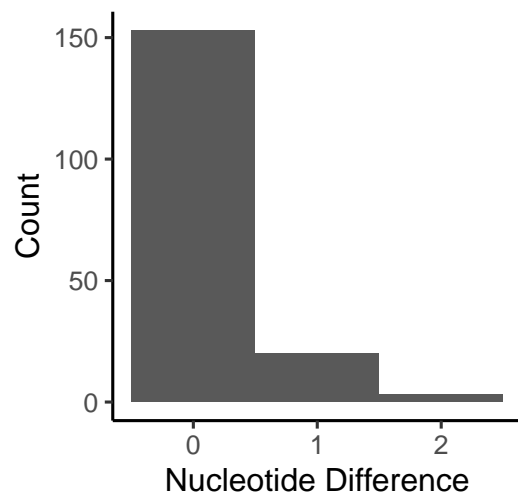
IGHV4-4*02

1237 sequences assigned
1098 (88.8%) exact matches, in which:
1059 unique CDR3
6 unique J



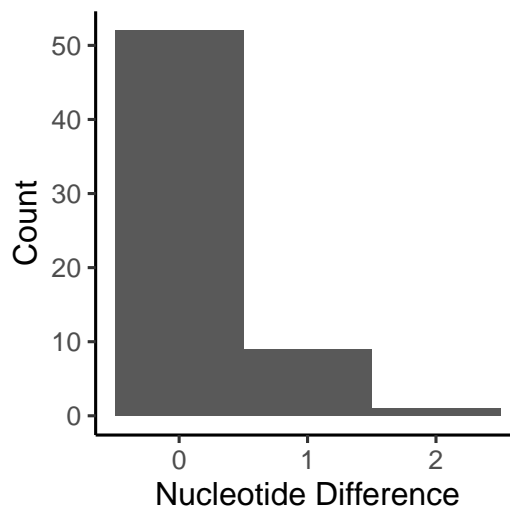
IGHV3-73*01

176 sequences assigned
153 (86.9%) exact matches, in which:
147 unique CDR3
5 unique J



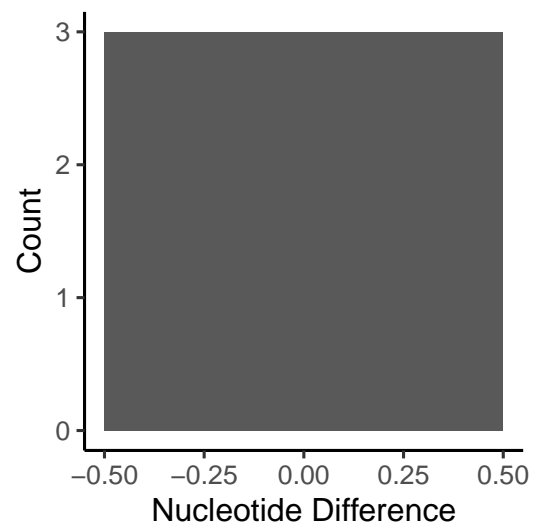
IGHV3-43D*04

62 sequences assigned
52 (83.9%) exact matches, in which:
49 unique CDR3
5 unique J



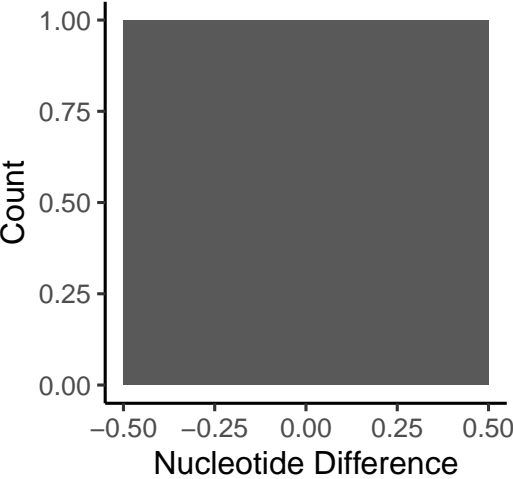
IGHV4-28*01

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



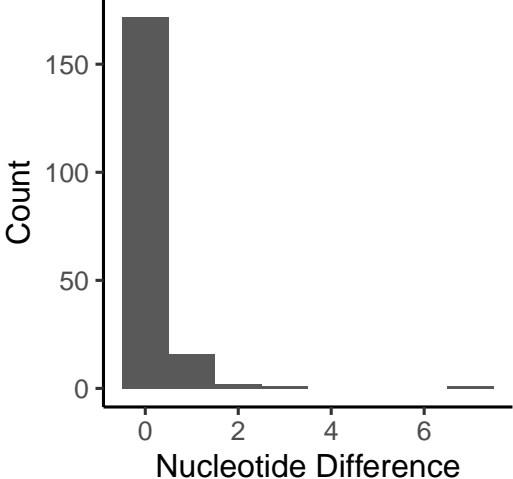
IGHV4-28*03

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



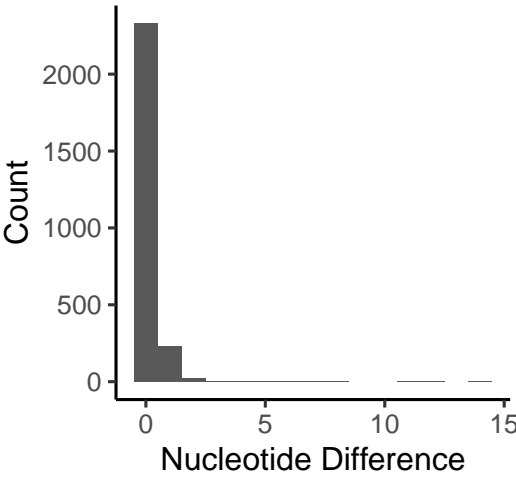
IGHV4-30-2*01

192 sequences assigned
172 (89.6%) exact matches, in which:
168 unique CDR3
6 unique J



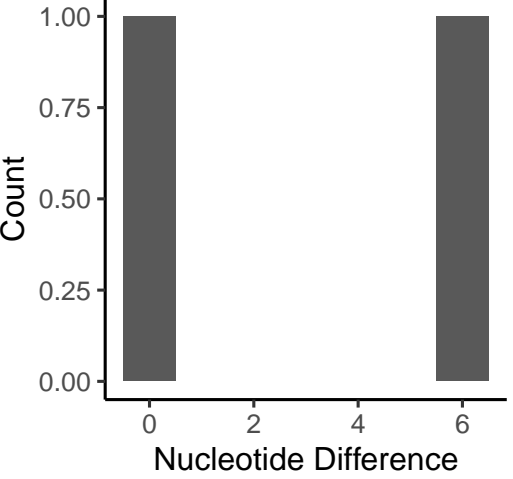
IGHV4-34*01

2617 sequences assigned
2330 (89%) exact matches, in which:
2167 unique CDR3
6 unique J



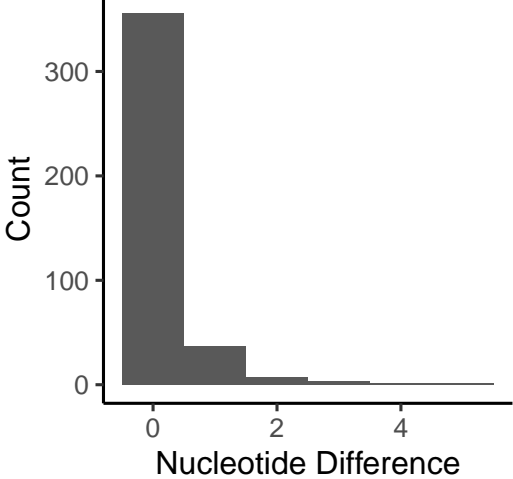
IGHV4-28*04

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



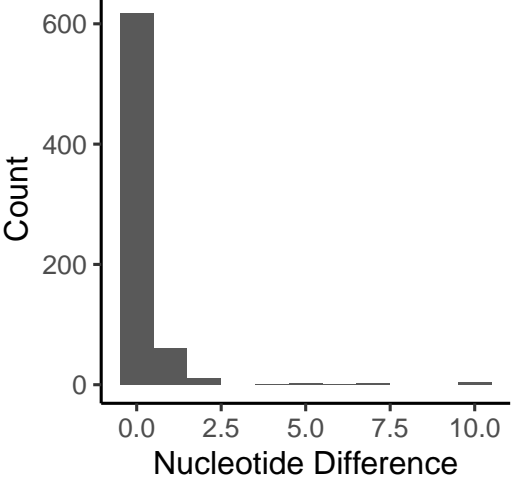
IGHV4-30-4*01

406 sequences assigned
356 (87.7%) exact matches, in which:
349 unique CDR3
6 unique J



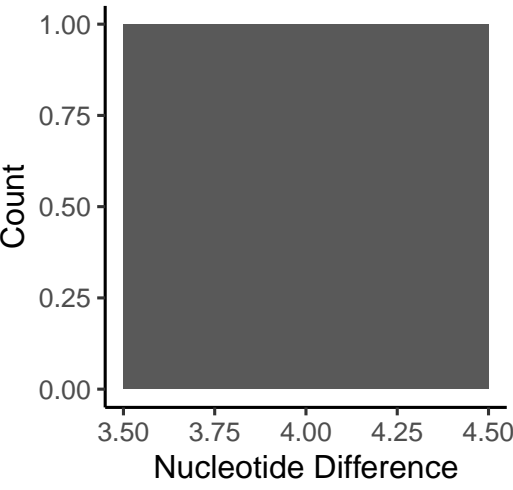
IGHV4-38-2*02_A70G

699 sequences assigned
618 (88.4%) exact matches, in which:
574 unique CDR3
6 unique J



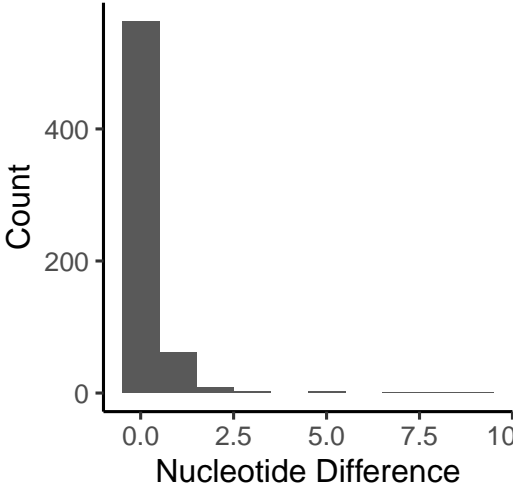
IGHV4-28*06

1 sequences assigned
No exact matches.



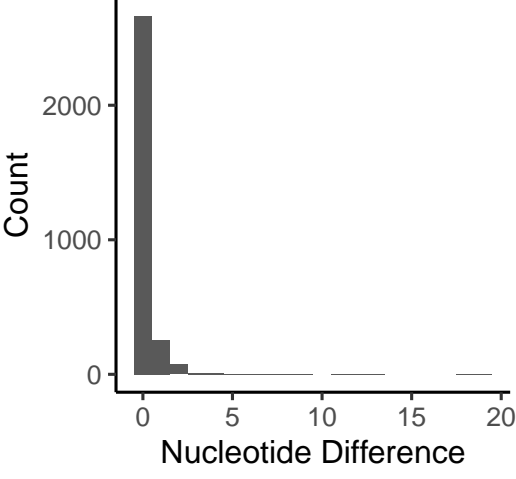
IGHV4-31*03

642 sequences assigned
563 (87.7%) exact matches, in which:
541 unique CDR3
6 unique J



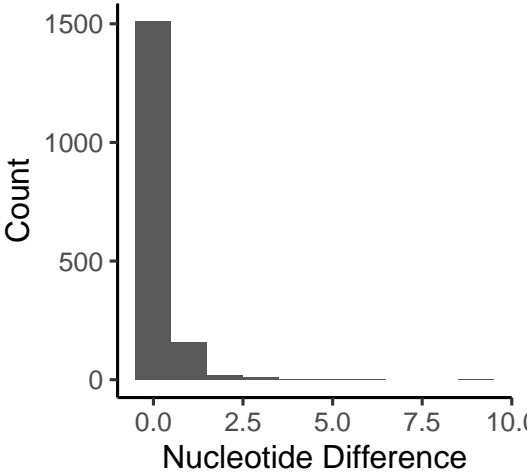
IGHV4-39*01

3028 sequences assigned
2663 (87.9%) exact matches, in which:
2458 unique CDR3
6 unique J



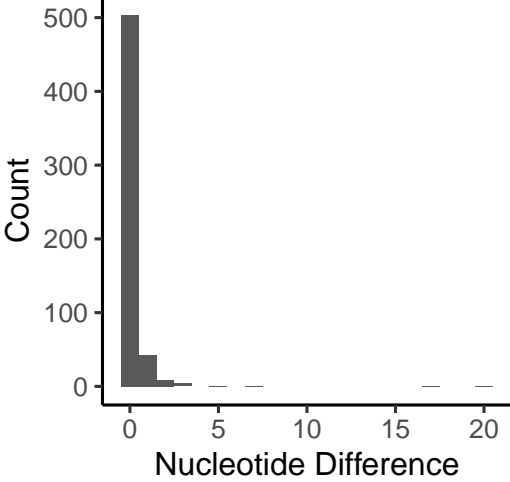
IGHV4-59*01

1704 sequences assigned
1510 (88.6%) exact matches, in which:
1460 unique CDR3
6 unique J



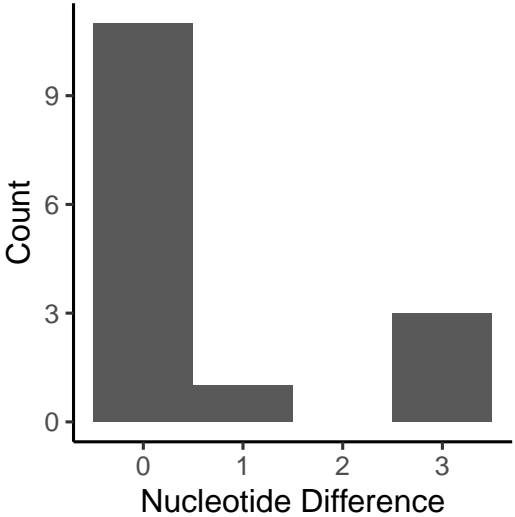
IGHV5-10-1*03

564 sequences assigned
504 (89.4%) exact matches, in which:
480 unique CDR3
6 unique J



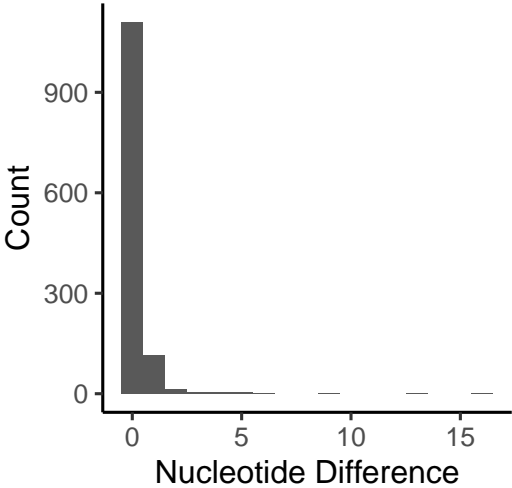
IGHV7-4-1*01

15 sequences assigned
11 (73.3%) exact matches, in which:
10 unique CDR3
5 unique J



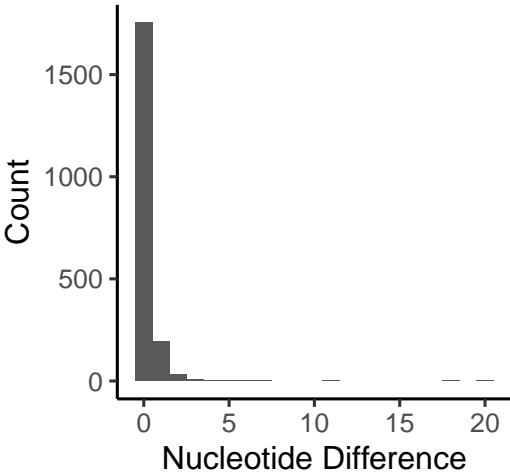
IGHV4-59*08

1257 sequences assigned
1110 (88.3%) exact matches, in which:
1062 unique CDR3
6 unique J



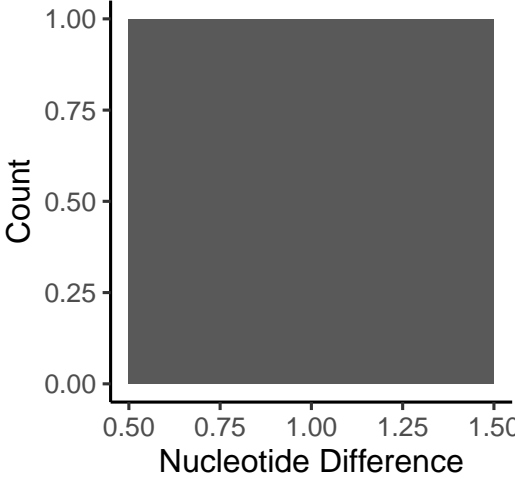
IGHV5-51*01

2003 sequences assigned
1754 (87.6%) exact matches, in which:
1668 unique CDR3
6 unique J



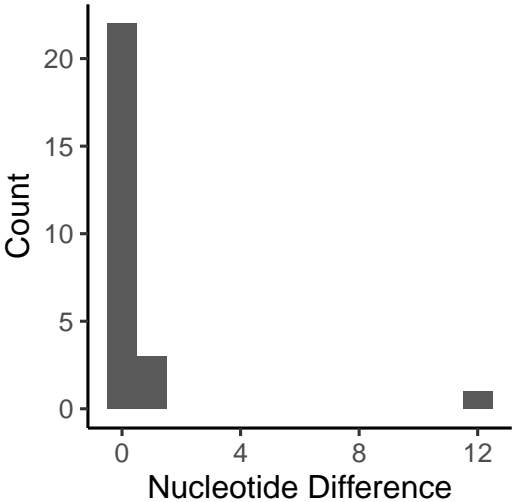
IGHV7-81*01

1 sequences assigned
No exact matches.



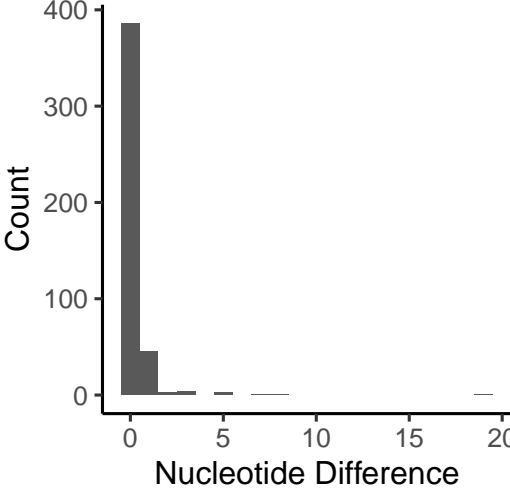
IGHV4-61*01

26 sequences assigned
22 (84.6%) exact matches, in which:
20 unique CDR3
4 unique J



IGHV6-1*01

444 sequences assigned
386 (86.9%) exact matches, in which:
372 unique CDR3
6 unique J





Warning – no inferred sequences found.