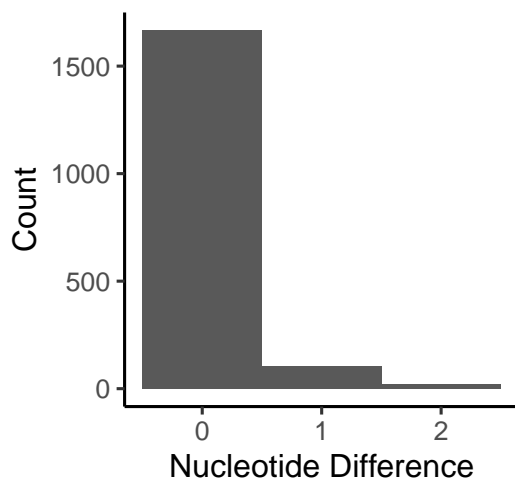


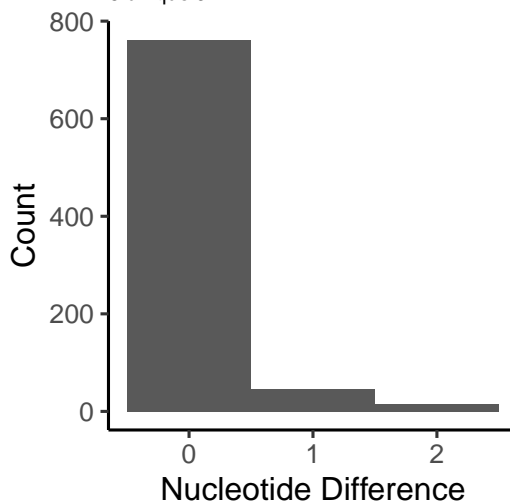
IGHV1-2*02

1794 sequences assigned
1666 (92.9%) exact matches, in which:
1657 unique CDR3
6 unique J



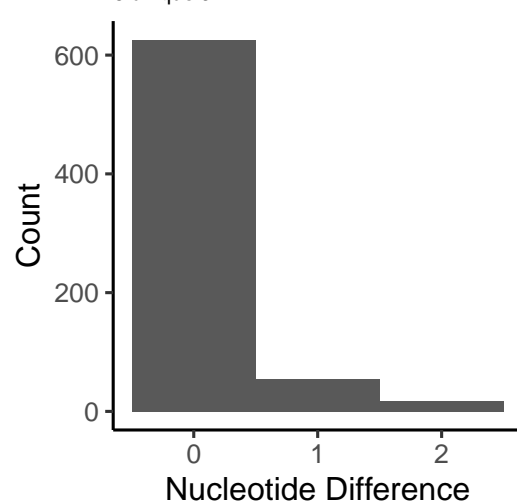
IGHV1-8*01

823 sequences assigned
762 (92.6%) exact matches, in which:
762 unique CDR3
6 unique J



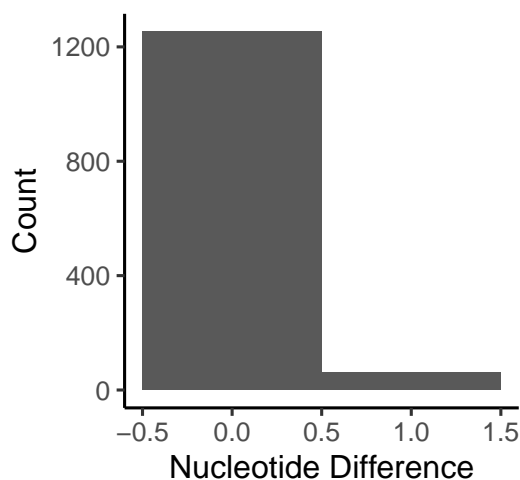
IGHV1-46*01

697 sequences assigned
626 (89.8%) exact matches, in which:
625 unique CDR3
6 unique J



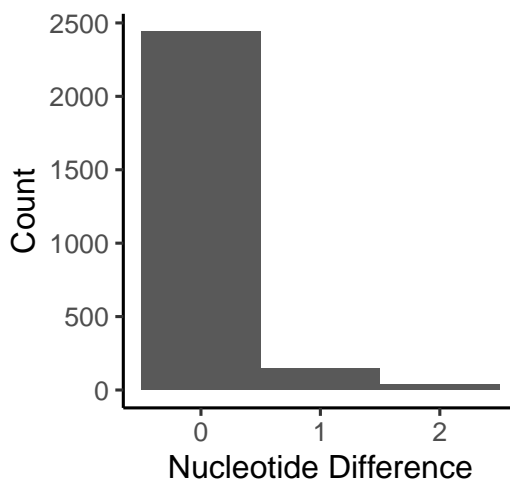
IGHV1-2*06

1316 sequences assigned
1253 (95.2%) exact matches, in which:
1252 unique CDR3
6 unique J



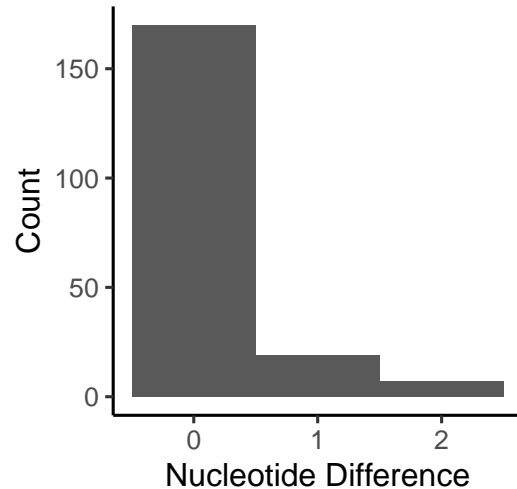
IGHV1-18*01

2628 sequences assigned
2440 (92.8%) exact matches, in which:
2431 unique CDR3
6 unique J



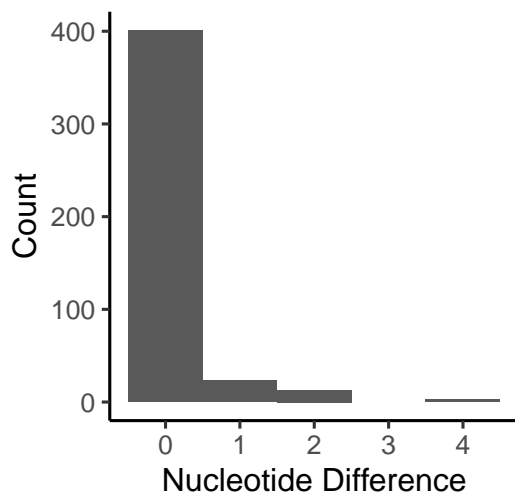
IGHV1-58*01_03

196 sequences assigned
170 (86.7%) exact matches, in which:
169 unique CDR3
6 unique J



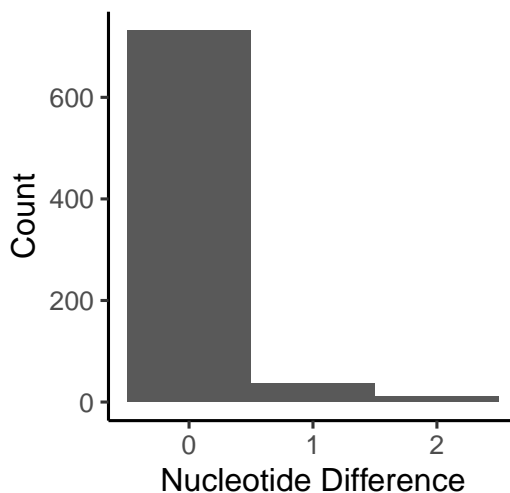
IGHV1-3*01_05

440 sequences assigned
401 (91.1%) exact matches, in which:
399 unique CDR3
6 unique J



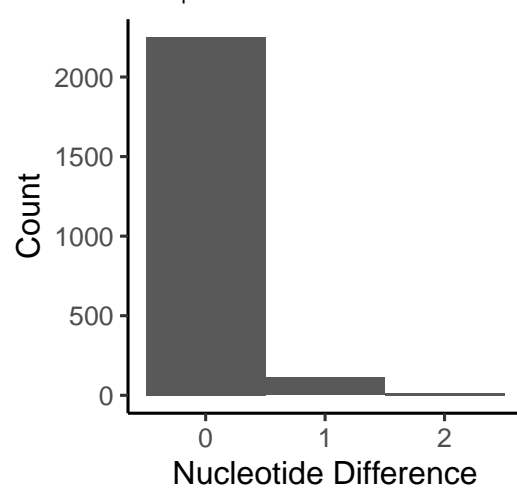
IGHV1-24*01

779 sequences assigned
732 (94%) exact matches, in which:
732 unique CDR3
6 unique J



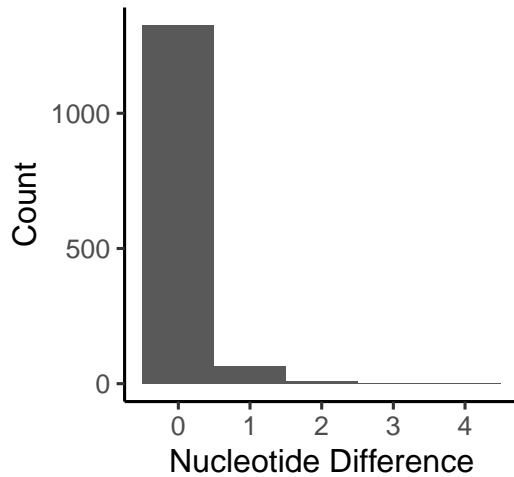
IGHV1-69*01_12_13

2378 sequences assigned
2251 (94.7%) exact matches, in which:
2247 unique CDR3
6 unique J



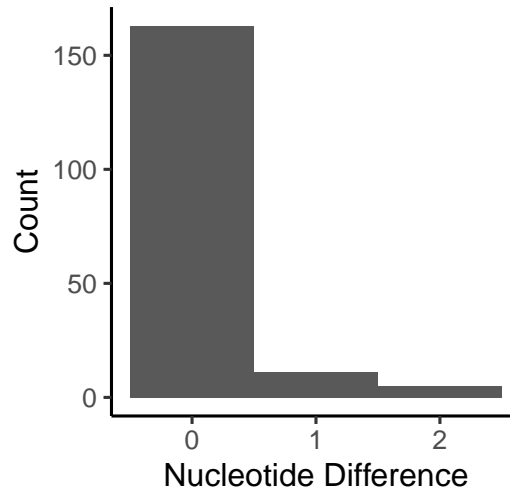
IGHV1-69*06_14

1404 sequences assigned
1325 (94.4%) exact matches, in which:
1321 unique CDR3
6 unique J



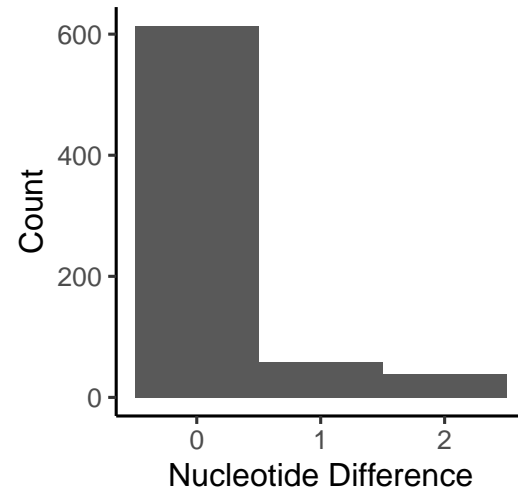
IGHV2-26*01

179 sequences assigned
163 (91.1%) exact matches, in which:
163 unique CDR3
5 unique J



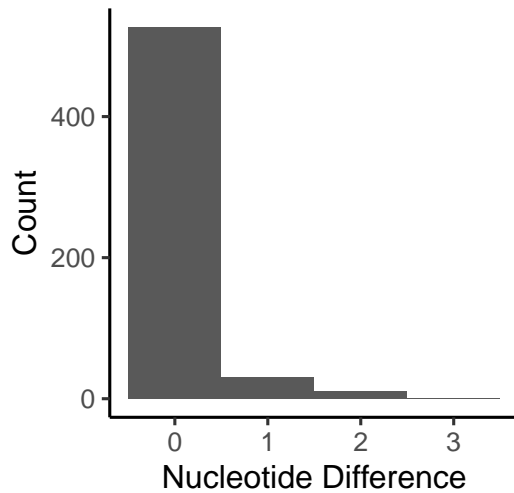
IGHV3-9*01

711 sequences assigned
614 (86.4%) exact matches, in which:
598 unique CDR3
6 unique J



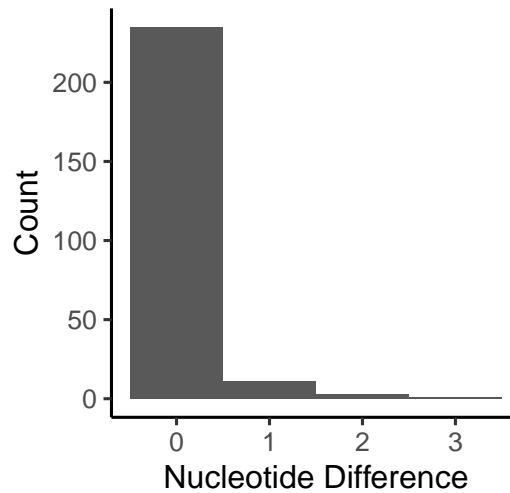
IGHV2-5*01

569 sequences assigned
527 (92.6%) exact matches, in which:
524 unique CDR3
6 unique J



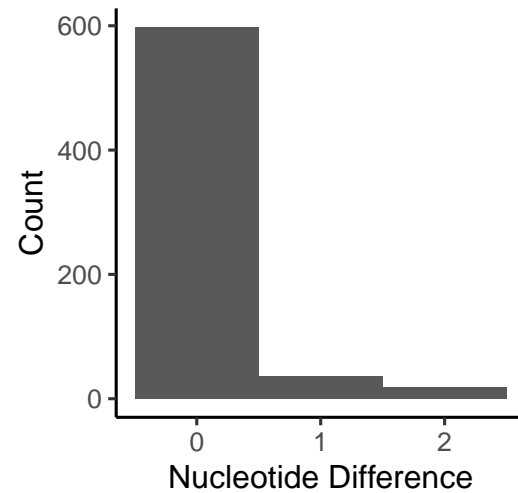
IGHV2-70*01

250 sequences assigned
235 (94%) exact matches, in which:
234 unique CDR3
5 unique J



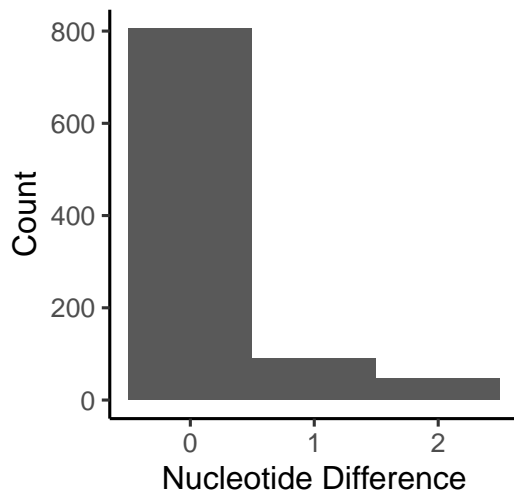
IGHV3-11*01

652 sequences assigned
598 (91.7%) exact matches, in which:
583 unique CDR3
6 unique J



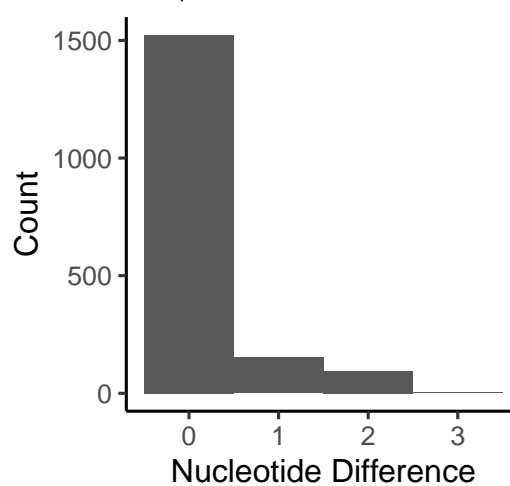
IGHV2-5*02

942 sequences assigned
806 (85.6%) exact matches, in which:
802 unique CDR3
6 unique J



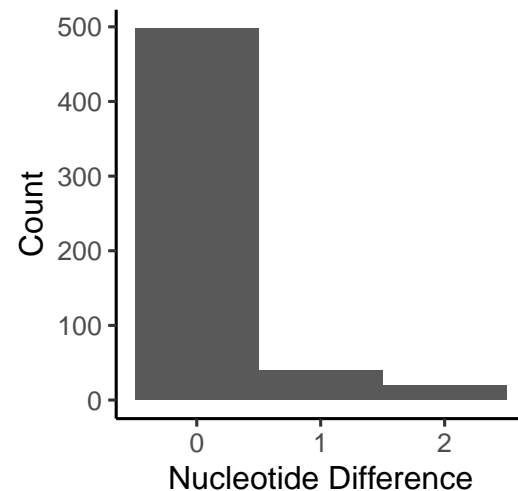
IGHV3-7*01

1773 sequences assigned
1523 (85.9%) exact matches, in which:
1473 unique CDR3
6 unique J



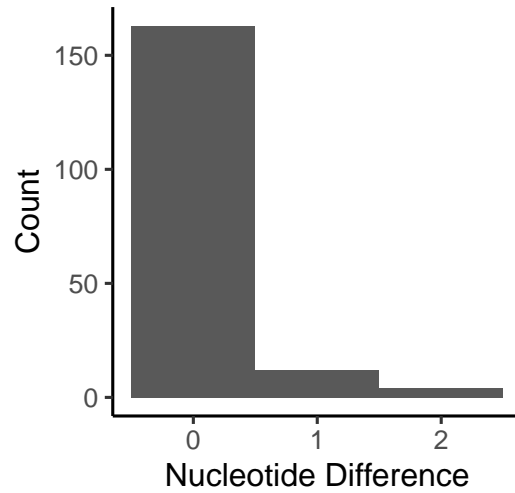
IGHV3-11*06_T300C

557 sequences assigned
498 (89.4%) exact matches, in which:
485 unique CDR3
6 unique J



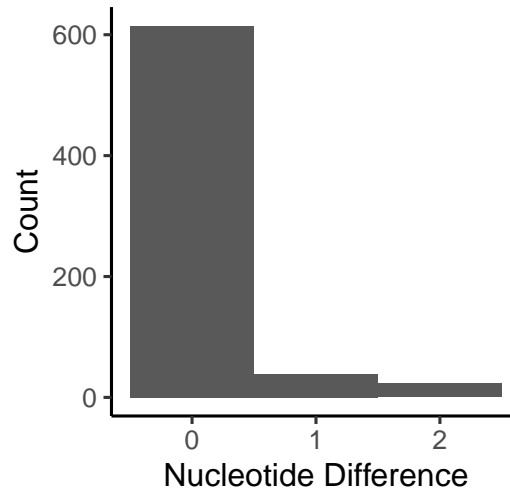
IGHV3-13*01

179 sequences assigned
163 (91.1%) exact matches, in which:
156 unique CDR3
5 unique J



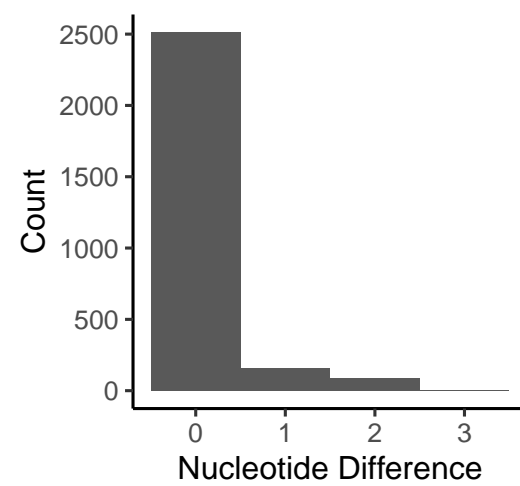
IGHV3-15*01_02

677 sequences assigned
615 (90.8%) exact matches, in which:
596 unique CDR3
6 unique J



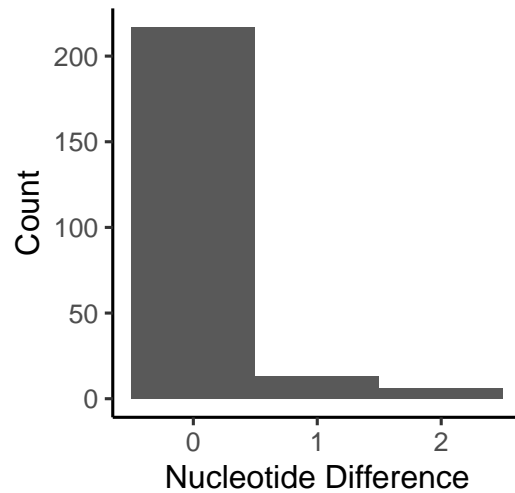
IGHV3-21*01_02

2762 sequences assigned
2512 (90.9%) exact matches, in which:
2395 unique CDR3
6 unique J



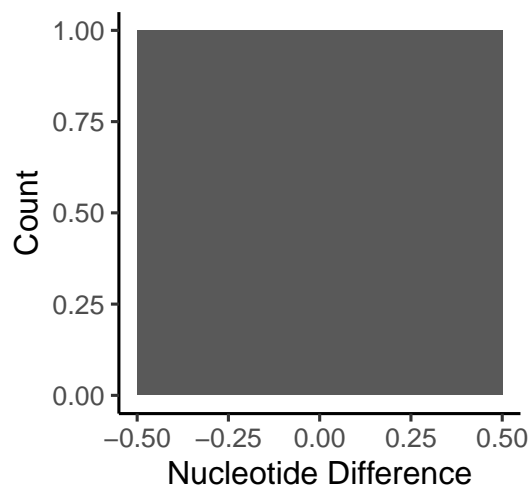
IGHV3-13*04

236 sequences assigned
217 (91.9%) exact matches, in which:
211 unique CDR3
5 unique J



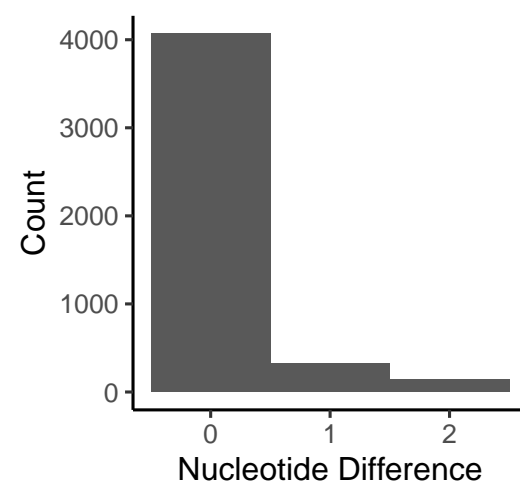
IGHV3-19*01

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



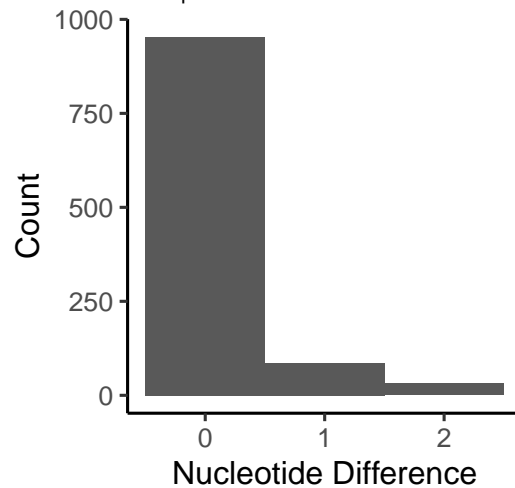
IGHV3-23*01_04

4533 sequences assigned
4068 (89.7%) exact matches, in which:
3906 unique CDR3
6 unique J



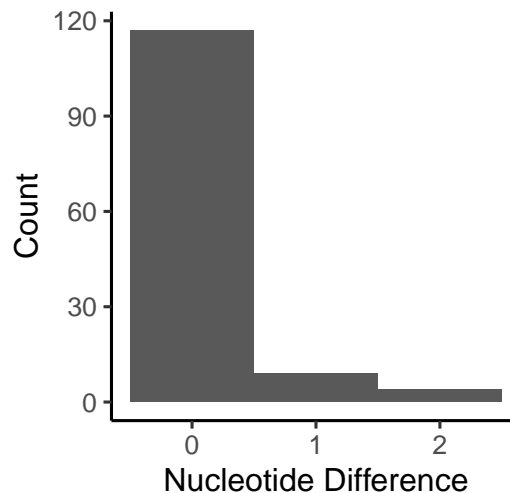
IGHV3-15*07

1070 sequences assigned
953 (89.1%) exact matches, in which:
916 unique CDR3
6 unique J



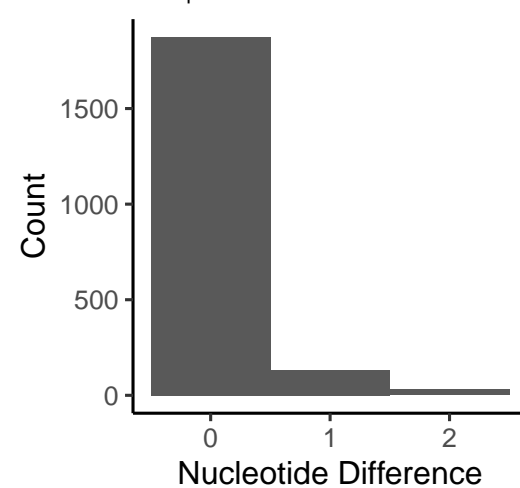
IGHV3-20*01_02

130 sequences assigned
117 (90%) exact matches, in which:
110 unique CDR3
5 unique J



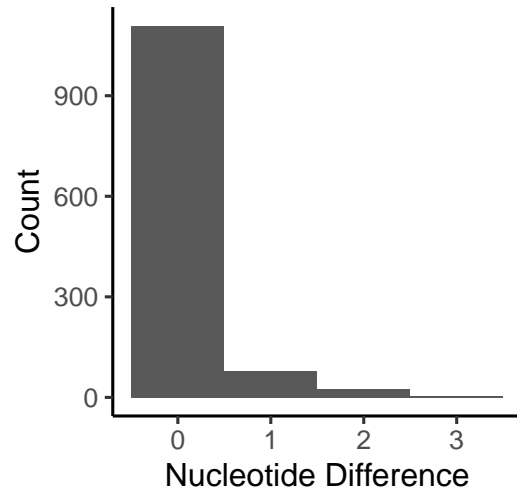
IGHV3-30-3*01

2038 sequences assigned
1874 (92%) exact matches, in which:
1835 unique CDR3
6 unique J



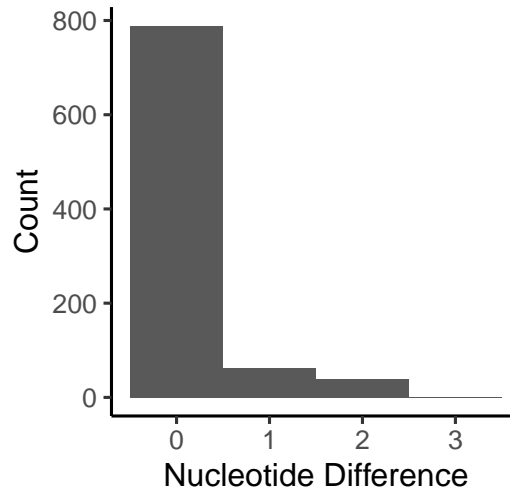
IGHV3–33*01

1215 sequences assigned
1109 (91.3%) exact matches, in which:
1083 unique CDR3
6 unique J



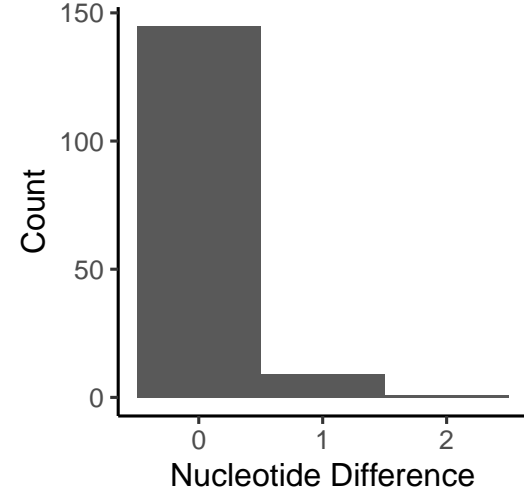
IGHV3–48*02

892 sequences assigned
789 (88.5%) exact matches, in which:
754 unique CDR3
6 unique J



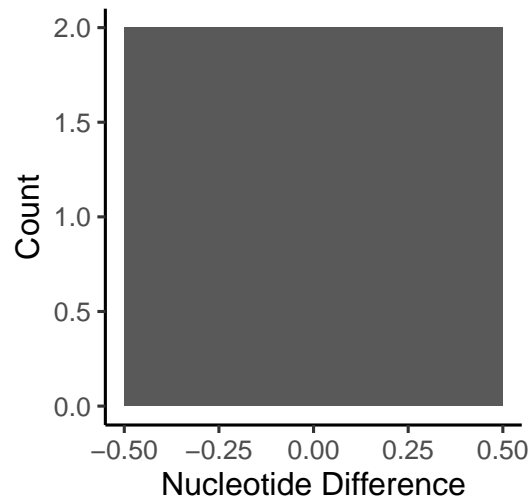
IGHV3–49*03_05

155 sequences assigned
145 (93.5%) exact matches, in which:
143 unique CDR3
5 unique J



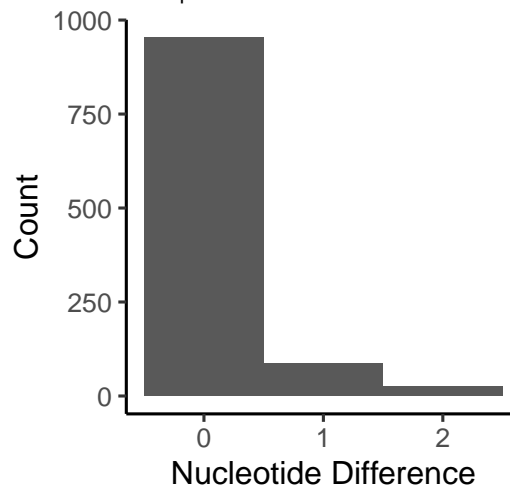
IGHV3–35*01

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



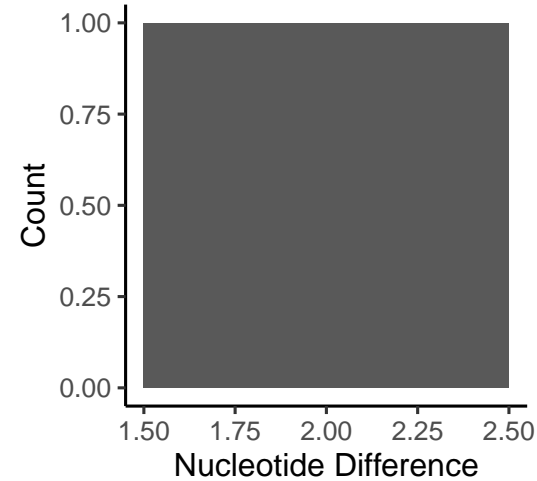
IGHV3–48*03

1065 sequences assigned
953 (89.5%) exact matches, in which:
921 unique CDR3
6 unique J



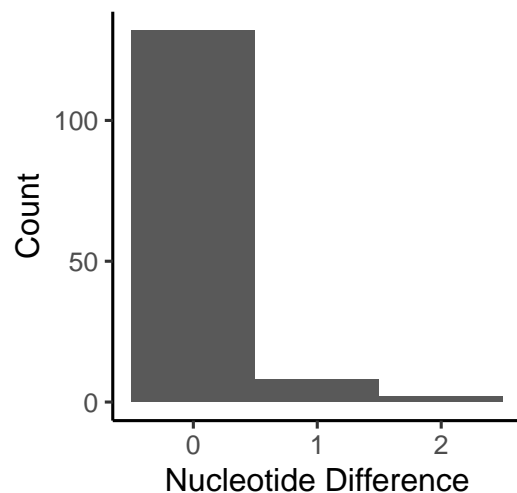
IGHV3–52*01_03

1 sequences assigned
No exact matches.



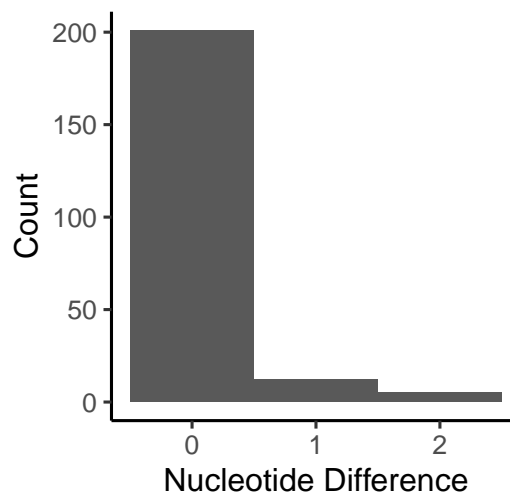
IGHV3–43*01

142 sequences assigned
132 (93%) exact matches, in which:
128 unique CDR3
6 unique J



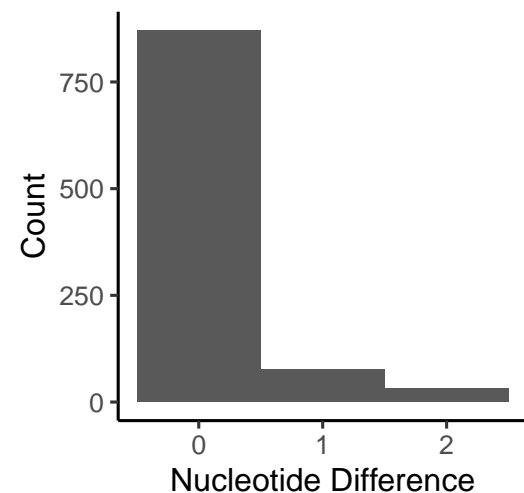
IGHV3–49*04

218 sequences assigned
201 (92.2%) exact matches, in which:
201 unique CDR3
6 unique J



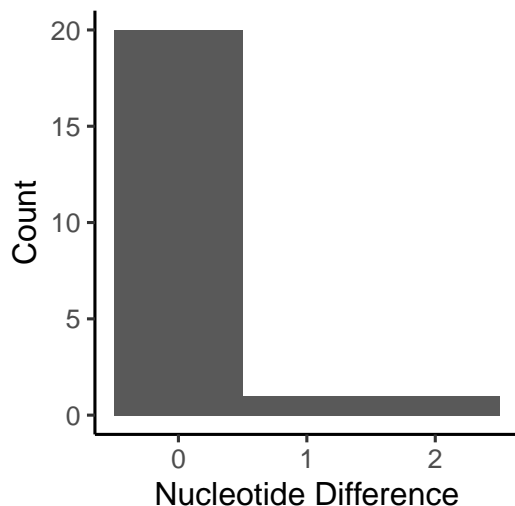
IGHV3–53*01_02

978 sequences assigned
871 (89.1%) exact matches, in which:
828 unique CDR3
6 unique J



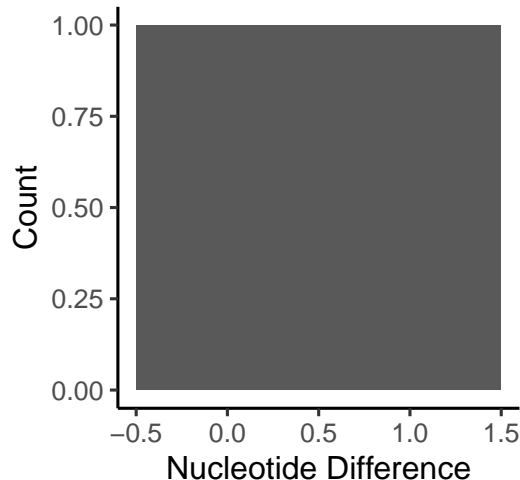
IGHV3-64*02_07

22 sequences assigned
20 (90.9%) exact matches, in which:
19 unique CDR3
4 unique J



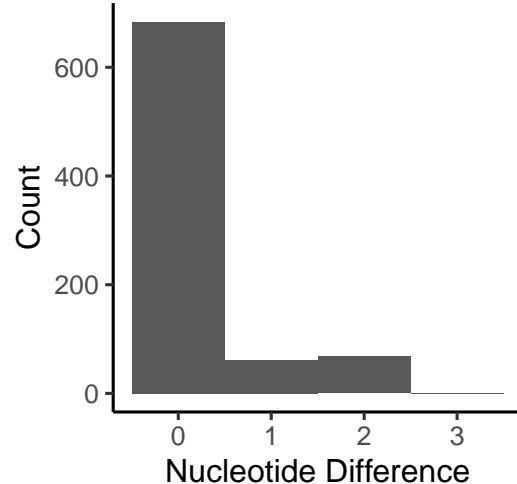
IGHV3-69-1*02

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



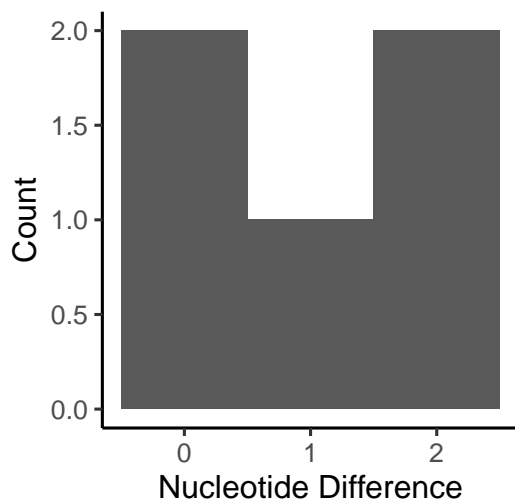
IGHV3-74*01_02

814 sequences assigned
684 (84%) exact matches, in which:
653 unique CDR3
6 unique J



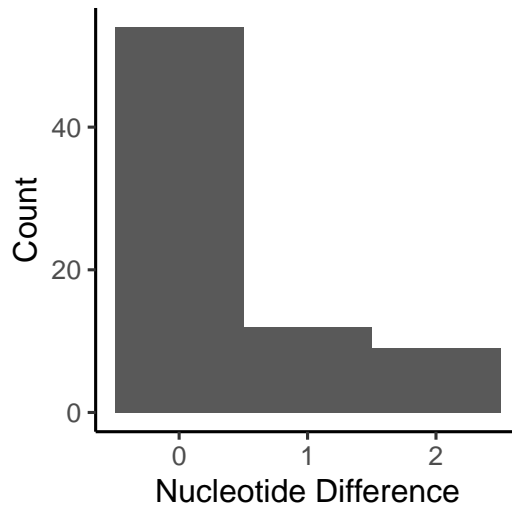
IGHV3-66*03

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



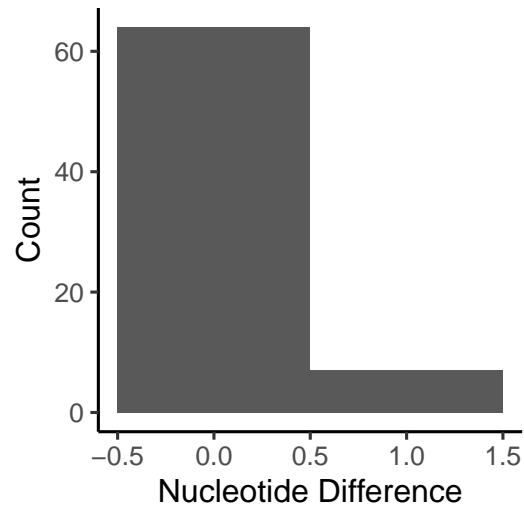
IGHV3-72*01

75 sequences assigned
54 (72%) exact matches, in which:
51 unique CDR3
5 unique J



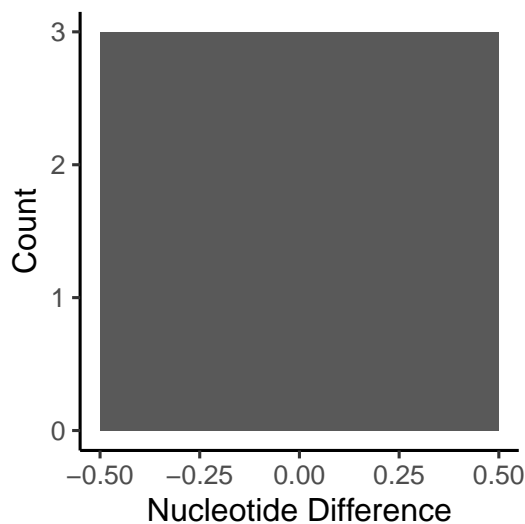
IGHV3-43D*04

71 sequences assigned
64 (90.1%) exact matches, in which:
62 unique CDR3
6 unique J



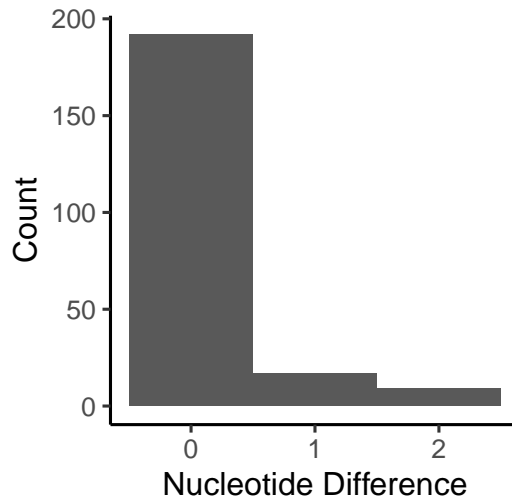
IGHV3-69-1*01

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



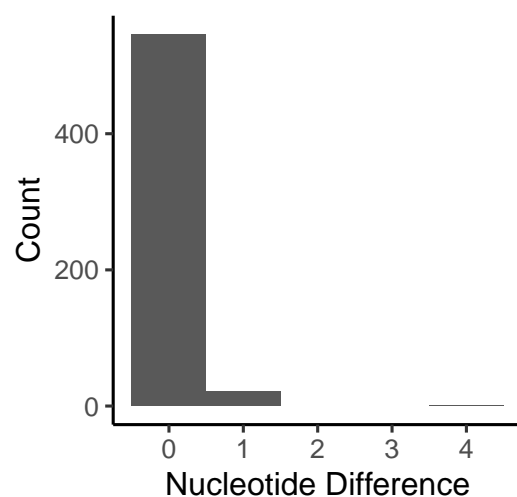
IGHV3-73*01_02

218 sequences assigned
192 (88.1%) exact matches, in which:
191 unique CDR3
6 unique J



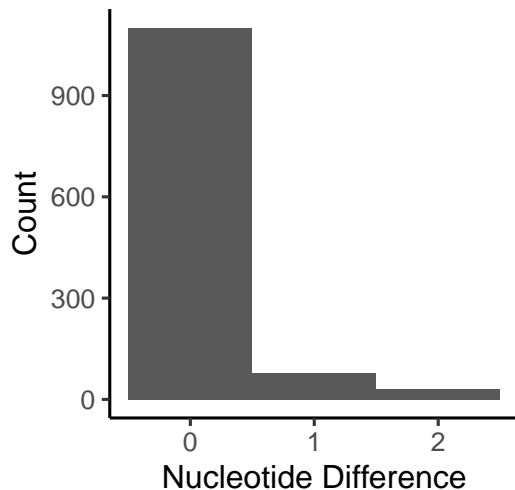
IGHV3-64D*09

569 sequences assigned
546 (96%) exact matches, in which:
536 unique CDR3
6 unique J



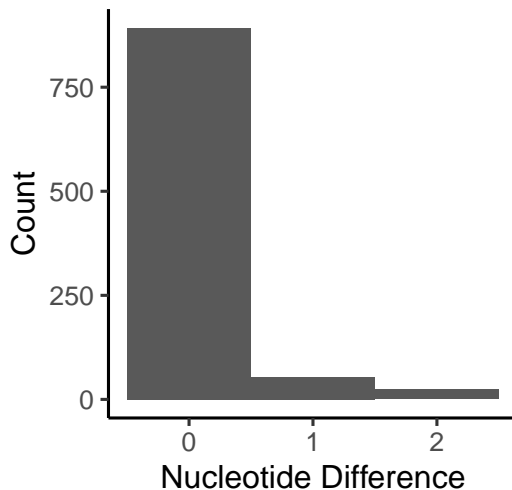
IGHV4-4*07

1209 sequences assigned
1101 (91.1%) exact matches, in which:
1073 unique CDR3
6 unique J



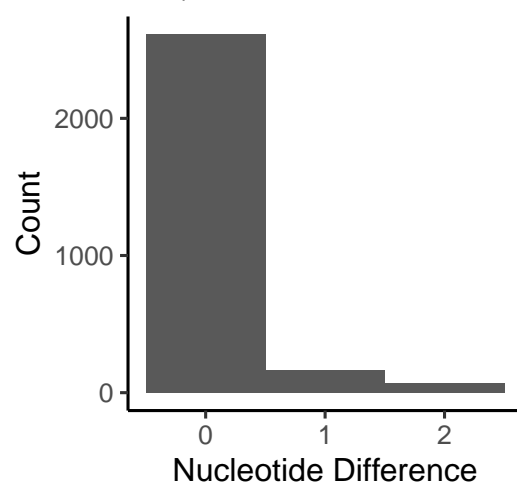
IGHV4-30-4*01

971 sequences assigned
893 (92%) exact matches, in which:
878 unique CDR3
6 unique J



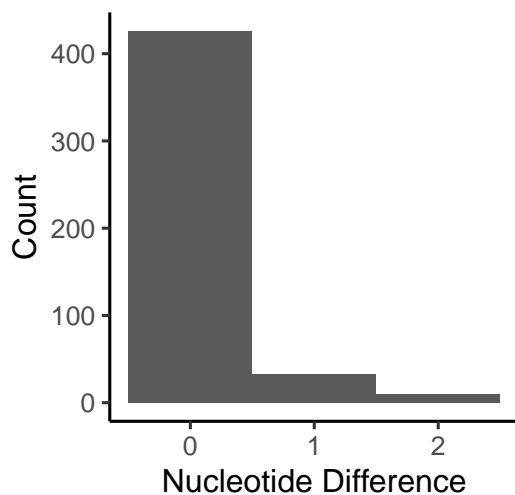
IGHV4-34*01_02

2844 sequences assigned
2612 (91.8%) exact matches, in which:
2541 unique CDR3
6 unique J



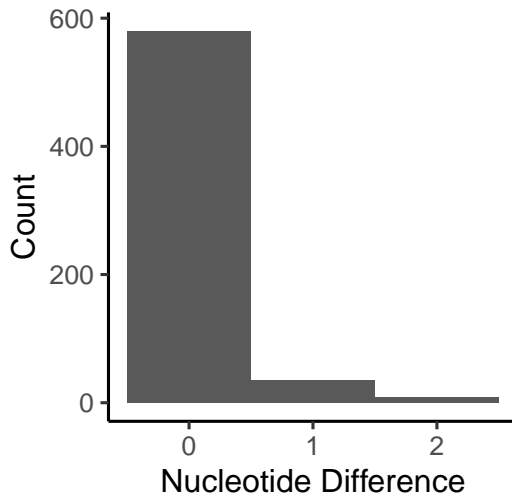
IGHV4-4*02_03

469 sequences assigned
426 (90.8%) exact matches, in which:
420 unique CDR3
6 unique J



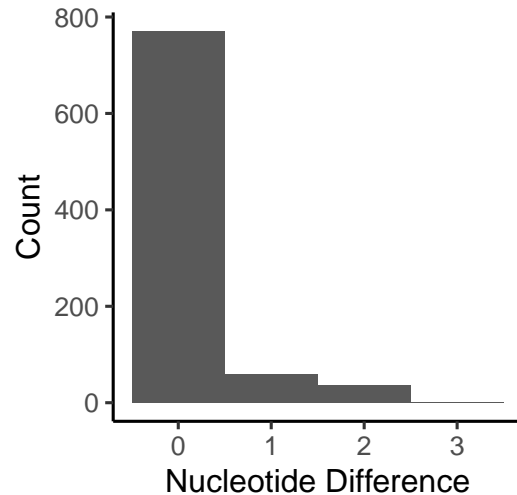
IGHV4-30-2*01

624 sequences assigned
580 (92.9%) exact matches, in which:
568 unique CDR3
6 unique J



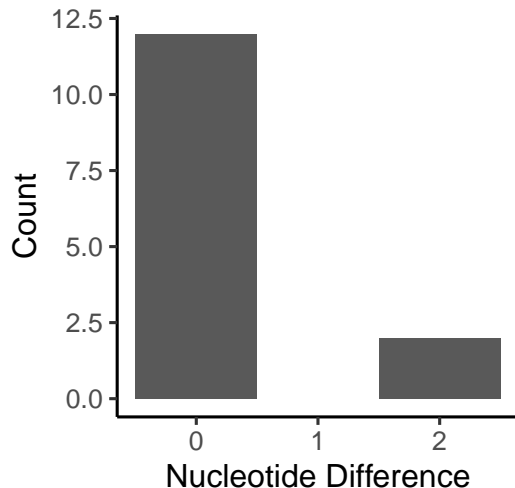
IGHV4-38-2*02_A70G

869 sequences assigned
771 (88.7%) exact matches, in which:
758 unique CDR3
6 unique J



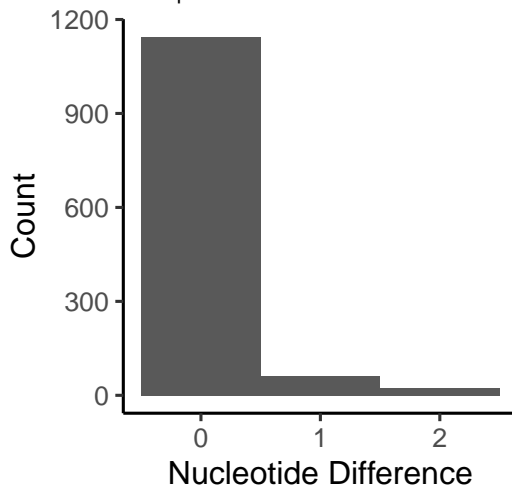
IGHV4-28*01_07

14 sequences assigned
12 (85.7%) exact matches, in which:
11 unique CDR3
5 unique J



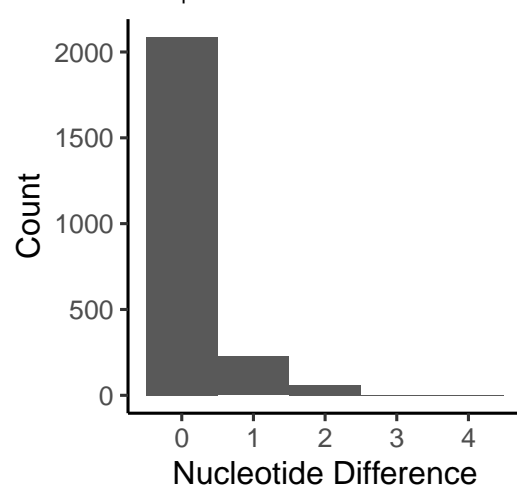
IGHV4-31*02

1228 sequences assigned
1144 (93.2%) exact matches, in which:
1129 unique CDR3
6 unique J



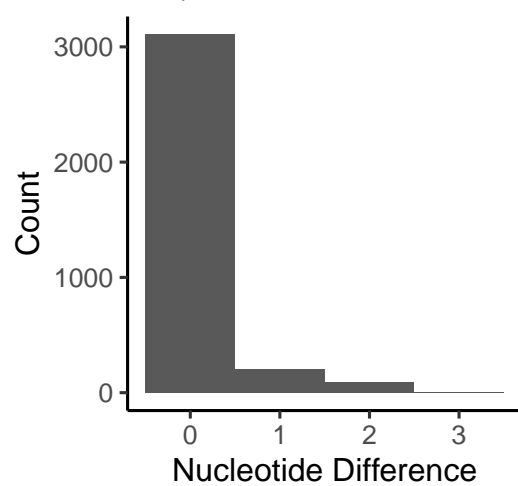
IGHV4-39*02_C258G

2379 sequences assigned
2087 (87.7%) exact matches, in which:
2033 unique CDR3
6 unique J



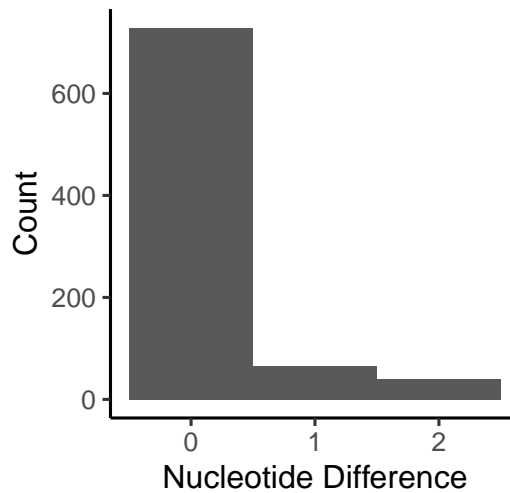
IGHV4-59*02_G88A

3408 sequences assigned
3108 (91.2%) exact matches, in which:
3007 unique CDR3
6 unique J



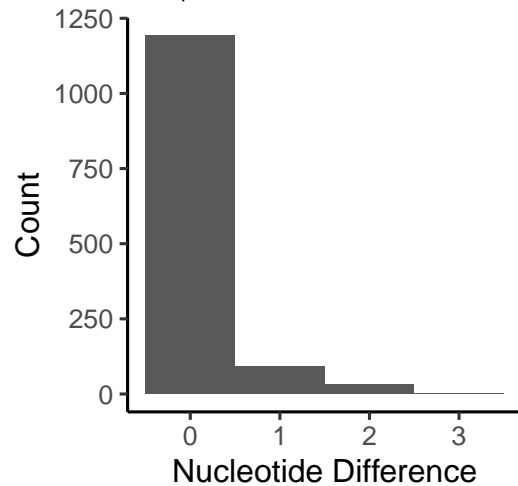
IGHV5-51*07_A128G

834 sequences assigned
729 (87.4%) exact matches, in which:
727 unique CDR3
6 unique J



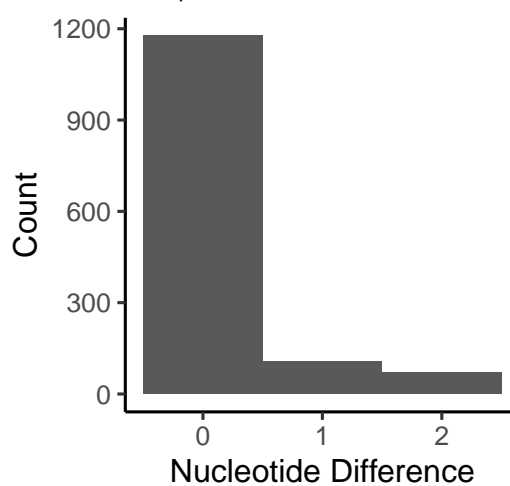
IGHV4-61*01

1317 sequences assigned
1192 (90.5%) exact matches, in which:
1158 unique CDR3
6 unique J



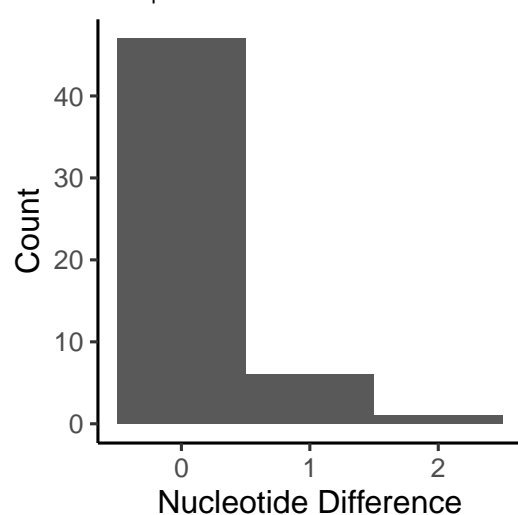
IGHV6-1*01_02

1354 sequences assigned
1177 (86.9%) exact matches, in which:
1172 unique CDR3
6 unique J



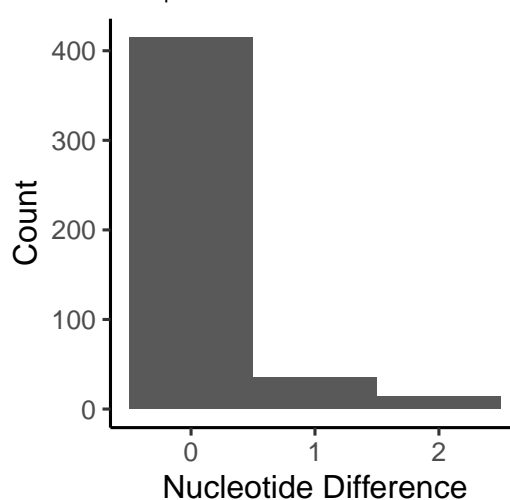
IGHV5-10-1*01_03

54 sequences assigned
47 (87%) exact matches, in which:
47 unique CDR3
5 unique J



IGHV7-4-1*02

464 sequences assigned
415 (89.4%) exact matches, in which:
414 unique CDR3
6 unique J





Warning – no inferred sequences found.