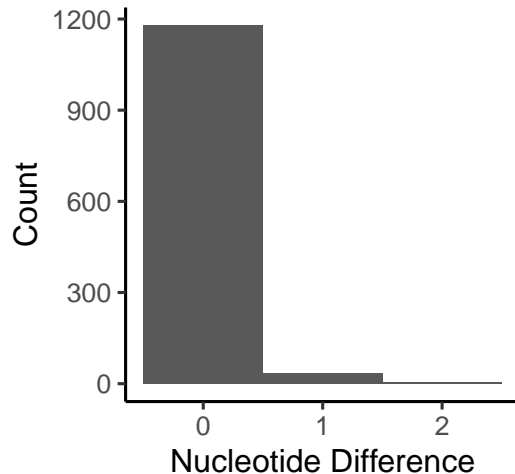


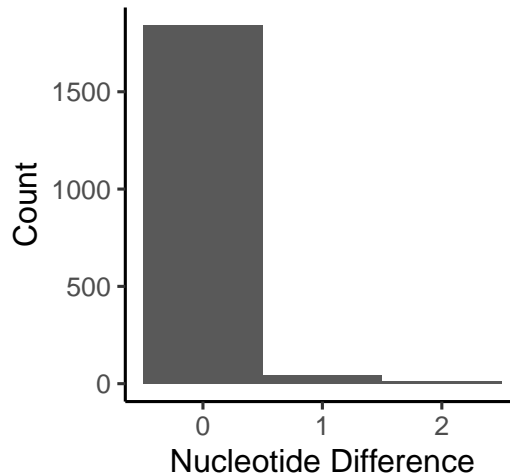
IGHV1-2*04

1219 sequences assigned
1179 (96.7%) exact matches, in which:
1178 unique CDR3
7 unique J



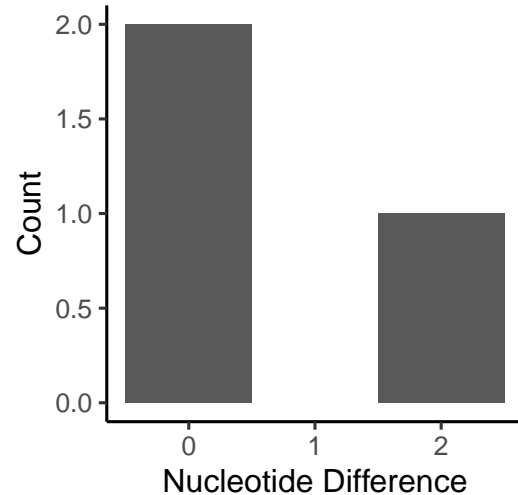
IGHV1-18*01

1897 sequences assigned
1841 (97%) exact matches, in which:
1840 unique CDR3
7 unique J



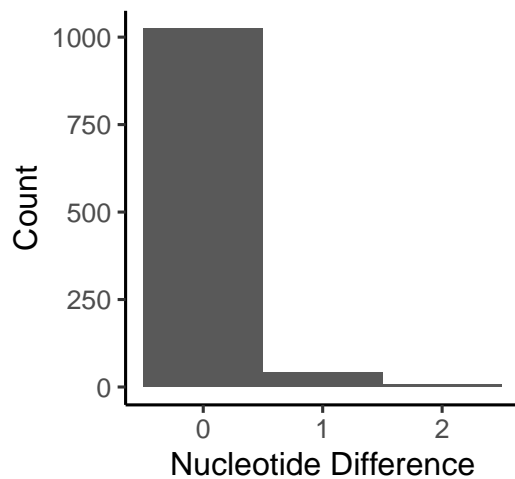
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



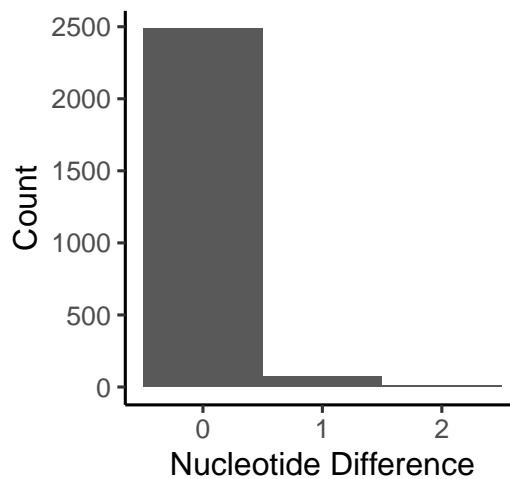
IGHV1-3*01_05

1073 sequences assigned
1024 (95.4%) exact matches, in which:
1023 unique CDR3
7 unique J



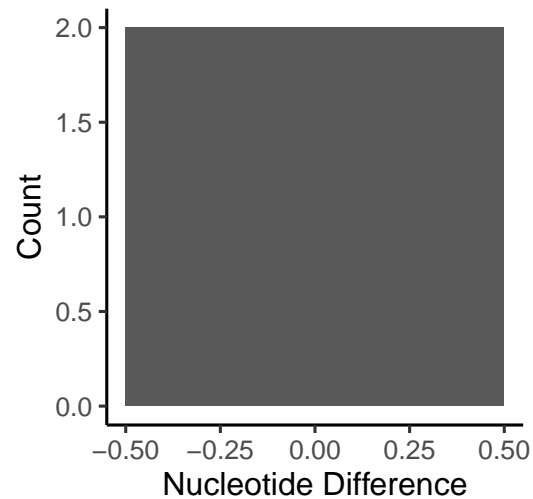
IGHV1-18*04

2566 sequences assigned
2486 (96.9%) exact matches, in which:
2483 unique CDR3
7 unique J



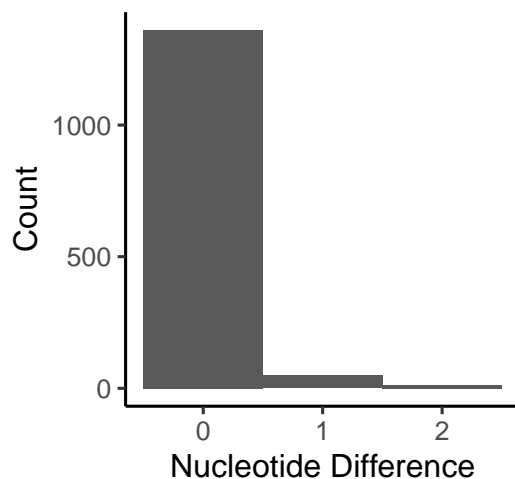
IGHV1-45*03

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



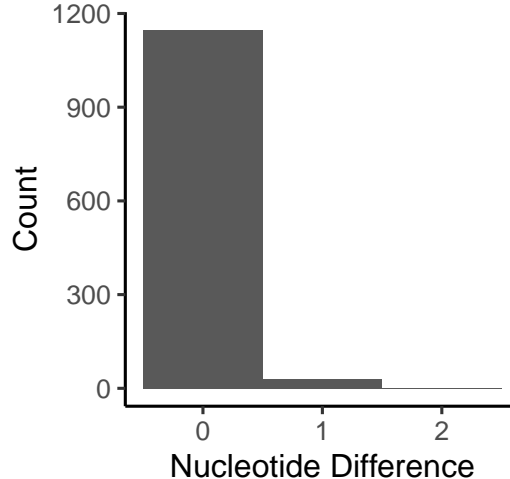
IGHV1-8*01

1422 sequences assigned
1361 (95.7%) exact matches, in which:
1361 unique CDR3
7 unique J



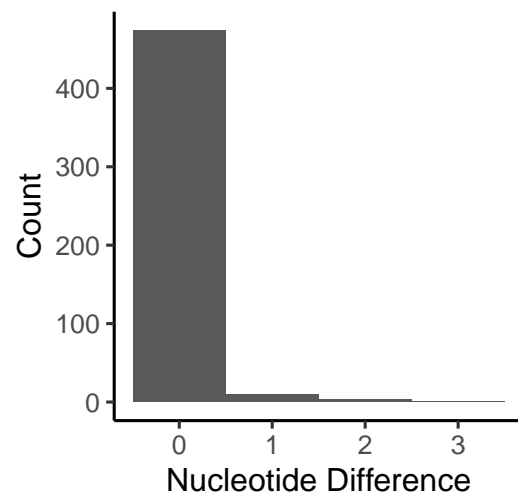
IGHV1-24*01

1179 sequences assigned
1147 (97.3%) exact matches, in which:
1145 unique CDR3
7 unique J



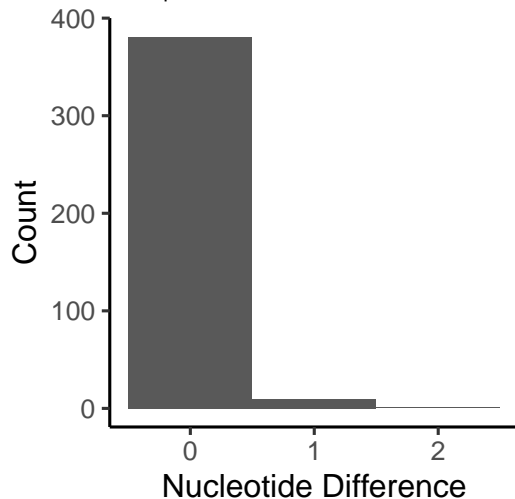
IGHV1-46*01

488 sequences assigned
474 (97.1%) exact matches, in which:
474 unique CDR3
7 unique J



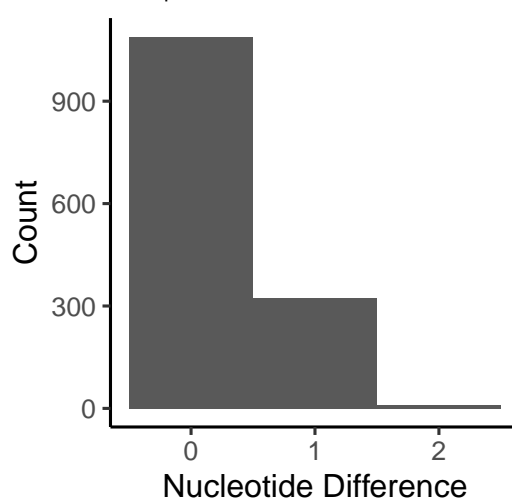
IGHV1–46*03

392 sequences assigned
381 (97.2%) exact matches, in which:
381 unique CDR3
6 unique J



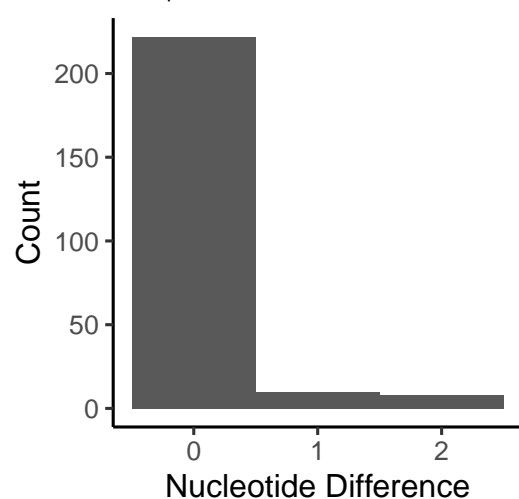
IGHV1–69*04_09

1422 sequences assigned
1089 (76.6%) exact matches, in which:
1088 unique CDR3
7 unique J



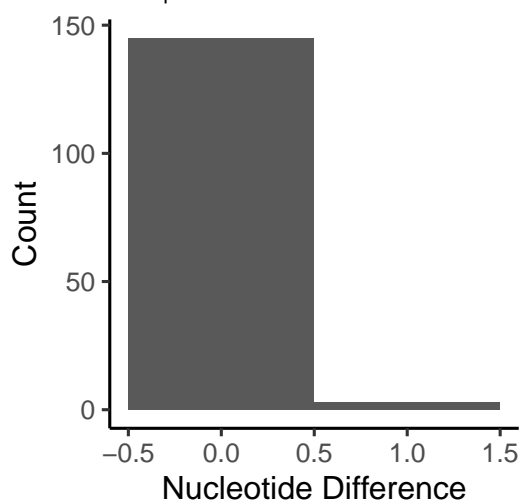
IGHV2–70*11_15

240 sequences assigned
222 (92.5%) exact matches, in which:
222 unique CDR3
6 unique J



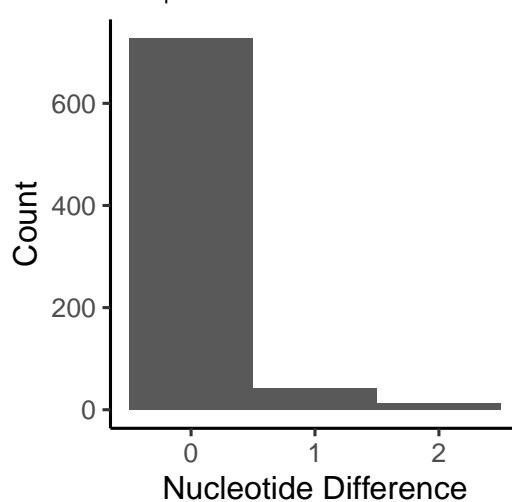
IGHV1–58*02

148 sequences assigned
145 (98%) exact matches, in which:
145 unique CDR3
6 unique J



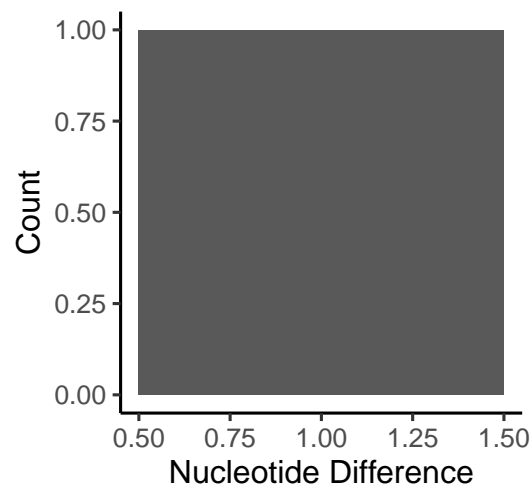
IGHV2–5*02

783 sequences assigned
728 (93%) exact matches, in which:
727 unique CDR3
7 unique J



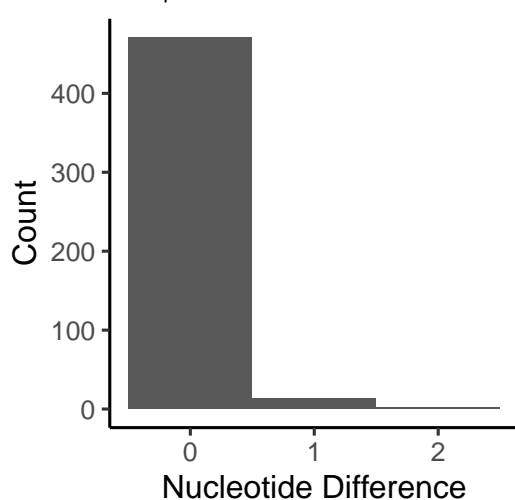
IGHV2–70D*04

1 sequences assigned
No exact matches.



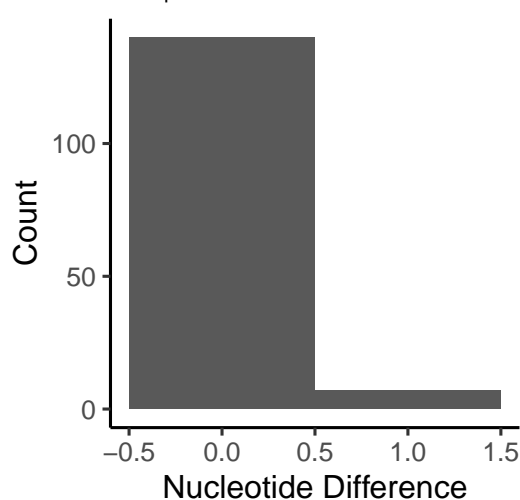
IGHV1–69*02

486 sequences assigned
471 (96.9%) exact matches, in which:
469 unique CDR3
7 unique J



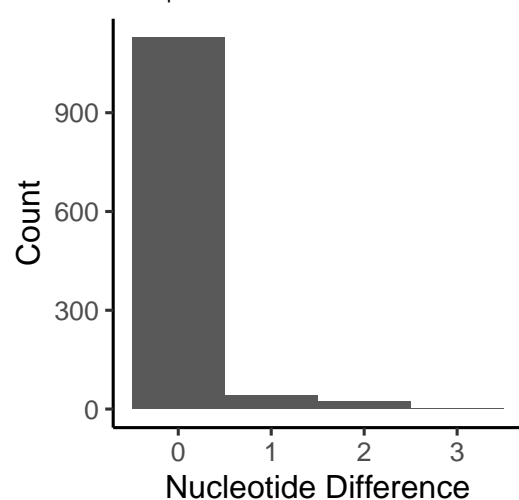
IGHV2–26*01

147 sequences assigned
140 (95.2%) exact matches, in which:
140 unique CDR3
7 unique J



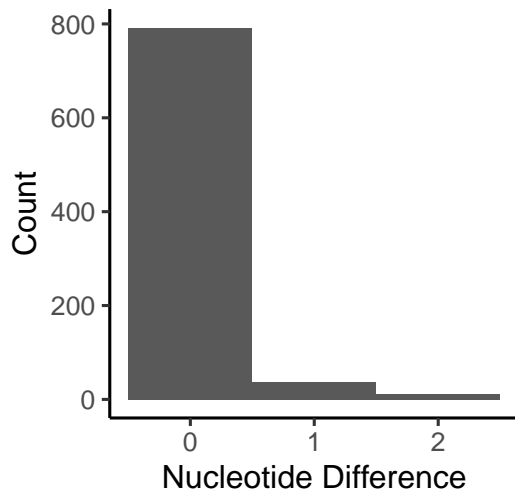
IGHV3–7*01

1197 sequences assigned
1129 (94.3%) exact matches, in which:
1114 unique CDR3
6 unique J



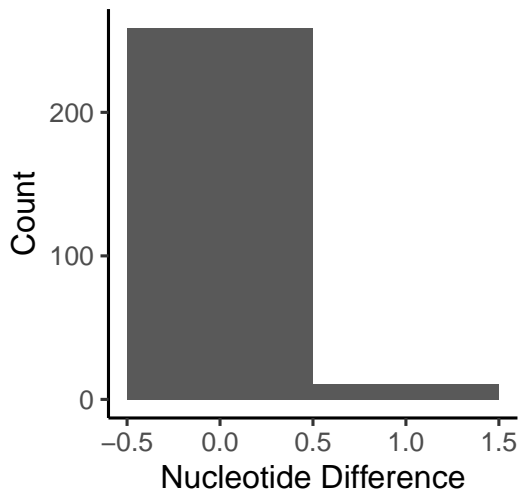
IGHV3-7*03

841 sequences assigned
792 (94.2%) exact matches, in which:
781 unique CDR3
7 unique J



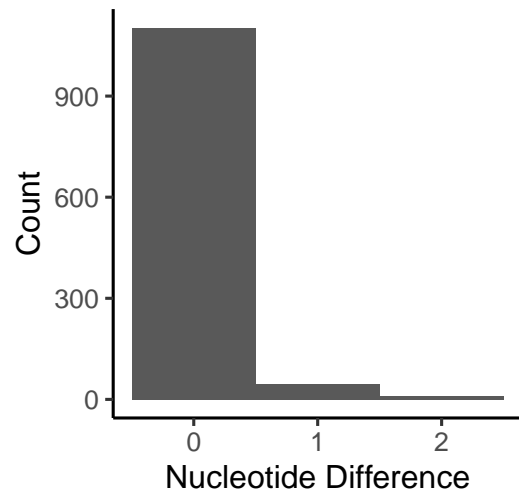
IGHV3-11*06

270 sequences assigned
259 (95.9%) exact matches, in which:
255 unique CDR3
7 unique J



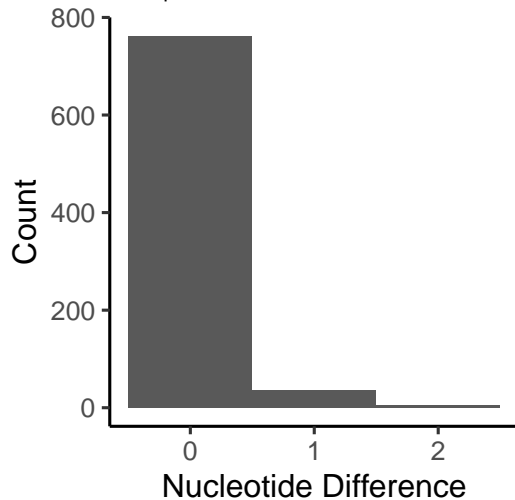
IGHV3-15*01_02

1158 sequences assigned
1103 (95.3%) exact matches, in which:
1094 unique CDR3
7 unique J



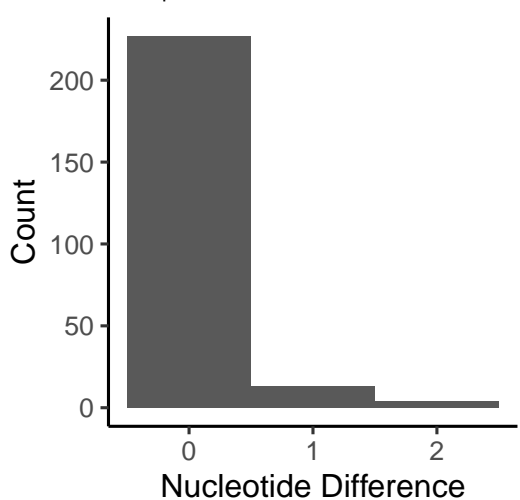
IGHV3-9*01

804 sequences assigned
762 (94.8%) exact matches, in which:
757 unique CDR3
6 unique J



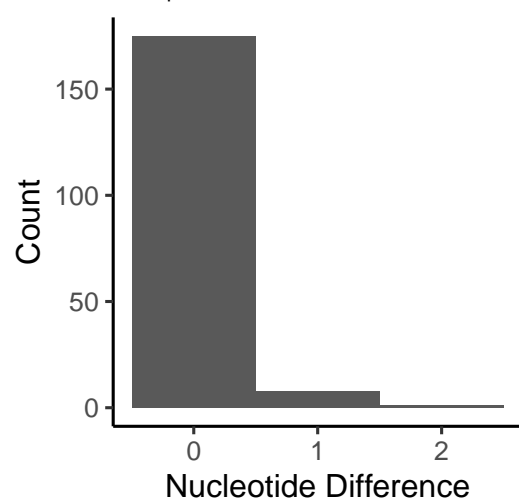
IGHV3-13*01

244 sequences assigned
227 (93%) exact matches, in which:
226 unique CDR3
6 unique J



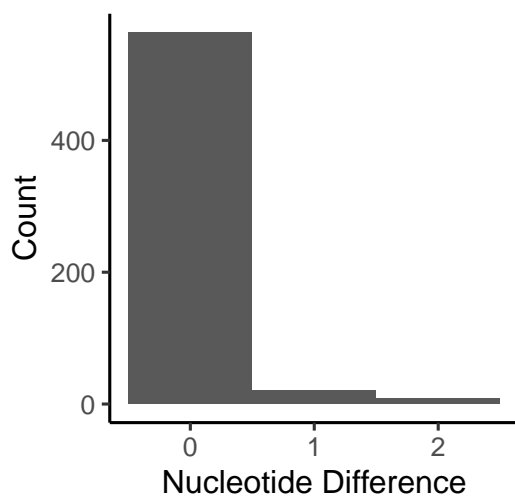
IGHV3-20*01_02

184 sequences assigned
175 (95.1%) exact matches, in which:
172 unique CDR3
6 unique J



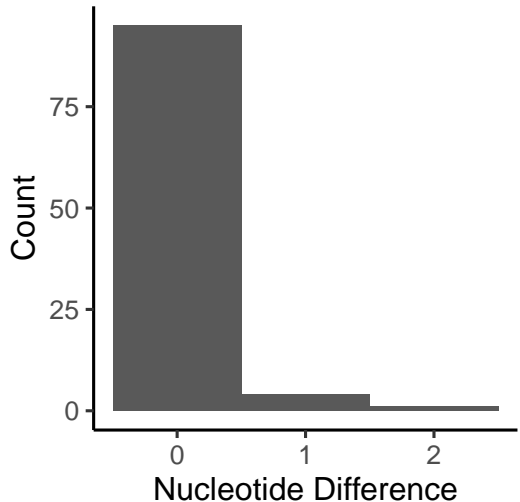
IGHV3-11*01

593 sequences assigned
564 (95.1%) exact matches, in which:
559 unique CDR3
7 unique J



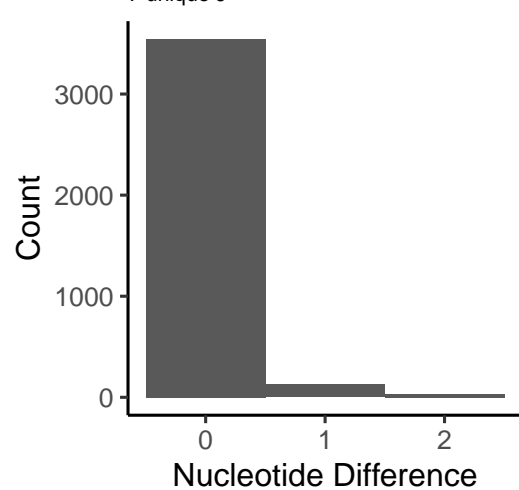
IGHV3-13*05

100 sequences assigned
95 (95%) exact matches, in which:
94 unique CDR3
5 unique J



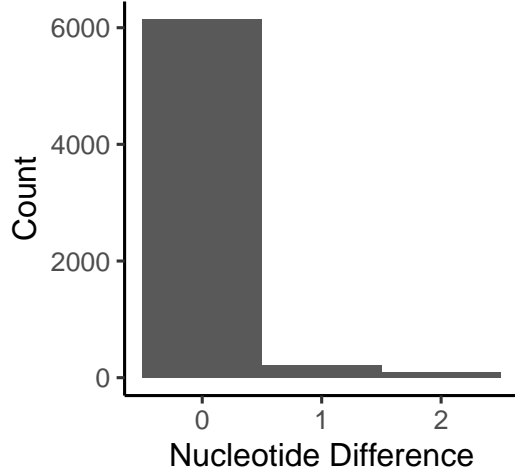
IGHV3-21*01_02

3700 sequences assigned
3544 (95.8%) exact matches, in which:
3512 unique CDR3
7 unique J



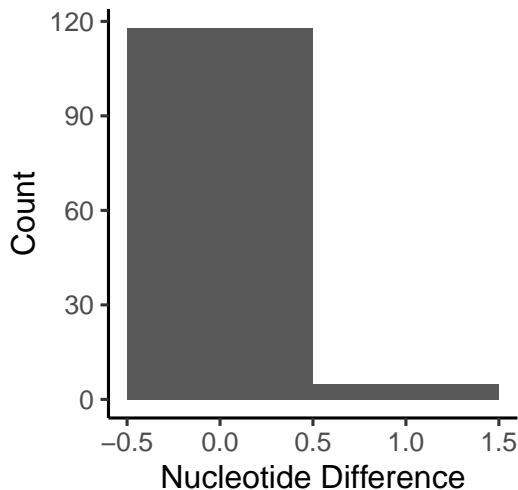
IGHV3-23*01_04

6444 sequences assigned
6142 (95.3%) exact matches, in which:
6074 unique CDR3
7 unique J



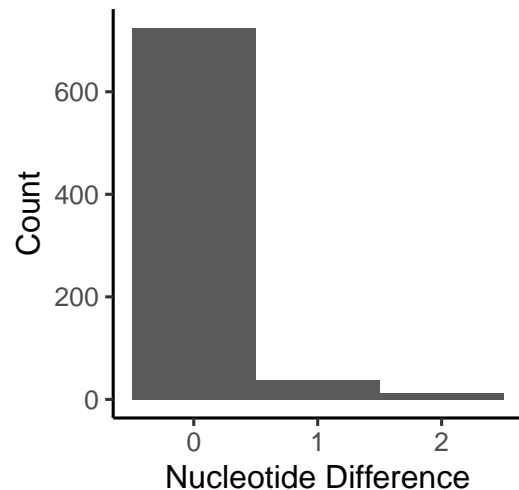
IGHV3-43*01

123 sequences assigned
118 (95.9%) exact matches, in which:
116 unique CDR3
5 unique J



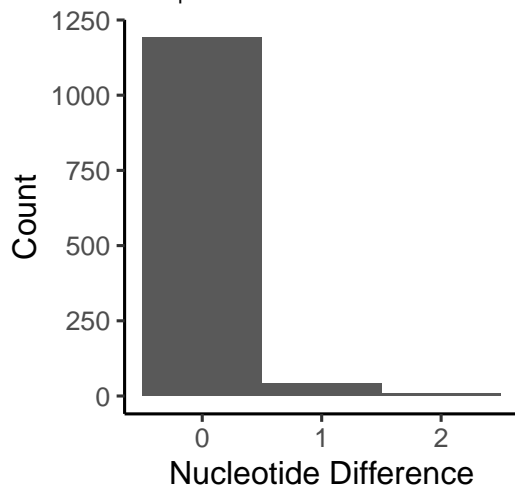
IGHV3-48*03

775 sequences assigned
725 (93.5%) exact matches, in which:
718 unique CDR3
7 unique J



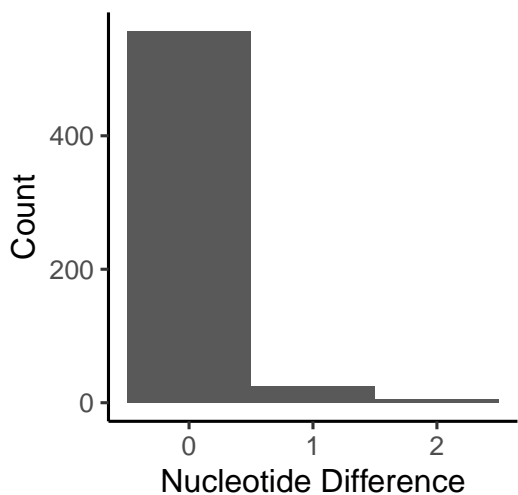
IGHV3-30-3*01

1241 sequences assigned
1191 (96%) exact matches, in which:
1187 unique CDR3
7 unique J



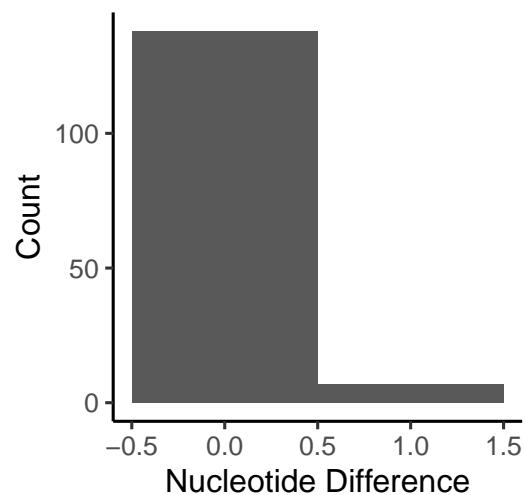
IGHV3-43*02

587 sequences assigned
557 (94.9%) exact matches, in which:
548 unique CDR3
6 unique J



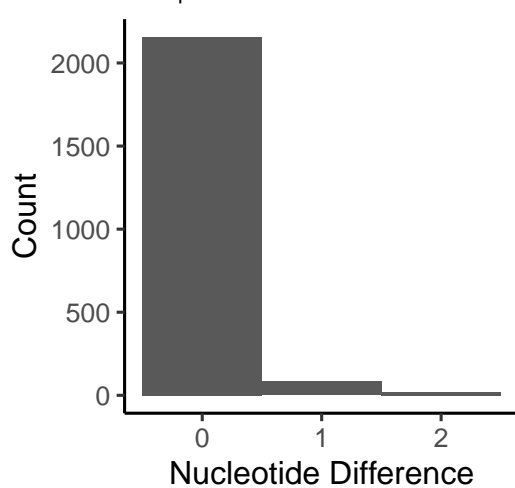
IGHV3-49*04

145 sequences assigned
138 (95.2%) exact matches, in which:
138 unique CDR3
5 unique J



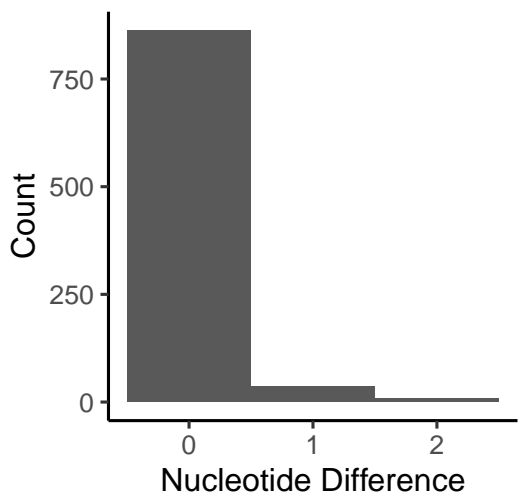
IGHV3-33*01

2261 sequences assigned
2156 (95.4%) exact matches, in which:
2132 unique CDR3
7 unique J



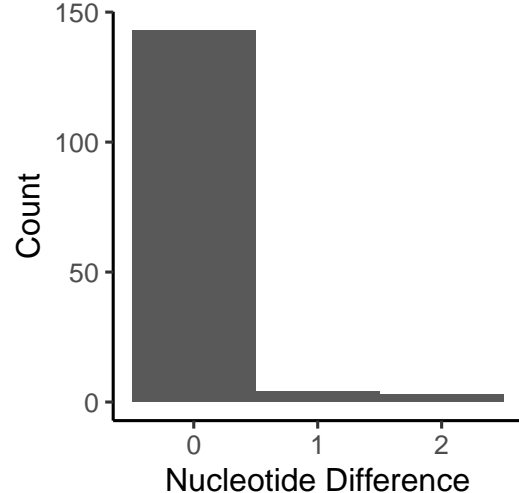
IGHV3-48*01

909 sequences assigned
863 (94.9%) exact matches, in which:
852 unique CDR3
7 unique J



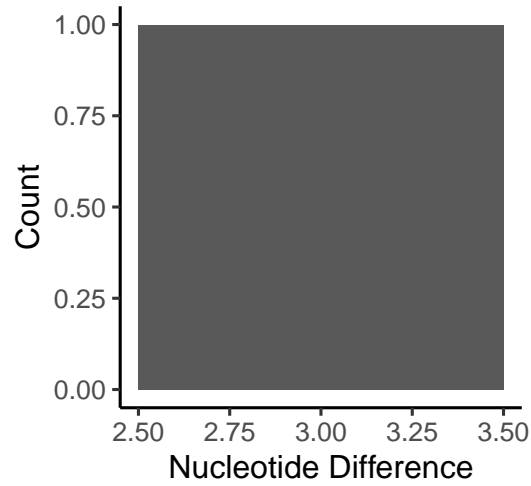
IGHV3-49*03_05

150 sequences assigned
143 (95.3%) exact matches, in which:
142 unique CDR3
4 unique J



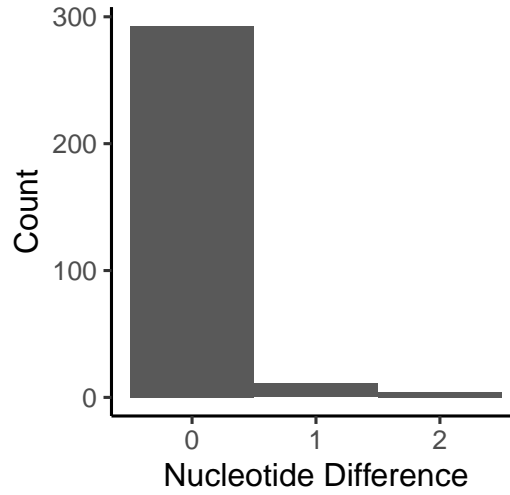
IGHV3-52*01_03

1 sequences assigned
No exact matches.



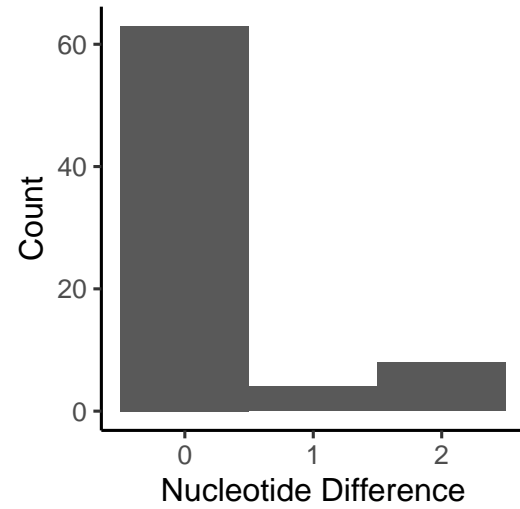
IGHV3-64*01

308 sequences assigned
293 (95.1%) exact matches, in which:
291 unique CDR3
7 unique J



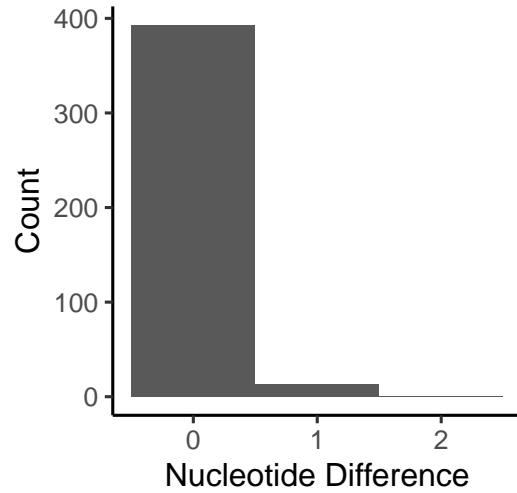
IGHV3-72*01

75 sequences assigned
63 (84%) exact matches, in which:
61 unique CDR3
7 unique J



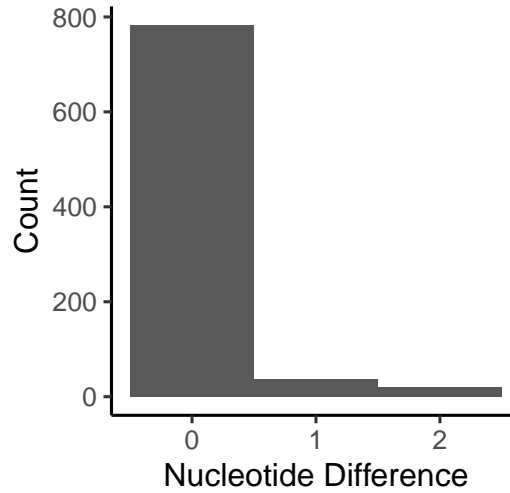
IGHV3-53*04

407 sequences assigned
393 (96.6%) exact matches, in which:
390 unique CDR3
7 unique J



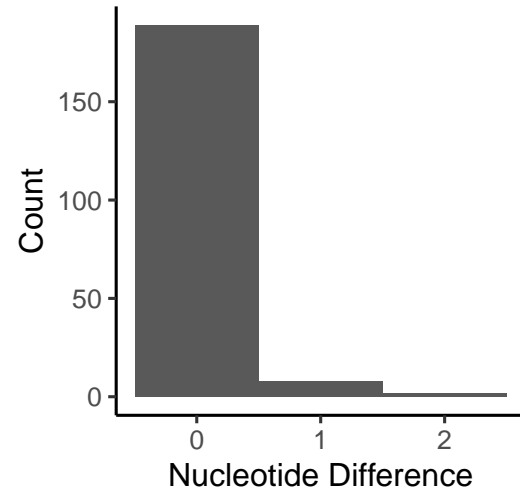
IGHV3-66*01

838 sequences assigned
783 (93.4%) exact matches, in which:
774 unique CDR3
7 unique J



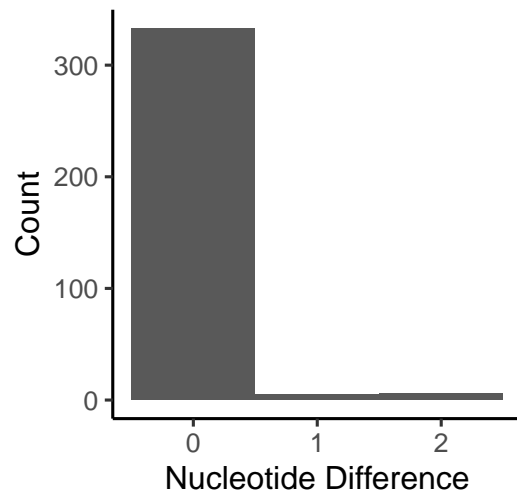
IGHV3-73*01_02

199 sequences assigned
189 (95%) exact matches, in which:
188 unique CDR3
6 unique J



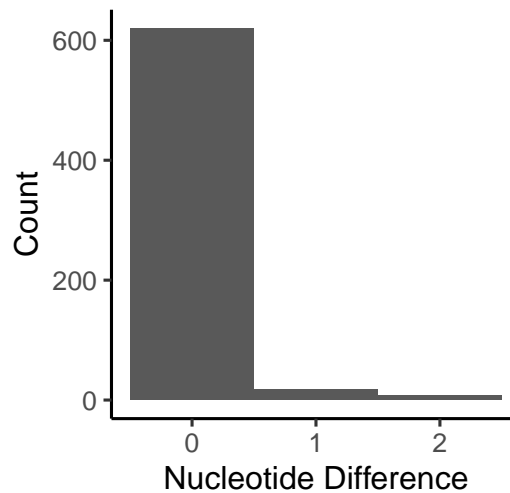
IGHV3-53*01_02

344 sequences assigned
333 (96.8%) exact matches, in which:
329 unique CDR3
6 unique J



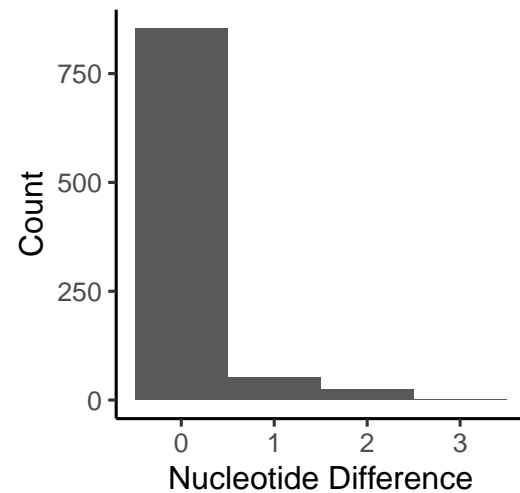
IGHV3-66*02

646 sequences assigned
620 (96%) exact matches, in which:
614 unique CDR3
6 unique J



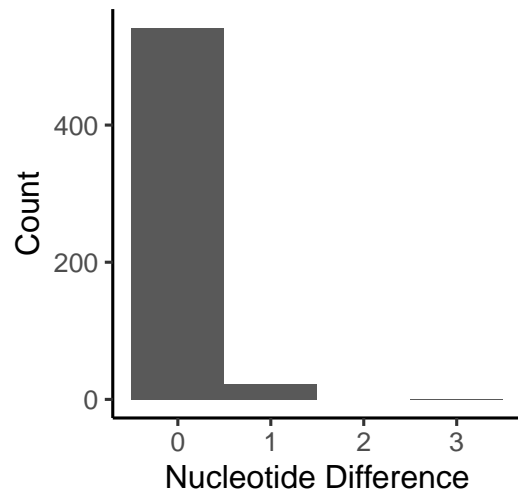
IGHV3-74*01_02

932 sequences assigned
854 (91.6%) exact matches, in which:
838 unique CDR3
7 unique J



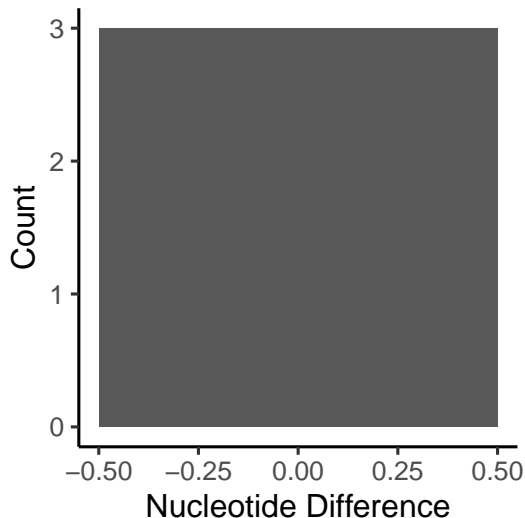
IGHV3–64D*09

565 sequences assigned
542 (95.9%) exact matches, in which:
540 unique CDR3
6 unique J



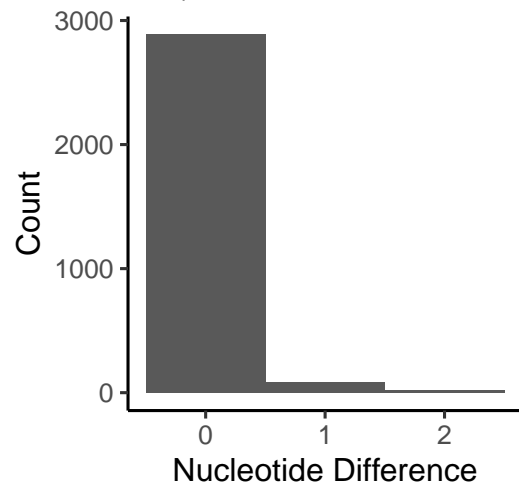
IGHV4–28*01_07

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



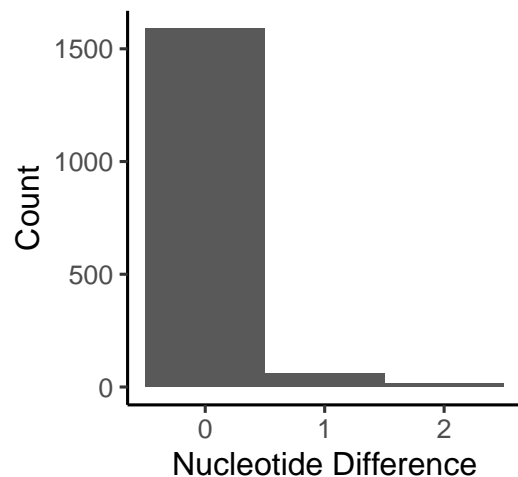
IGHV4–31*02

2990 sequences assigned
2888 (96.6%) exact matches, in which:
2877 unique CDR3
7 unique J



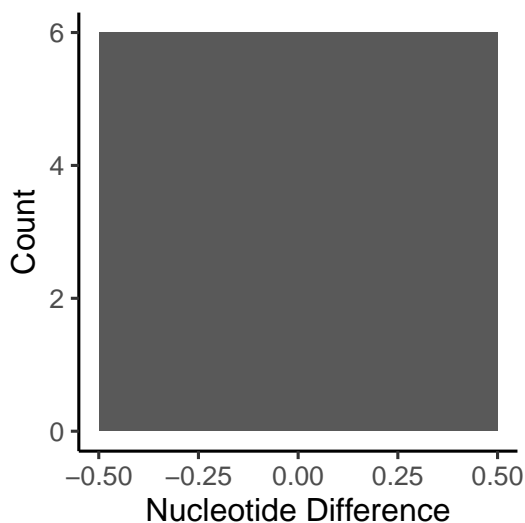
IGHV4–4*02_03

1662 sequences assigned
1589 (95.6%) exact matches, in which:
1577 unique CDR3
7 unique J



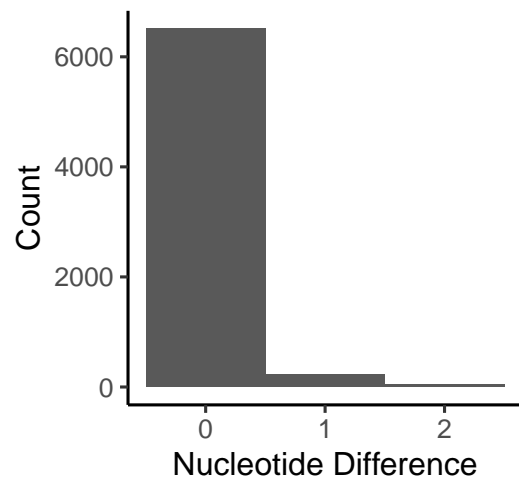
IGHV4–28*02_05

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



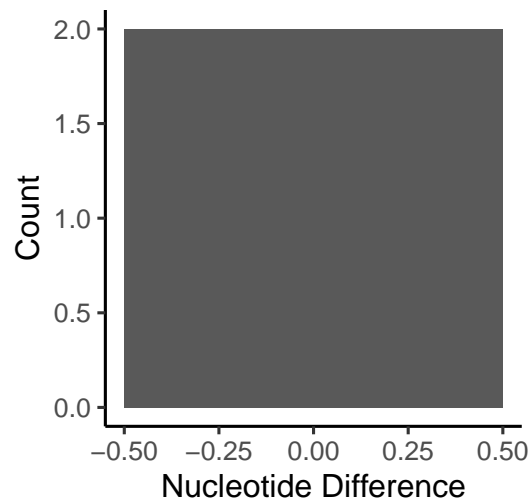
IGHV4–34*01_02

6779 sequences assigned
6510 (96%) exact matches, in which:
6427 unique CDR3
7 unique J



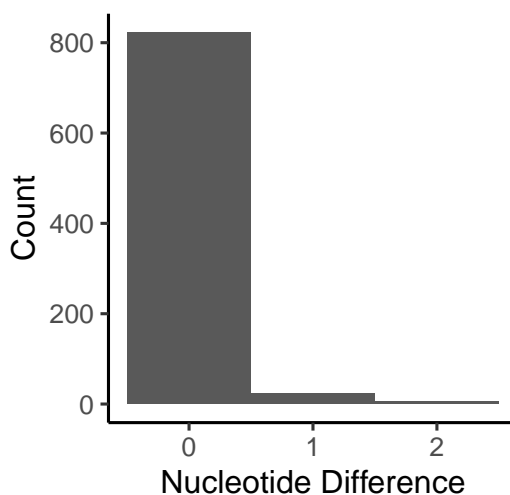
IGHV4–28*03

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



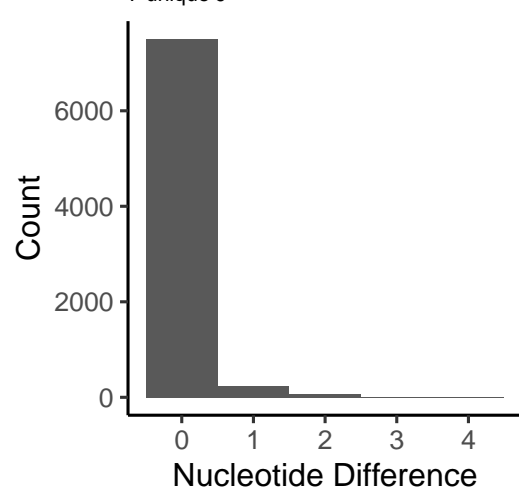
IGHV4–30–2*01

853 sequences assigned
823 (96.5%) exact matches, in which:
804 unique CDR3
6 unique J



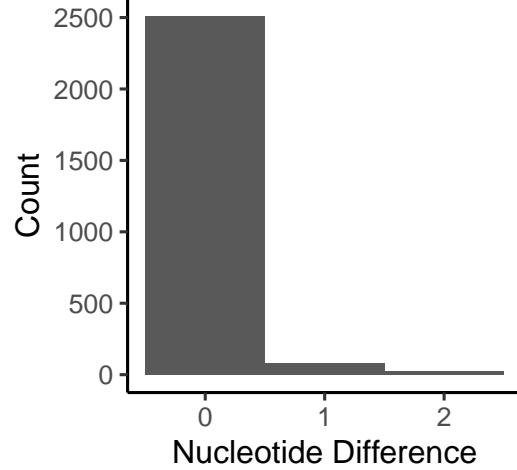
IGHV4–39*02_C258G

7811 sequences assigned
7502 (96%) exact matches, in which:
7420 unique CDR3
7 unique J



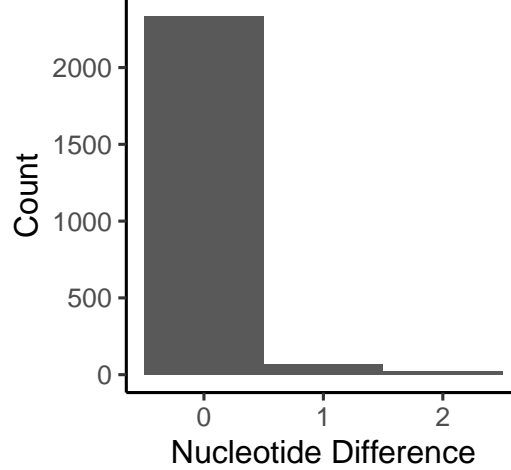
IGHV4-59*08

2612 sequences assigned
2508 (96%) exact matches, in which:
2487 unique CDR3
7 unique J



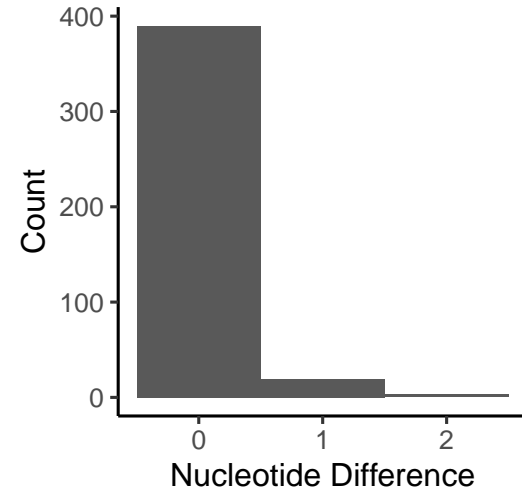
IGHV4-61*02

2427 sequences assigned
2333 (96.1%) exact matches, in which:
2323 unique CDR3
7 unique J



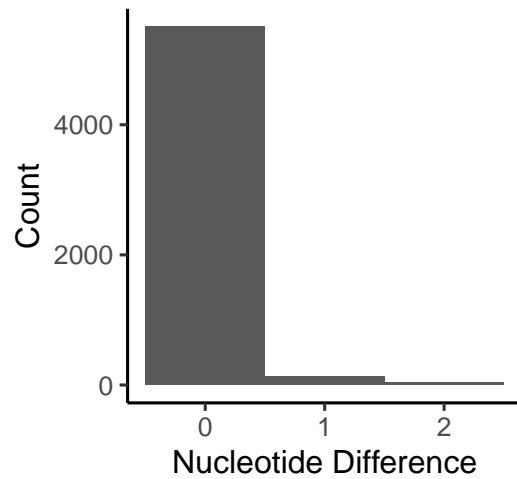
IGHV5-51*01_03

412 sequences assigned
390 (94.7%) exact matches, in which:
390 unique CDR3
7 unique J



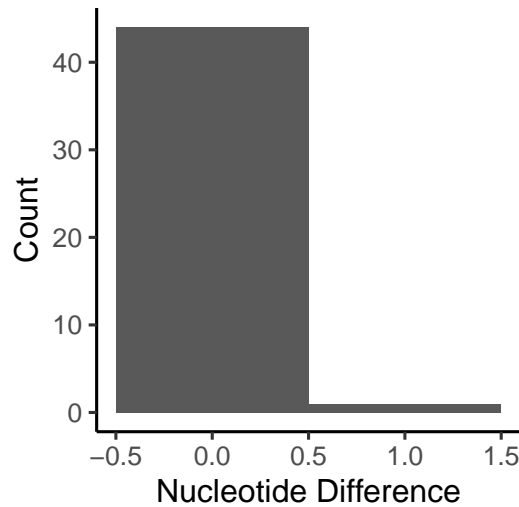
IGHV4-59*01_07

5683 sequences assigned
5507 (96.9%) exact matches, in which:
5449 unique CDR3
7 unique J



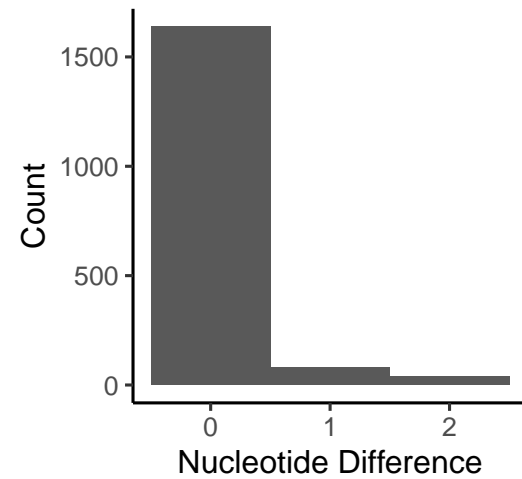
IGHV5-10-1*01_03

45 sequences assigned
44 (97.8%) exact matches, in which:
44 unique CDR3
4 unique J



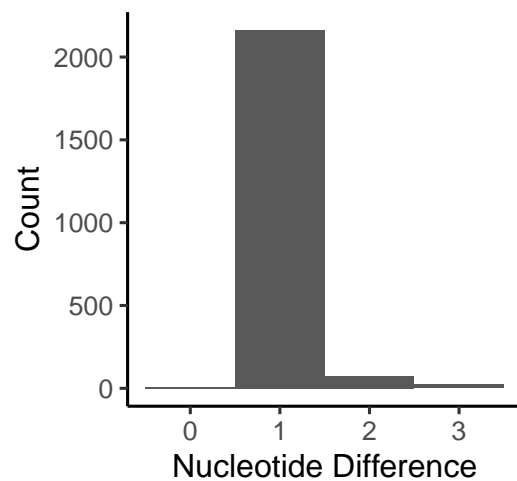
IGHV6-1*01_02

1757 sequences assigned
1638 (93.2%) exact matches, in which:
1634 unique CDR3
7 unique J



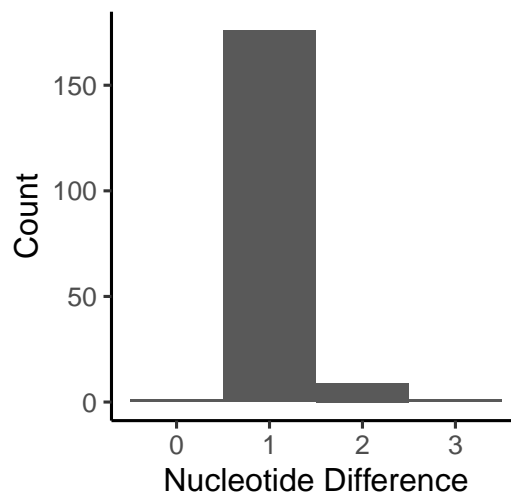
IGHV4-59*12

2265 sequences assigned
7 (0.3%) exact matches, in which:
7 unique CDR3
4 unique J



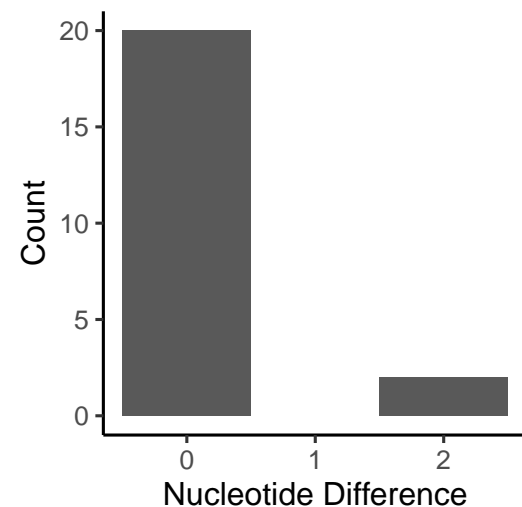
IGHV5-51*07

187 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J

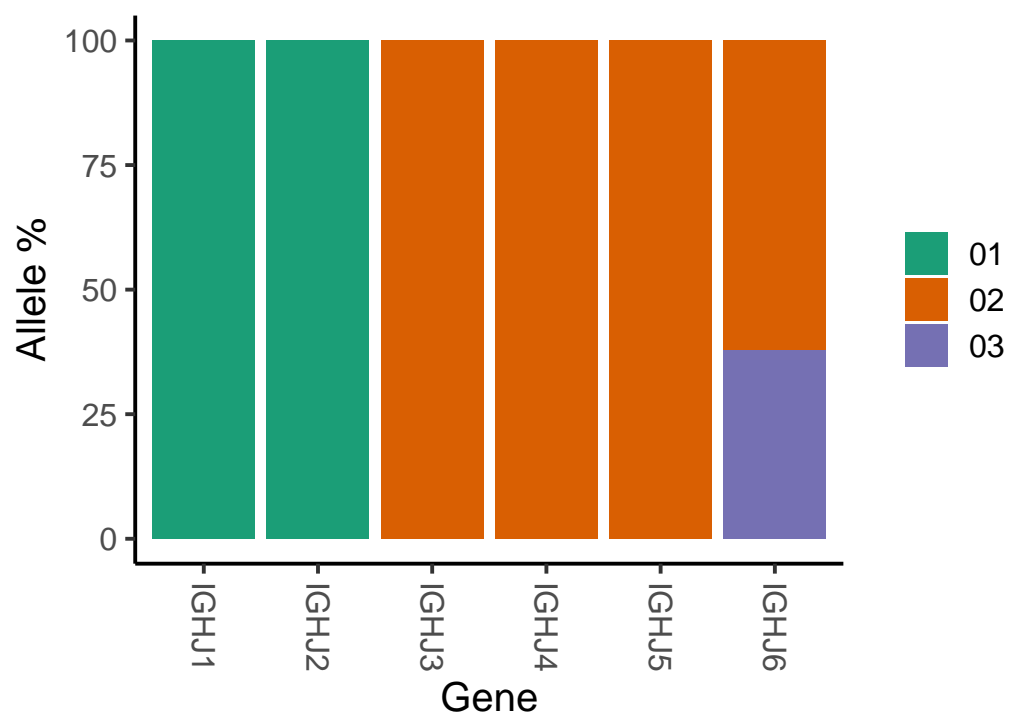


IGHV7-4-1*01

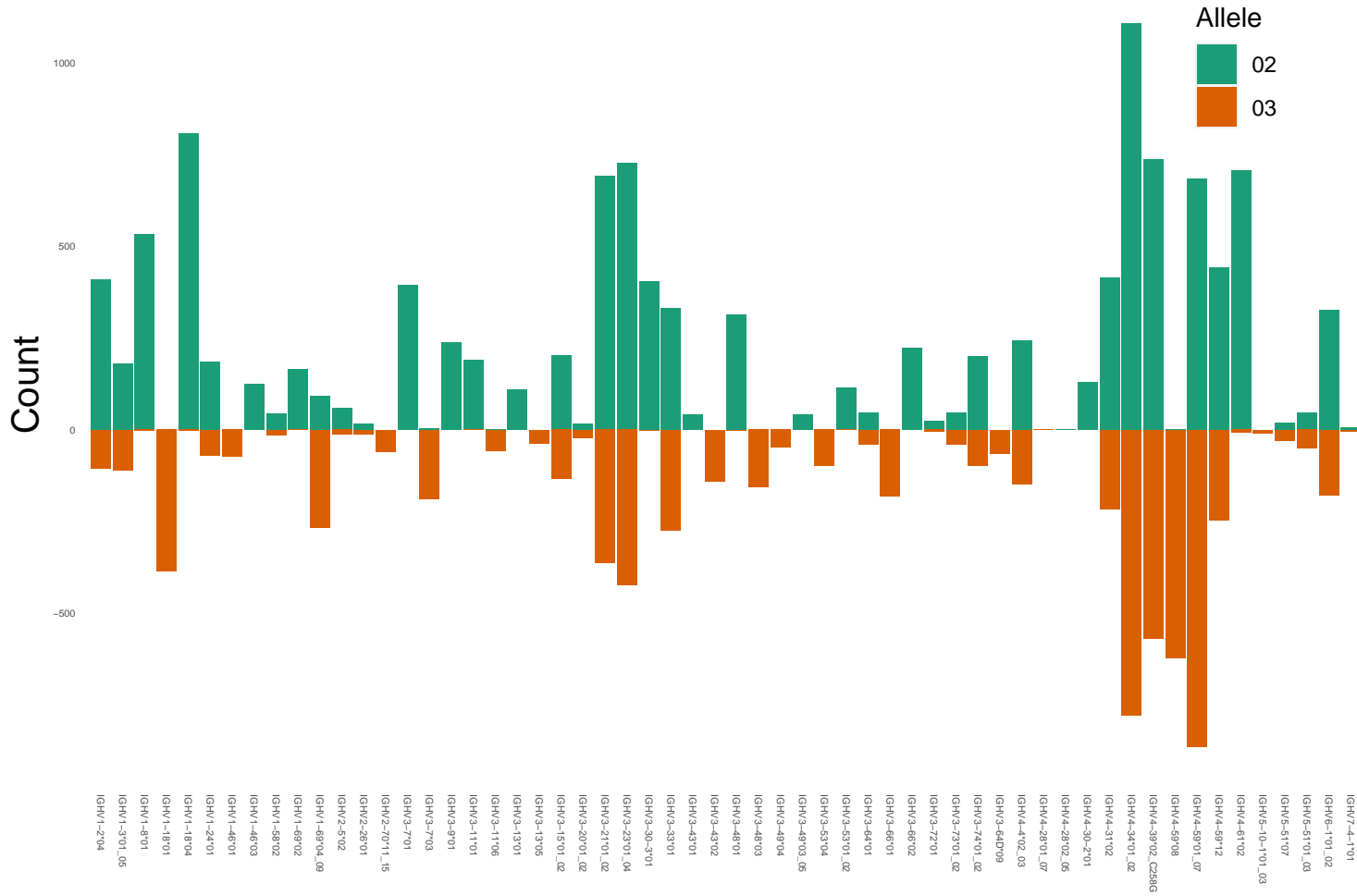
22 sequences assigned
20 (90.9%) exact matches, in which:
20 unique CDR3
5 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.