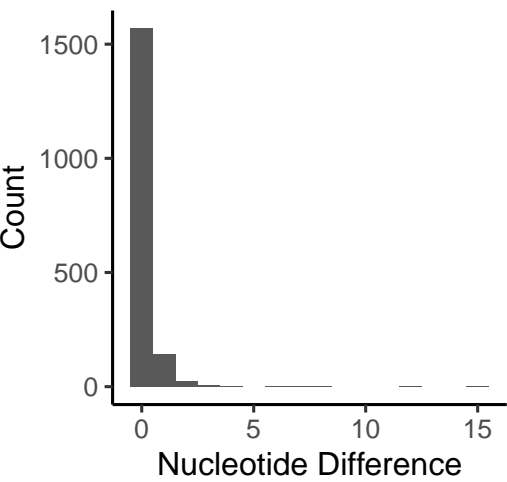


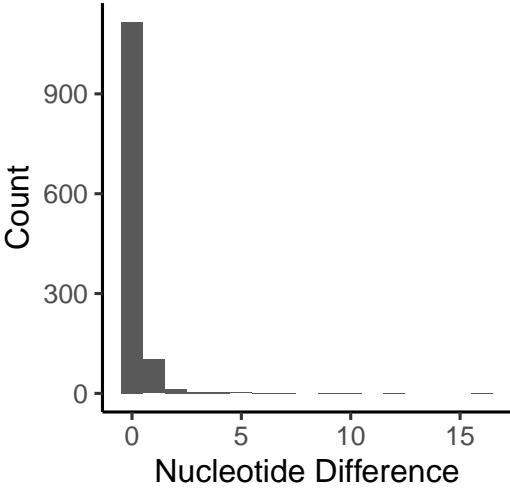
IGHV1-2*02

1745 sequences assigned
1569 (89.9%) exact matches, in which:
1488 unique CDR3
6 unique J



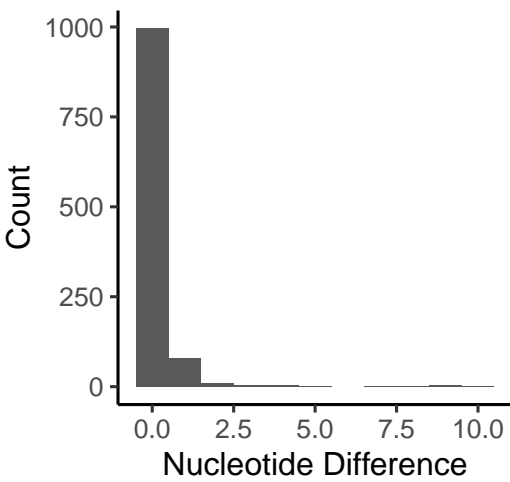
IGHV1-18*01

1255 sequences assigned
1117 (89%) exact matches, in which:
1076 unique CDR3
6 unique J



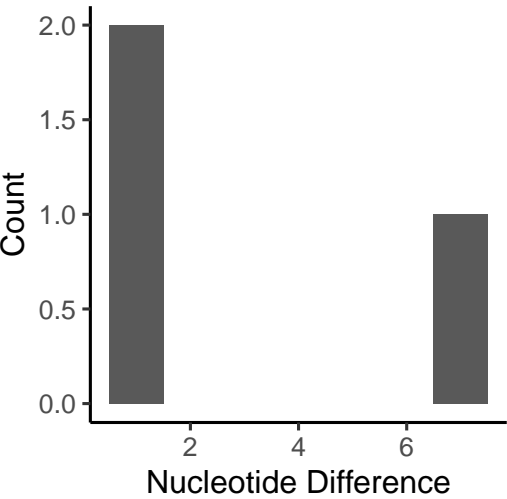
IGHV1-46*01

1101 sequences assigned
996 (90.5%) exact matches, in which:
946 unique CDR3
6 unique J



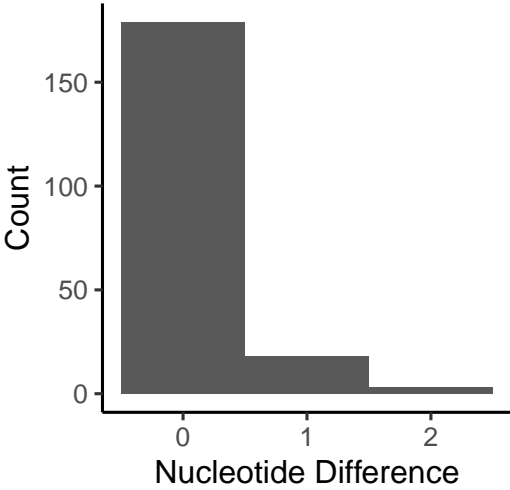
IGHV1-3*02

3 sequences assigned
No exact matches.



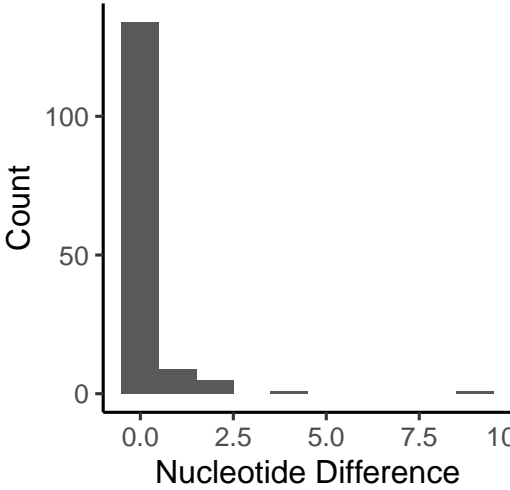
IGHV1-24*01

200 sequences assigned
179 (89.5%) exact matches, in which:
174 unique CDR3
5 unique J



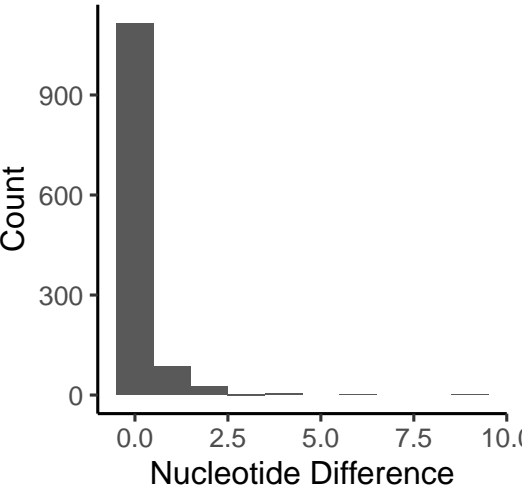
IGHV1-58*01

150 sequences assigned
134 (89.3%) exact matches, in which:
132 unique CDR3
5 unique J



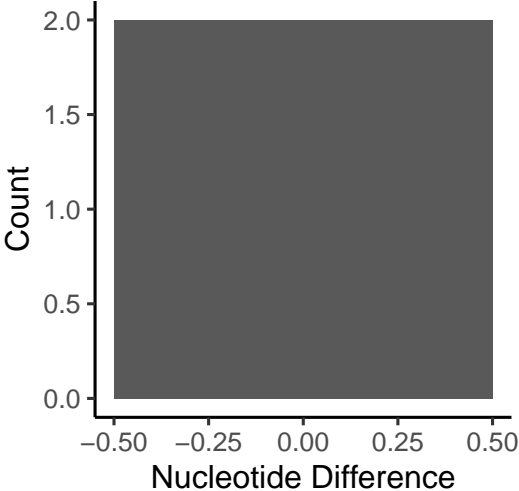
IGHV1-8*01

1237 sequences assigned
1115 (90.1%) exact matches, in which:
1075 unique CDR3
6 unique J



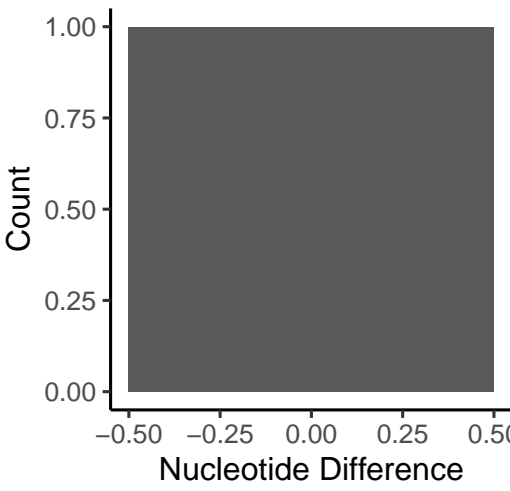
IGHV1-45*02

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



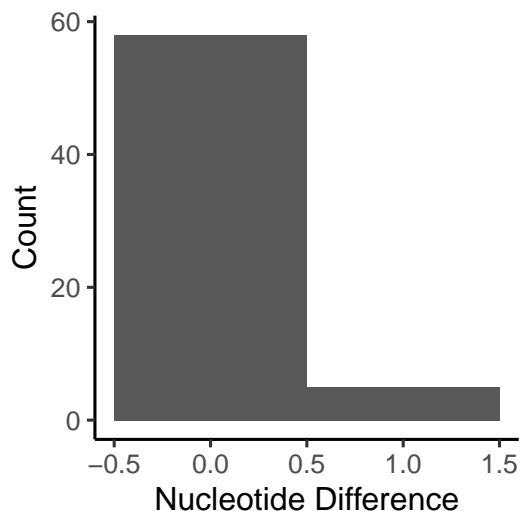
IGHV1-68*02

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



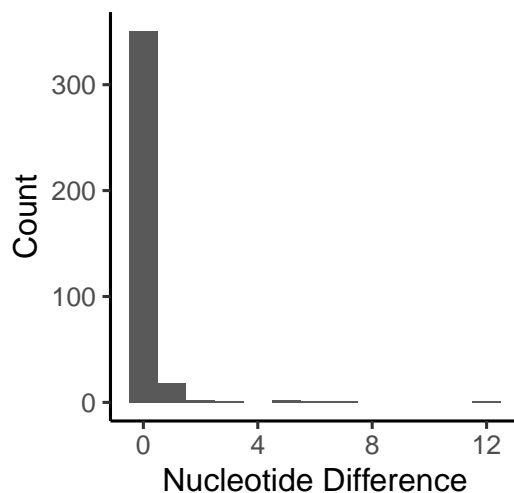
IGHV1-69-2*01

63 sequences assigned
58 (92.1%) exact matches, in which:
56 unique CDR3
5 unique J



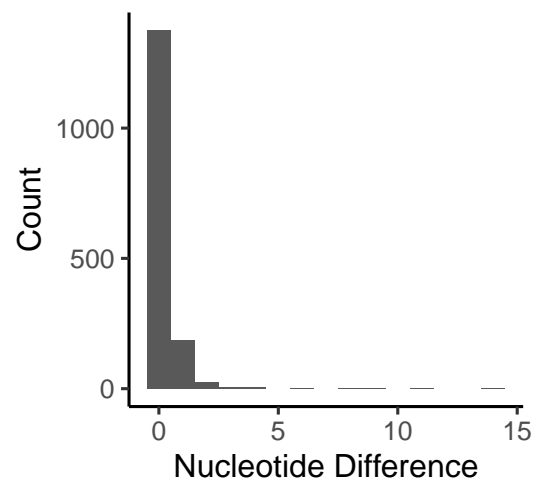
IGHV2-26*01

377 sequences assigned
351 (93.1%) exact matches, in which:
335 unique CDR3
5 unique J



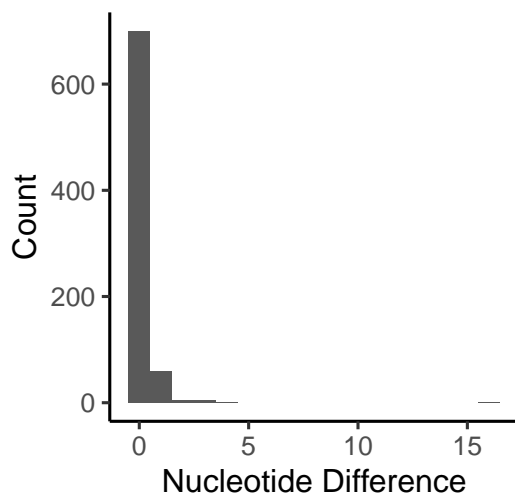
IGHV3-9*01

1607 sequences assigned
1375 (85.6%) exact matches, in which:
1290 unique CDR3
6 unique J



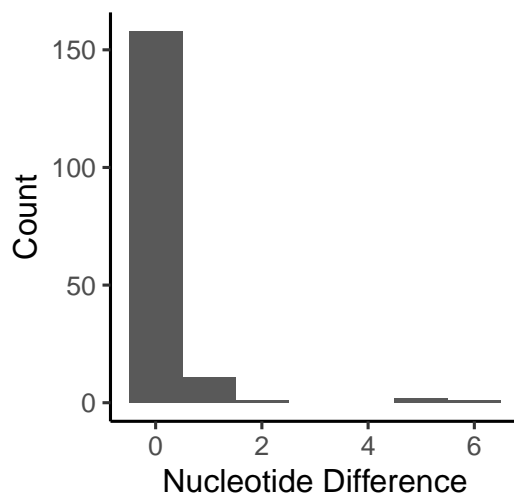
IGHV1-69*17

770 sequences assigned
700 (90.9%) exact matches, in which:
667 unique CDR3
6 unique J



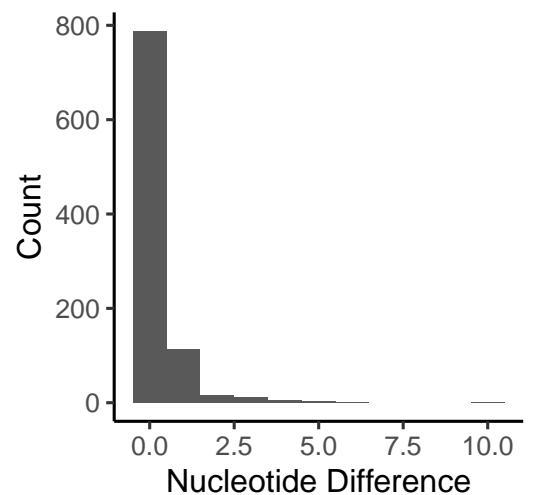
IGHV2-70*01

173 sequences assigned
158 (91.3%) exact matches, in which:
156 unique CDR3
5 unique J



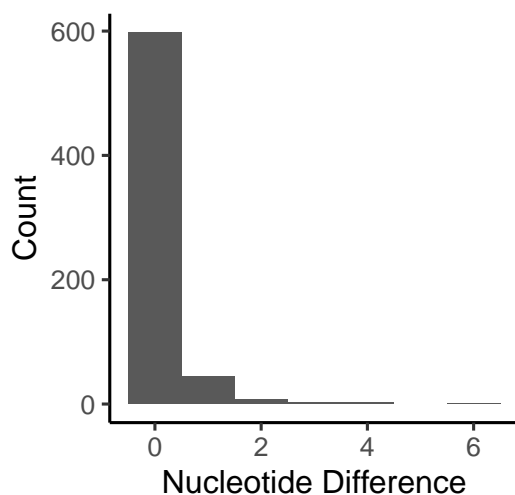
IGHV3-11*01

941 sequences assigned
788 (83.7%) exact matches, in which:
761 unique CDR3
6 unique J



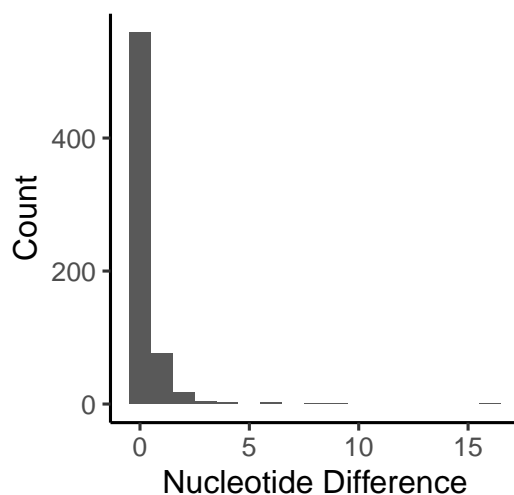
IGHV2-5*01

655 sequences assigned
598 (91.3%) exact matches, in which:
574 unique CDR3
6 unique J



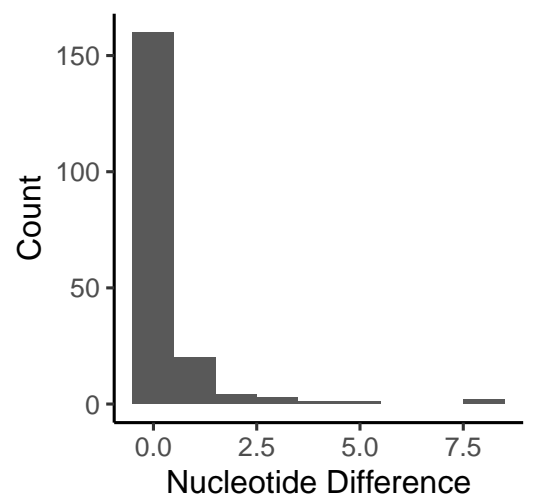
IGHV3-7*01

663 sequences assigned
559 (84.3%) exact matches, in which:
539 unique CDR3
6 unique J



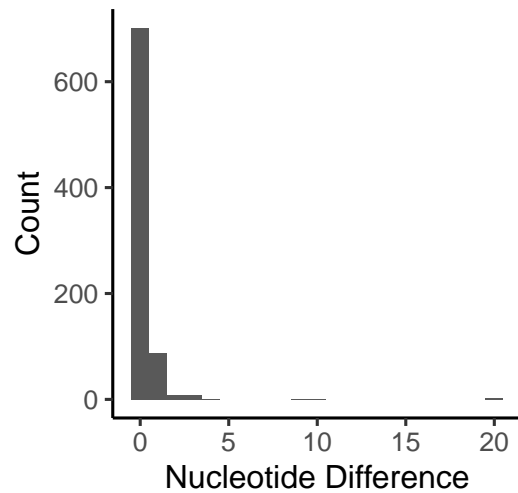
IGHV3-13*01

191 sequences assigned
160 (83.8%) exact matches, in which:
154 unique CDR3
5 unique J



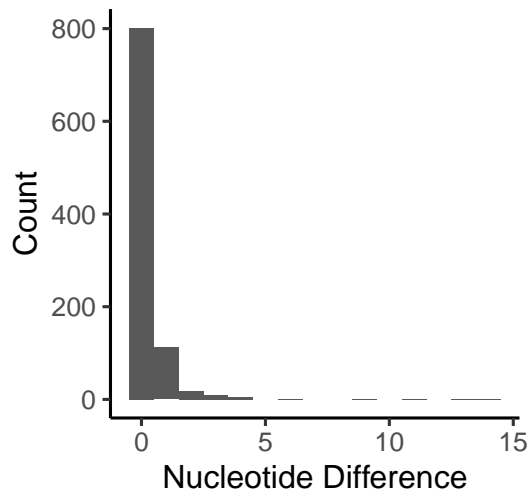
IGHV3–15*01

814 sequences assigned
702 (86.2%) exact matches, in which:
673 unique CDR3
6 unique J



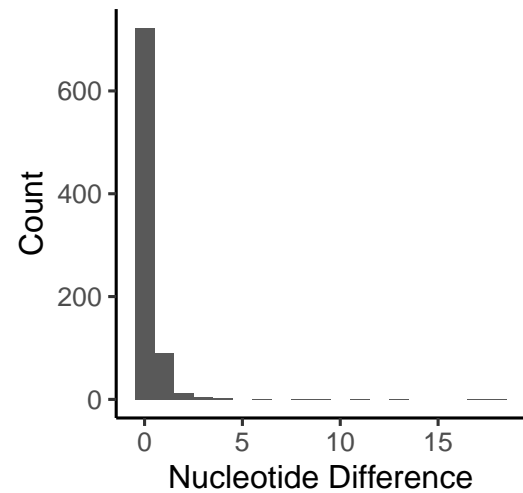
IGHV3–30–3*01

951 sequences assigned
802 (84.3%) exact matches, in which:
757 unique CDR3
6 unique J



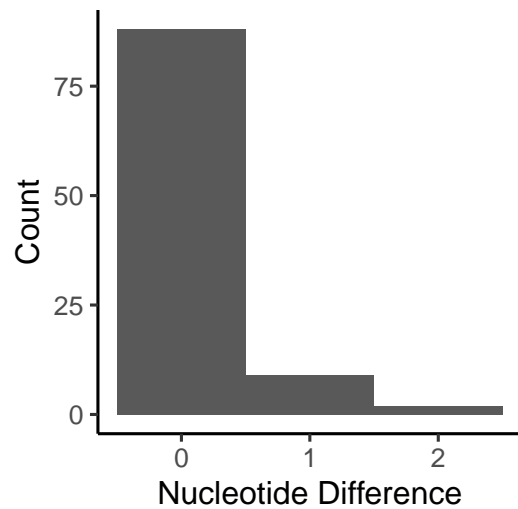
IGHV3–48*02

839 sequences assigned
723 (86.2%) exact matches, in which:
690 unique CDR3
6 unique J



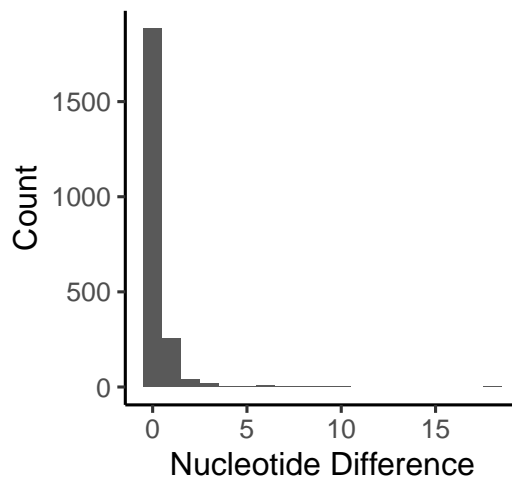
IGHV3–20*01

99 sequences assigned
88 (88.9%) exact matches, in which:
80 unique CDR3
5 unique J



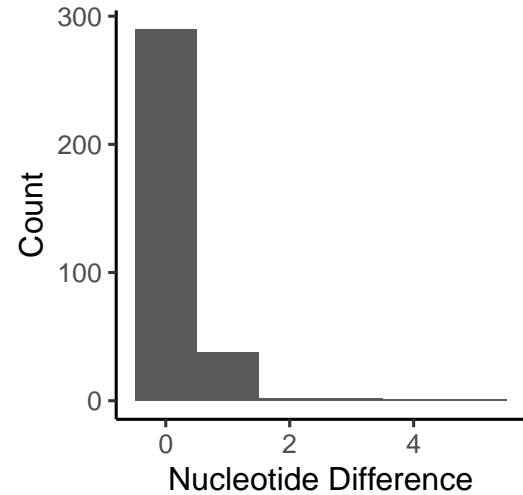
IGHV3–33*01

2219 sequences assigned
1883 (84.9%) exact matches, in which:
1797 unique CDR3
6 unique J



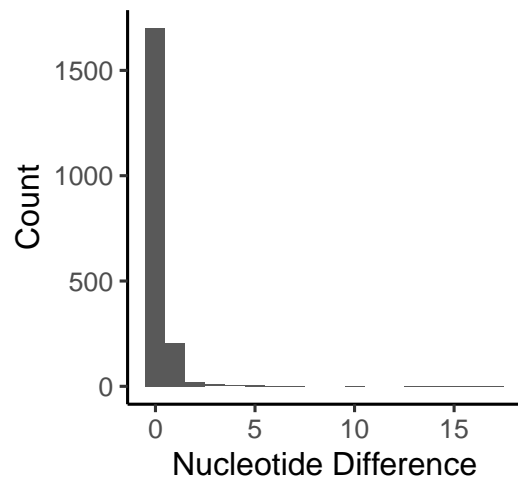
IGHV3–49*05

334 sequences assigned
290 (86.8%) exact matches, in which:
269 unique CDR3
6 unique J



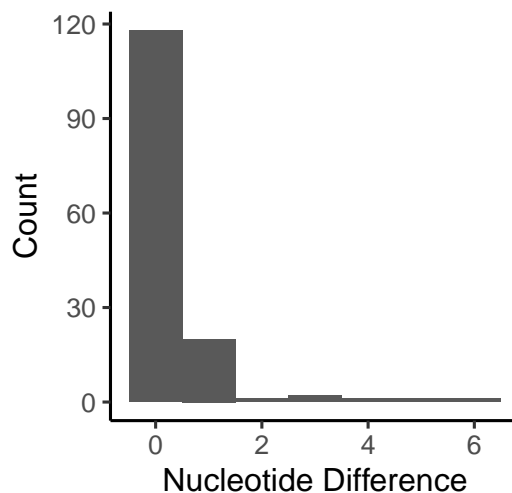
IGHV3–21*01

1954 sequences assigned
1701 (87.1%) exact matches, in which:
1603 unique CDR3
6 unique J



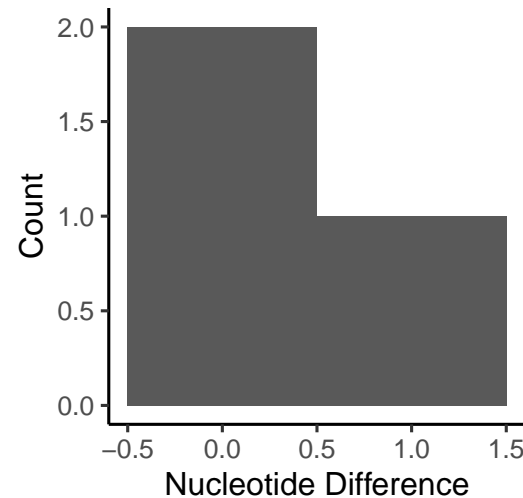
IGHV3–43*01

144 sequences assigned
118 (81.9%) exact matches, in which:
113 unique CDR3
5 unique J



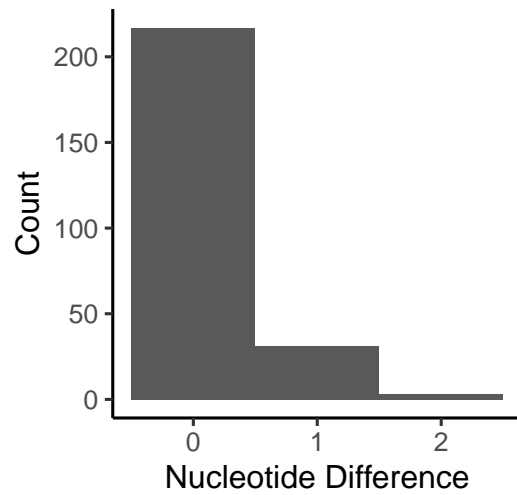
IGHV3–52*01

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



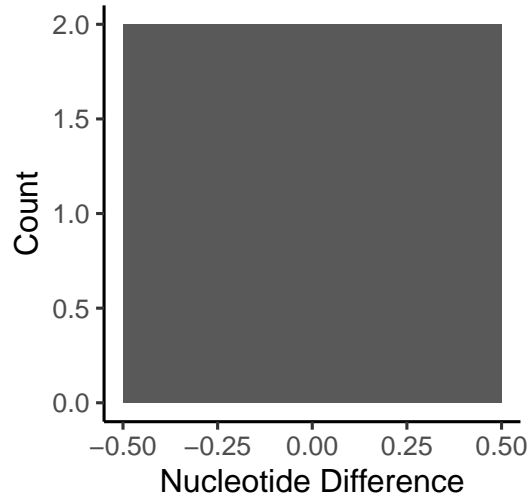
IGHV3-53*01

251 sequences assigned
217 (86.5%) exact matches, in which:
208 unique CDR3
5 unique J



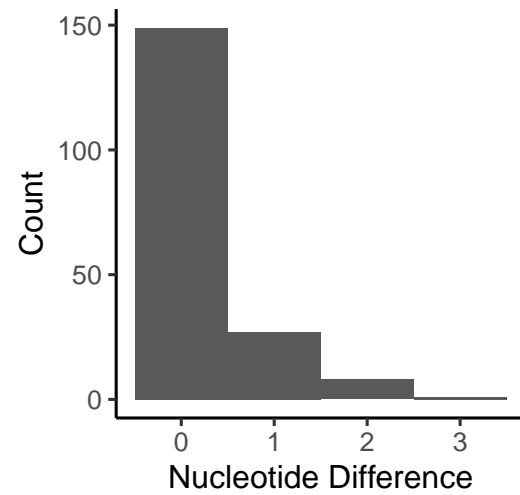
IGHV3-66*03

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



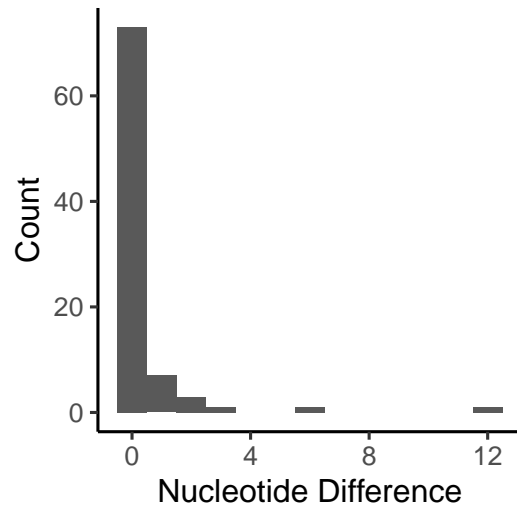
IGHV3-73*02

185 sequences assigned
149 (80.5%) exact matches, in which:
141 unique CDR3
5 unique J



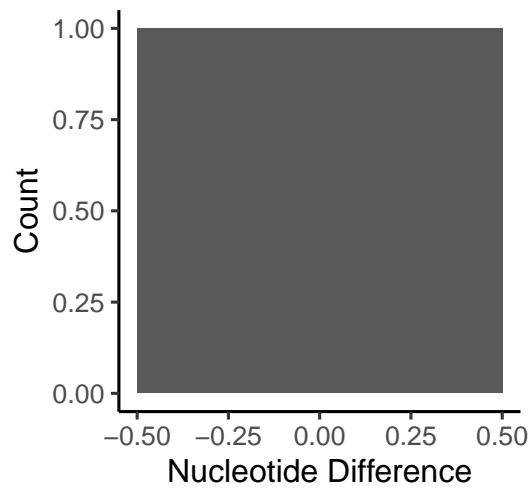
IGHV3-53*02

86 sequences assigned
73 (84.9%) exact matches, in which:
72 unique CDR3
5 unique J



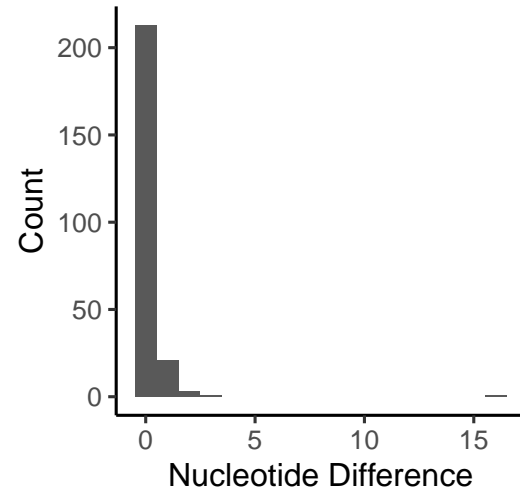
IGHV3-69-1*01

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



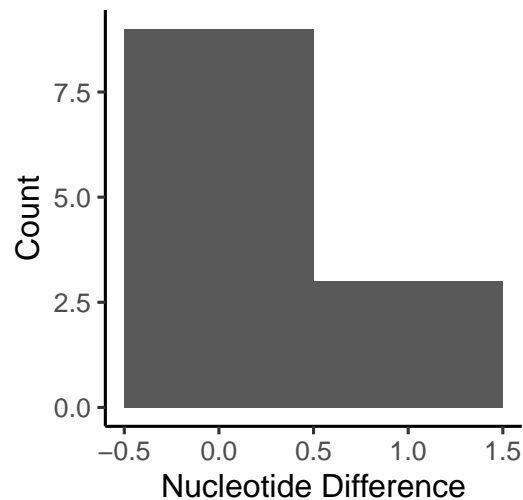
IGHV3-74*01

239 sequences assigned
213 (89.1%) exact matches, in which:
204 unique CDR3
6 unique J



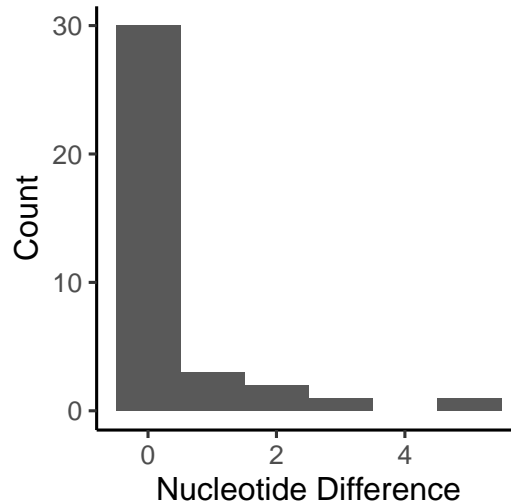
IGHV3-64*02

12 sequences assigned
9 (75%) exact matches, in which:
8 unique CDR3
3 unique J



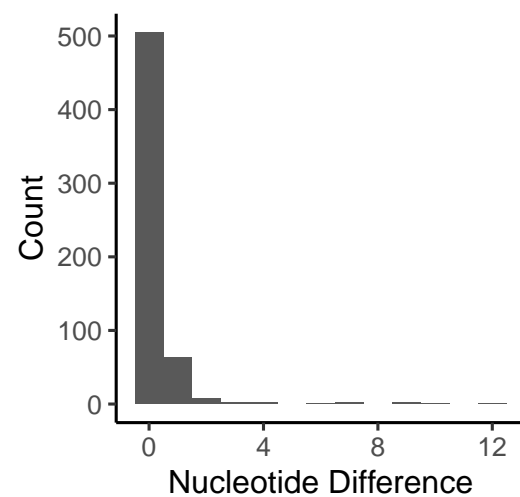
IGHV3-72*01

37 sequences assigned
30 (81.1%) exact matches, in which:
29 unique CDR3
4 unique J



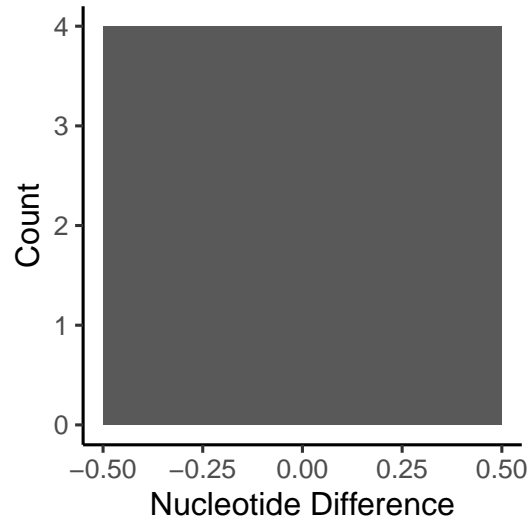
IGHV4-4*07

587 sequences assigned
505 (86%) exact matches, in which:
490 unique CDR3
6 unique J



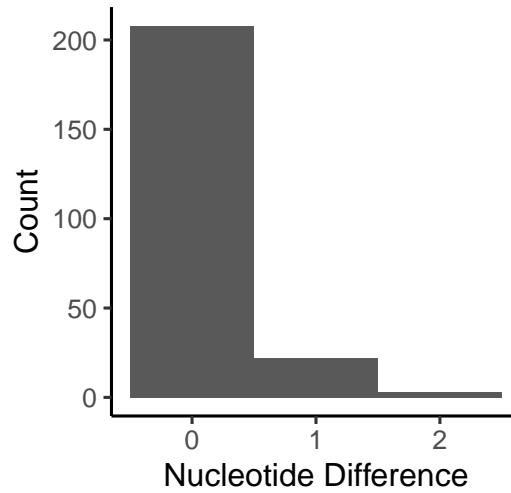
IGHV4-28*01

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



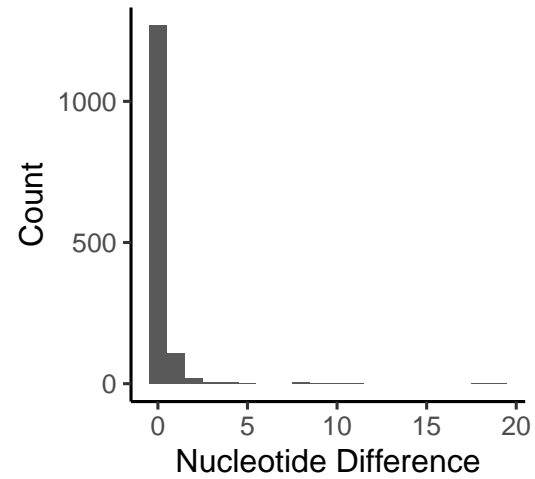
IGHV4-30-2*01

233 sequences assigned
208 (89.3%) exact matches, in which:
202 unique CDR3
6 unique J



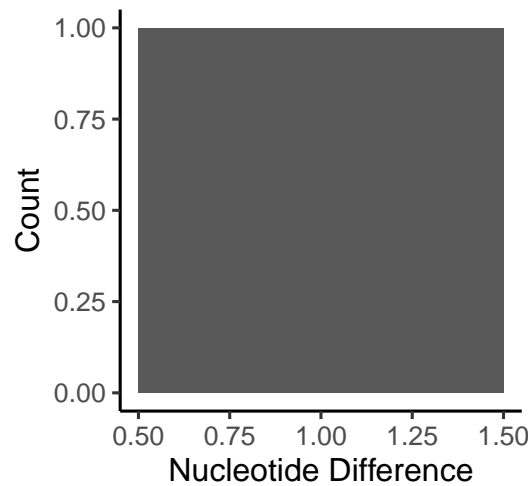
IGHV4-39*01

1423 sequences assigned
1269 (89.2%) exact matches, in which:
1192 unique CDR3
6 unique J



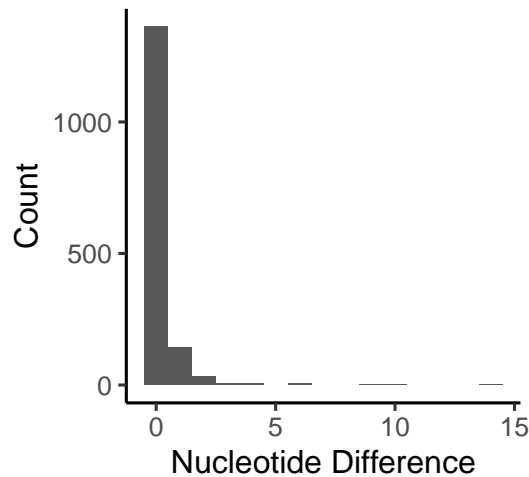
IGHV4-28*04

1 sequences assigned
No exact matches.



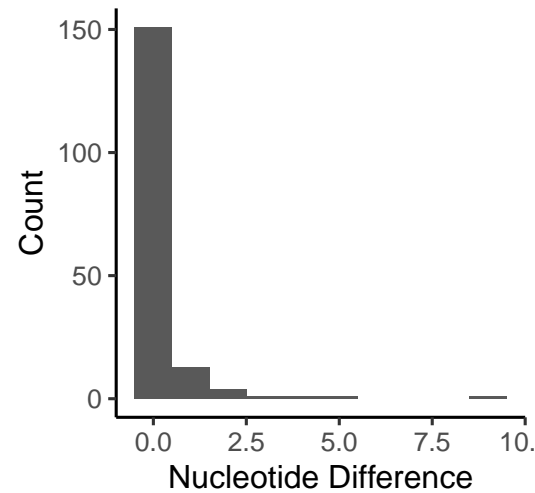
IGHV4-31*03

1560 sequences assigned
1362 (87.3%) exact matches, in which:
1321 unique CDR3
6 unique J



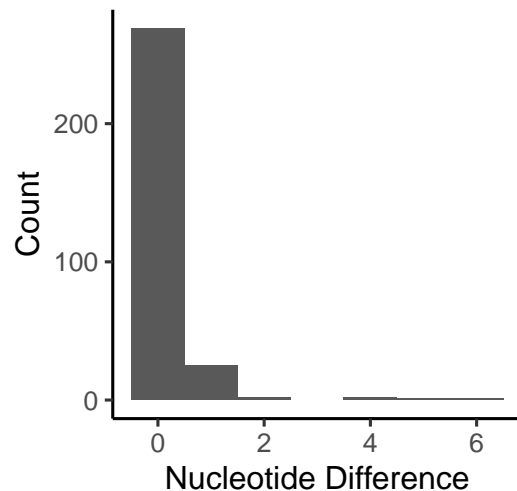
IGHV4-39*02_C258G

172 sequences assigned
151 (87.8%) exact matches, in which:
142 unique CDR3
5 unique J



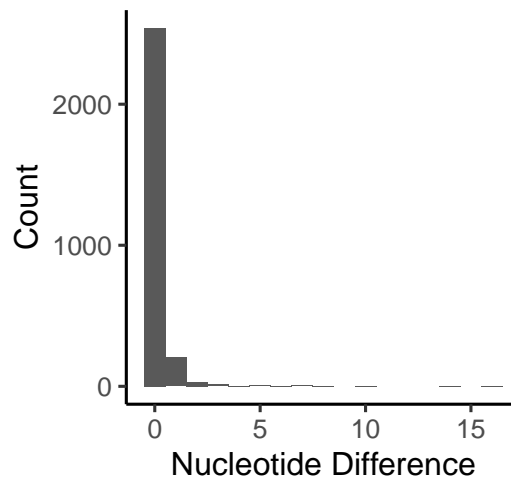
IGHV4-30-4*01

300 sequences assigned
269 (89.7%) exact matches, in which:
256 unique CDR3
5 unique J



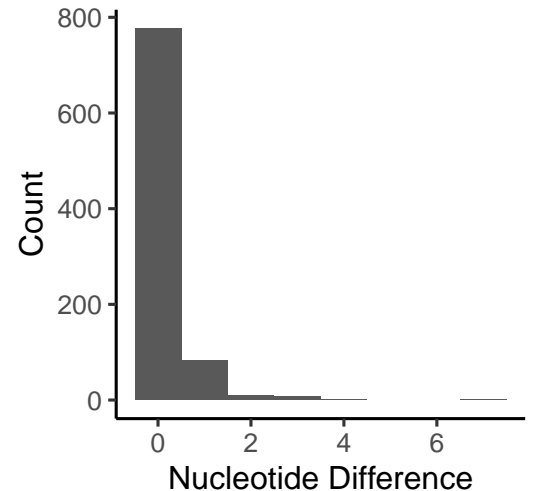
IGHV4-34*01

2813 sequences assigned
2540 (90.3%) exact matches, in which:
2393 unique CDR3
6 unique J



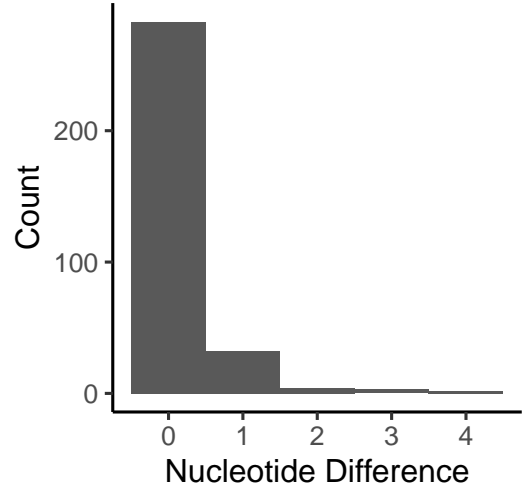
IGHV4-59*01

878 sequences assigned
777 (88.5%) exact matches, in which:
757 unique CDR3
6 unique J



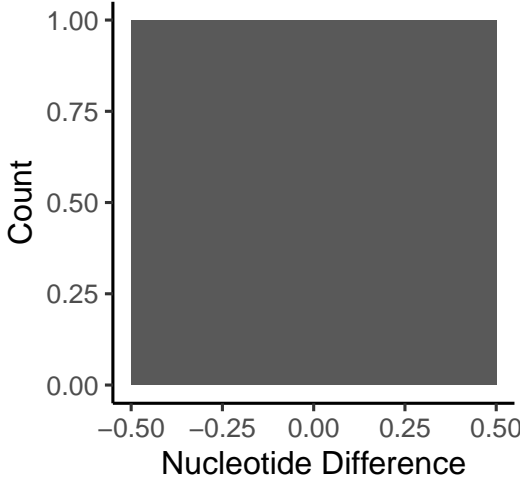
IGHV4–61*01

324 sequences assigned
283 (87.3%) exact matches, in which:
272 unique CDR3
6 unique J



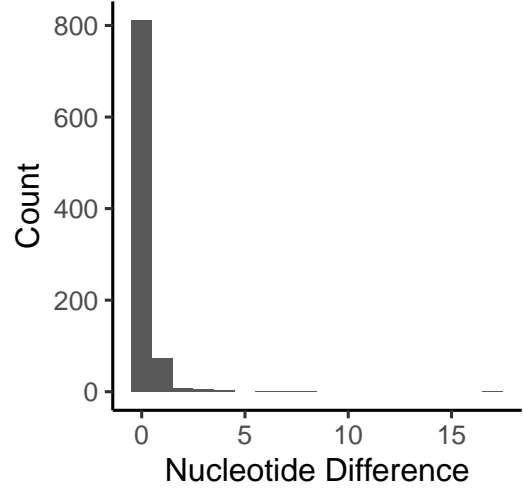
IGHV7–81*01

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



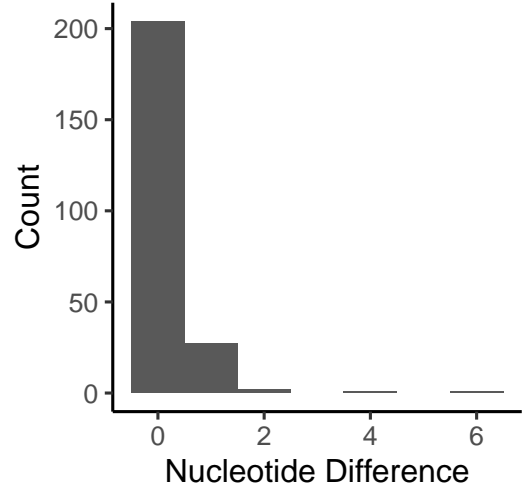
IGHV5–51*01

910 sequences assigned
812 (89.2%) exact matches, in which:
784 unique CDR3
6 unique J



IGHV6–1*01

235 sequences assigned
204 (86.8%) exact matches, in which:
197 unique CDR3
6 unique J





Warning – no inferred sequences found.