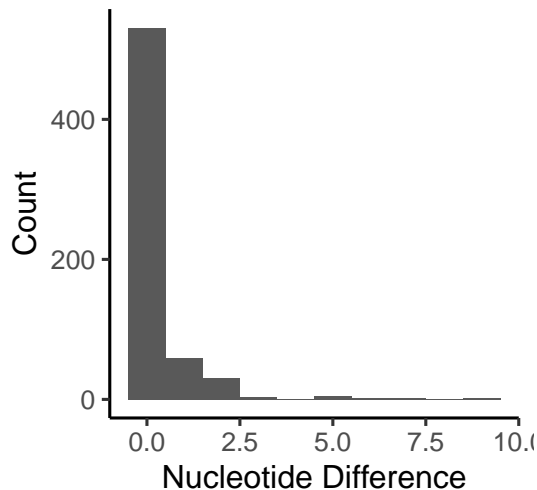


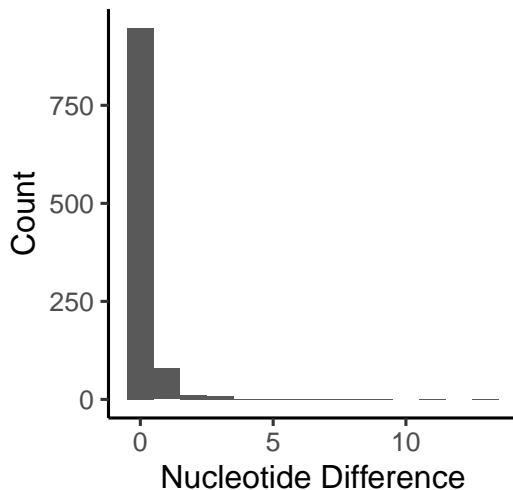
IGHV1-2*02

637 sequences assigned
531 (83.4%) exact matches, in which:
496 unique CDR3
7 unique J



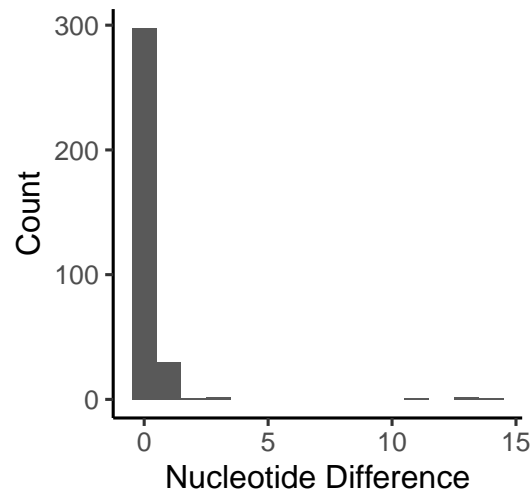
IGHV1-18*01

1060 sequences assigned
948 (89.4%) exact matches, in which:
912 unique CDR3
7 unique J



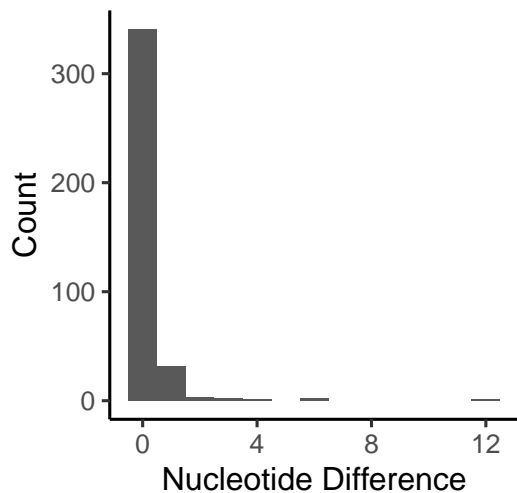
IGHV1-46*03

335 sequences assigned
298 (89%) exact matches, in which:
285 unique CDR3
7 unique J



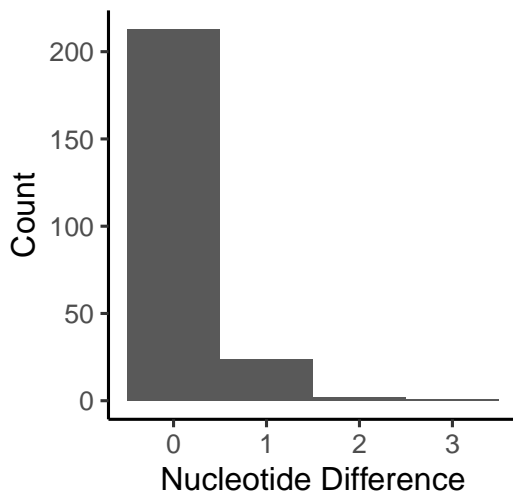
IGHV1-3*01

382 sequences assigned
341 (89.3%) exact matches, in which:
327 unique CDR3
6 unique J



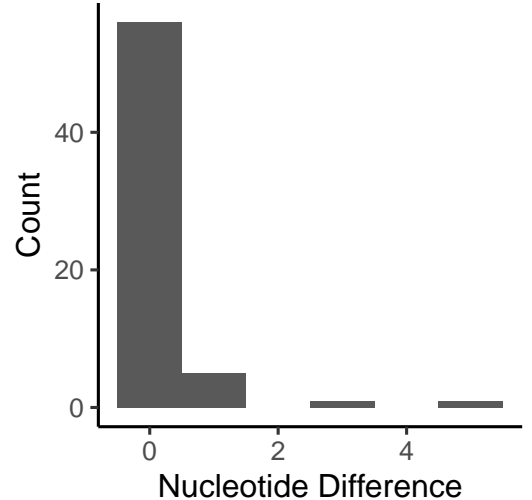
IGHV1-24*01

240 sequences assigned
213 (88.8%) exact matches, in which:
197 unique CDR3
7 unique J



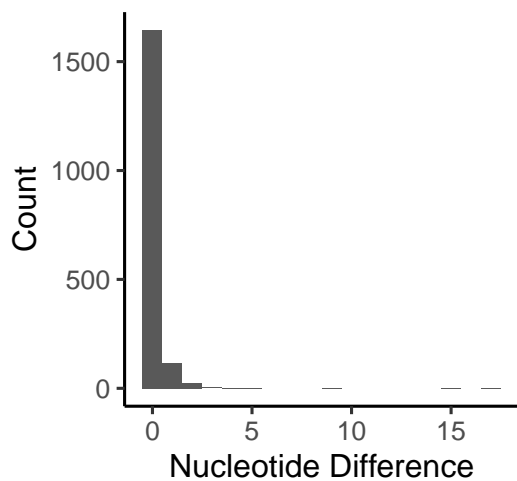
IGHV1-58*01

63 sequences assigned
56 (88.9%) exact matches, in which:
56 unique CDR3
5 unique J



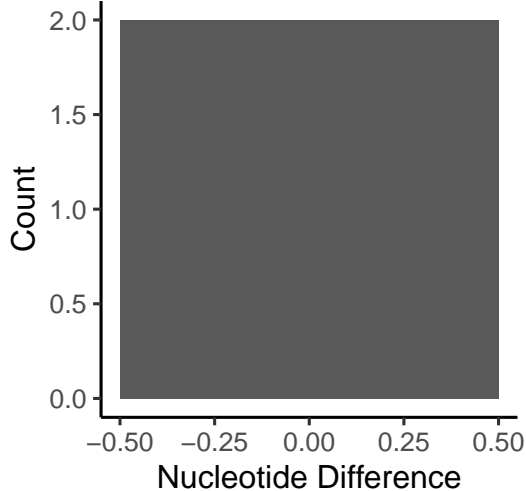
IGHV1-8*01

1796 sequences assigned
1645 (91.6%) exact matches, in which:
1541 unique CDR3
7 unique J



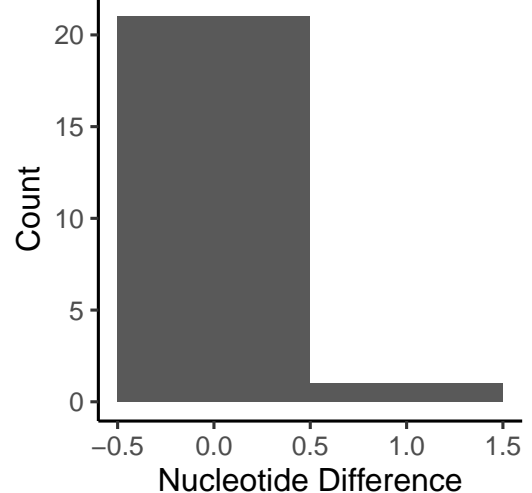
IGHV1-45*02

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



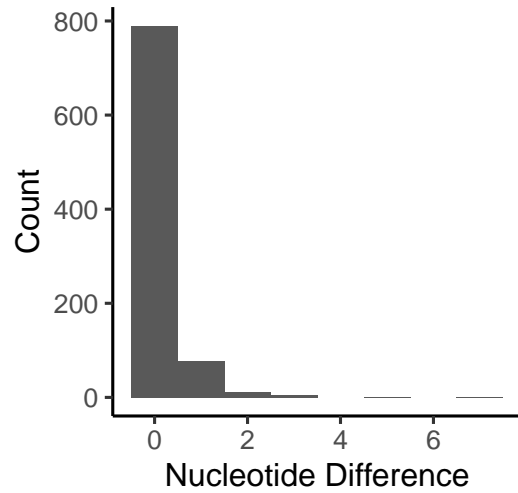
IGHV1-58*02

22 sequences assigned
21 (95.5%) exact matches, in which:
20 unique CDR3
5 unique J



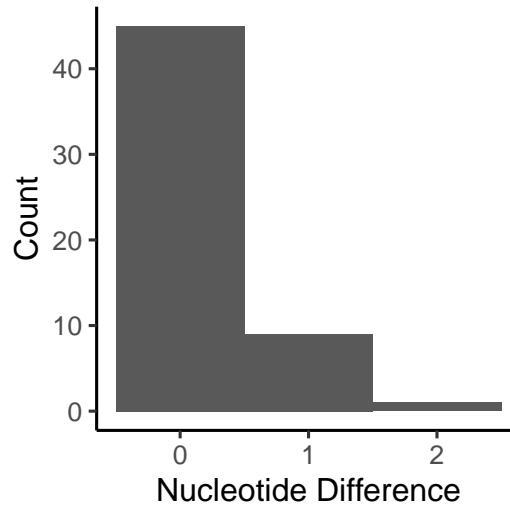
IGHV1–69*04

887 sequences assigned
790 (89.1%) exact matches, in which:
732 unique CDR3
7 unique J



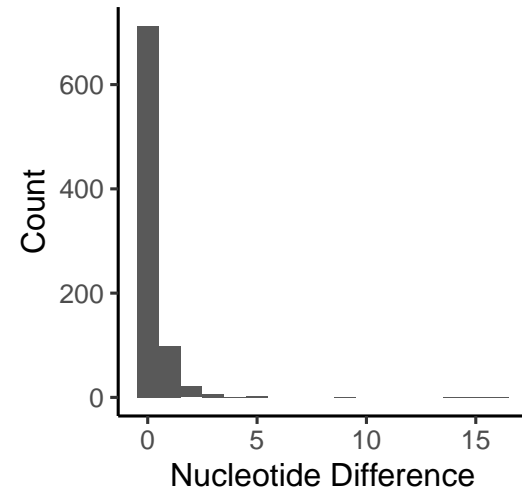
IGHV2–70*01

55 sequences assigned
45 (81.8%) exact matches, in which:
42 unique CDR3
5 unique J



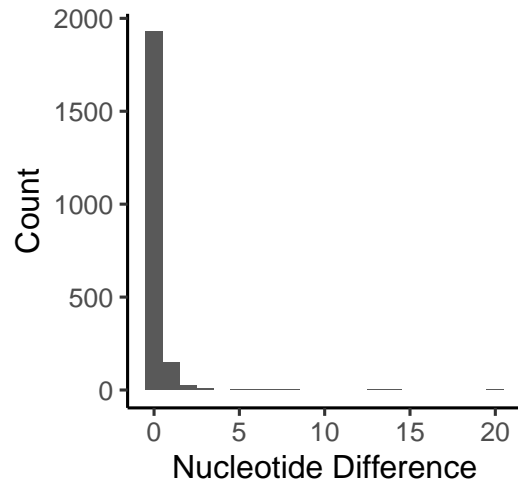
IGHV3–9*01

845 sequences assigned
713 (84.4%) exact matches, in which:
663 unique CDR3
7 unique J



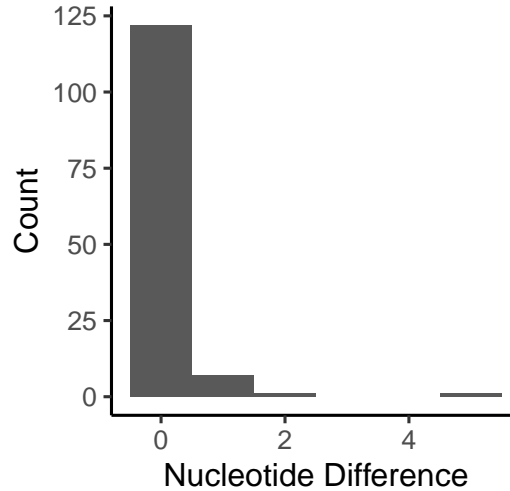
IGHV2–5*01

2129 sequences assigned
1928 (90.6%) exact matches, in which:
1812 unique CDR3
7 unique J



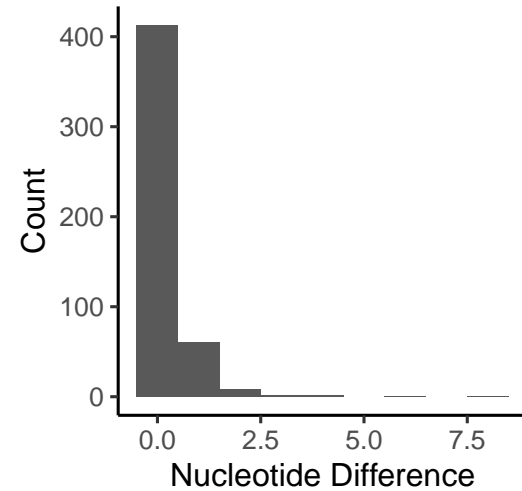
IGHV2–70*15

131 sequences assigned
122 (93.1%) exact matches, in which:
120 unique CDR3
5 unique J



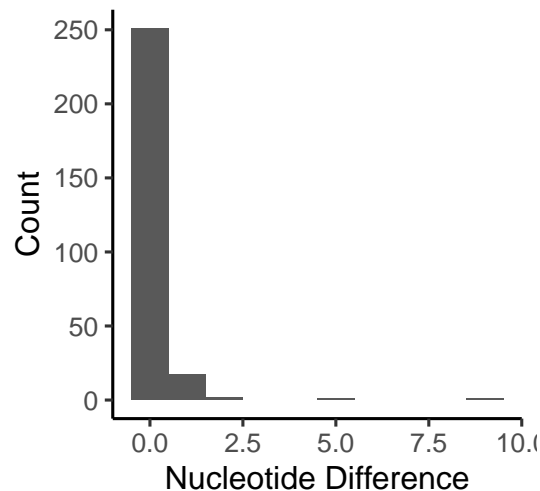
IGHV3–9*01_T307C

488 sequences assigned
413 (84.6%) exact matches, in which:
377 unique CDR3
6 unique J



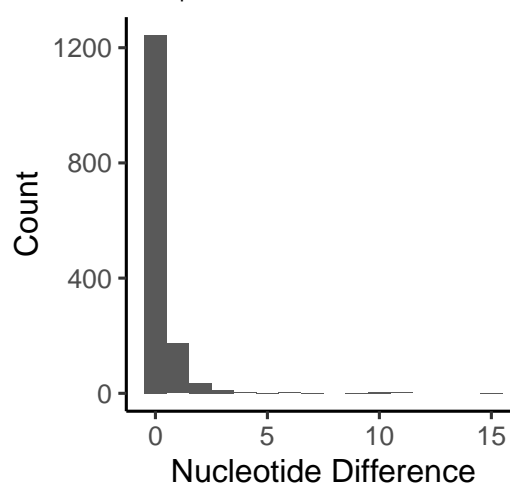
IGHV2–26*01

272 sequences assigned
251 (92.3%) exact matches, in which:
243 unique CDR3
7 unique J



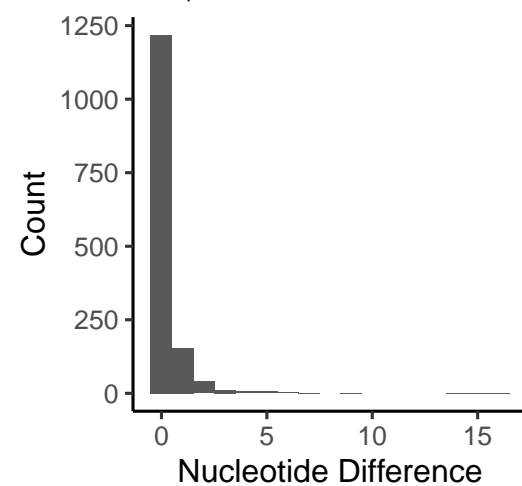
IGHV3–7*01

1483 sequences assigned
1244 (83.9%) exact matches, in which:
1186 unique CDR3
7 unique J



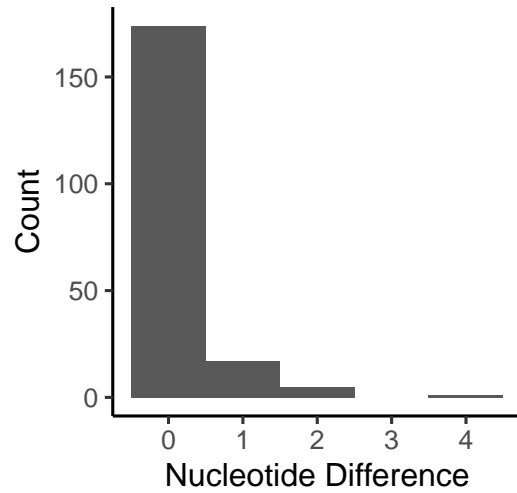
IGHV3–11*01

1444 sequences assigned
1218 (84.3%) exact matches, in which:
1159 unique CDR3
7 unique J



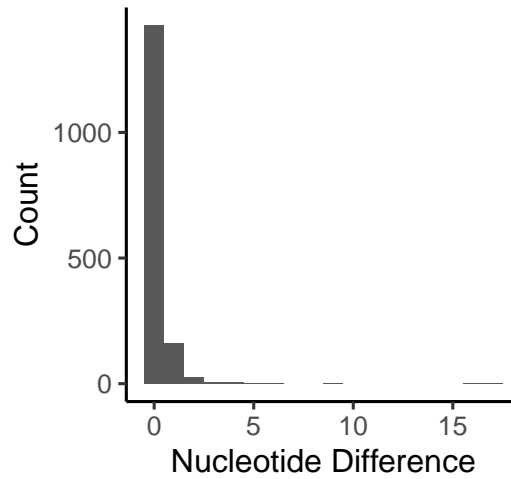
IGHV3-13*01

197 sequences assigned
174 (88.3%) exact matches, in which:
164 unique CDR3
6 unique J



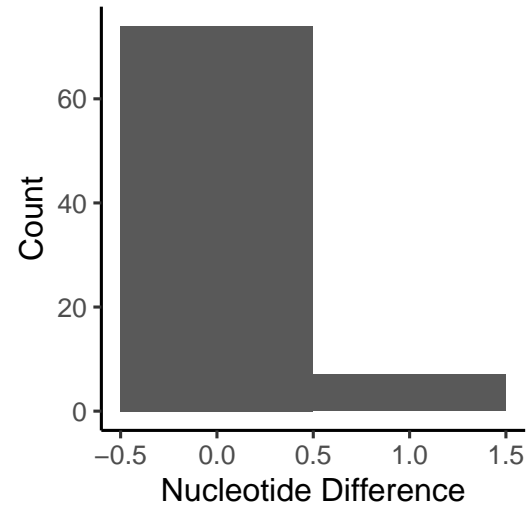
IGHV3-21*01

1637 sequences assigned
1426 (87.1%) exact matches, in which:
1340 unique CDR3
7 unique J



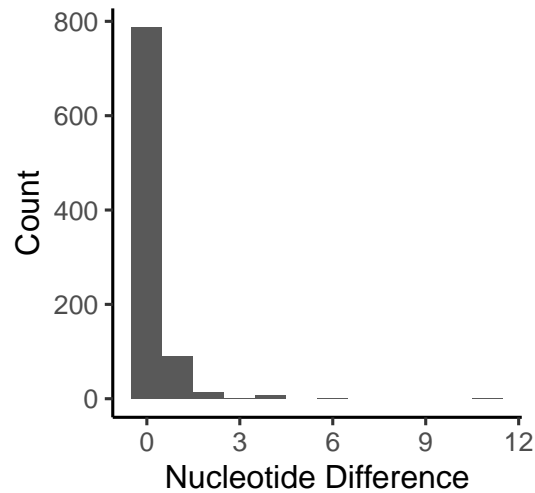
IGHV3-43*01

81 sequences assigned
74 (91.4%) exact matches, in which:
71 unique CDR3
6 unique J



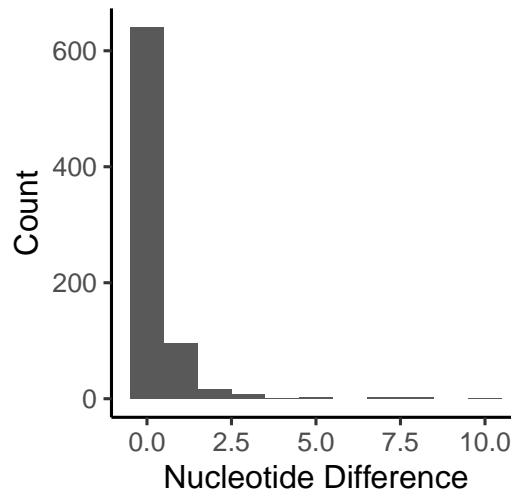
IGHV3-15*01

905 sequences assigned
788 (87.1%) exact matches, in which:
741 unique CDR3
7 unique J



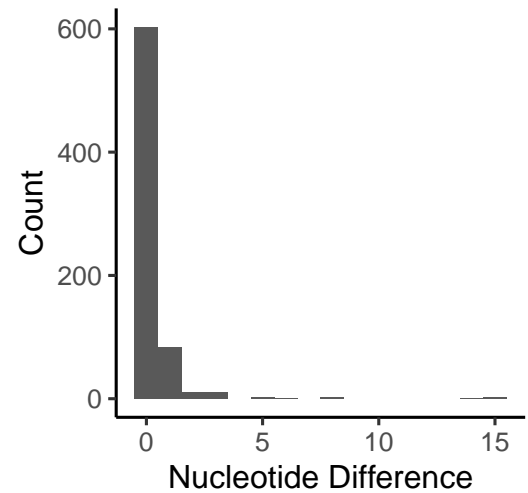
IGHV3-30-3*01

771 sequences assigned
641 (83.1%) exact matches, in which:
597 unique CDR3
6 unique J



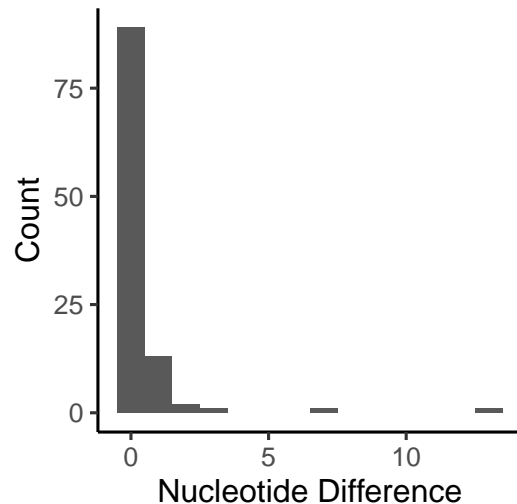
IGHV3-48*01

717 sequences assigned
603 (84.1%) exact matches, in which:
565 unique CDR3
7 unique J



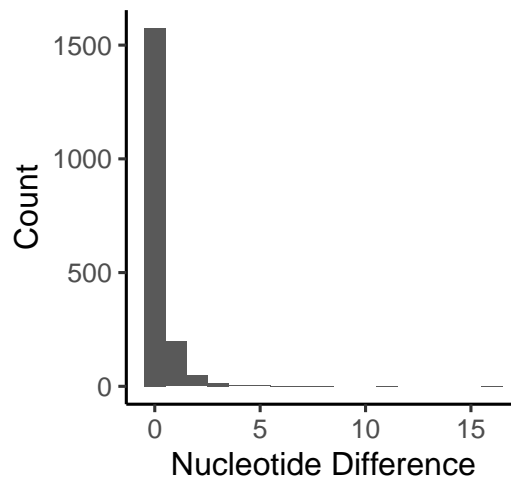
IGHV3-20*01

107 sequences assigned
89 (83.2%) exact matches, in which:
84 unique CDR3
6 unique J



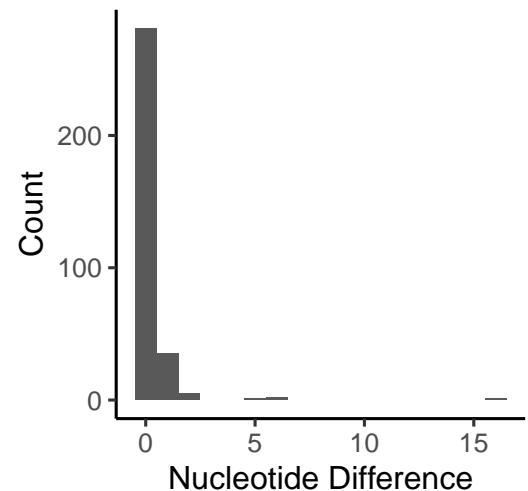
IGHV3-33*01

1849 sequences assigned
1575 (85.2%) exact matches, in which:
1485 unique CDR3
7 unique J



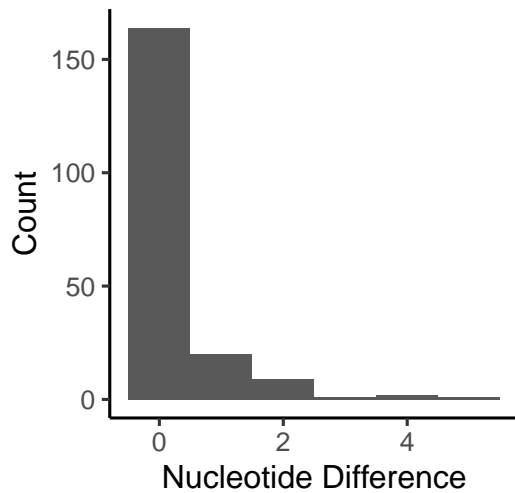
IGHV3-49*03

325 sequences assigned
281 (86.5%) exact matches, in which:
265 unique CDR3
7 unique J



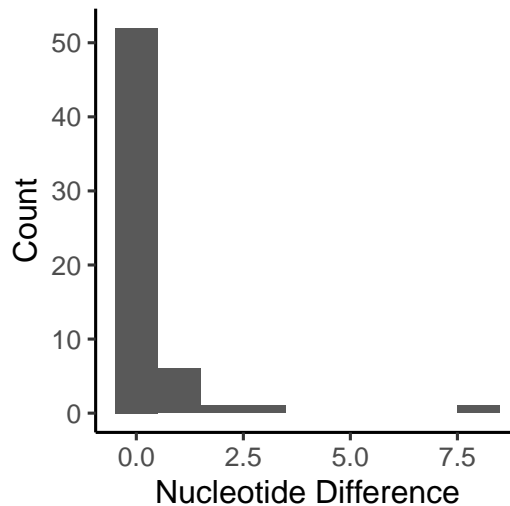
IGHV3–53*02

197 sequences assigned
164 (83.2%) exact matches, in which:
155 unique CDR3
7 unique J



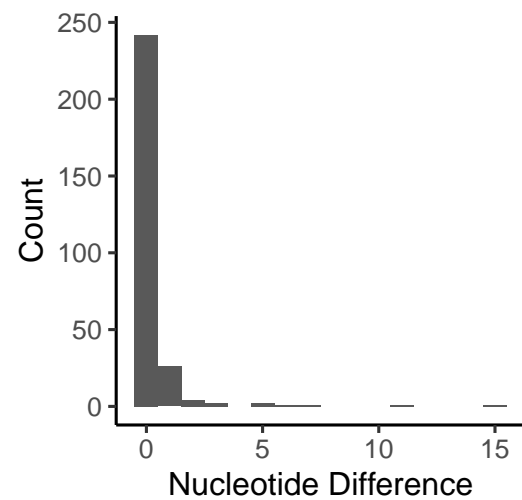
IGHV3–72*01

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



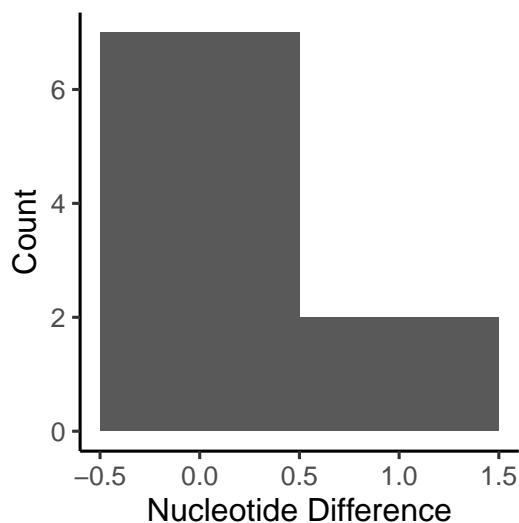
IGHV3–74*01

280 sequences assigned
242 (86.4%) exact matches, in which:
226 unique CDR3
7 unique J



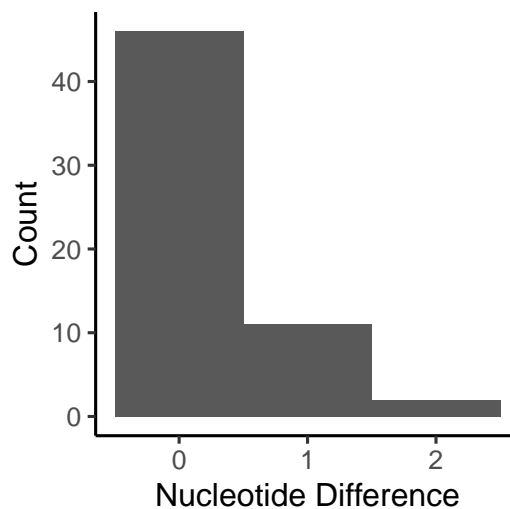
IGHV3–64*02

9 sequences assigned
7 (77.8%) exact matches, in which:
6 unique CDR3
2 unique J



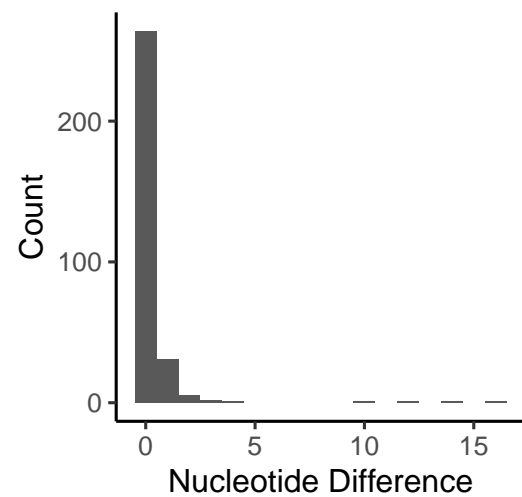
IGHV3–73*01

59 sequences assigned
46 (78%) exact matches, in which:
44 unique CDR3
5 unique J



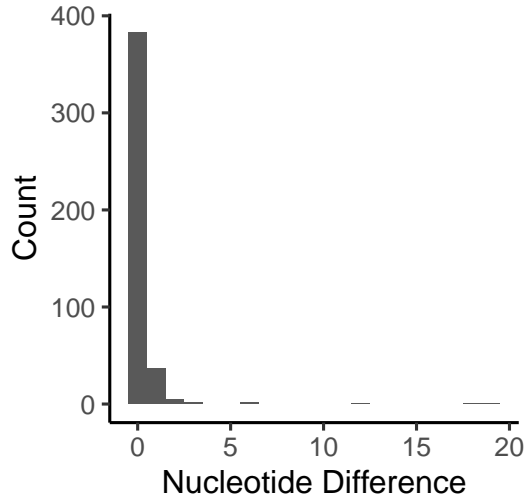
IGHV4–4*07

307 sequences assigned
264 (86%) exact matches, in which:
249 unique CDR3
7 unique J



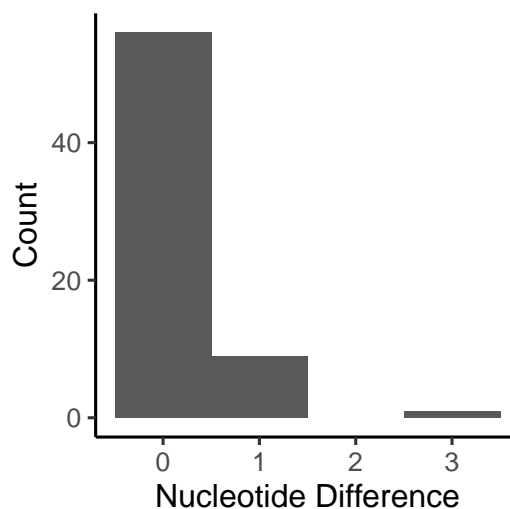
IGHV3–66*01

432 sequences assigned
383 (88.7%) exact matches, in which:
360 unique CDR3
6 unique J



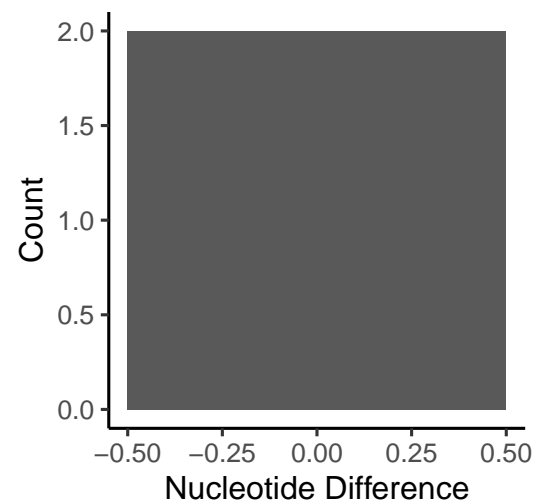
IGHV3–73*02

66 sequences assigned
56 (84.8%) exact matches, in which:
54 unique CDR3
5 unique J



IGHV4–28*01

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



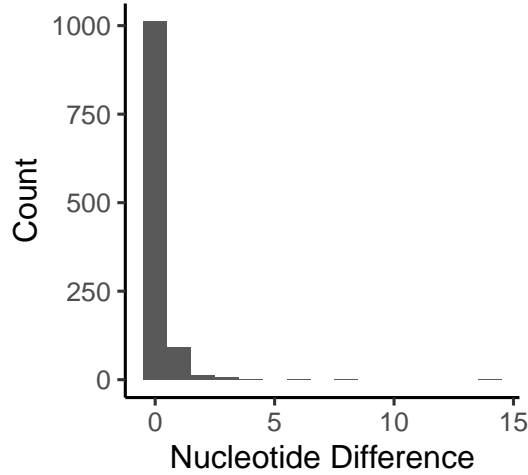
IGHV4-28*03

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



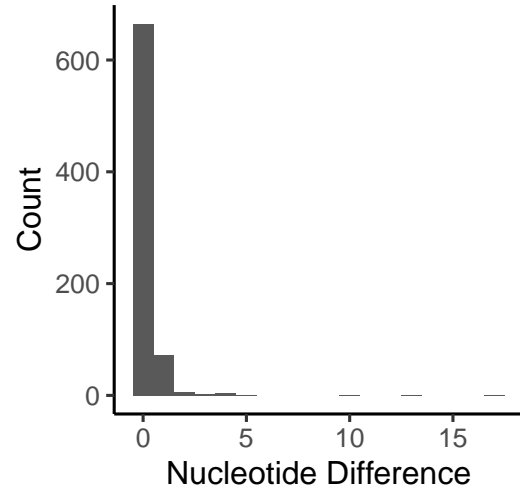
IGHV4-31*03

1130 sequences assigned
1012 (89.6%) exact matches, in which:
963 unique CDR3
7 unique J



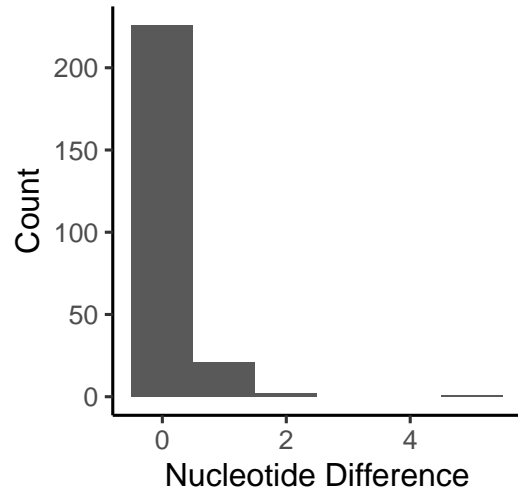
IGHV4-59*01

755 sequences assigned
665 (88.1%) exact matches, in which:
642 unique CDR3
7 unique J



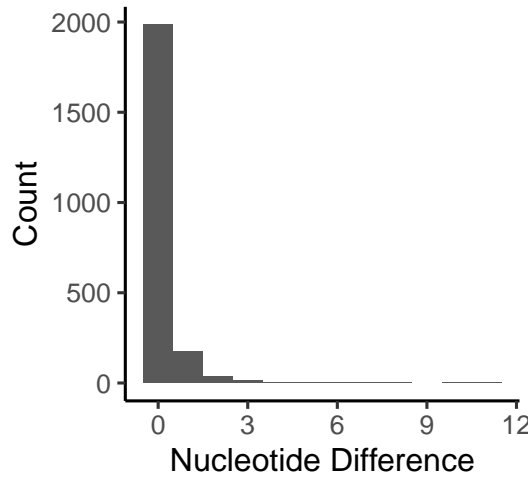
IGHV4-30-2*01

250 sequences assigned
226 (90.4%) exact matches, in which:
217 unique CDR3
7 unique J



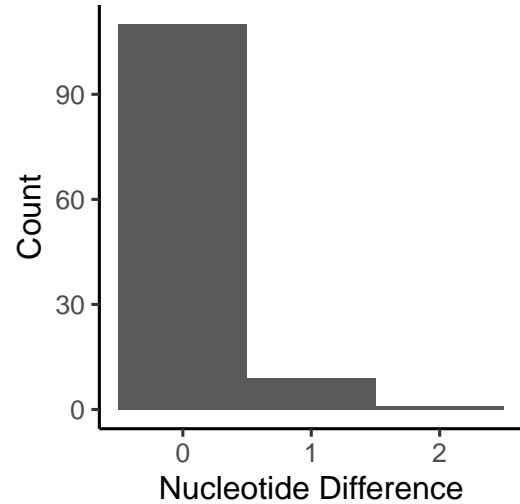
IGHV4-34*01

2228 sequences assigned
1985 (89.1%) exact matches, in which:
1851 unique CDR3
7 unique J



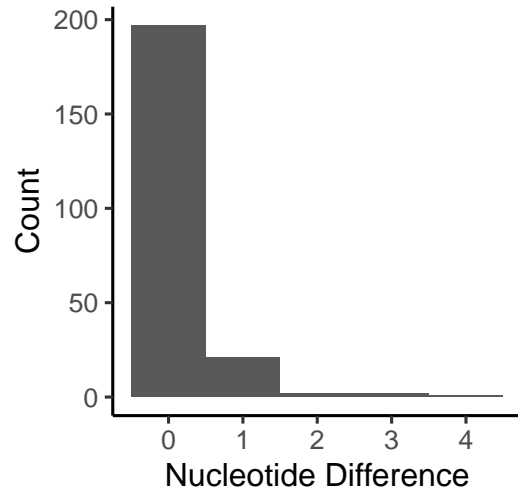
IGHV4-61*01

122 sequences assigned
110 (90.2%) exact matches, in which:
108 unique CDR3
5 unique J



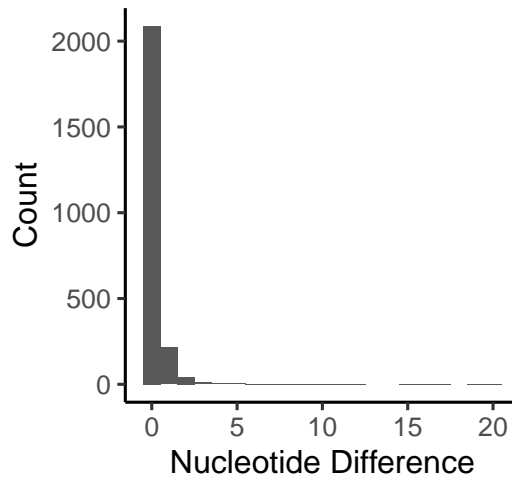
IGHV4-30-4*01

224 sequences assigned
197 (87.9%) exact matches, in which:
191 unique CDR3
7 unique J



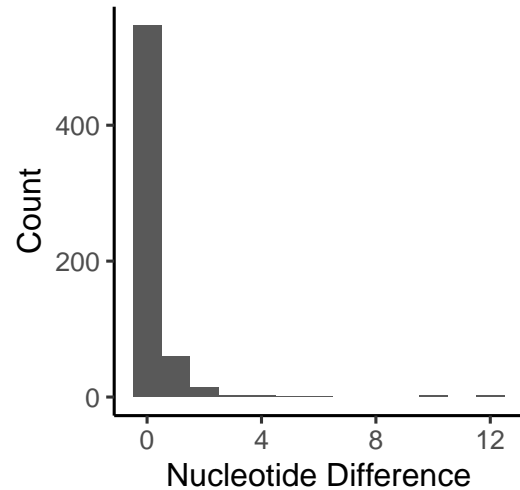
IGHV4-39*01

2384 sequences assigned
2088 (87.6%) exact matches, in which:
1939 unique CDR3
7 unique J



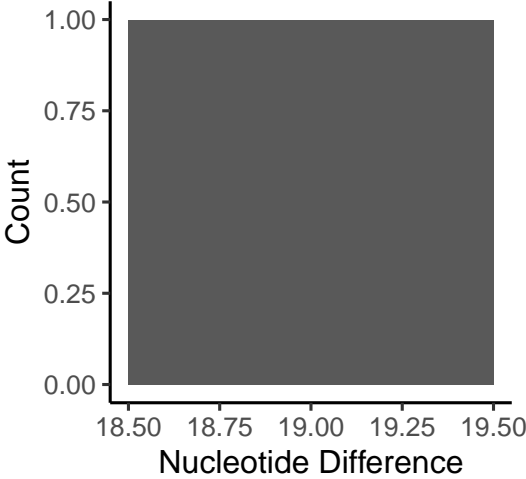
IGHV4-61*02_A234G

630 sequences assigned
547 (86.8%) exact matches, in which:
536 unique CDR3
6 unique J



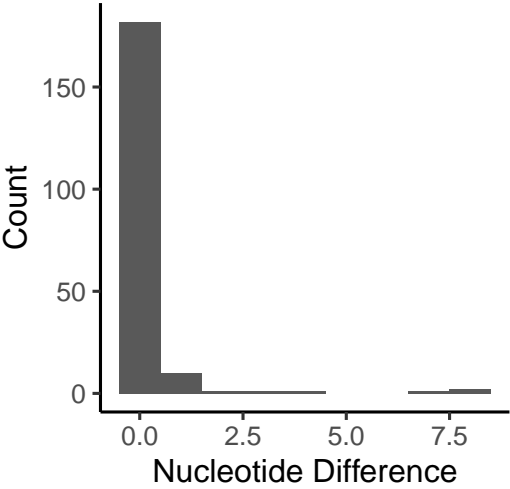
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



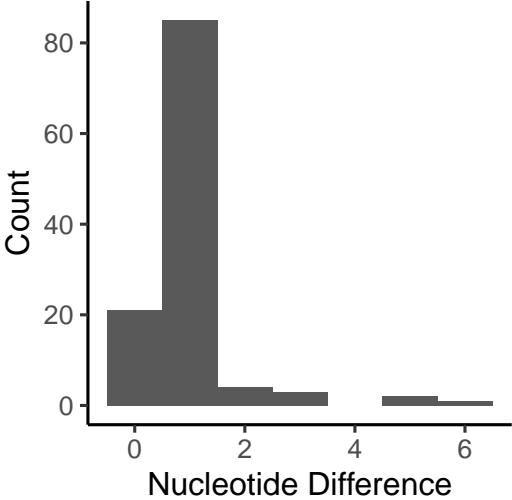
IGHV6-1*01

198 sequences assigned
182 (91.9%) exact matches, in which:
173 unique CDR3
7 unique J



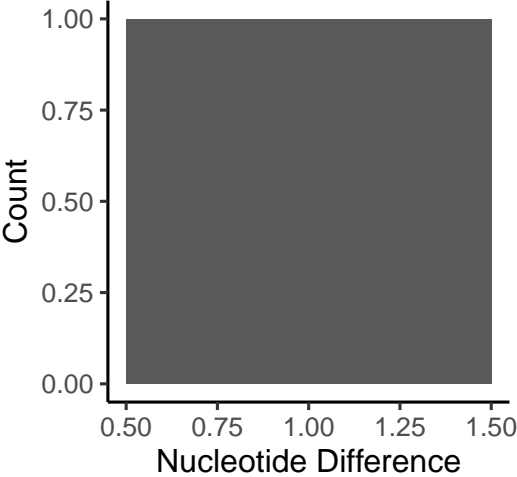
IGHV5-51*01

116 sequences assigned
21 (18.1%) exact matches, in which:
21 unique CDR3
6 unique J



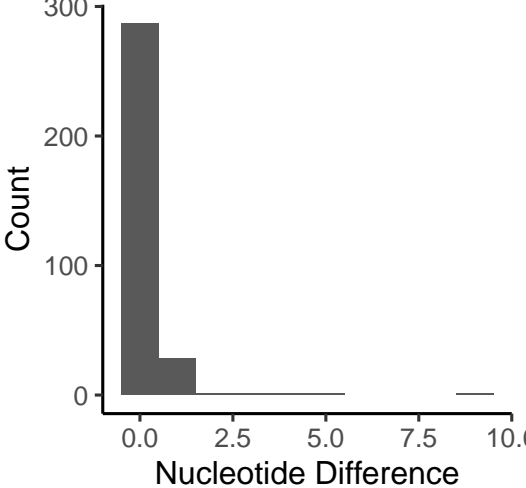
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



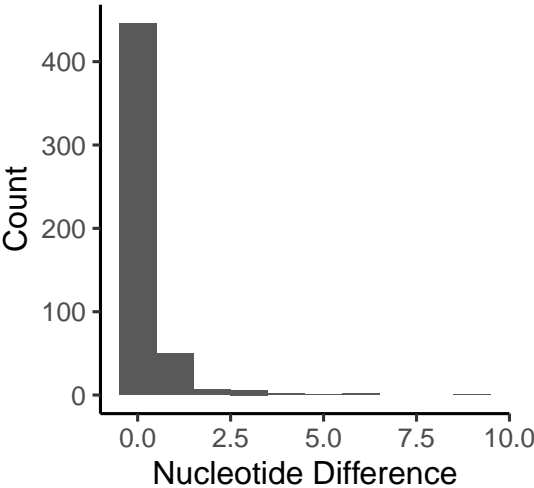
IGHV5-51*03

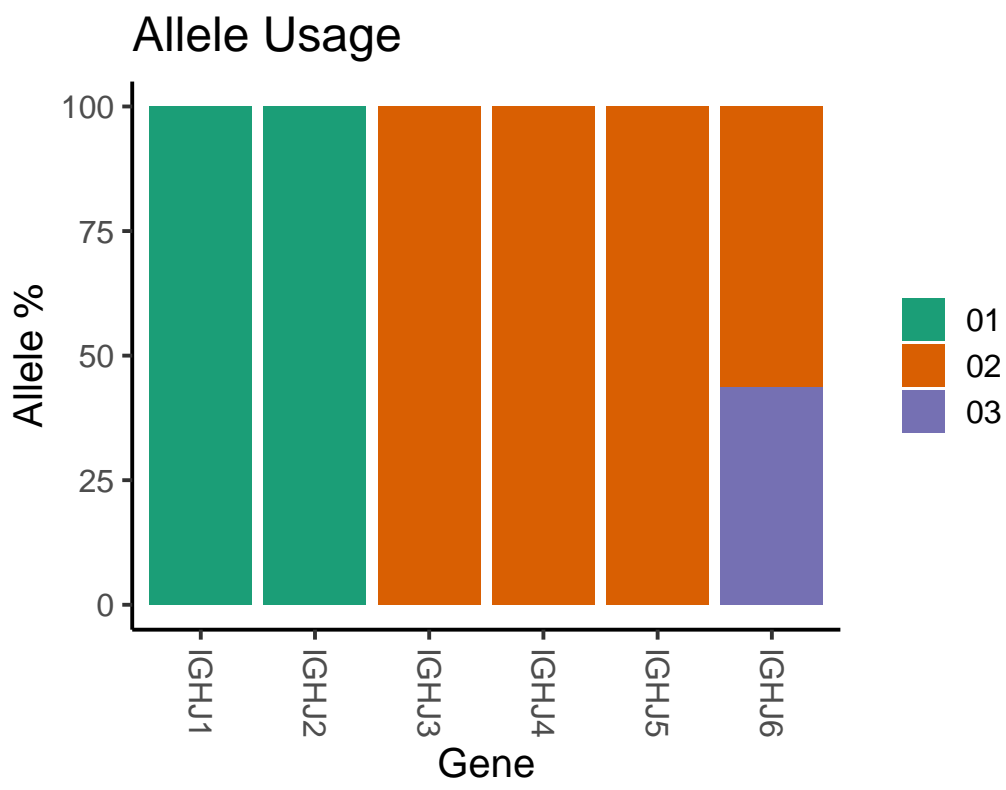
320 sequences assigned
287 (89.7%) exact matches, in which:
272 unique CDR3
7 unique J



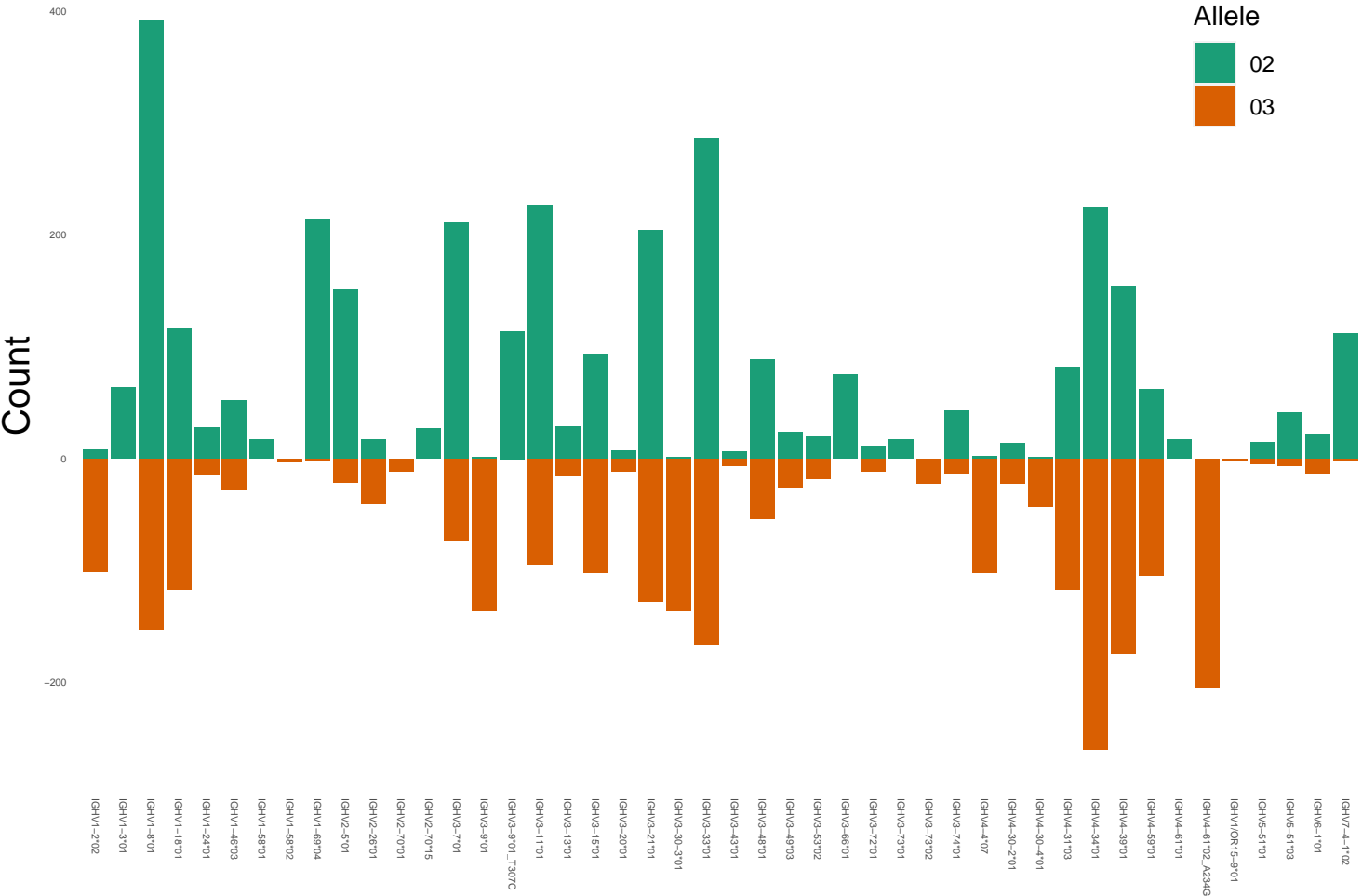
IGHV7-4-1*02

515 sequences assigned
446 (86.6%) exact matches, in which:
421 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.