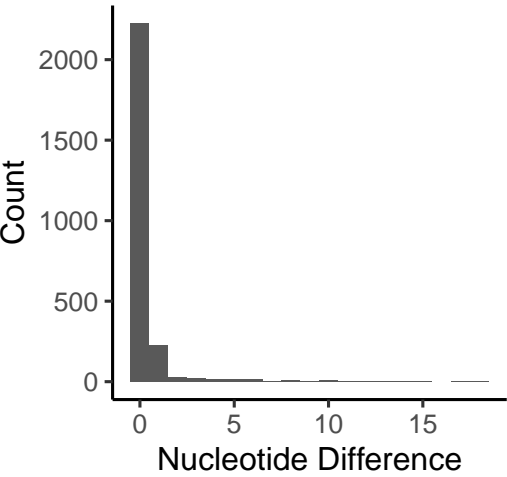


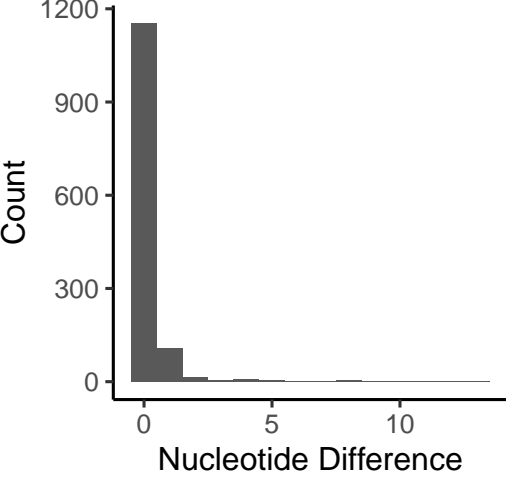
IGHV1-2*02

2588 sequences assigned
2225 (86%) exact matches, in which:
2157 unique CDR3
7 unique J



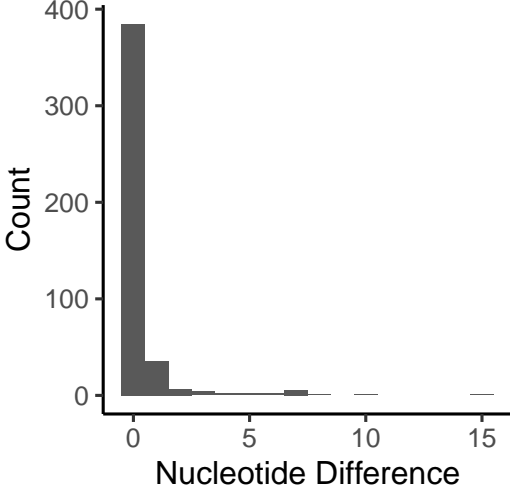
IGHV1-18*01

1309 sequences assigned
1153 (88.1%) exact matches, in which:
1137 unique CDR3
7 unique J



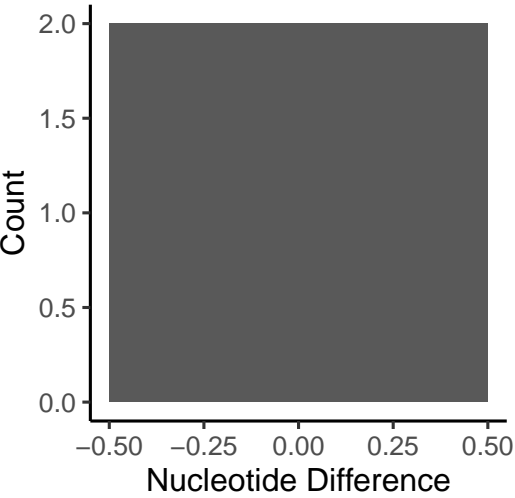
IGHV1-46*01

447 sequences assigned
385 (86.1%) exact matches, in which:
375 unique CDR3
7 unique J



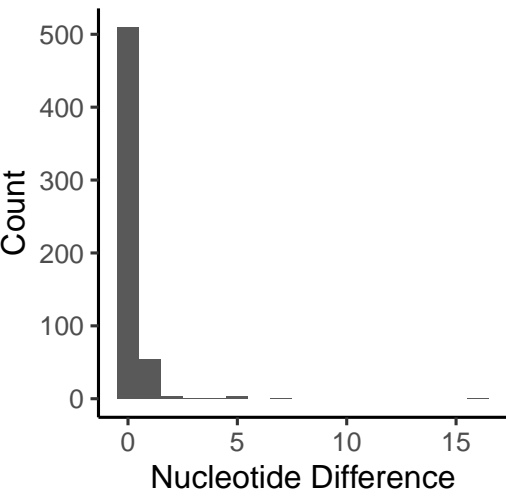
IGHV1-3*02

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



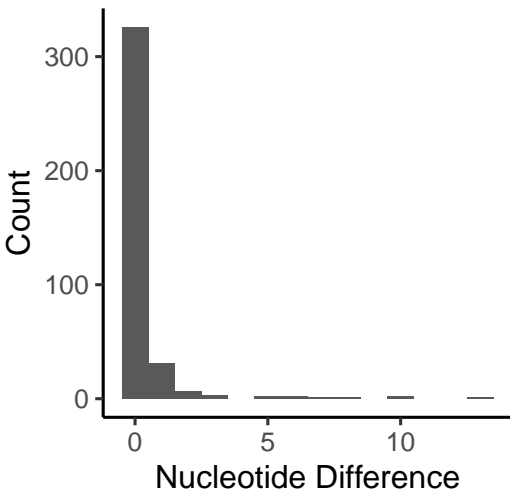
IGHV1-24*01

575 sequences assigned
510 (88.7%) exact matches, in which:
497 unique CDR3
7 unique J



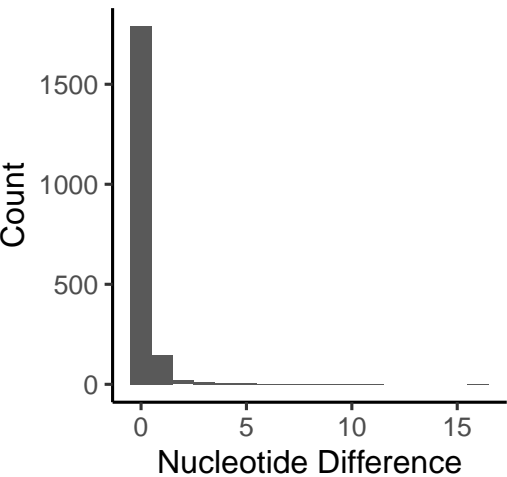
IGHV1-46*03

376 sequences assigned
326 (86.7%) exact matches, in which:
321 unique CDR3
6 unique J



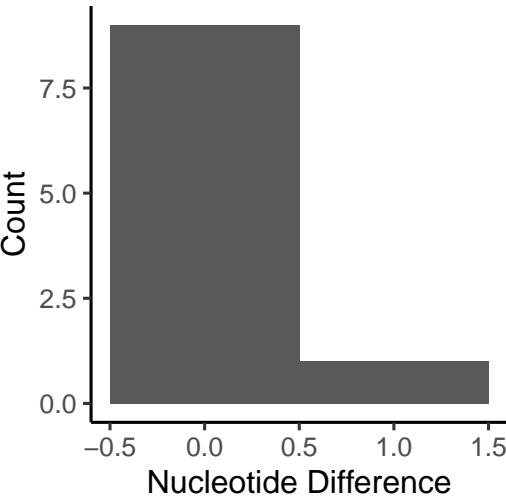
IGHV1-8*01

1996 sequences assigned
1791 (89.7%) exact matches, in which:
1752 unique CDR3
7 unique J



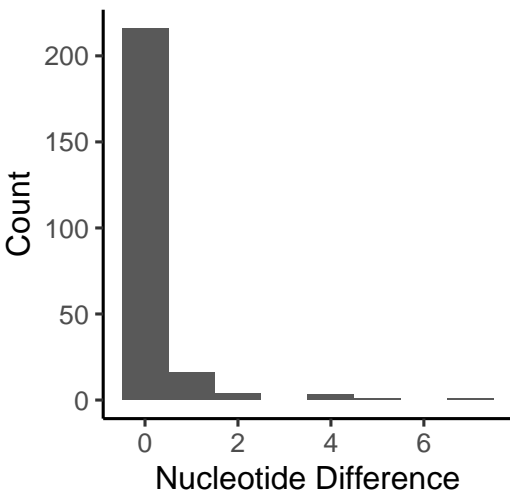
IGHV1-45*02

10 sequences assigned
9 (90%) exact matches, in which:
9 unique CDR3
4 unique J



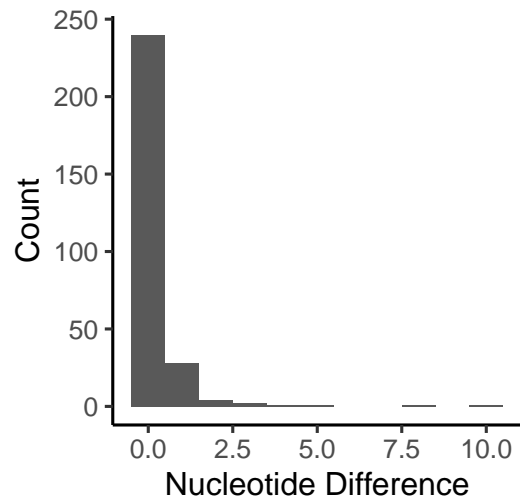
IGHV1-58*01

241 sequences assigned
216 (89.6%) exact matches, in which:
214 unique CDR3
6 unique J



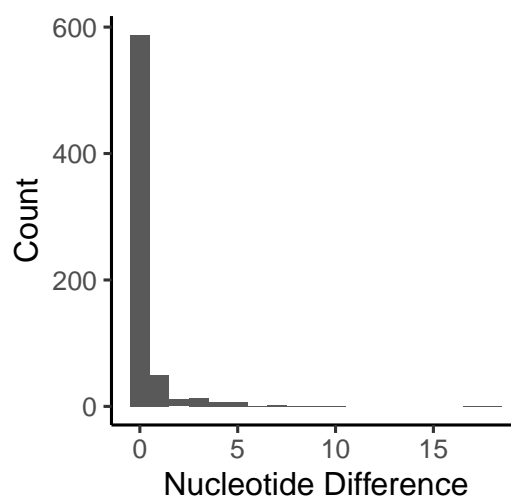
IGHV1–69–2*01

278 sequences assigned
240 (86.3%) exact matches, in which:
238 unique CDR3
7 unique J



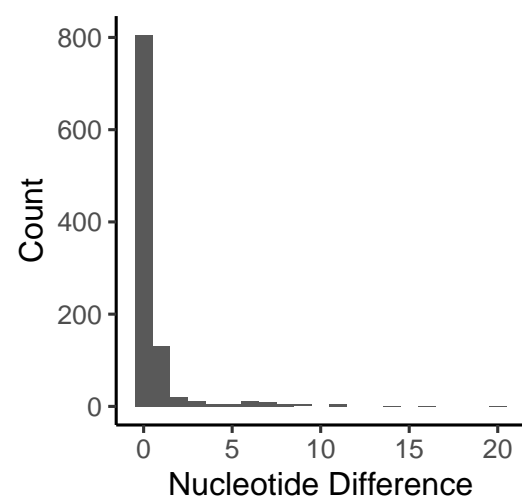
IGHV2–5*02

684 sequences assigned
588 (86%) exact matches, in which:
578 unique CDR3
6 unique J



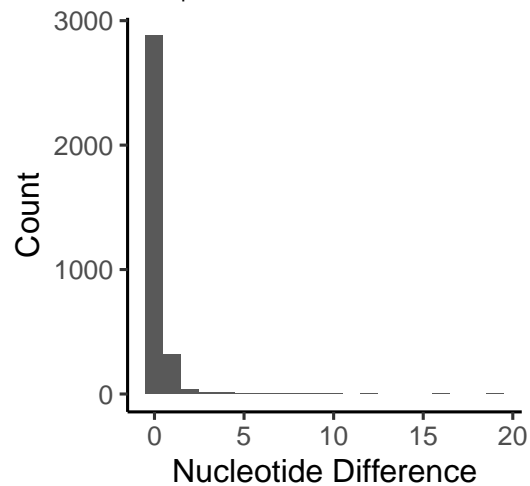
IGHV3–7*01

1018 sequences assigned
806 (79.2%) exact matches, in which:
793 unique CDR3
7 unique J



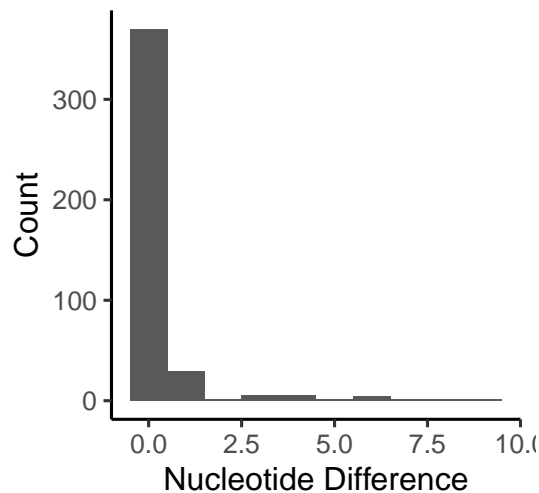
IGHV1–69*06

3283 sequences assigned
2879 (87.7%) exact matches, in which:
2818 unique CDR3
7 unique J



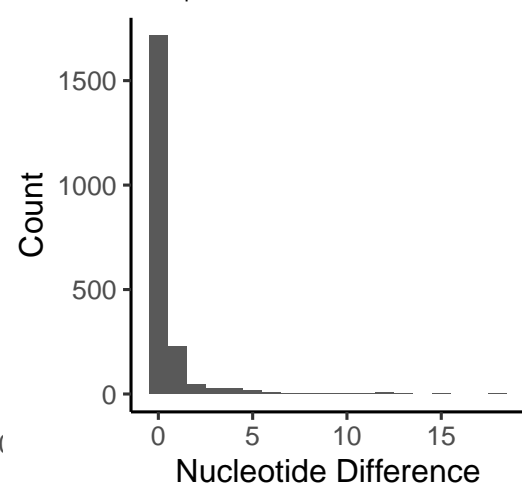
IGHV2–26*01

419 sequences assigned
370 (88.3%) exact matches, in which:
367 unique CDR3
6 unique J



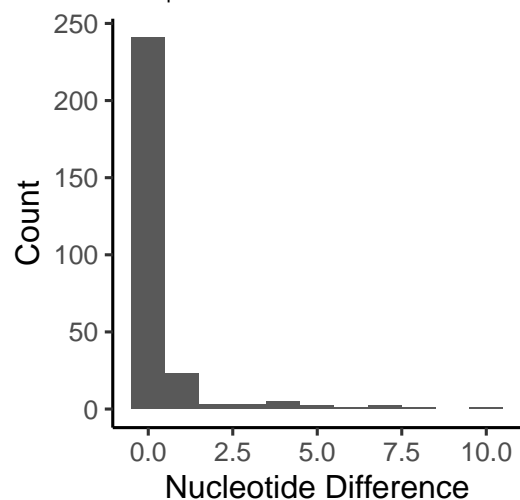
IGHV3–9*01

2080 sequences assigned
1715 (82.5%) exact matches, in which:
1671 unique CDR3
7 unique J



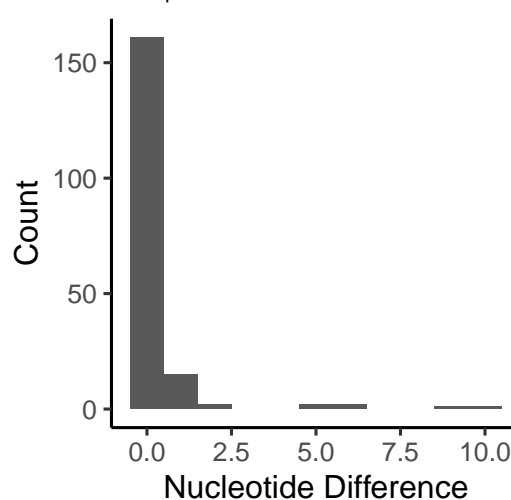
IGHV2–5*01

282 sequences assigned
241 (85.5%) exact matches, in which:
239 unique CDR3
7 unique J



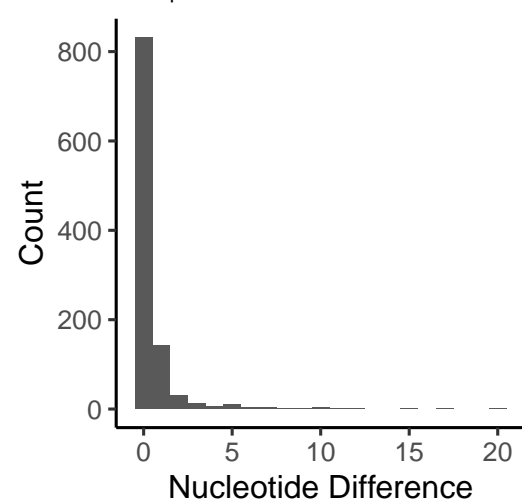
IGHV2–70*01

184 sequences assigned
161 (87.5%) exact matches, in which:
160 unique CDR3
7 unique J



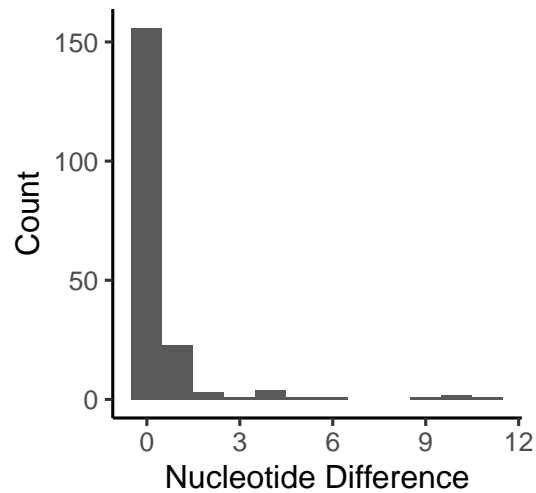
IGHV3–11*01

1054 sequences assigned
832 (78.9%) exact matches, in which:
813 unique CDR3
7 unique J



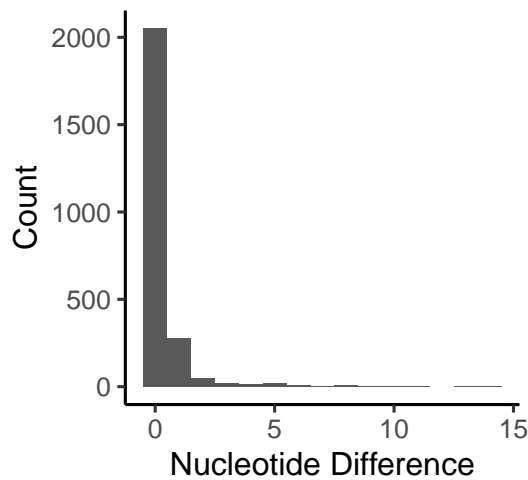
IGHV3-13*01

193 sequences assigned
156 (80.8%) exact matches, in which:
150 unique CDR3
6 unique J



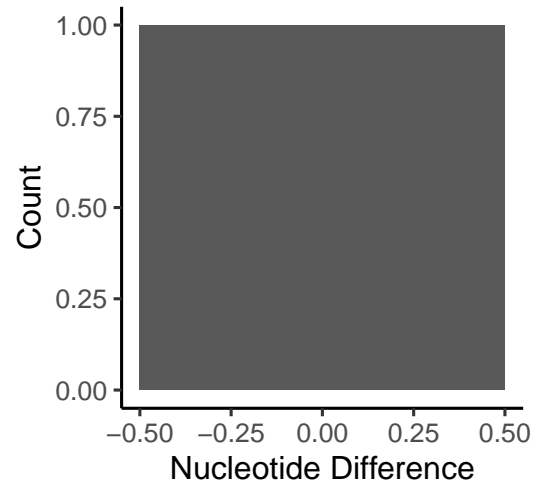
IGHV3-21*01

2457 sequences assigned
2051 (83.5%) exact matches, in which:
1990 unique CDR3
7 unique J



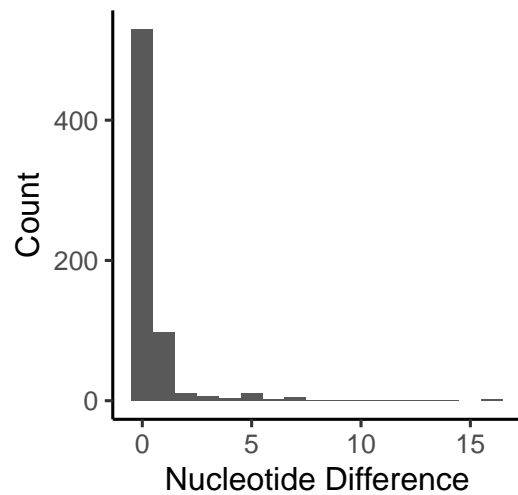
IGHV3-35*02

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



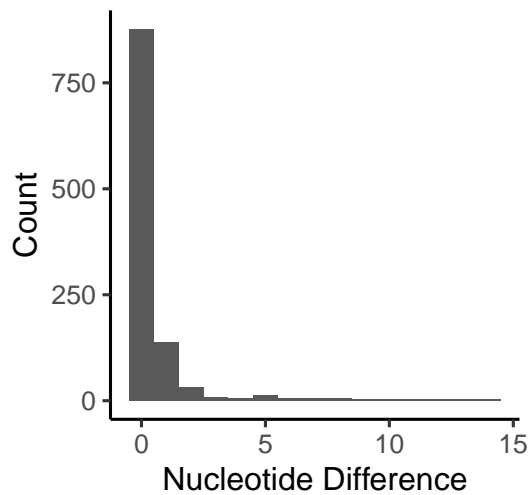
IGHV3-15*01

677 sequences assigned
530 (78.3%) exact matches, in which:
521 unique CDR3
7 unique J



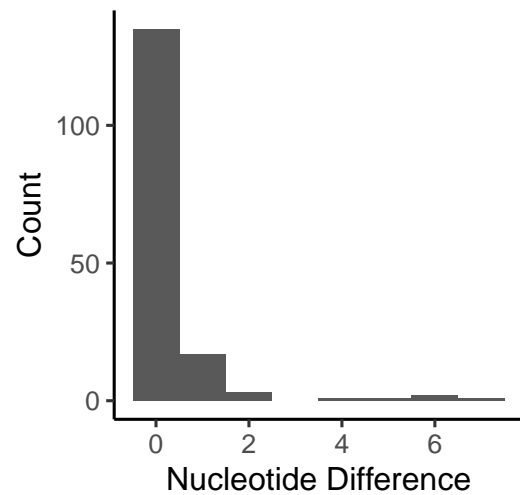
IGHV3-30-3*01

1109 sequences assigned
877 (79.1%) exact matches, in which:
856 unique CDR3
7 unique J



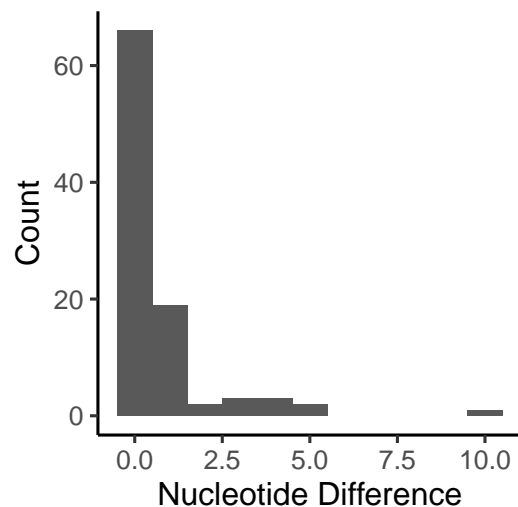
IGHV3-43*01

160 sequences assigned
135 (84.4%) exact matches, in which:
133 unique CDR3
5 unique J



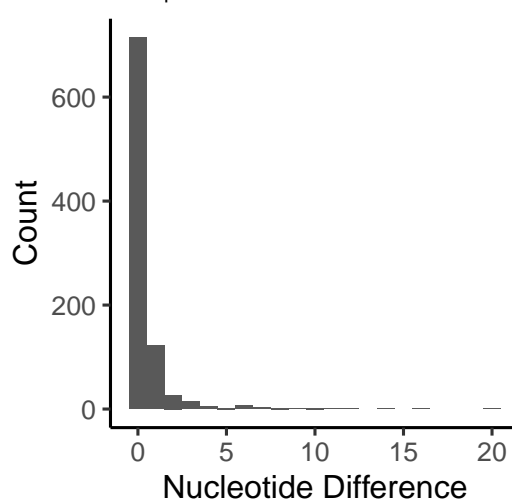
IGHV3-20*01

96 sequences assigned
66 (68.8%) exact matches, in which:
65 unique CDR3
6 unique J



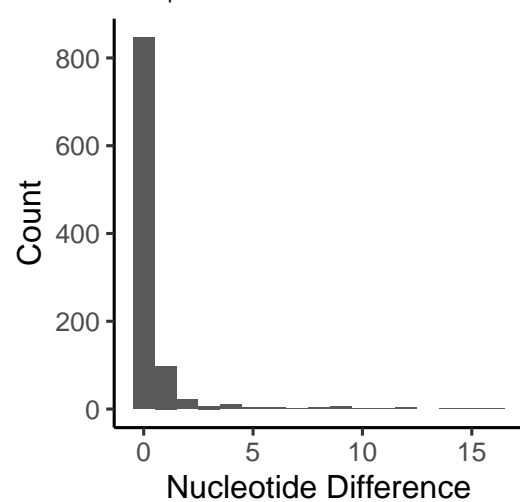
IGHV3-33*01

905 sequences assigned
715 (79%) exact matches, in which:
692 unique CDR3
7 unique J



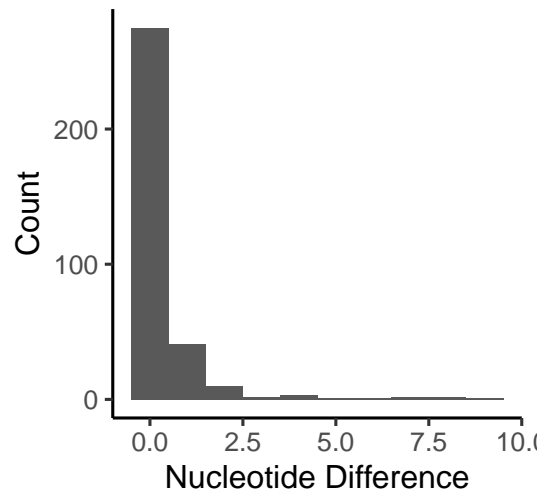
IGHV3-48*02

1012 sequences assigned
847 (83.7%) exact matches, in which:
833 unique CDR3
7 unique J



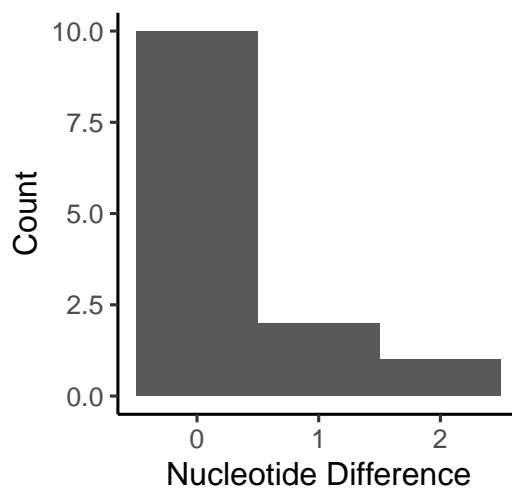
IGHV3-49*05

338 sequences assigned
275 (81.4%) exact matches, in which:
268 unique CDR3
7 unique J



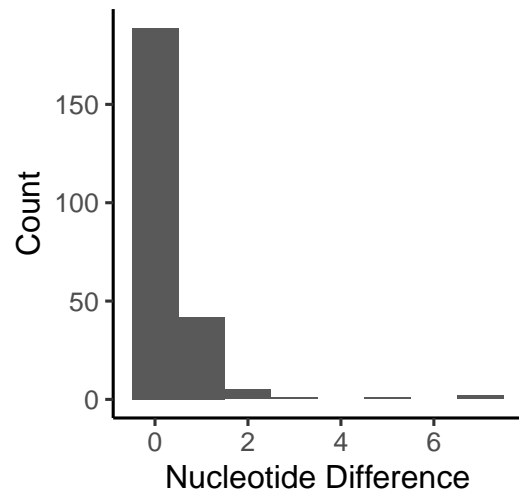
IGHV3-64*02

13 sequences assigned
10 (76.9%) exact matches, in which:
9 unique CDR3
3 unique J



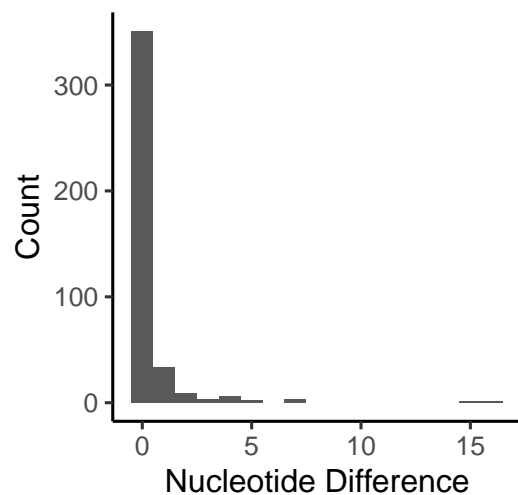
IGHV3-73*02

240 sequences assigned
189 (78.8%) exact matches, in which:
182 unique CDR3
7 unique J



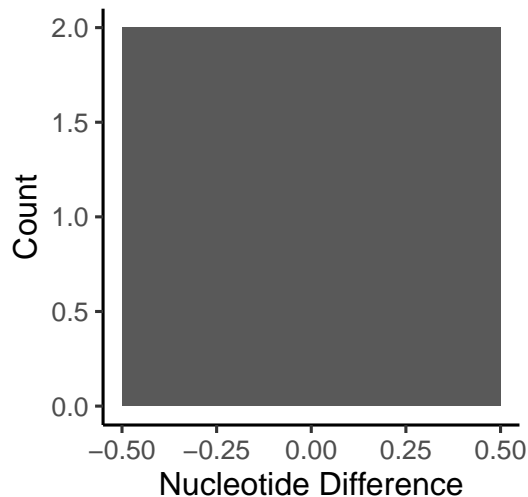
IGHV3-53*01

410 sequences assigned
351 (85.6%) exact matches, in which:
345 unique CDR3
7 unique J



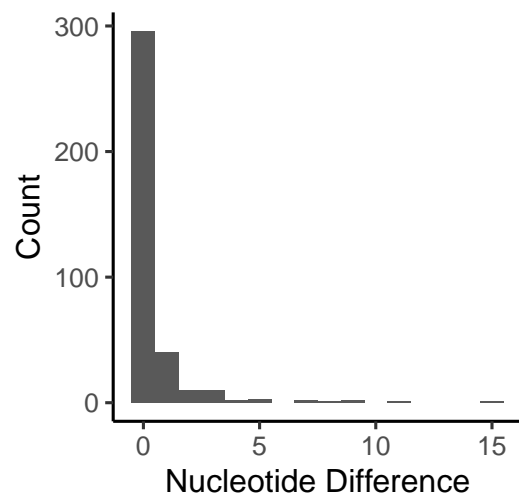
IGHV3-66*03

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



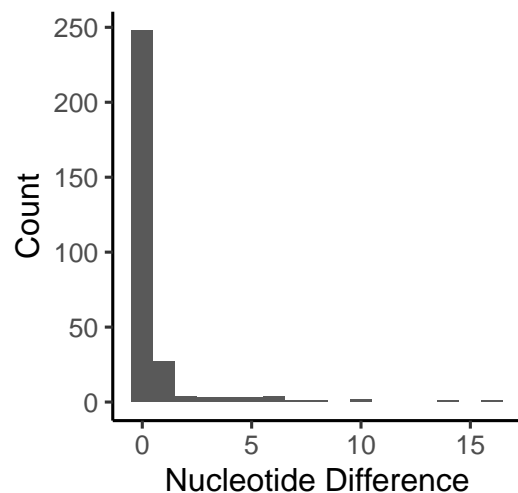
IGHV3-74*01

368 sequences assigned
296 (80.4%) exact matches, in which:
291 unique CDR3
7 unique J



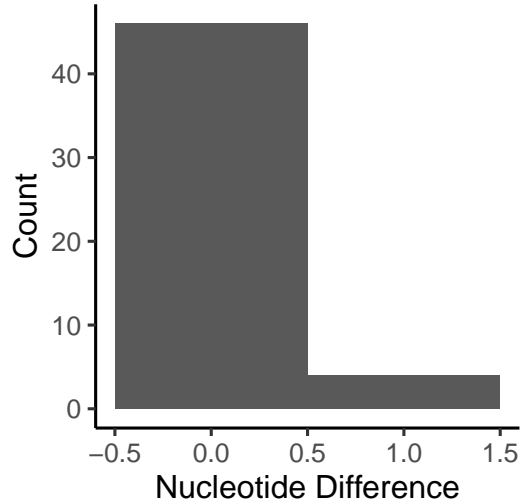
IGHV3-53*02

298 sequences assigned
248 (83.2%) exact matches, in which:
244 unique CDR3
6 unique J



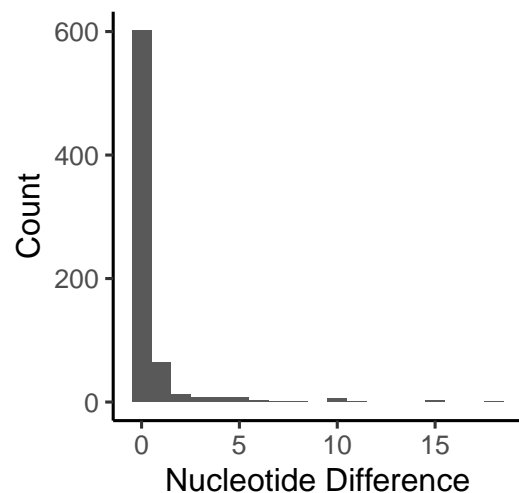
IGHV3-72*01

50 sequences assigned
46 (92%) exact matches, in which:
45 unique CDR3
6 unique J



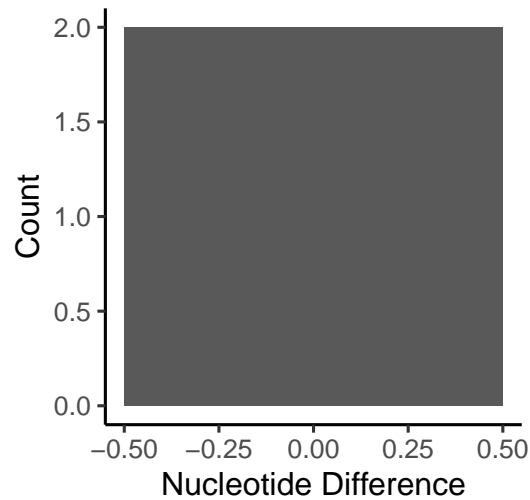
IGHV4-4*07

713 sequences assigned
602 (84.4%) exact matches, in which:
591 unique CDR3
7 unique J



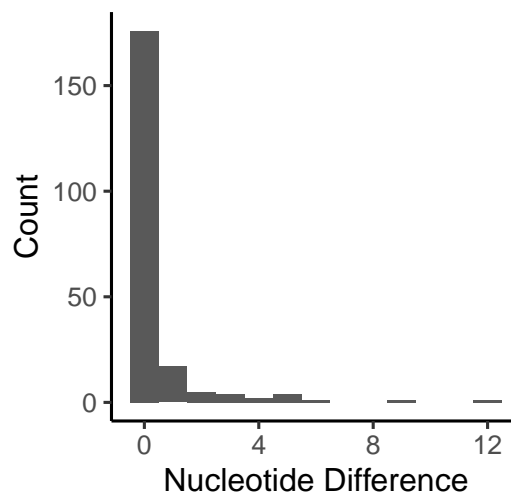
IGHV4-28*01

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



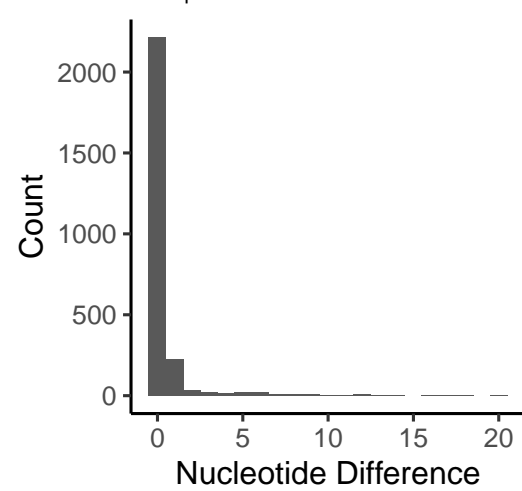
IGHV4-30-4*01

211 sequences assigned
176 (83.4%) exact matches, in which:
175 unique CDR3
6 unique J



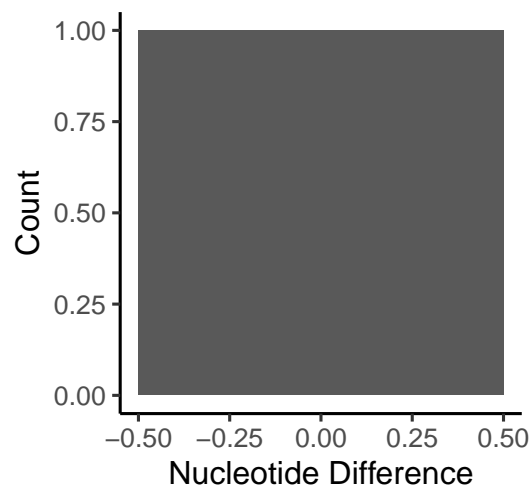
IGHV4-39*01

2605 sequences assigned
2214 (85%) exact matches, in which:
2150 unique CDR3
7 unique J



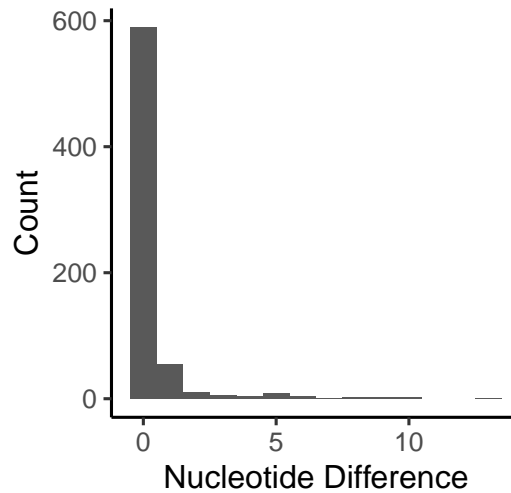
IGHV4-28*07

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



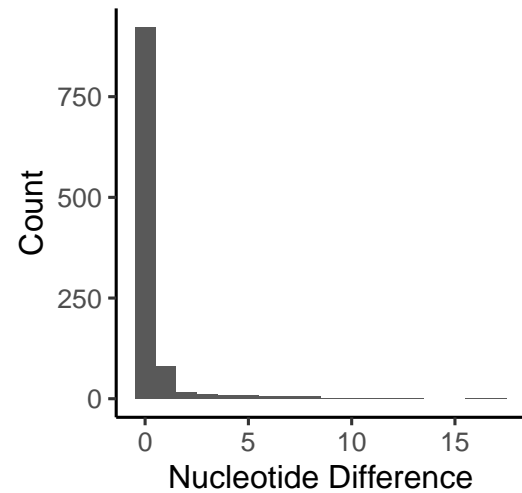
IGHV4-31*03

685 sequences assigned
590 (86.1%) exact matches, in which:
584 unique CDR3
6 unique J



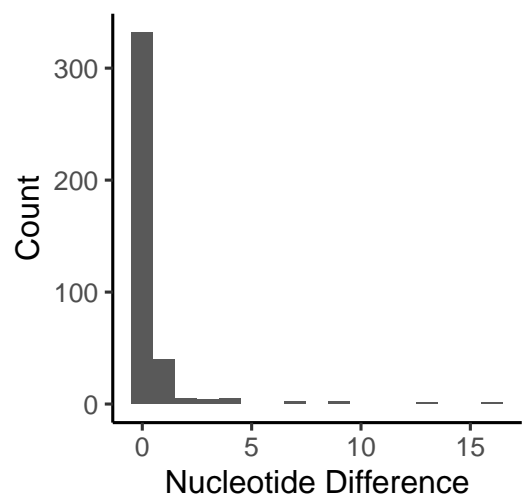
IGHV4-59*01

1074 sequences assigned
923 (85.9%) exact matches, in which:
909 unique CDR3
7 unique J



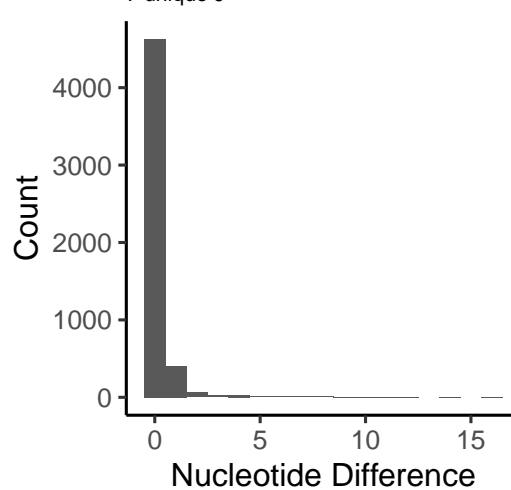
IGHV4-30-2*01

392 sequences assigned
332 (84.7%) exact matches, in which:
325 unique CDR3
7 unique J



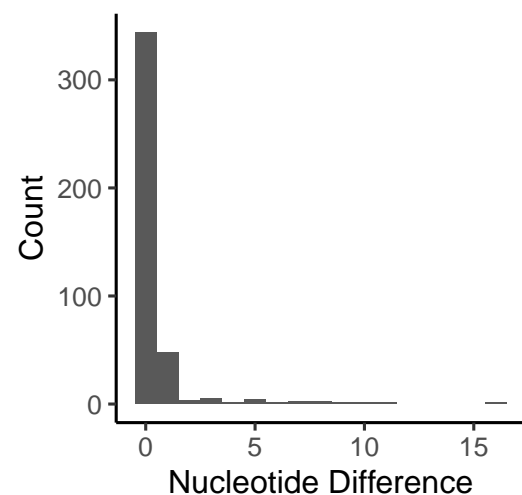
IGHV4-34*01

5201 sequences assigned
4628 (89%) exact matches, in which:
4529 unique CDR3
7 unique J



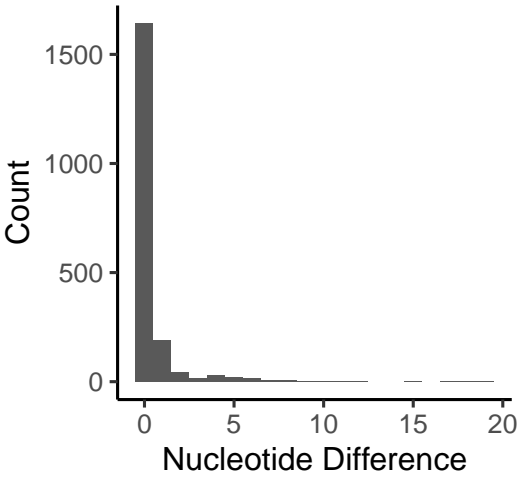
IGHV4-61*01

415 sequences assigned
344 (82.9%) exact matches, in which:
341 unique CDR3
7 unique J



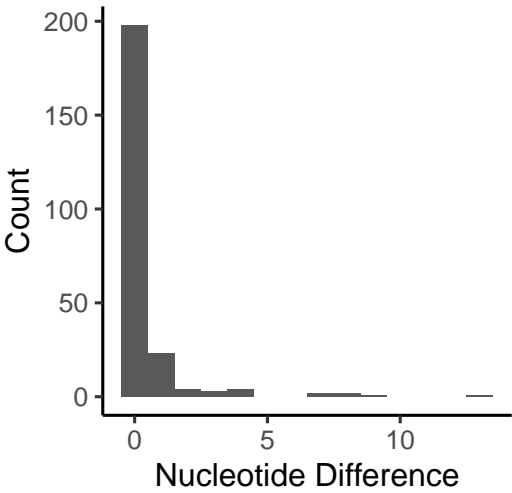
IGHV5-51*01

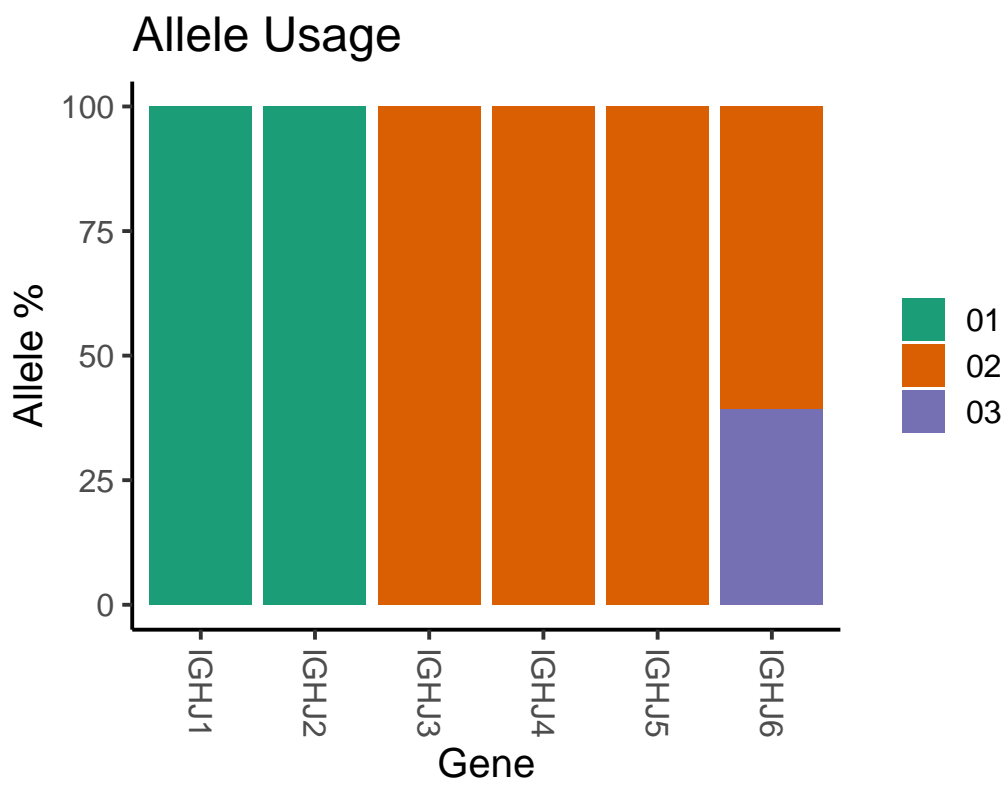
1982 sequences assigned
1642 (82.8%) exact matches, in which:
1605 unique CDR3
7 unique J



IGHV6-1*01

238 sequences assigned
198 (83.2%) exact matches, in which:
194 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



[illegible]