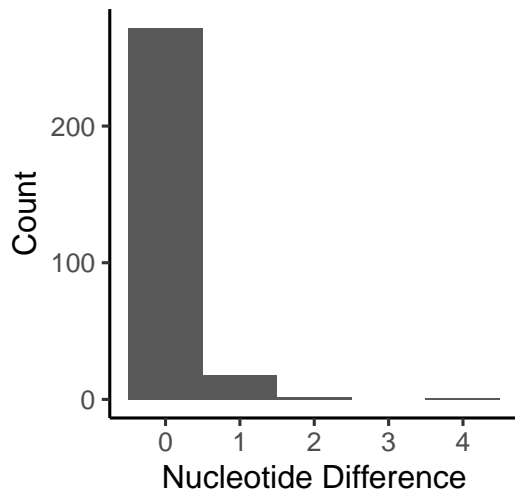


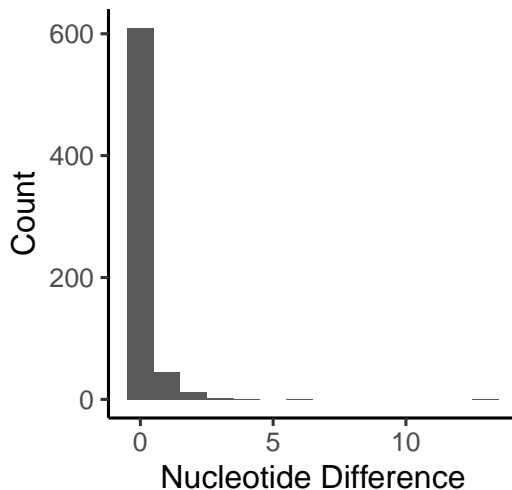
IGHV1–2*04

293 sequences assigned
272 (92.8%) exact matches, in which:
259 unique CDR3
7 unique J



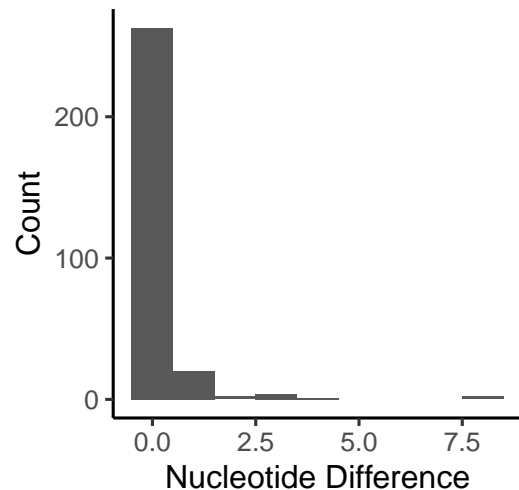
IGHV1–18*04

672 sequences assigned
610 (90.8%) exact matches, in which:
588 unique CDR3
6 unique J



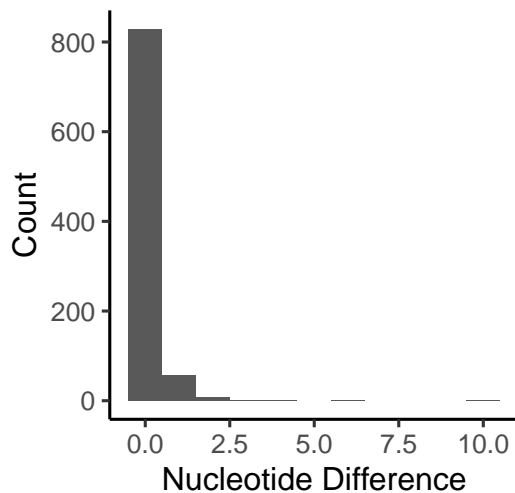
IGHV1–46*01

292 sequences assigned
263 (90.1%) exact matches, in which:
249 unique CDR3
7 unique J



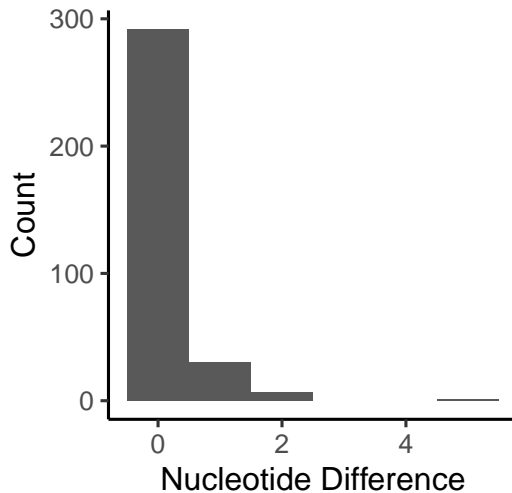
IGHV1–3*01

900 sequences assigned
829 (92.1%) exact matches, in which:
796 unique CDR3
7 unique J



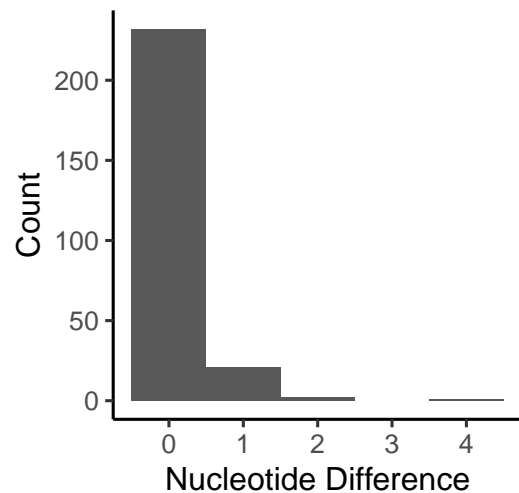
IGHV1–24*01

330 sequences assigned
292 (88.5%) exact matches, in which:
278 unique CDR3
7 unique J



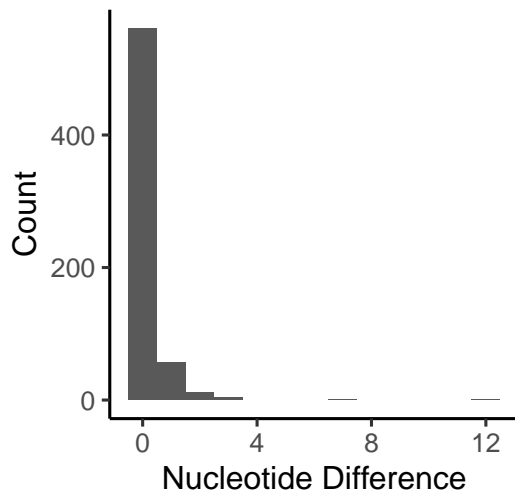
IGHV1–46*03

256 sequences assigned
232 (90.6%) exact matches, in which:
221 unique CDR3
6 unique J



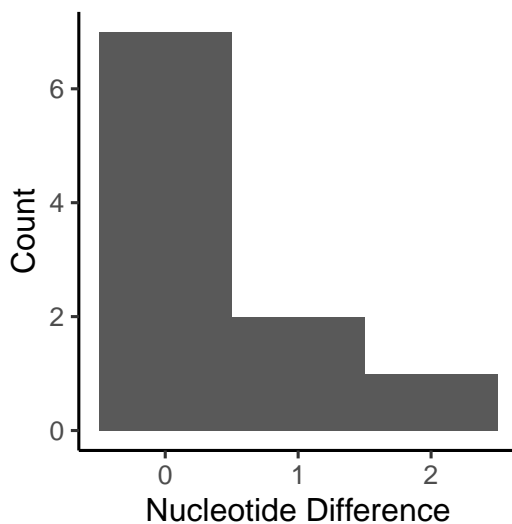
IGHV1–18*01

635 sequences assigned
561 (88.3%) exact matches, in which:
540 unique CDR3
6 unique J



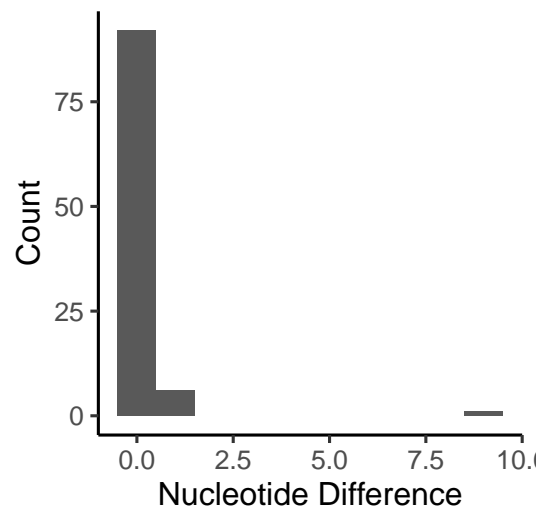
IGHV1–45*02

10 sequences assigned
7 (70%) exact matches, in which:
7 unique CDR3
4 unique J



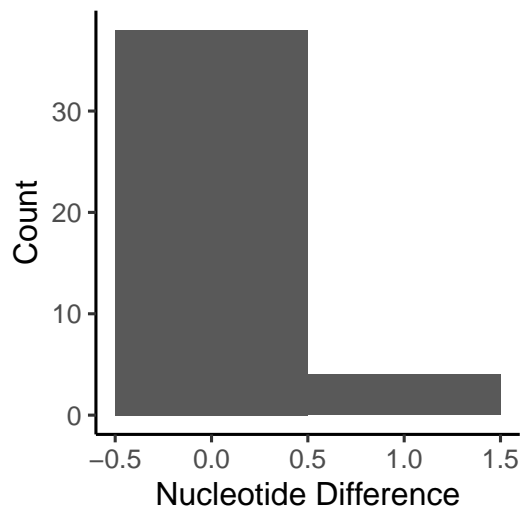
IGHV1–58*01

99 sequences assigned
92 (92.9%) exact matches, in which:
86 unique CDR3
6 unique J



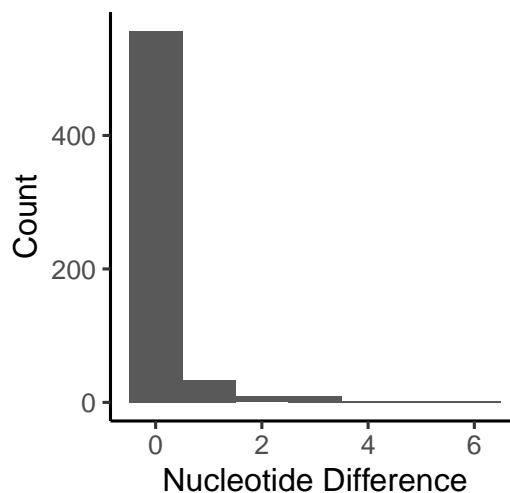
IGHV1-58*02

42 sequences assigned
38 (90.5%) exact matches, in which:
36 unique CDR3
5 unique J



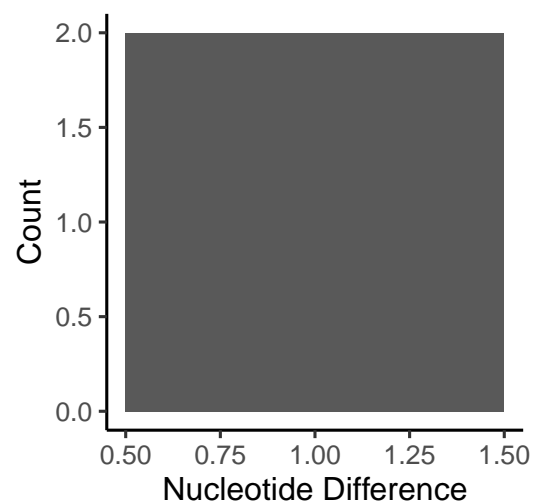
IGHV2-5*02

616 sequences assigned
557 (90.4%) exact matches, in which:
503 unique CDR3
7 unique J



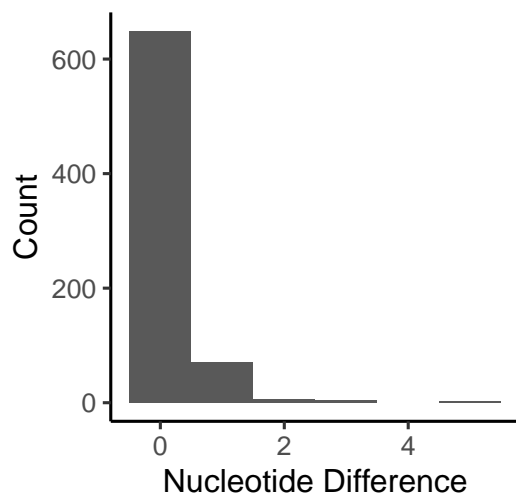
IGHV2-70D*04

2 sequences assigned
No exact matches.



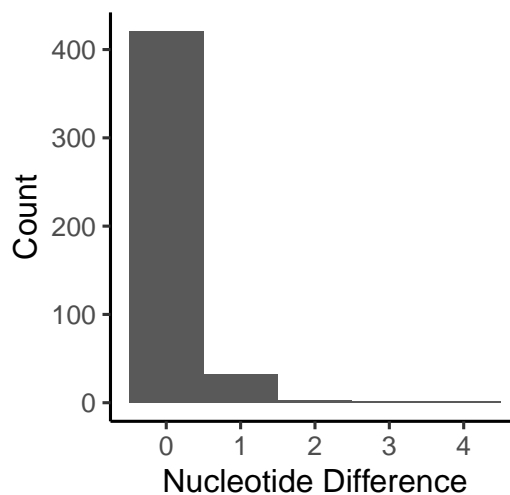
IGHV1-69*08_C191T

732 sequences assigned
649 (88.7%) exact matches, in which:
602 unique CDR3
6 unique J



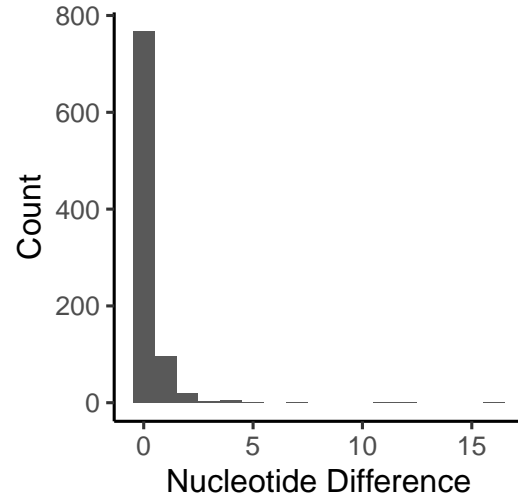
IGHV2-26*01

460 sequences assigned
421 (91.5%) exact matches, in which:
397 unique CDR3
7 unique J



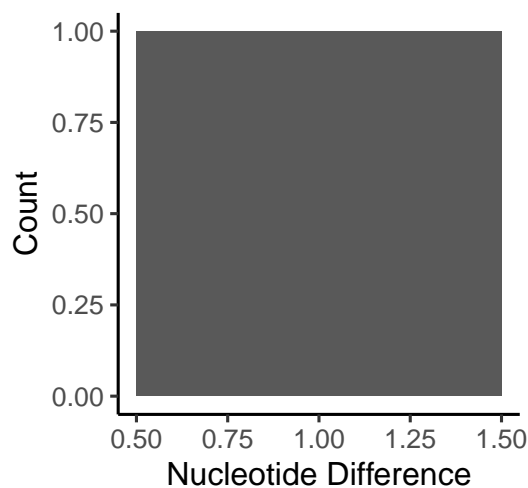
IGHV3-7*03

898 sequences assigned
768 (85.5%) exact matches, in which:
729 unique CDR3
7 unique J



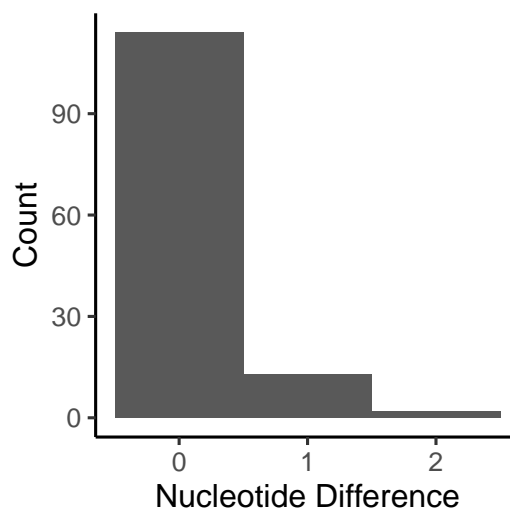
IGHV1-NL1*01

1 sequences assigned
No exact matches.



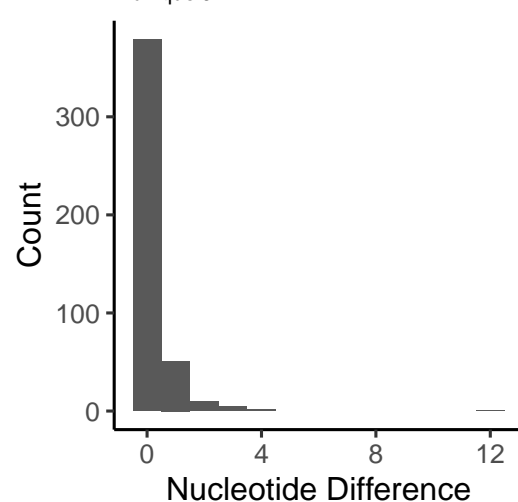
IGHV2-70*01

129 sequences assigned
114 (88.4%) exact matches, in which:
112 unique CDR3
5 unique J



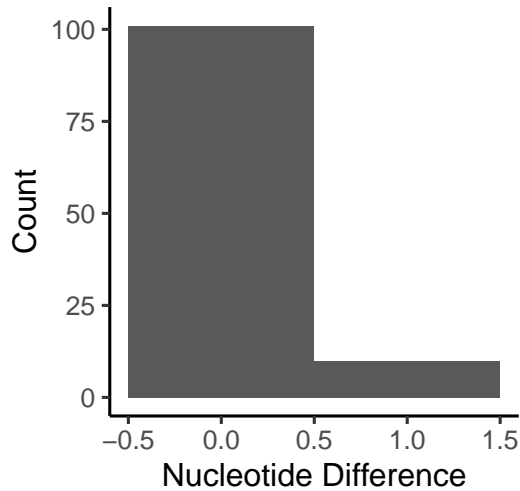
IGHV3-11*06

448 sequences assigned
379 (84.6%) exact matches, in which:
363 unique CDR3
7 unique J



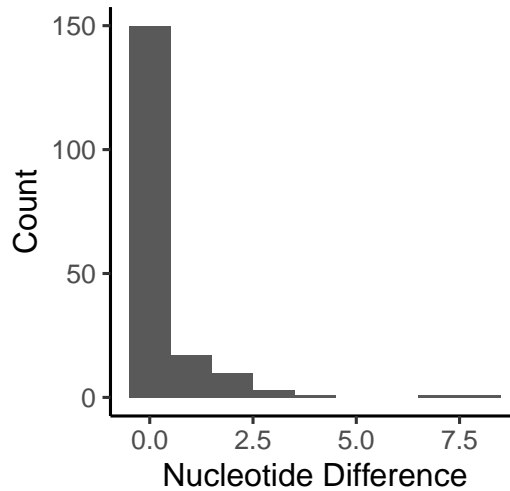
IGHV3-13*05

111 sequences assigned
101 (91%) exact matches, in which:
91 unique CDR3
5 unique J



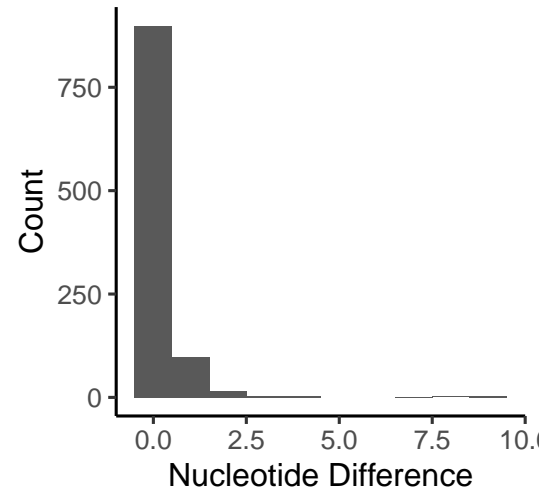
IGHV3-20*04

183 sequences assigned
150 (82%) exact matches, in which:
141 unique CDR3
6 unique J



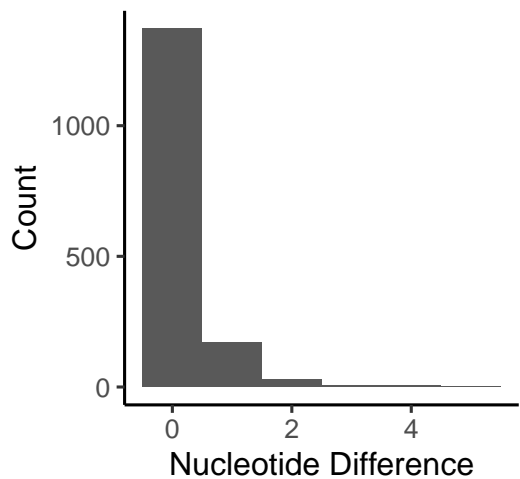
IGHV3-30*01

1026 sequences assigned
899 (87.6%) exact matches, in which:
856 unique CDR3
6 unique J



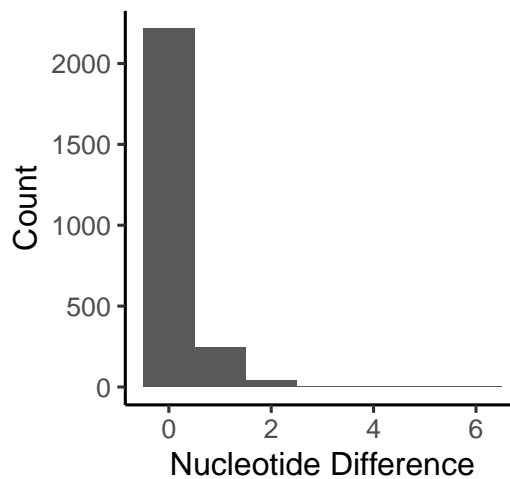
IGHV3-15*01

1584 sequences assigned
1371 (86.6%) exact matches, in which:
1306 unique CDR3
7 unique J



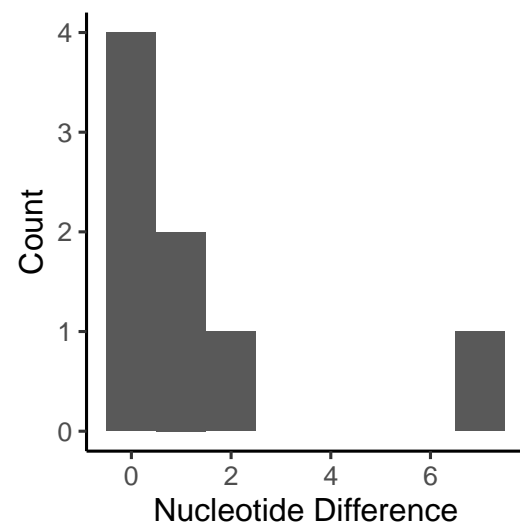
IGHV3-21*01

2518 sequences assigned
2215 (88%) exact matches, in which:
2097 unique CDR3
7 unique J



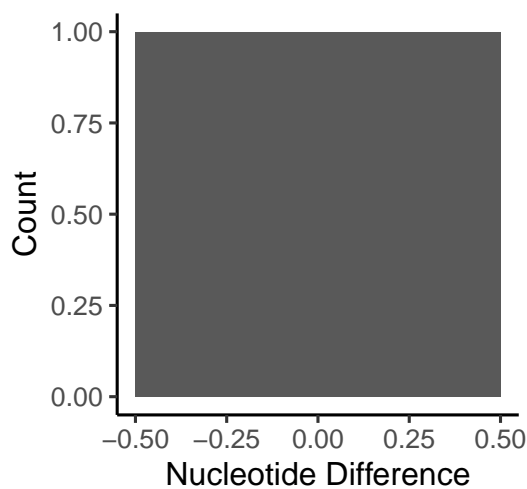
IGHV3-30-3*03

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



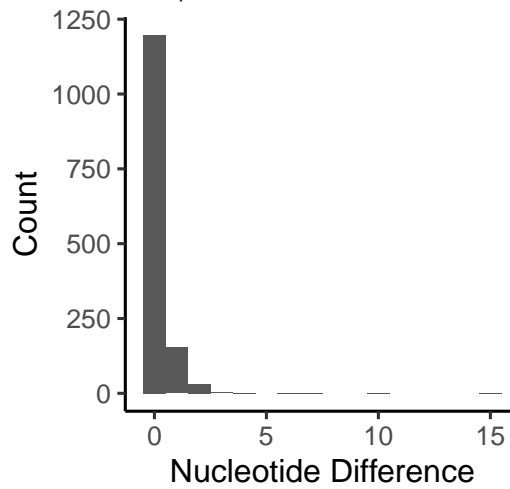
IGHV3-19*01

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



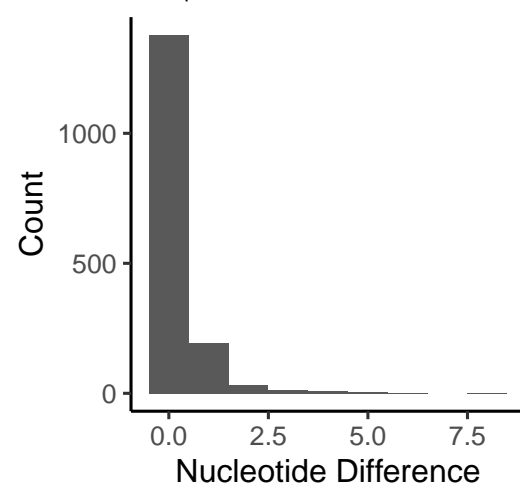
IGHV3-23*04

1391 sequences assigned
1197 (86.1%) exact matches, in which:
1151 unique CDR3
6 unique J



IGHV3-33*01

1633 sequences assigned
1378 (84.4%) exact matches, in which:
1302 unique CDR3
7 unique J



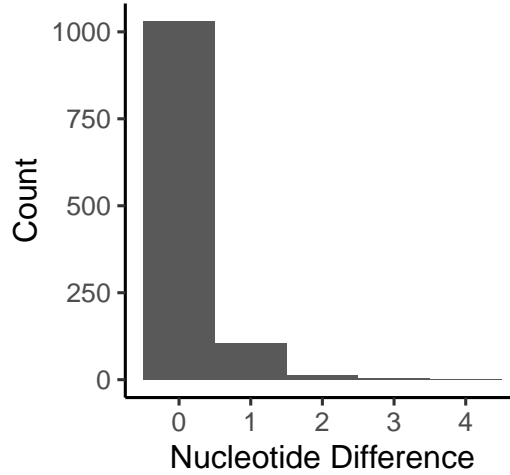
IGHV3-35*02

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



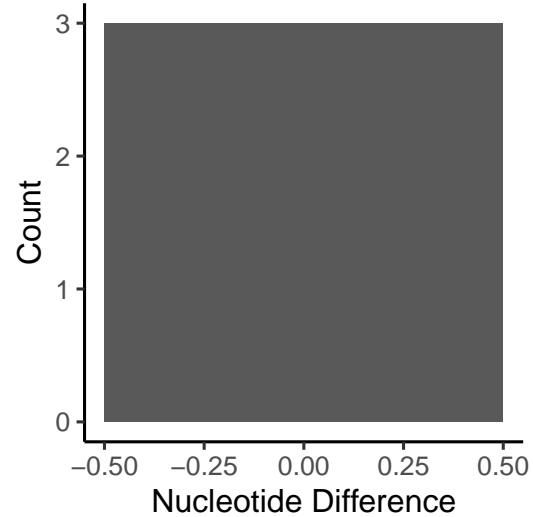
IGHV3-48*03

1153 sequences assigned
1030 (89.3%) exact matches, in which:
993 unique CDR3
6 unique J



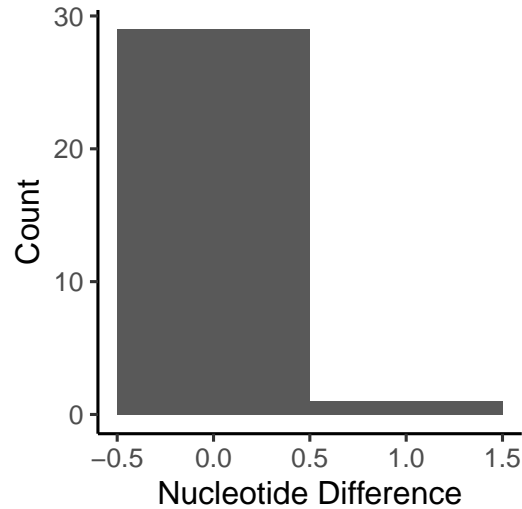
IGHV3-52*01

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



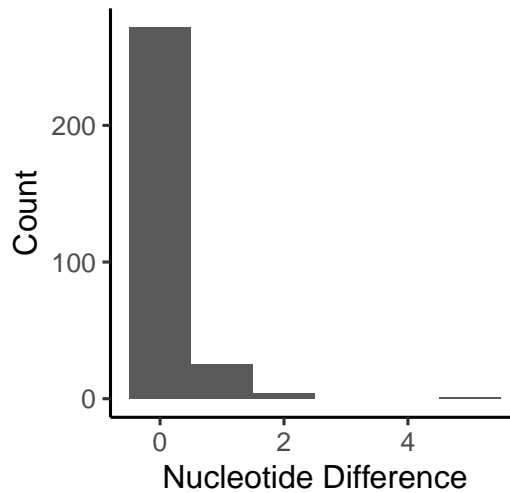
IGHV3-43*01

30 sequences assigned
29 (96.7%) exact matches, in which:
29 unique CDR3
6 unique J



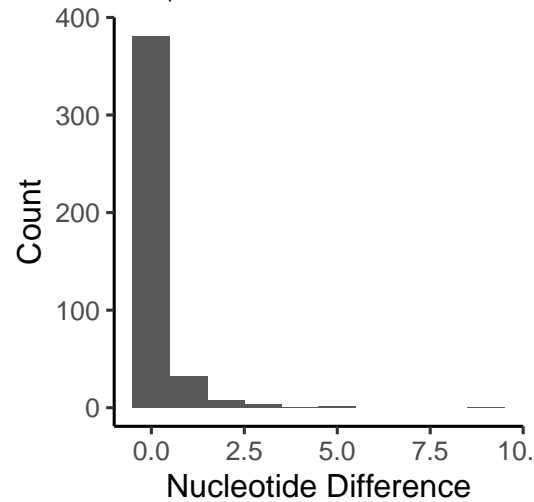
IGHV3-49*03

302 sequences assigned
272 (90.1%) exact matches, in which:
264 unique CDR3
6 unique J



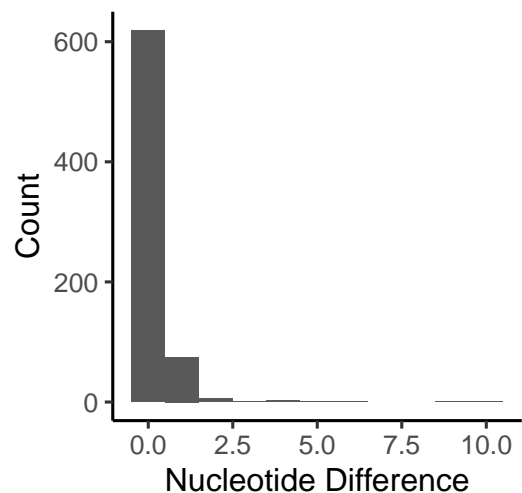
IGHV3-53*02

429 sequences assigned
381 (88.8%) exact matches, in which:
364 unique CDR3
7 unique J



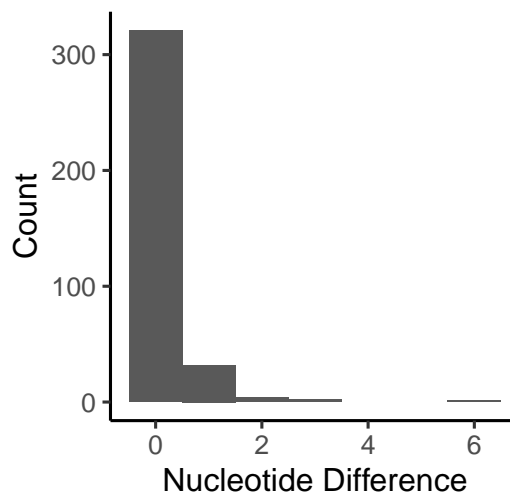
IGHV3-48*01

707 sequences assigned
619 (87.6%) exact matches, in which:
595 unique CDR3
6 unique J



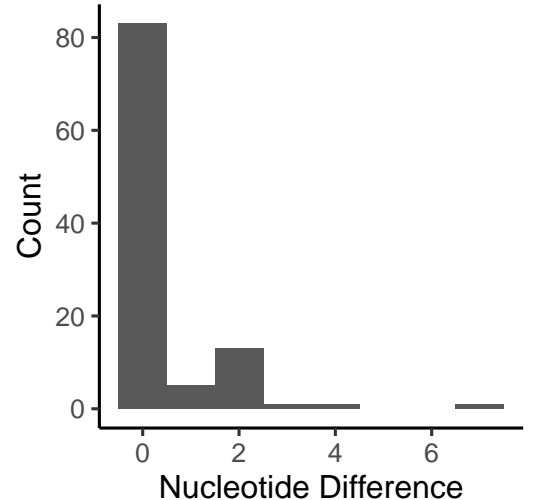
IGHV3-49*04

360 sequences assigned
321 (89.2%) exact matches, in which:
308 unique CDR3
6 unique J



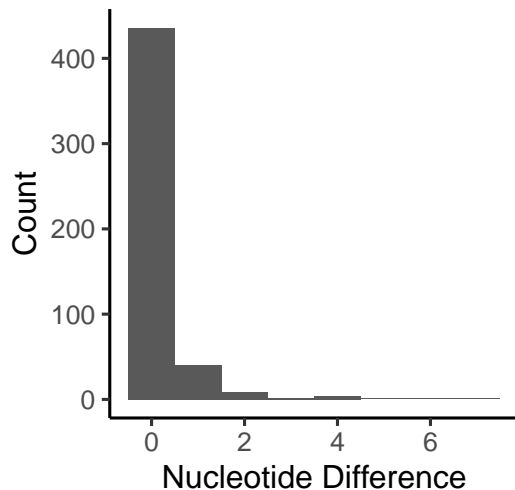
IGHV3-64*01

104 sequences assigned
83 (79.8%) exact matches, in which:
81 unique CDR3
6 unique J



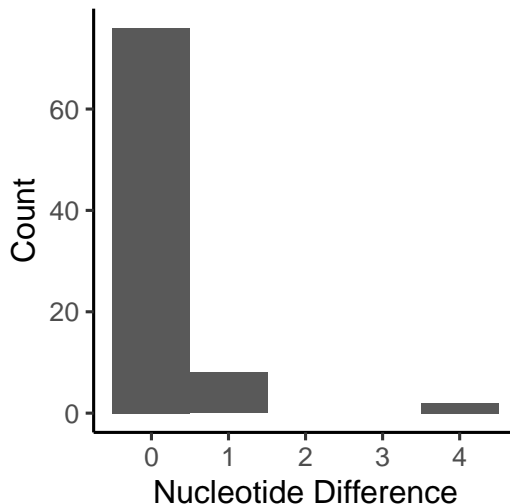
IGHV3-66*02

494 sequences assigned
436 (88.3%) exact matches, in which:
405 unique CDR3
7 unique J



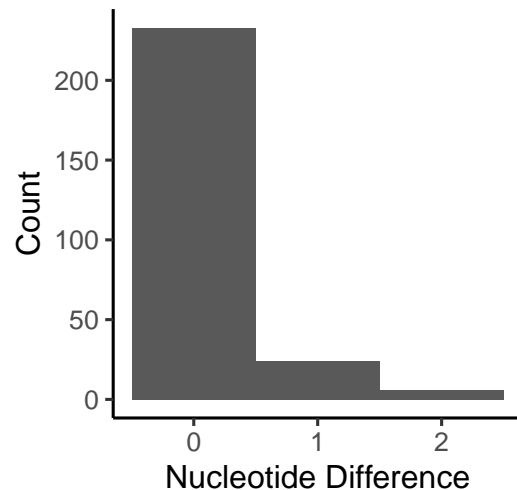
IGHV3-73*02

86 sequences assigned
76 (88.4%) exact matches, in which:
72 unique CDR3
6 unique J



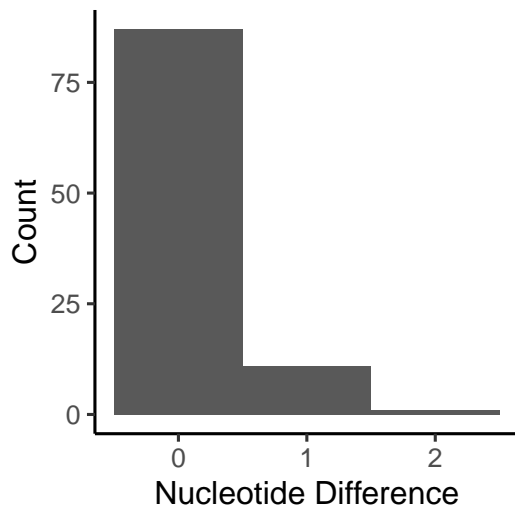
IGHV3-64D*06

263 sequences assigned
233 (88.6%) exact matches, in which:
221 unique CDR3
6 unique J



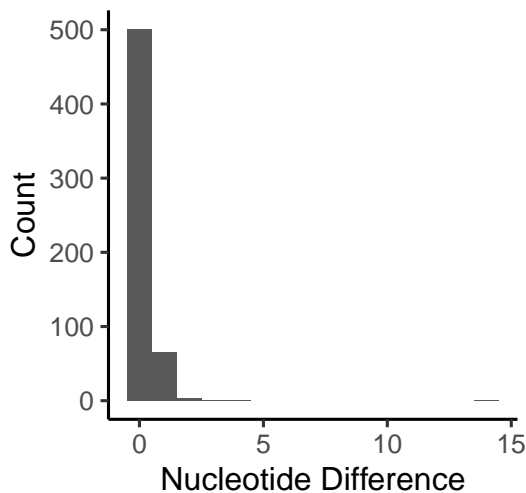
IGHV3-72*01

99 sequences assigned
87 (87.9%) exact matches, in which:
80 unique CDR3
7 unique J



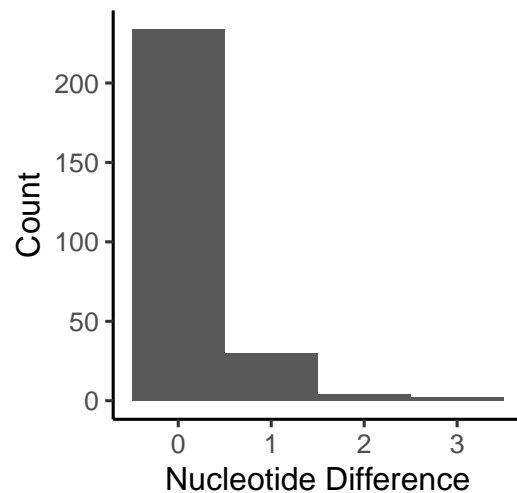
IGHV3-74*01

573 sequences assigned
501 (87.4%) exact matches, in which:
476 unique CDR3
7 unique J



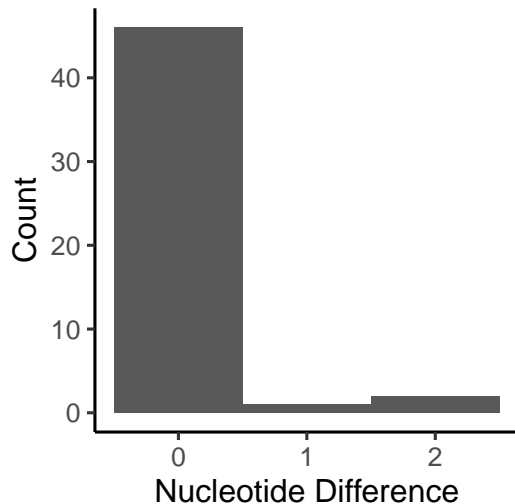
IGHV3-64D*09

270 sequences assigned
234 (86.7%) exact matches, in which:
218 unique CDR3
6 unique J



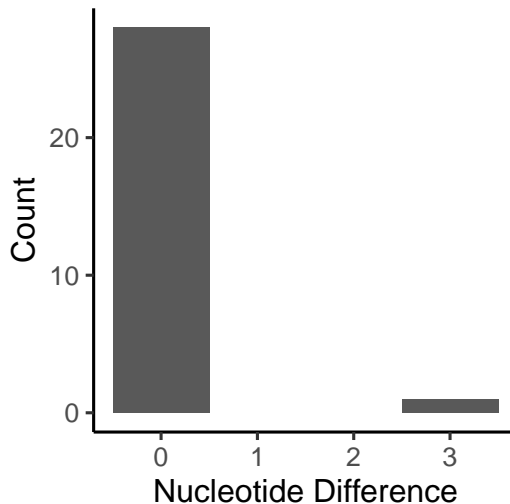
IGHV3-73*01

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



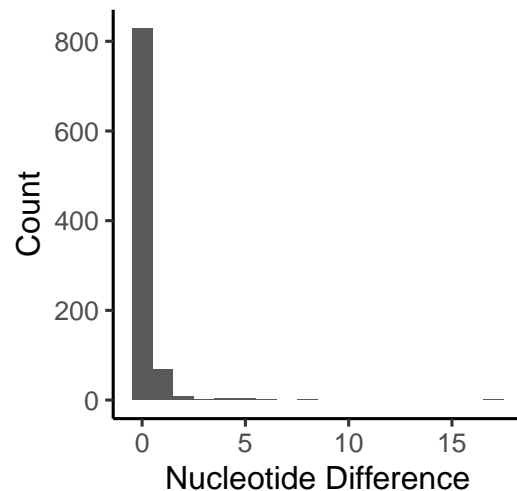
IGHV3-43D*04

29 sequences assigned
28 (96.6%) exact matches, in which:
27 unique CDR3
3 unique J



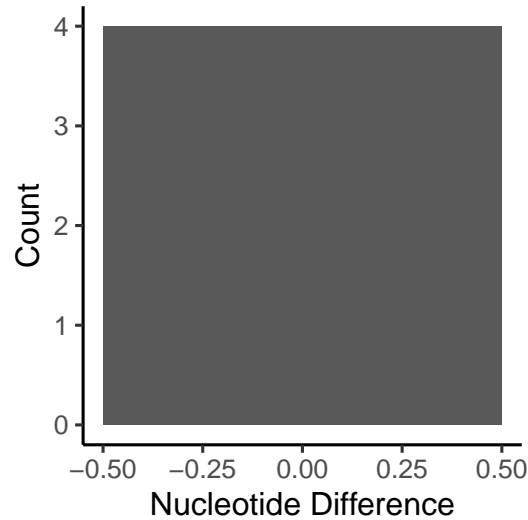
IGHV4-4*02

915 sequences assigned
829 (90.6%) exact matches, in which:
798 unique CDR3
7 unique J



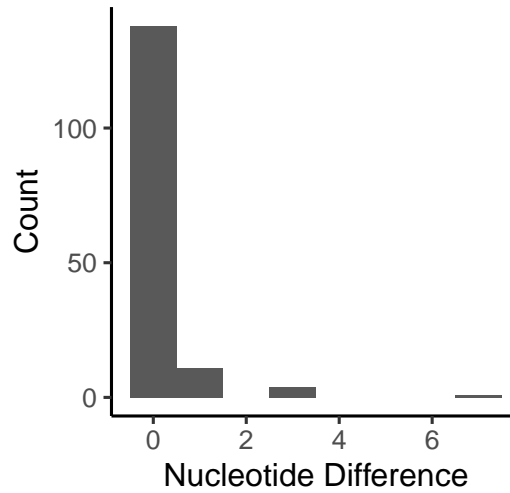
IGHV4-28*01

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



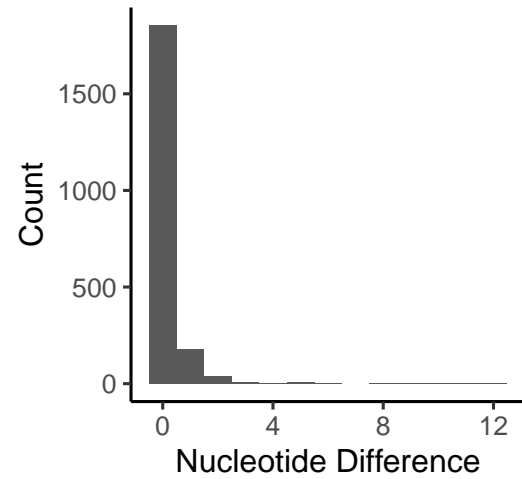
IGHV4-31*01

154 sequences assigned
138 (89.6%) exact matches, in which:
134 unique CDR3
5 unique J



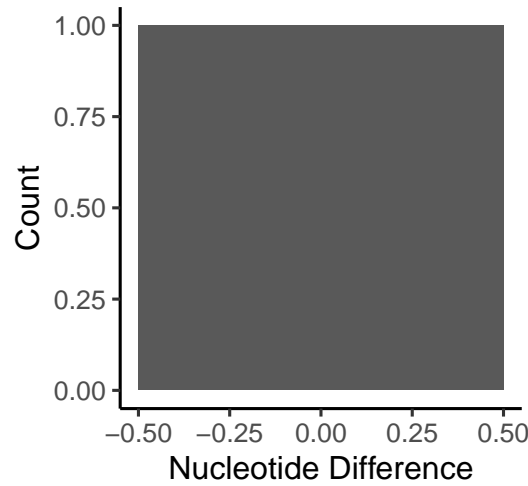
IGHV4-39*01

2096 sequences assigned
1854 (88.5%) exact matches, in which:
1713 unique CDR3
7 unique J



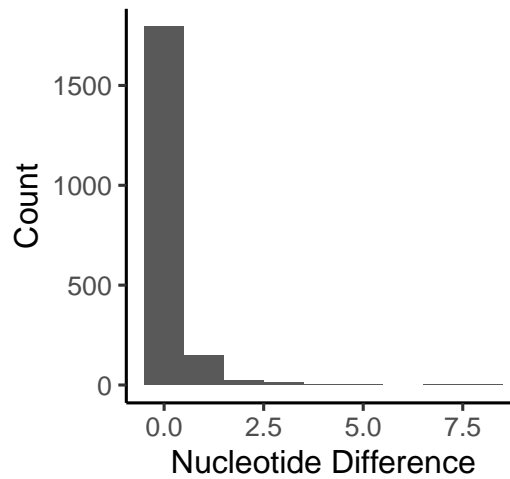
IGHV4-28*02

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



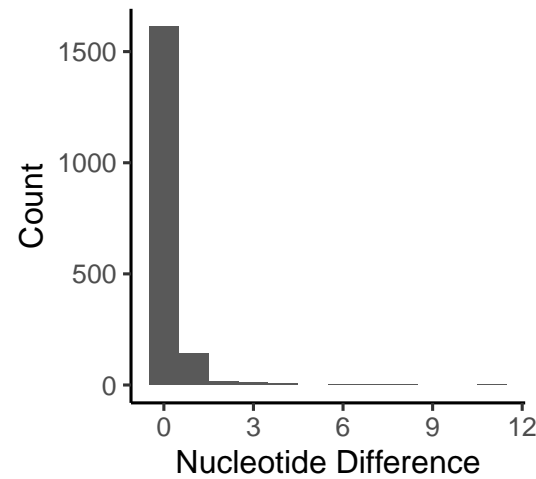
IGHV4-34*01

1984 sequences assigned
1794 (90.4%) exact matches, in which:
1664 unique CDR3
7 unique J



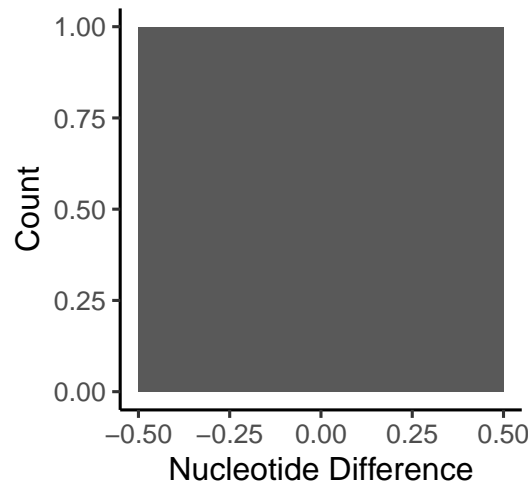
IGHV4-59*01

1796 sequences assigned
1612 (89.8%) exact matches, in which:
1550 unique CDR3
7 unique J



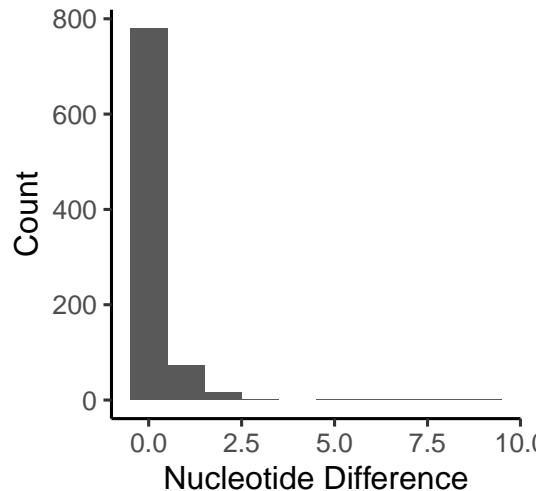
IGHV4-30-4*01

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



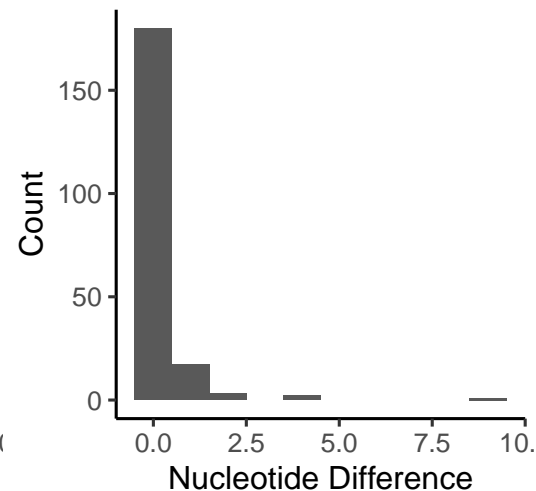
IGHV4-38-2*02_A70G

877 sequences assigned
780 (88.9%) exact matches, in which:
725 unique CDR3
7 unique J



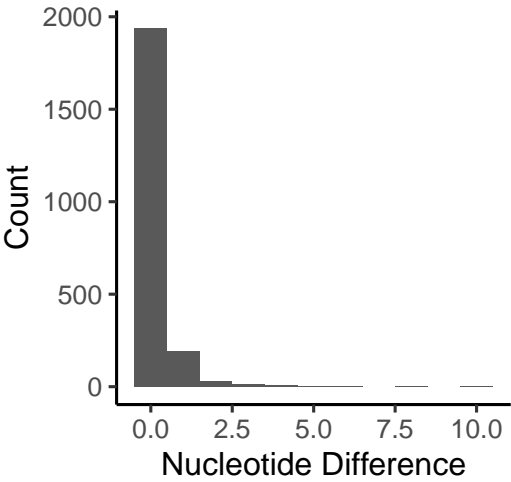
IGHV4-61*01

203 sequences assigned
180 (88.7%) exact matches, in which:
171 unique CDR3
6 unique J



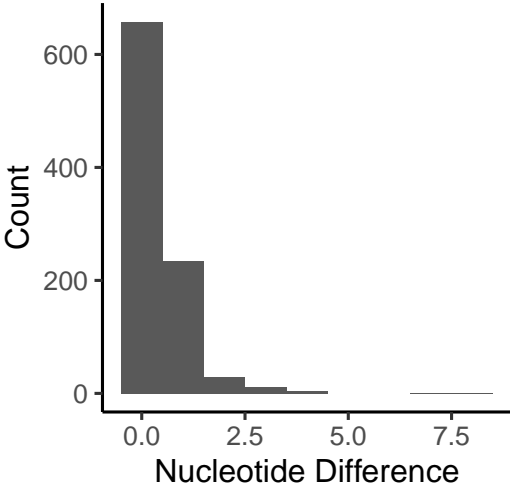
IGHV4–61*02

2193 sequences assigned
1937 (88.3%) exact matches, in which:
1824 unique CDR3
7 unique J



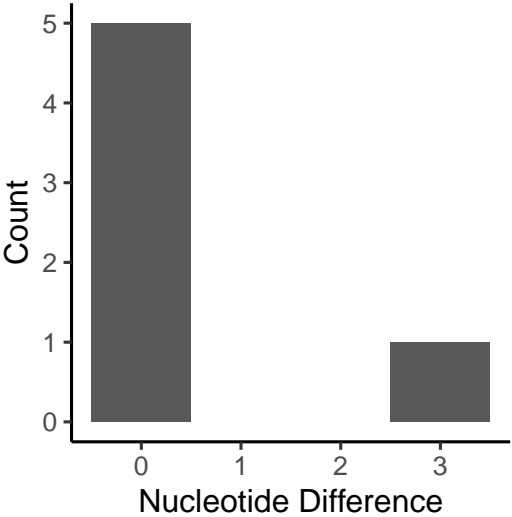
IGHV5–51*01

940 sequences assigned
658 (70%) exact matches, in which:
632 unique CDR3
7 unique J



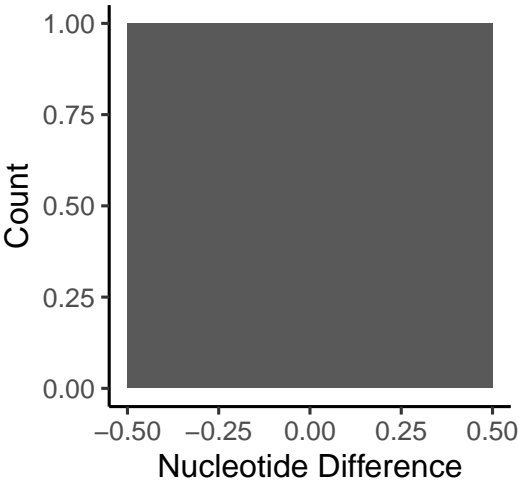
IGHV7–4–1*01

6 sequences assigned
5 (83.3%) exact matches, in which:
4 unique CDR3
4 unique J



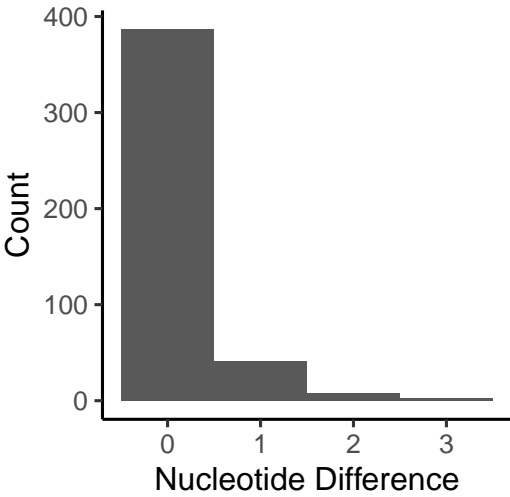
IGHV1/OR15–4*01

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



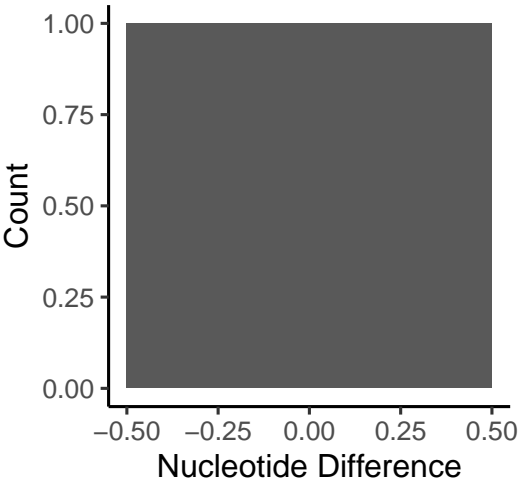
IGHV5–51*03

439 sequences assigned
387 (88.2%) exact matches, in which:
365 unique CDR3
6 unique J



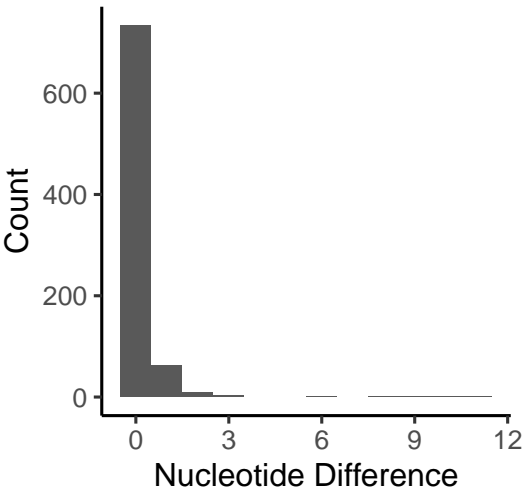
IGHV7–40*03

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



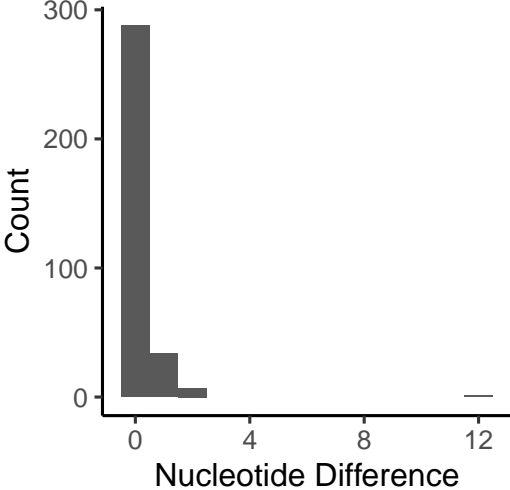
IGHV5–10–1*03

813 sequences assigned
734 (90.3%) exact matches, in which:
696 unique CDR3
7 unique J

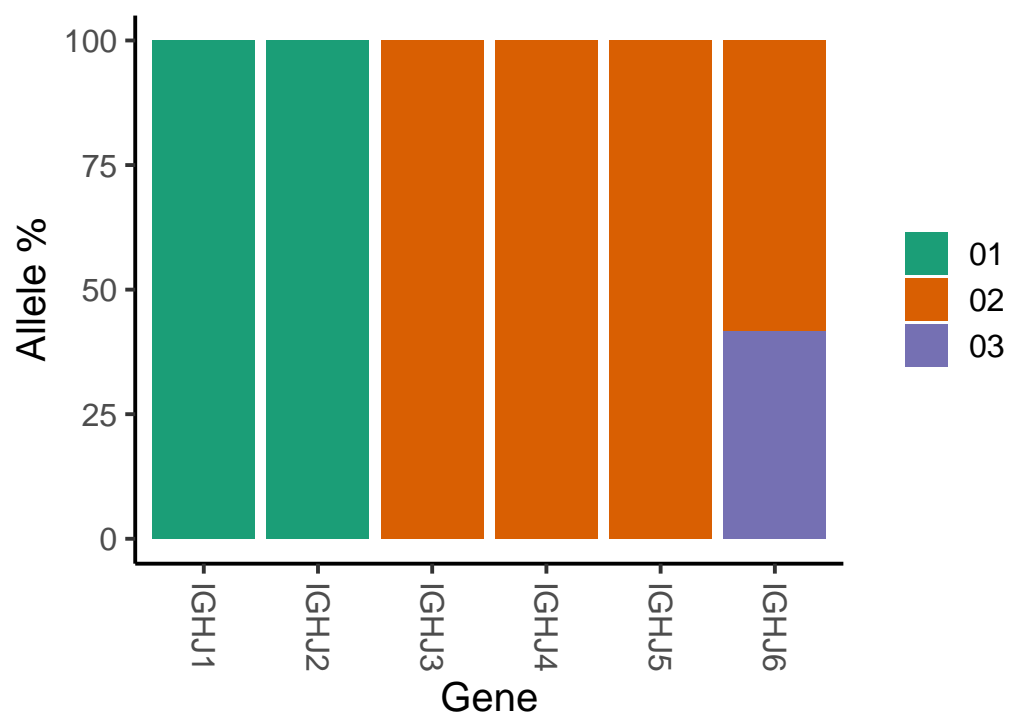


IGHV6–1*01

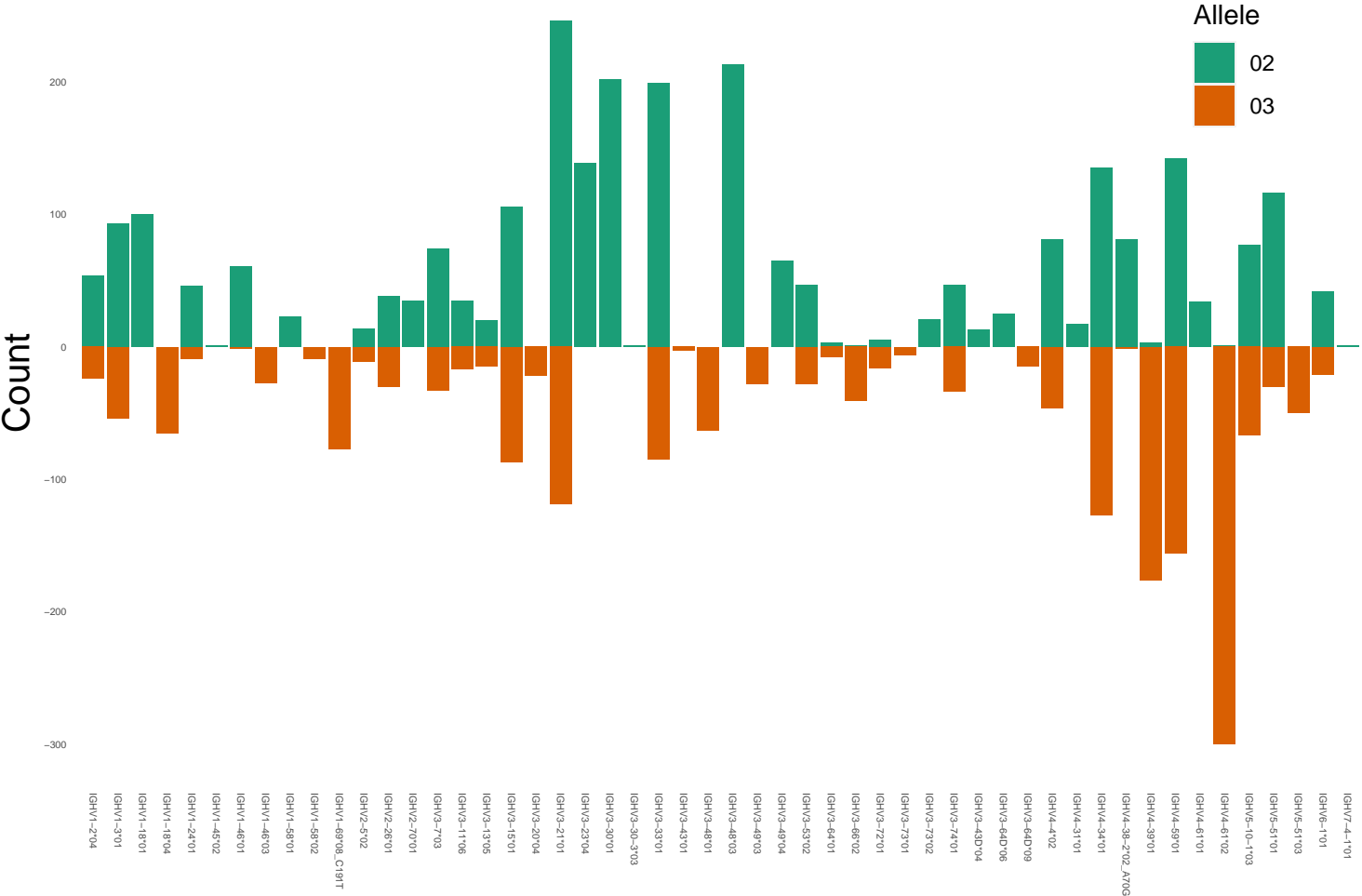
331 sequences assigned
288 (87%) exact matches, in which:
271 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.