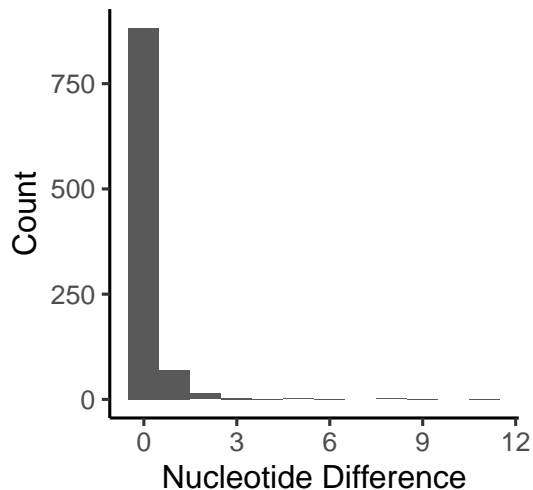


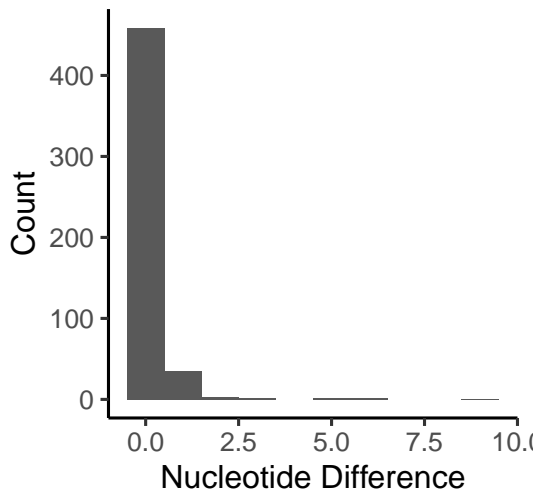
IGHV1-2*04

979 sequences assigned
883 (90.2%) exact matches, in which:
846 unique CDR3
7 unique J



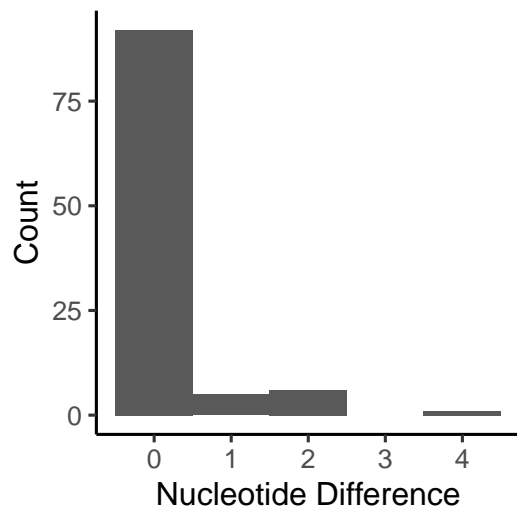
IGHV1-24*01

504 sequences assigned
459 (91.1%) exact matches, in which:
446 unique CDR3
7 unique J



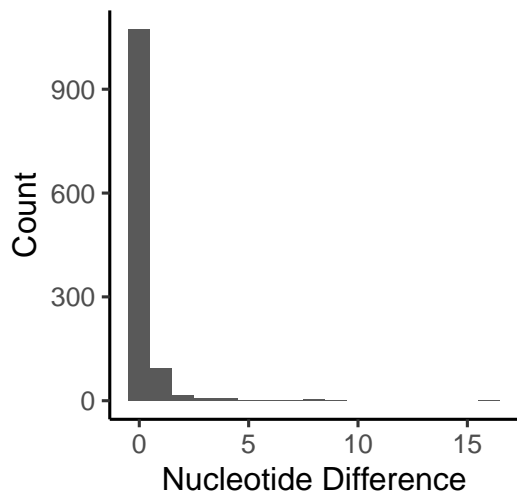
IGHV1-58*01

105 sequences assigned
92 (87.6%) exact matches, in which:
89 unique CDR3
5 unique J



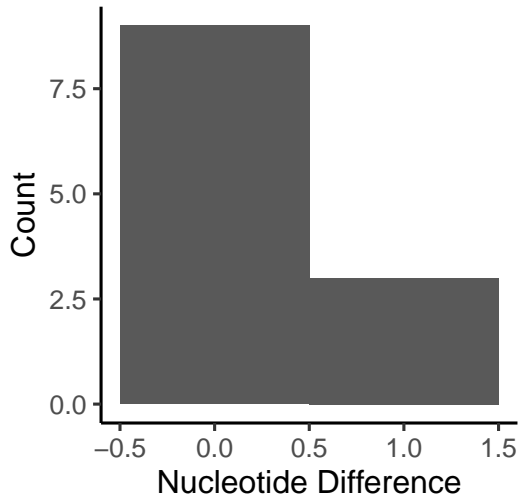
IGHV1-3*01

1209 sequences assigned
1074 (88.8%) exact matches, in which:
1034 unique CDR3
7 unique J



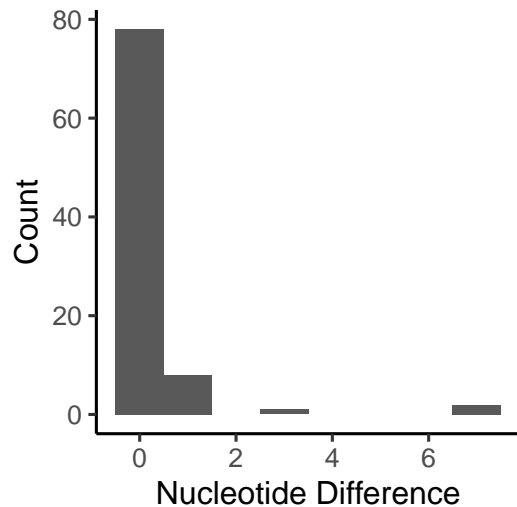
IGHV1-45*02

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



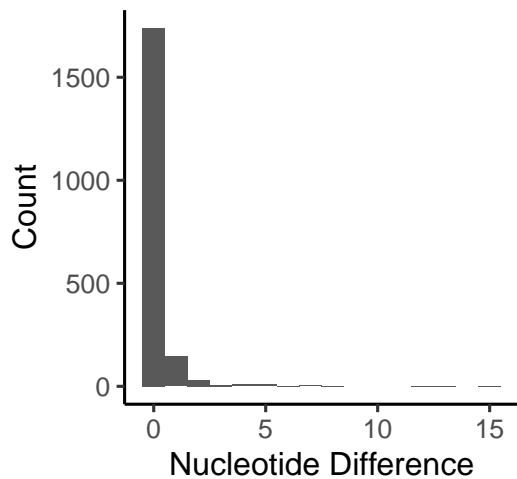
IGHV1-58*02

89 sequences assigned
78 (87.6%) exact matches, in which:
75 unique CDR3
5 unique J



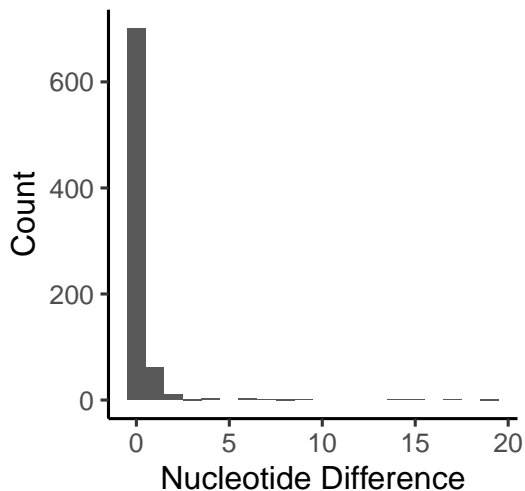
IGHV1-18*01

1949 sequences assigned
1739 (89.2%) exact matches, in which:
1674 unique CDR3
7 unique J



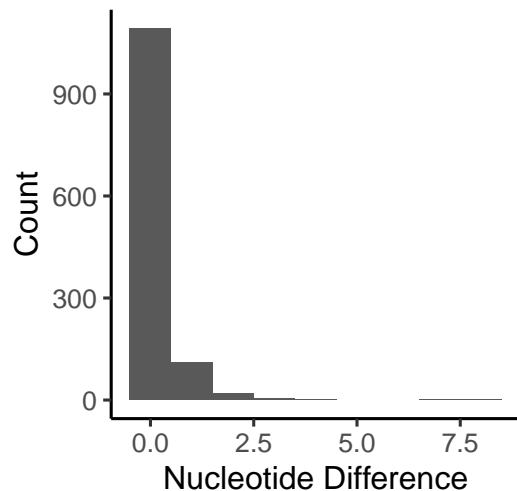
IGHV1-46*03

791 sequences assigned
701 (88.6%) exact matches, in which:
675 unique CDR3
7 unique J



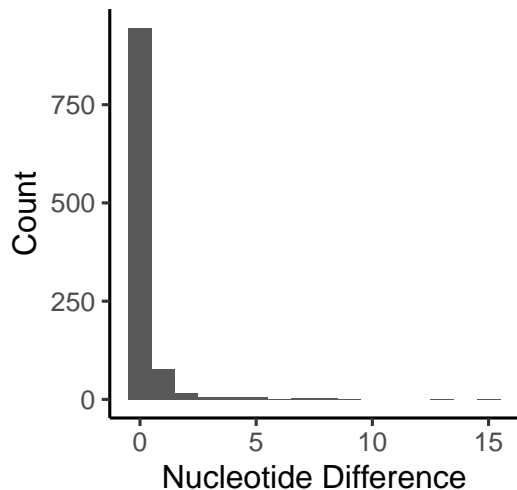
IGHV1-69*08_C191T

1232 sequences assigned
1093 (88.7%) exact matches, in which:
1040 unique CDR3
6 unique J



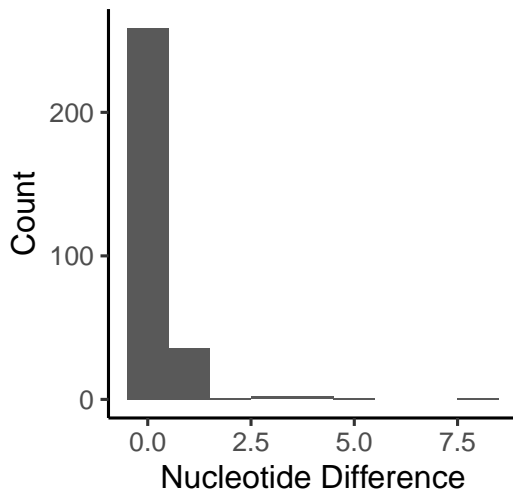
IGHV2-5*02

1071 sequences assigned
946 (88.3%) exact matches, in which:
909 unique CDR3
7 unique J



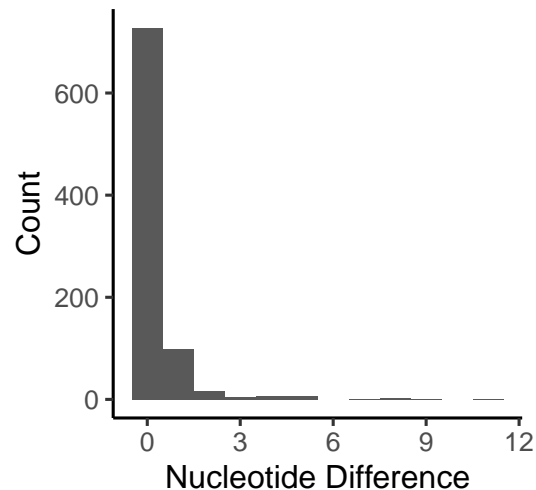
IGHV2-70*15

302 sequences assigned
259 (85.8%) exact matches, in which:
255 unique CDR3
6 unique J



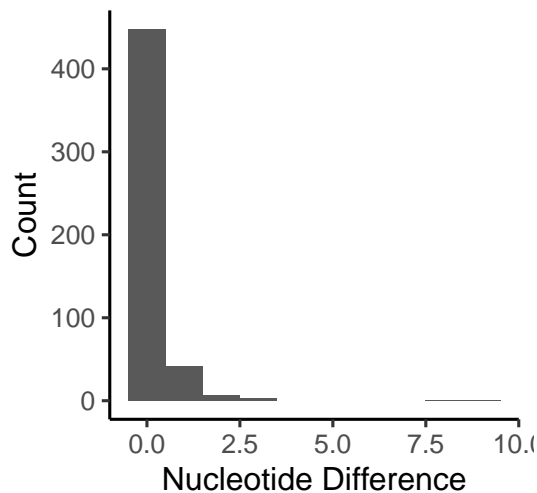
IGHV3-11*05

868 sequences assigned
728 (83.9%) exact matches, in which:
697 unique CDR3
6 unique J



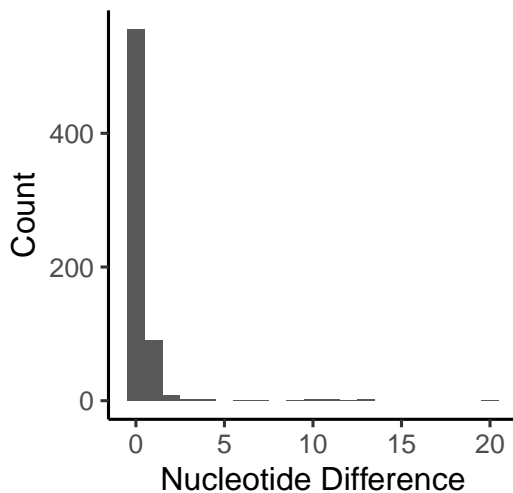
IGHV2-26*01

501 sequences assigned
448 (89.4%) exact matches, in which:
436 unique CDR3
7 unique J



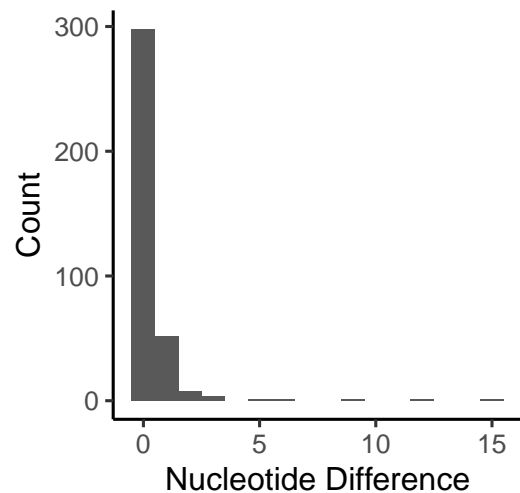
IGHV3-7*03

670 sequences assigned
556 (83%) exact matches, in which:
533 unique CDR3
7 unique J



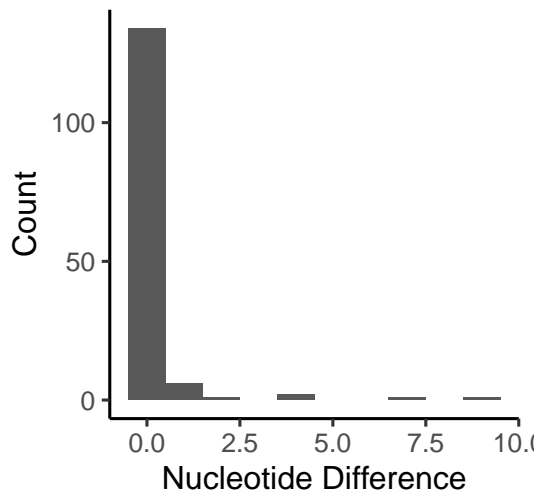
IGHV3-11*06

367 sequences assigned
298 (81.2%) exact matches, in which:
283 unique CDR3
6 unique J



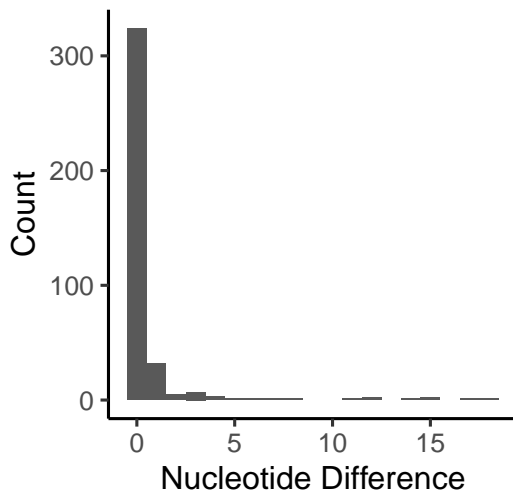
IGHV2-70*01

146 sequences assigned
134 (91.8%) exact matches, in which:
126 unique CDR3
7 unique J



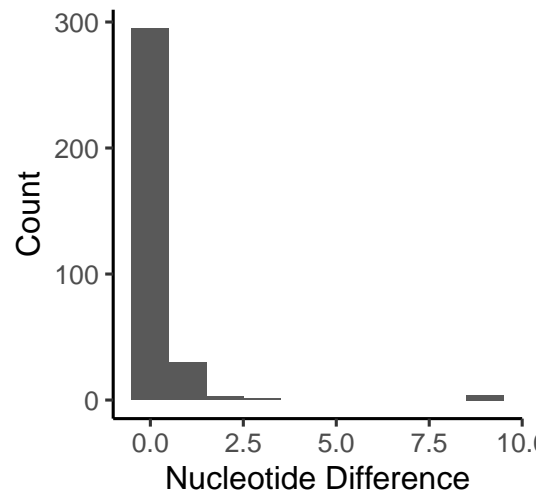
IGHV3-7*04

384 sequences assigned
324 (84.4%) exact matches, in which:
312 unique CDR3
7 unique J



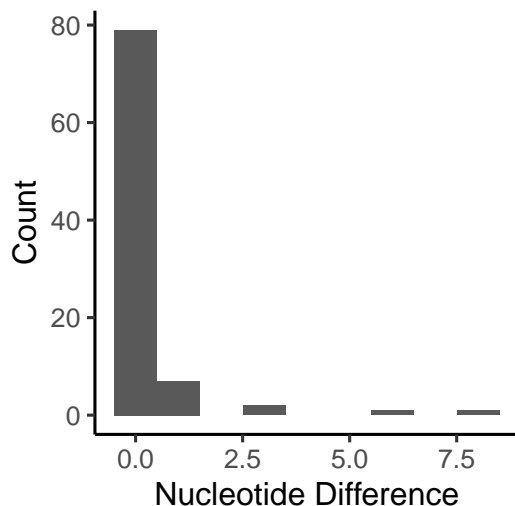
IGHV3-13*04

333 sequences assigned
295 (88.6%) exact matches, in which:
275 unique CDR3
5 unique J



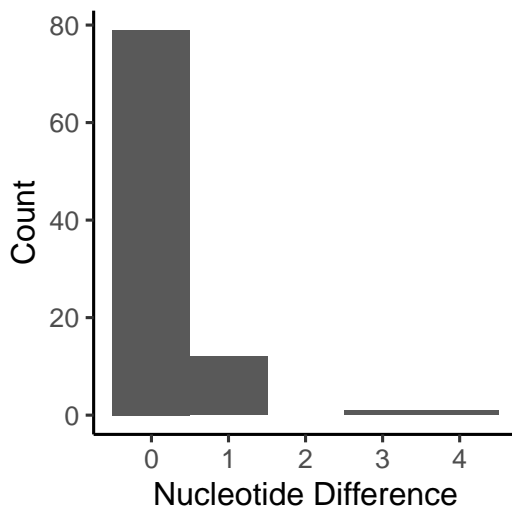
IGHV3-13*05

90 sequences assigned
79 (87.8%) exact matches, in which:
72 unique CDR3
5 unique J



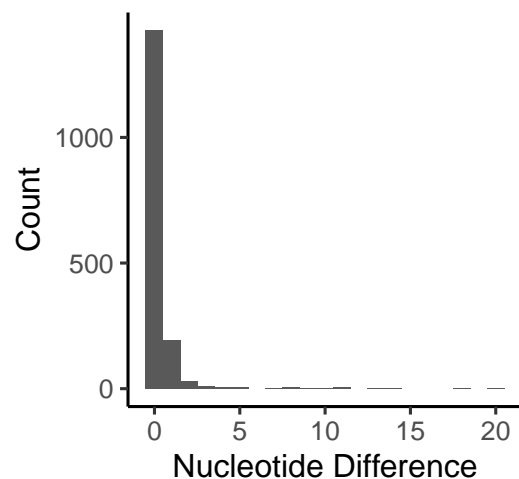
IGHV3-20*01

93 sequences assigned
79 (84.9%) exact matches, in which:
72 unique CDR3
5 unique J



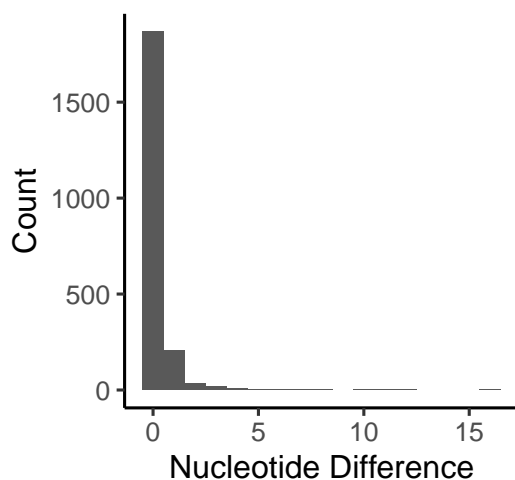
IGHV3-30-3*01

1693 sequences assigned
1426 (84.2%) exact matches, in which:
1350 unique CDR3
7 unique J



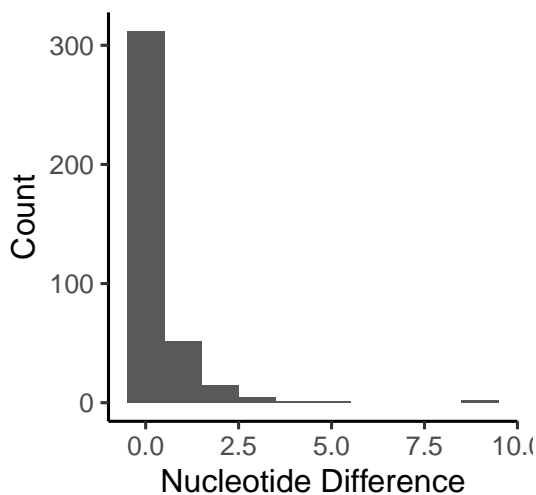
IGHV3-15*01

2152 sequences assigned
1867 (86.8%) exact matches, in which:
1770 unique CDR3
7 unique J



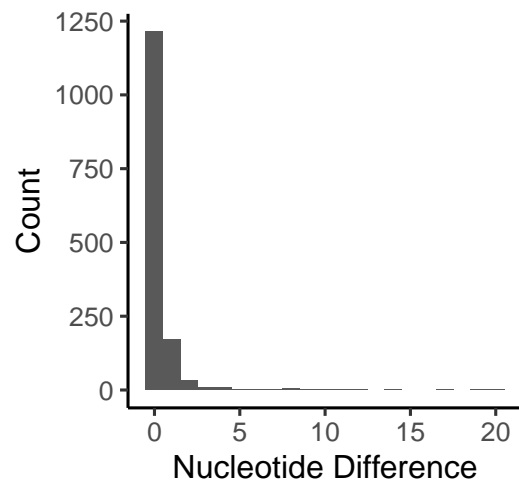
IGHV3-20*04

388 sequences assigned
312 (80.4%) exact matches, in which:
295 unique CDR3
6 unique J



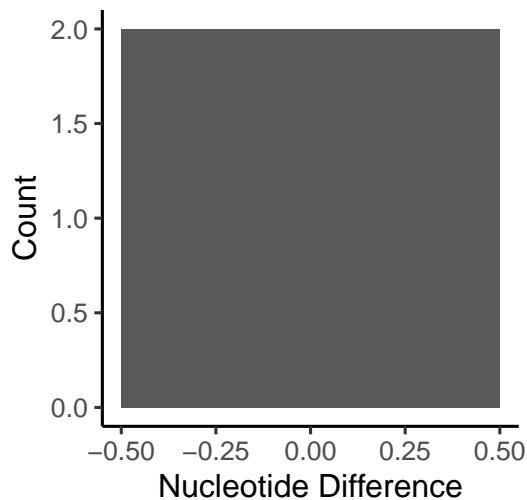
IGHV3-33*01

1460 sequences assigned
1214 (83.2%) exact matches, in which:
1150 unique CDR3
7 unique J



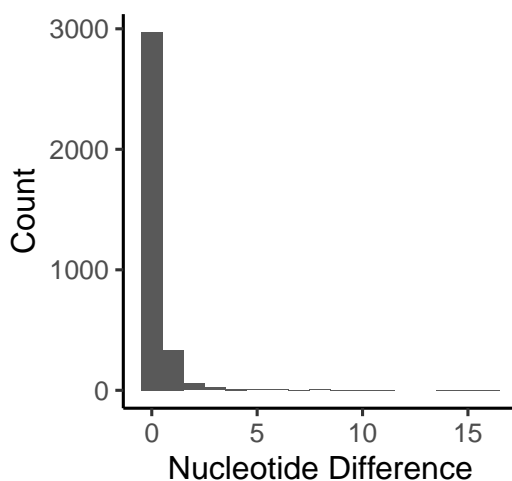
IGHV3-19*01

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



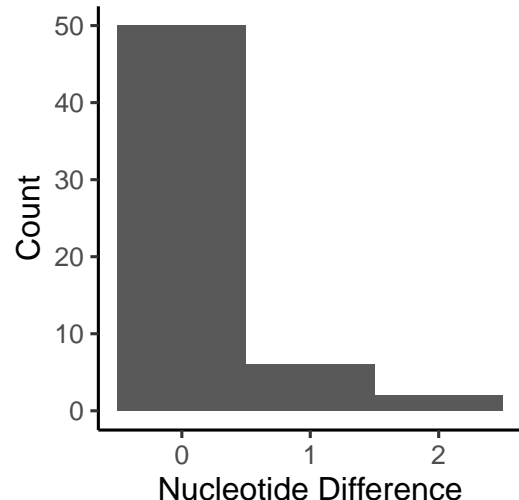
IGHV3-21*01

3435 sequences assigned
2973 (86.6%) exact matches, in which:
2763 unique CDR3
7 unique J



IGHV3-43*01

58 sequences assigned
50 (86.2%) exact matches, in which:
50 unique CDR3
5 unique J



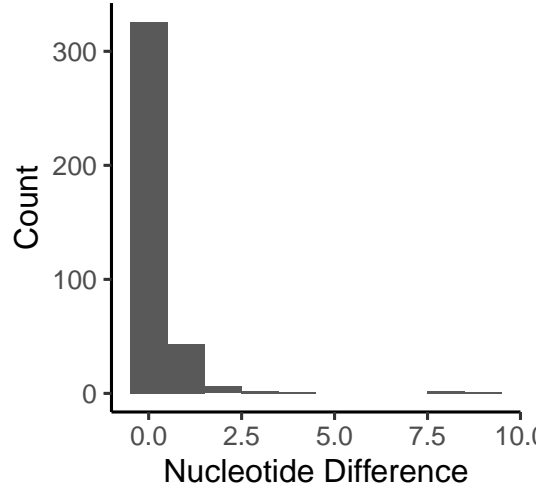
IGHV3-47*02

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



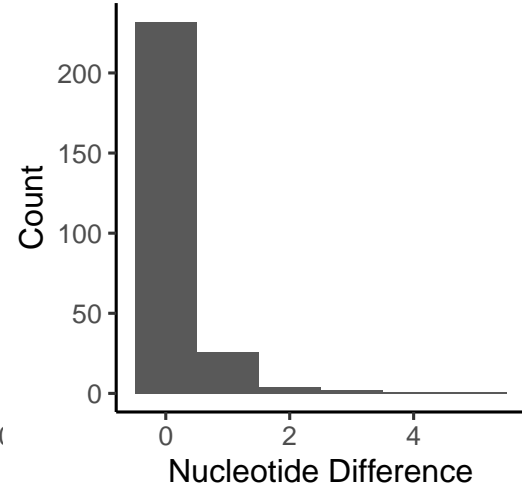
IGHV3-49*03

381 sequences assigned
326 (85.6%) exact matches, in which:
312 unique CDR3
5 unique J



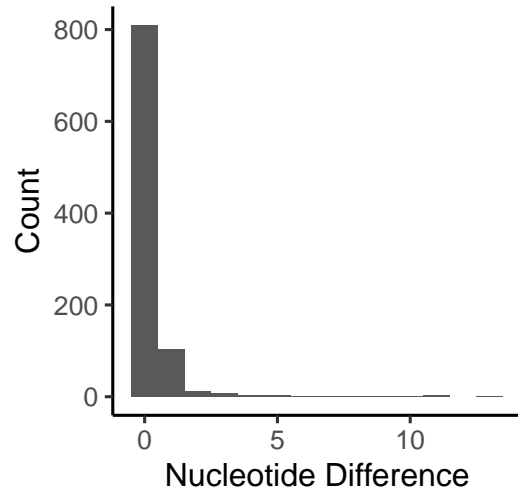
IGHV3-53*04

266 sequences assigned
232 (87.2%) exact matches, in which:
220 unique CDR3
6 unique J



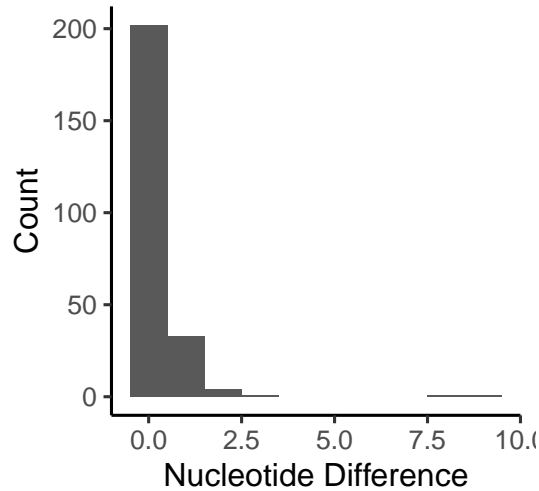
IGHV3-48*01

950 sequences assigned
810 (85.3%) exact matches, in which:
779 unique CDR3
6 unique J



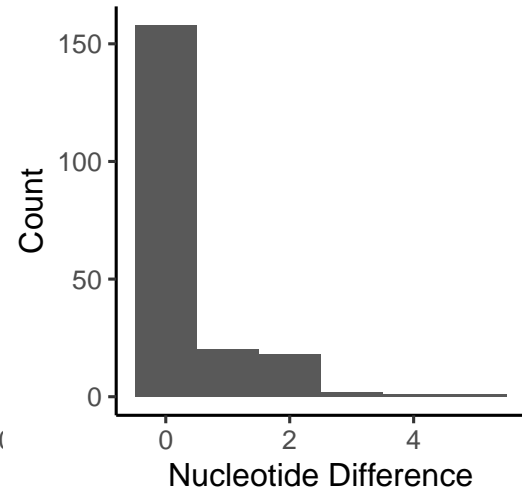
IGHV3-49*05

243 sequences assigned
202 (83.1%) exact matches, in which:
187 unique CDR3
6 unique J



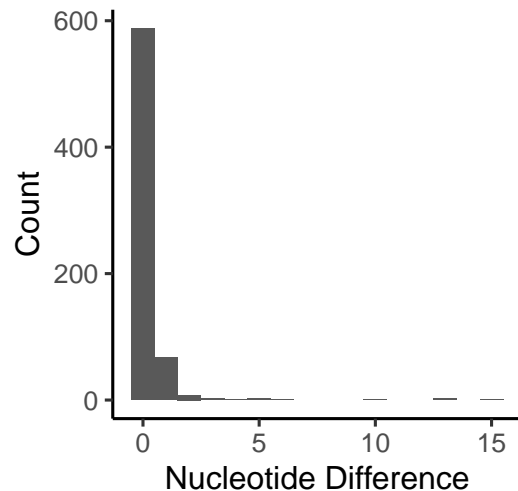
IGHV3-64*01

200 sequences assigned
158 (79%) exact matches, in which:
150 unique CDR3
6 unique J



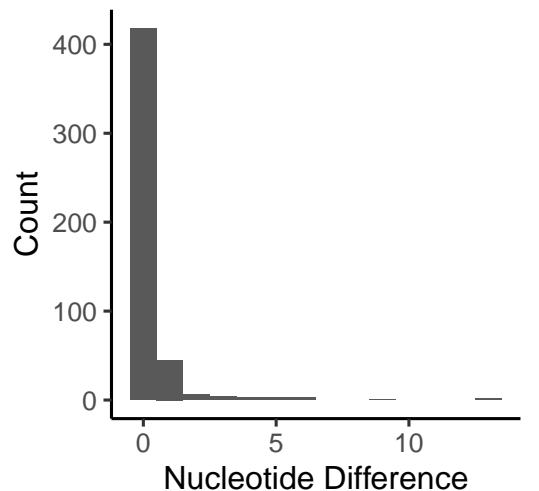
IGHV3-48*02

674 sequences assigned
588 (87.2%) exact matches, in which:
559 unique CDR3
6 unique J



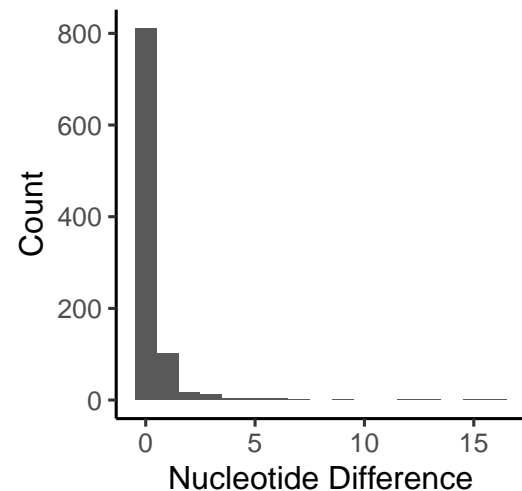
IGHV3-53*01

485 sequences assigned
418 (86.2%) exact matches, in which:
397 unique CDR3
7 unique J



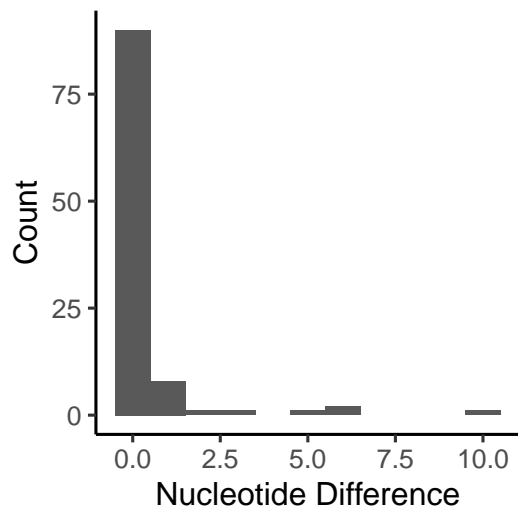
IGHV3-66*01

960 sequences assigned
811 (84.5%) exact matches, in which:
758 unique CDR3
6 unique J



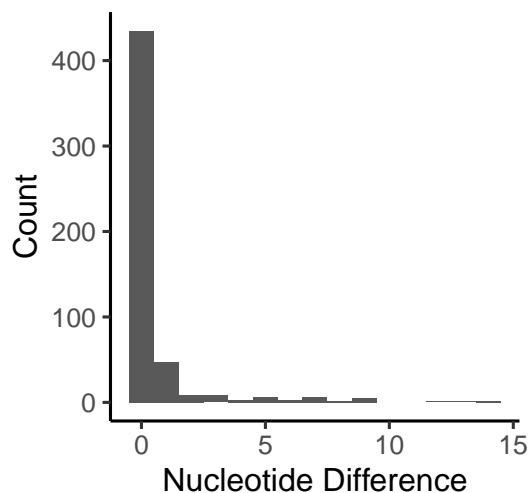
IGHV3-72*01

104 sequences assigned
90 (86.5%) exact matches, in which:
85 unique CDR3
6 unique J



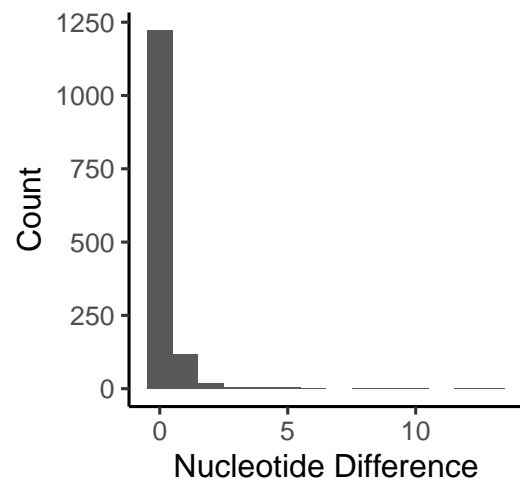
IGHV3-74*01

528 sequences assigned
435 (82.4%) exact matches, in which:
421 unique CDR3
7 unique J



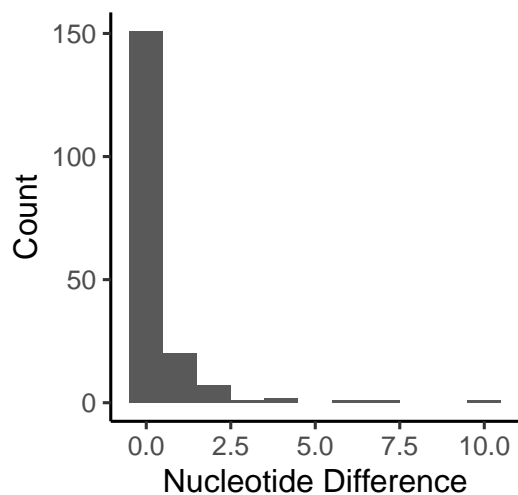
IGHV4-4*02

1379 sequences assigned
1222 (88.6%) exact matches, in which:
1186 unique CDR3
7 unique J



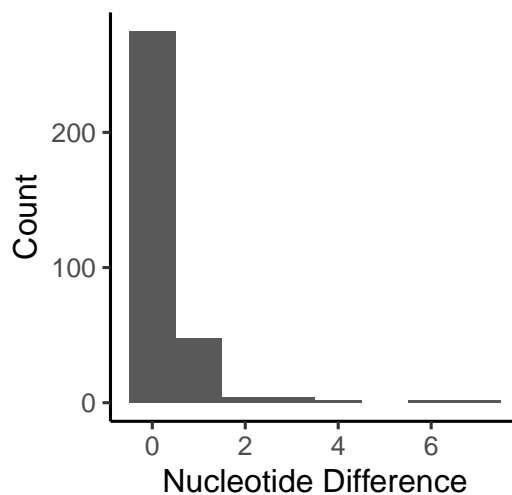
IGHV3-73*01

184 sequences assigned
151 (82.1%) exact matches, in which:
144 unique CDR3
6 unique J



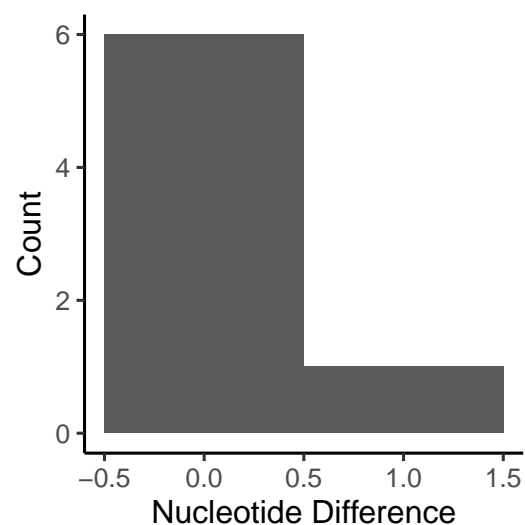
IGHV3-64D*06

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



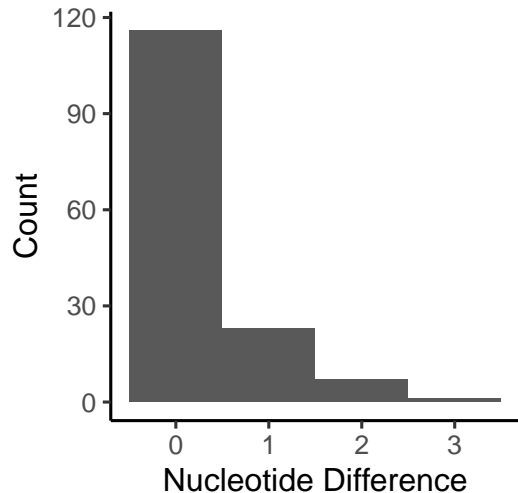
IGHV4-28*01

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J



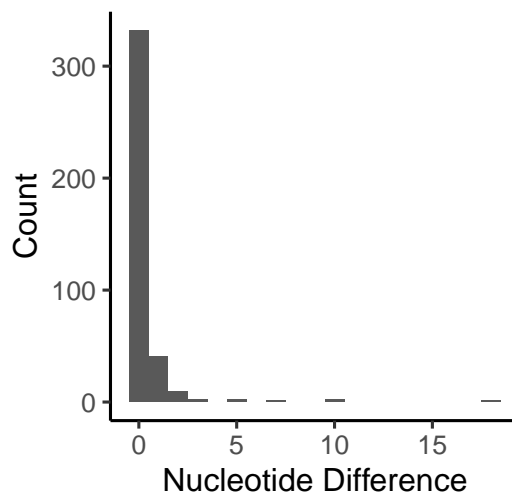
IGHV3-73*02

147 sequences assigned
116 (78.9%) exact matches, in which:
111 unique CDR3
6 unique J



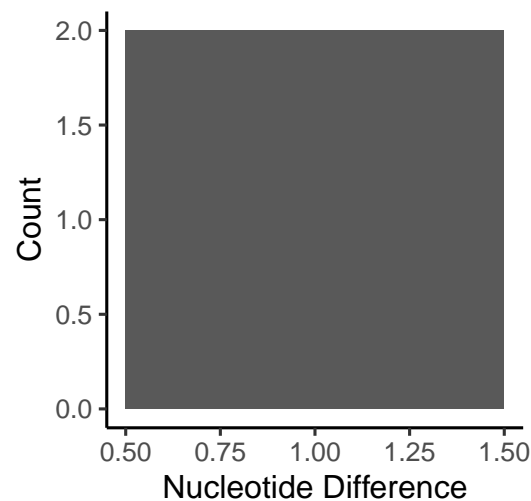
IGHV3-64D*09

391 sequences assigned
332 (84.9%) exact matches, in which:
307 unique CDR3
6 unique J



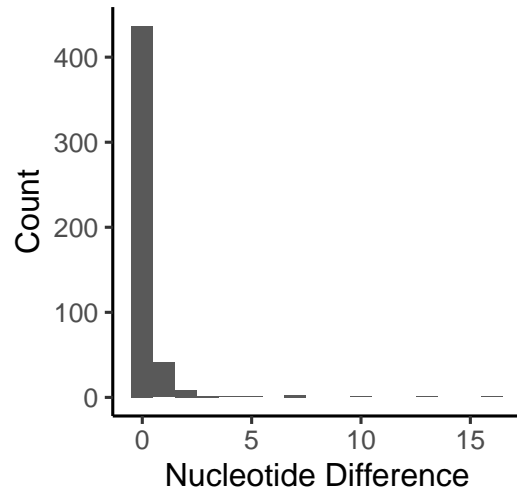
IGHV4-28*04

2 sequences assigned
No exact matches.



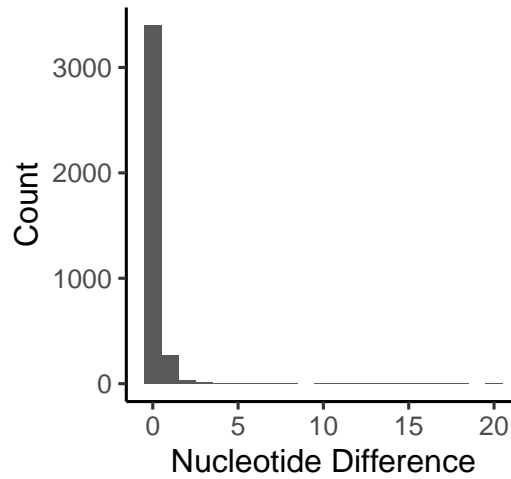
IGHV4-30-4*01

497 sequences assigned
437 (87.9%) exact matches, in which:
426 unique CDR3
6 unique J



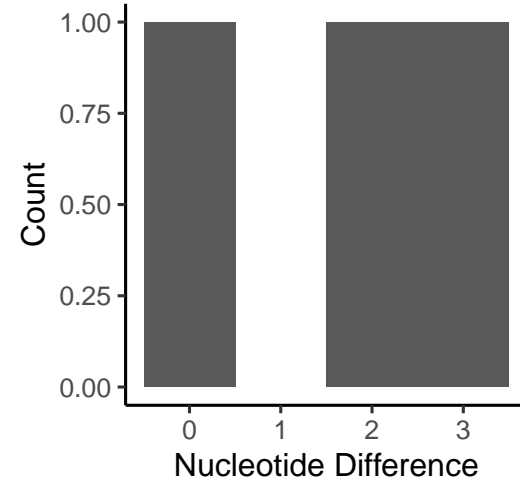
IGHV4-34*01

3783 sequences assigned
3399 (89.8%) exact matches, in which:
3198 unique CDR3
7 unique J



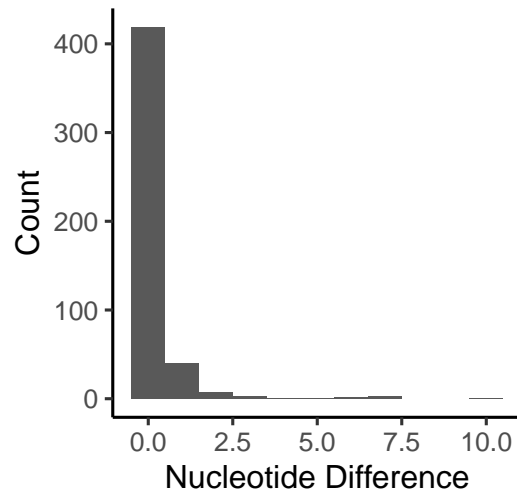
IGHV4-55*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



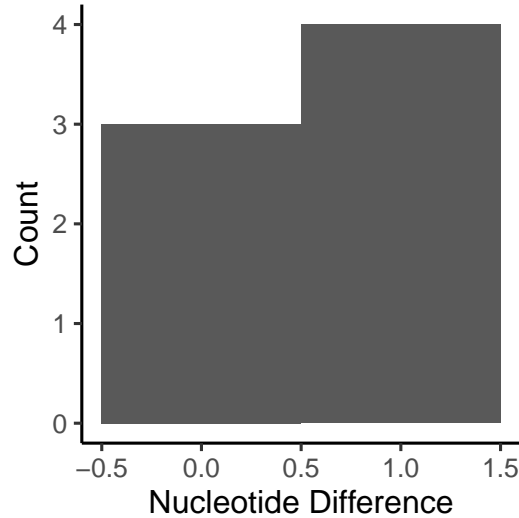
IGHV4-30-2*01

477 sequences assigned
419 (87.8%) exact matches, in which:
400 unique CDR3
6 unique J



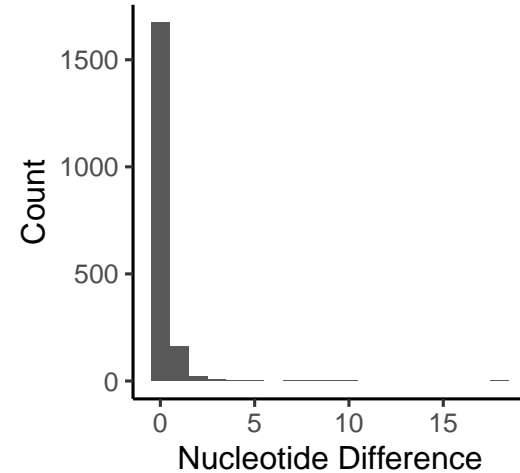
IGHV4-38-2*02

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
1 unique J



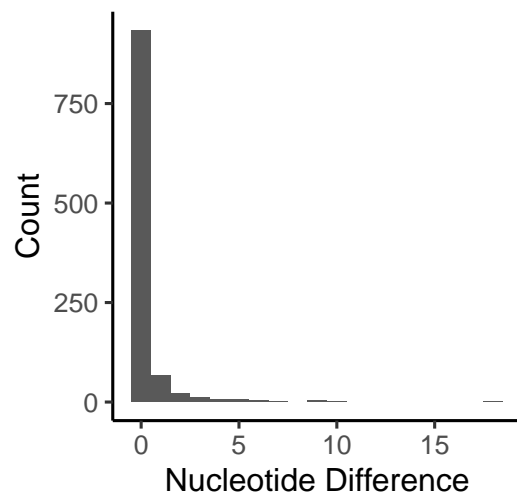
IGHV4-59*01

1883 sequences assigned
1673 (88.8%) exact matches, in which:
1614 unique CDR3
7 unique J



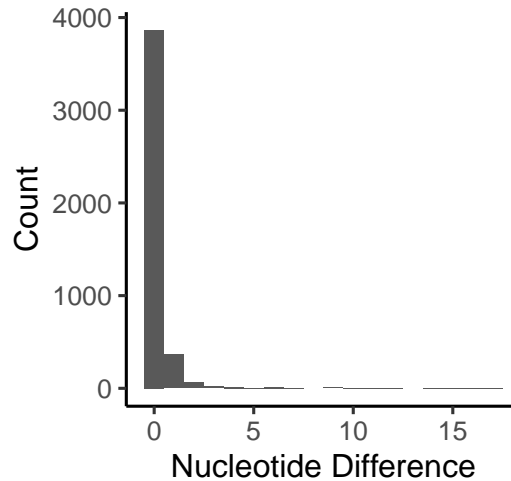
IGHV4-31*03

1054 sequences assigned
934 (88.6%) exact matches, in which:
900 unique CDR3
6 unique J



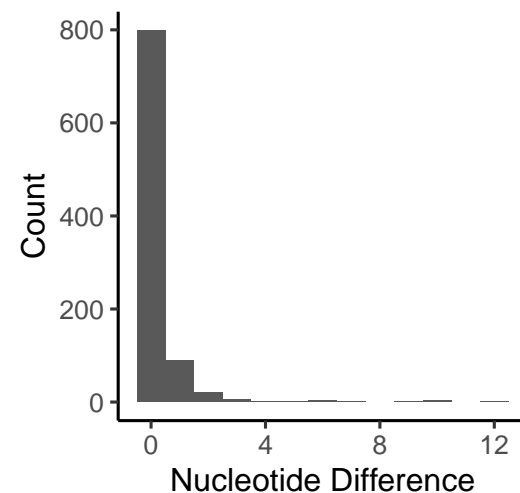
IGHV4-39*01

4380 sequences assigned
3865 (88.2%) exact matches, in which:
3650 unique CDR3
7 unique J



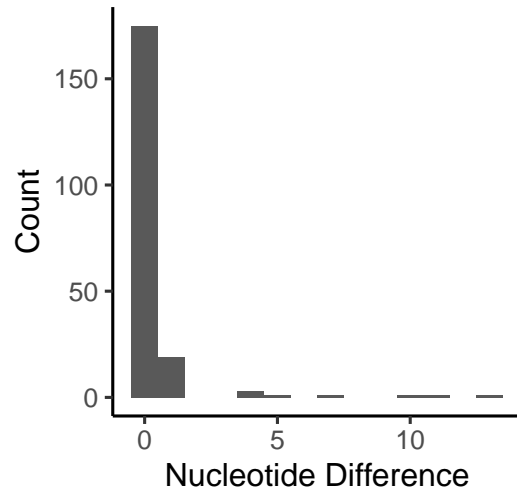
IGHV4-59*08

929 sequences assigned
799 (86%) exact matches, in which:
768 unique CDR3
7 unique J



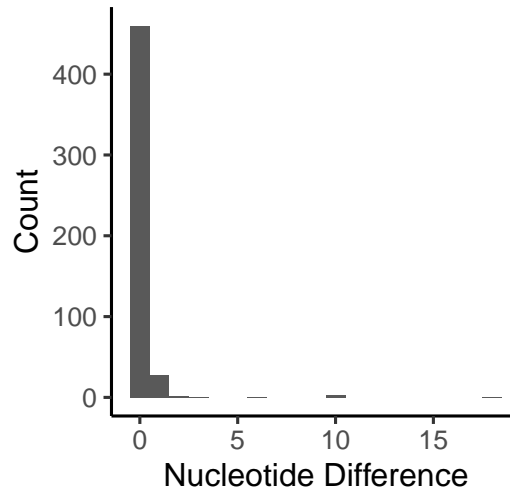
IGHV4–61*01

202 sequences assigned
175 (86.6%) exact matches, in which:
172 unique CDR3
5 unique J



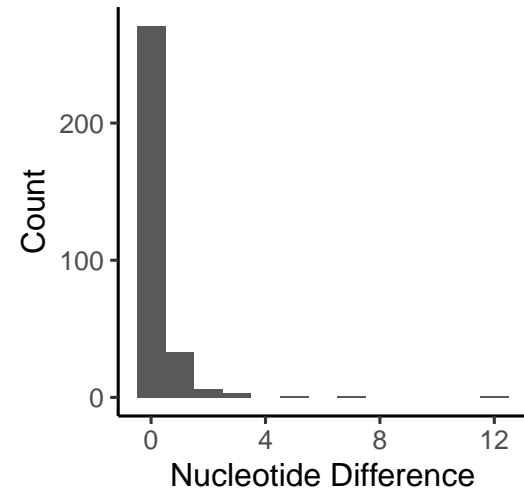
IGHV5–10–1*03

496 sequences assigned
460 (92.7%) exact matches, in which:
448 unique CDR3
7 unique J



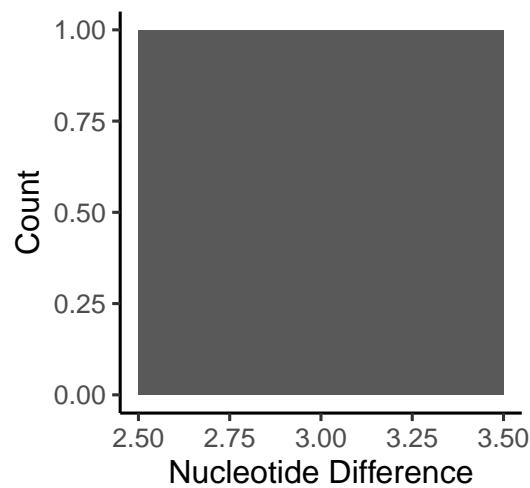
IGHV6–1*01

316 sequences assigned
271 (85.8%) exact matches, in which:
262 unique CDR3
6 unique J



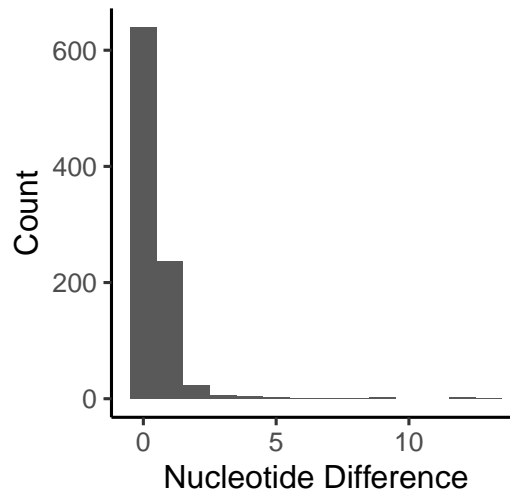
IGHV1/OR15–3*01

1 sequences assigned
No exact matches.



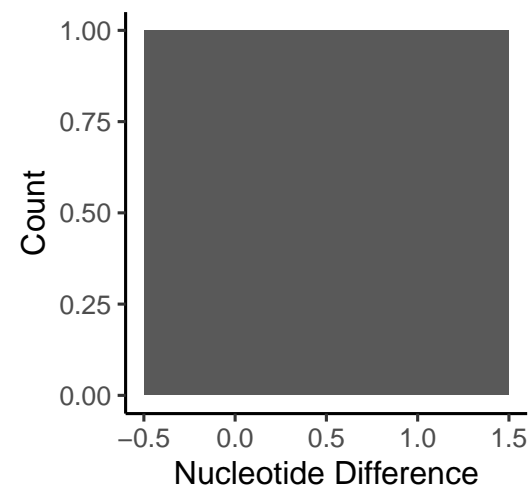
IGHV5–51*01

925 sequences assigned
640 (69.2%) exact matches, in which:
620 unique CDR3
7 unique J



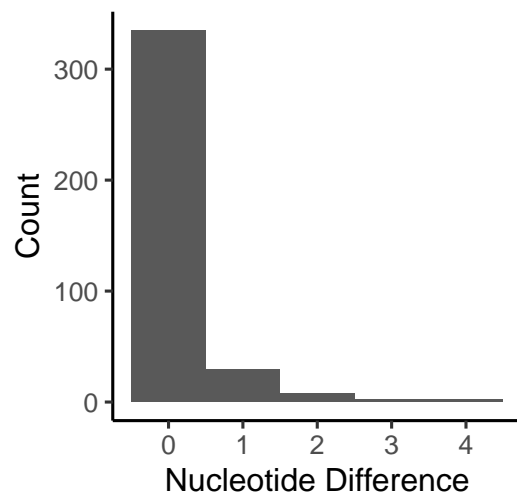
IGHV3/OR16–6*02

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



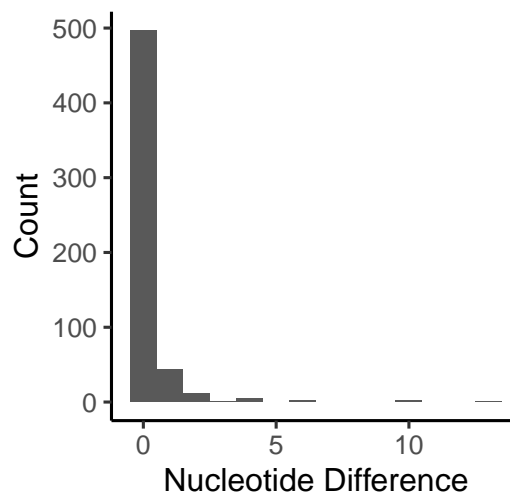
IGHV5–10–1*01

376 sequences assigned
335 (89.1%) exact matches, in which:
325 unique CDR3
6 unique J



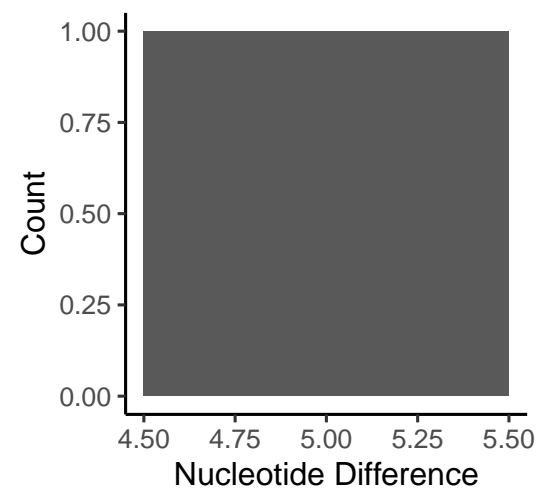
IGHV5–51*03

565 sequences assigned
497 (88%) exact matches, in which:
477 unique CDR3
6 unique J



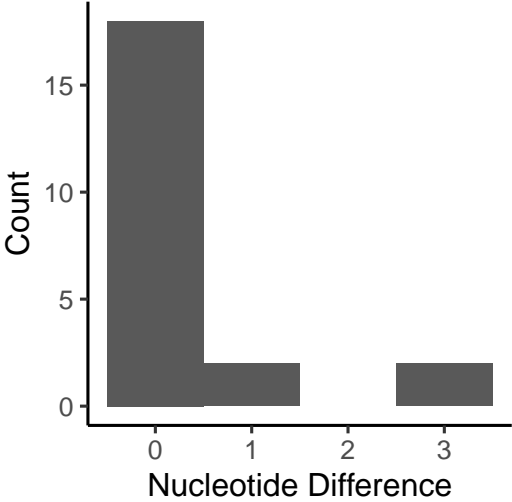
IGHV3/OR16–15*02

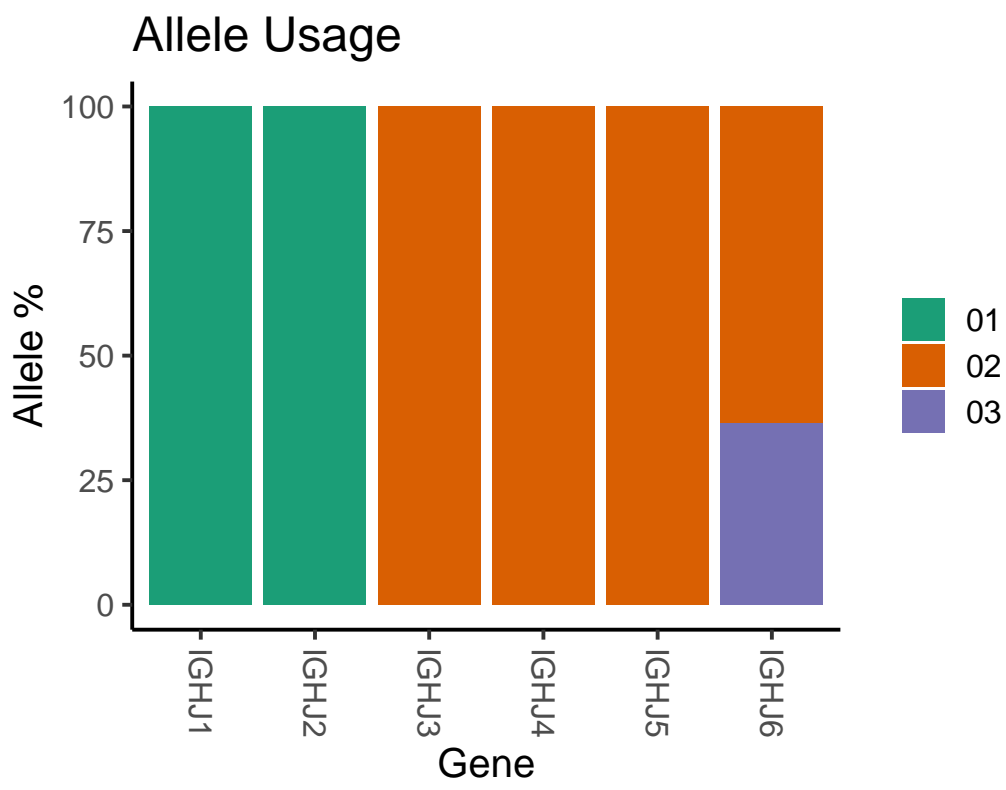
1 sequences assigned
No exact matches.



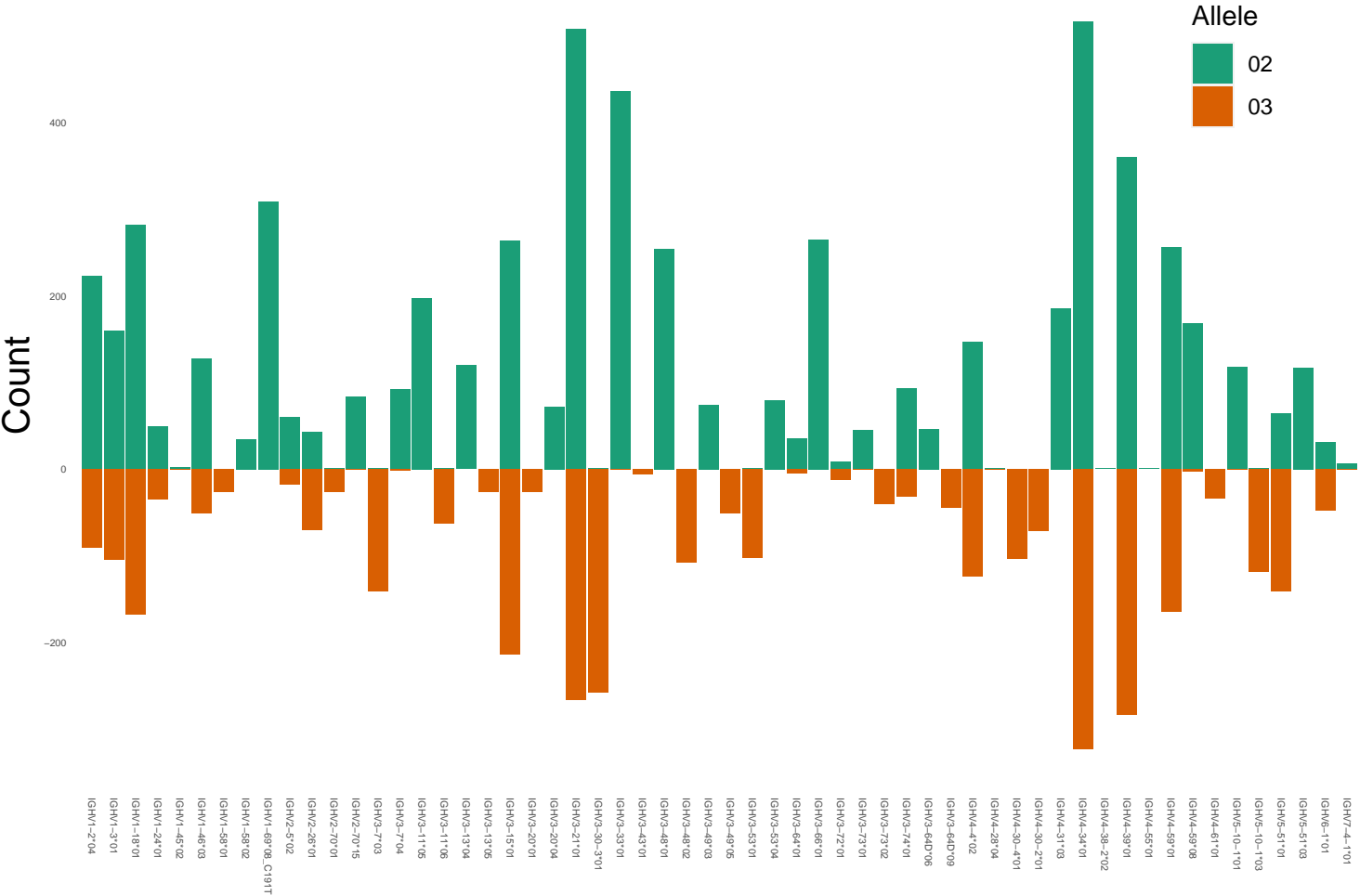
IGHV7-4-1*01

22 sequences assigned
18 (81.8%) exact matches, in which:
17 unique CDR3
6 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.