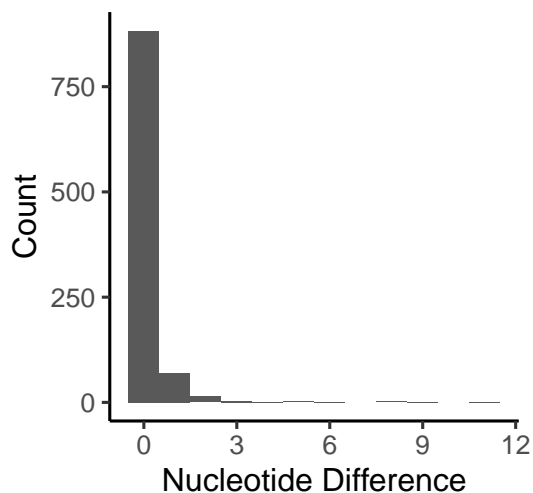


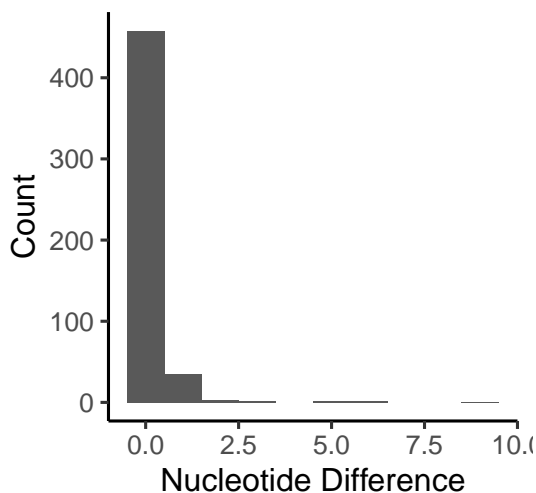
IGHV1-2*04

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



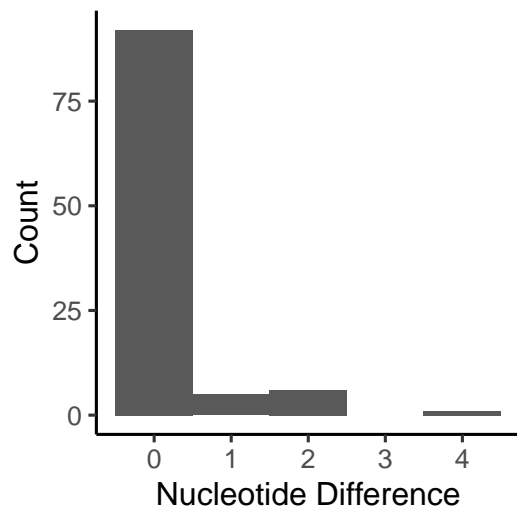
IGHV1-24*01

503 sequences assigned
458 (91.1%) exact matches, in which:
445 unique CDR3
7 unique J



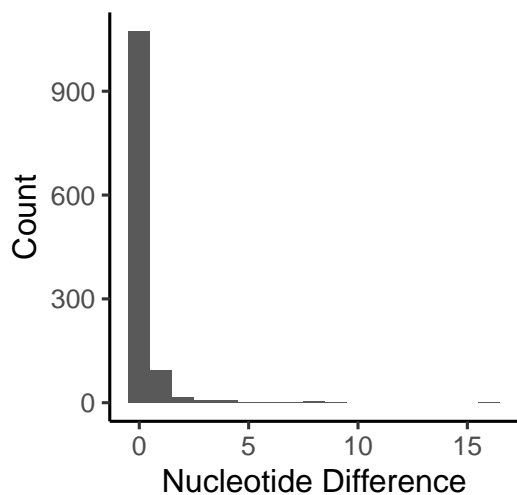
IGHV1-58*01

104 sequences assigned
92 (88.5%) exact matches, in which:
89 unique CDR3
5 unique J



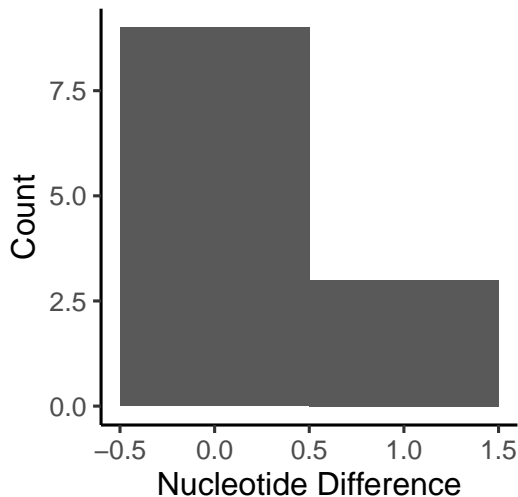
IGHV1-3*01

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



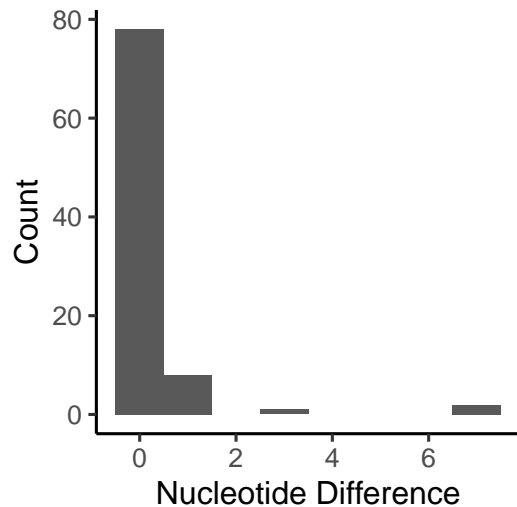
IGHV1-45*02

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



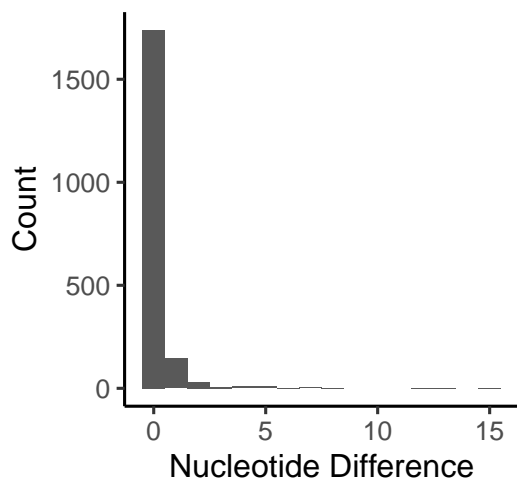
IGHV1-58*02

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



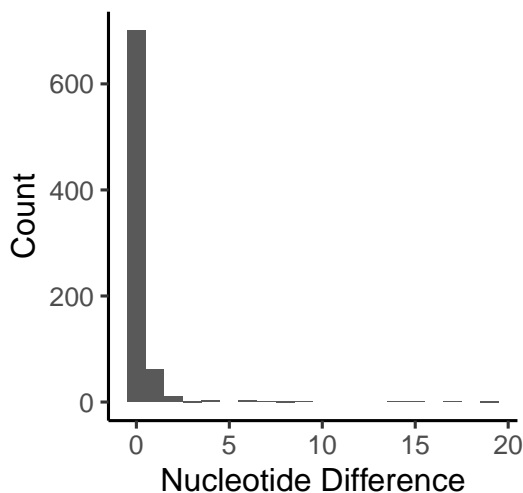
IGHV1-18*01

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



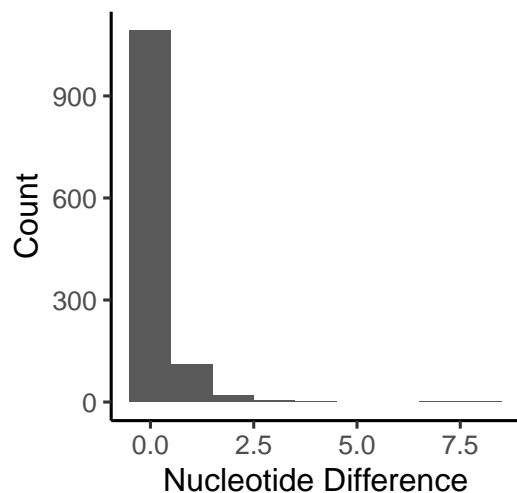
IGHV1-46*03

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



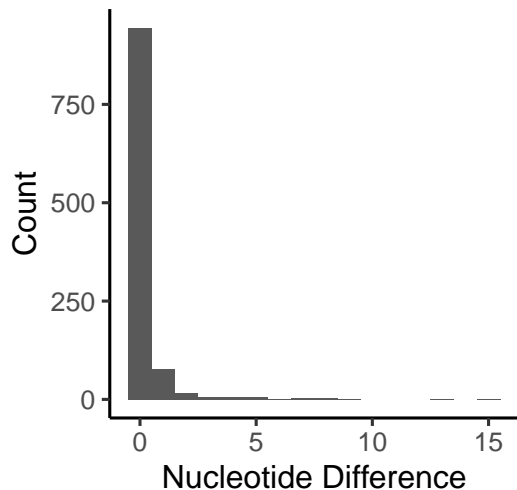
IGHV1-69*08_C191T

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



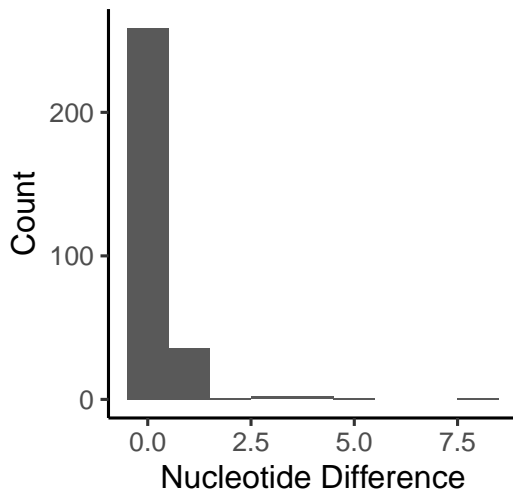
IGHV2-5*02

1070 sequences assigned
945 (88.3%) exact matches, in which:
908 unique CDR3
7 unique J



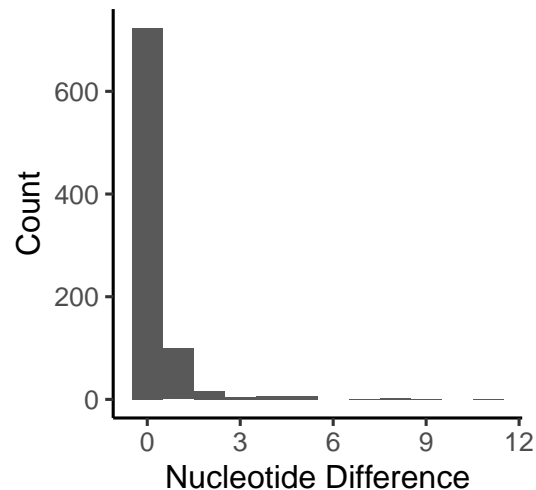
IGHV2-70*15

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



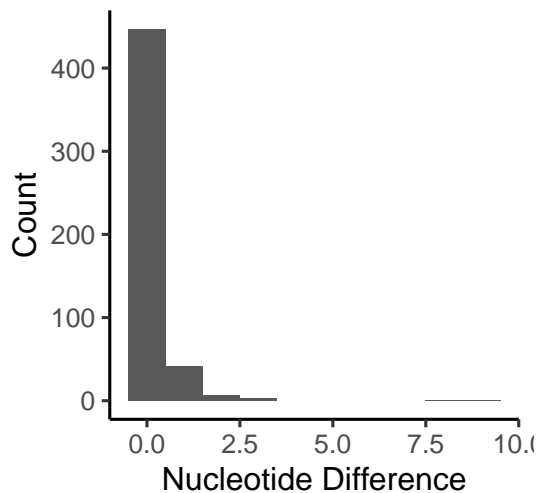
IGHV3-11*05

863 sequences assigned
724 (83.9%) exact matches, in which:
693 unique CDR3
6 unique J



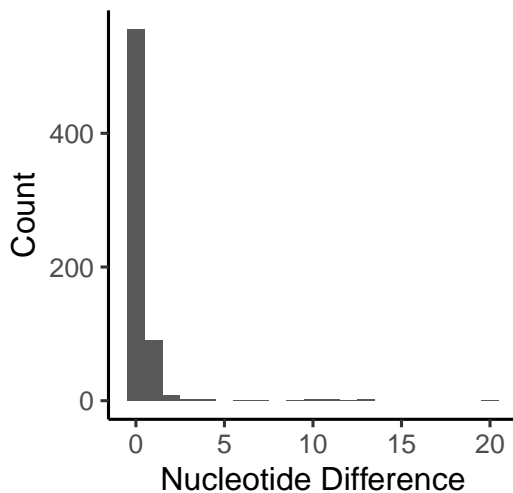
IGHV2-26*01

500 sequences assigned
447 (89.4%) exact matches, in which:
435 unique CDR3
7 unique J



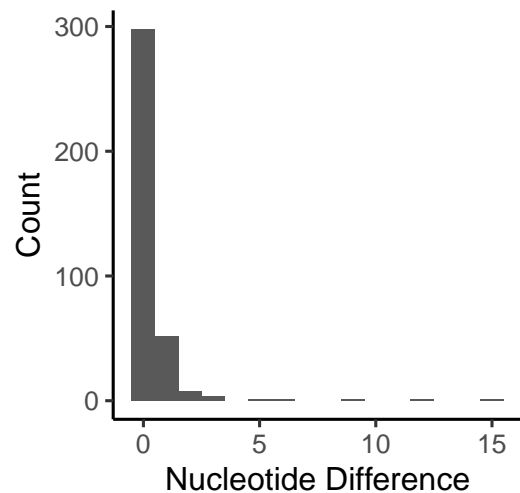
IGHV3-7*03

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



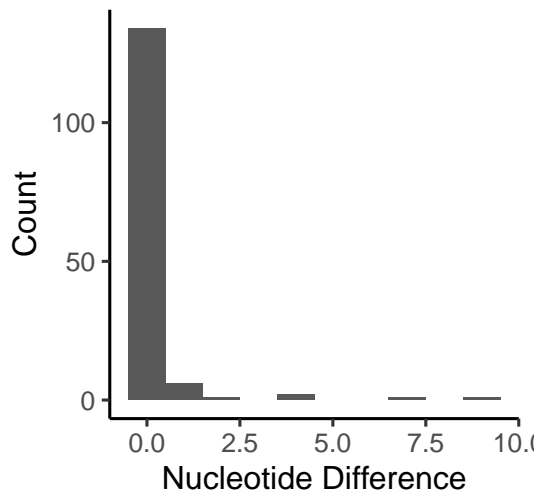
IGHV3-11*06

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



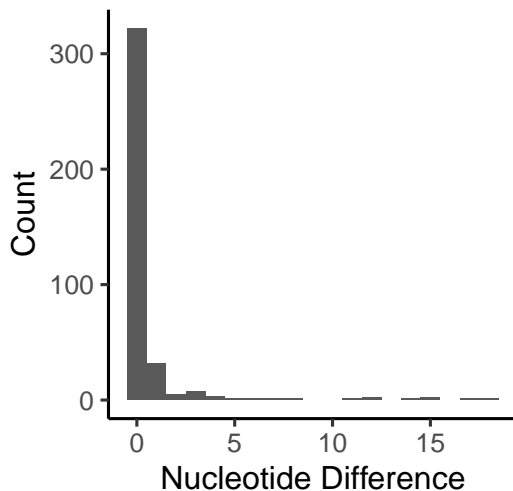
IGHV2-70*01

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



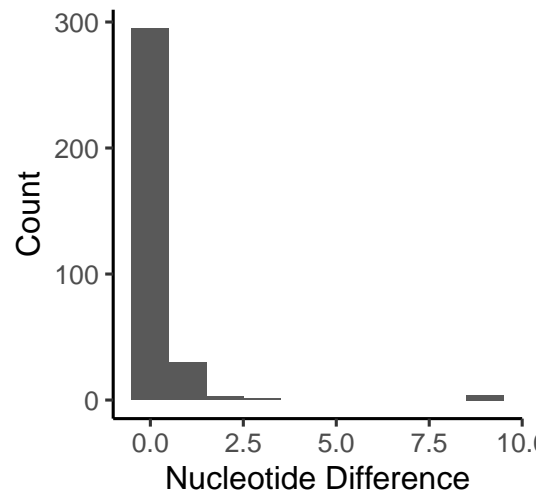
IGHV3-7*04

382 sequences assigned
322 (84.3%) exact matches, in which:
310 unique CDR3
7 unique J



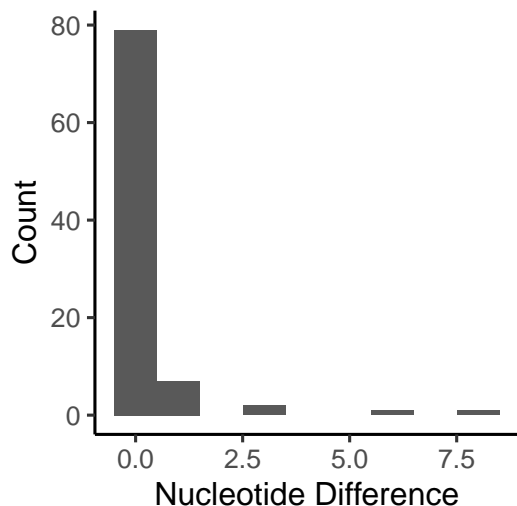
IGHV3-13*04

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



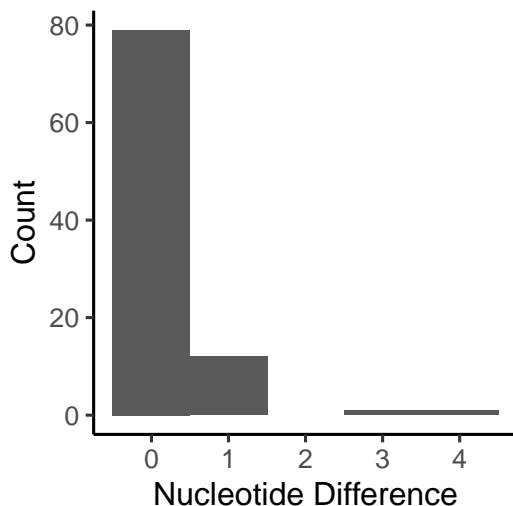
IGHV3-13*05

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



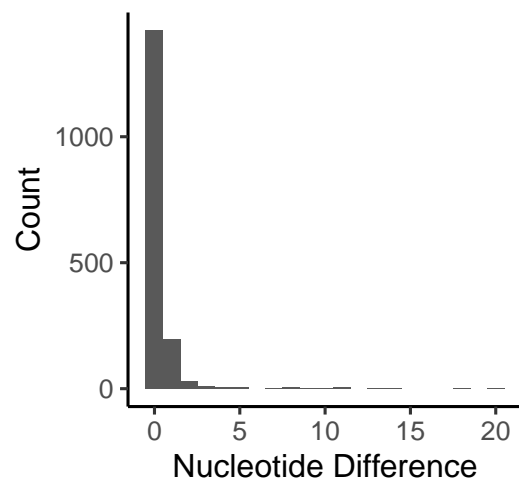
IGHV3-20*01

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



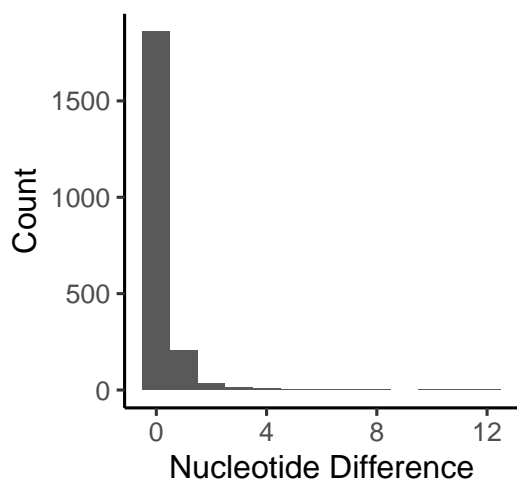
IGHV3-30-3*01

1689 sequences assigned
1422 (84.2%) exact matches, in which:
1346 unique CDR3
7 unique J



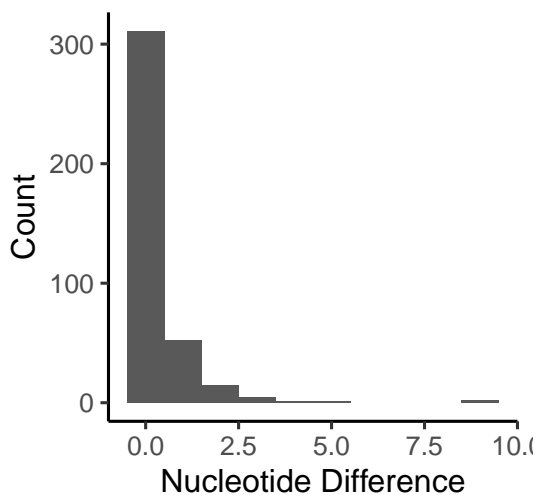
IGHV3-15*01

2139 sequences assigned
1859 (86.9%) exact matches, in which:
1762 unique CDR3
7 unique J



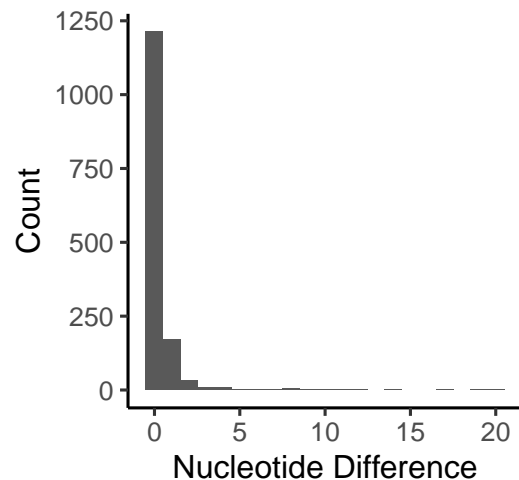
IGHV3-20*04

387 sequences assigned
311 (80.4%) exact matches, in which:
294 unique CDR3
6 unique J



IGHV3-33*01

1459 sequences assigned
1213 (83.1%) exact matches, in which:
1149 unique CDR3
7 unique J



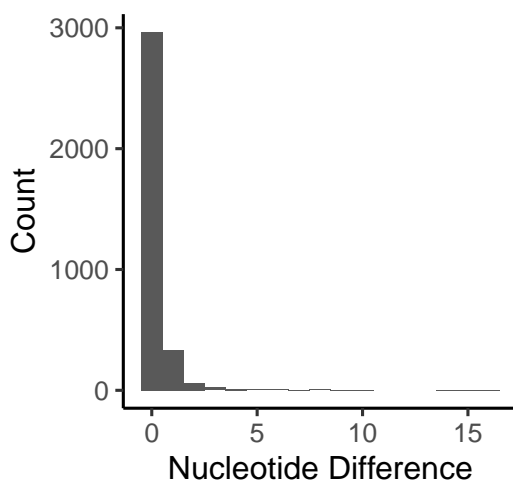
IGHV3-19*01

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



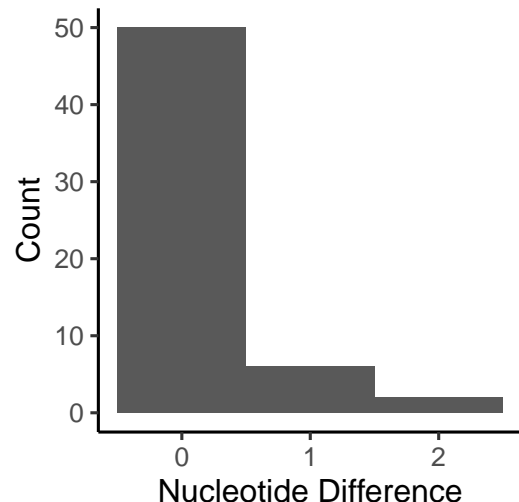
IGHV3-21*01

3422 sequences assigned
2965 (86.6%) exact matches, in which:
2756 unique CDR3
7 unique J



IGHV3-43*01

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



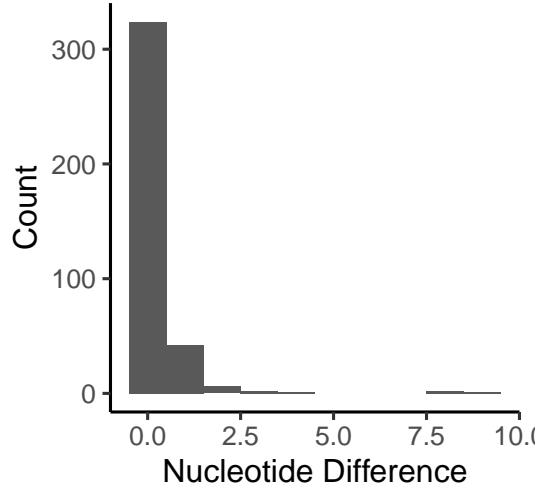
IGHV3-47*02

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



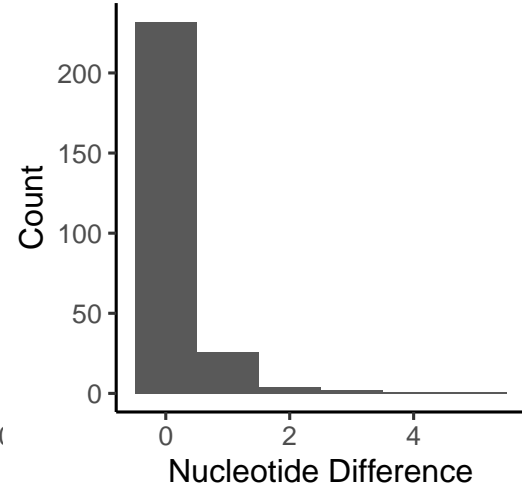
IGHV3-49*03

378 sequences assigned
324 (85.7%) exact matches, in which:
310 unique CDR3
5 unique J



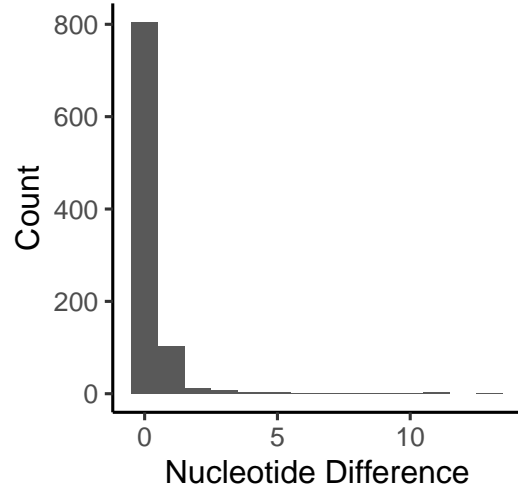
IGHV3-53*04

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



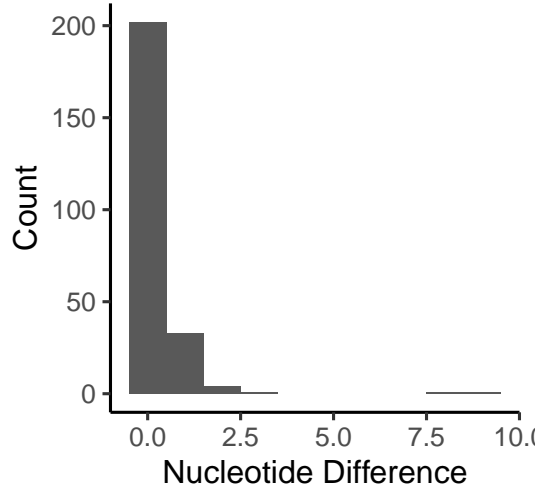
IGHV3-48*01

944 sequences assigned
805 (85.3%) exact matches, in which:
774 unique CDR3
6 unique J



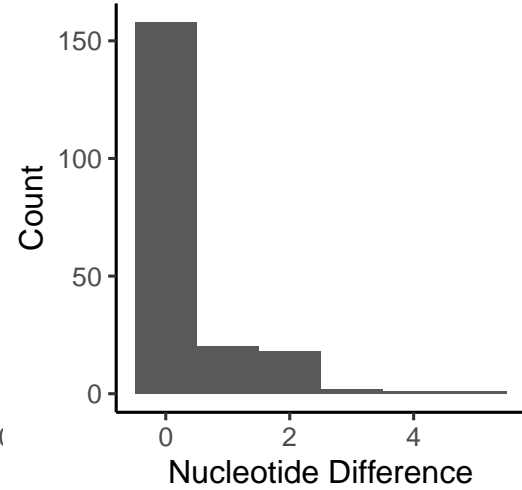
IGHV3-49*05

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



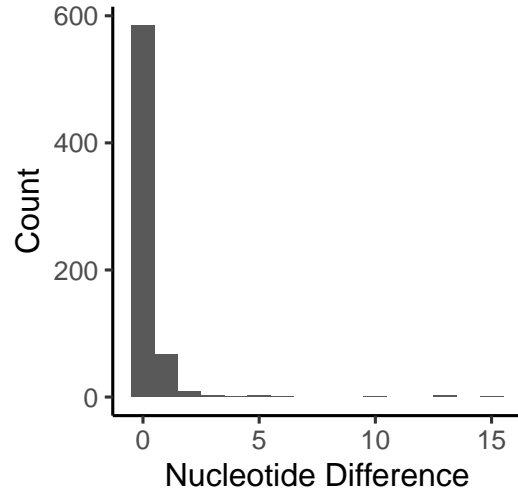
IGHV3-64*01

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



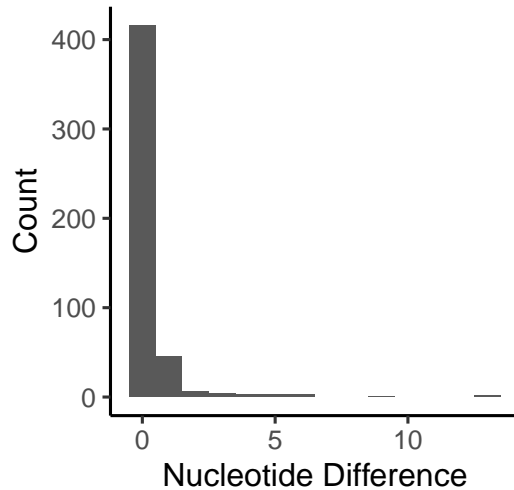
IGHV3-48*02

671 sequences assigned
585 (87.2%) exact matches, in which:
557 unique CDR3
6 unique J



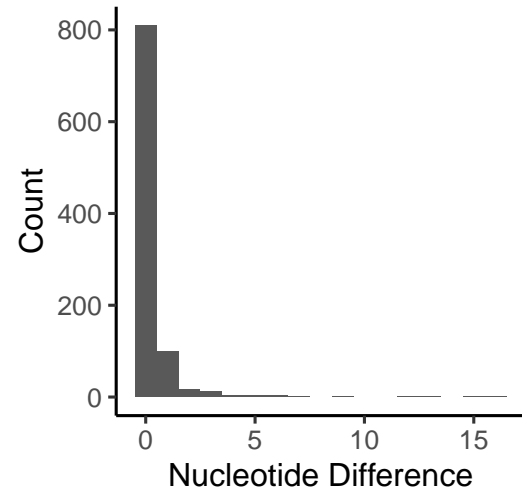
IGHV3-53*01

483 sequences assigned
416 (86.1%) exact matches, in which:
395 unique CDR3
7 unique J



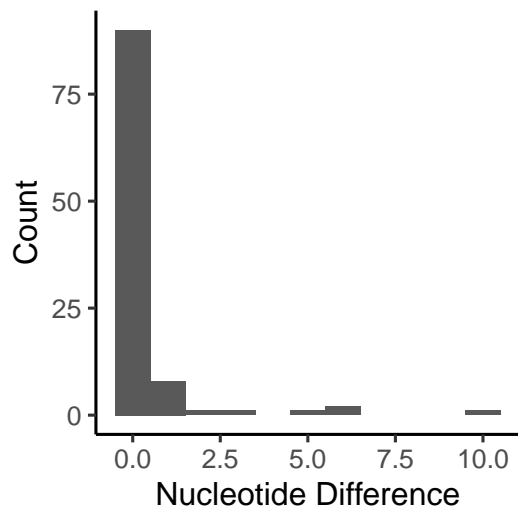
IGHV3-66*01

958 sequences assigned
810 (84.6%) exact matches, in which:
757 unique CDR3
6 unique J



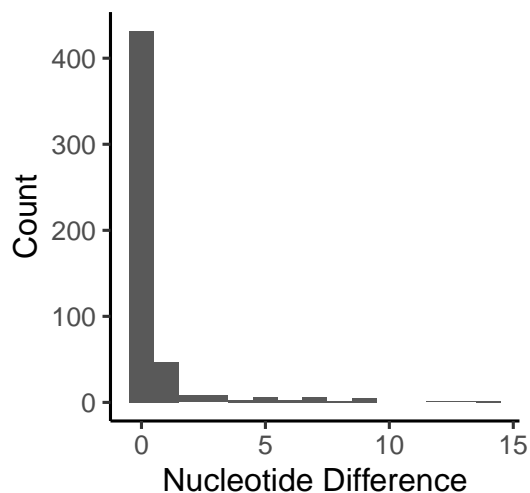
IGHV3-72*01

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



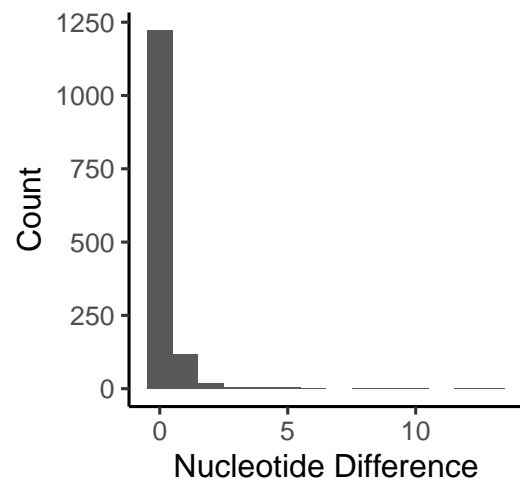
IGHV3-74*01

524 sequences assigned
432 (82.4%) exact matches, in which:
418 unique CDR3
7 unique J



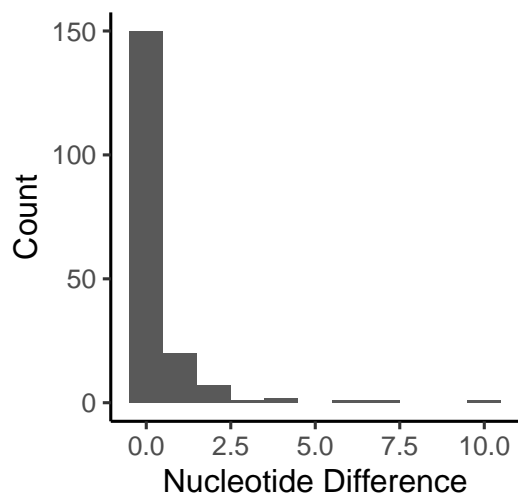
IGHV4-4*02

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



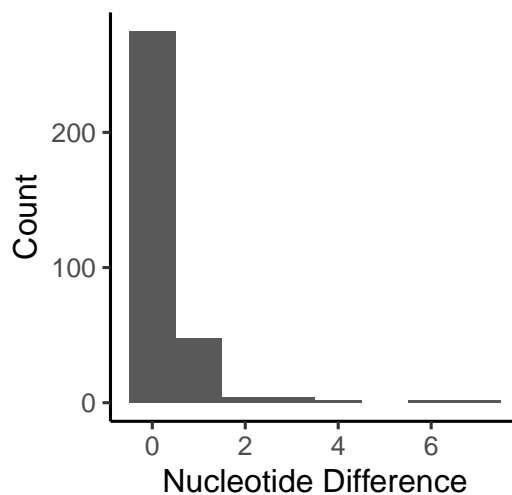
IGHV3-73*01

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



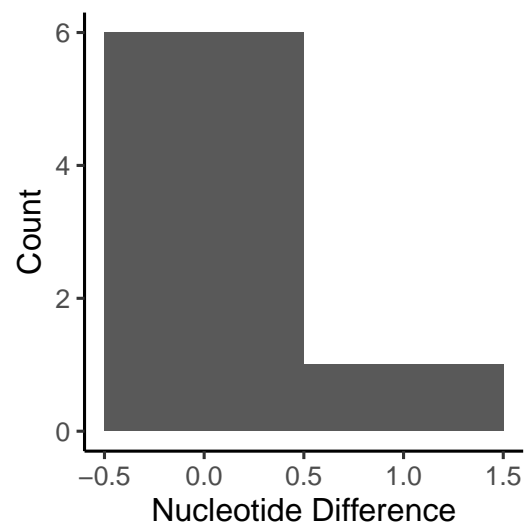
IGHV3-64D*06

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



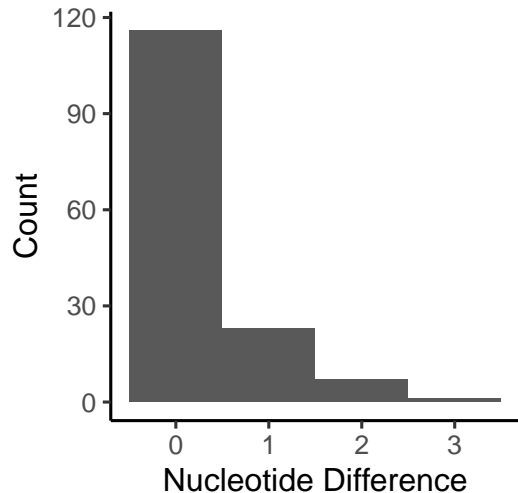
IGHV4-28*01

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



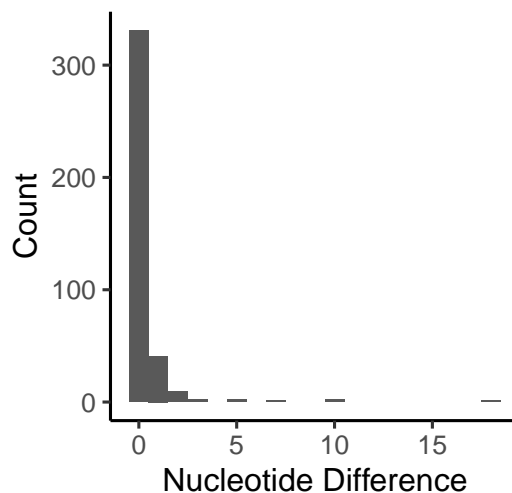
IGHV3-73*02

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



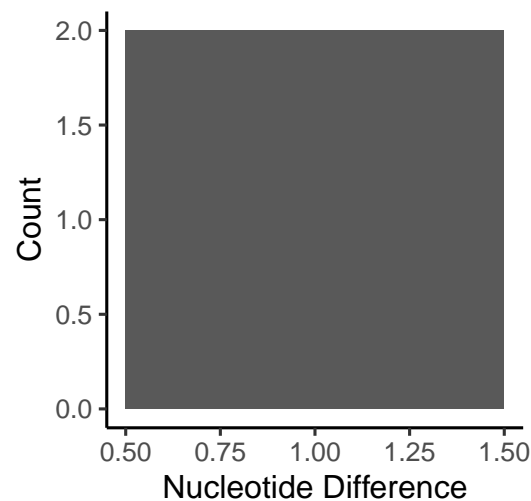
IGHV3-64D*09

390 sequences assigned
331 (84.9%) exact matches, in which:
306 unique CDR3
6 unique J



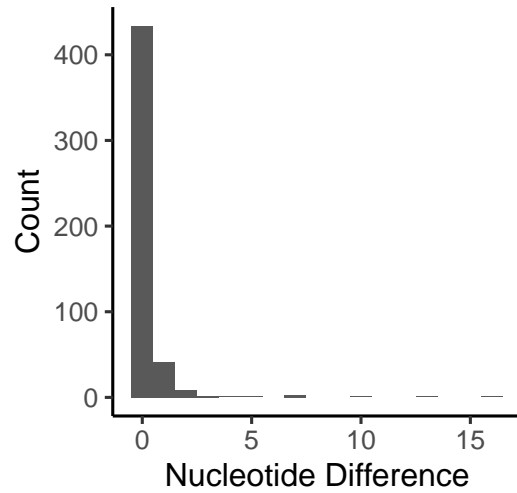
IGHV4-28*04

2 sequences assigned
No exact matches.



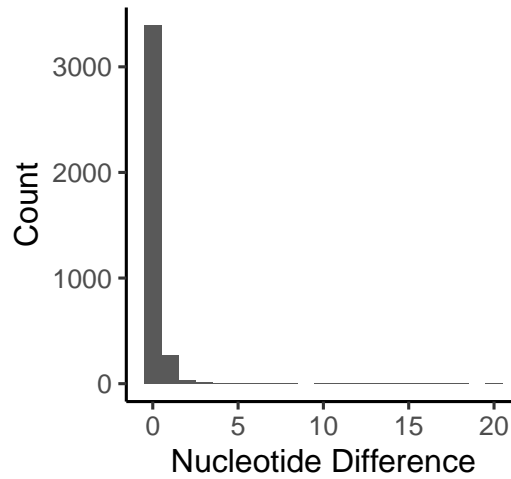
IGHV4-30-4*01

494 sequences assigned
434 (87.9%) exact matches, in which:
423 unique CDR3
6 unique J



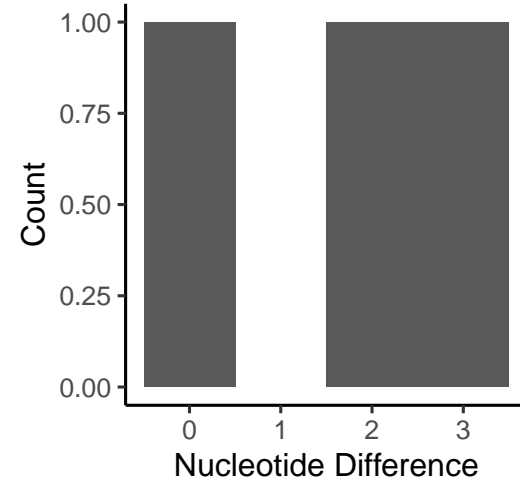
IGHV4-34*01

3775 sequences assigned
3392 (89.9%) exact matches, in which:
3191 unique CDR3
7 unique J



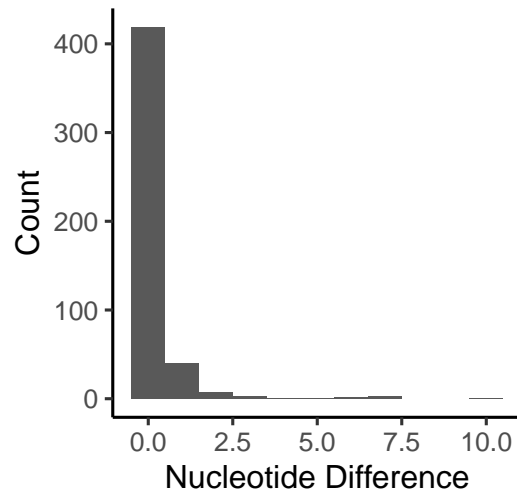
IGHV4-55*01

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



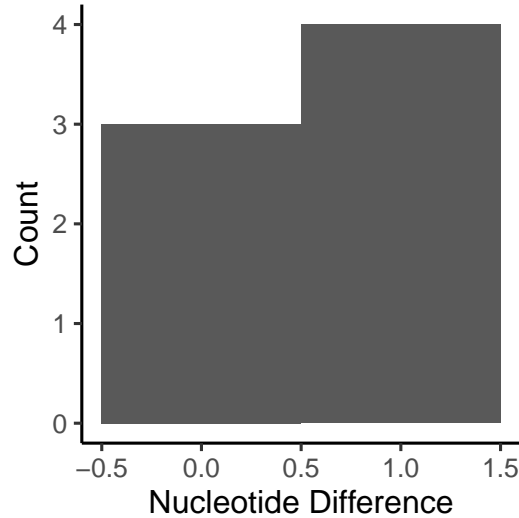
IGHV4-30-2*01

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



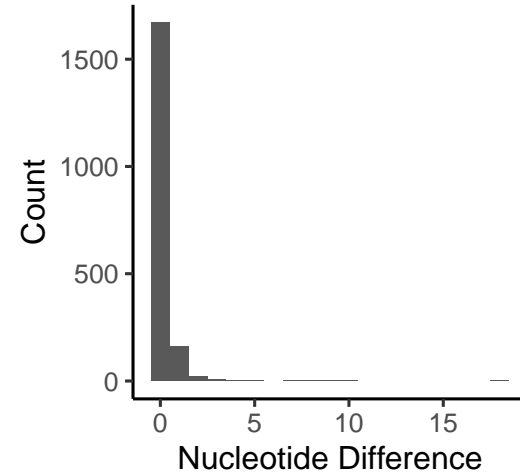
IGHV4-38-2*02

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



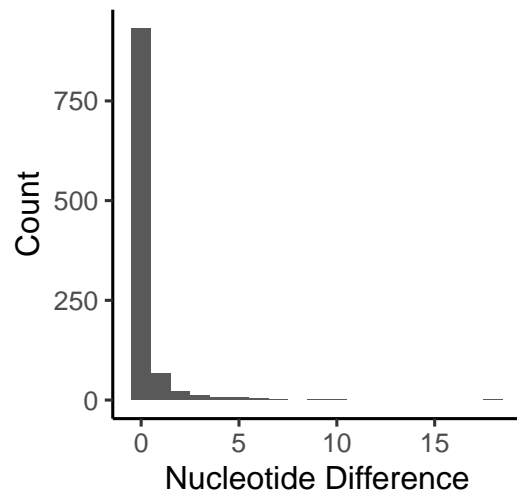
IGHV4-59*01

1880 sequences assigned
1670 (88.8%) exact matches, in which:
1611 unique CDR3
7 unique J



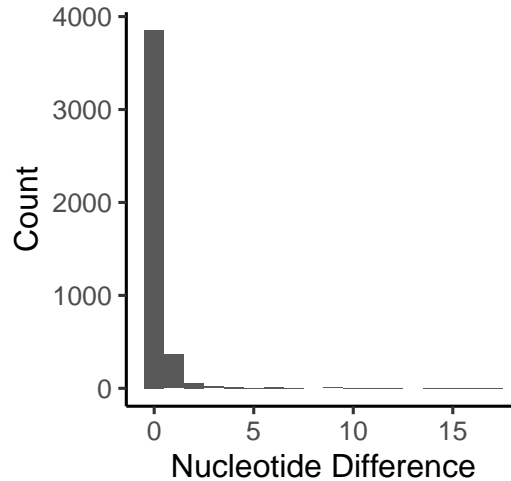
IGHV4-31*03

1051 sequences assigned
932 (88.7%) exact matches, in which:
898 unique CDR3
6 unique J



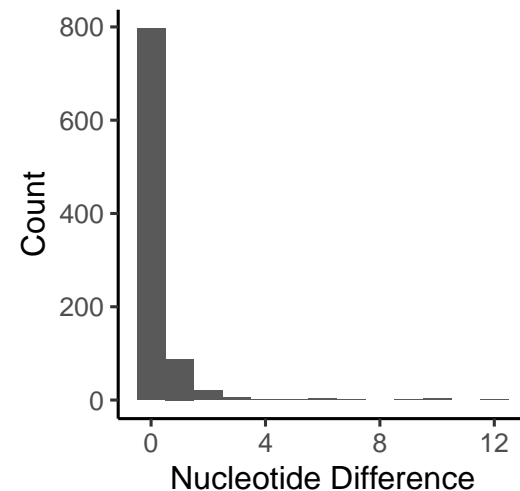
IGHV4-39*01

4367 sequences assigned
3855 (88.3%) exact matches, in which:
3640 unique CDR3
7 unique J



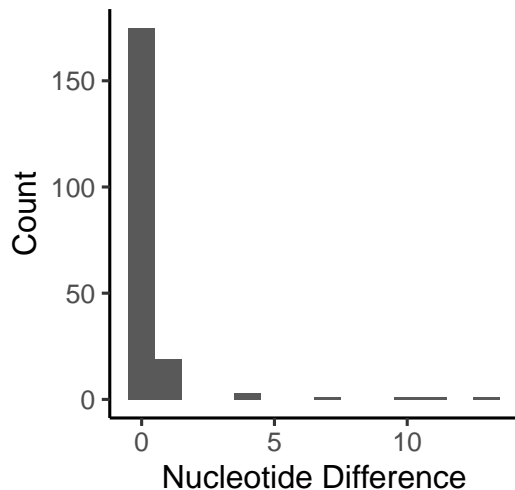
IGHV4-59*08

926 sequences assigned
797 (86.1%) exact matches, in which:
766 unique CDR3
7 unique J



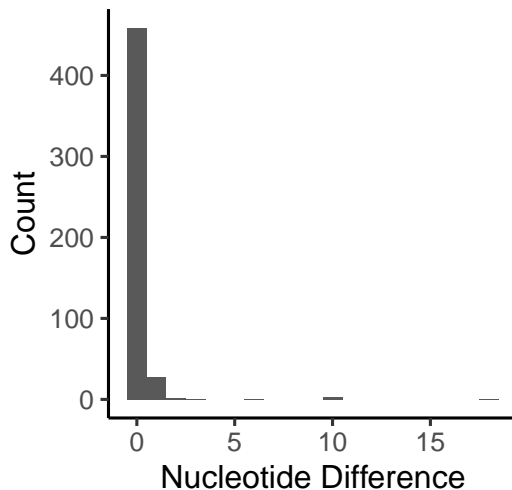
IGHV4–61*01

201 sequences assigned
175 (87.1%) exact matches, in which:
172 unique CDR3
5 unique J



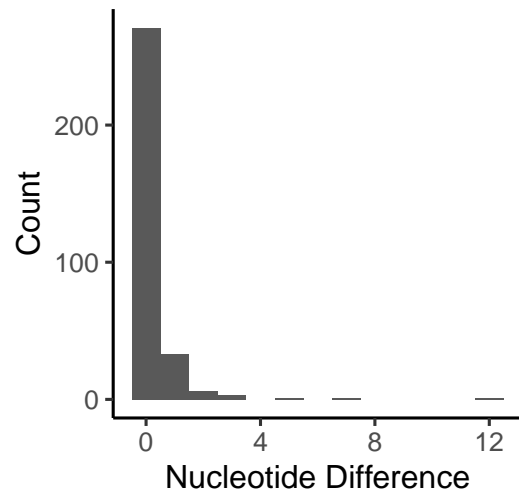
IGHV5–10–1*03

495 sequences assigned
459 (92.7%) exact matches, in which:
447 unique CDR3
7 unique J



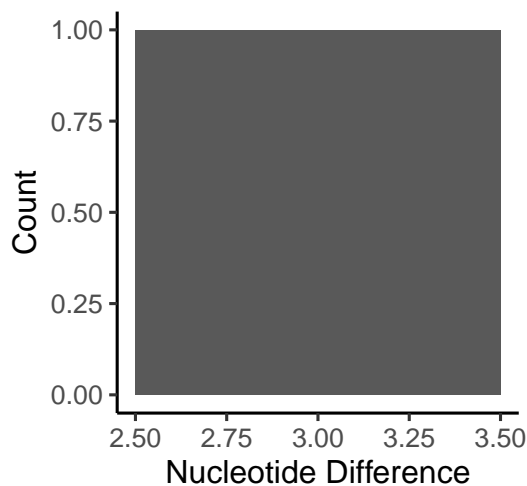
IGHV6–1*01

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



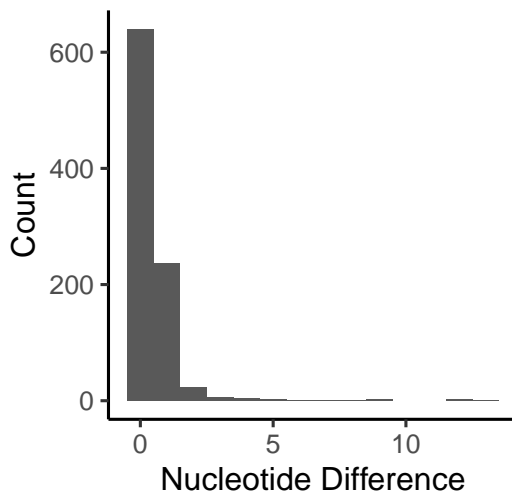
IGHV1/OR15–3*01

1 sequences assigned
No exact matches.



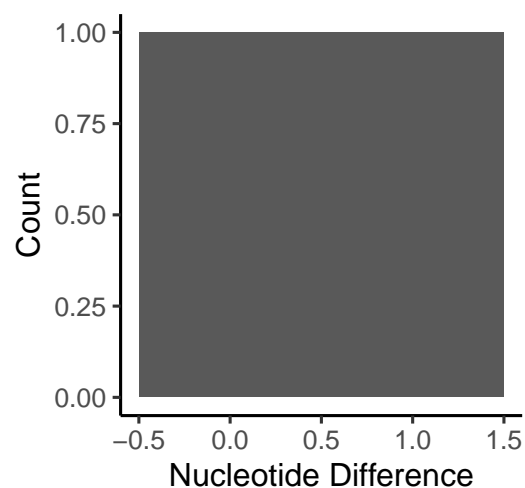
IGHV5–51*01

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



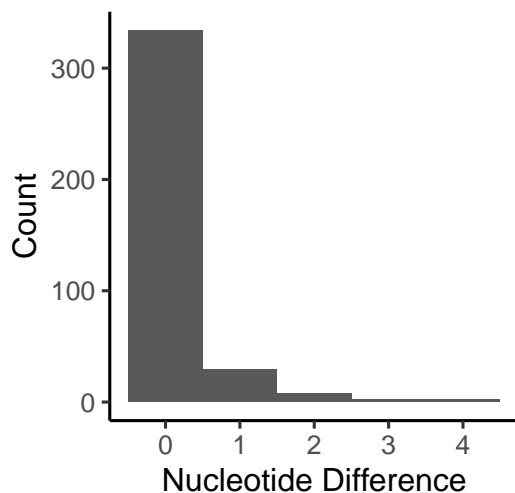
IGHV3/OR16–6*02

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



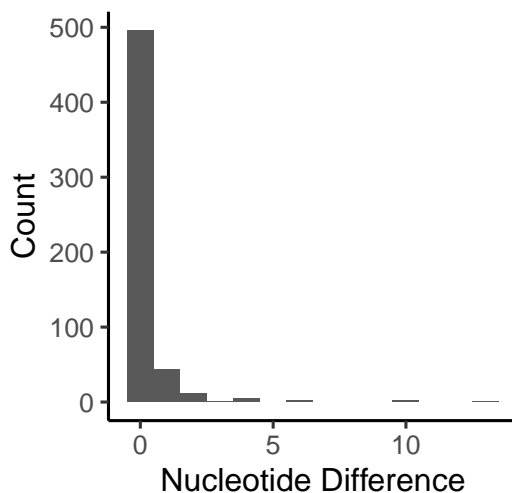
IGHV5–10–1*01

375 sequences assigned
334 (89.1%) exact matches, in which:
324 unique CDR3
6 unique J



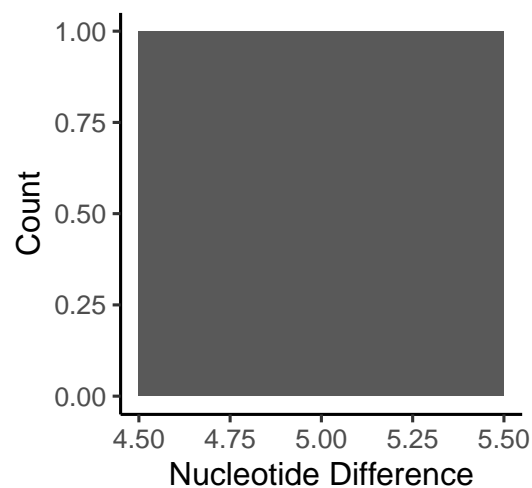
IGHV5–51*03

564 sequences assigned
496 (87.9%) exact matches, in which:
476 unique CDR3
6 unique J



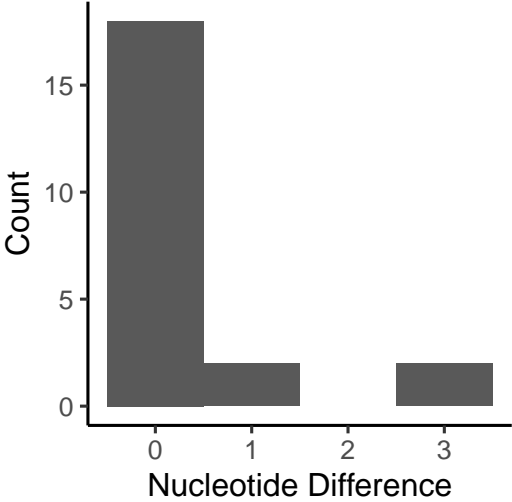
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.

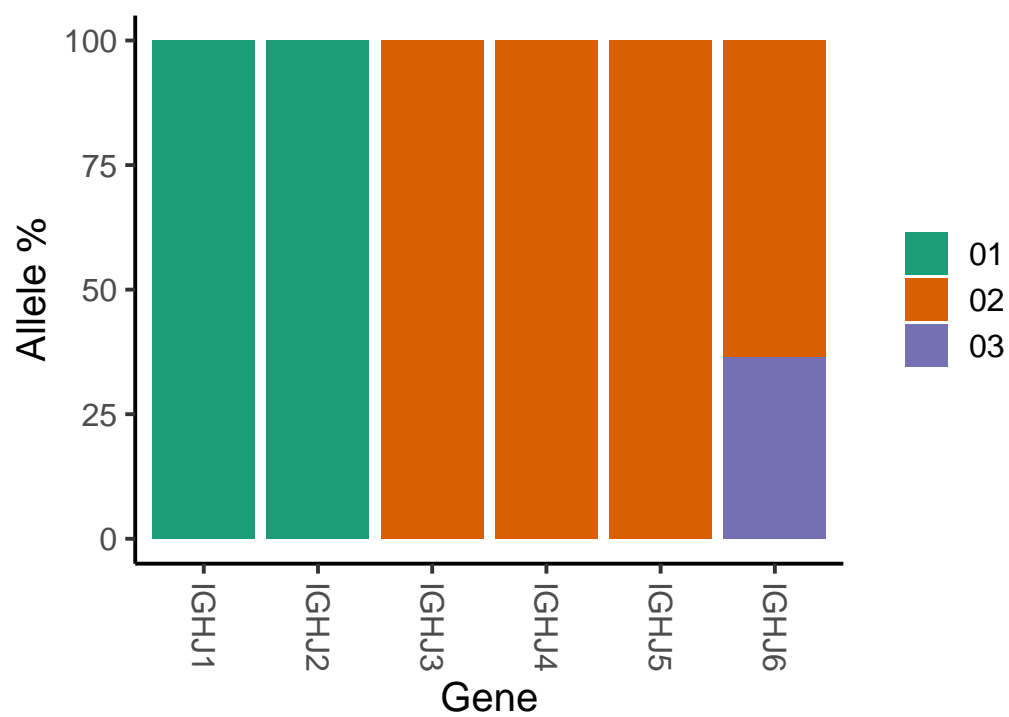


IGHV7-4-1*01

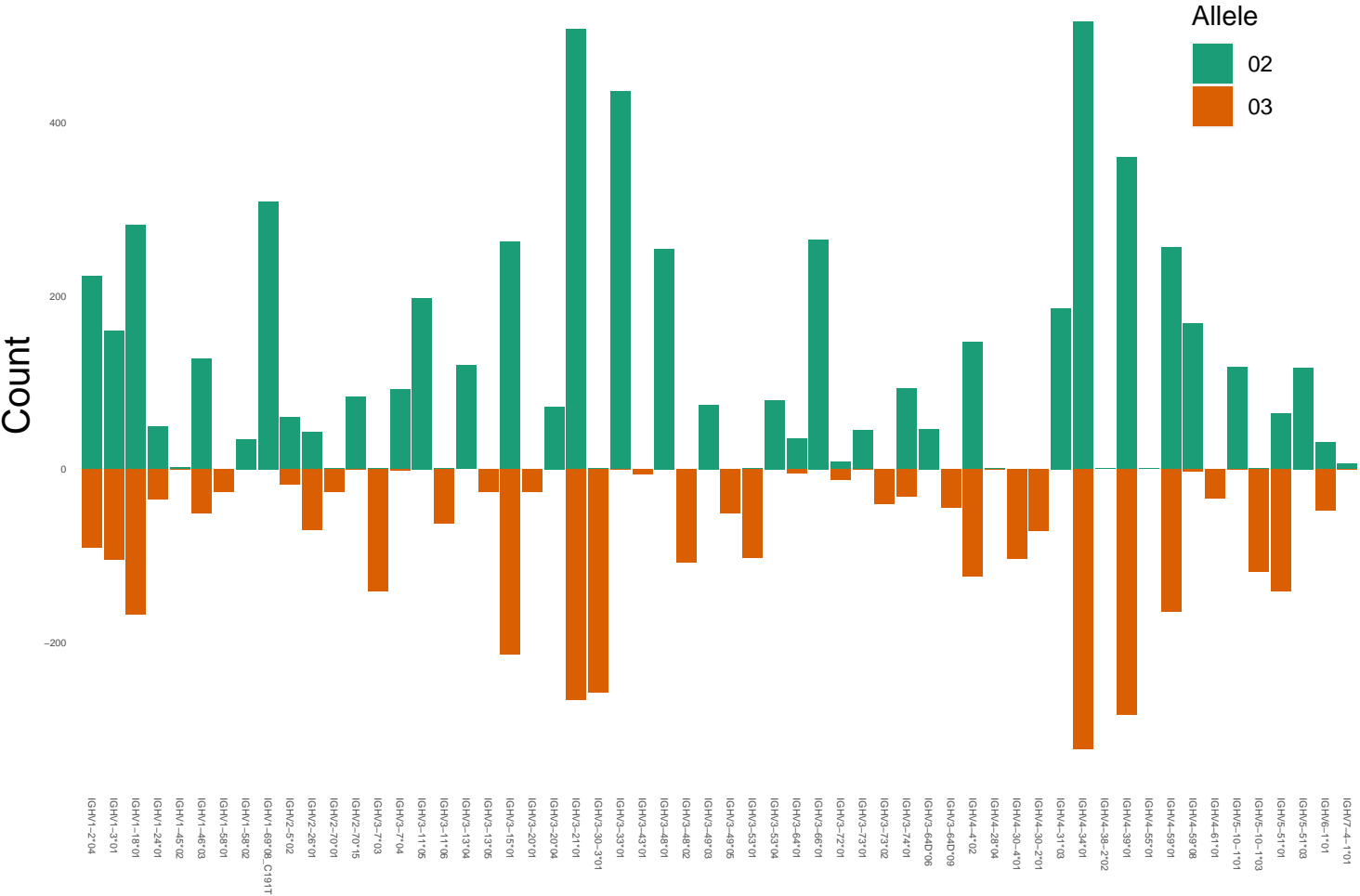
22 sequences assigned
18 (81.8%) exact matches, in which:
17 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.