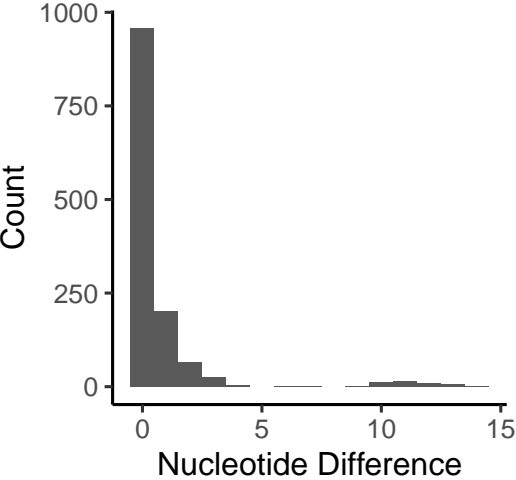


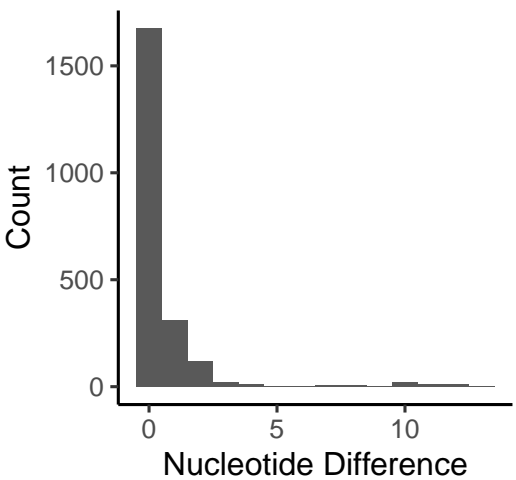
IGHV1-2*02

1304 sequences assigned
957 (73.4%) exact matches, in which:
888 unique CDR3
6 unique J



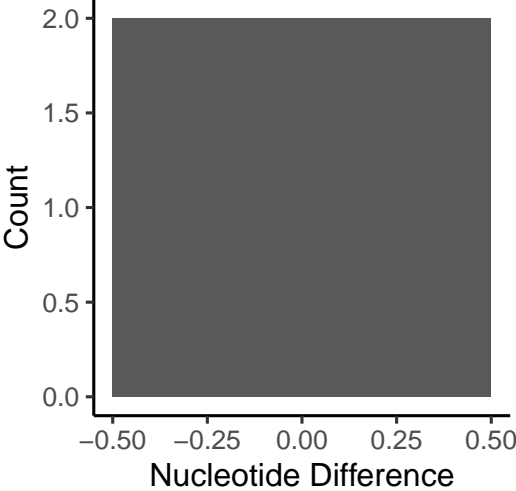
IGHV1-18*01

2219 sequences assigned
1675 (75.5%) exact matches, in which:
1552 unique CDR3
6 unique J



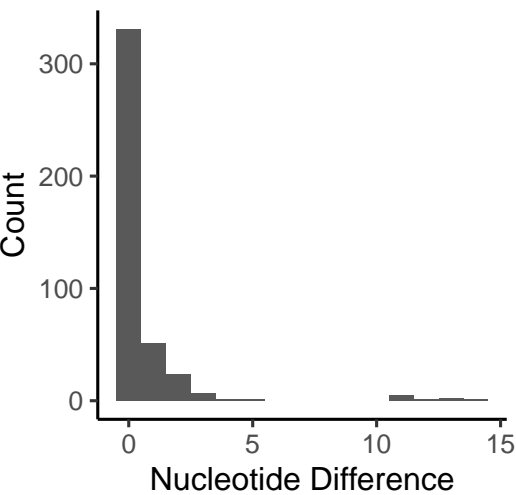
IGHV1-45*02

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



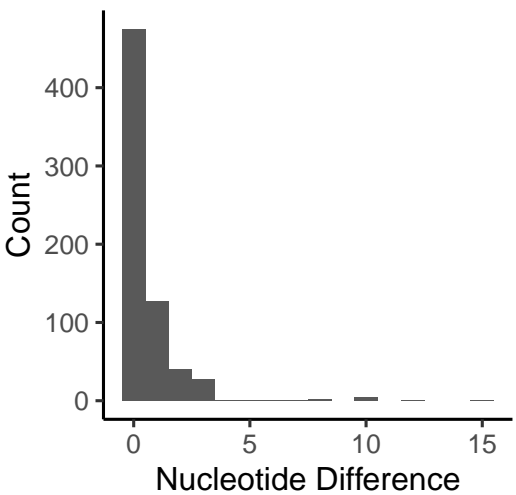
IGHV1-2*04

424 sequences assigned
331 (78.1%) exact matches, in which:
305 unique CDR3
6 unique J



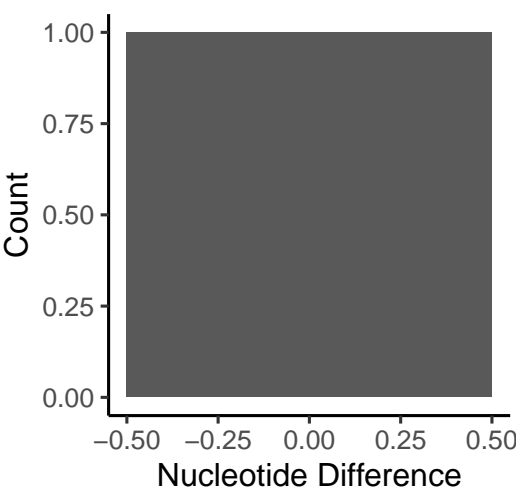
IGHV1-24*01

688 sequences assigned
475 (69%) exact matches, in which:
440 unique CDR3
6 unique J



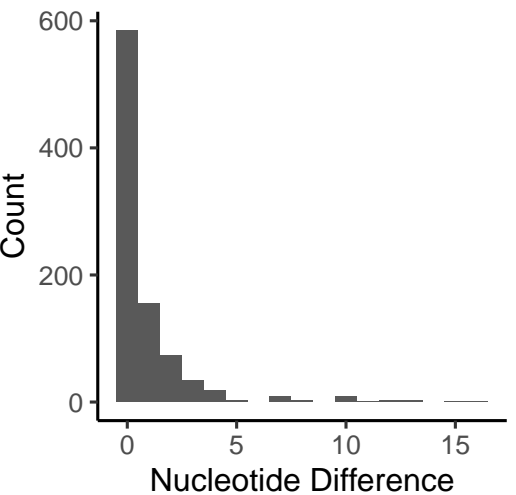
IGHV1-45*03

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



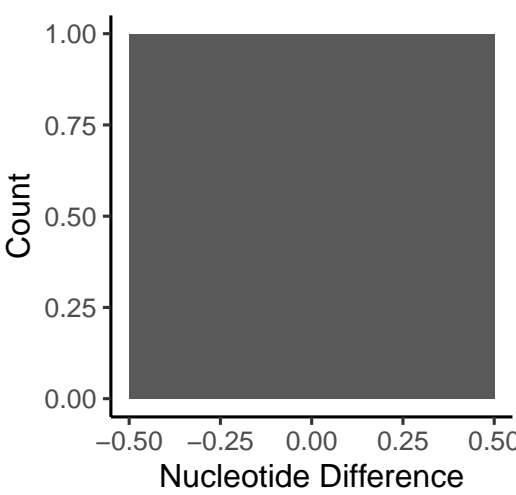
IGHV1-3*01

894 sequences assigned
585 (65.4%) exact matches, in which:
544 unique CDR3
6 unique J



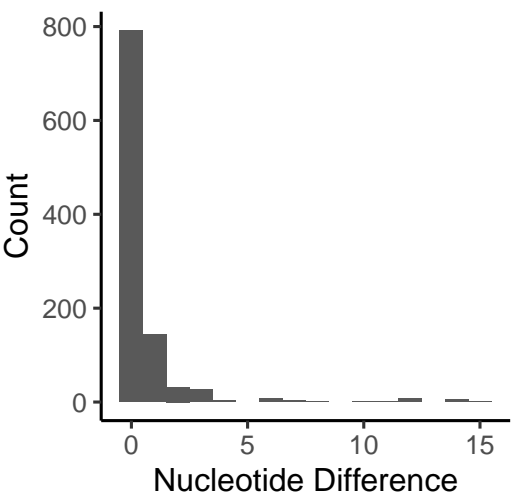
IGHV1-38-4*01

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



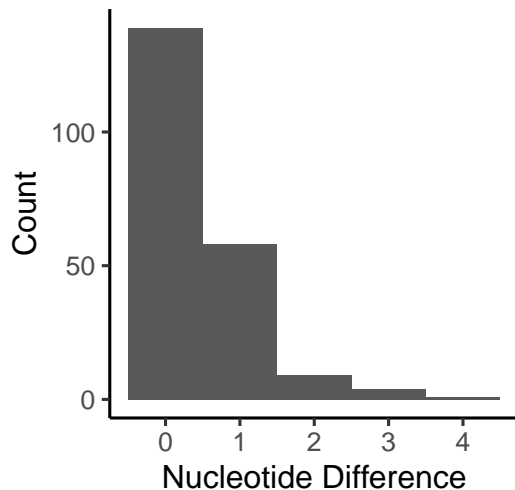
IGHV1-46*01

1025 sequences assigned
792 (77.3%) exact matches, in which:
740 unique CDR3
6 unique J



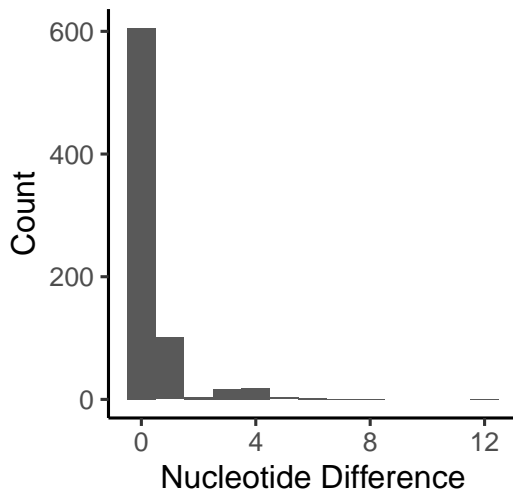
IGHV1–58*02

212 sequences assigned
139 (65.6%) exact matches, in which:
122 unique CDR3
5 unique J



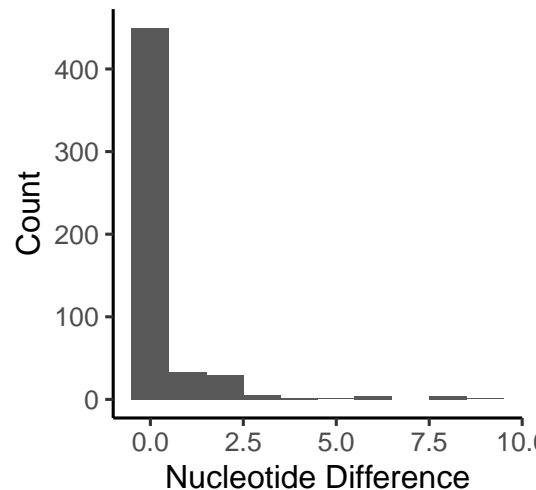
IGHV2–5*02

754 sequences assigned
606 (80.4%) exact matches, in which:
575 unique CDR3
6 unique J



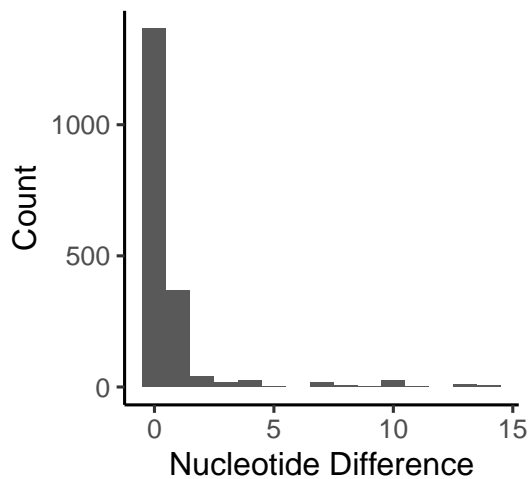
IGHV3–7*03

530 sequences assigned
450 (84.9%) exact matches, in which:
425 unique CDR3
6 unique J



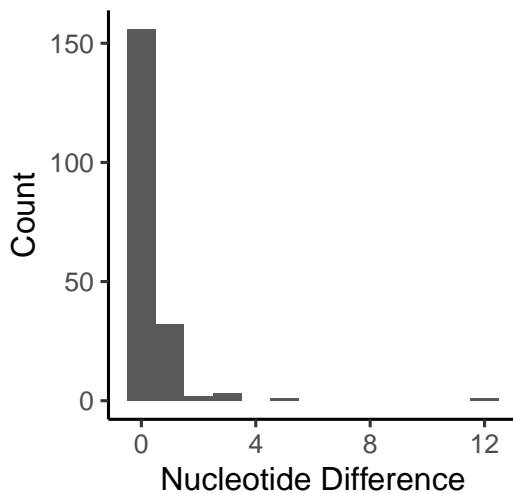
IGHV1–69*04

1888 sequences assigned
1366 (72.4%) exact matches, in which:
1219 unique CDR3
6 unique J



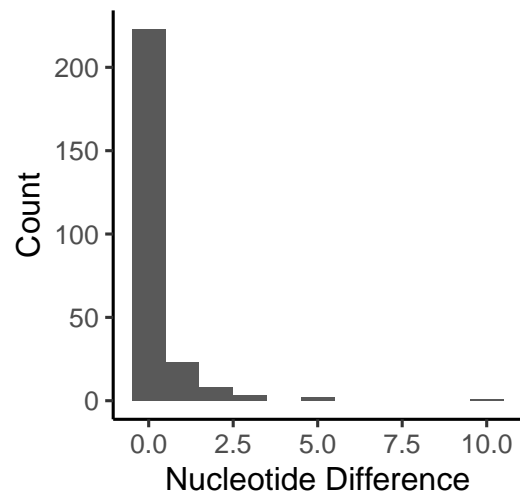
IGHV2–26*01

195 sequences assigned
156 (80%) exact matches, in which:
151 unique CDR3
6 unique J



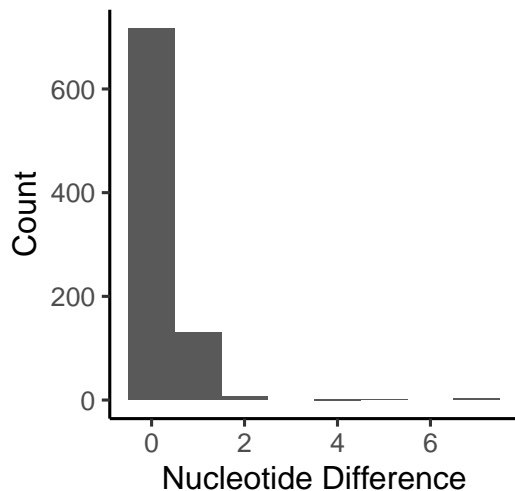
IGHV3–7*04

260 sequences assigned
223 (85.8%) exact matches, in which:
207 unique CDR3
6 unique J



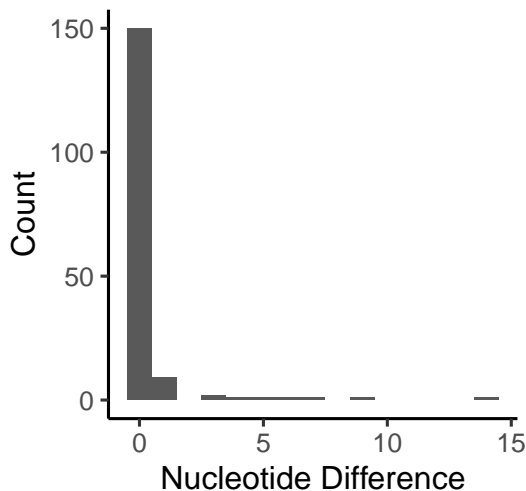
IGHV1–69*08_C191T

859 sequences assigned
717 (83.5%) exact matches, in which:
668 unique CDR3
6 unique J



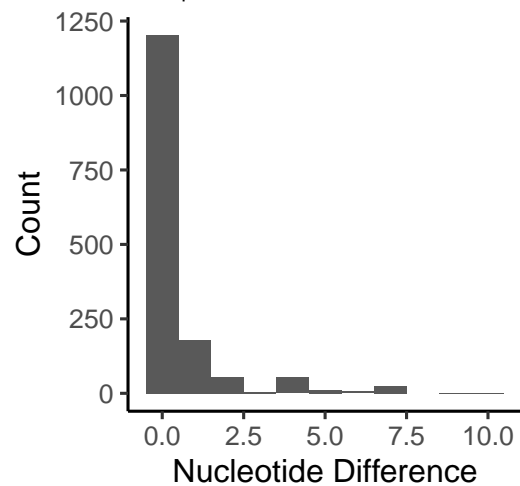
IGHV2–70*15

167 sequences assigned
150 (89.8%) exact matches, in which:
145 unique CDR3
6 unique J



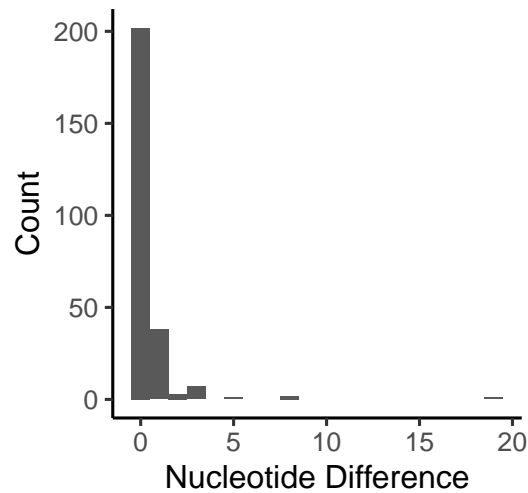
IGHV3–11*05

1538 sequences assigned
1203 (78.2%) exact matches, in which:
1030 unique CDR3
6 unique J



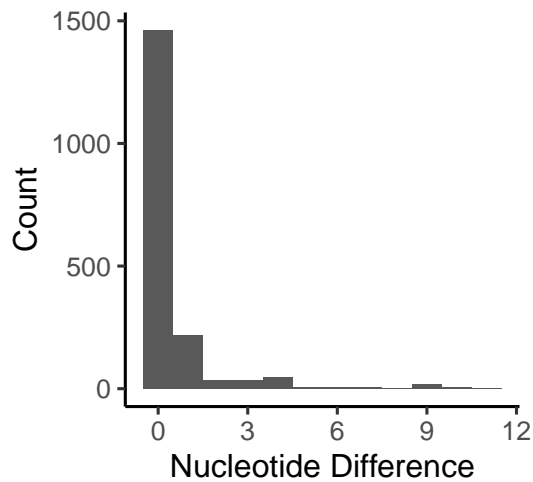
IGHV3-13*04

254 sequences assigned
202 (79.5%) exact matches, in which:
191 unique CDR3
5 unique J



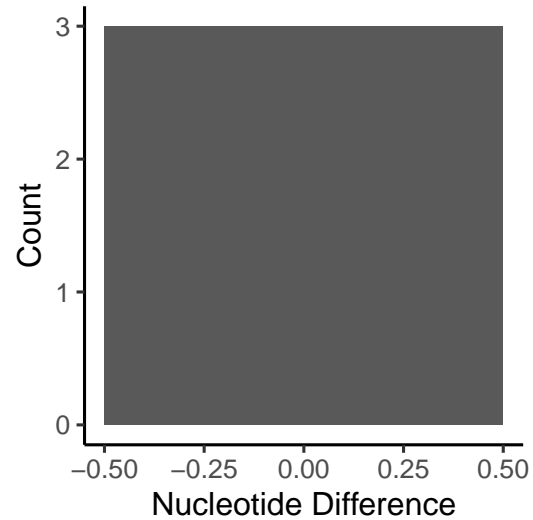
IGHV3-21*01

1838 sequences assigned
1461 (79.5%) exact matches, in which:
1353 unique CDR3
6 unique J



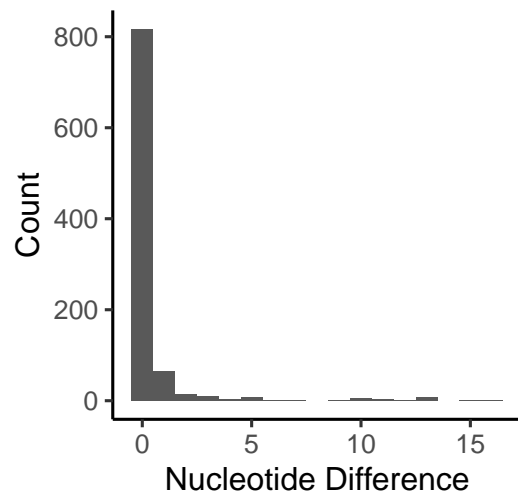
IGHV3-38-3*01

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



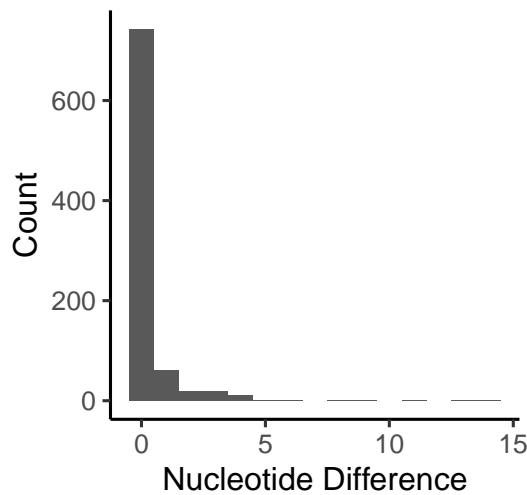
IGHV3-15*01

941 sequences assigned
817 (86.8%) exact matches, in which:
782 unique CDR3
6 unique J



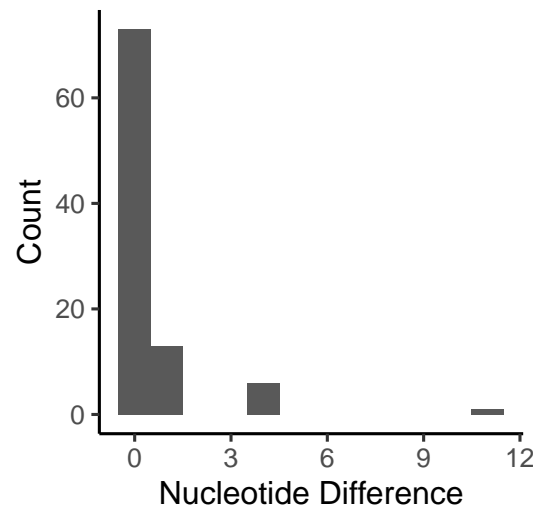
IGHV3-30-3*01

861 sequences assigned
743 (86.3%) exact matches, in which:
655 unique CDR3
6 unique J



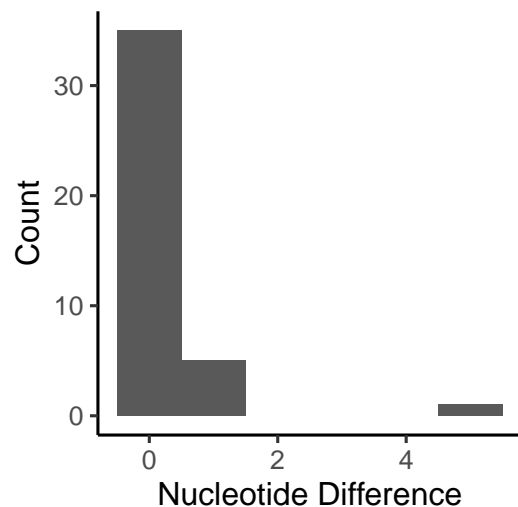
IGHV3-43*01

93 sequences assigned
73 (78.5%) exact matches, in which:
70 unique CDR3
6 unique J



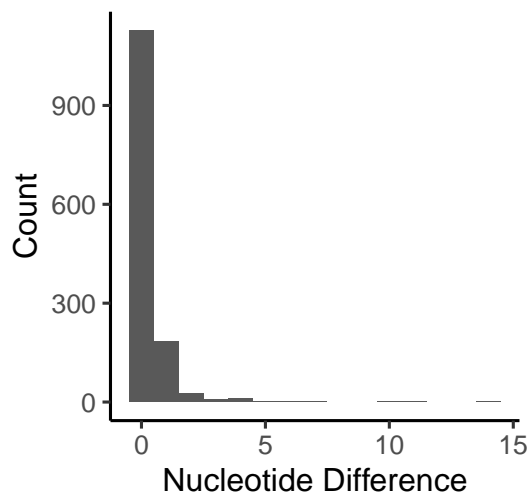
IGHV3-20*01

41 sequences assigned
35 (85.4%) exact matches, in which:
31 unique CDR3
5 unique J



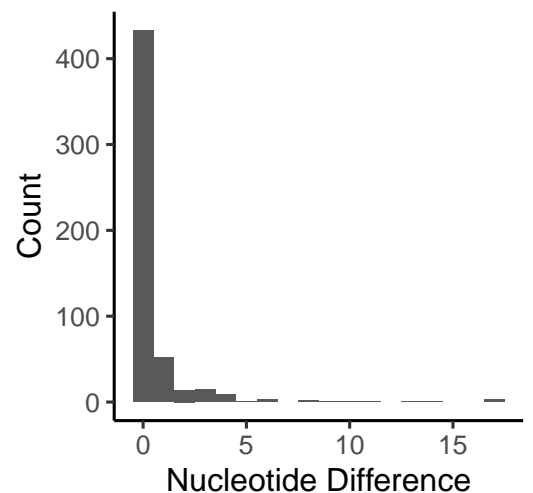
IGHV3-33*01

1367 sequences assigned
1128 (82.5%) exact matches, in which:
991 unique CDR3
6 unique J



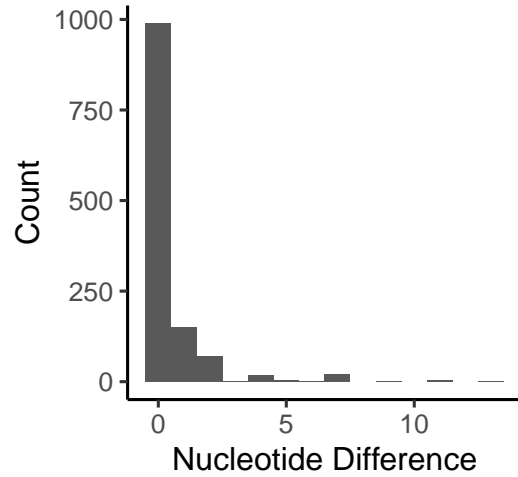
IGHV3-43*02

537 sequences assigned
433 (80.6%) exact matches, in which:
414 unique CDR3
6 unique J



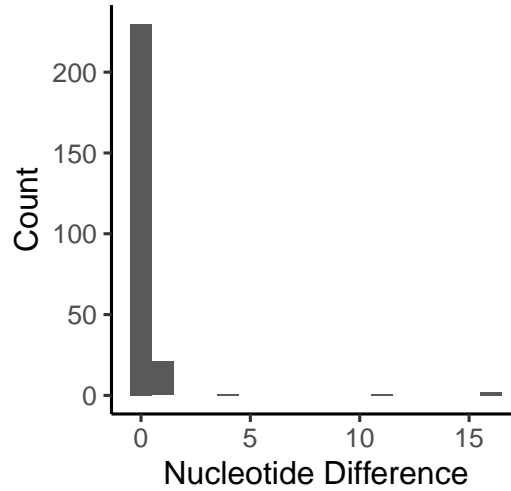
IGHV3-48*03

1260 sequences assigned
989 (78.5%) exact matches, in which:
926 unique CDR3
6 unique J



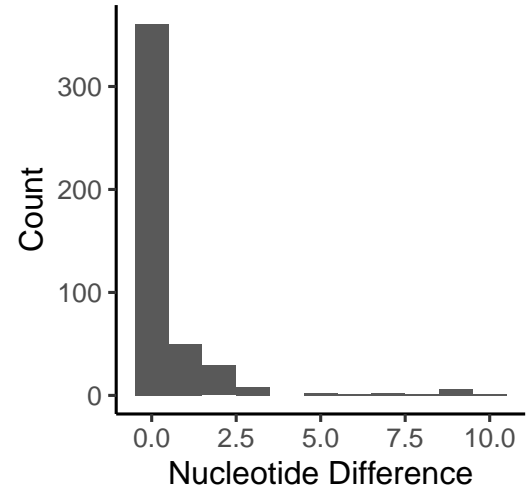
IGHV3-49*04

255 sequences assigned
230 (90.2%) exact matches, in which:
221 unique CDR3
6 unique J



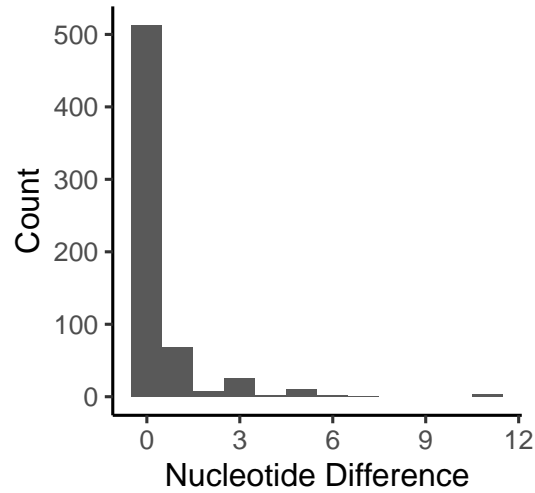
IGHV3-66*01

461 sequences assigned
361 (78.3%) exact matches, in which:
315 unique CDR3
6 unique J



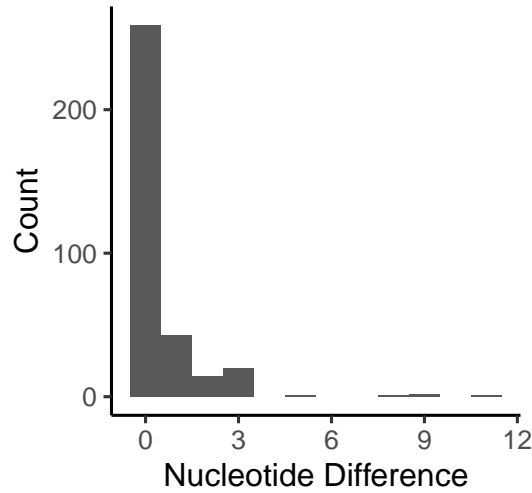
IGHV3-48*04

634 sequences assigned
513 (80.9%) exact matches, in which:
484 unique CDR3
6 unique J



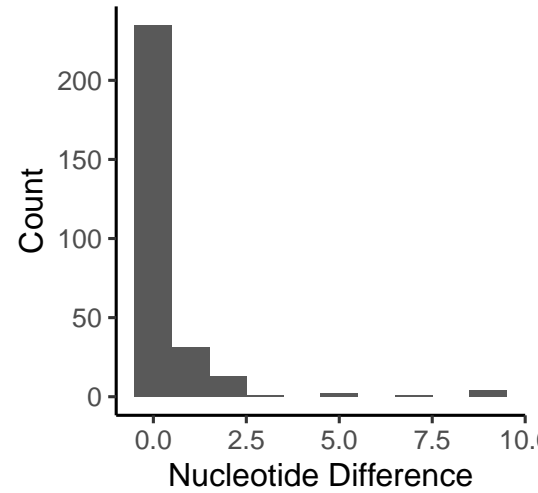
IGHV3-53*04

341 sequences assigned
259 (76%) exact matches, in which:
239 unique CDR3
5 unique J



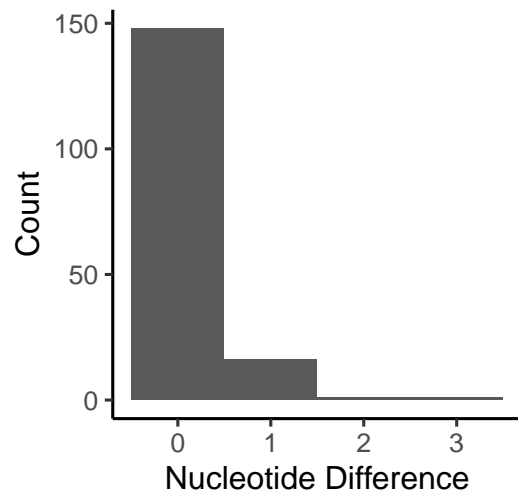
IGHV3-66*02

287 sequences assigned
235 (81.9%) exact matches, in which:
217 unique CDR3
6 unique J



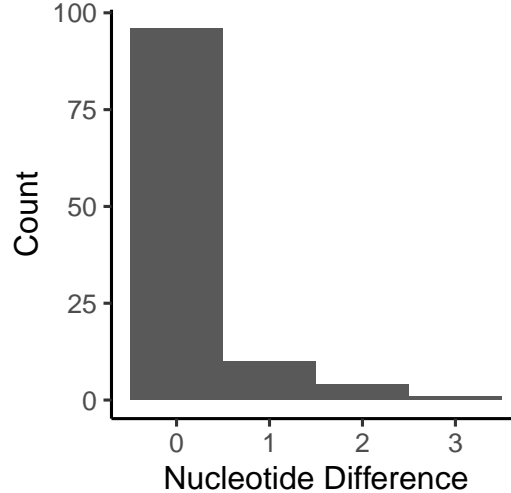
IGHV3-49*03

166 sequences assigned
148 (89.2%) exact matches, in which:
140 unique CDR3
6 unique J



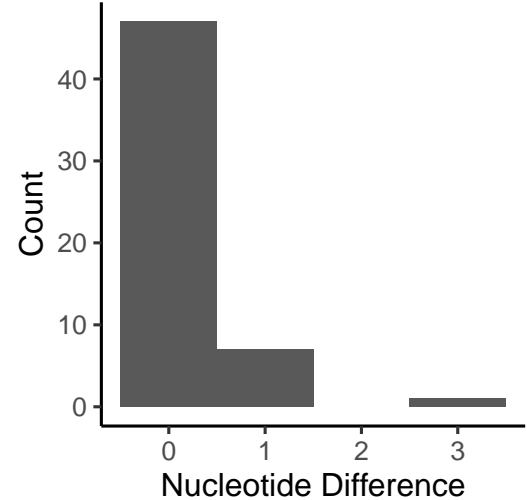
IGHV3-64*01

111 sequences assigned
96 (86.5%) exact matches, in which:
91 unique CDR3
6 unique J



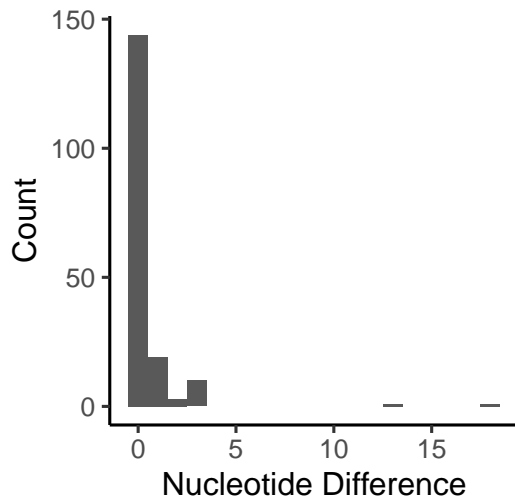
IGHV3-72*01

55 sequences assigned
47 (85.5%) exact matches, in which:
43 unique CDR3
4 unique J



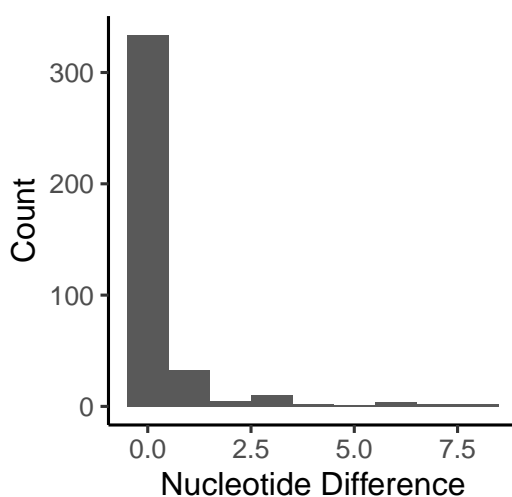
IGHV3-73*01

178 sequences assigned
144 (80.9%) exact matches, in which:
134 unique CDR3
5 unique J



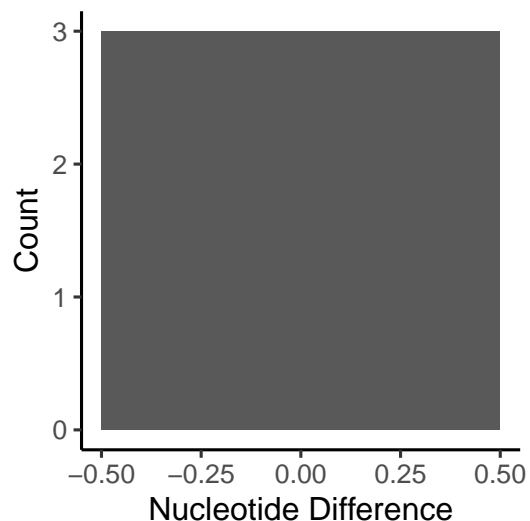
IGHV3-64D*06

393 sequences assigned
334 (85%) exact matches, in which:
313 unique CDR3
6 unique J



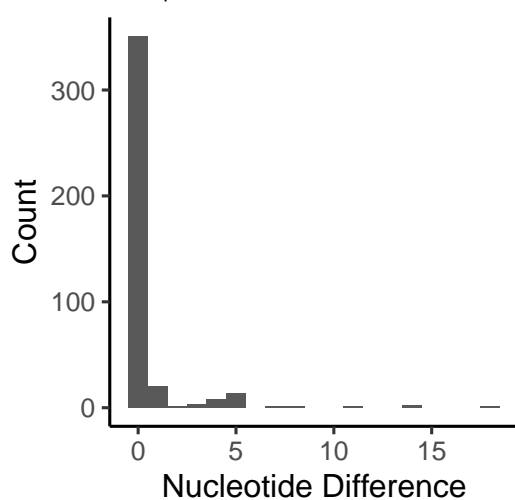
IGHV4-28*07

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



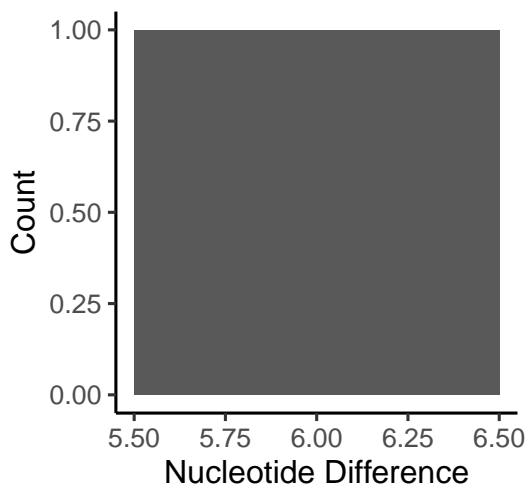
IGHV3-74*01

404 sequences assigned
351 (86.9%) exact matches, in which:
343 unique CDR3
6 unique J



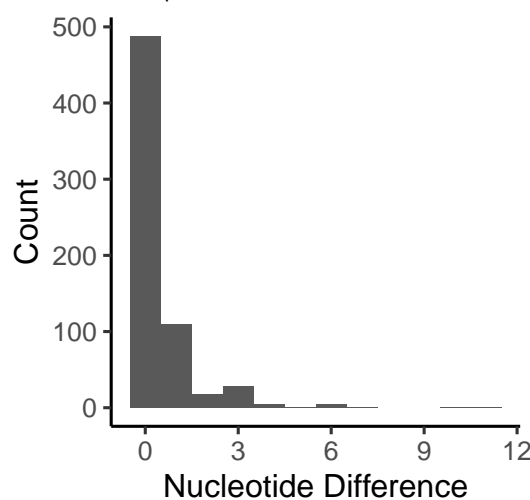
IGHV3-NL1*01

1 sequences assigned
No exact matches.



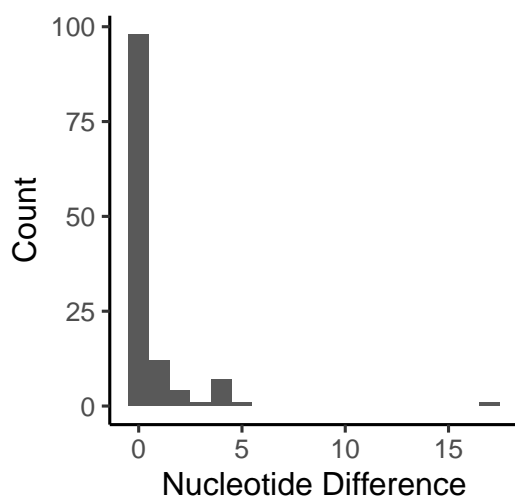
IGHV4-30-4*01

656 sequences assigned
488 (74.4%) exact matches, in which:
451 unique CDR3
6 unique J



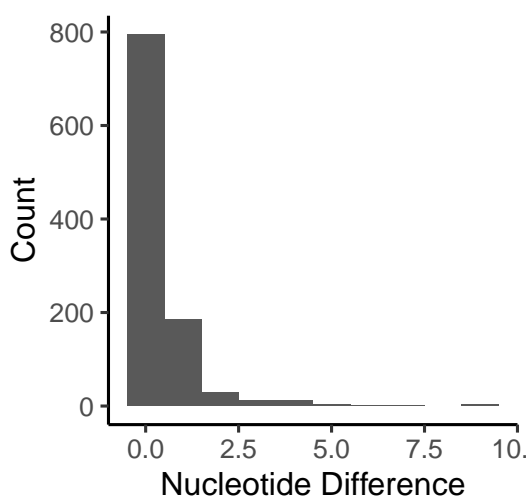
IGHV3-43D*03

125 sequences assigned
98 (78.4%) exact matches, in which:
95 unique CDR3
6 unique J



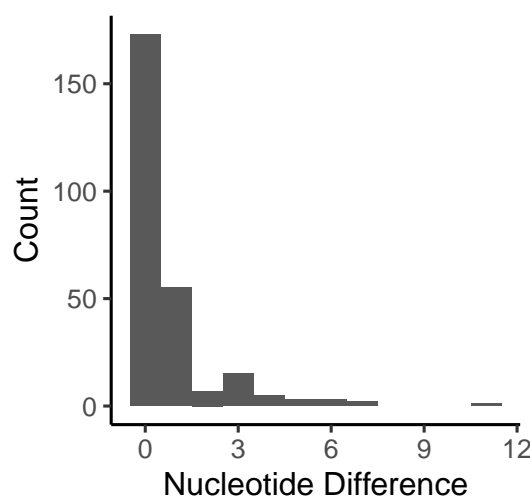
IGHV4-4*02

1041 sequences assigned
795 (76.4%) exact matches, in which:
750 unique CDR3
6 unique J



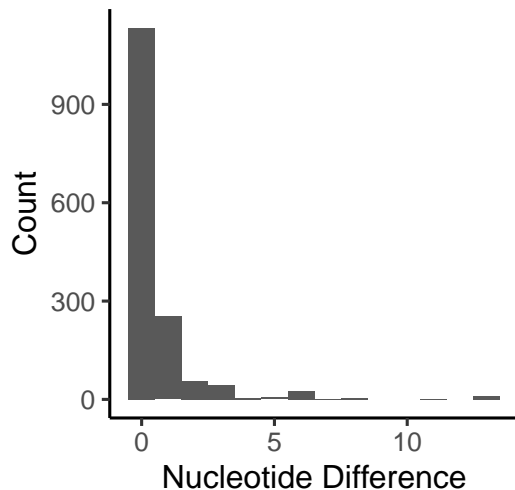
IGHV4-30-2*01

264 sequences assigned
173 (65.5%) exact matches, in which:
158 unique CDR3
5 unique J



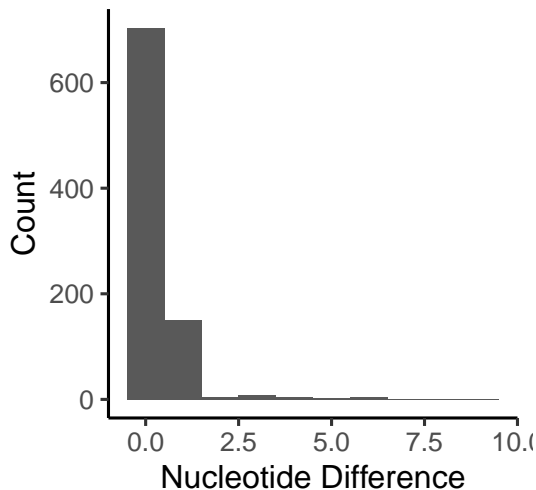
IGHV4-31*03

1540 sequences assigned
1134 (73.6%) exact matches, in which:
1057 unique CDR3
6 unique J



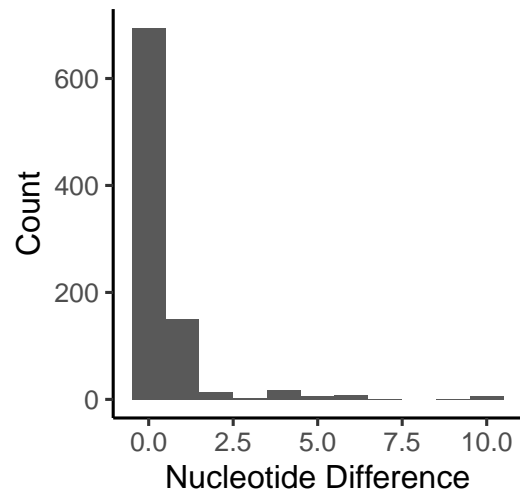
IGHV4-39*01

882 sequences assigned
704 (79.8%) exact matches, in which:
686 unique CDR3
6 unique J



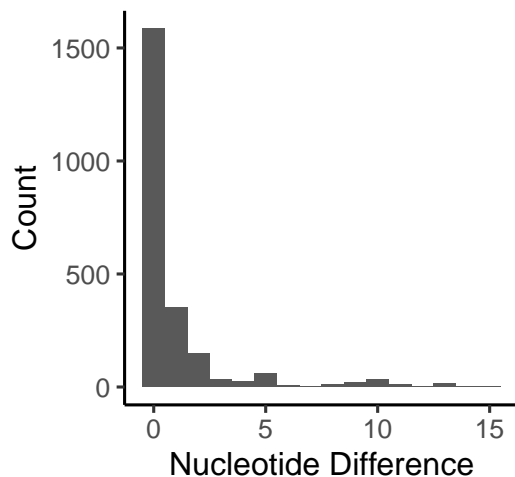
IGHV4-59*08

902 sequences assigned
695 (77.1%) exact matches, in which:
654 unique CDR3
6 unique J



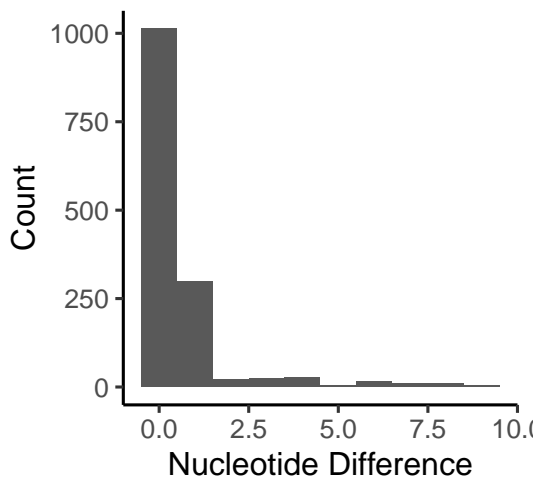
IGHV4-34*01

2312 sequences assigned
1585 (68.6%) exact matches, in which:
1482 unique CDR3
6 unique J



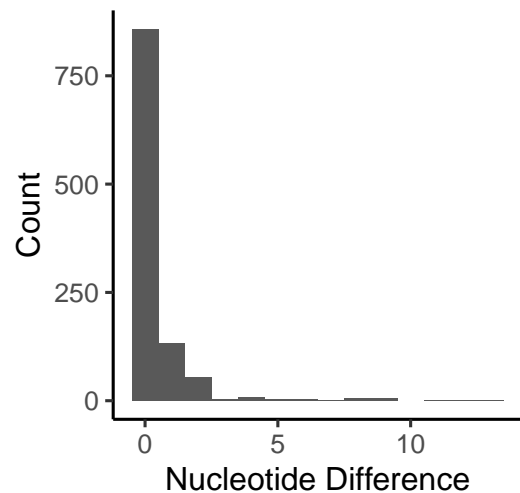
IGHV4-39*07

1430 sequences assigned
1013 (70.8%) exact matches, in which:
972 unique CDR3
6 unique J



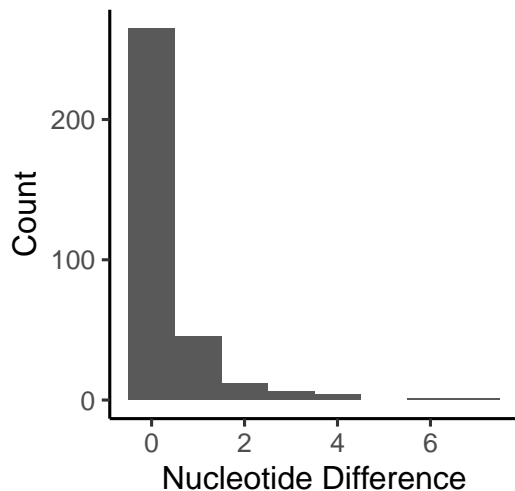
IGHV4-61*02

1080 sequences assigned
858 (79.4%) exact matches, in which:
826 unique CDR3
6 unique J



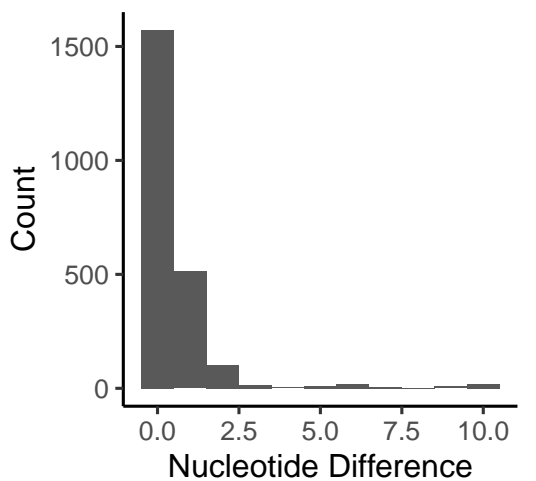
IGHV4-38-2*02

334 sequences assigned
265 (79.3%) exact matches, in which:
261 unique CDR3
6 unique J



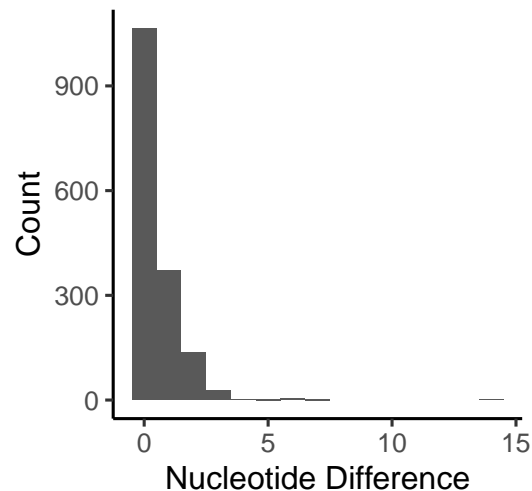
IGHV4-59*01

2267 sequences assigned
1572 (69.3%) exact matches, in which:
1434 unique CDR3
6 unique J



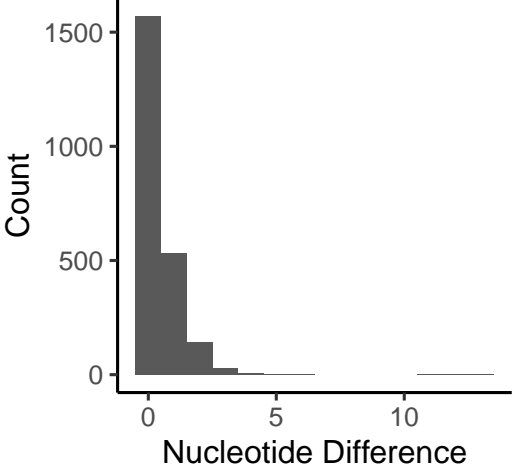
IGHV5-10-1*01

1611 sequences assigned
1065 (66.1%) exact matches, in which:
1016 unique CDR3
6 unique J



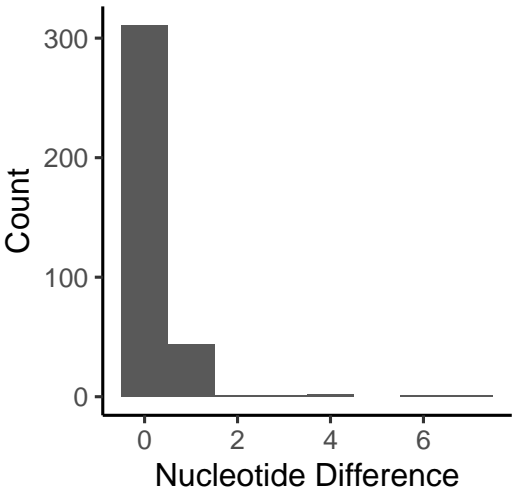
IGHV5–51*01

2286 sequences assigned
1569 (68.6%) exact matches, in which:
1441 unique CDR3
6 unique J



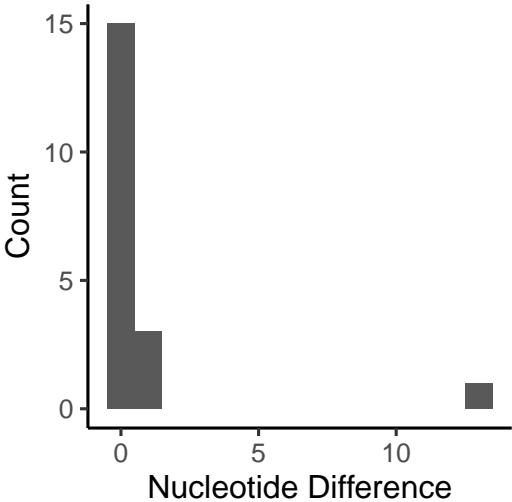
IGHV6–1*01

361 sequences assigned
311 (86.1%) exact matches, in which:
284 unique CDR3
6 unique J



IGHV7–4–1*01

19 sequences assigned
15 (78.9%) exact matches, in which:
15 unique CDR3
3 unique J





Warning – no inferred sequences found.