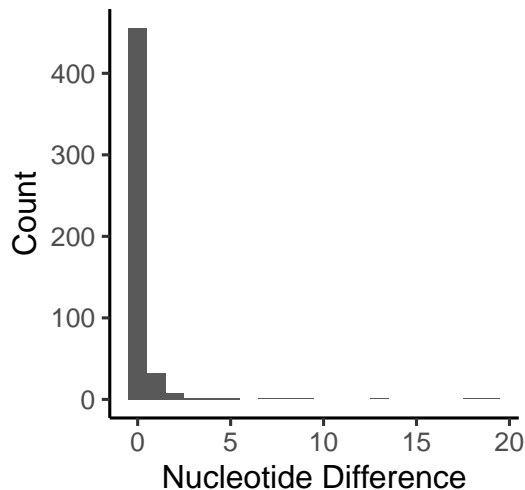


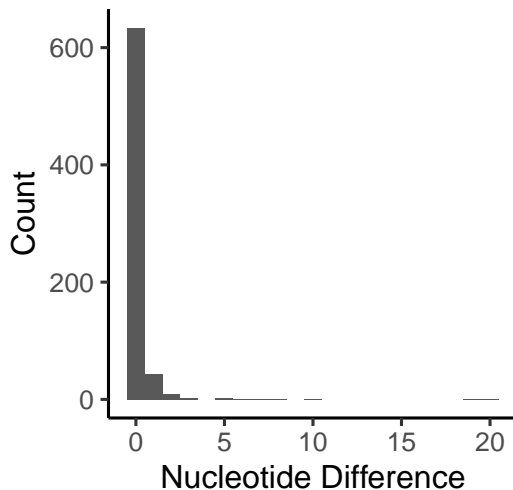
IGHV1-2*04

508 sequences assigned
456 (89.8%) exact matches, in which:
430 unique CDR3
6 unique J



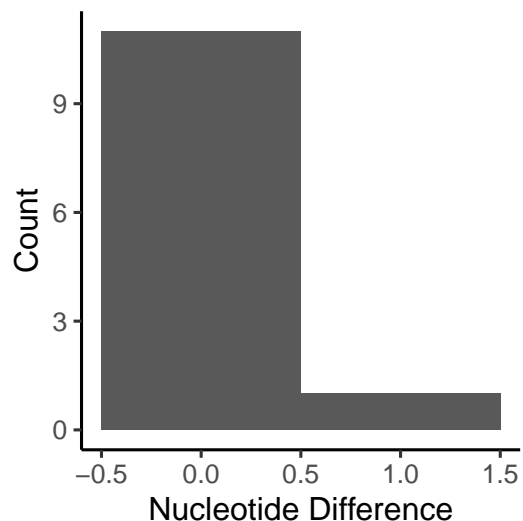
IGHV1-8*01

699 sequences assigned
634 (90.7%) exact matches, in which:
596 unique CDR3
6 unique J



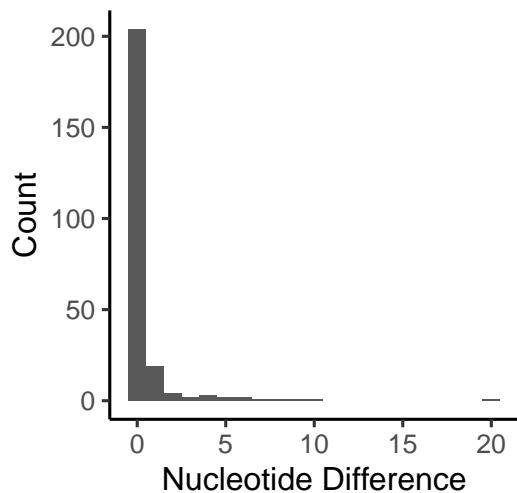
IGHV1-45*02

12 sequences assigned
11 (91.7%) exact matches, in which:
9 unique CDR3
4 unique J



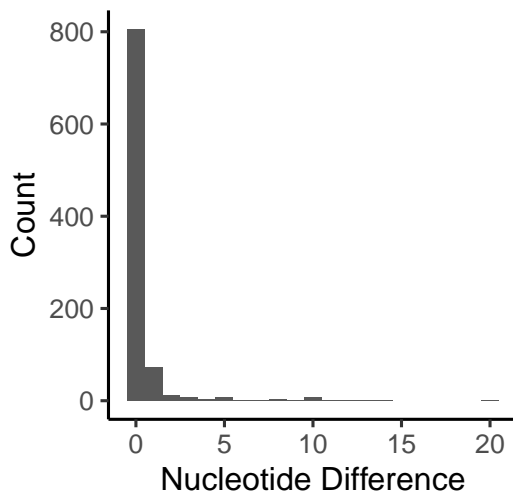
IGHV1-3*01

245 sequences assigned
204 (83.3%) exact matches, in which:
195 unique CDR3
6 unique J



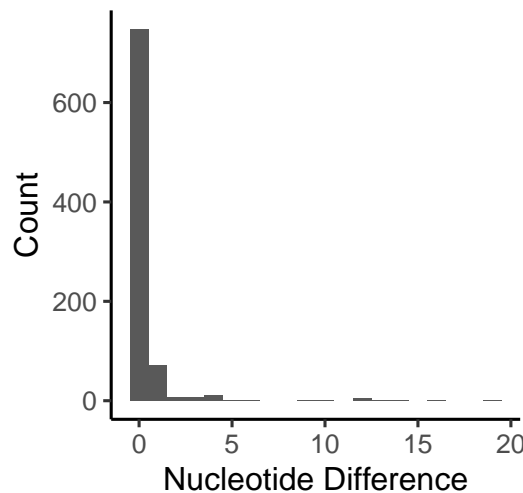
IGHV1-18*01

933 sequences assigned
806 (86.4%) exact matches, in which:
768 unique CDR3
6 unique J



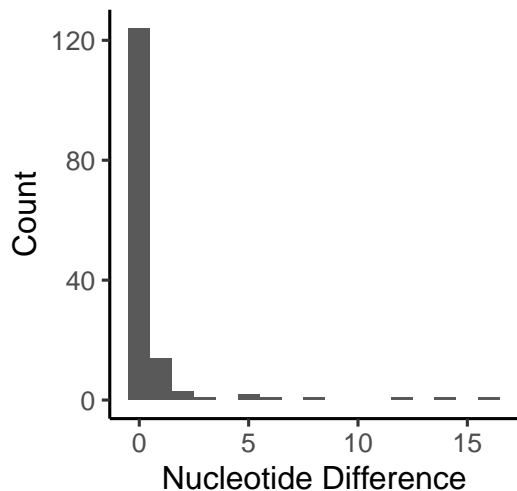
IGHV1-46*01

865 sequences assigned
748 (86.5%) exact matches, in which:
706 unique CDR3
6 unique J



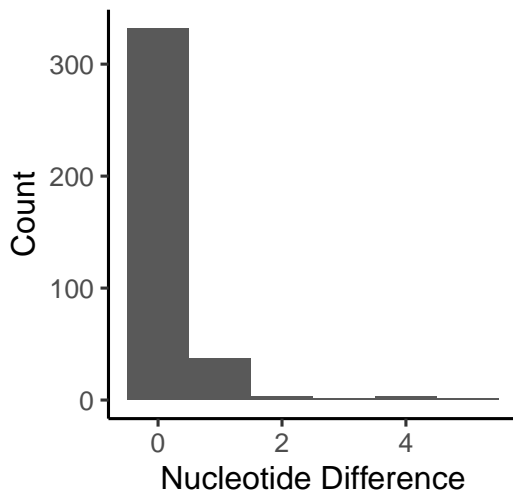
IGHV1-3*05

150 sequences assigned
124 (82.7%) exact matches, in which:
120 unique CDR3
6 unique J



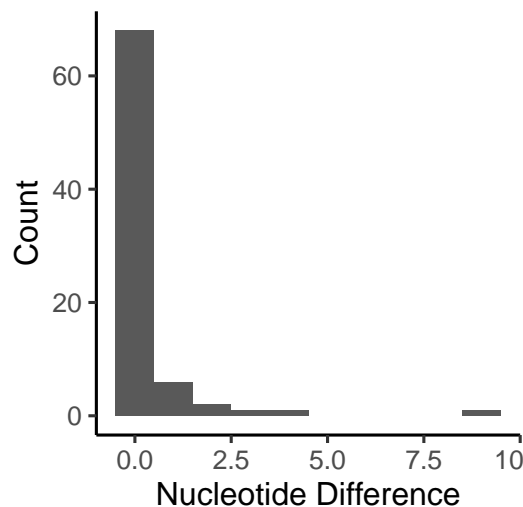
IGHV1-24*01

377 sequences assigned
332 (88.1%) exact matches, in which:
311 unique CDR3
6 unique J



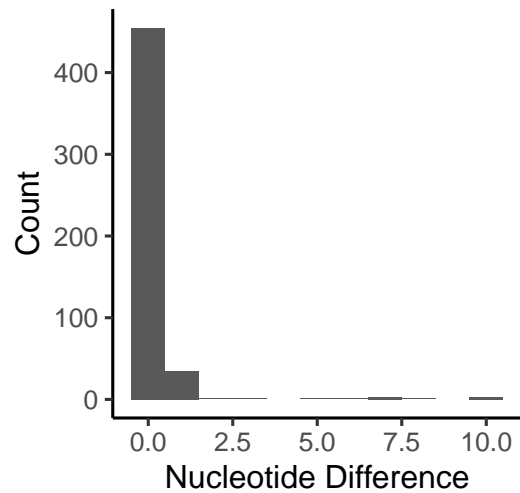
IGHV1-58*02

79 sequences assigned
68 (86.1%) exact matches, in which:
66 unique CDR3
5 unique J



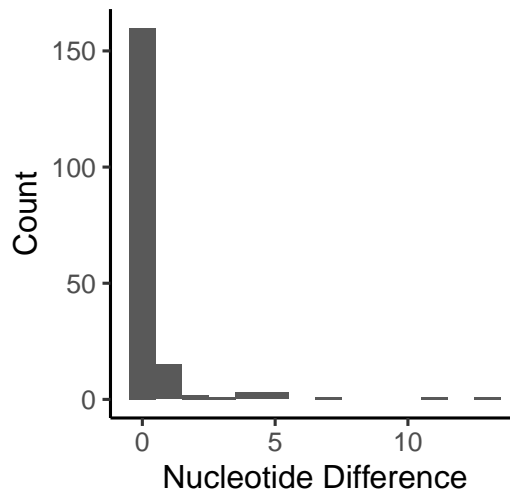
IGHV1–69*09

501 sequences assigned
455 (90.8%) exact matches, in which:
435 unique CDR3
6 unique J



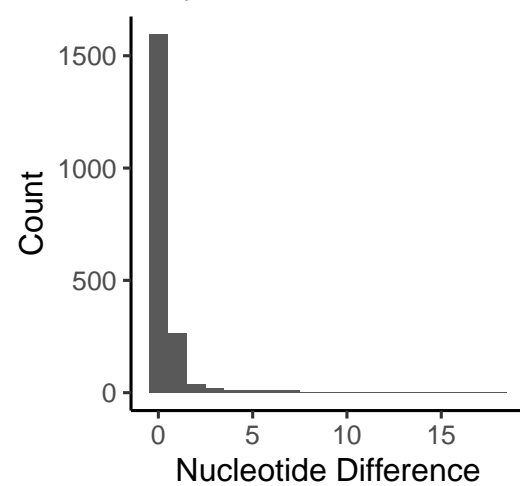
IGHV2–26*01

187 sequences assigned
160 (85.6%) exact matches, in which:
158 unique CDR3
5 unique J



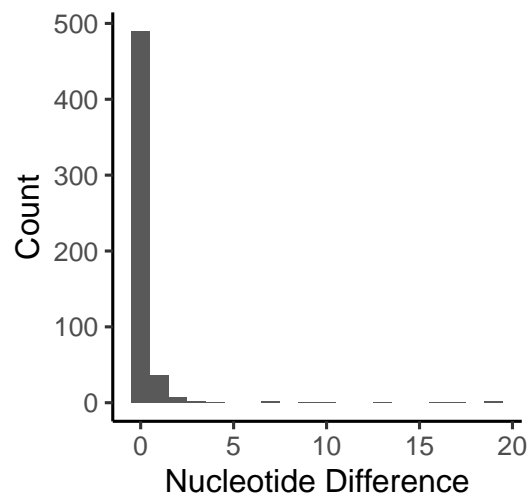
IGHV3–9*01

1988 sequences assigned
1595 (80.2%) exact matches, in which:
1426 unique CDR3
6 unique J



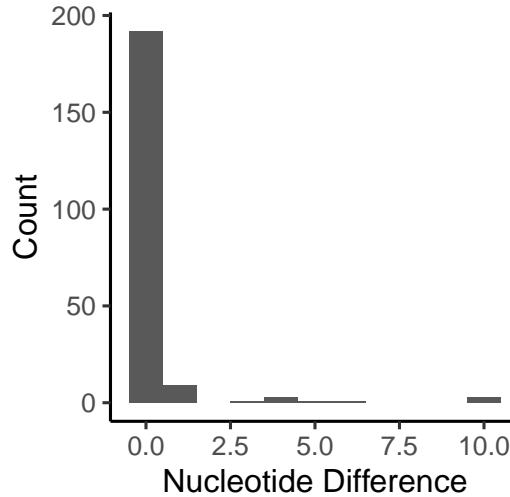
IGHV1–69*08_C191T

547 sequences assigned
490 (89.6%) exact matches, in which:
455 unique CDR3
6 unique J



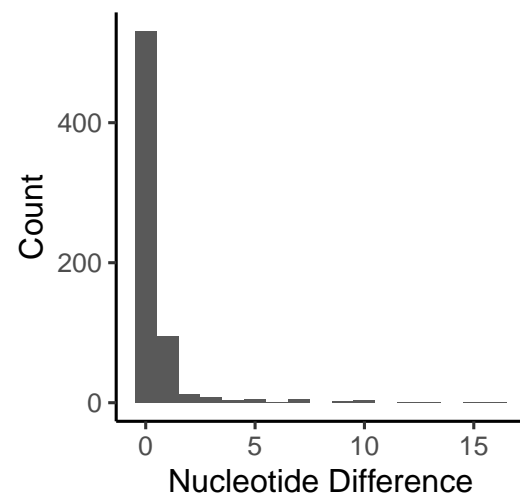
IGHV2–70*15

210 sequences assigned
192 (91.4%) exact matches, in which:
186 unique CDR3
5 unique J



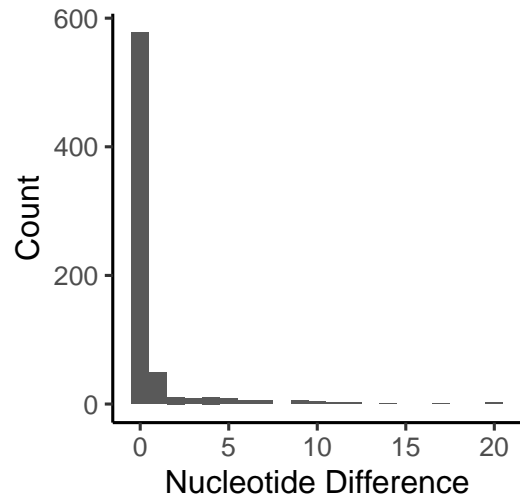
IGHV3–11*01

672 sequences assigned
531 (79%) exact matches, in which:
491 unique CDR3
6 unique J



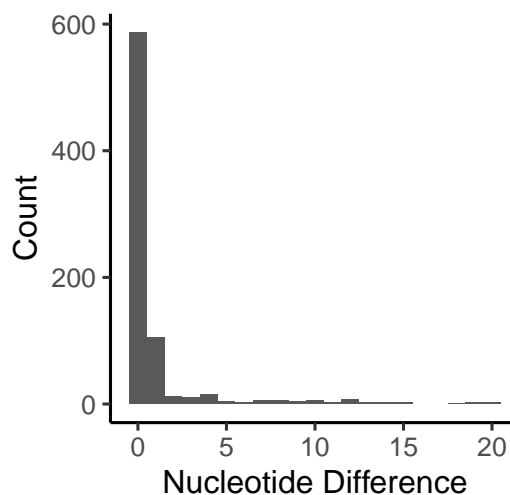
IGHV2–5*02

708 sequences assigned
578 (81.6%) exact matches, in which:
556 unique CDR3
6 unique J



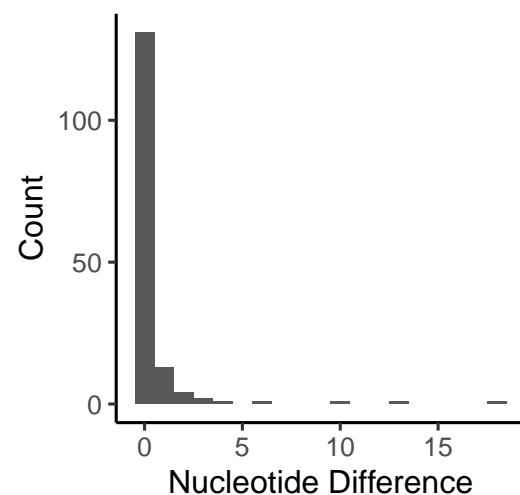
IGHV3–7*01

783 sequences assigned
587 (75%) exact matches, in which:
550 unique CDR3
6 unique J



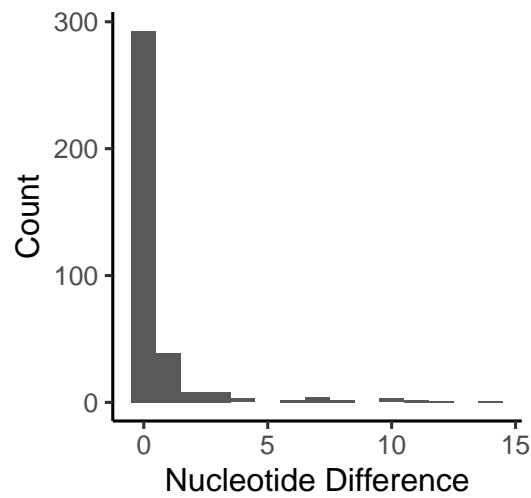
IGHV3–13*01

155 sequences assigned
131 (84.5%) exact matches, in which:
127 unique CDR3
5 unique J



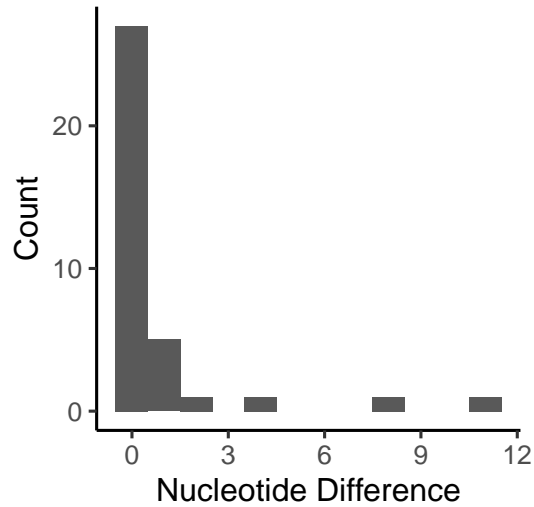
IGHV3-15*01

366 sequences assigned
293 (80.1%) exact matches, in which:
273 unique CDR3
6 unique J



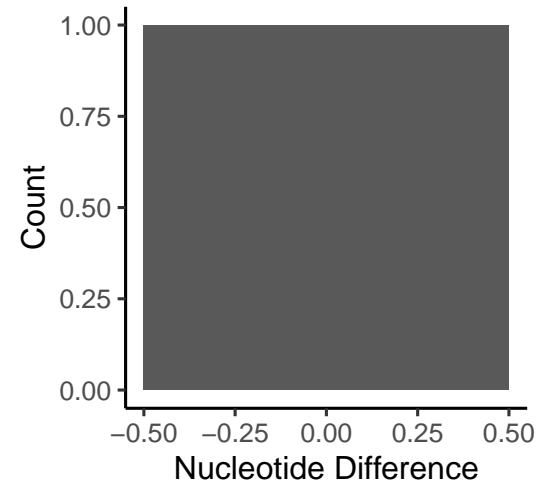
IGHV3-20*04

37 sequences assigned
27 (73%) exact matches, in which:
23 unique CDR3
5 unique J



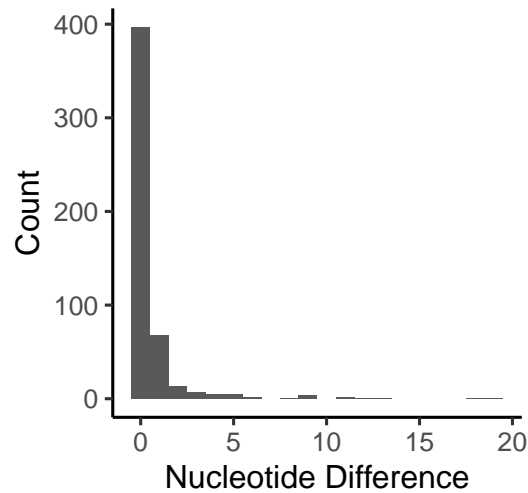
IGHV3-35*01

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



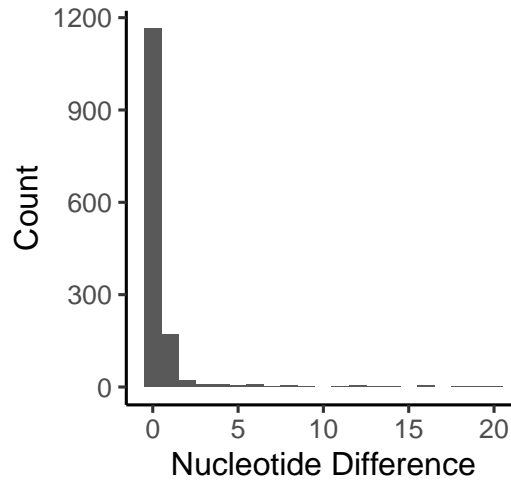
IGHV3-15*07

510 sequences assigned
397 (77.8%) exact matches, in which:
372 unique CDR3
6 unique J



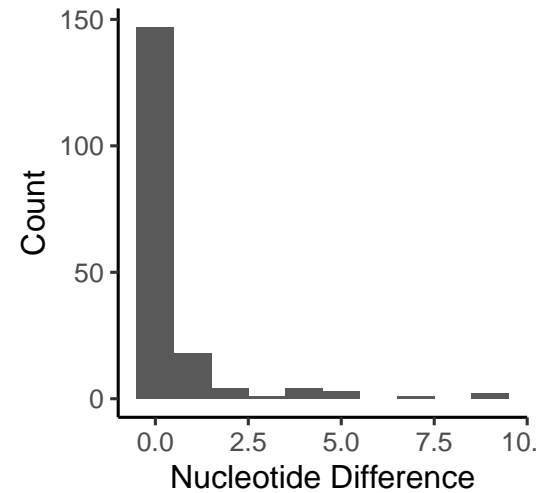
IGHV3-21*01

1411 sequences assigned
1164 (82.5%) exact matches, in which:
1060 unique CDR3
6 unique J



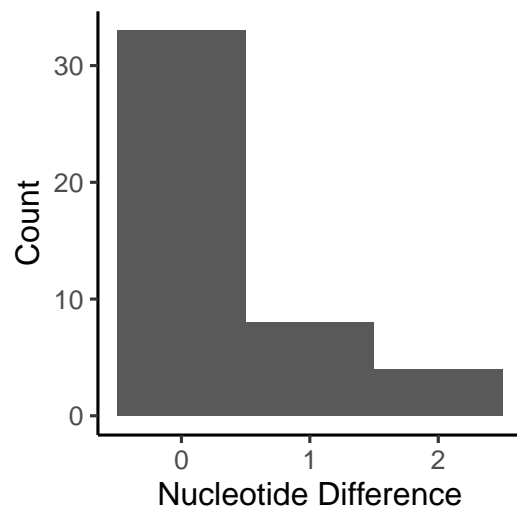
IGHV3-43*01

180 sequences assigned
147 (81.7%) exact matches, in which:
131 unique CDR3
6 unique J



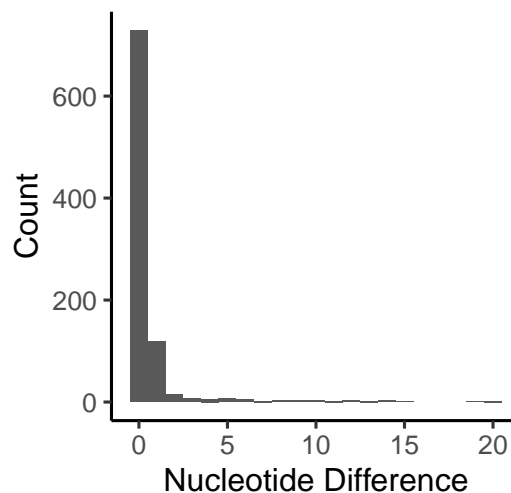
IGHV3-20*01

45 sequences assigned
33 (73.3%) exact matches, in which:
30 unique CDR3
5 unique J



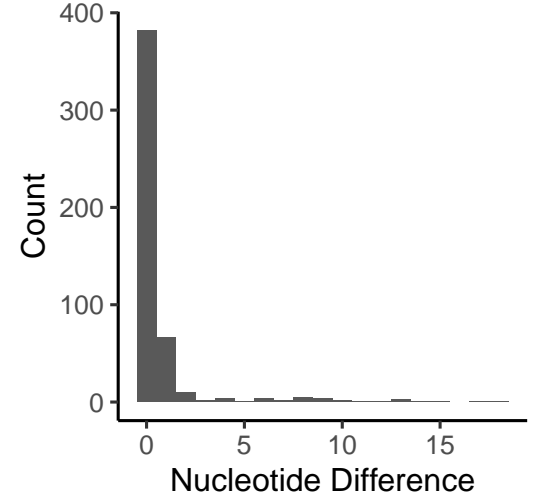
IGHV3-33*01

922 sequences assigned
729 (79.1%) exact matches, in which:
643 unique CDR3
6 unique J



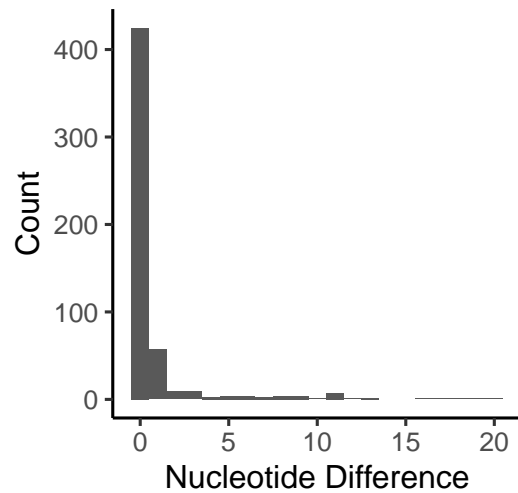
IGHV3-48*02

493 sequences assigned
382 (77.5%) exact matches, in which:
362 unique CDR3
6 unique J



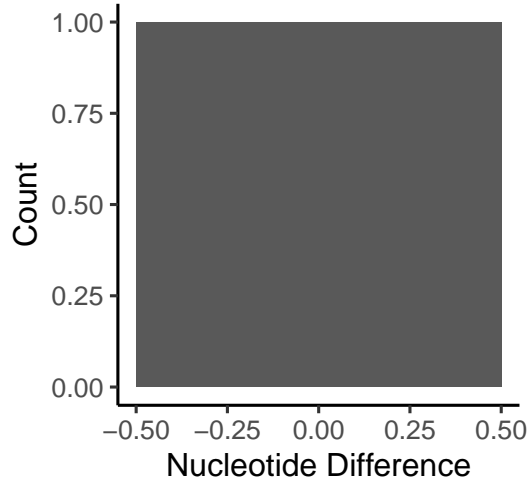
IGHV3–48*04

539 sequences assigned
425 (78.8%) exact matches, in which:
402 unique CDR3
6 unique J



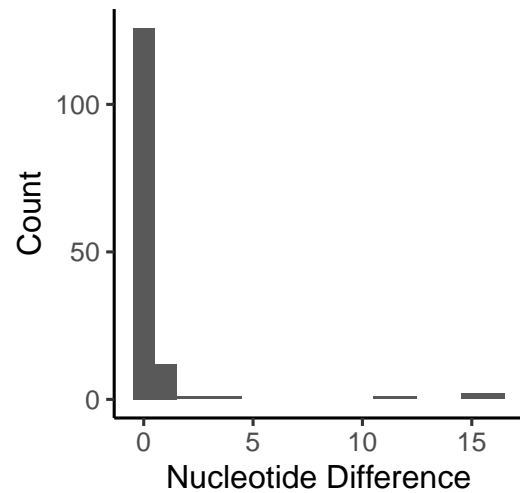
IGHV3–52*01

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



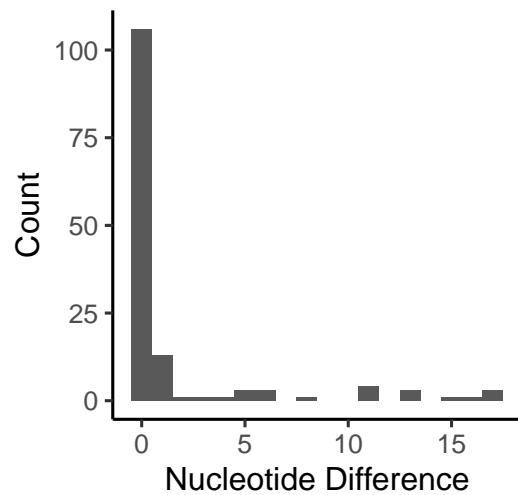
IGHV3–64*01

148 sequences assigned
126 (85.1%) exact matches, in which:
115 unique CDR3
5 unique J



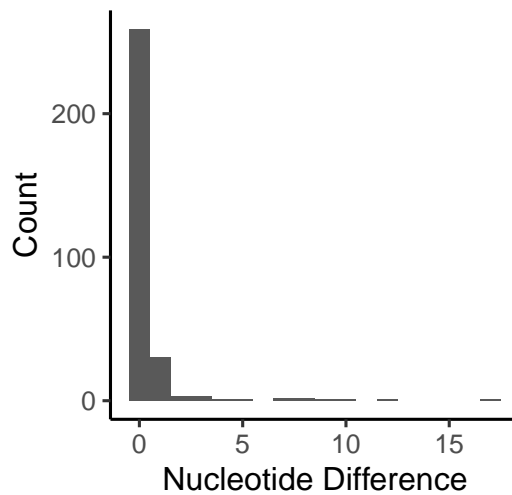
IGHV3–49*03

141 sequences assigned
106 (75.2%) exact matches, in which:
98 unique CDR3
5 unique J



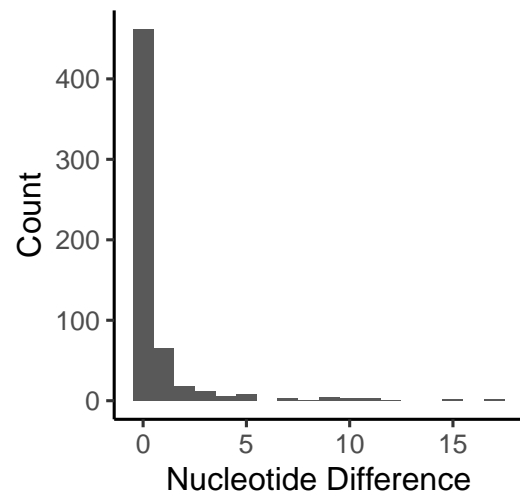
IGHV3–53*01

305 sequences assigned
259 (84.9%) exact matches, in which:
238 unique CDR3
6 unique J



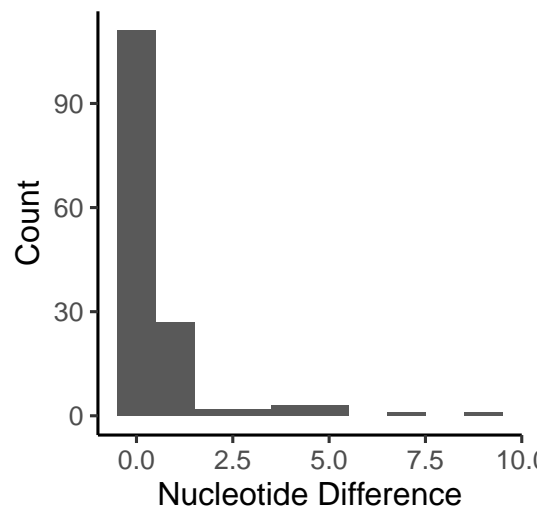
IGHV3–66*01

594 sequences assigned
462 (77.8%) exact matches, in which:
411 unique CDR3
6 unique J



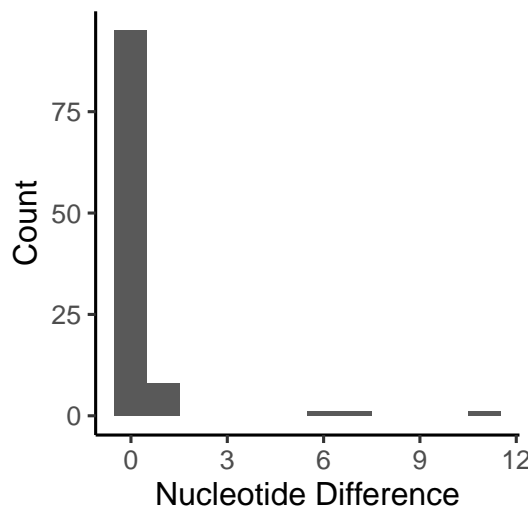
IGHV3–49*05

150 sequences assigned
111 (74%) exact matches, in which:
104 unique CDR3
6 unique J



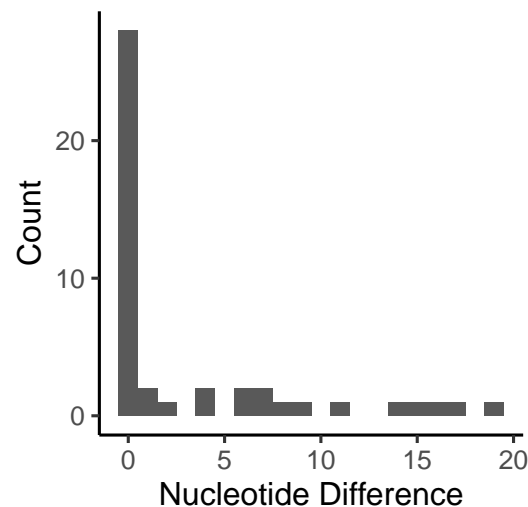
IGHV3–53*04

106 sequences assigned
95 (89.6%) exact matches, in which:
86 unique CDR3
6 unique J



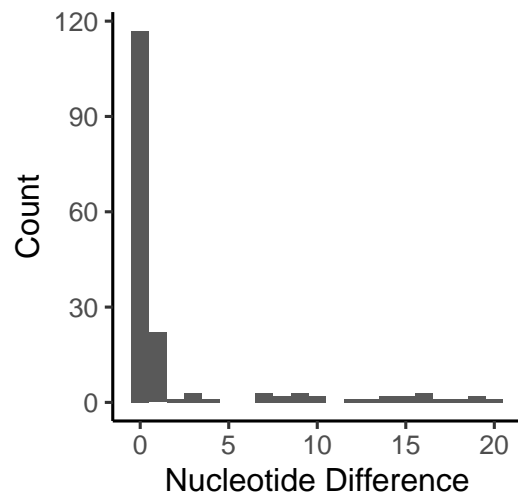
IGHV3–72*01

45 sequences assigned
28 (62.2%) exact matches, in which:
24 unique CDR3
5 unique J



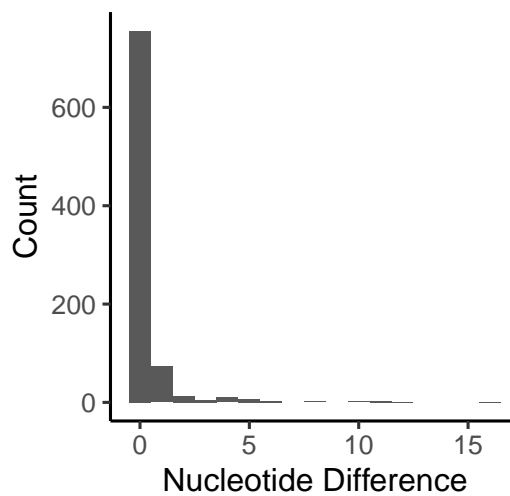
IGHV3-73*01

172 sequences assigned
117 (68%) exact matches, in which:
114 unique CDR3
5 unique J



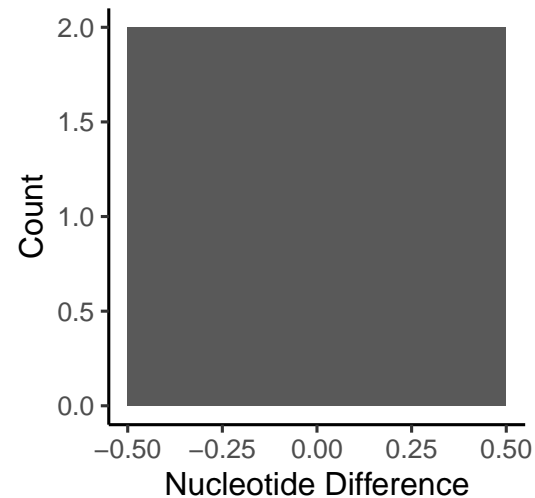
IGHV4-4*02

876 sequences assigned
756 (86.3%) exact matches, in which:
729 unique CDR3
6 unique J



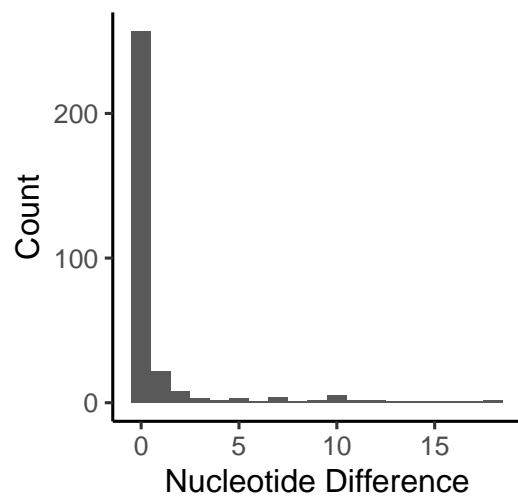
IGHV4-28*05

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



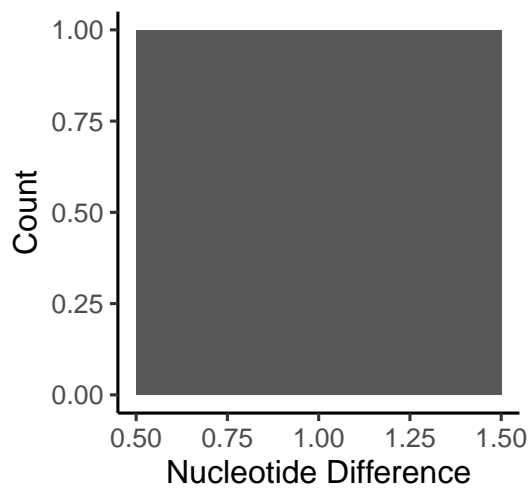
IGHV3-74*01

321 sequences assigned
257 (80.1%) exact matches, in which:
237 unique CDR3
6 unique J



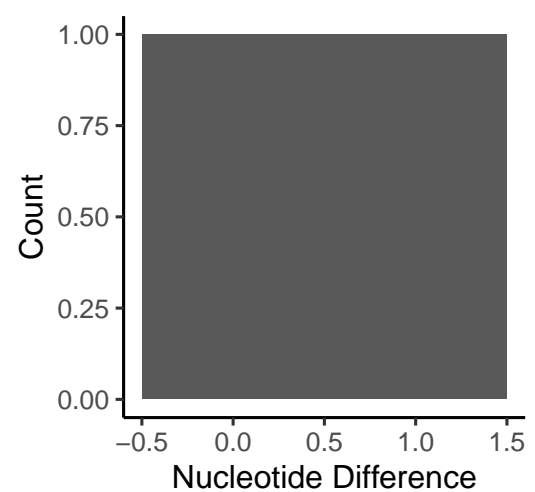
IGHV4-28*03

1 sequences assigned
No exact matches.



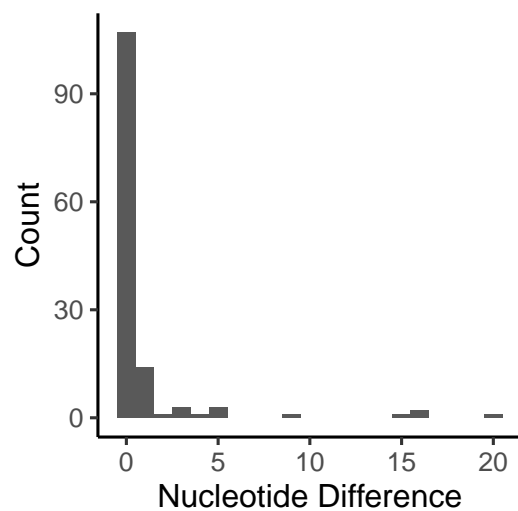
IGHV4-28*07

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



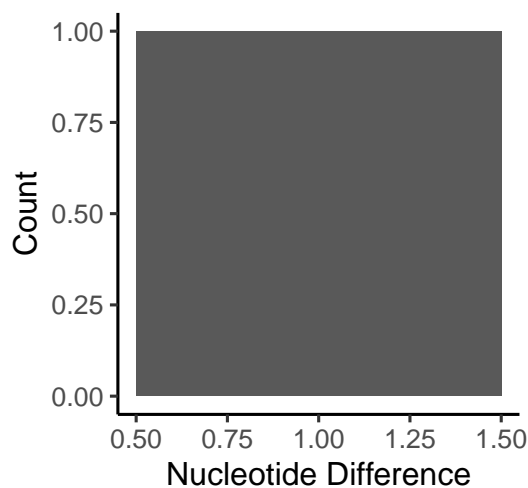
IGHV3-43D*03

134 sequences assigned
107 (79.9%) exact matches, in which:
95 unique CDR3
6 unique J



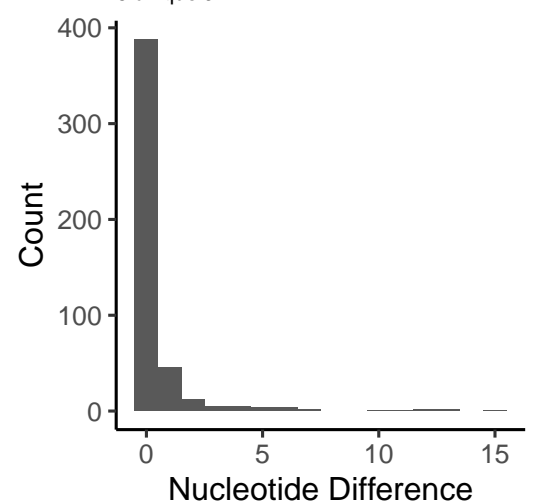
IGHV4-28*04

1 sequences assigned
No exact matches.



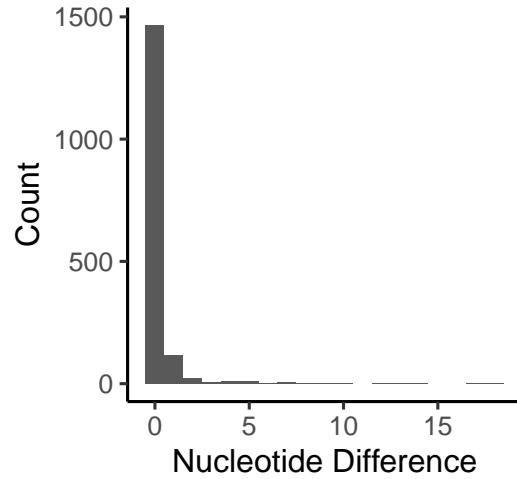
IGHV4-31*03

474 sequences assigned
388 (81.9%) exact matches, in which:
368 unique CDR3
6 unique J



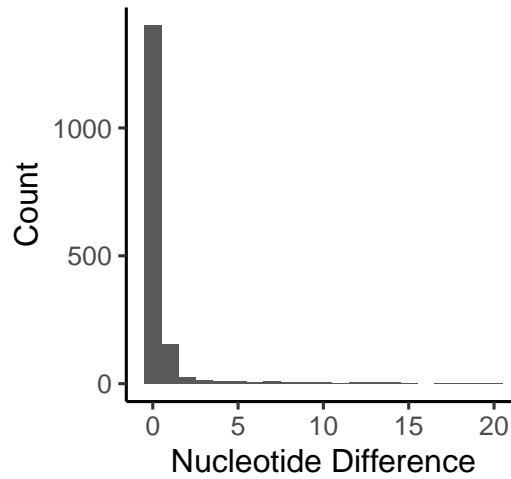
IGHV4-34*01

1663 sequences assigned
1465 (88.1%) exact matches, in which:
1356 unique CDR3
6 unique J



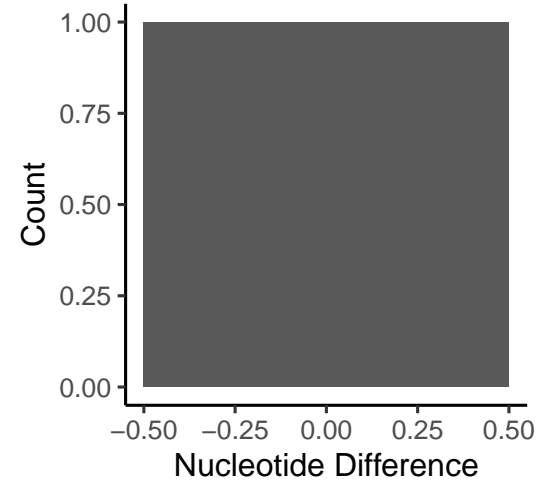
IGHV4-39*07

1678 sequences assigned
1401 (83.5%) exact matches, in which:
1292 unique CDR3
6 unique J



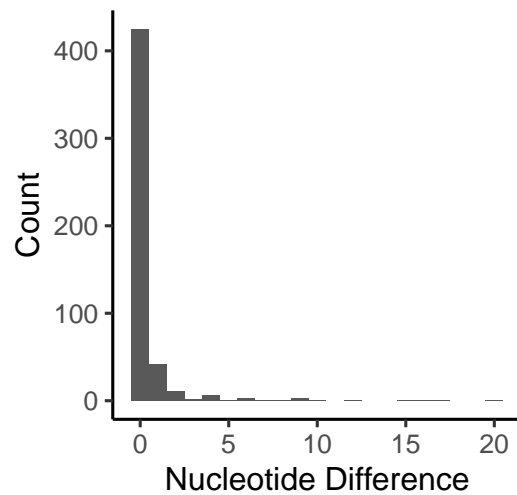
IGHV4-61*02

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



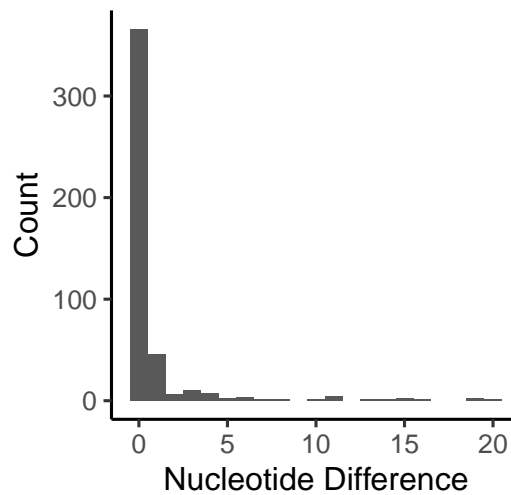
IGHV4-38-2*02

502 sequences assigned
425 (84.7%) exact matches, in which:
394 unique CDR3
6 unique J



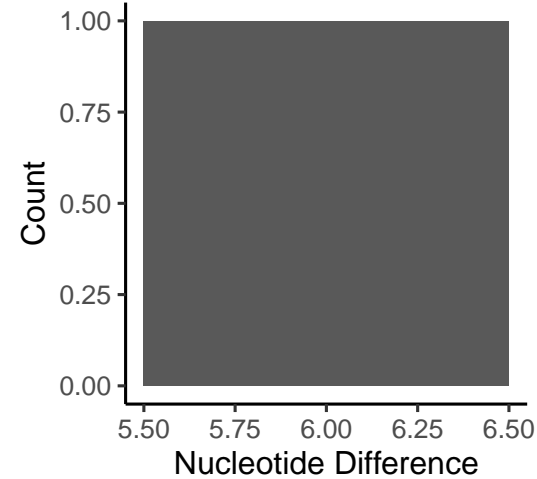
IGHV4-59*01

458 sequences assigned
366 (79.9%) exact matches, in which:
351 unique CDR3
6 unique J



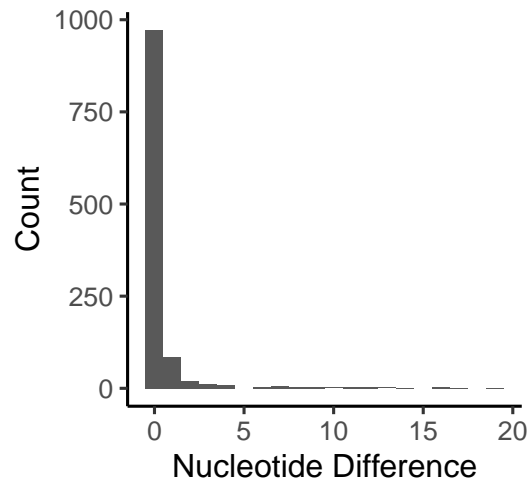
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



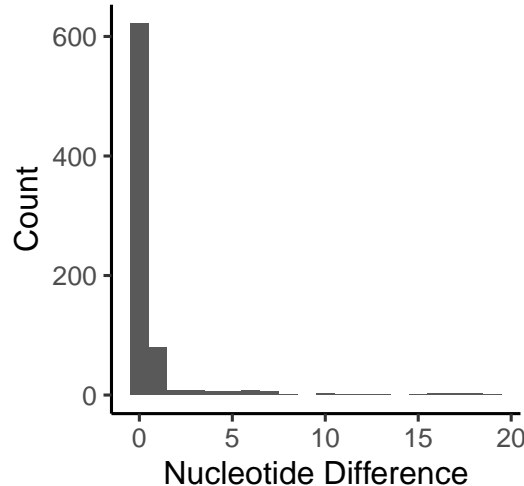
IGHV4-39*01

1136 sequences assigned
972 (85.6%) exact matches, in which:
900 unique CDR3
6 unique J



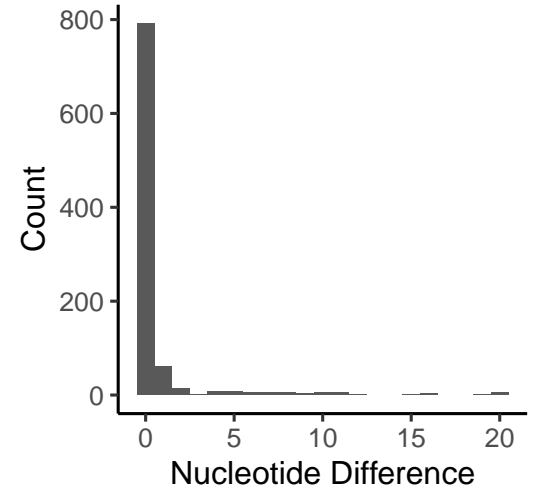
IGHV4-59*08

757 sequences assigned
622 (82.2%) exact matches, in which:
585 unique CDR3
6 unique J



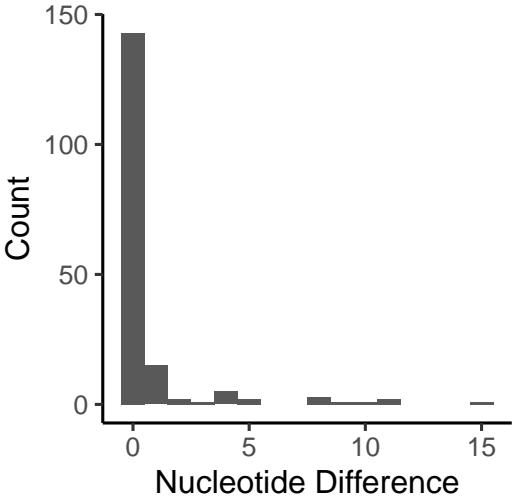
IGHV5-51*01

931 sequences assigned
792 (85.1%) exact matches, in which:
742 unique CDR3
6 unique J



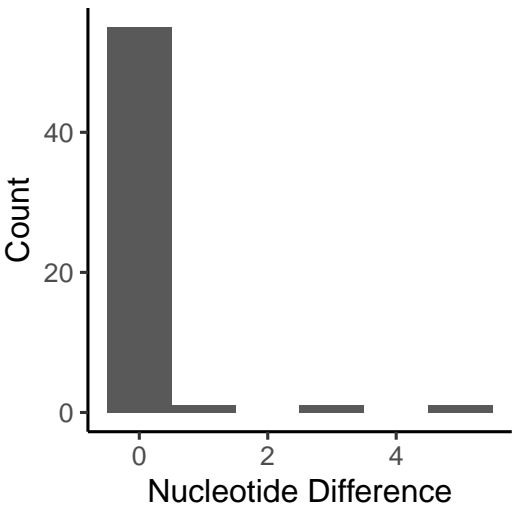
IGHV6-1*01

176 sequences assigned
143 (81.2%) exact matches, in which:
134 unique CDR3
6 unique J



IGHV7-4-1*01

58 sequences assigned
55 (94.8%) exact matches, in which:
54 unique CDR3
5 unique J





Warning – no inferred sequences found.