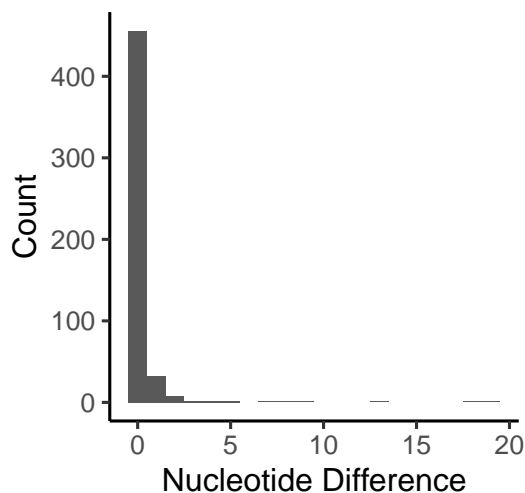


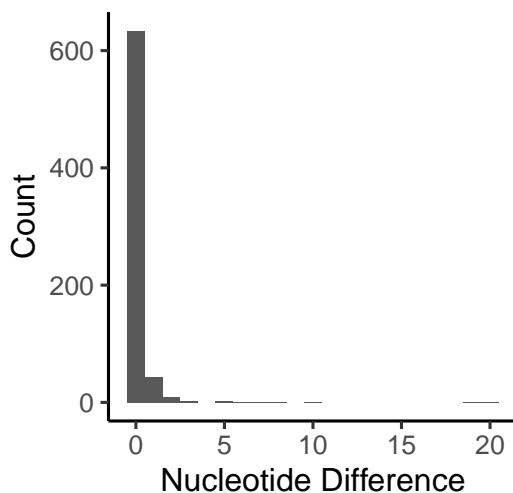
IGHV1-2*04

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



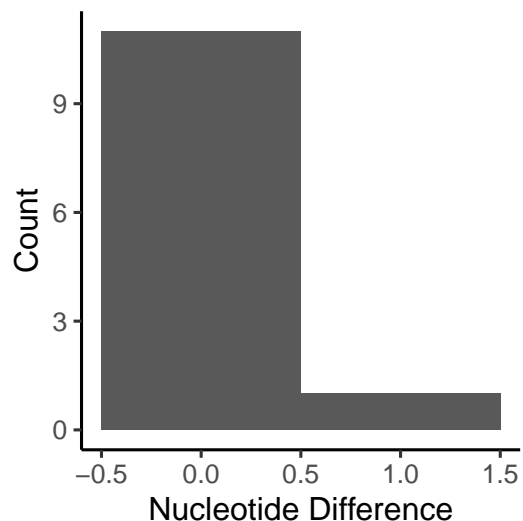
IGHV1-8*01

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



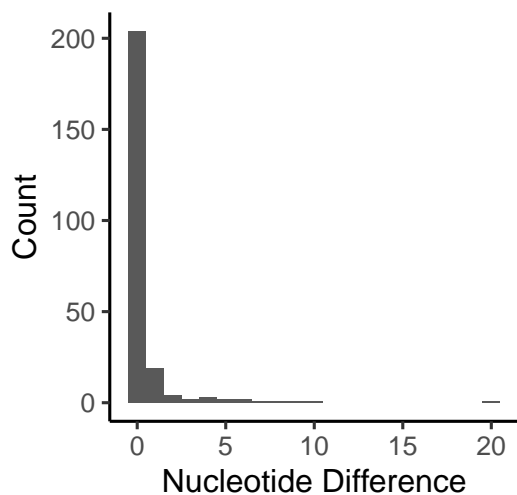
IGHV1-45*02

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



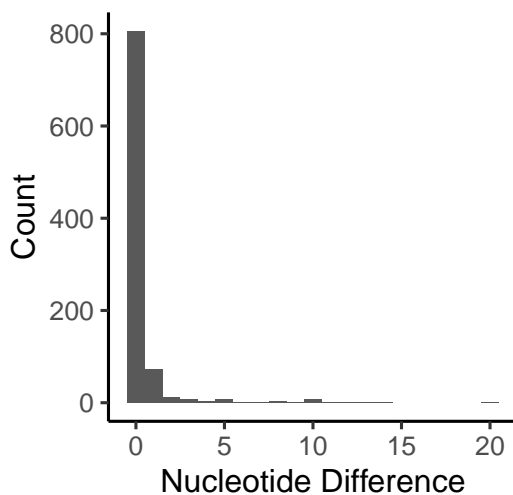
IGHV1-3*01

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



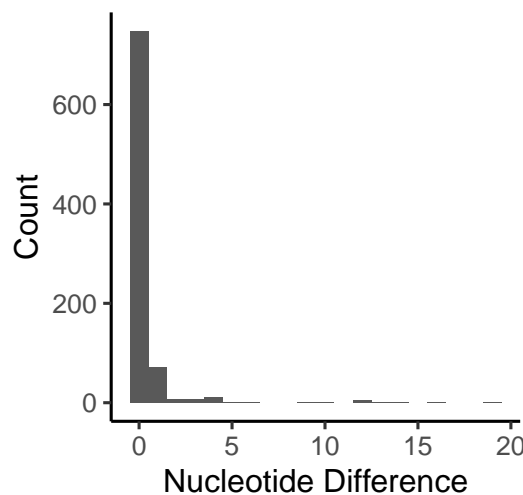
IGHV1-18*01

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



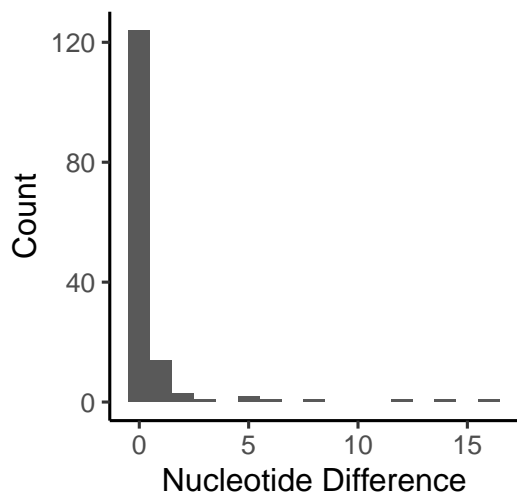
IGHV1-46*01

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



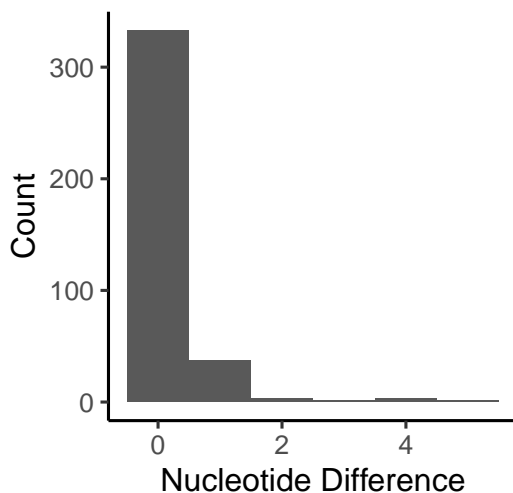
IGHV1-3*05

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



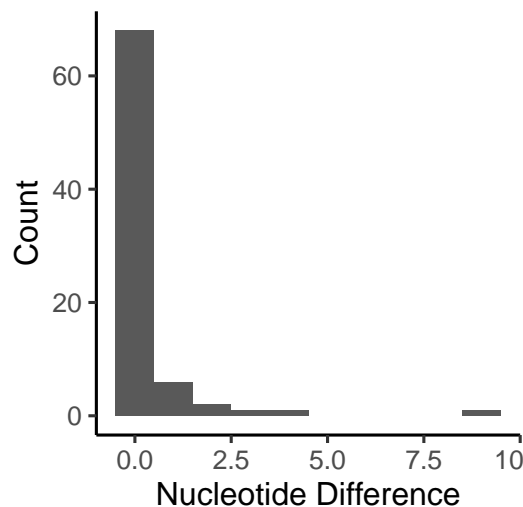
IGHV1-24*01

378 sequences assigned
333 (88.1%) exact matches, in which:
312 unique CDR3
6 unique J



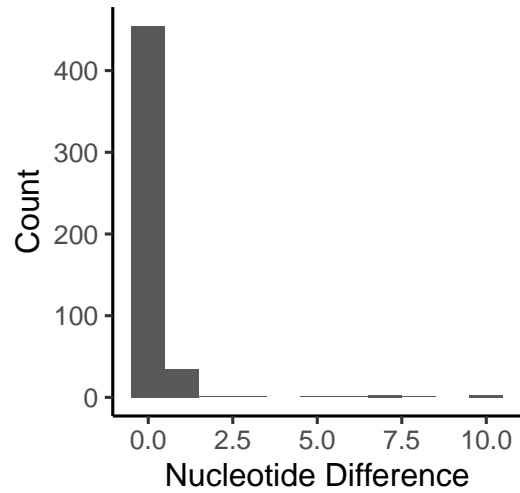
IGHV1-58*02

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



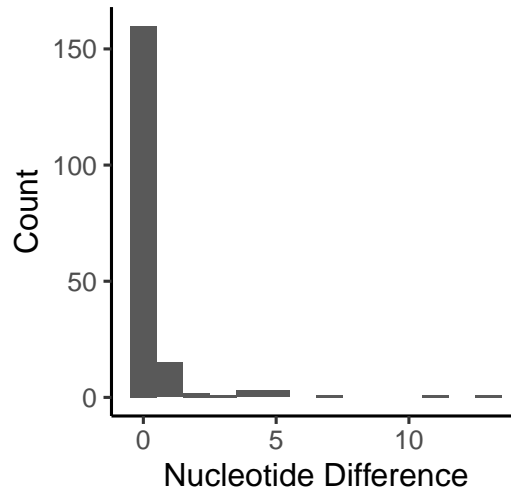
IGHV1–69*09

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



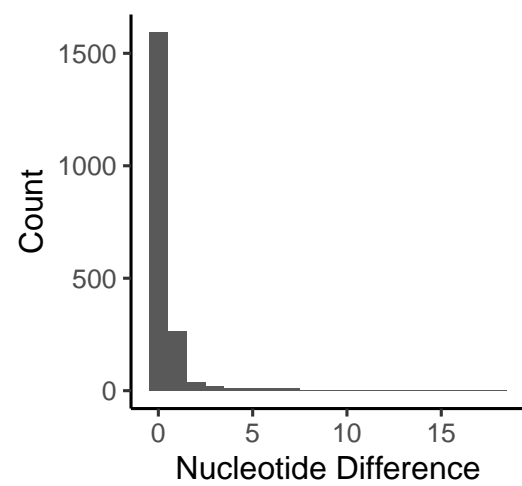
IGHV2–26*01

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



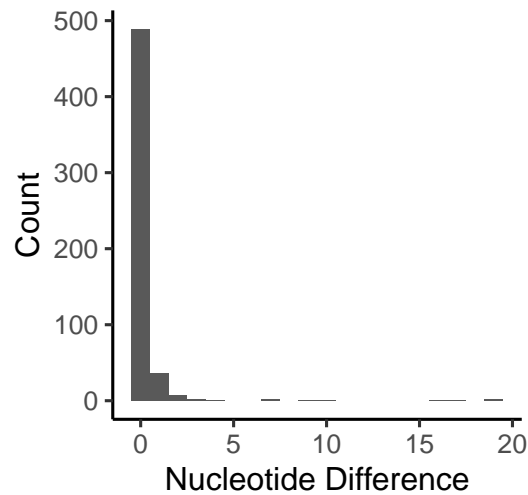
IGHV3–9*01

1986 sequences assigned
1593 (80.2%) exact matches, in which:
1424 unique CDR3
6 unique J



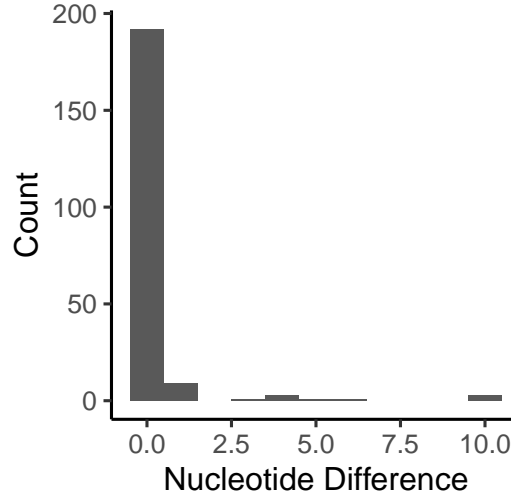
IGHV1–69*08_C191T

545 sequences assigned
489 (89.7%) exact matches, in which:
454 unique CDR3
6 unique J



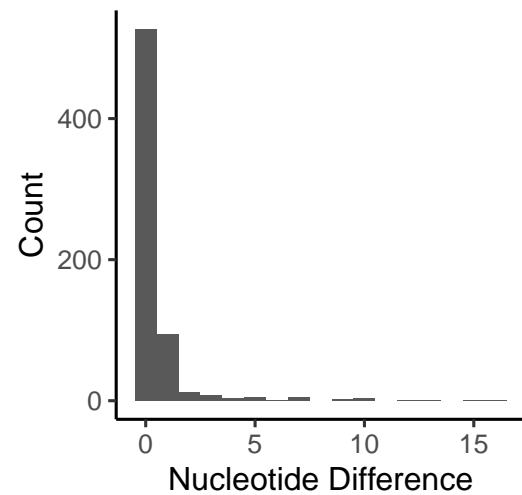
IGHV2–70*15

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



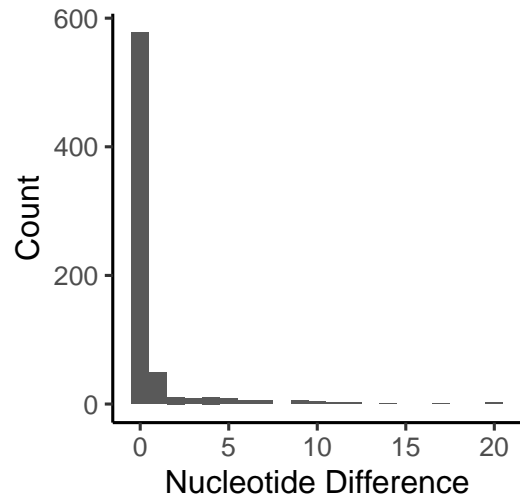
IGHV3–11*01

667 sequences assigned
527 (79%) exact matches, in which:
488 unique CDR3
6 unique J



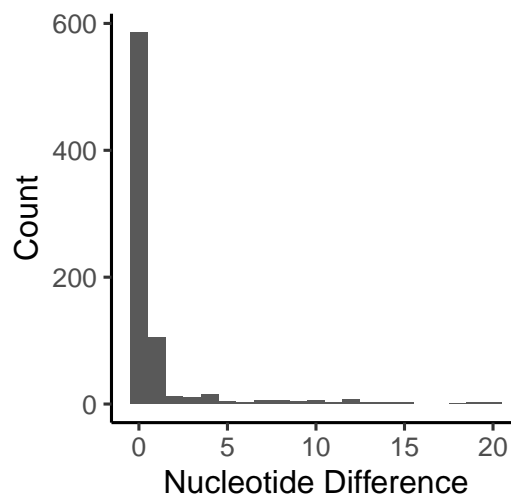
IGHV2–5*02

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



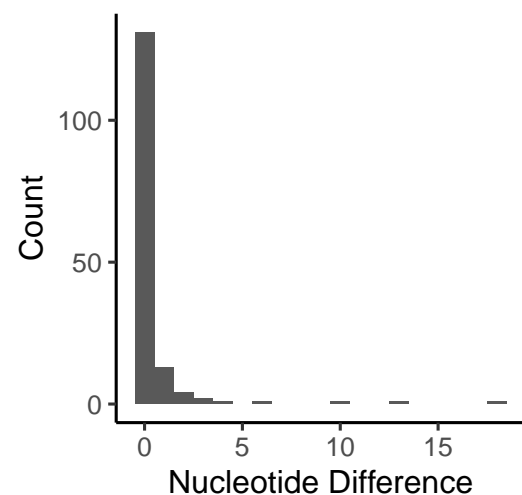
IGHV3–7*01

782 sequences assigned
586 (74.9%) exact matches, in which:
549 unique CDR3
6 unique J



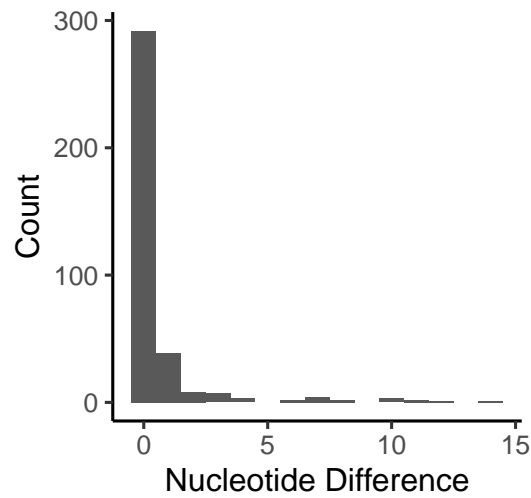
IGHV3–13*01

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



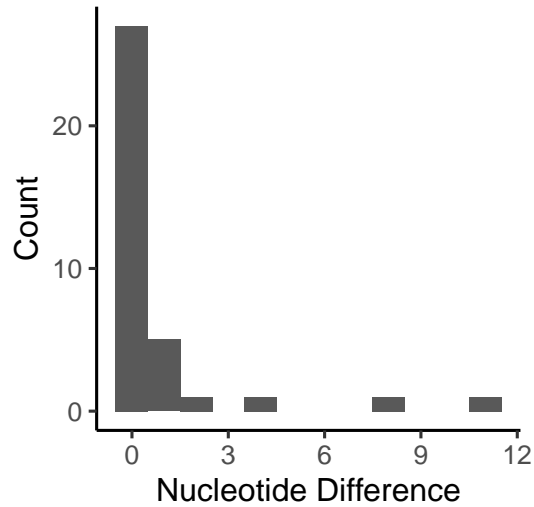
IGHV3-15*01

364 sequences assigned
292 (80.2%) exact matches, in which:
272 unique CDR3
6 unique J



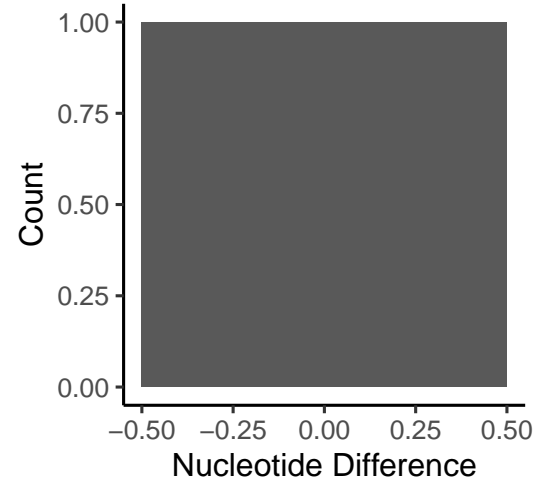
IGHV3-20*04

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



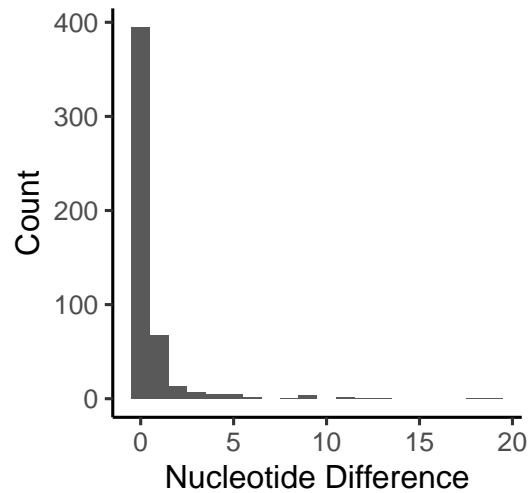
IGHV3-35*01

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



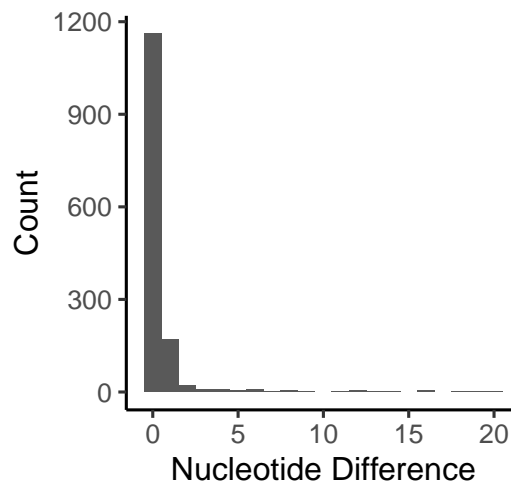
IGHV3-15*07

508 sequences assigned
395 (77.8%) exact matches, in which:
370 unique CDR3
6 unique J



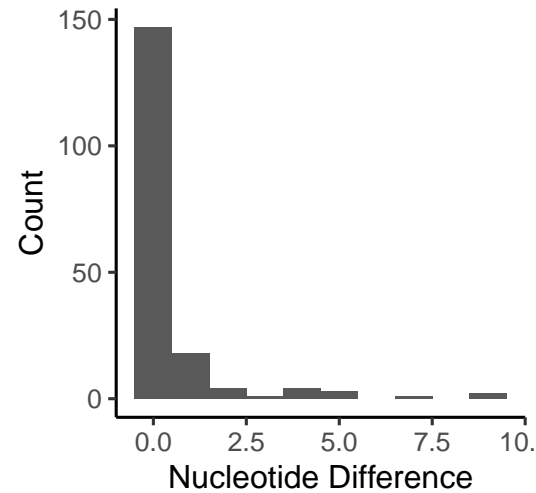
IGHV3-21*01

1407 sequences assigned
1161 (82.5%) exact matches, in which:
1057 unique CDR3
6 unique J



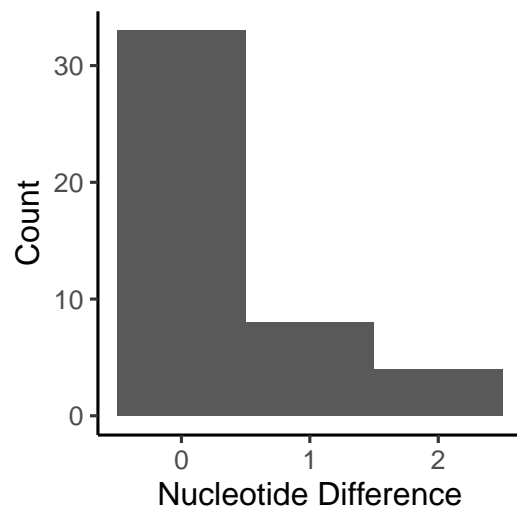
IGHV3-43*01

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



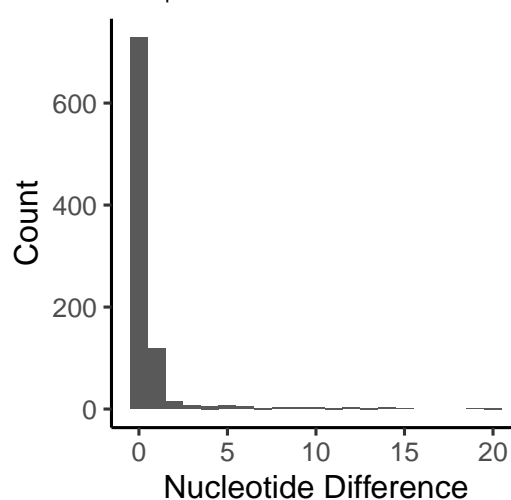
IGHV3-20*01

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



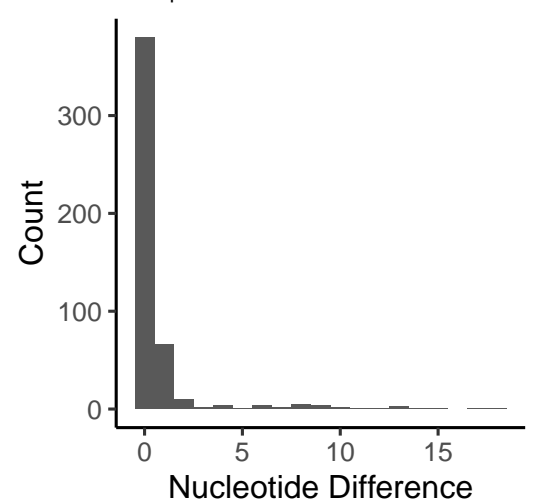
IGHV3-33*01

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



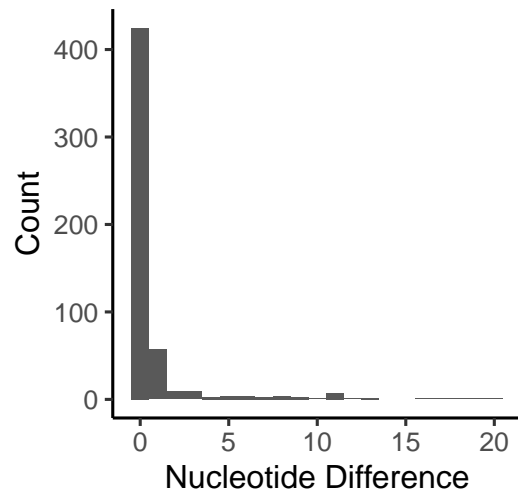
IGHV3-48*02

491 sequences assigned
380 (77.4%) exact matches, in which:
360 unique CDR3
6 unique J



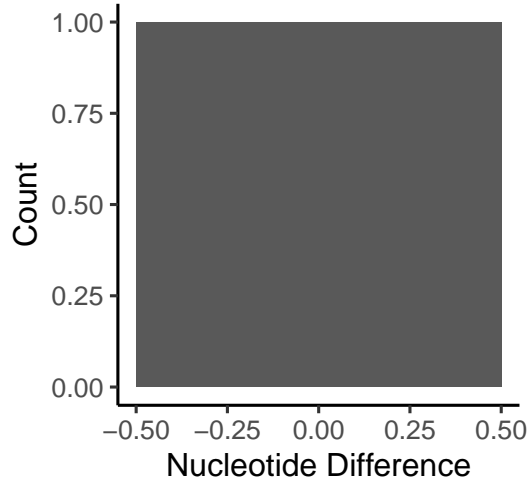
IGHV3–48*04

538 sequences assigned
425 (79%) exact matches, in which:
402 unique CDR3
6 unique J



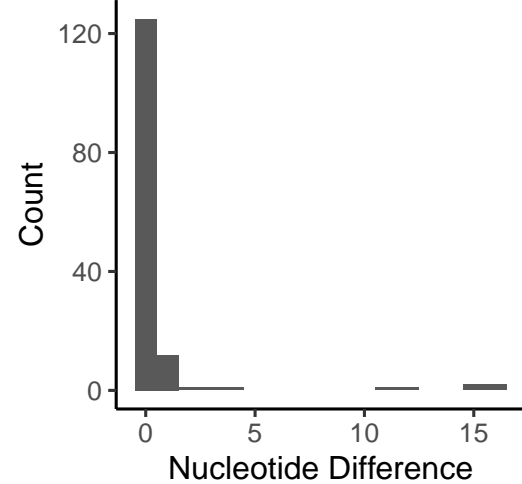
IGHV3–52*01

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



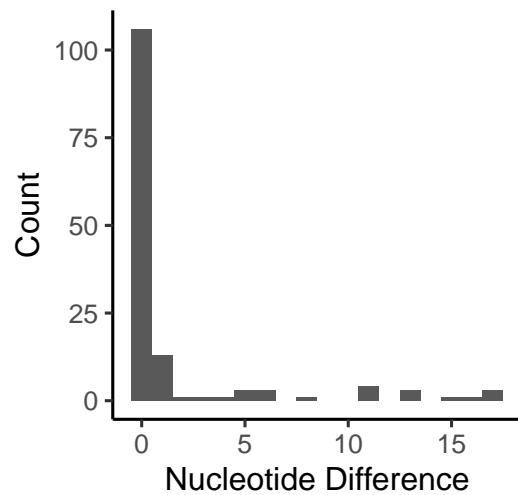
IGHV3–64*01

147 sequences assigned
125 (85%) exact matches, in which:
114 unique CDR3
5 unique J



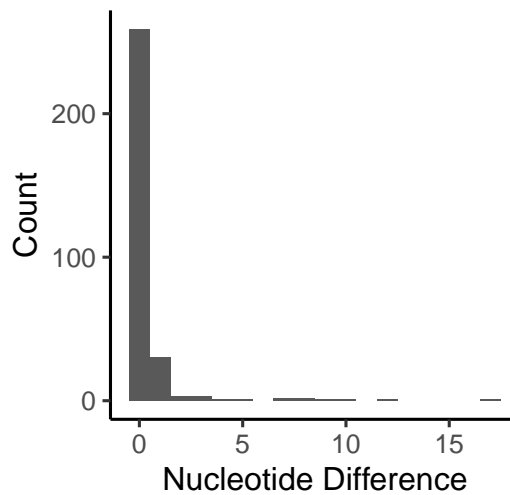
IGHV3–49*03

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



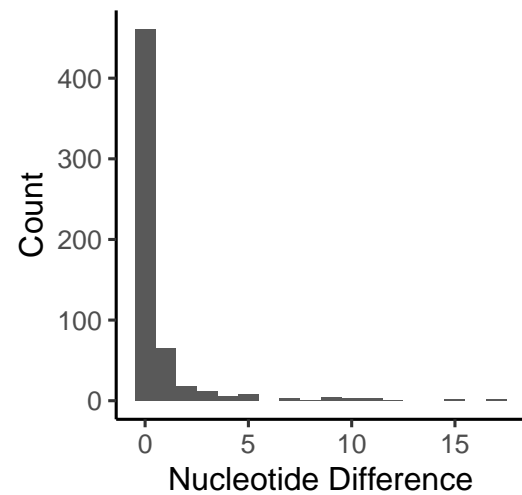
IGHV3–53*01

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



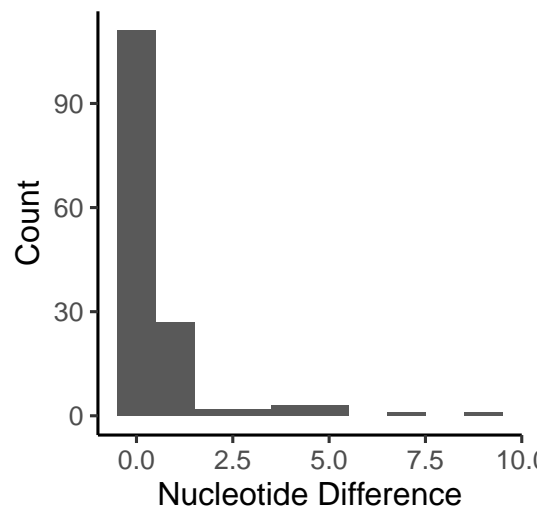
IGHV3–66*01

593 sequences assigned
461 (77.7%) exact matches, in which:
410 unique CDR3
6 unique J



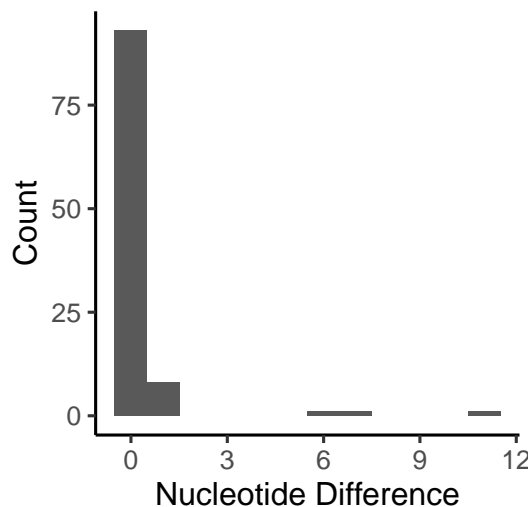
IGHV3–49*05

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



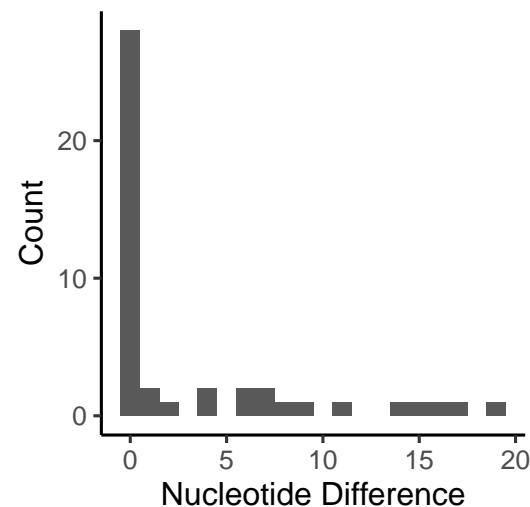
IGHV3–53*04

104 sequences assigned
93 (89.4%) exact matches, in which:
85 unique CDR3
6 unique J



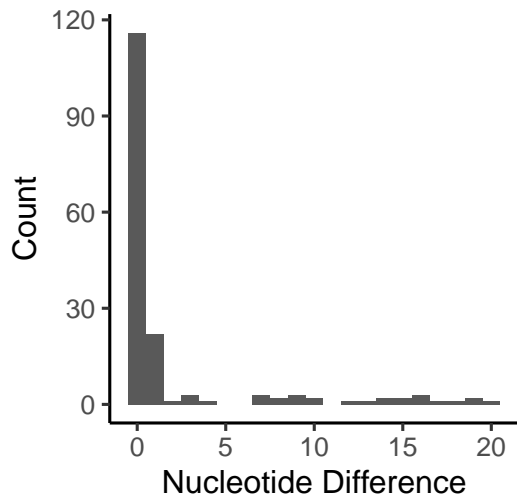
IGHV3–72*01

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



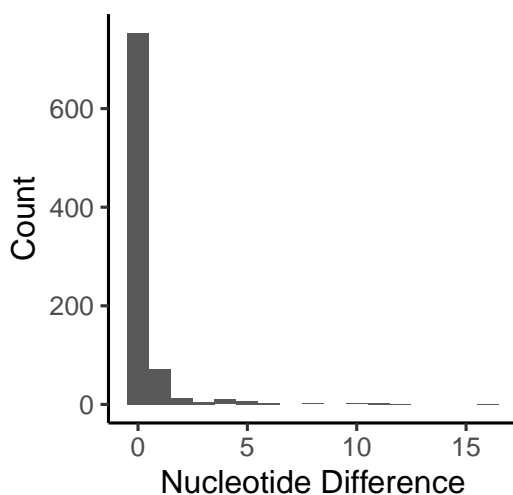
IGHV3–73*01

171 sequences assigned
116 (67.8%) exact matches, in which:
113 unique CDR3
5 unique J



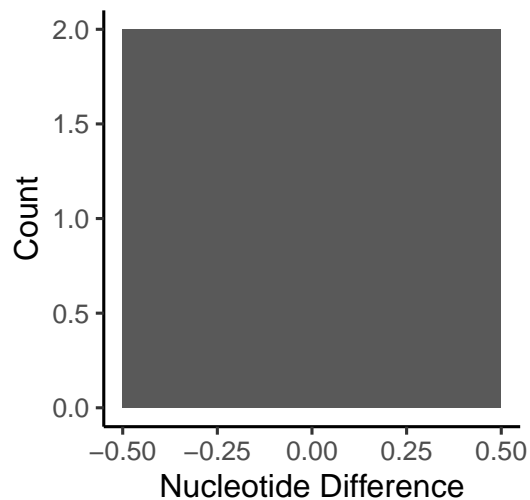
IGHV4–4*02

873 sequences assigned
754 (86.4%) exact matches, in which:
727 unique CDR3
6 unique J



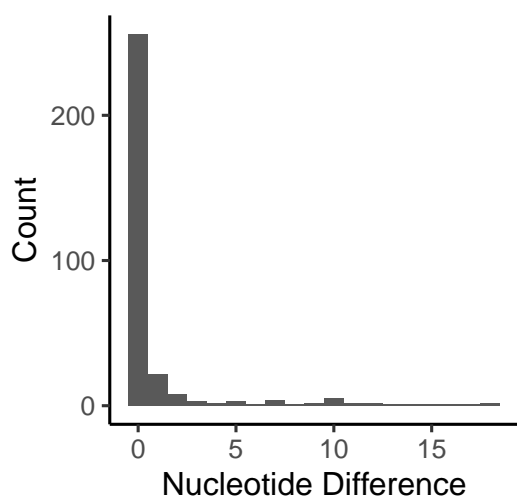
IGHV4–28*05

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



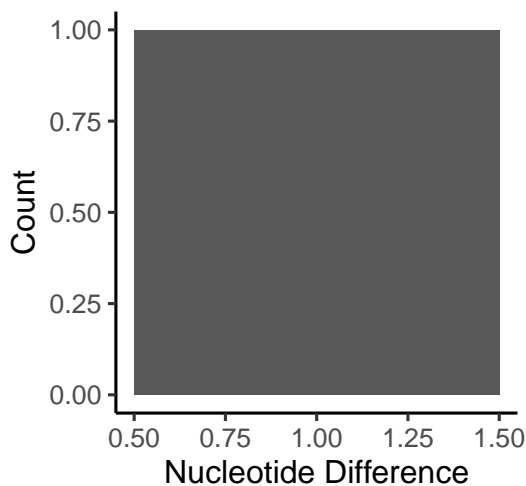
IGHV3–74*01

320 sequences assigned
256 (80%) exact matches, in which:
236 unique CDR3
6 unique J



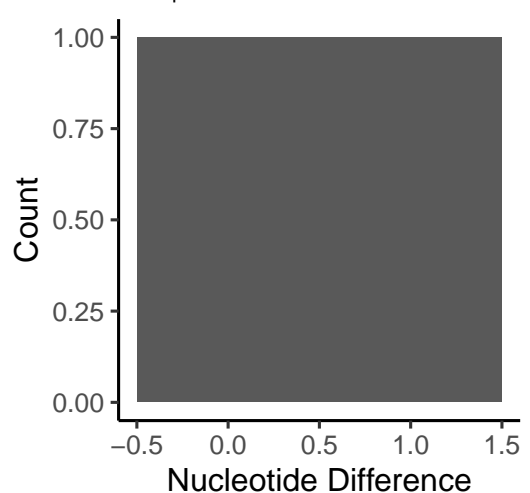
IGHV4–28*03

1 sequences assigned
No exact matches.



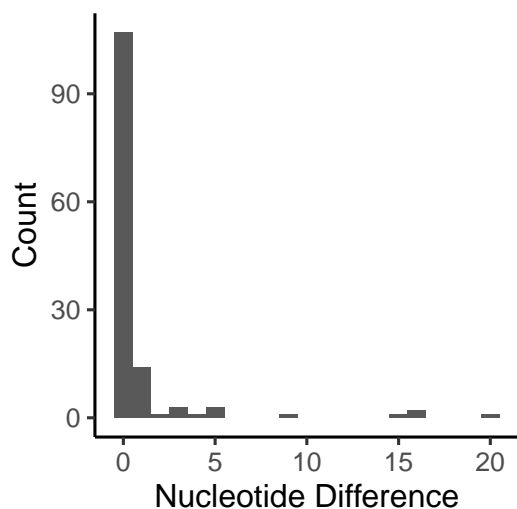
IGHV4–28*07

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



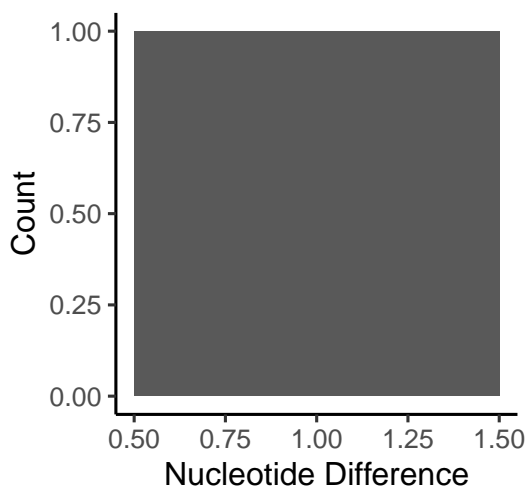
IGHV3–43D*03

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



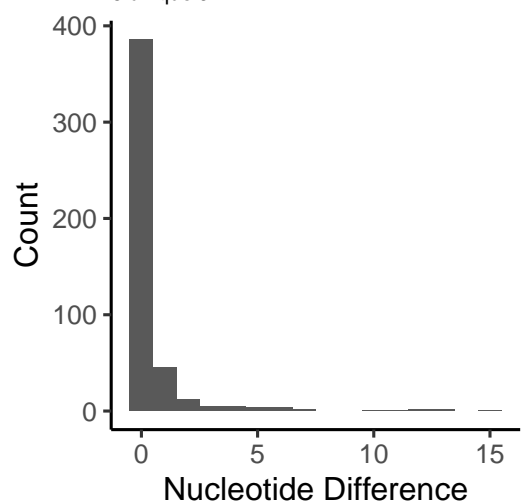
IGHV4–28*04

1 sequences assigned
No exact matches.



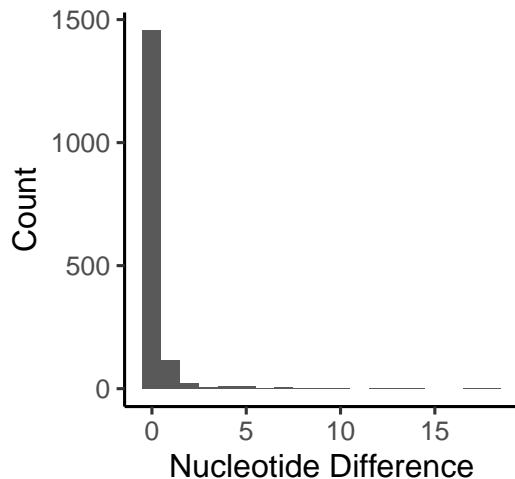
IGHV4–31*03

472 sequences assigned
386 (81.8%) exact matches, in which:
367 unique CDR3
6 unique J



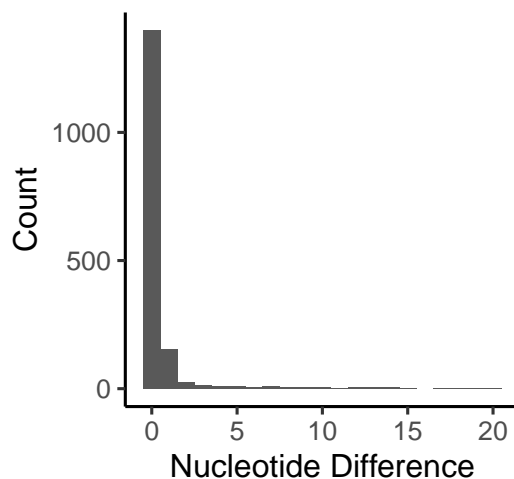
IGHV4–34*01

1652 sequences assigned
1456 (88.1%) exact matches, in which:
1348 unique CDR3
6 unique J



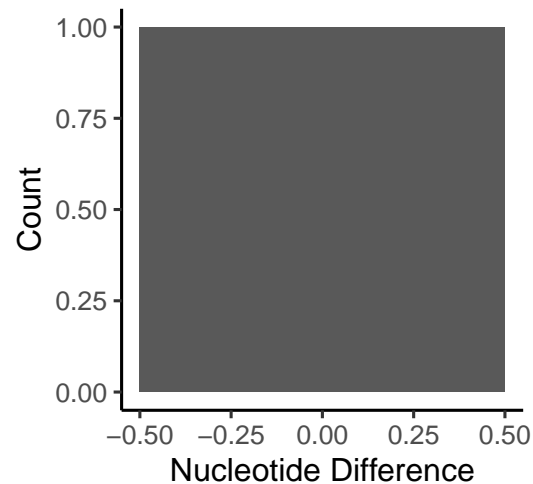
IGHV4–39*07

1675 sequences assigned
1398 (83.5%) exact matches, in which:
1289 unique CDR3
6 unique J



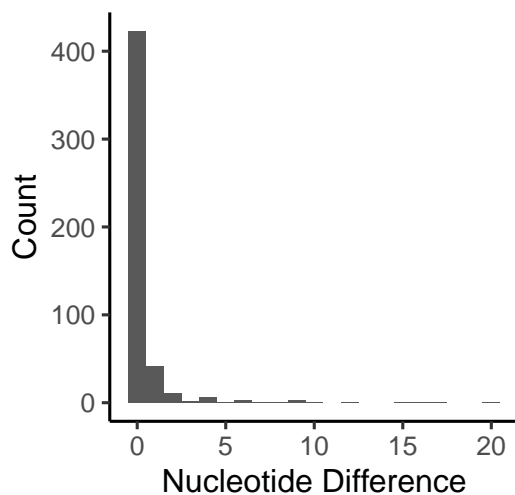
IGHV4–61*02

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



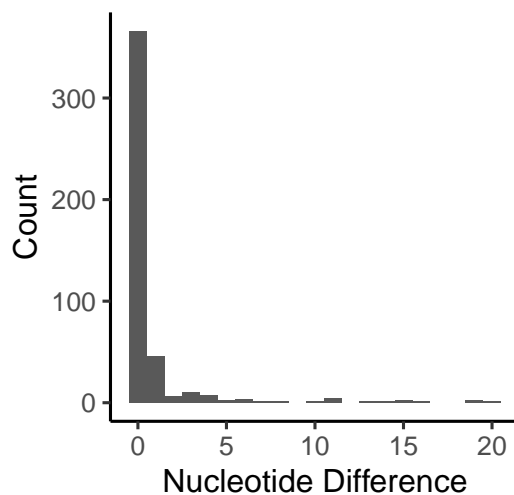
IGHV4–38–2*02

500 sequences assigned
423 (84.6%) exact matches, in which:
392 unique CDR3
6 unique J



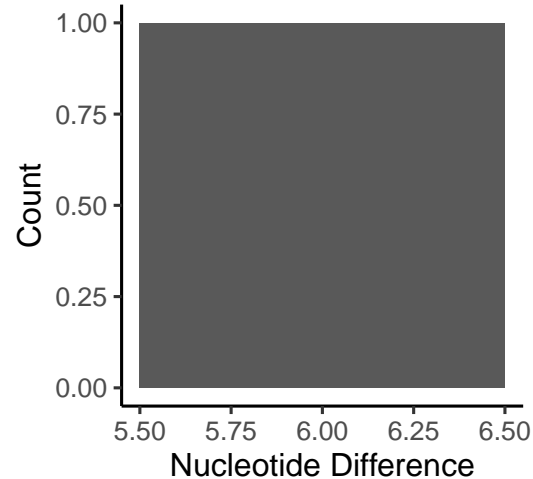
IGHV4–59*01

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



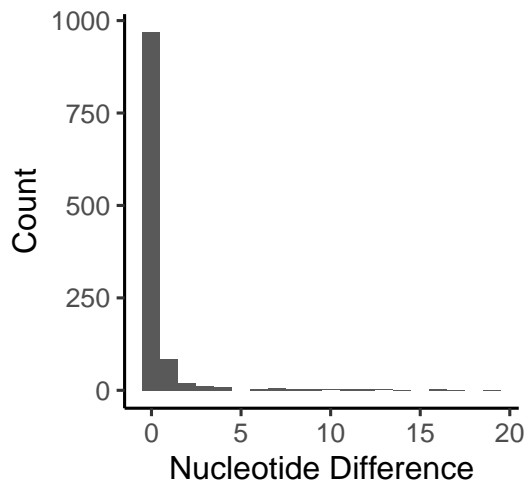
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



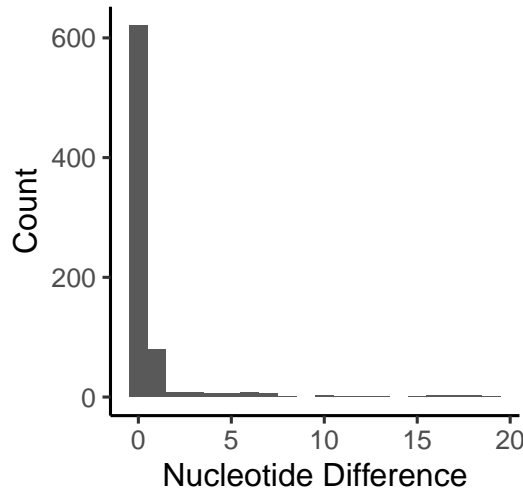
IGHV4–39*01

1133 sequences assigned
969 (85.5%) exact matches, in which:
898 unique CDR3
6 unique J



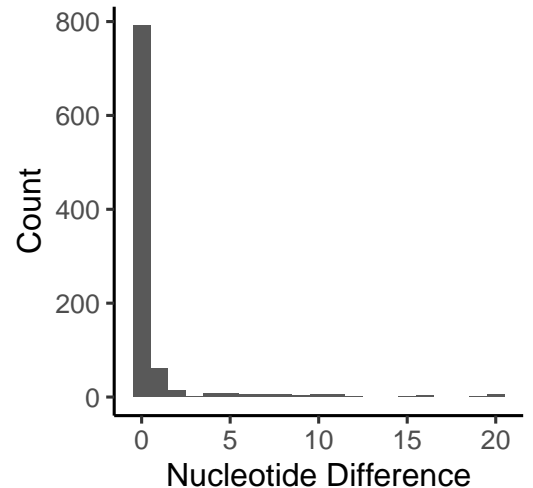
IGHV4–59*08

755 sequences assigned
621 (82.3%) exact matches, in which:
584 unique CDR3
6 unique J



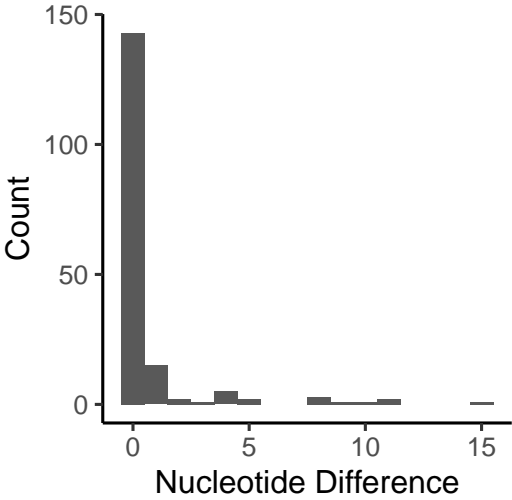
IGHV5–51*01

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



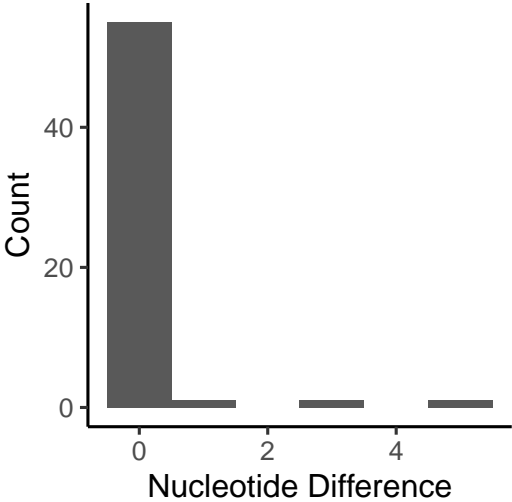
IGHV6-1*01

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.