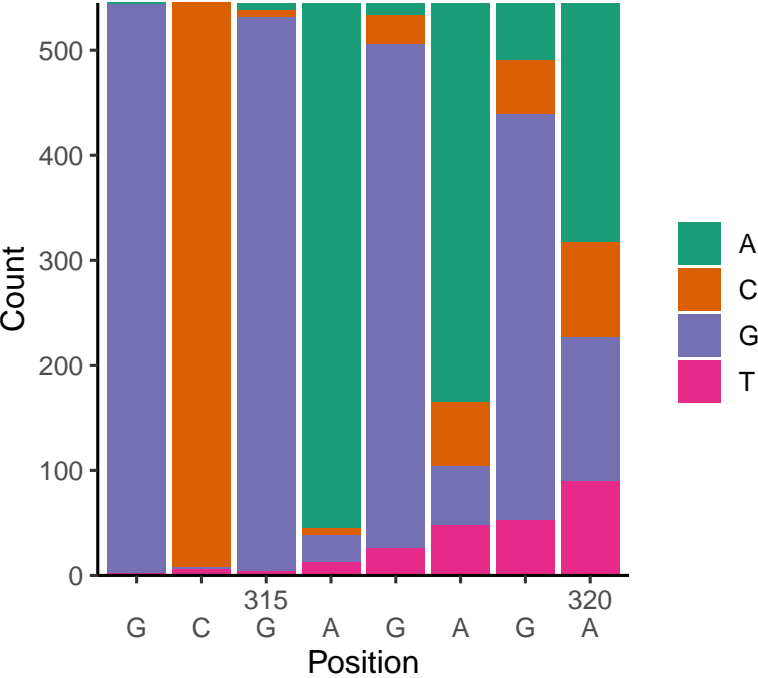
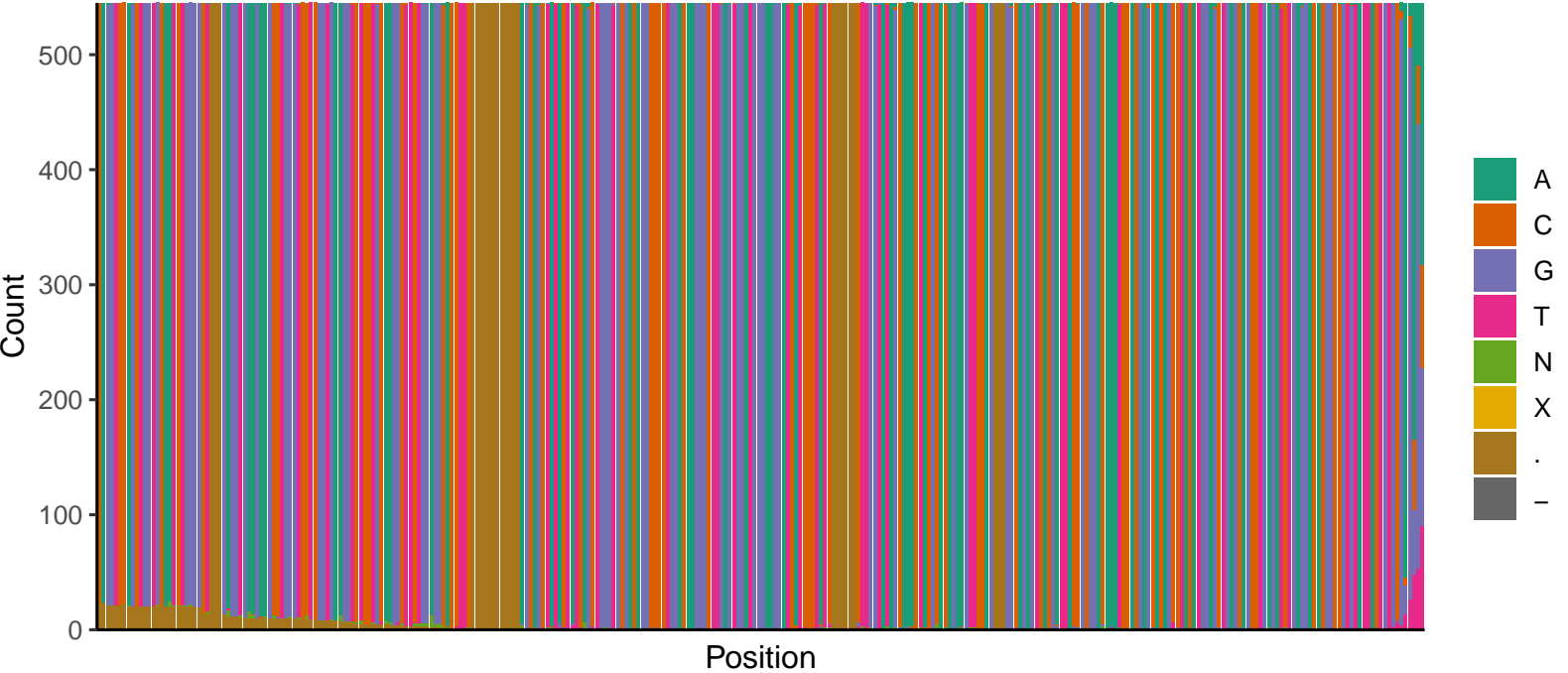


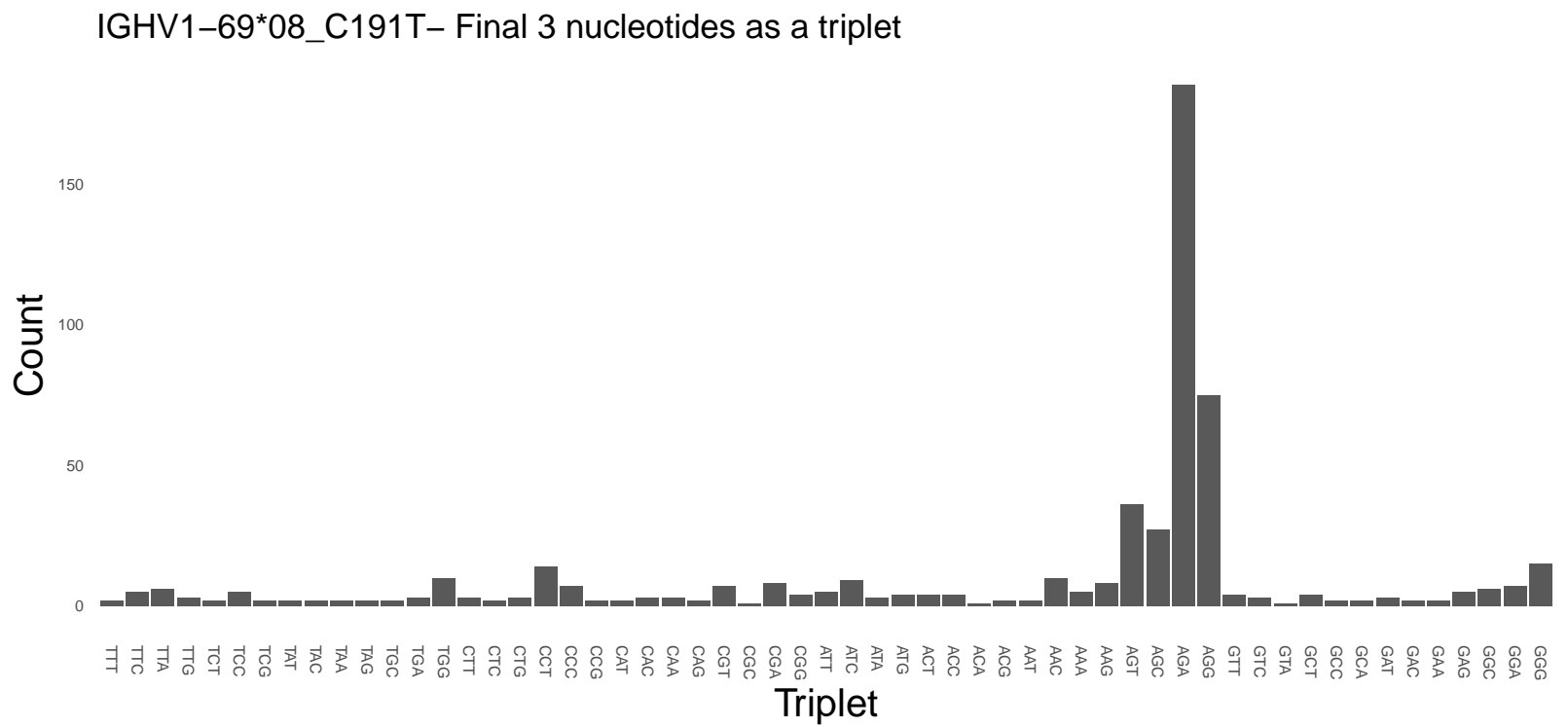
Gene IGHV1-69*08_C191T



Gene IGHV1-69*08_C191T

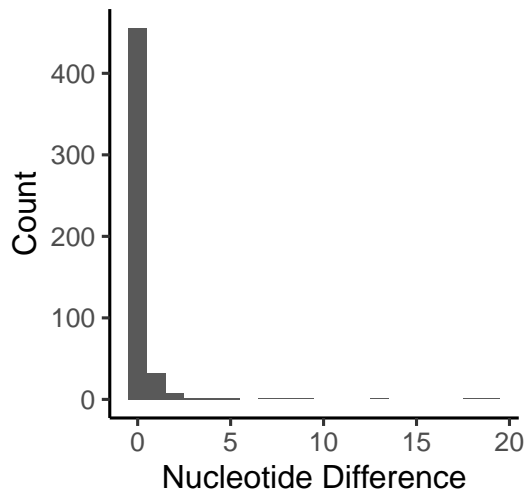


IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



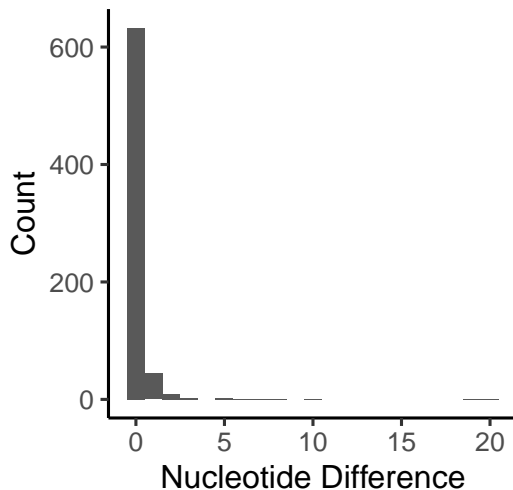
IGHV1-2*04

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



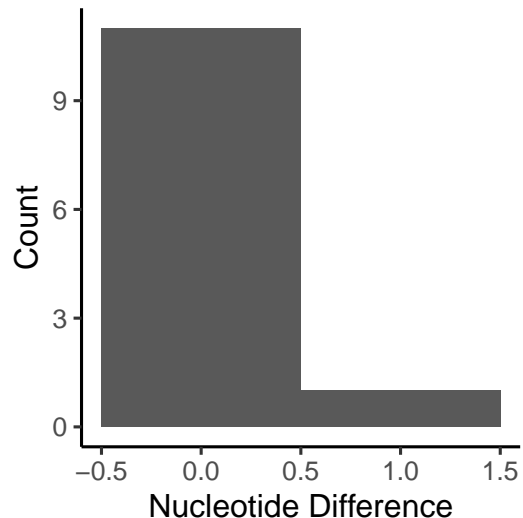
IGHV1-8*01

698 sequences assigned
633 (90.7%) exact matches, in which:
596 unique CDR3
6 unique J



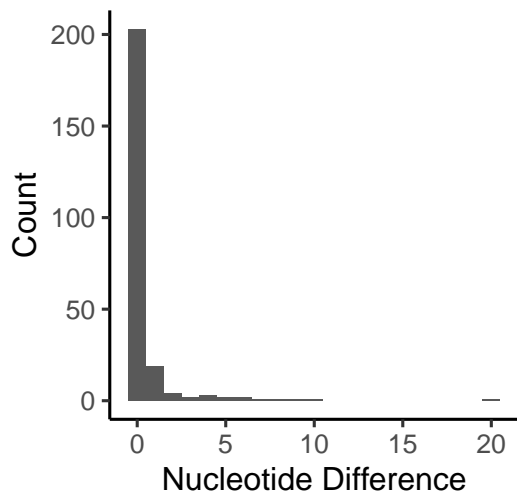
IGHV1-45*02

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



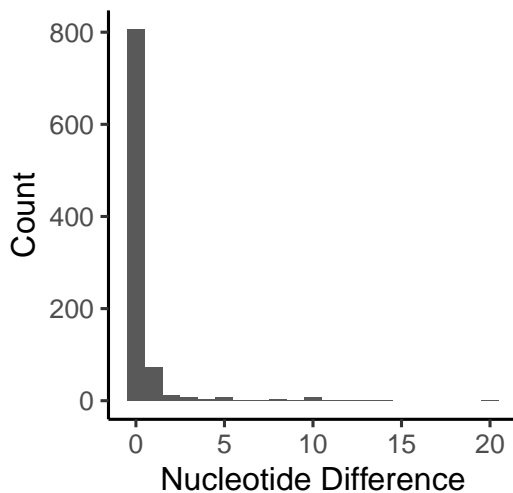
IGHV1-3*01

244 sequences assigned
203 (83.2%) exact matches, in which:
194 unique CDR3
6 unique J



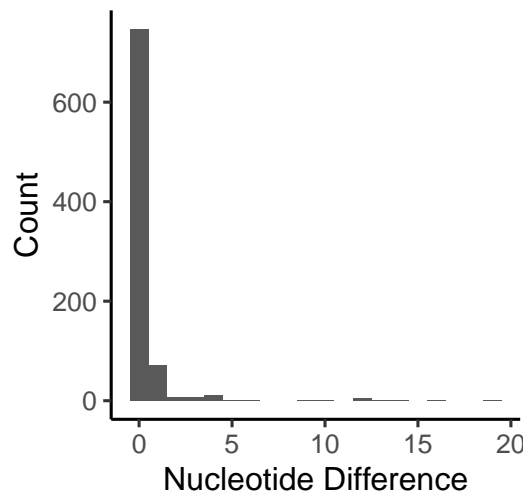
IGHV1-18*01

934 sequences assigned
807 (86.4%) exact matches, in which:
769 unique CDR3
6 unique J



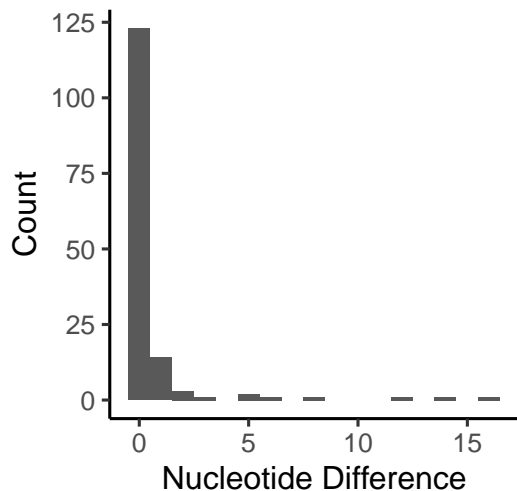
IGHV1-46*01

864 sequences assigned
747 (86.5%) exact matches, in which:
706 unique CDR3
6 unique J



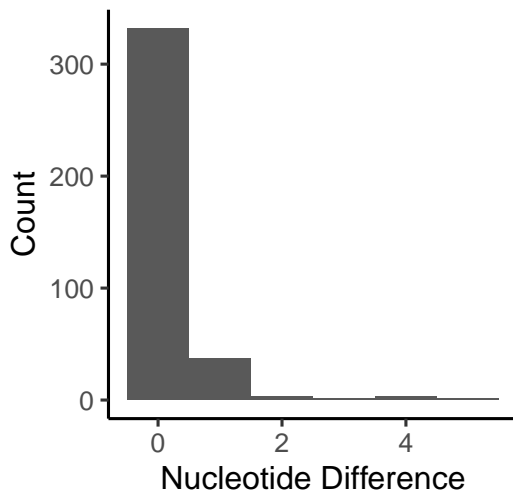
IGHV1-3*05

149 sequences assigned
123 (82.6%) exact matches, in which:
119 unique CDR3
6 unique J



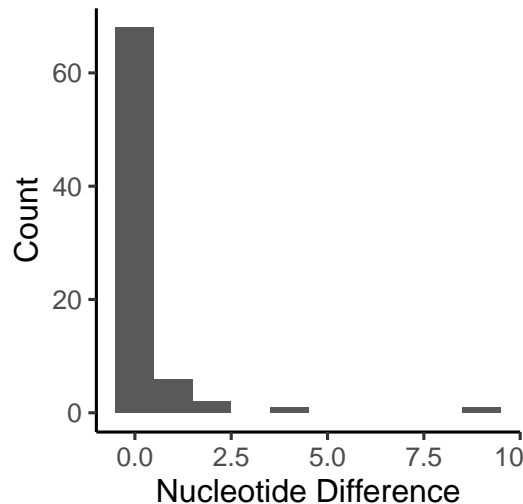
IGHV1-24*01

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



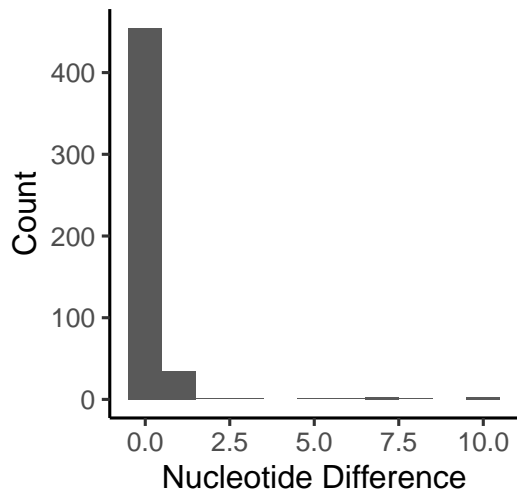
IGHV1-58*02

78 sequences assigned
68 (87.2%) exact matches, in which:
66 unique CDR3
5 unique J



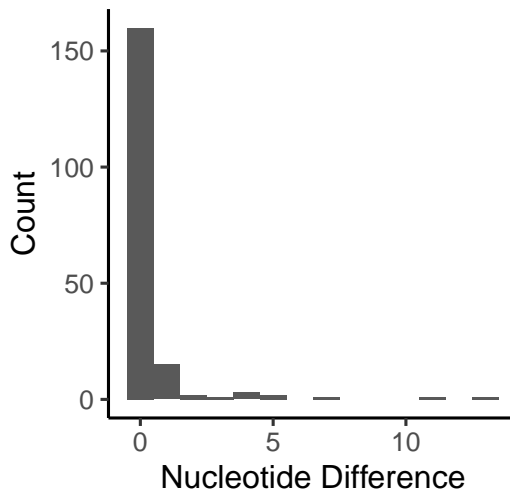
IGHV1–69*09

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



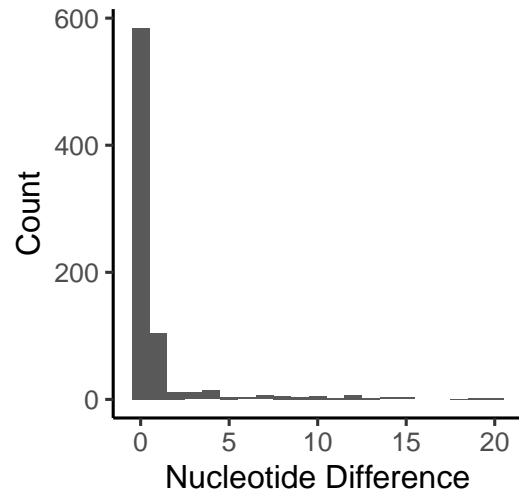
IGHV2–26*01

186 sequences assigned
160 (86%) exact matches, in which:
158 unique CDR3
5 unique J



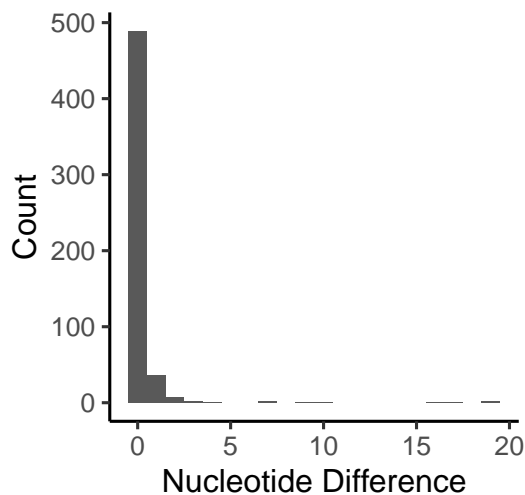
IGHV3–7*01

779 sequences assigned
585 (75.1%) exact matches, in which:
548 unique CDR3
6 unique J



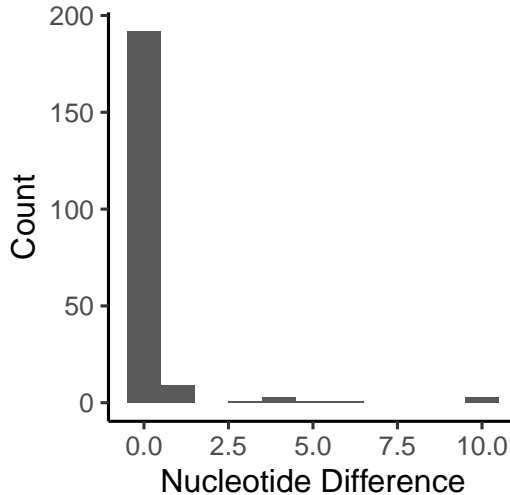
IGHV1–69*08_C191T

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



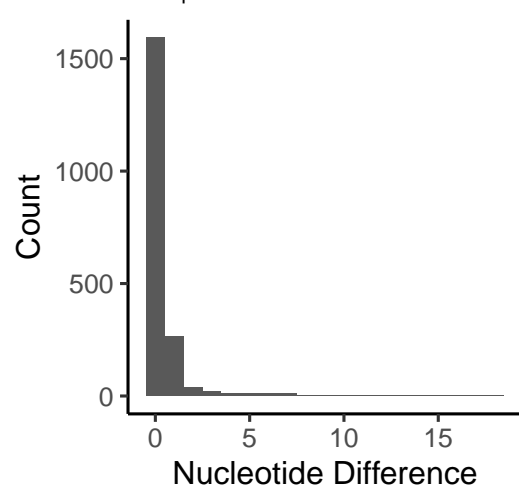
IGHV2–70*15

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



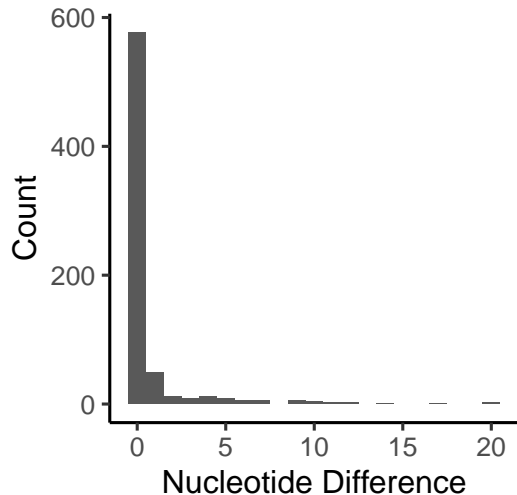
IGHV3–9*01

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



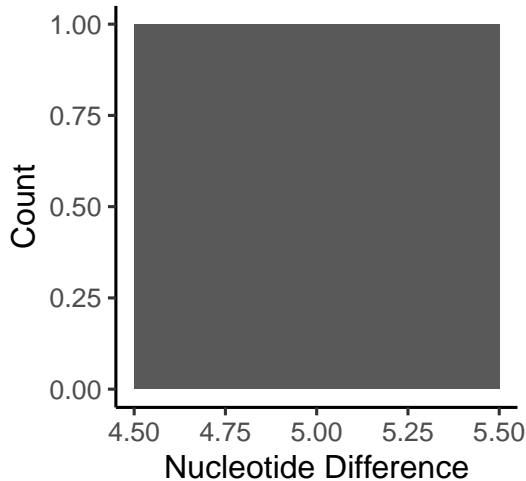
IGHV2–5*02

706 sequences assigned
577 (81.7%) exact matches, in which:
555 unique CDR3
6 unique J



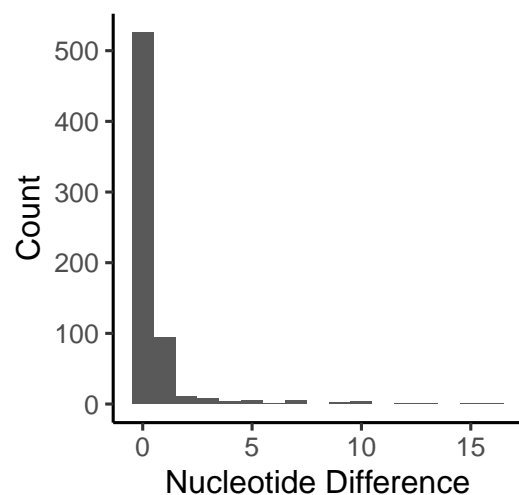
IGHV2–70D*14

1 sequences assigned
No exact matches.



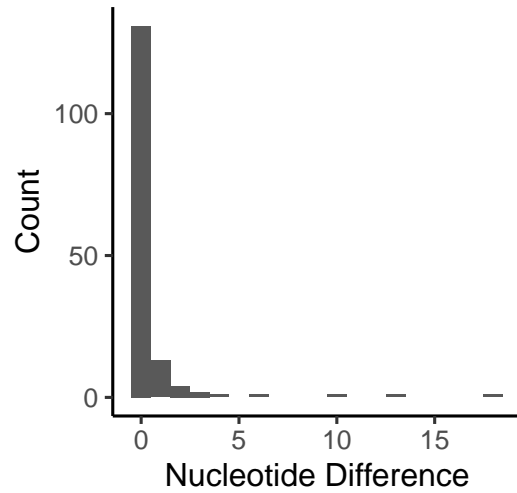
IGHV3–11*01

665 sequences assigned
526 (79.1%) exact matches, in which:
487 unique CDR3
6 unique J



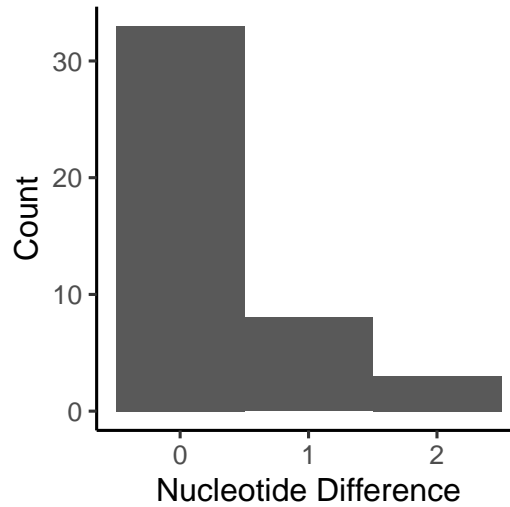
IGHV3-13*01

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



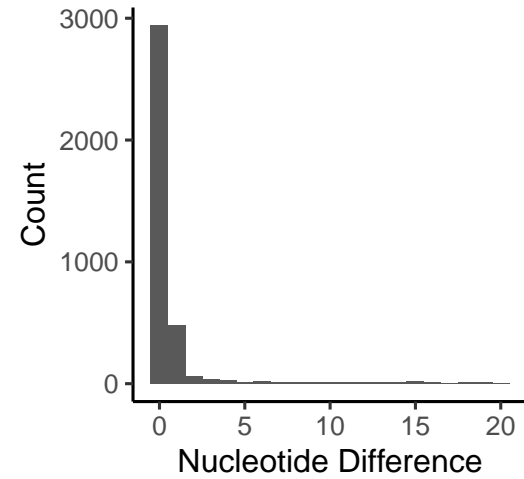
IGHV3-20*01

44 sequences assigned
33 (75%) exact matches, in which:
30 unique CDR3
5 unique J



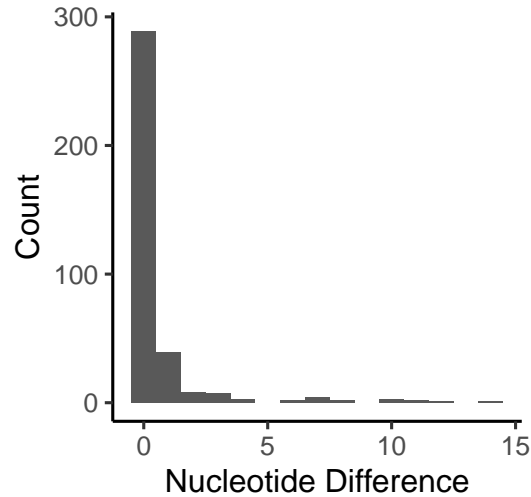
IGHV3-23*01

3794 sequences assigned
2941 (77.5%) exact matches, in which:
2656 unique CDR3
6 unique J



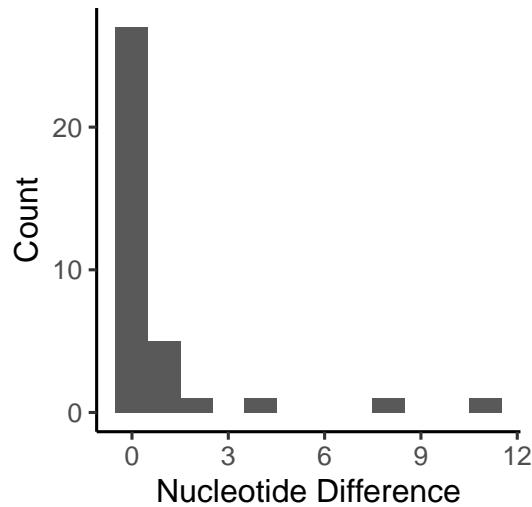
IGHV3-15*01

361 sequences assigned
289 (80.1%) exact matches, in which:
269 unique CDR3
6 unique J



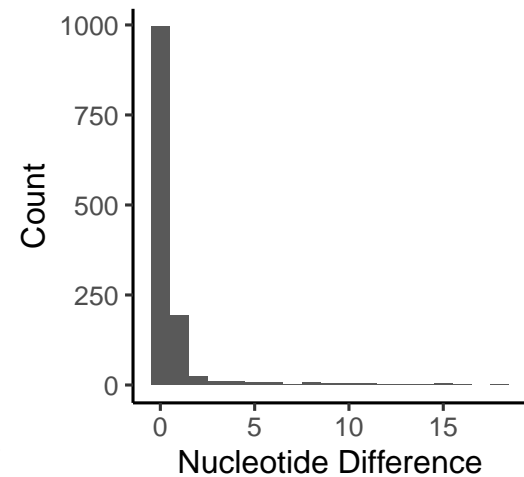
IGHV3-20*04

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



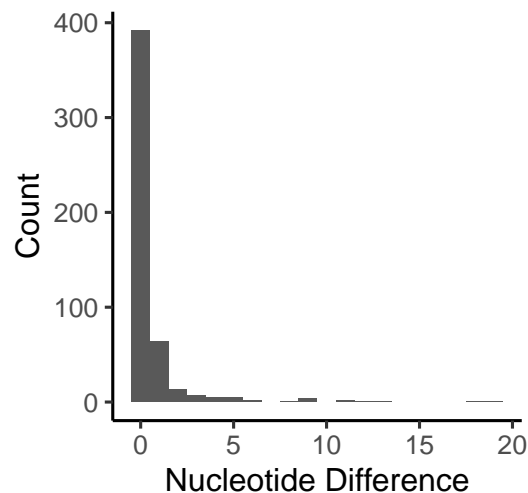
IGHV3-30*04

1278 sequences assigned
995 (77.9%) exact matches, in which:
902 unique CDR3
6 unique J



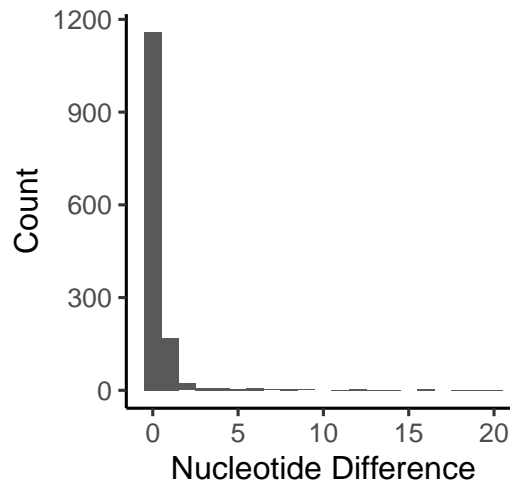
IGHV3-15*07

501 sequences assigned
392 (78.2%) exact matches, in which:
367 unique CDR3
6 unique J



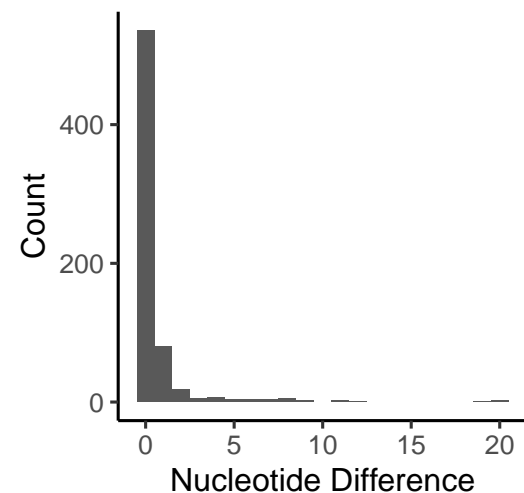
IGHV3-21*01

1404 sequences assigned
1159 (82.5%) exact matches, in which:
1057 unique CDR3
6 unique J



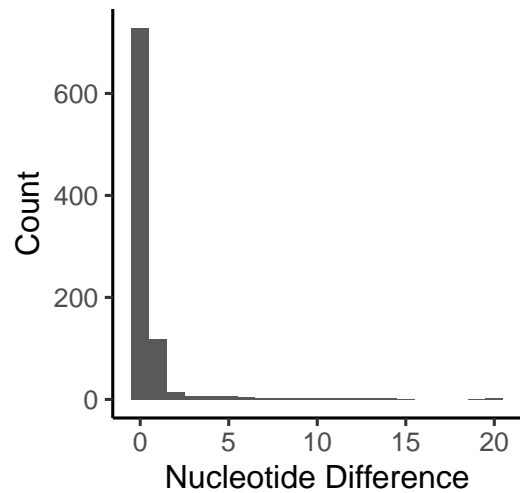
IGHV3-30*18

674 sequences assigned
536 (79.5%) exact matches, in which:
489 unique CDR3
6 unique J



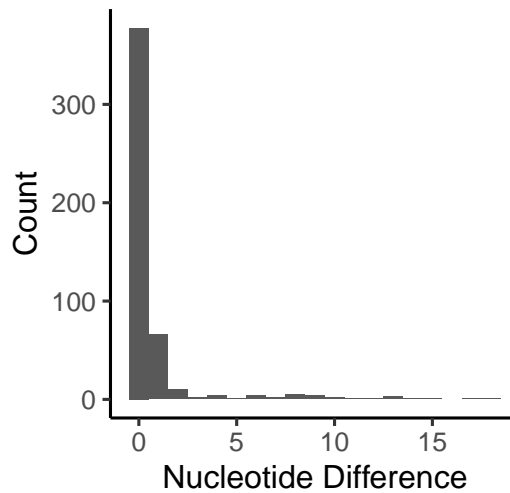
IGHV3–33*01

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



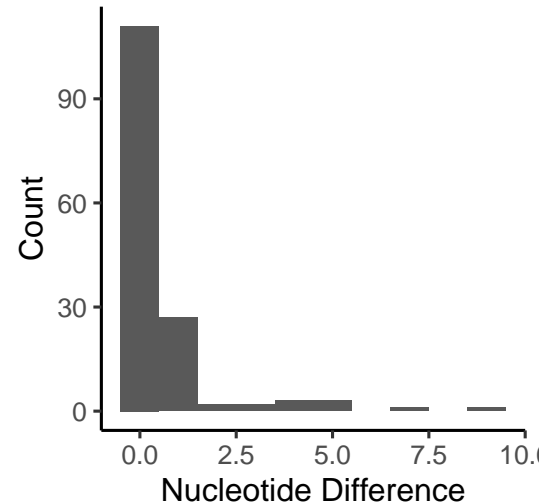
IGHV3–48*02

489 sequences assigned
378 (77.3%) exact matches, in which:
359 unique CDR3
6 unique J



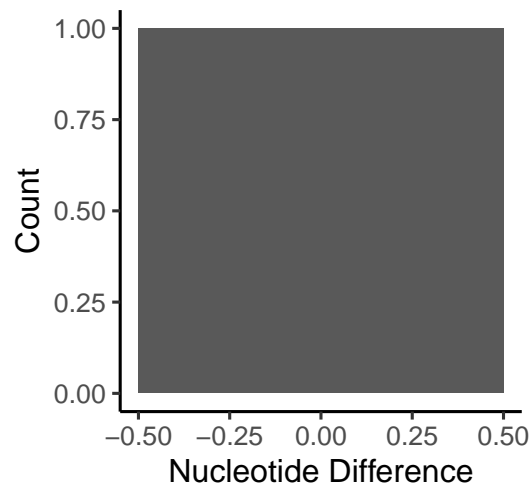
IGHV3–49*05

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



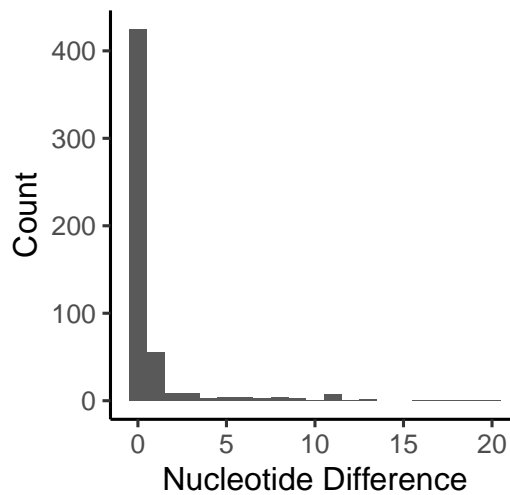
IGHV3–35*01

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



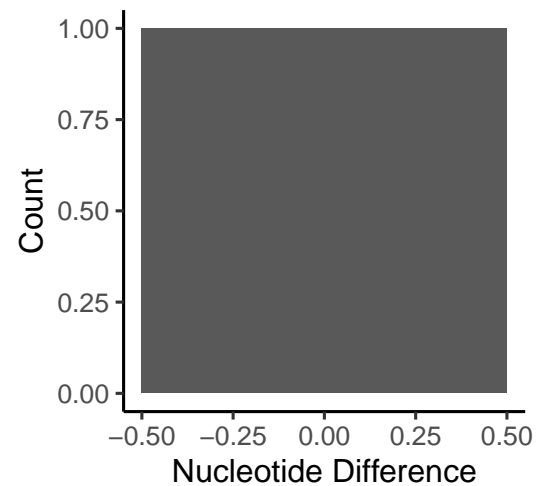
IGHV3–48*04

537 sequences assigned
425 (79.1%) exact matches, in which:
402 unique CDR3
6 unique J



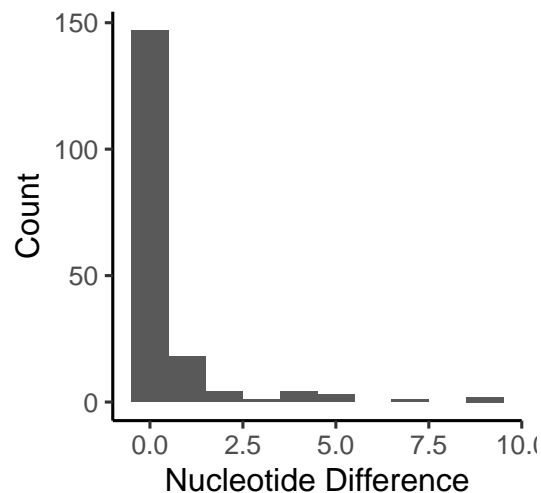
IGHV3–52*01

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



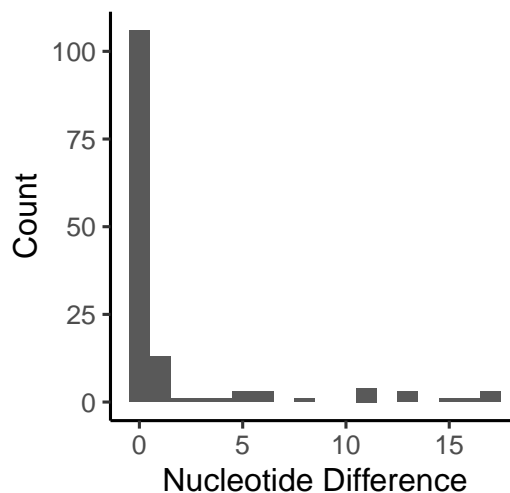
IGHV3–43*01

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



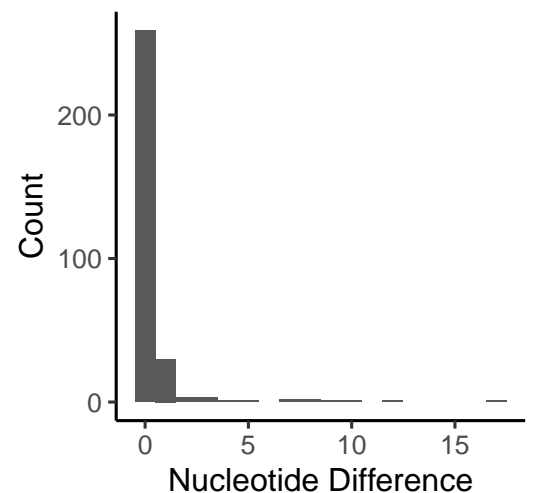
IGHV3–49*03

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



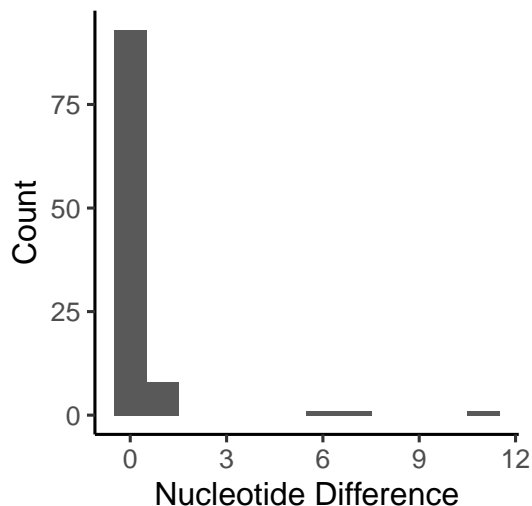
IGHV3–53*01

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



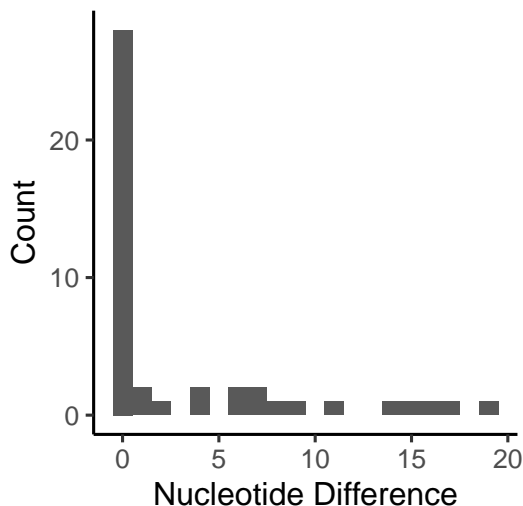
IGHV3-53*04

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



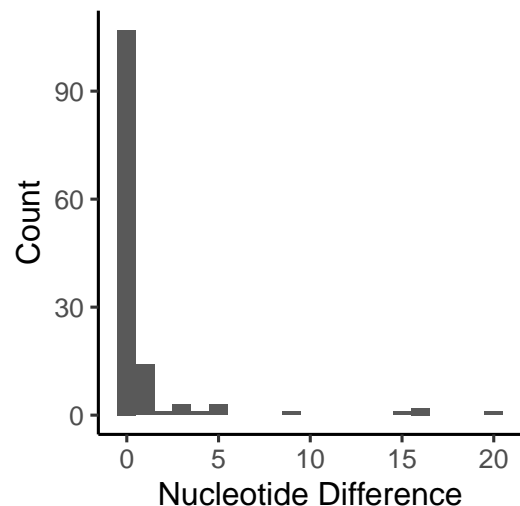
IGHV3-72*01

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



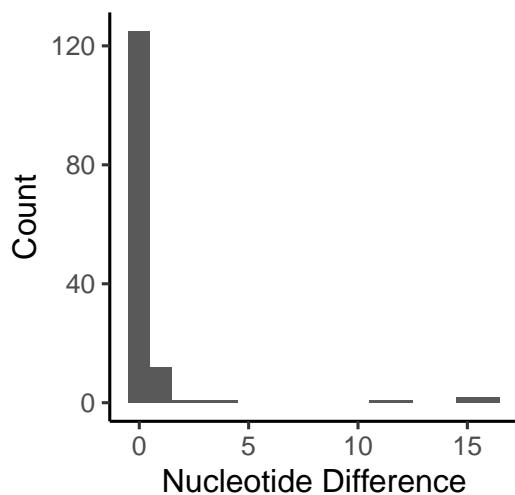
IGHV3-43D*03

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



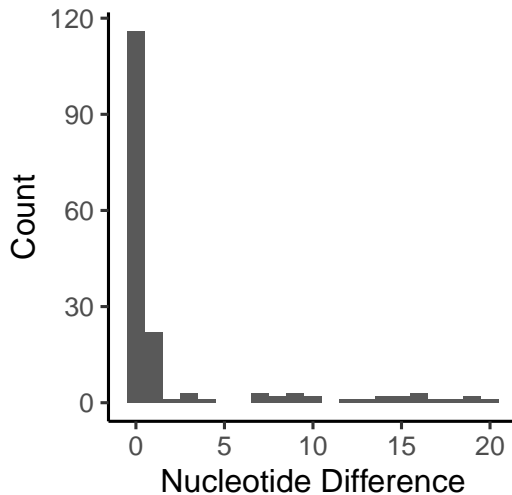
IGHV3-64*01

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



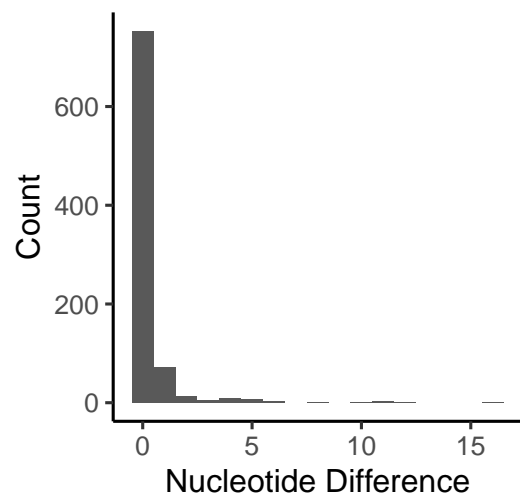
IGHV3-73*01

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



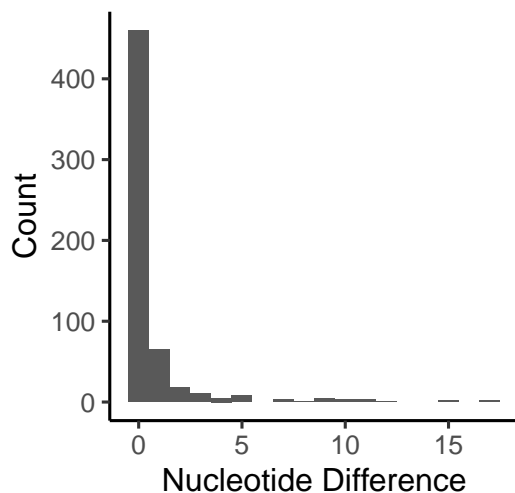
IGHV4-4*02

872 sequences assigned
753 (86.4%) exact matches, in which:
726 unique CDR3
6 unique J



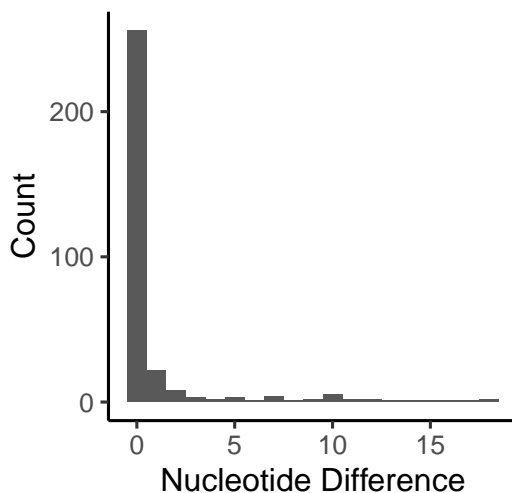
IGHV3-66*01

591 sequences assigned
460 (77.8%) exact matches, in which:
409 unique CDR3
6 unique J



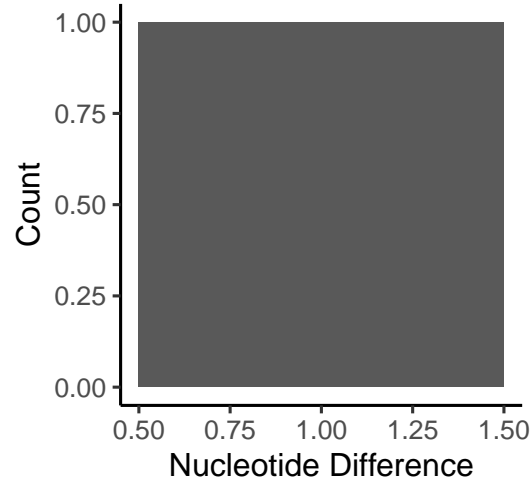
IGHV3-74*01

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



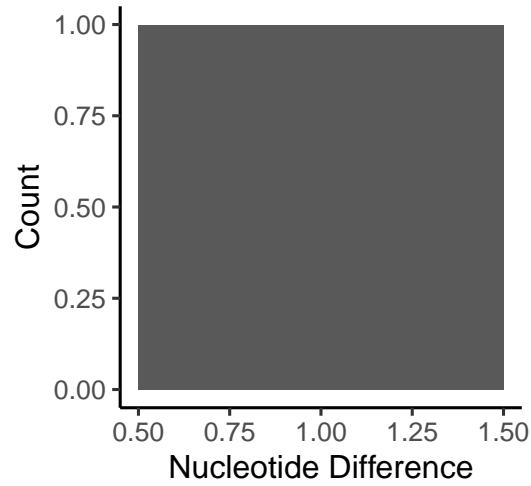
IGHV4-28*03

1 sequences assigned
No exact matches.



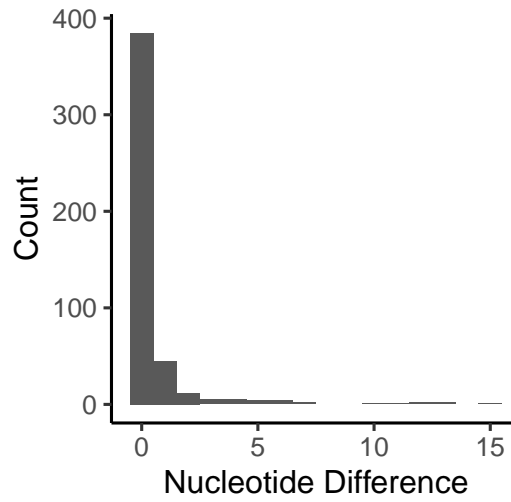
IGHV4-28*04

1 sequences assigned
No exact matches.



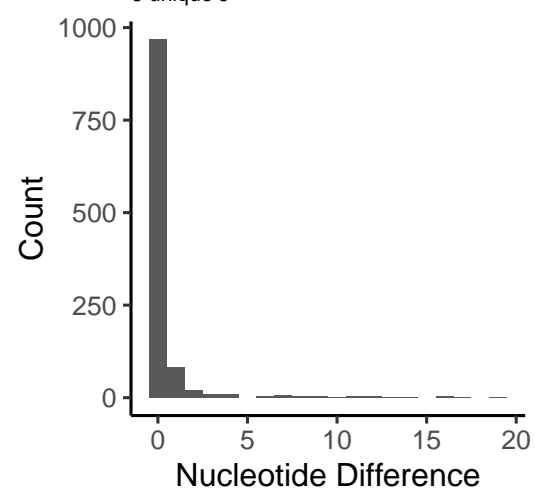
IGHV4-31*03

471 sequences assigned
385 (81.7%) exact matches, in which:
366 unique CDR3
6 unique J



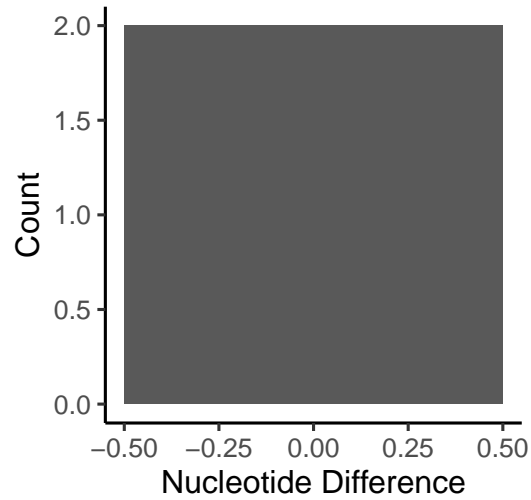
IGHV4-39*01

1128 sequences assigned
968 (85.8%) exact matches, in which:
897 unique CDR3
6 unique J



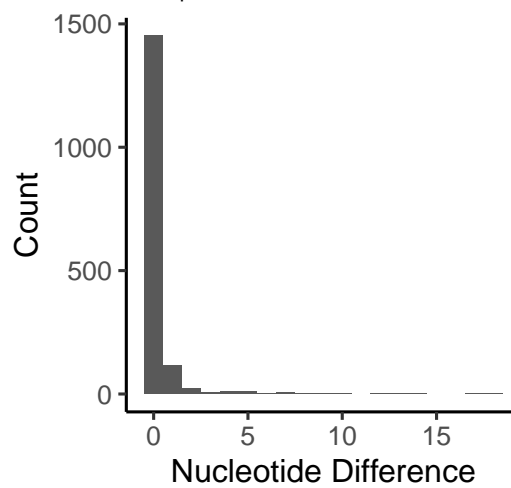
IGHV4-28*05

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



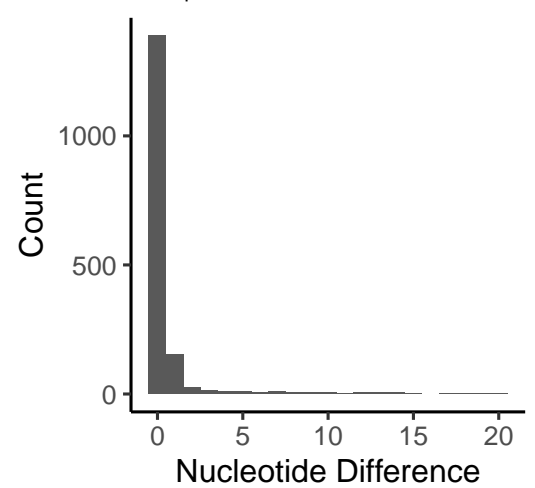
IGHV4-34*01

1647 sequences assigned
1452 (88.2%) exact matches, in which:
1346 unique CDR3
6 unique J



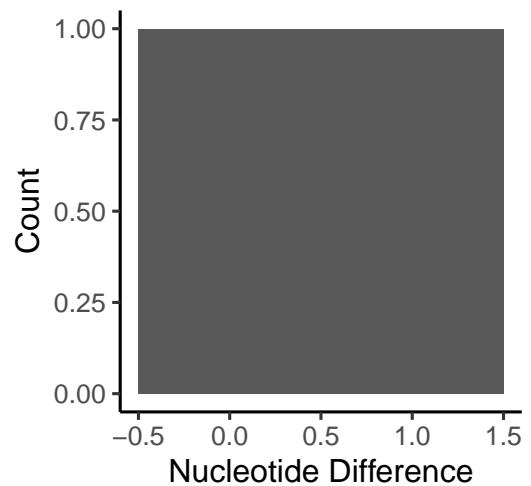
IGHV4-39*07

1663 sequences assigned
1388 (83.5%) exact matches, in which:
1282 unique CDR3
6 unique J



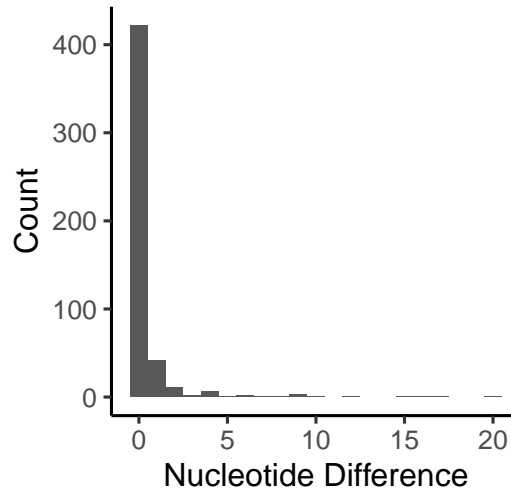
IGHV4-28*07

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



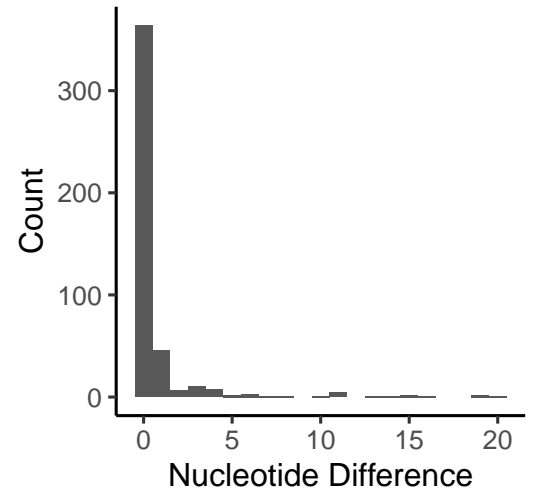
IGHV4-38-2*02

498 sequences assigned
422 (84.7%) exact matches, in which:
391 unique CDR3
6 unique J



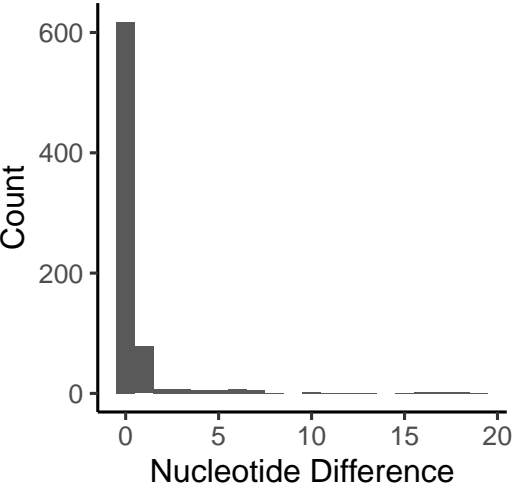
IGHV4-59*01

456 sequences assigned
364 (79.8%) exact matches, in which:
349 unique CDR3
6 unique J



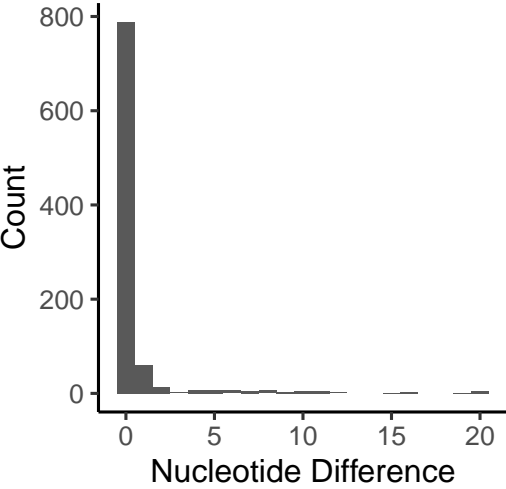
IGHV4–59*08

751 sequences assigned
618 (82.3%) exact matches, in which:
581 unique CDR3
6 unique J



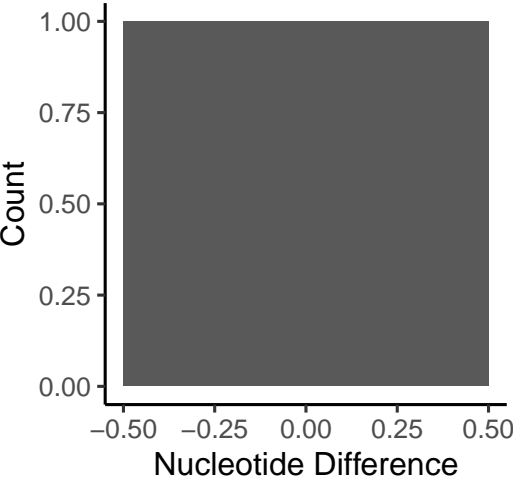
IGHV5–51*01

928 sequences assigned
789 (85%) exact matches, in which:
739 unique CDR3
6 unique J



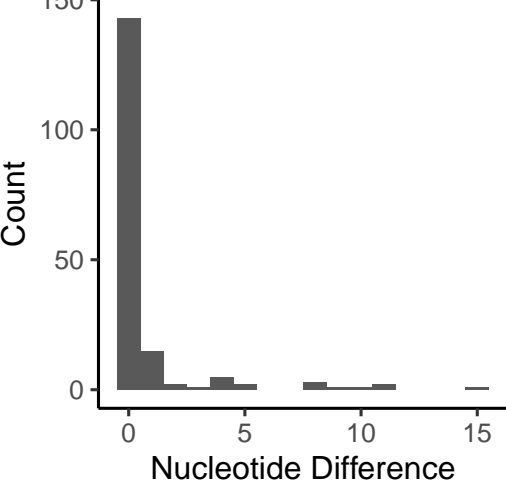
IGHV4–61*02

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



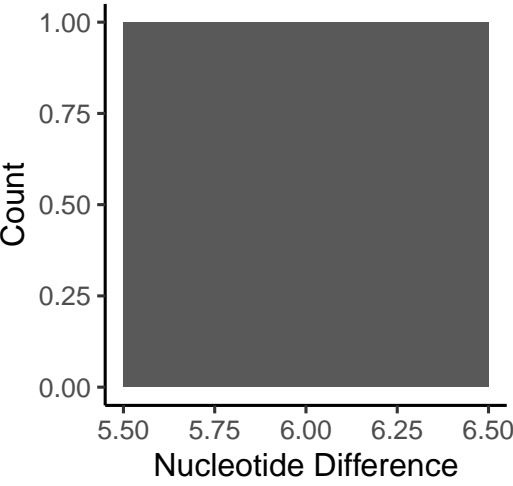
IGHV6–1*01

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



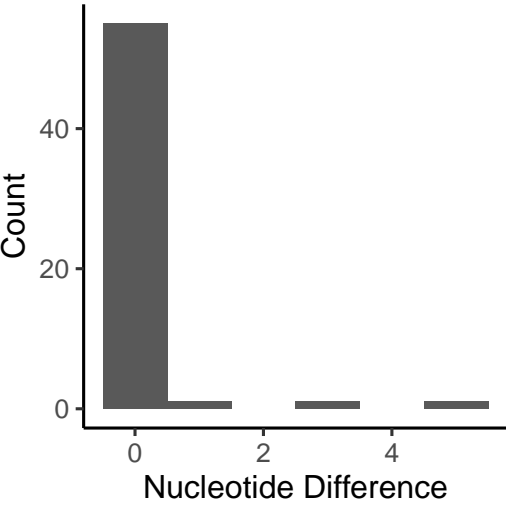
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



IGHV7–4–1*01

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



IGHV1-69*08_C191T

