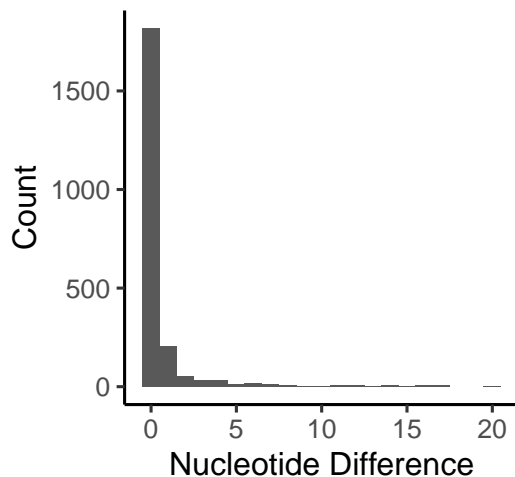


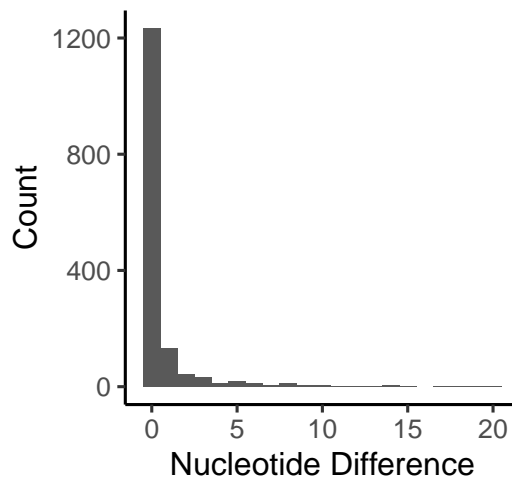
IGHV1-2*02

2271 sequences assigned
1817 (80%) exact matches, in which:
1698 unique CDR3
6 unique J



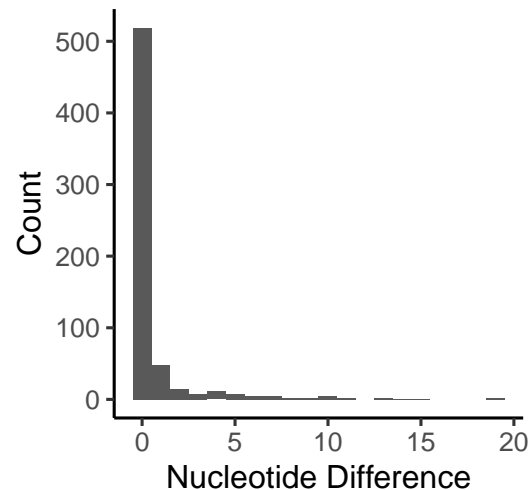
IGHV1-18*01

1535 sequences assigned
1233 (80.3%) exact matches, in which:
1182 unique CDR3
6 unique J



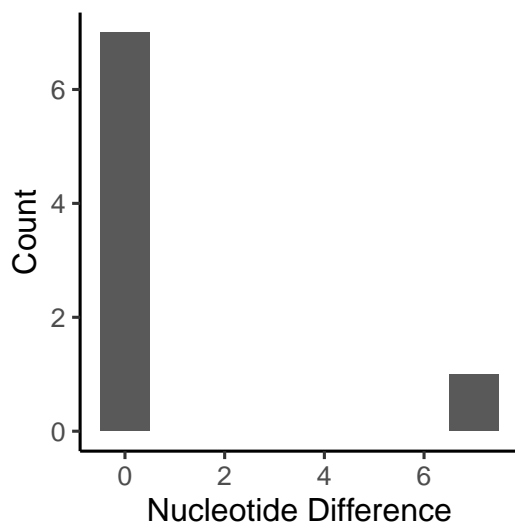
IGHV1-46*03

635 sequences assigned
519 (81.7%) exact matches, in which:
483 unique CDR3
6 unique J



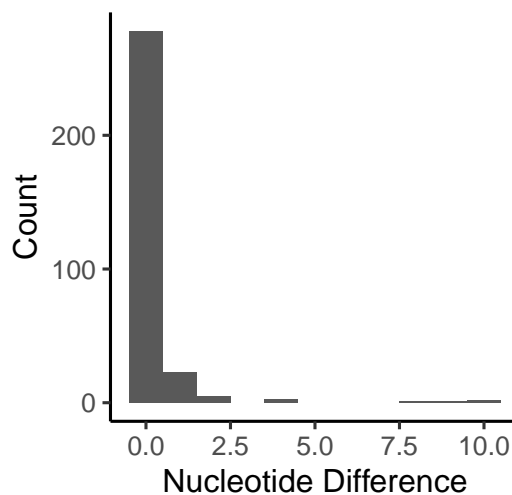
IGHV1-3*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



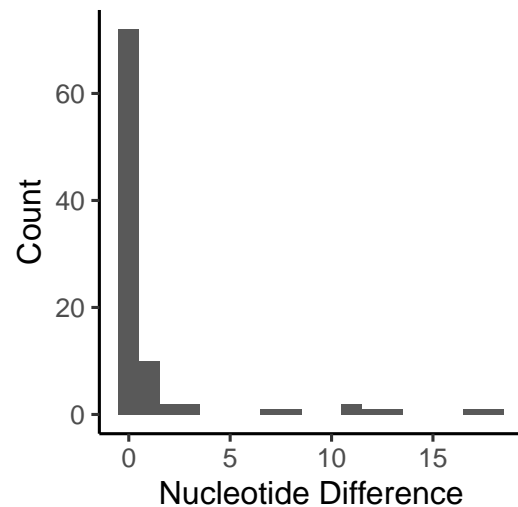
IGHV1-24*01

313 sequences assigned
278 (88.8%) exact matches, in which:
265 unique CDR3
6 unique J



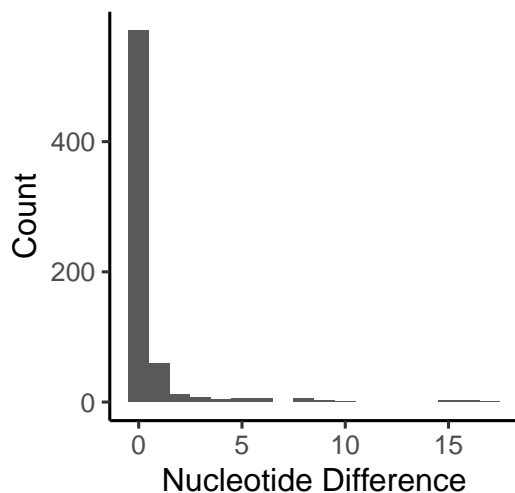
IGHV1-58*02

96 sequences assigned
72 (75%) exact matches, in which:
69 unique CDR3
5 unique J



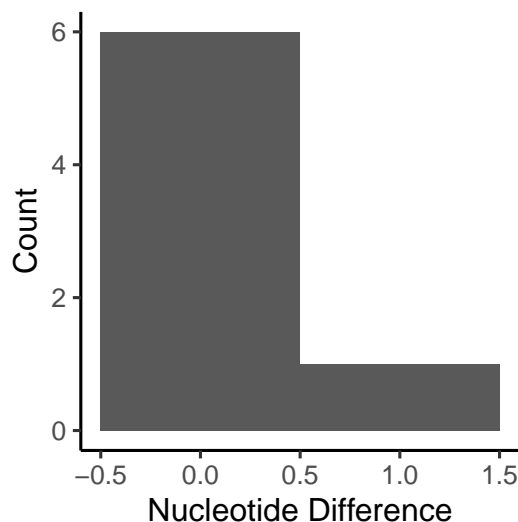
IGHV1-8*01

680 sequences assigned
571 (84%) exact matches, in which:
535 unique CDR3
6 unique J



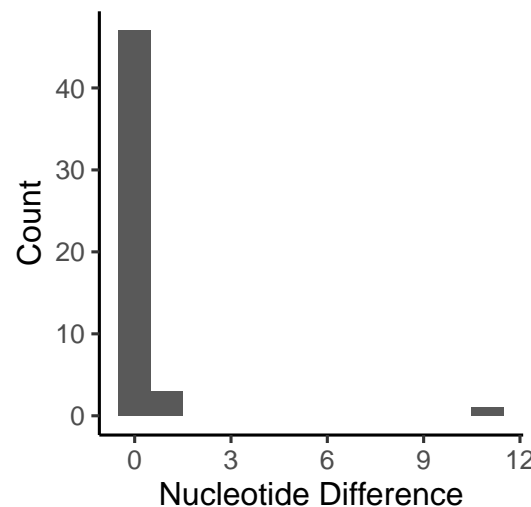
IGHV1-45*02

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



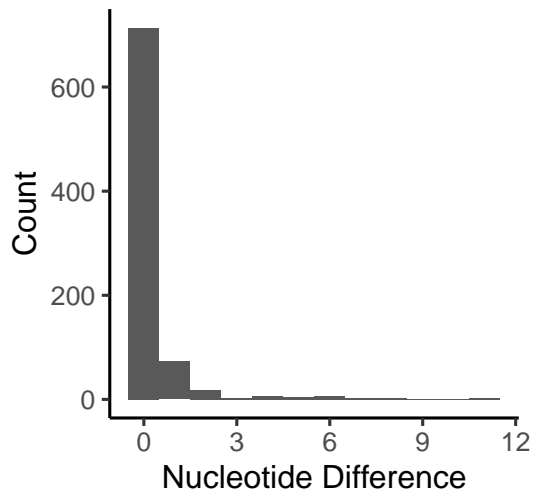
IGHV1-69-2*01

51 sequences assigned
47 (92.2%) exact matches, in which:
47 unique CDR3
5 unique J



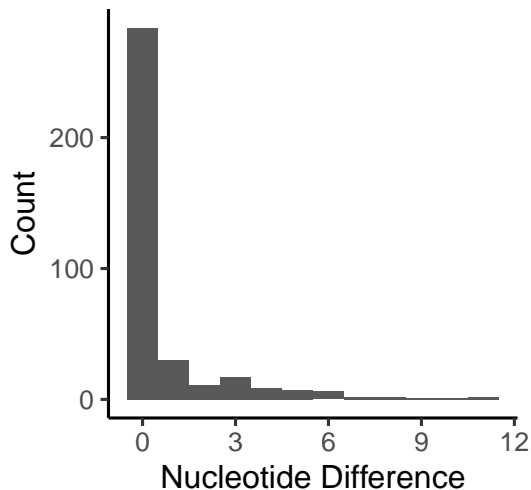
IGHV1–69*02

834 sequences assigned
714 (85.6%) exact matches, in which:
678 unique CDR3
6 unique J



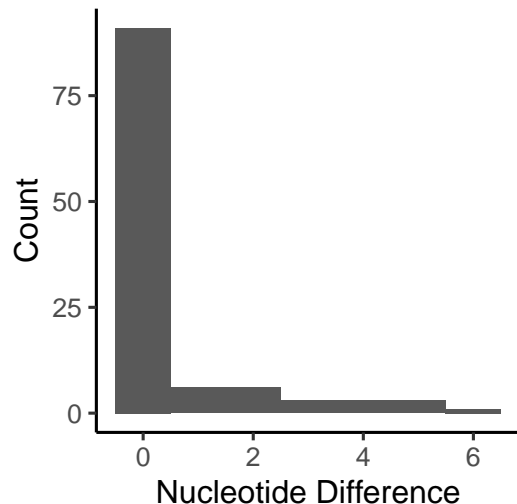
IGHV2–5*02

373 sequences assigned
284 (76.1%) exact matches, in which:
277 unique CDR3
6 unique J



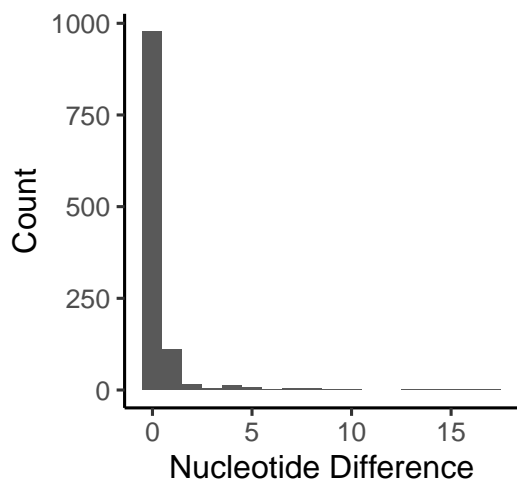
IGHV2–70*15

113 sequences assigned
91 (80.5%) exact matches, in which:
86 unique CDR3
6 unique J



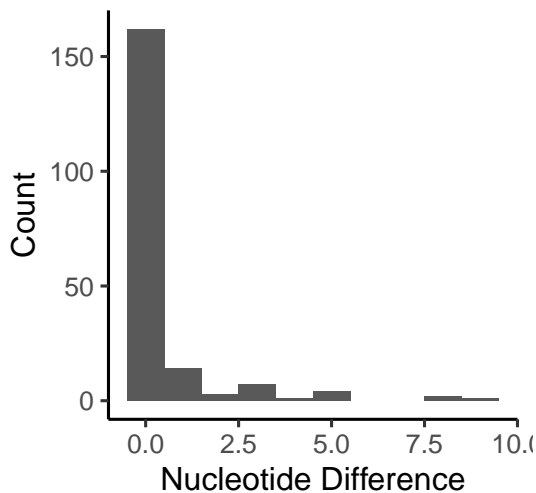
IGHV1–69*09

1149 sequences assigned
977 (85%) exact matches, in which:
910 unique CDR3
6 unique J



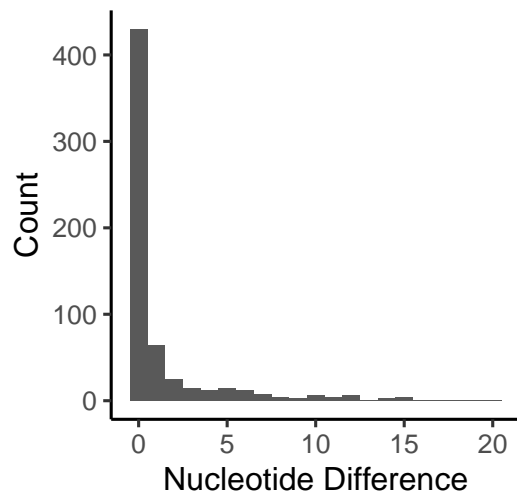
IGHV2–26*01

194 sequences assigned
162 (83.5%) exact matches, in which:
156 unique CDR3
6 unique J



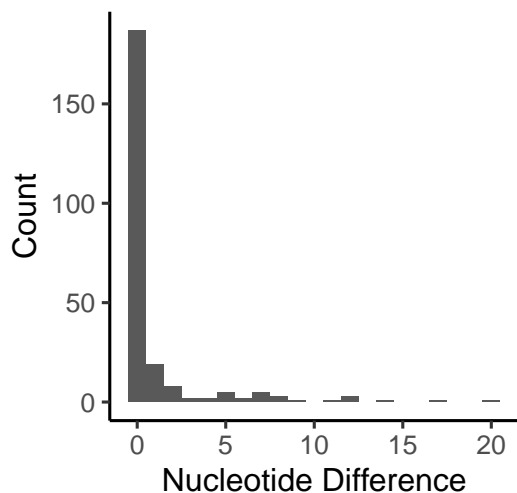
IGHV3–7*01

626 sequences assigned
430 (68.7%) exact matches, in which:
412 unique CDR3
6 unique J



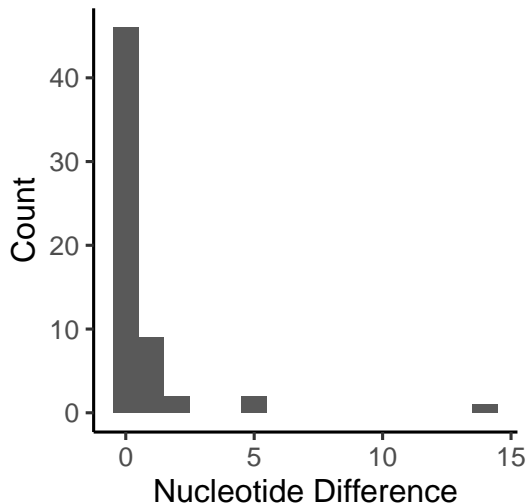
IGHV2–5*01

243 sequences assigned
187 (77%) exact matches, in which:
181 unique CDR3
6 unique J



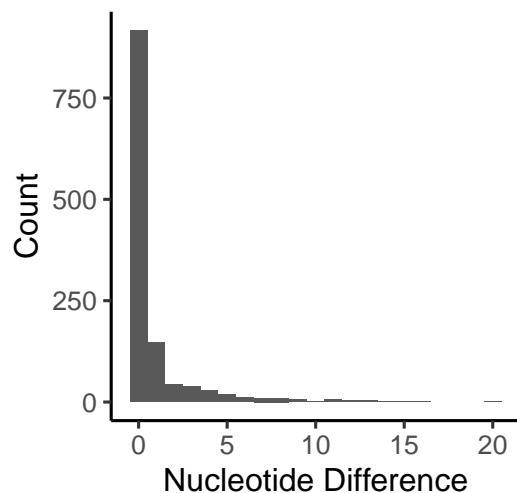
IGHV2–70*01

61 sequences assigned
46 (75.4%) exact matches, in which:
46 unique CDR3
4 unique J



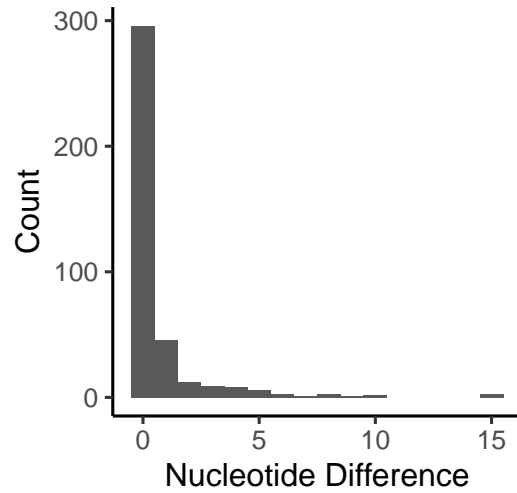
IGHV3–9*01

1249 sequences assigned
917 (73.4%) exact matches, in which:
853 unique CDR3
6 unique J



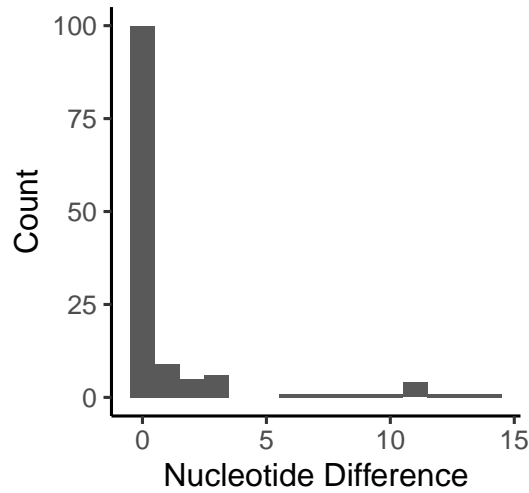
IGHV3-11*01

394 sequences assigned
296 (75.1%) exact matches, in which:
284 unique CDR3
6 unique J



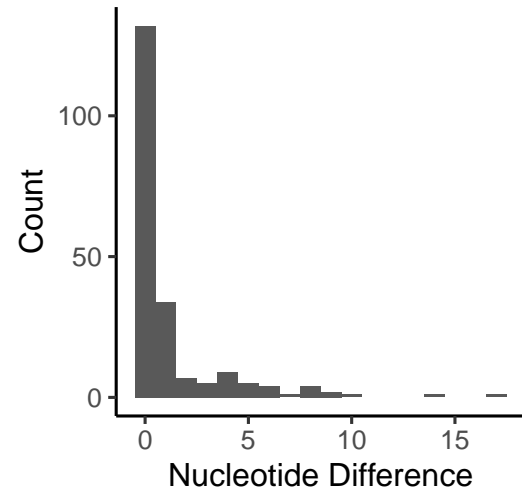
IGHV3-13*04

132 sequences assigned
100 (75.8%) exact matches, in which:
91 unique CDR3
5 unique J



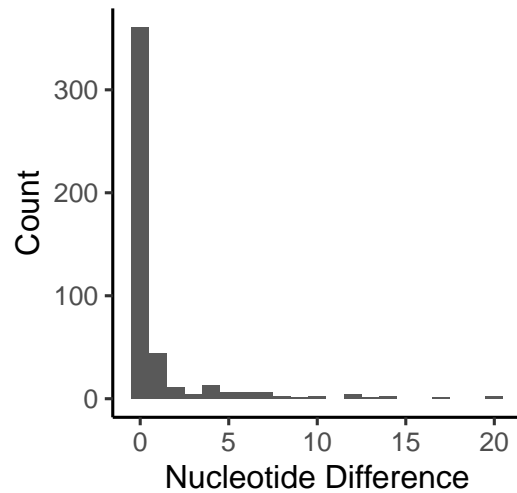
IGHV3-20*04

207 sequences assigned
132 (63.8%) exact matches, in which:
123 unique CDR3
5 unique J



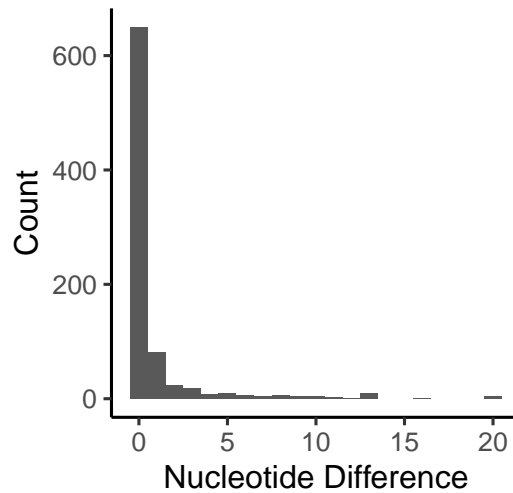
IGHV3-11*05

471 sequences assigned
361 (76.6%) exact matches, in which:
344 unique CDR3
6 unique J



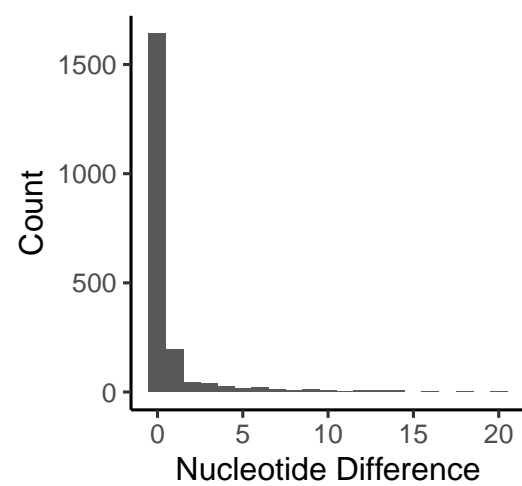
IGHV3-15*01

847 sequences assigned
650 (76.7%) exact matches, in which:
616 unique CDR3
6 unique J



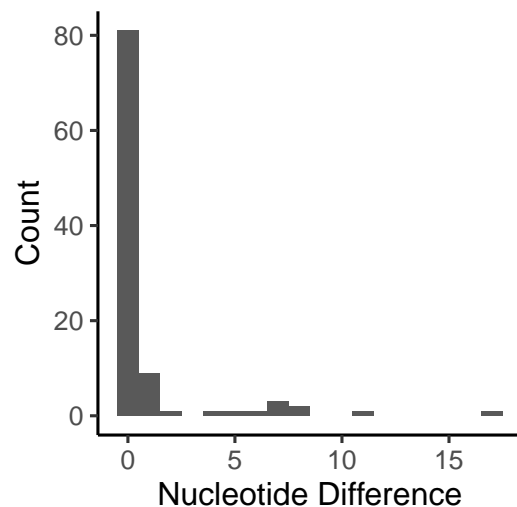
IGHV3-21*01

2049 sequences assigned
1641 (80.1%) exact matches, in which:
1540 unique CDR3
6 unique J



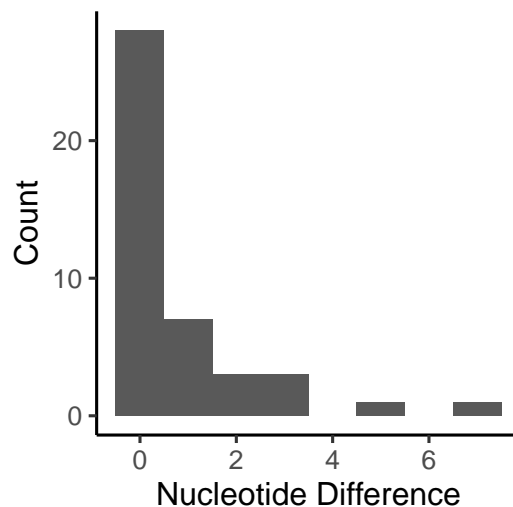
IGHV3-13*01

101 sequences assigned
81 (80.2%) exact matches, in which:
77 unique CDR3
5 unique J



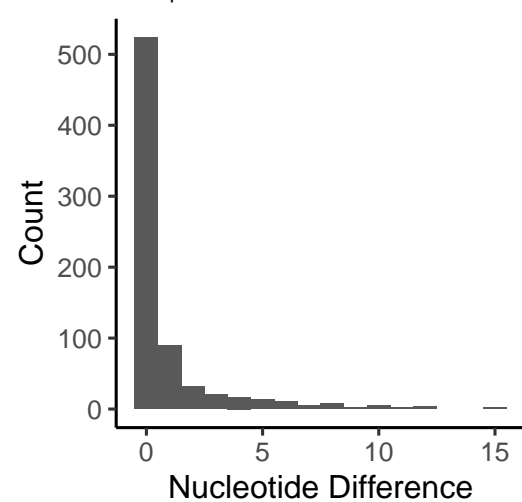
IGHV3-20*01

43 sequences assigned
28 (65.1%) exact matches, in which:
26 unique CDR3
4 unique J



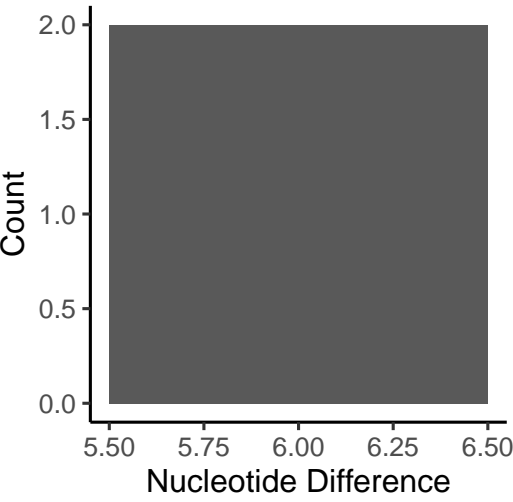
IGHV3-33*01

740 sequences assigned
524 (70.8%) exact matches, in which:
493 unique CDR3
6 unique J



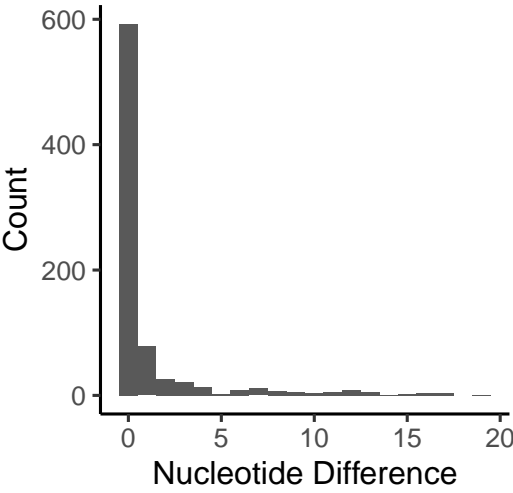
IGHV3-41*02

2 sequences assigned
No exact matches.



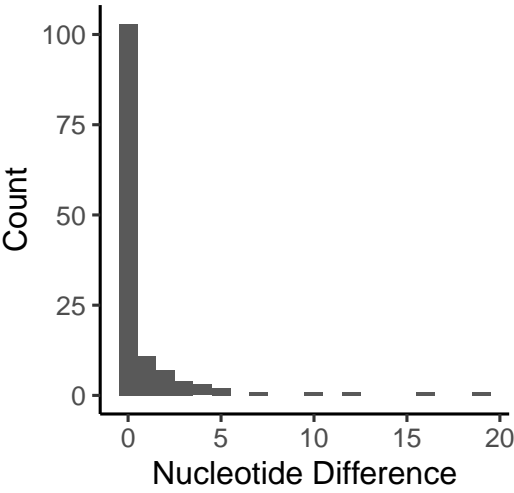
IGHV3-48*01

801 sequences assigned
593 (74%) exact matches, in which:
562 unique CDR3
6 unique J



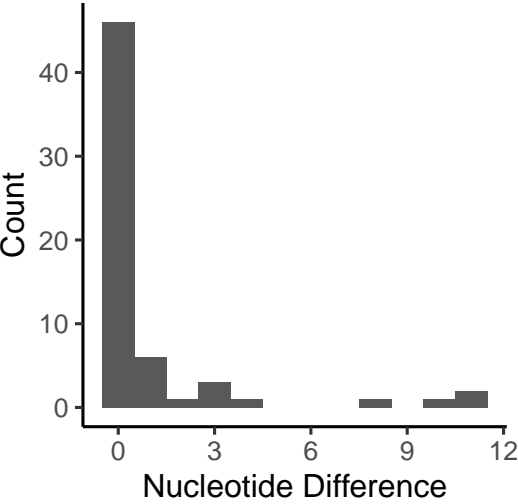
IGHV3-53*02

135 sequences assigned
103 (76.3%) exact matches, in which:
94 unique CDR3
5 unique J



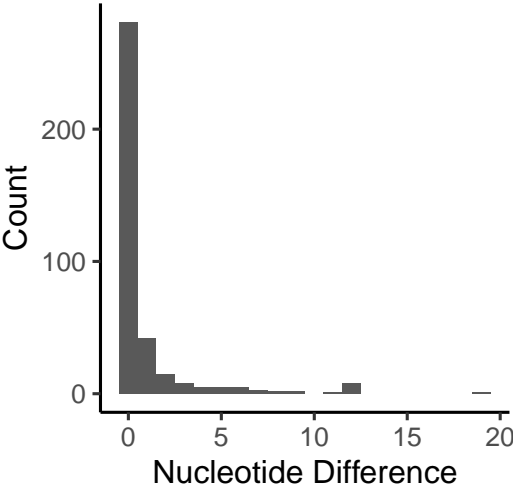
IGHV3-43*01

61 sequences assigned
46 (75.4%) exact matches, in which:
45 unique CDR3
4 unique J



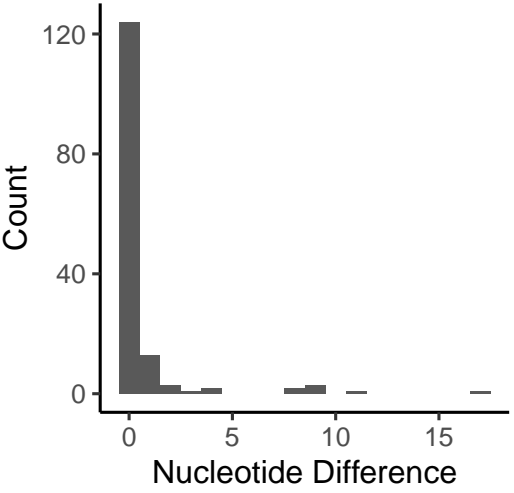
IGHV3-49*03

378 sequences assigned
281 (74.3%) exact matches, in which:
264 unique CDR3
5 unique J



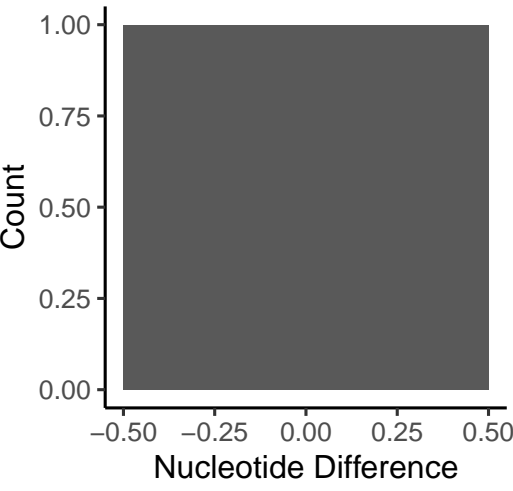
IGHV3-53*04

152 sequences assigned
124 (81.6%) exact matches, in which:
116 unique CDR3
6 unique J



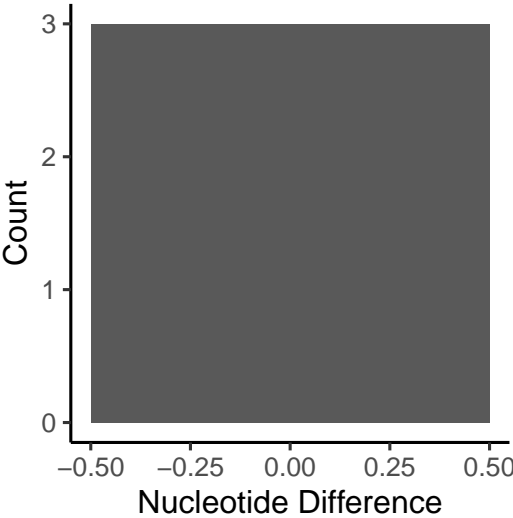
IGHV3-47*02

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



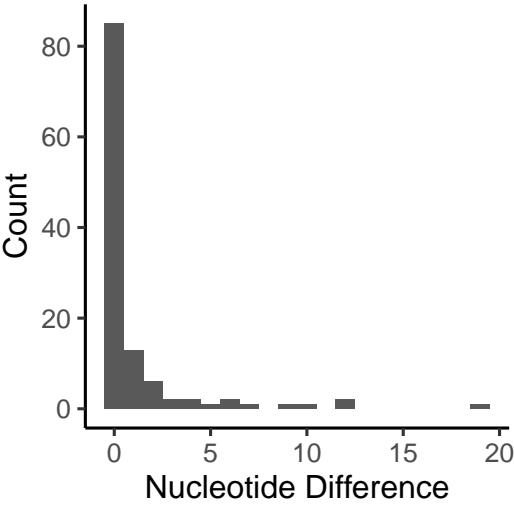
IGHV3-52*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



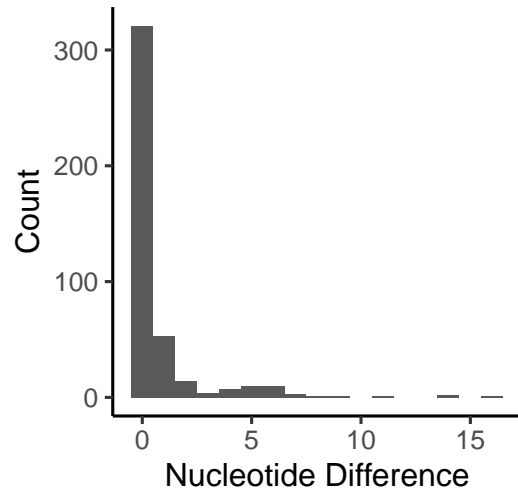
IGHV3-64*01

126 sequences assigned
85 (67.5%) exact matches, in which:
81 unique CDR3
5 unique J



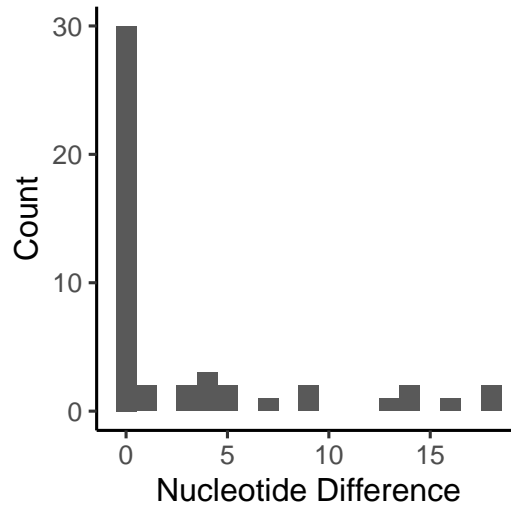
IGHV3-66*01

429 sequences assigned
321 (74.8%) exact matches, in which:
298 unique CDR3
6 unique J



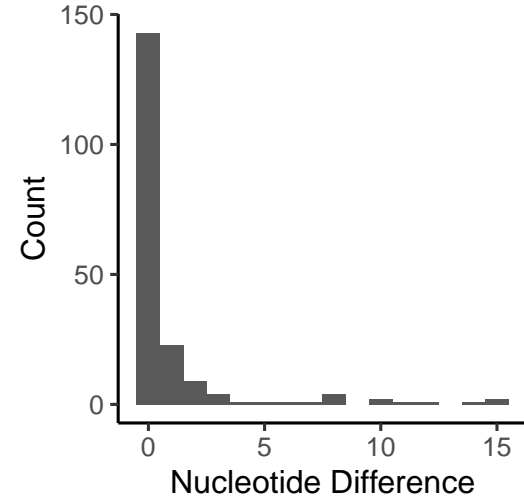
IGHV3-72*01

49 sequences assigned
30 (61.2%) exact matches, in which:
28 unique CDR3
5 unique J



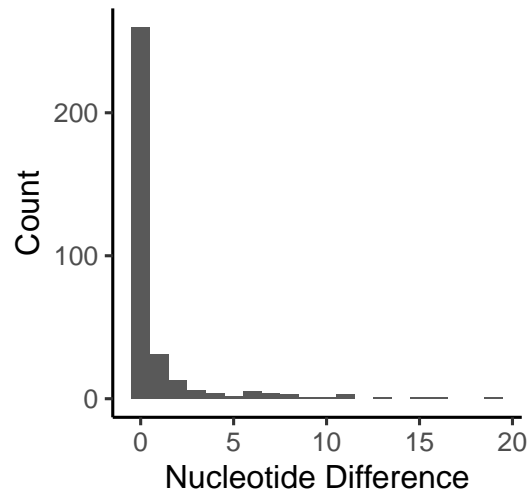
IGHV3-64D*09

195 sequences assigned
143 (73.3%) exact matches, in which:
134 unique CDR3
5 unique J



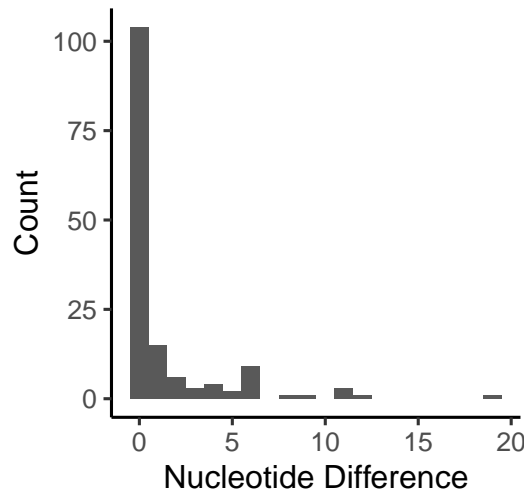
IGHV3-66*02

338 sequences assigned
260 (76.9%) exact matches, in which:
247 unique CDR3
6 unique J



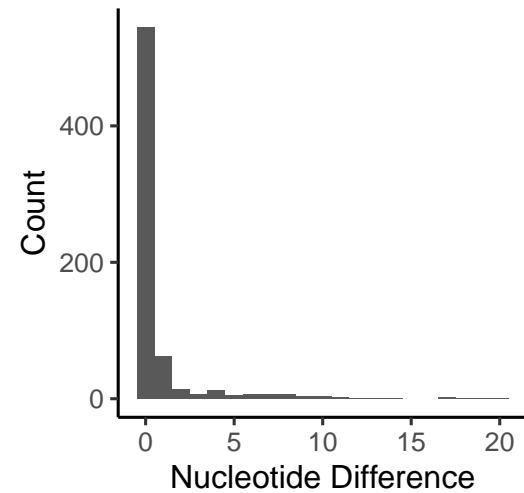
IGHV3-73*01

151 sequences assigned
104 (68.9%) exact matches, in which:
99 unique CDR3
5 unique J



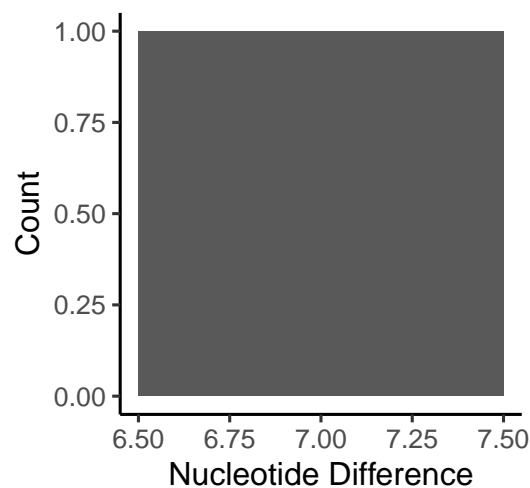
IGHV4-4*07

686 sequences assigned
545 (79.4%) exact matches, in which:
525 unique CDR3
6 unique J



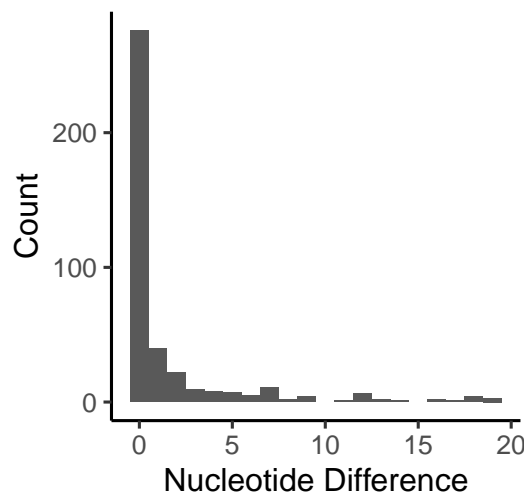
IGHV3-69-1*01

1 sequences assigned
No exact matches.



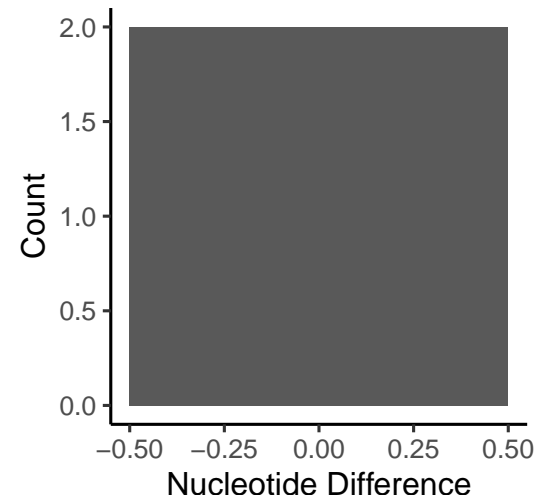
IGHV3-74*01

405 sequences assigned
276 (68.1%) exact matches, in which:
256 unique CDR3
6 unique J



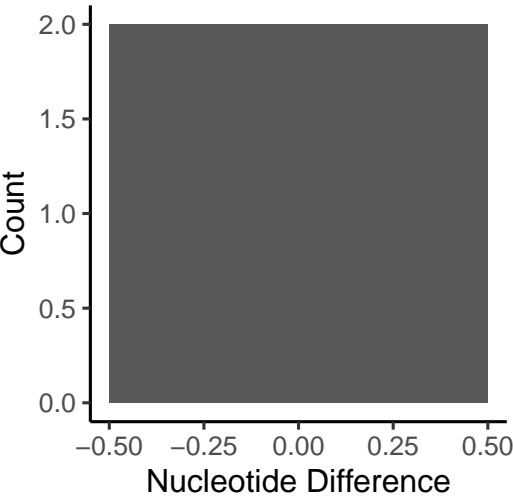
IGHV4-28*01

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



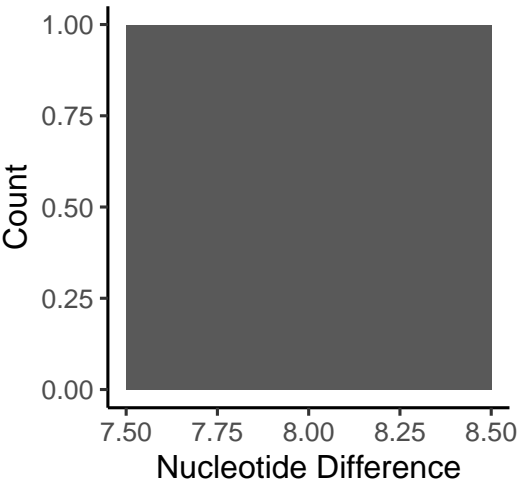
IGHV4-28*03

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



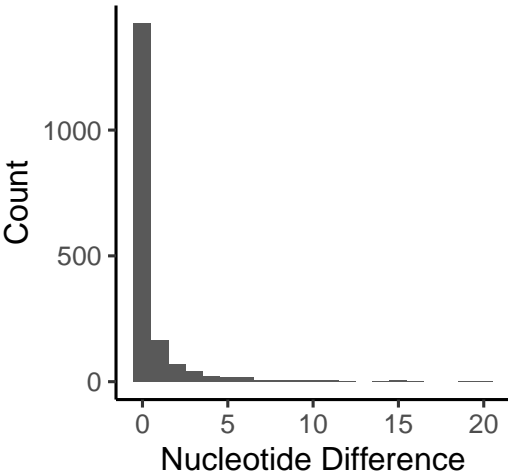
IGHV4-30-4*02

1 sequences assigned
No exact matches.



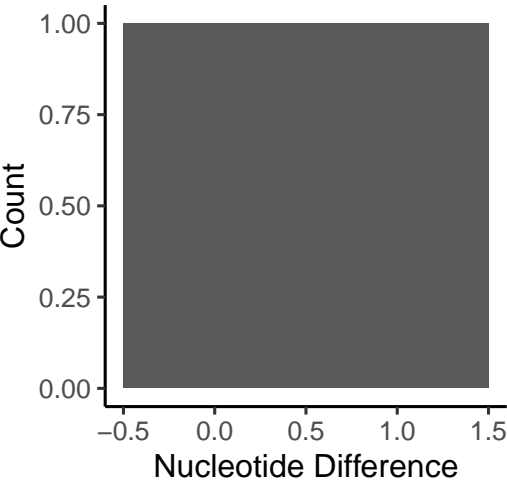
IGHV4-34*01

1810 sequences assigned
1424 (78.7%) exact matches, in which:
1320 unique CDR3
6 unique J



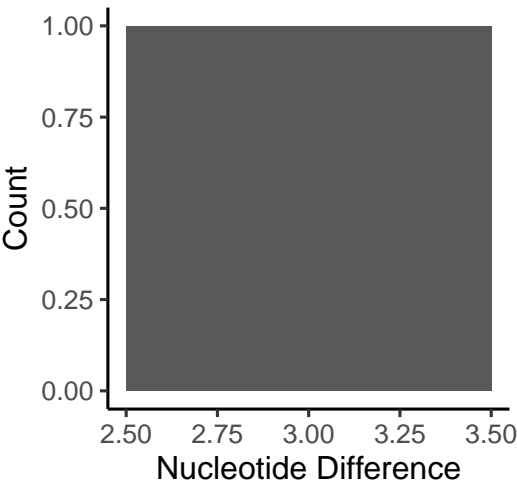
IGHV4-28*04

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



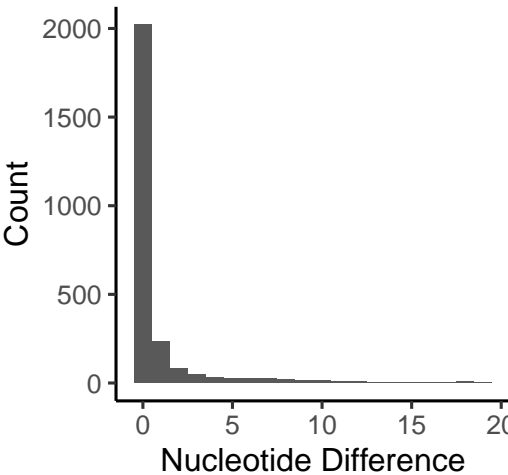
IGHV4-30-2*03

1 sequences assigned
No exact matches.



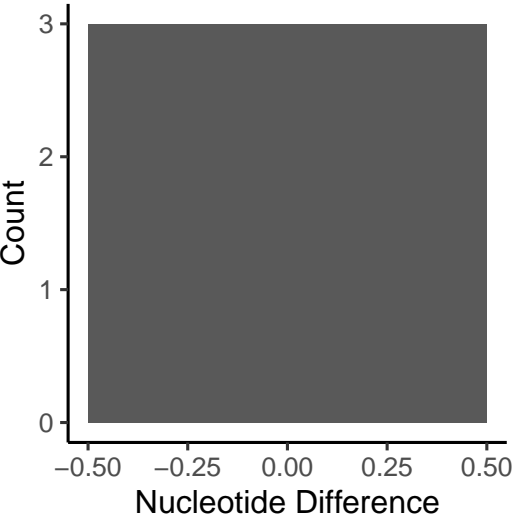
IGHV4-39*01

2579 sequences assigned
2021 (78.4%) exact matches, in which:
1880 unique CDR3
6 unique J



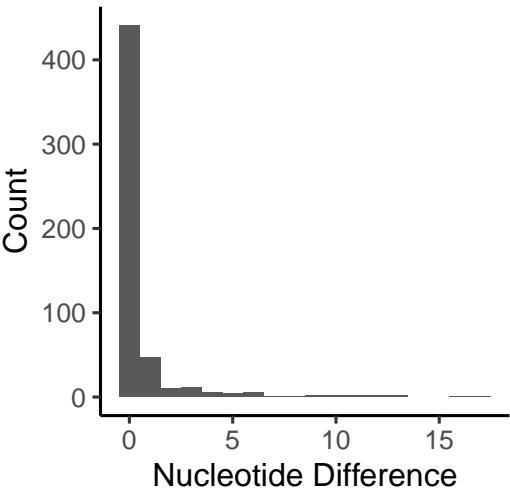
IGHV4-28*07

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



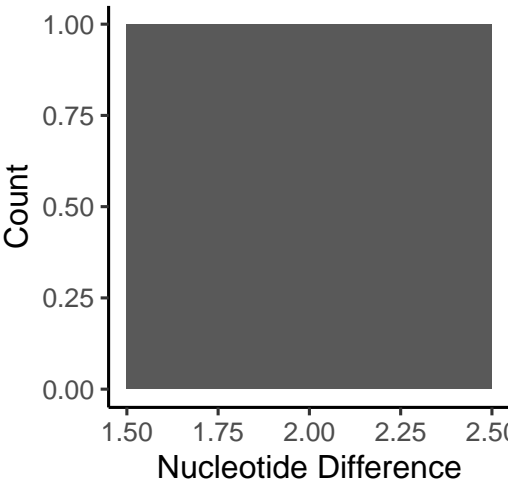
IGHV4-31*03

539 sequences assigned
441 (81.8%) exact matches, in which:
419 unique CDR3
6 unique J



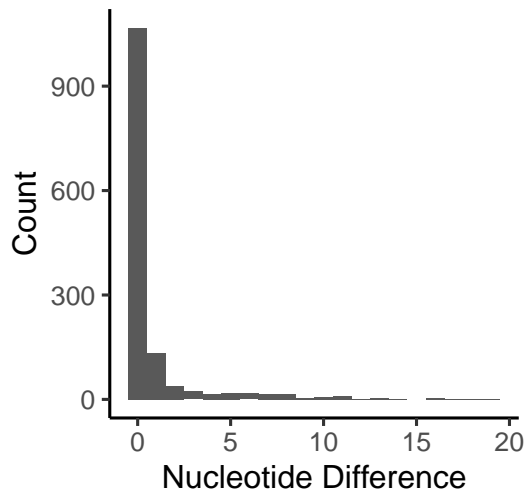
IGHV4-55*08

1 sequences assigned
No exact matches.



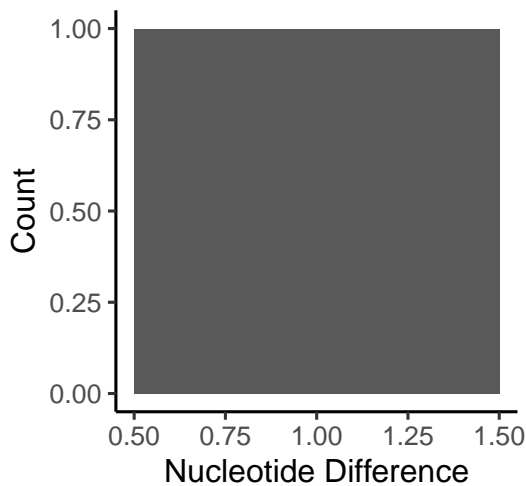
IGHV4–59*01

1384 sequences assigned
1068 (77.2%) exact matches, in which:
1013 unique CDR3
6 unique J



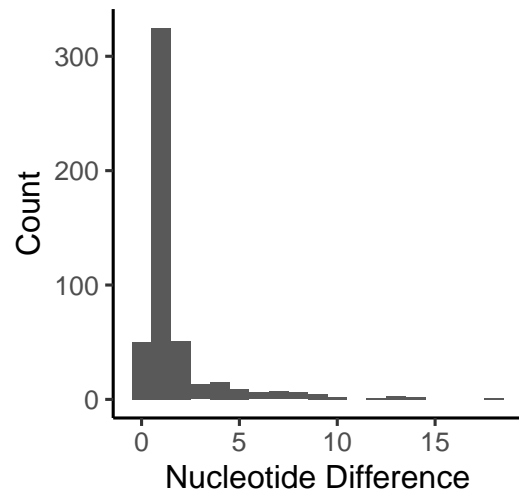
IGHV1/OR15–1*03

1 sequences assigned
No exact matches.



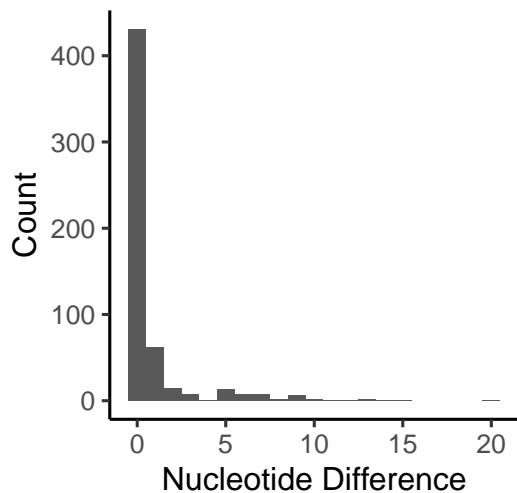
IGHV5–51*01

496 sequences assigned
50 (10.1%) exact matches, in which:
50 unique CDR3
5 unique J



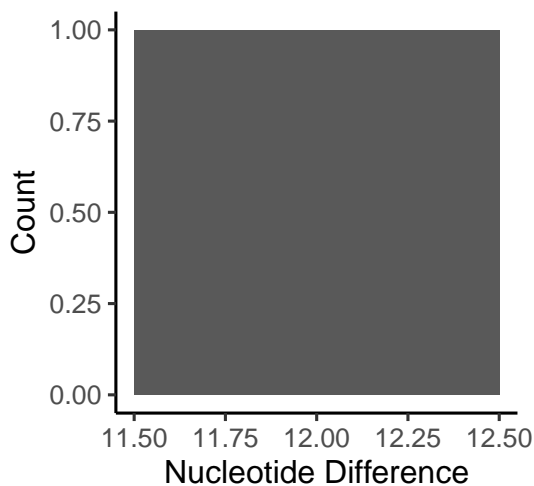
IGHV4–59*08

563 sequences assigned
431 (76.6%) exact matches, in which:
414 unique CDR3
6 unique J



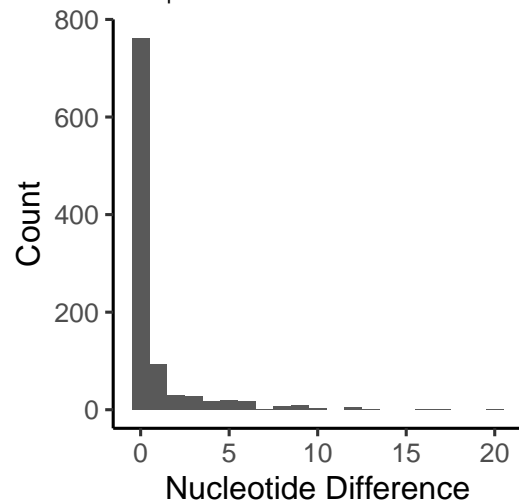
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



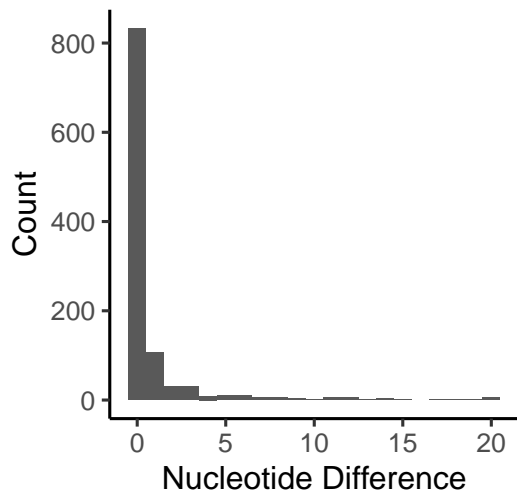
IGHV5–51*03

1008 sequences assigned
762 (75.6%) exact matches, in which:
716 unique CDR3
6 unique J



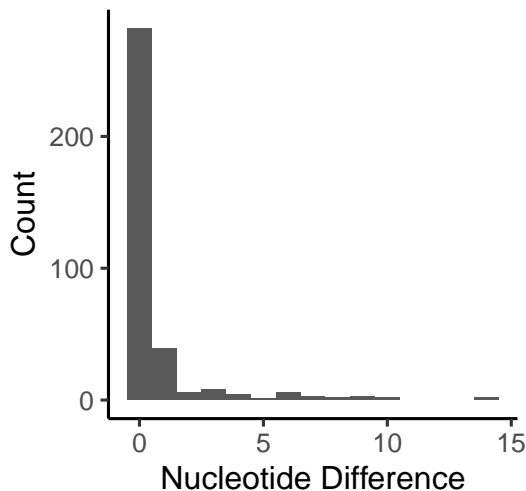
IGHV4–61*02

1086 sequences assigned
833 (76.7%) exact matches, in which:
807 unique CDR3
6 unique J



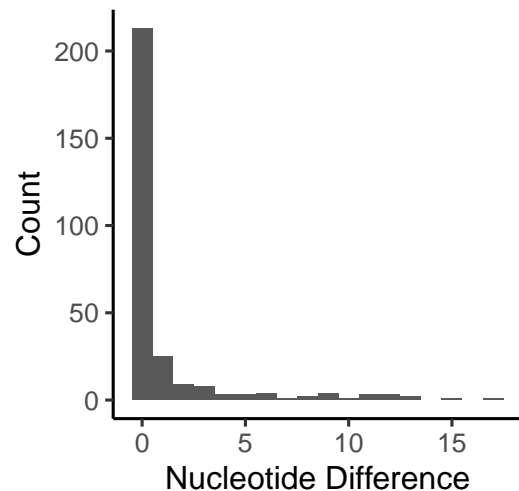
IGHV5–10–1*01

358 sequences assigned
282 (78.8%) exact matches, in which:
266 unique CDR3
5 unique J



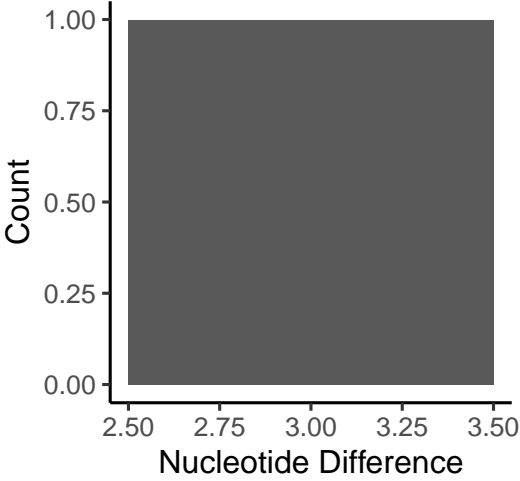
IGHV6–1*01

285 sequences assigned
213 (74.7%) exact matches, in which:
202 unique CDR3
6 unique J



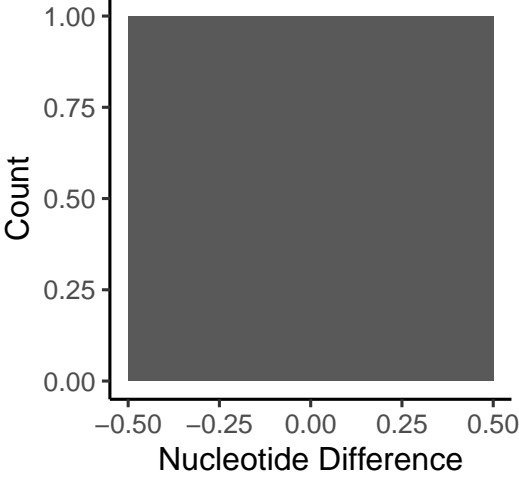
IGHV3/OR16-6*02

1 sequences assigned
No exact matches.



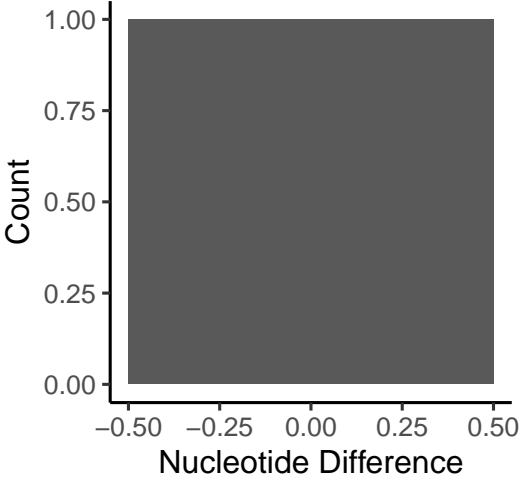
IGHV7-81*01

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



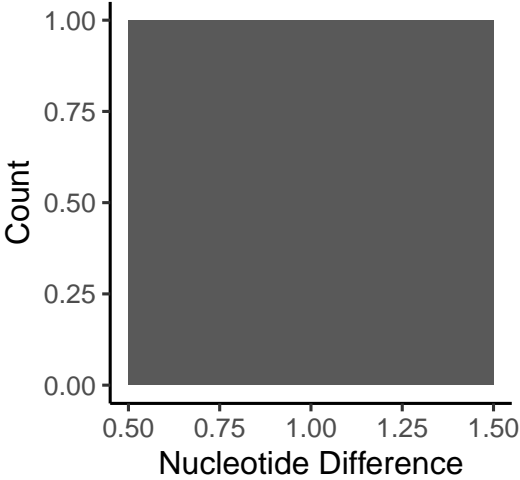
IGHV3/OR16-9*01

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



IGHV3/OR16-12*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

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