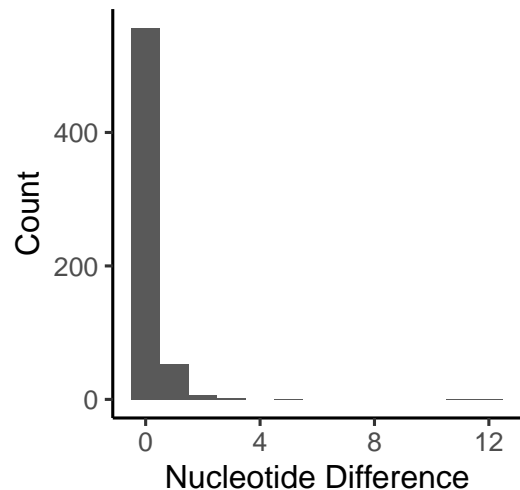


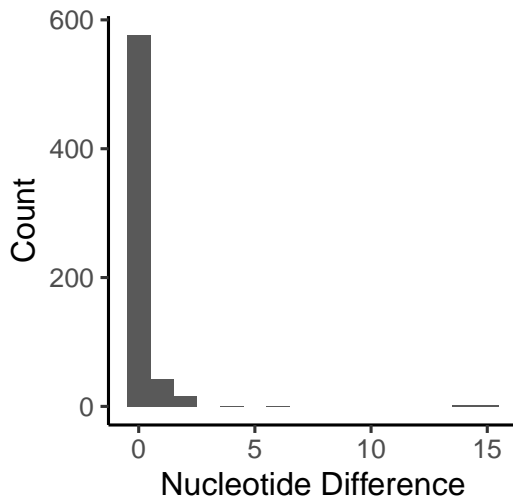
IGHV1-2*02

626 sequences assigned
557 (89%) exact matches, in which:
549 unique CDR3
6 unique J



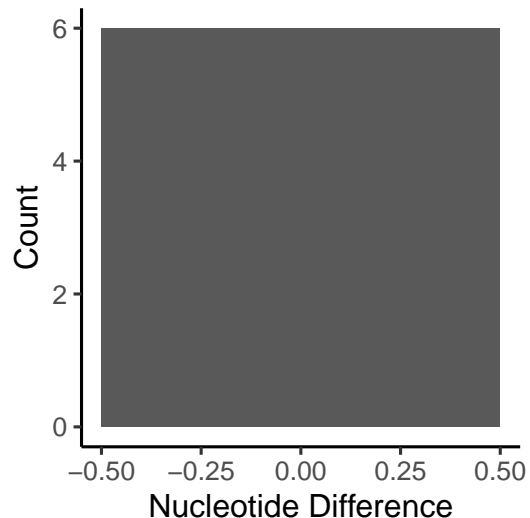
IGHV1-8*01

647 sequences assigned
577 (89.2%) exact matches, in which:
562 unique CDR3
6 unique J



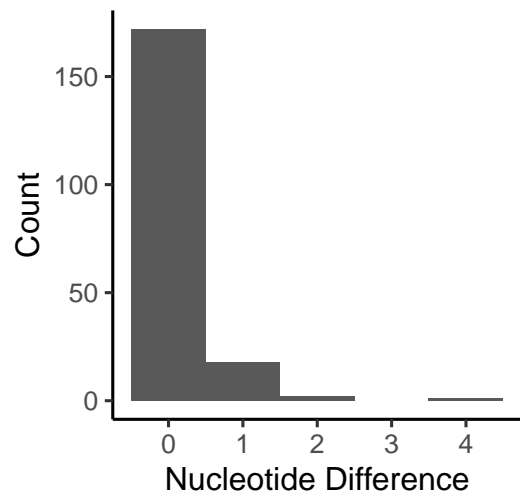
IGHV1-45*02

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



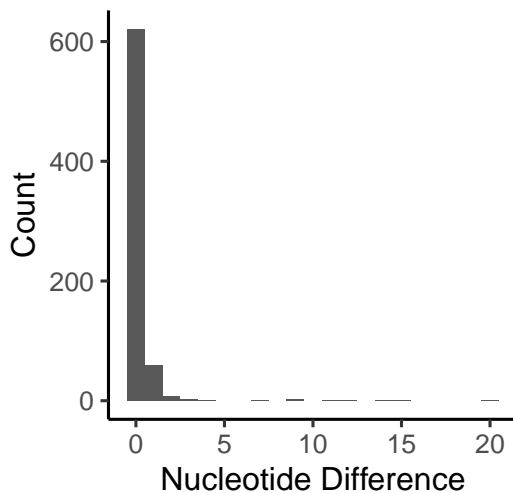
IGHV1-2*04

195 sequences assigned
172 (88.2%) exact matches, in which:
168 unique CDR3
6 unique J



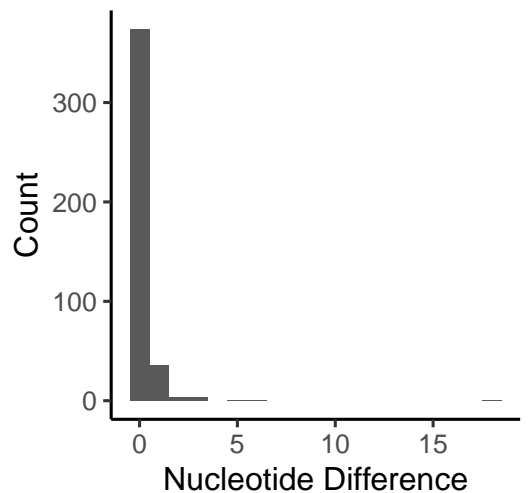
IGHV1-18*01

702 sequences assigned
621 (88.5%) exact matches, in which:
611 unique CDR3
6 unique J



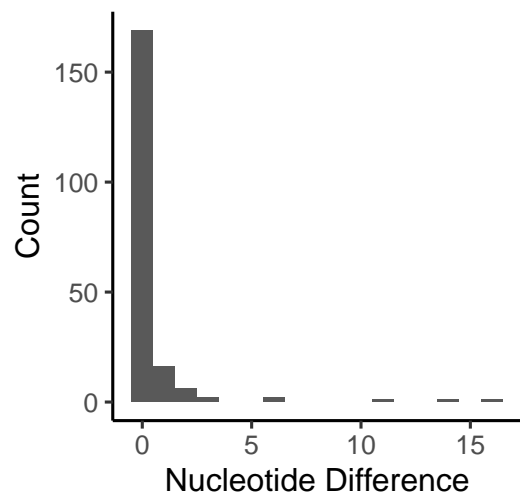
IGHV1-46*01

424 sequences assigned
374 (88.2%) exact matches, in which:
364 unique CDR3
6 unique J



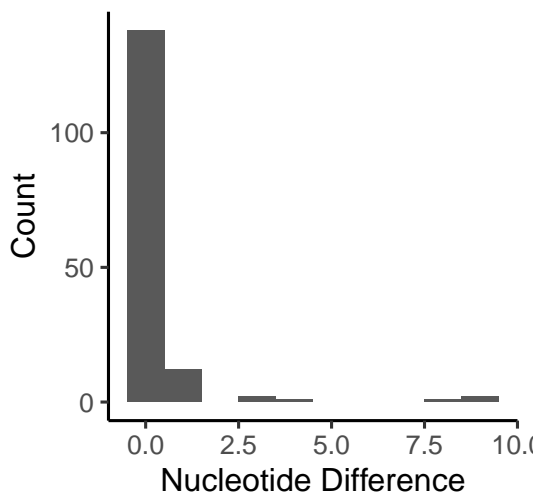
IGHV1-3*01

206 sequences assigned
169 (82%) exact matches, in which:
168 unique CDR3
6 unique J



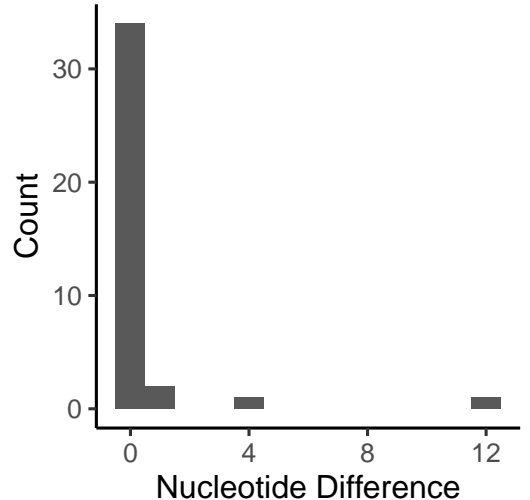
IGHV1-24*01

156 sequences assigned
138 (88.5%) exact matches, in which:
136 unique CDR3
5 unique J



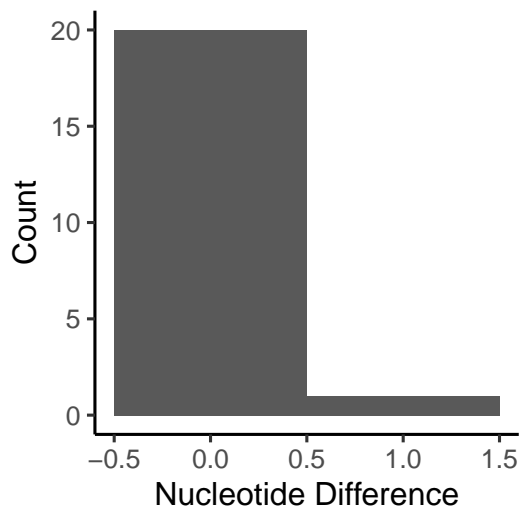
IGHV1-58*01

38 sequences assigned
34 (89.5%) exact matches, in which:
34 unique CDR3
5 unique J



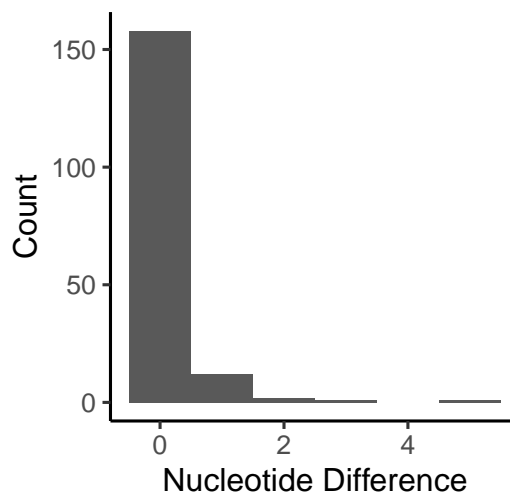
IGHV1-58*02

21 sequences assigned
20 (95.2%) exact matches, in which:
20 unique CDR3
5 unique J



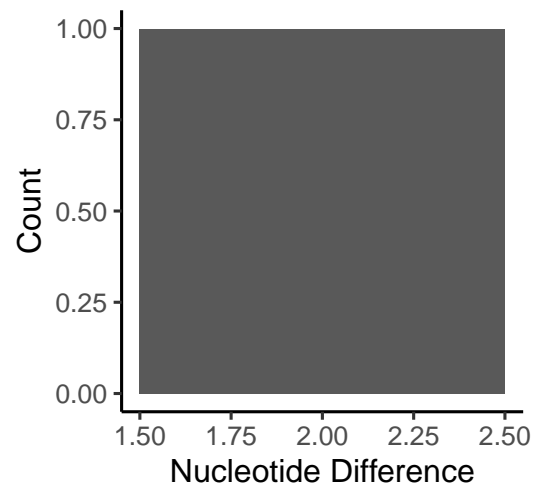
IGHV2-26*01

176 sequences assigned
158 (89.8%) exact matches, in which:
155 unique CDR3
6 unique J



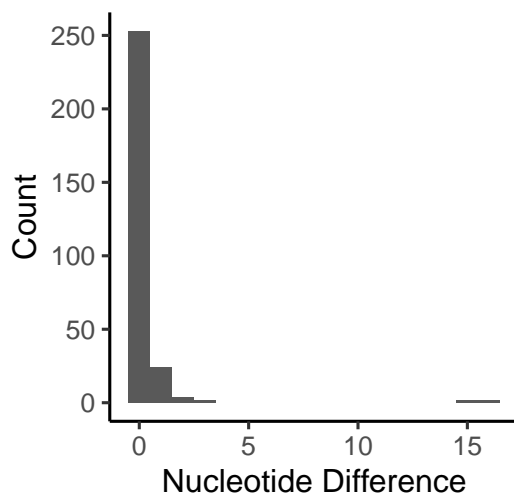
IGHV2-70D*04

1 sequences assigned
No exact matches.



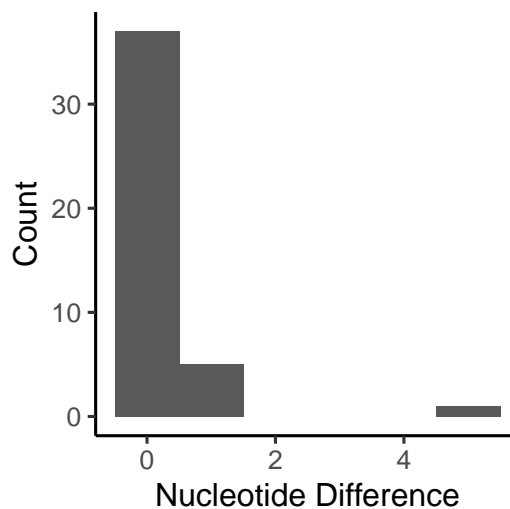
IGHV1-69*08_C191T

289 sequences assigned
253 (87.5%) exact matches, in which:
247 unique CDR3
6 unique J



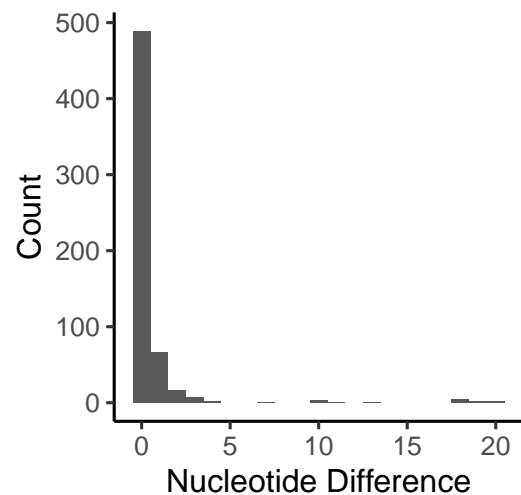
IGHV2-70*01

43 sequences assigned
37 (86%) exact matches, in which:
37 unique CDR3
4 unique J



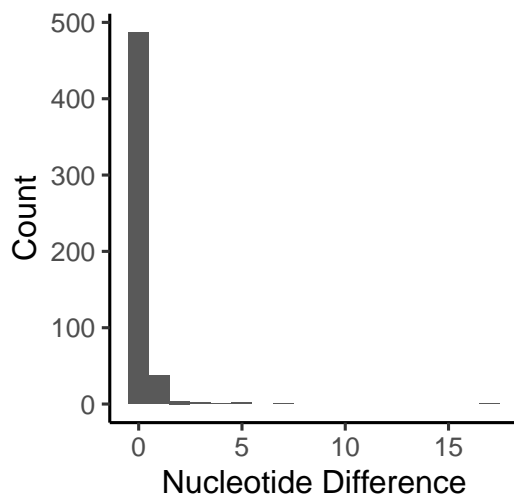
IGHV3-7*01

606 sequences assigned
489 (80.7%) exact matches, in which:
473 unique CDR3
6 unique J



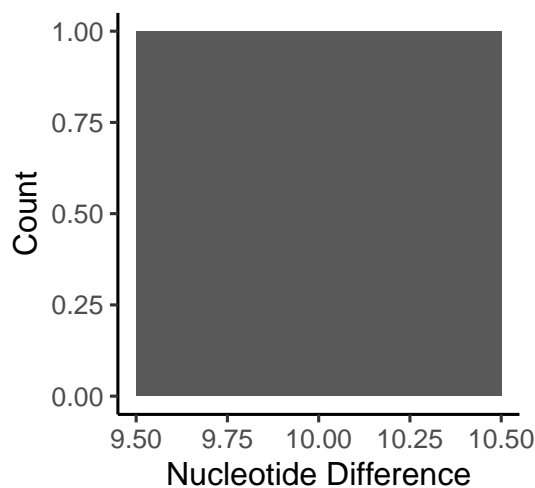
IGHV2-5*02

536 sequences assigned
487 (90.9%) exact matches, in which:
479 unique CDR3
6 unique J



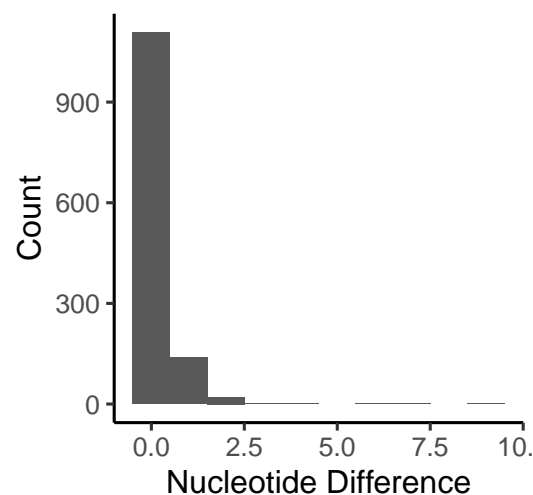
IGHV2-70*12

1 sequences assigned
No exact matches.



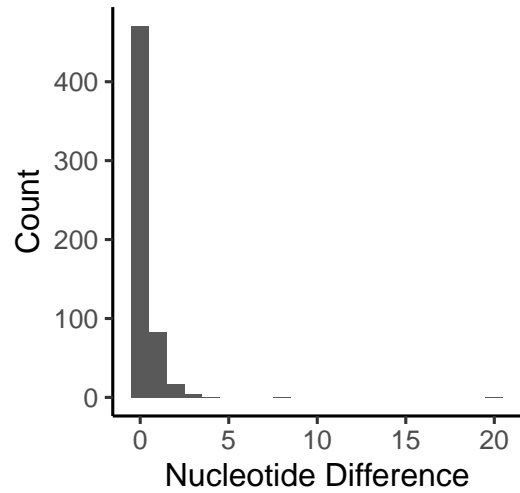
IGHV3-9*01

1282 sequences assigned
1108 (86.4%) exact matches, in which:
1059 unique CDR3
6 unique J



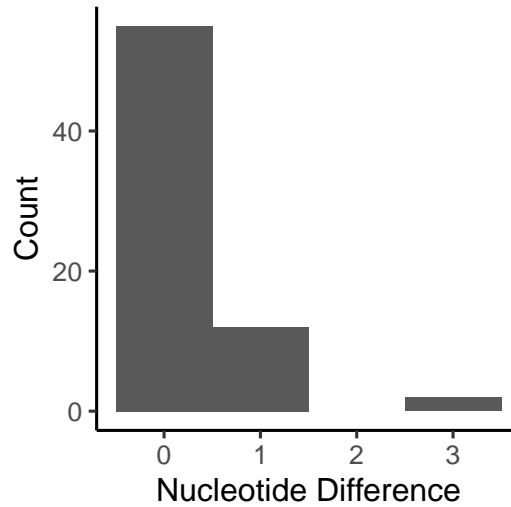
IGHV3–11*01

578 sequences assigned
471 (81.5%) exact matches, in which:
460 unique CDR3
6 unique J



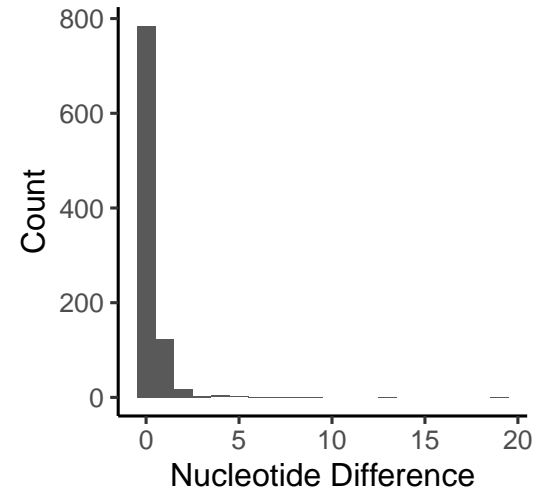
IGHV3–20*01

69 sequences assigned
55 (79.7%) exact matches, in which:
50 unique CDR3
5 unique J



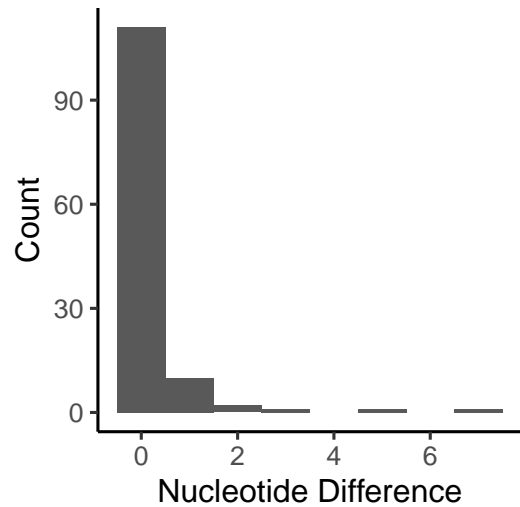
IGHV3–33*01

952 sequences assigned
785 (82.5%) exact matches, in which:
752 unique CDR3
6 unique J



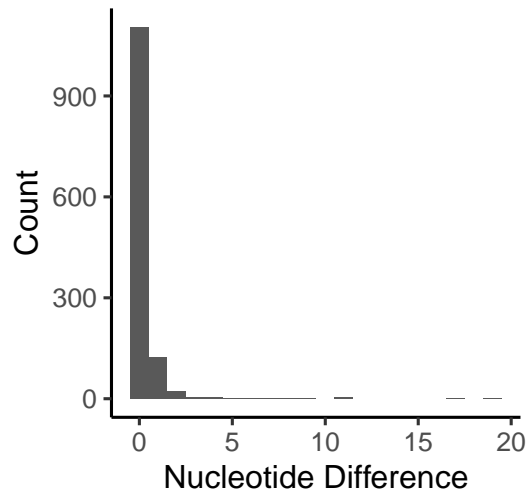
IGHV3–13*01

126 sequences assigned
111 (88.1%) exact matches, in which:
110 unique CDR3
5 unique J



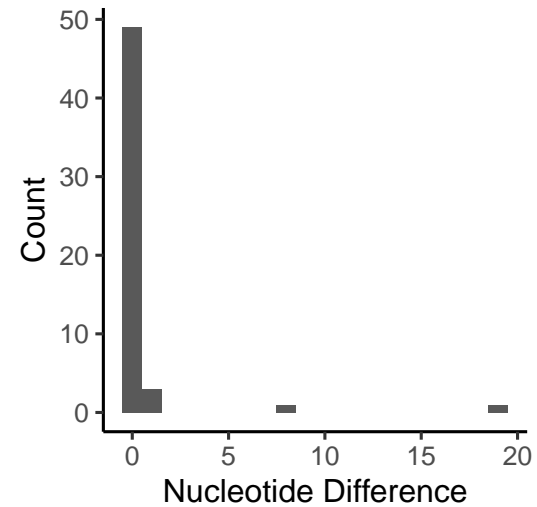
IGHV3–21*01

1268 sequences assigned
1105 (87.1%) exact matches, in which:
1061 unique CDR3
6 unique J



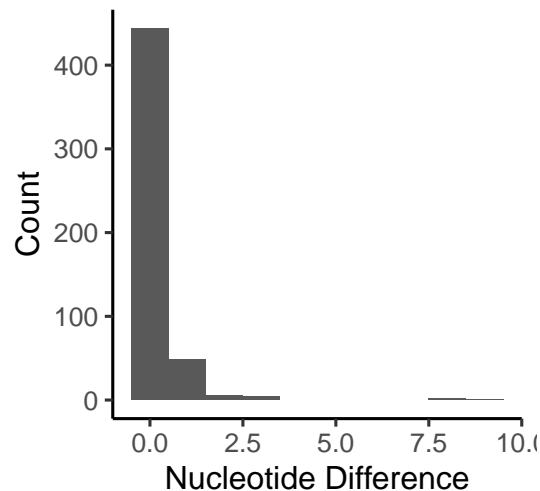
IGHV3–43*01

57 sequences assigned
49 (86%) exact matches, in which:
46 unique CDR3
5 unique J



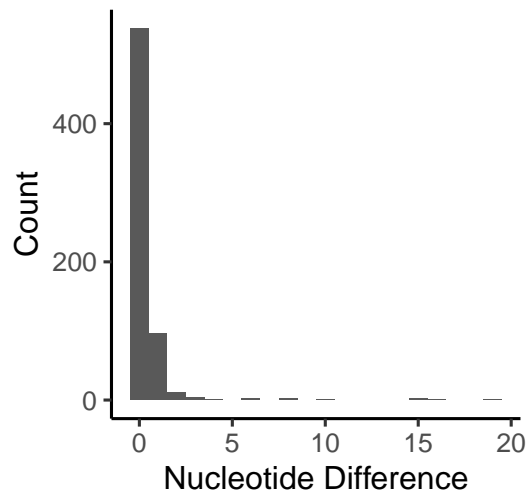
IGHV3–15*01

507 sequences assigned
444 (87.6%) exact matches, in which:
431 unique CDR3
6 unique J



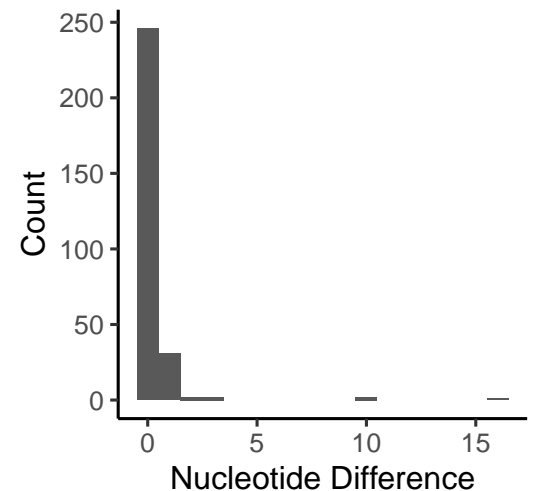
IGHV3–30–3*01

659 sequences assigned
538 (81.6%) exact matches, in which:
523 unique CDR3
6 unique J



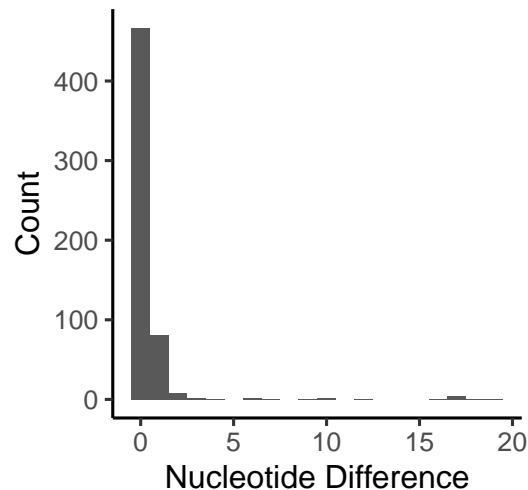
IGHV3–48*02

290 sequences assigned
246 (84.8%) exact matches, in which:
239 unique CDR3
6 unique J



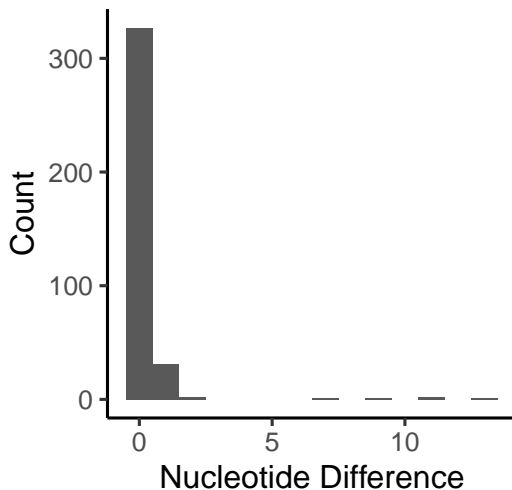
IGHV3-48*03

573 sequences assigned
467 (81.5%) exact matches, in which:
453 unique CDR3
6 unique J



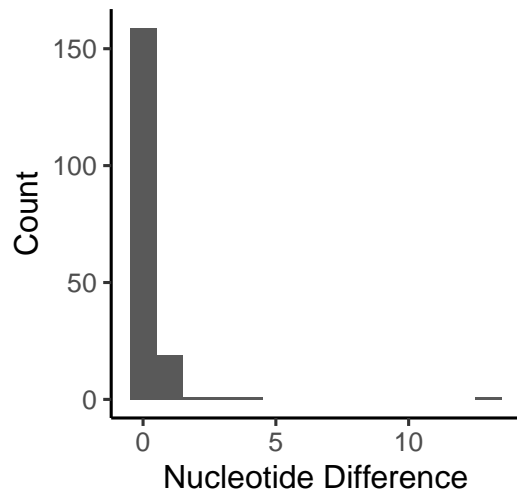
IGHV3-53*01

368 sequences assigned
327 (88.9%) exact matches, in which:
318 unique CDR3
6 unique J



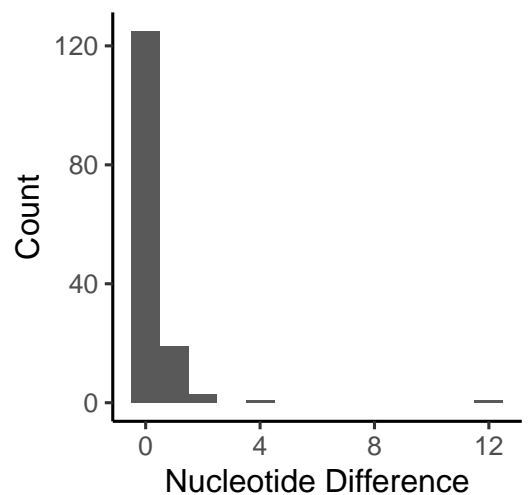
IGHV3-66*02

183 sequences assigned
159 (86.9%) exact matches, in which:
155 unique CDR3
6 unique J



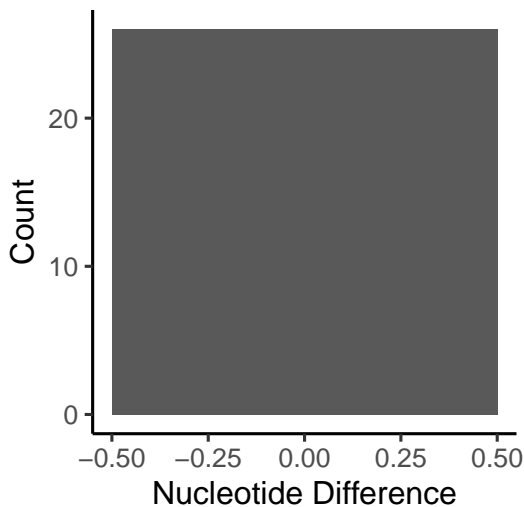
IGHV3-49*04

154 sequences assigned
125 (81.2%) exact matches, in which:
122 unique CDR3
6 unique J



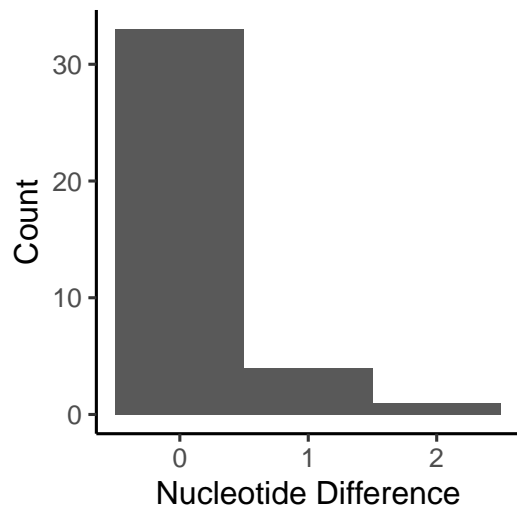
IGHV3-64*01

26 sequences assigned
26 (100%) exact matches, in which:
24 unique CDR3
4 unique J



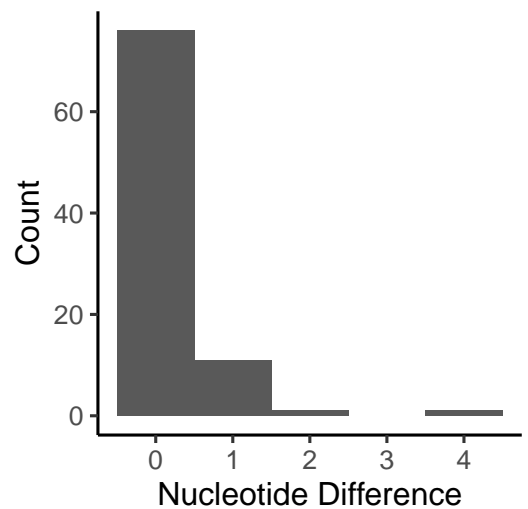
IGHV3-72*01

38 sequences assigned
33 (86.8%) exact matches, in which:
31 unique CDR3
5 unique J



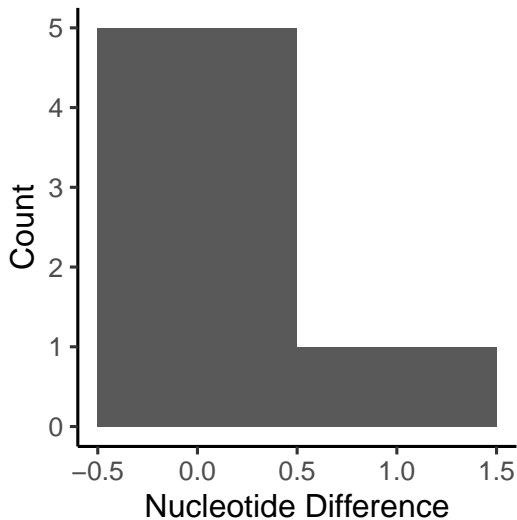
IGHV3-49*05

89 sequences assigned
76 (85.4%) exact matches, in which:
71 unique CDR3
5 unique J



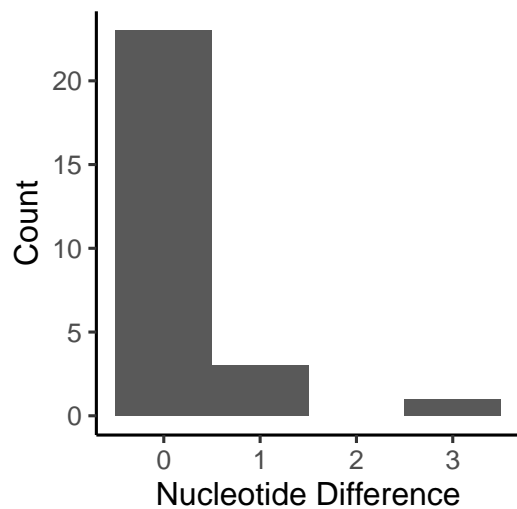
IGHV3-64*02

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
3 unique J



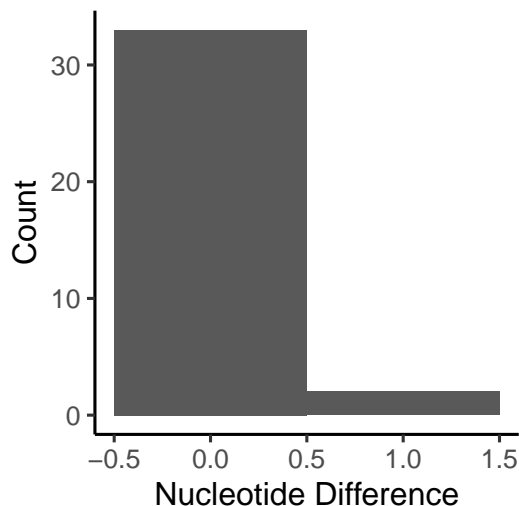
IGHV3-73*01

27 sequences assigned
23 (85.2%) exact matches, in which:
23 unique CDR3
3 unique J



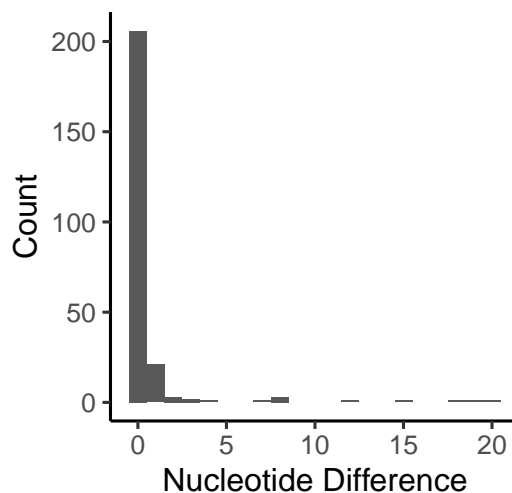
IGHV3-73*02

35 sequences assigned
33 (94.3%) exact matches, in which:
31 unique CDR3
6 unique J



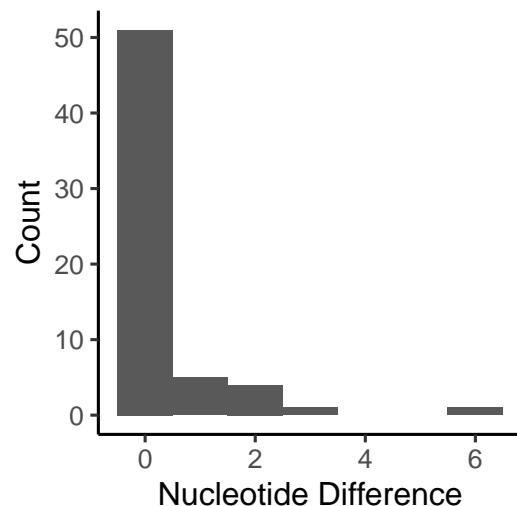
IGHV4-4*02

247 sequences assigned
206 (83.4%) exact matches, in which:
204 unique CDR3
6 unique J



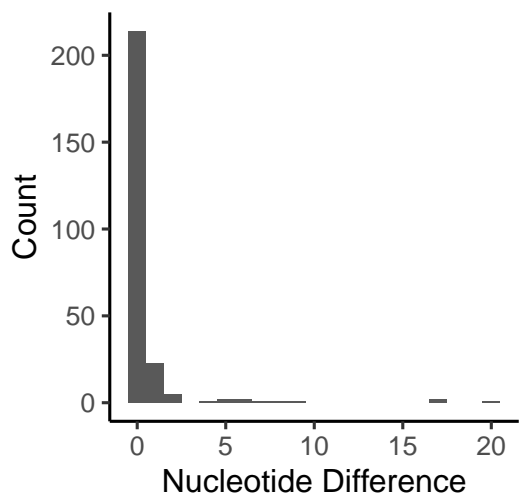
IGHV4-30-2*01

62 sequences assigned
51 (82.3%) exact matches, in which:
51 unique CDR3
6 unique J



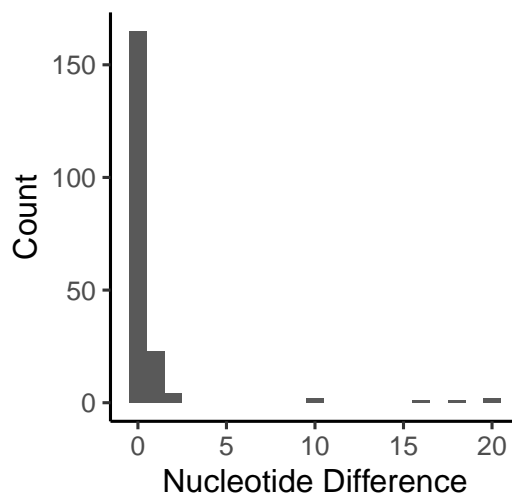
IGHV3-74*01

254 sequences assigned
214 (84.3%) exact matches, in which:
204 unique CDR3
6 unique J



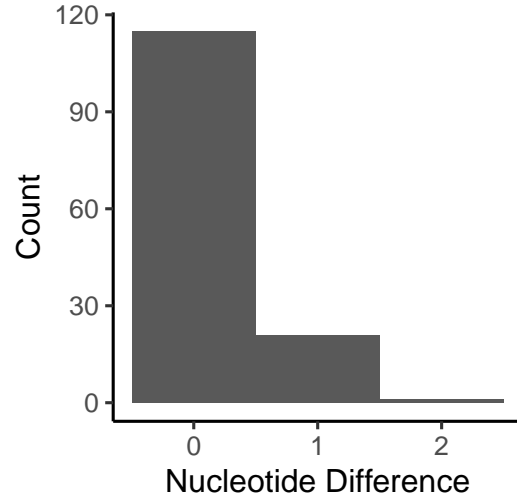
IGHV4-4*07

202 sequences assigned
165 (81.7%) exact matches, in which:
162 unique CDR3
6 unique J



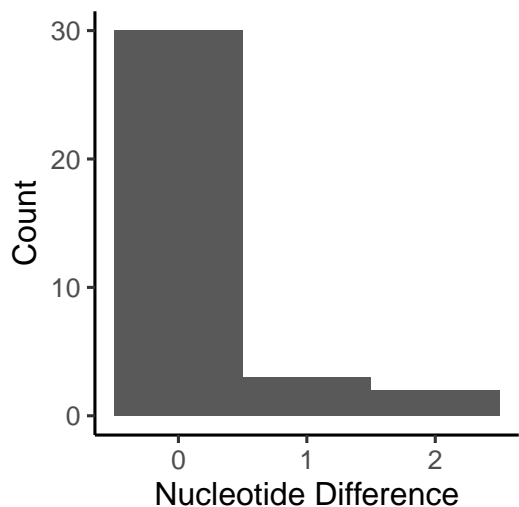
IGHV4-30-4*01

140 sequences assigned
115 (82.1%) exact matches, in which:
114 unique CDR3
5 unique J



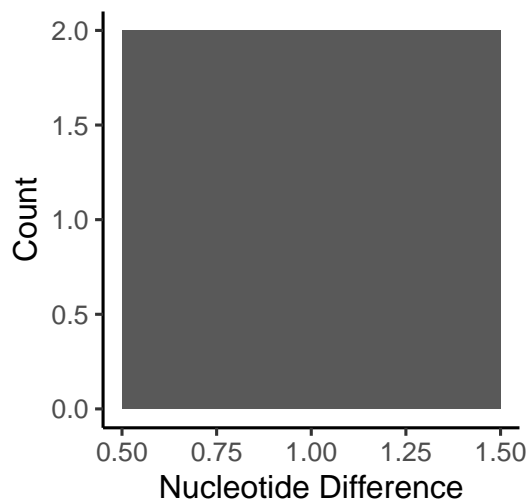
IGHV3-43D*04

35 sequences assigned
30 (85.7%) exact matches, in which:
29 unique CDR3
3 unique J



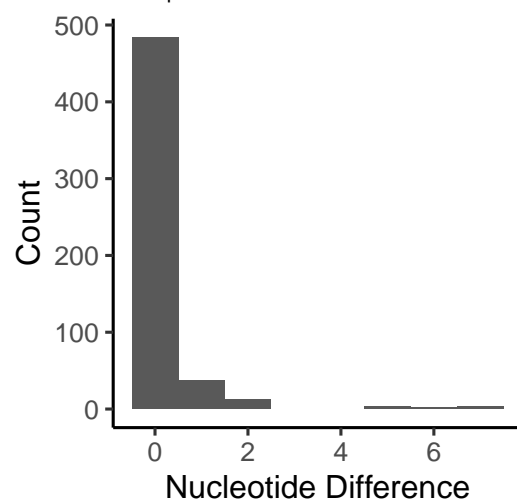
IGHV4-28*01

2 sequences assigned
No exact matches.



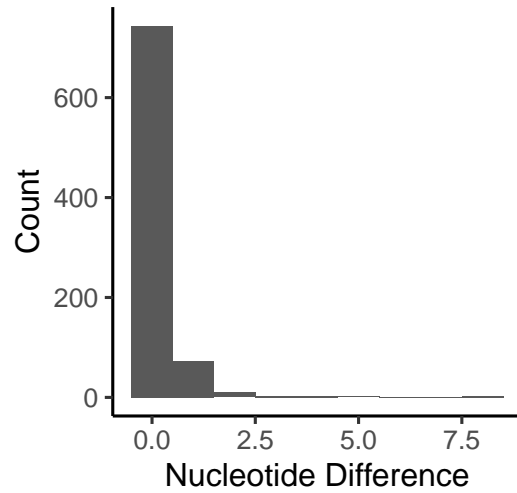
IGHV4-31*03

541 sequences assigned
484 (89.5%) exact matches, in which:
476 unique CDR3
6 unique J



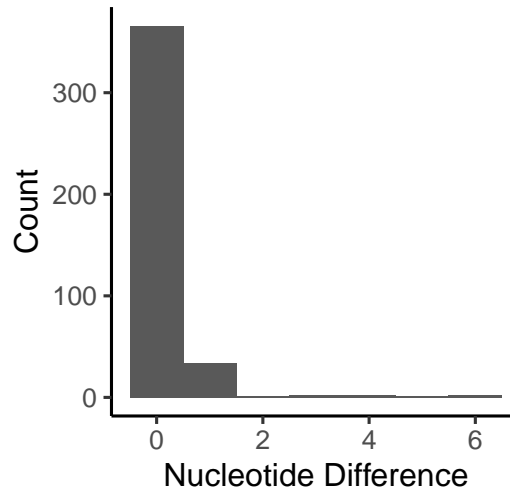
IGHV4–34*01

841 sequences assigned
744 (88.5%) exact matches, in which:
728 unique CDR3
6 unique J



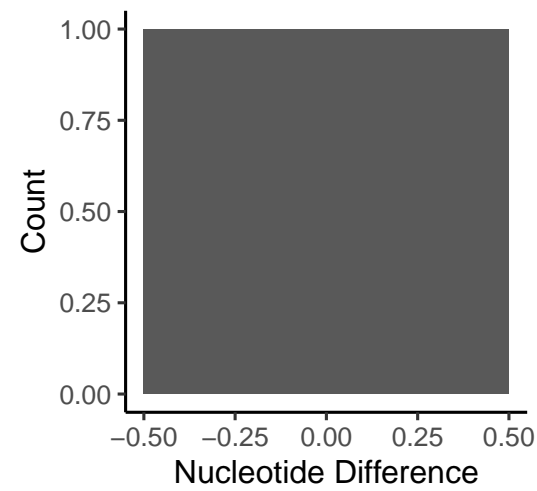
IGHV4–59*01

414 sequences assigned
366 (88.4%) exact matches, in which:
359 unique CDR3
6 unique J



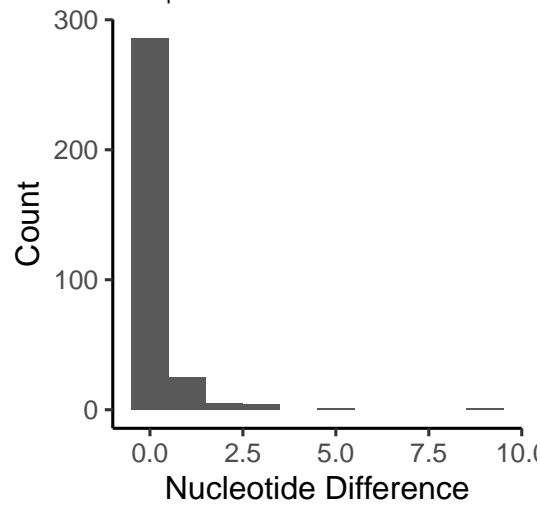
IGHV1/OR15–4*01

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



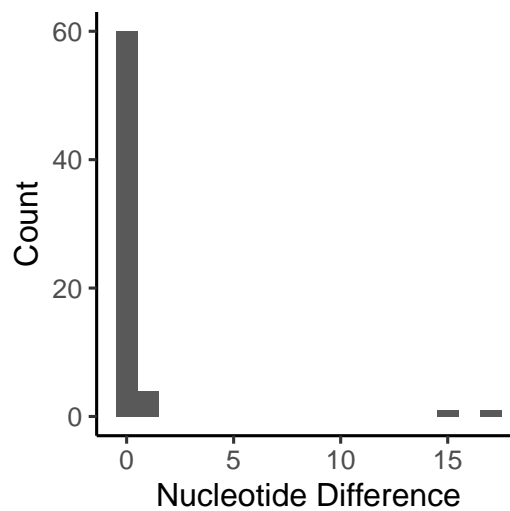
IGHV4–38–2*02_A70G

322 sequences assigned
286 (88.8%) exact matches, in which:
282 unique CDR3
6 unique J



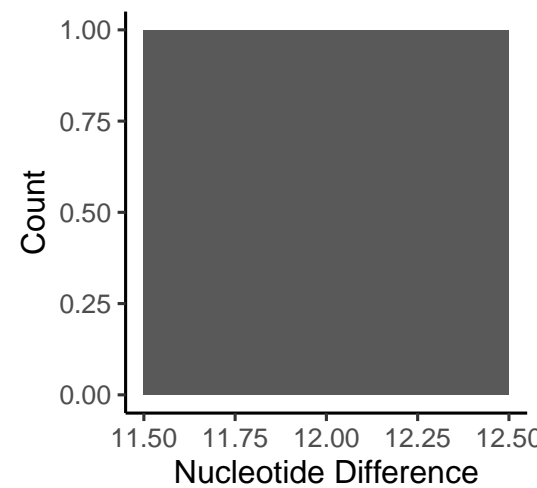
IGHV4–61*01

66 sequences assigned
60 (90.9%) exact matches, in which:
60 unique CDR3
5 unique J



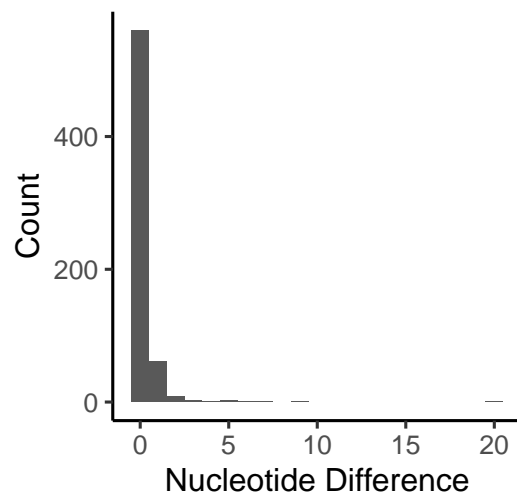
IGHV1/OR15–9*01

1 sequences assigned
No exact matches.



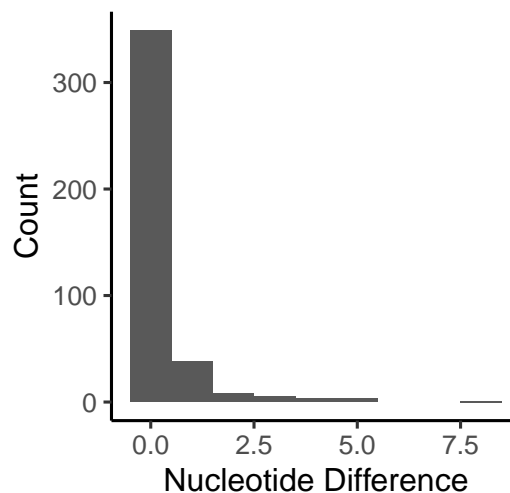
IGHV4–39*01

640 sequences assigned
560 (87.5%) exact matches, in which:
551 unique CDR3
6 unique J



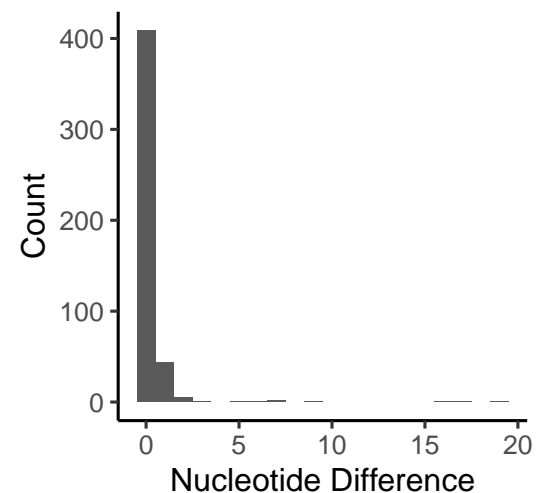
IGHV4–61*02

409 sequences assigned
349 (85.3%) exact matches, in which:
343 unique CDR3
6 unique J



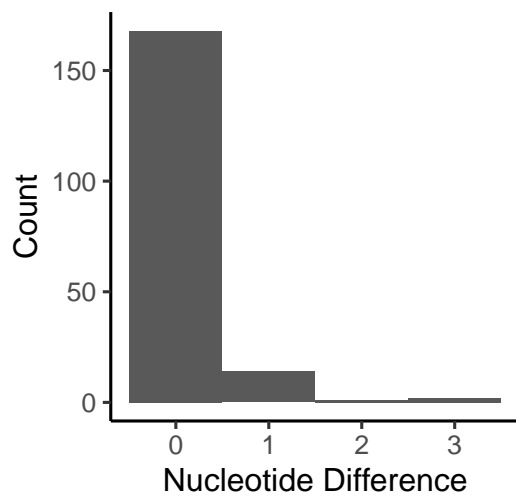
IGHV5–51*01

467 sequences assigned
409 (87.6%) exact matches, in which:
400 unique CDR3
6 unique J



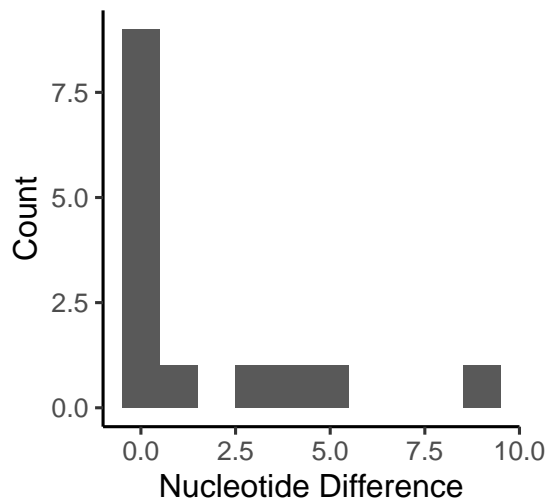
IGHV6-1*01

185 sequences assigned
168 (90.8%) exact matches, in which:
165 unique CDR3
6 unique J



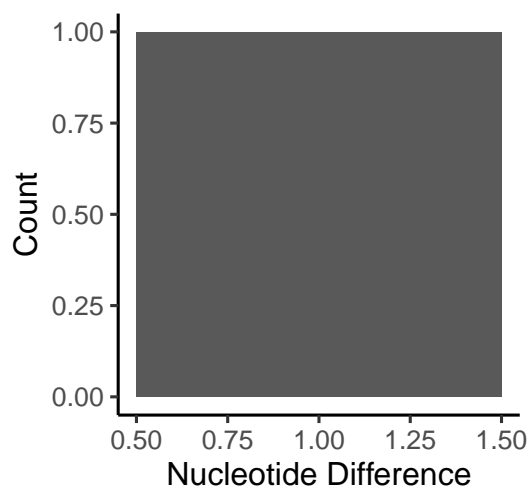
IGHV7-4-1*01

14 sequences assigned
9 (64.3%) exact matches, in which:
9 unique CDR3
3 unique J



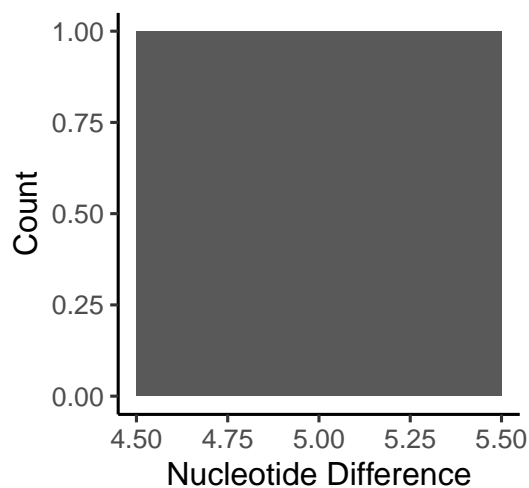
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



IGHV3/OR16-15*02

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.