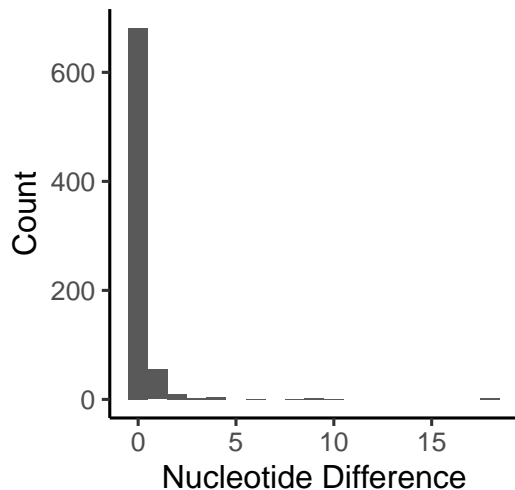


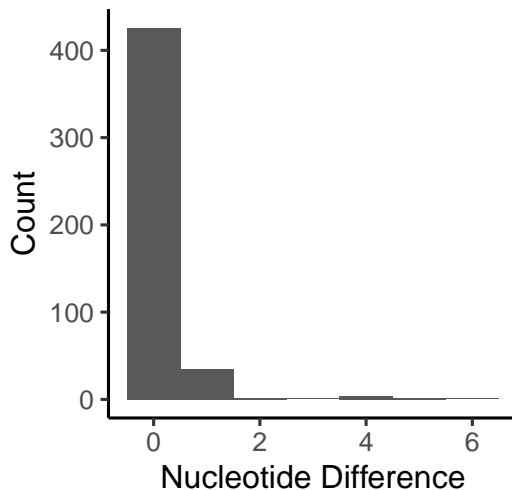
IGHV1-2*02

763 sequences assigned
682 (89.4%) exact matches, in which:
641 unique CDR3
6 unique J



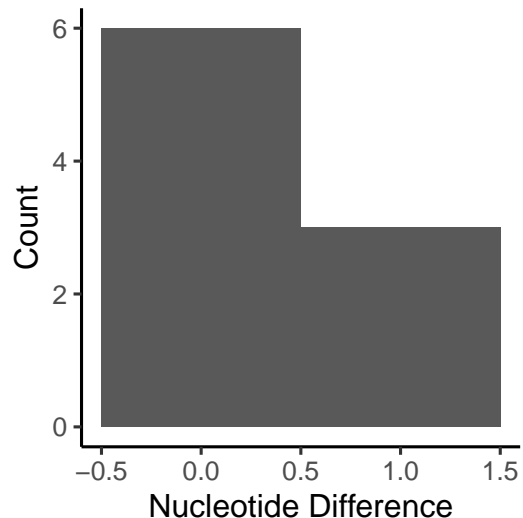
IGHV1-8*01

471 sequences assigned
426 (90.4%) exact matches, in which:
404 unique CDR3
6 unique J



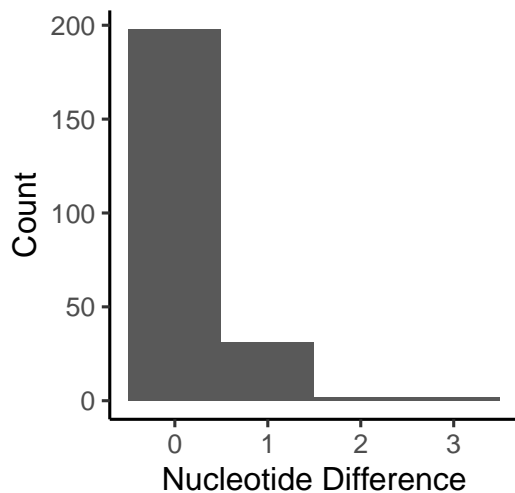
IGHV1-45*02

9 sequences assigned
6 (66.7%) exact matches, in which:
6 unique CDR3
3 unique J



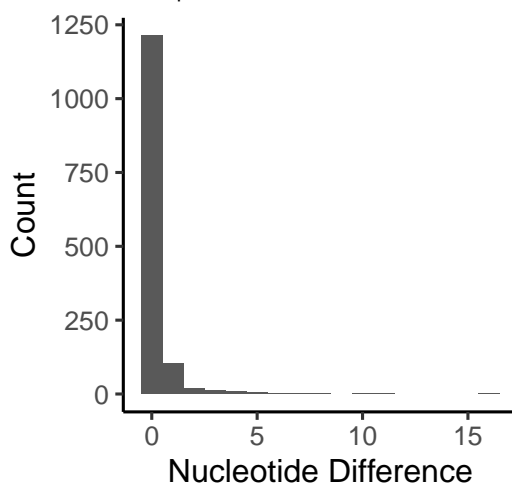
IGHV1-2*04

233 sequences assigned
198 (85%) exact matches, in which:
185 unique CDR3
6 unique J



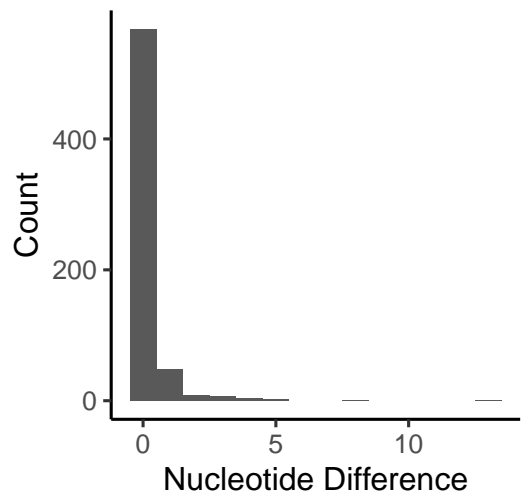
IGHV1-18*01

1374 sequences assigned
1213 (88.3%) exact matches, in which:
1149 unique CDR3
6 unique J



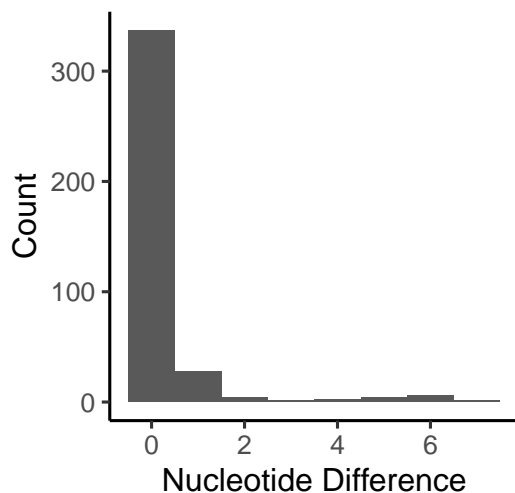
IGHV1-46*01

640 sequences assigned
568 (88.8%) exact matches, in which:
539 unique CDR3
6 unique J



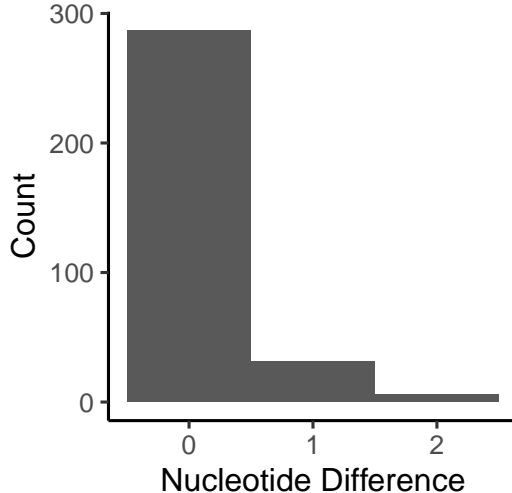
IGHV1-3*01

383 sequences assigned
337 (88%) exact matches, in which:
316 unique CDR3
6 unique J



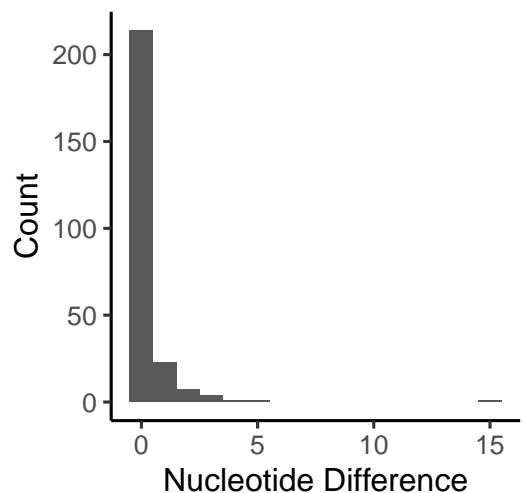
IGHV1-24*01

324 sequences assigned
287 (88.6%) exact matches, in which:
269 unique CDR3
6 unique J



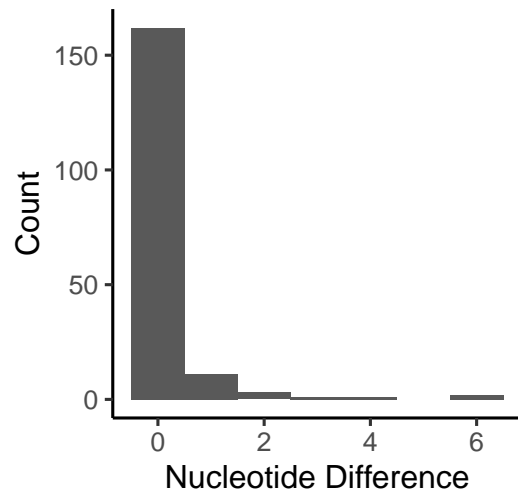
IGHV1-46*03

253 sequences assigned
214 (84.6%) exact matches, in which:
204 unique CDR3
6 unique J



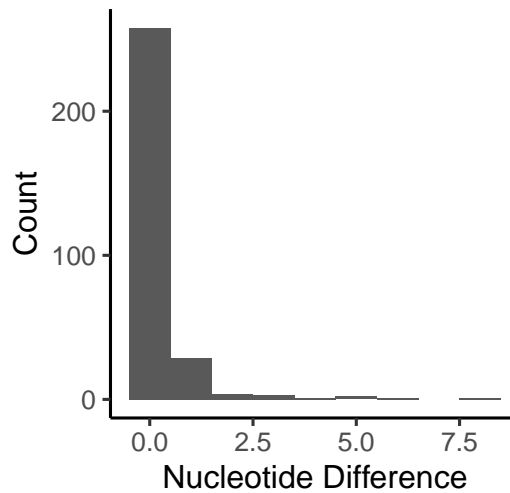
IGHV1–58*01

180 sequences assigned
162 (90%) exact matches, in which:
147 unique CDR3
5 unique J



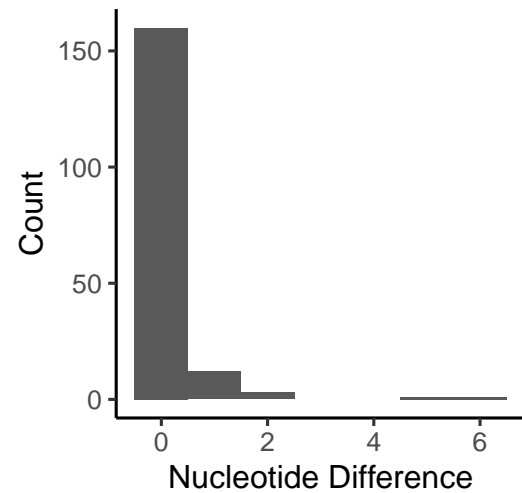
IGHV2–5*01

299 sequences assigned
258 (86.3%) exact matches, in which:
246 unique CDR3
6 unique J



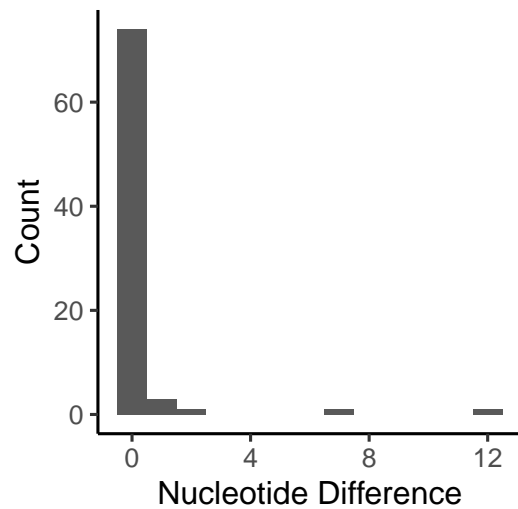
IGHV2–70*01

177 sequences assigned
160 (90.4%) exact matches, in which:
156 unique CDR3
5 unique J



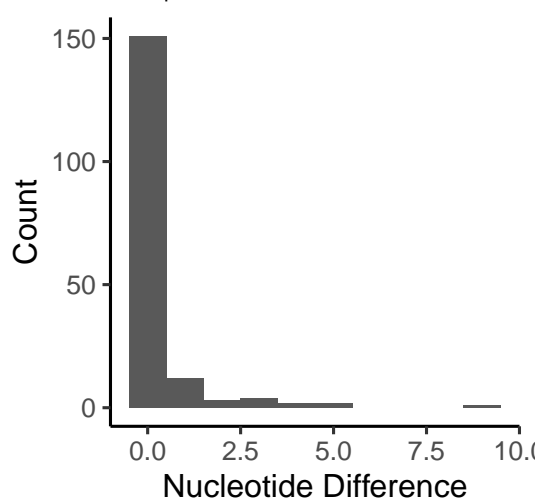
IGHV1–69–2*01

80 sequences assigned
74 (92.5%) exact matches, in which:
69 unique CDR3
5 unique J



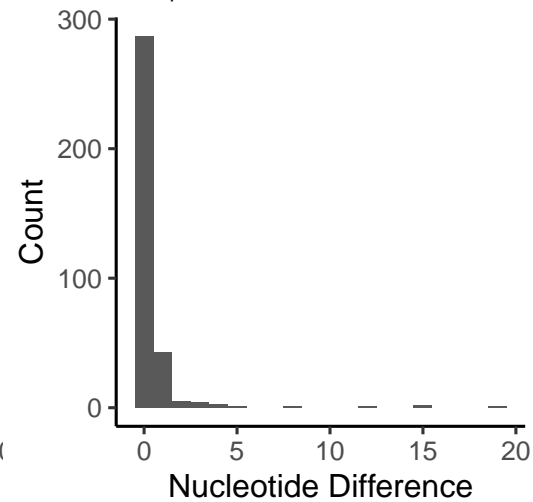
IGHV2–5*02

175 sequences assigned
151 (86.3%) exact matches, in which:
147 unique CDR3
5 unique J



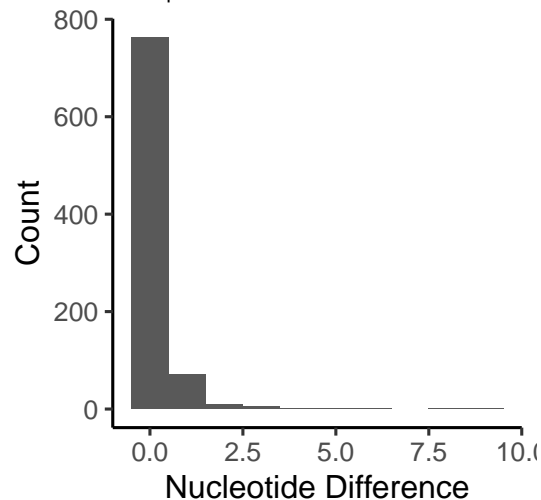
IGHV3–7*01

348 sequences assigned
287 (82.5%) exact matches, in which:
274 unique CDR3
6 unique J



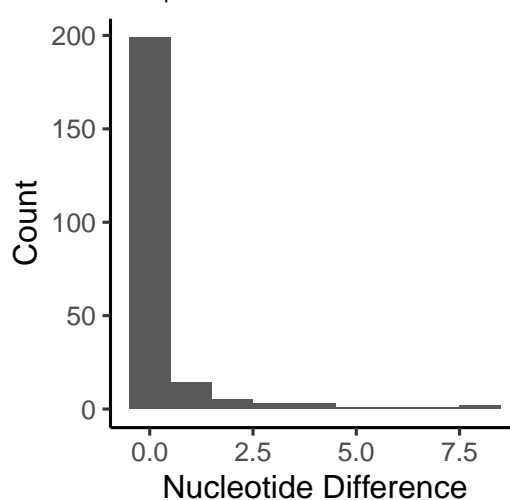
IGHV1–69*06

856 sequences assigned
763 (89.1%) exact matches, in which:
708 unique CDR3
6 unique J



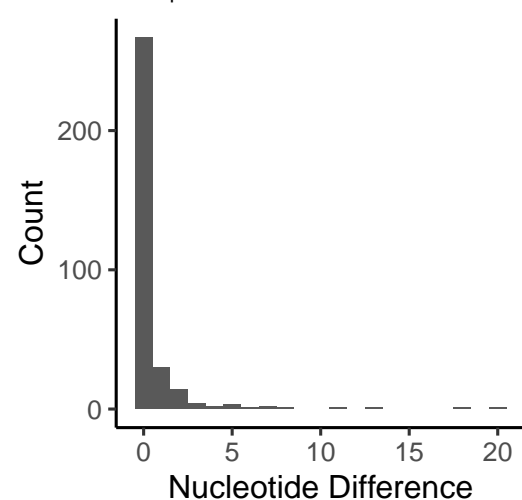
IGHV2–26*01

229 sequences assigned
199 (86.9%) exact matches, in which:
193 unique CDR3
5 unique J



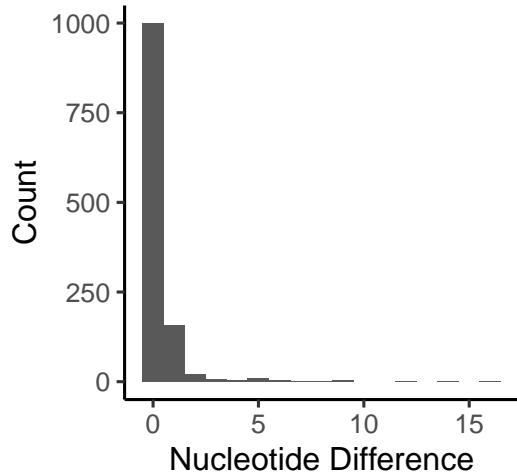
IGHV3–7*03

329 sequences assigned
267 (81.2%) exact matches, in which:
252 unique CDR3
6 unique J



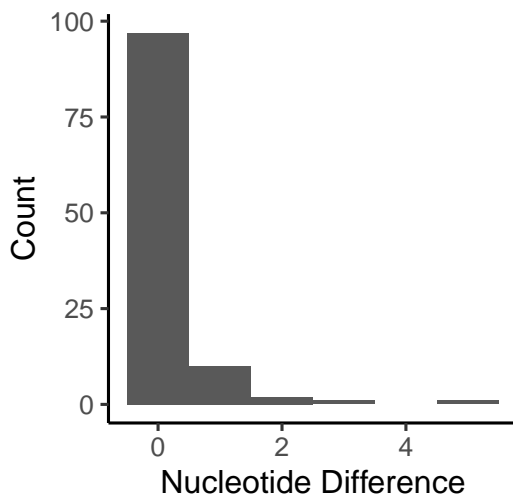
IGHV3-9*01

1214 sequences assigned
999 (82.3%) exact matches, in which:
915 unique CDR3
6 unique J



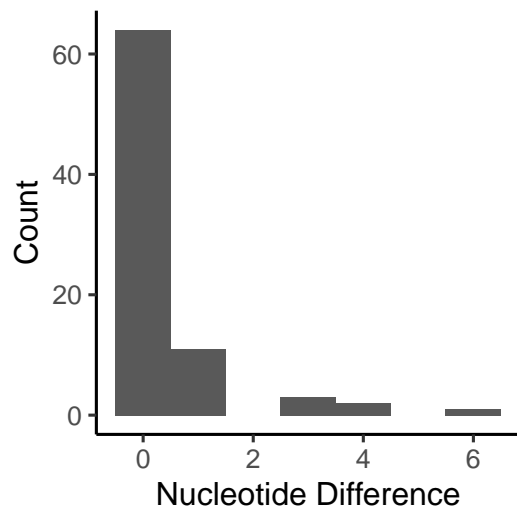
IGHV3-13*01

111 sequences assigned
97 (87.4%) exact matches, in which:
91 unique CDR3
5 unique J



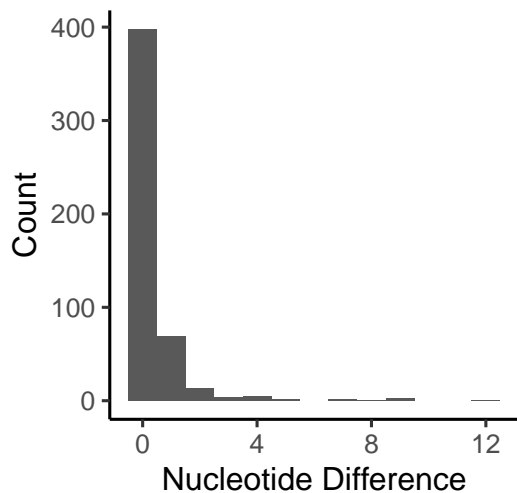
IGHV3-20*01

81 sequences assigned
64 (79%) exact matches, in which:
59 unique CDR3
4 unique J



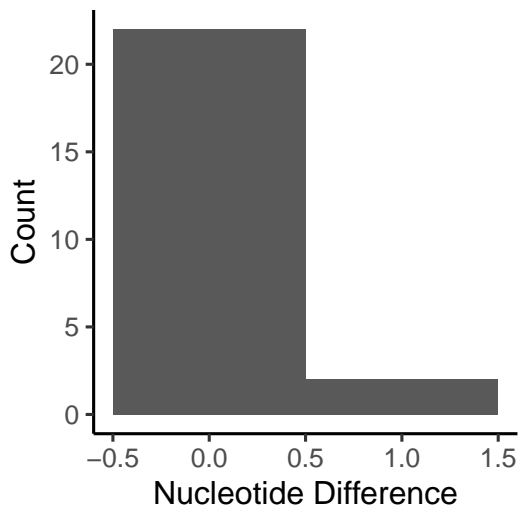
IGHV3-11*01

498 sequences assigned
398 (79.9%) exact matches, in which:
376 unique CDR3
6 unique J



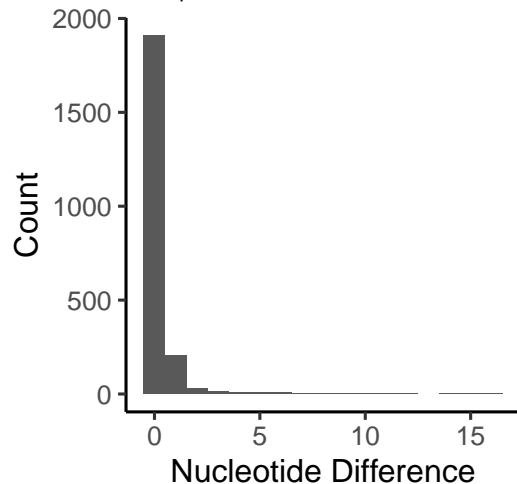
IGHV3-13*05

24 sequences assigned
22 (91.7%) exact matches, in which:
19 unique CDR3
5 unique J



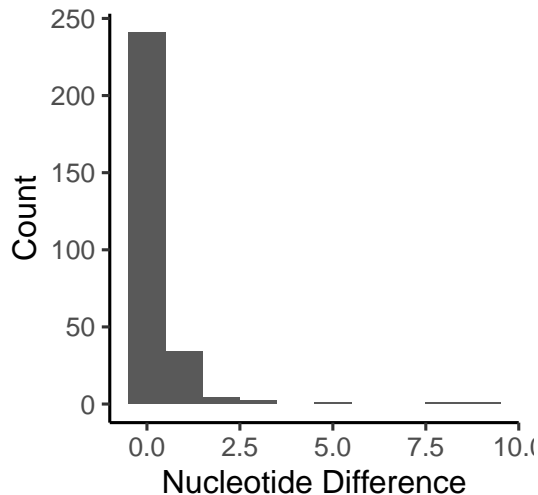
IGHV3-21*01

2193 sequences assigned
1908 (87%) exact matches, in which:
1760 unique CDR3
6 unique J



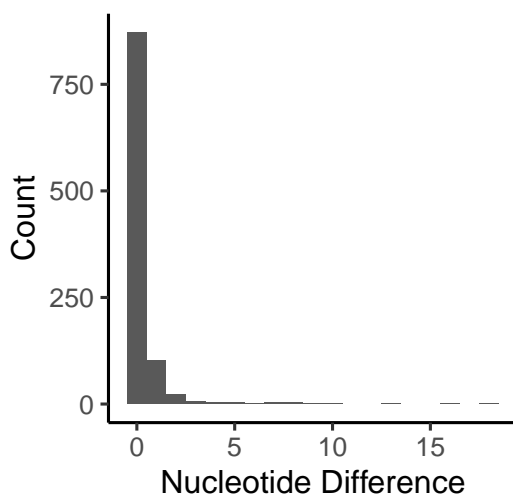
IGHV3-11*06

285 sequences assigned
241 (84.6%) exact matches, in which:
228 unique CDR3
6 unique J



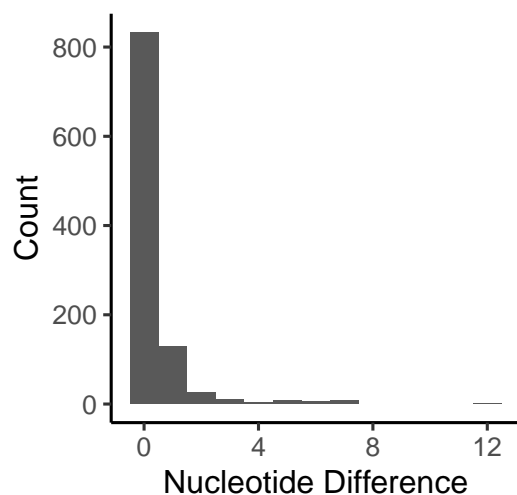
IGHV3-15*01

1024 sequences assigned
872 (85.2%) exact matches, in which:
833 unique CDR3
6 unique J



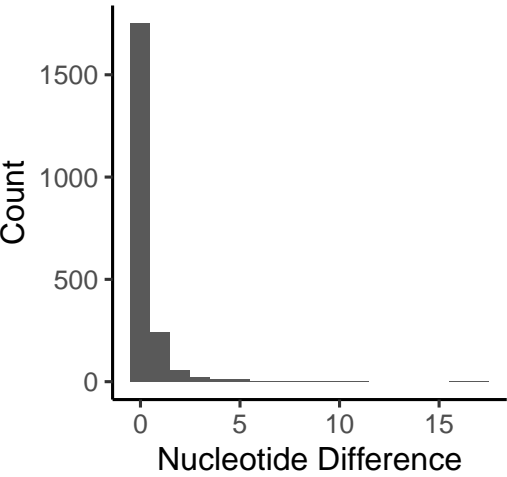
IGHV3-30*03

1023 sequences assigned
833 (81.4%) exact matches, in which:
766 unique CDR3
6 unique J



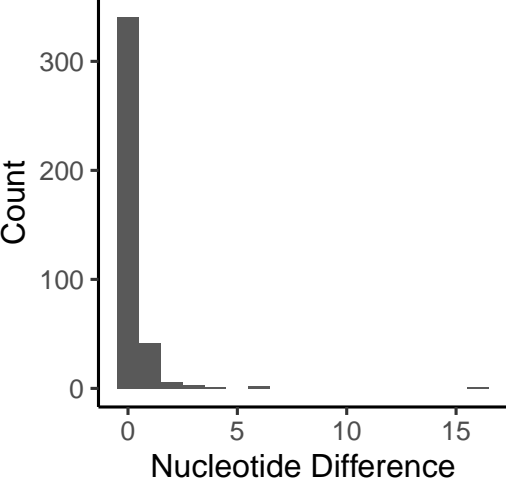
IGHV3-33*01

2113 sequences assigned
1751 (82.9%) exact matches, in which:
1623 unique CDR3
6 unique J



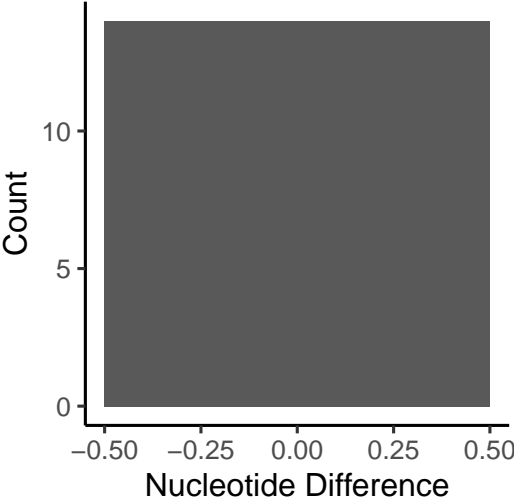
IGHV3-49*05

396 sequences assigned
341 (86.1%) exact matches, in which:
326 unique CDR3
6 unique J



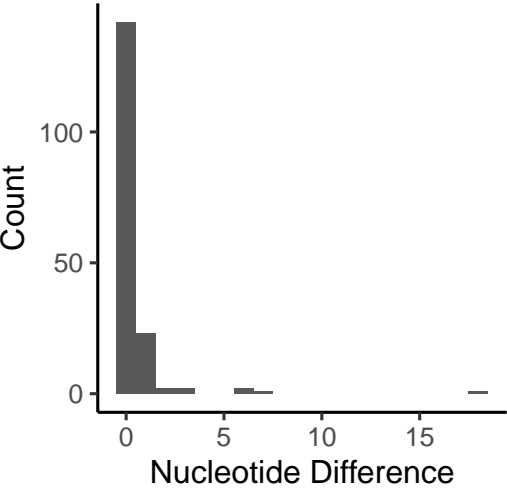
IGHV3-64*02

14 sequences assigned
14 (100%) exact matches, in which:
14 unique CDR3
4 unique J



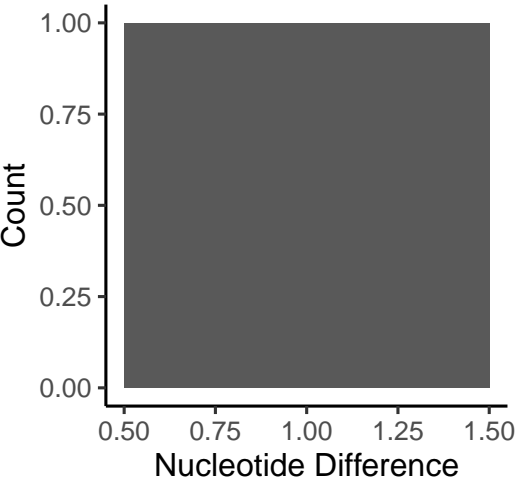
IGHV3-43*01

173 sequences assigned
142 (82.1%) exact matches, in which:
132 unique CDR3
6 unique J



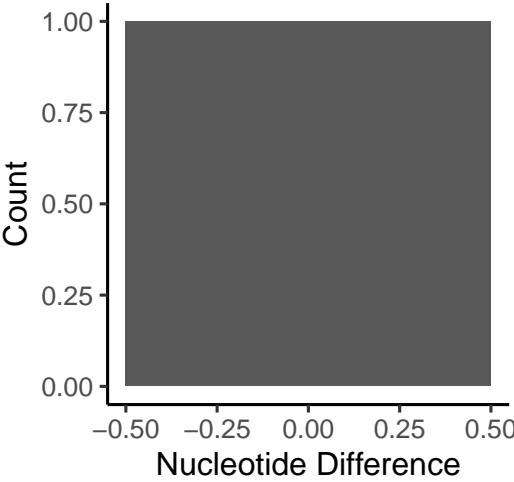
IGHV3-52*01

1 sequences assigned
No exact matches.



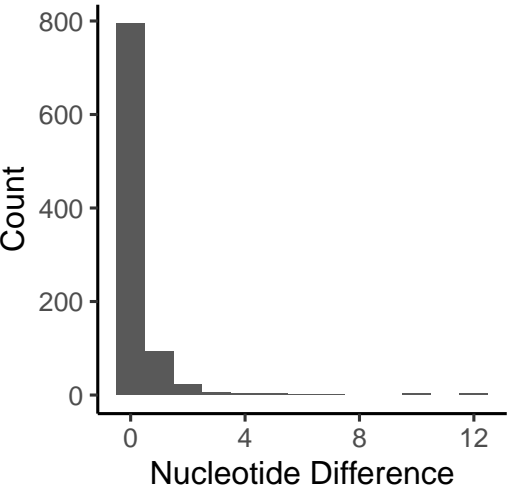
IGHV3-66*03

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



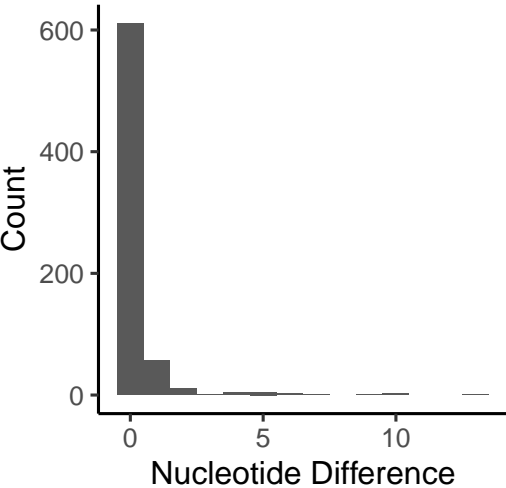
IGHV3-48*02

933 sequences assigned
795 (85.2%) exact matches, in which:
736 unique CDR3
6 unique J



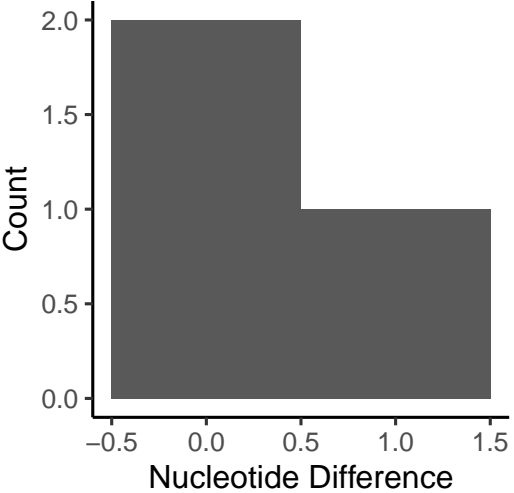
IGHV3-53*01

695 sequences assigned
611 (87.9%) exact matches, in which:
581 unique CDR3
6 unique J



IGHV3-66*04

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



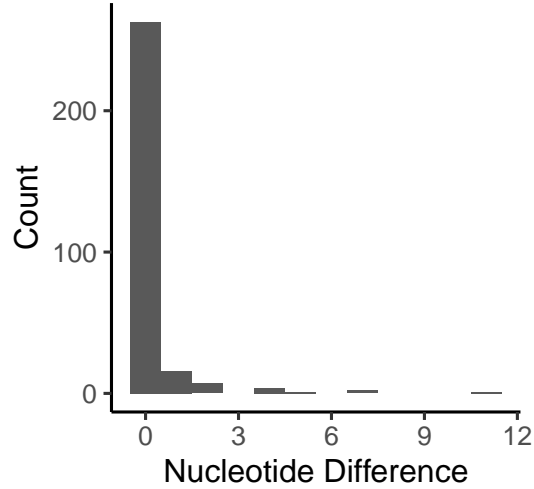
IGHV3-69-1*01

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



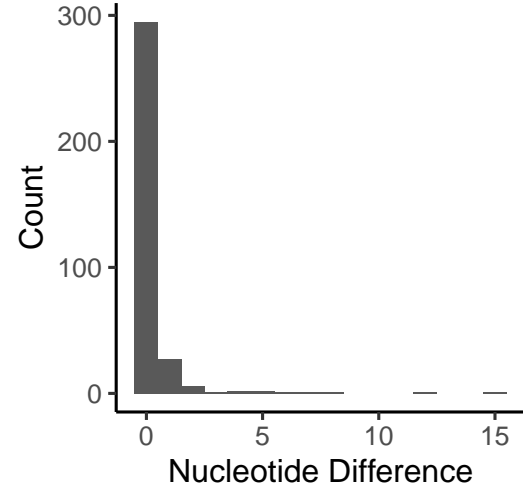
IGHV3-74*01

296 sequences assigned
263 (88.9%) exact matches, in which:
255 unique CDR3
6 unique J



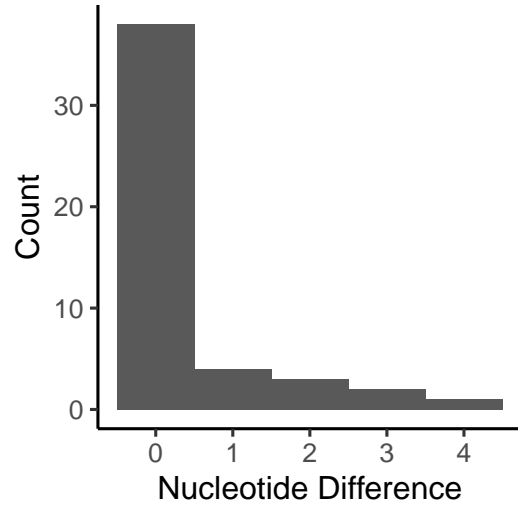
IGHV4-4*07

338 sequences assigned
295 (87.3%) exact matches, in which:
282 unique CDR3
6 unique J



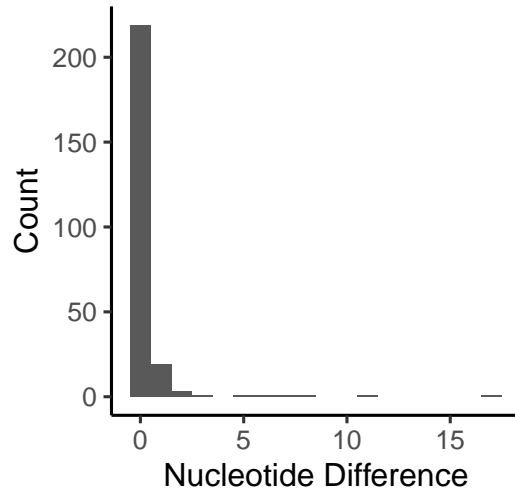
IGHV3-72*01

48 sequences assigned
38 (79.2%) exact matches, in which:
37 unique CDR3
5 unique J



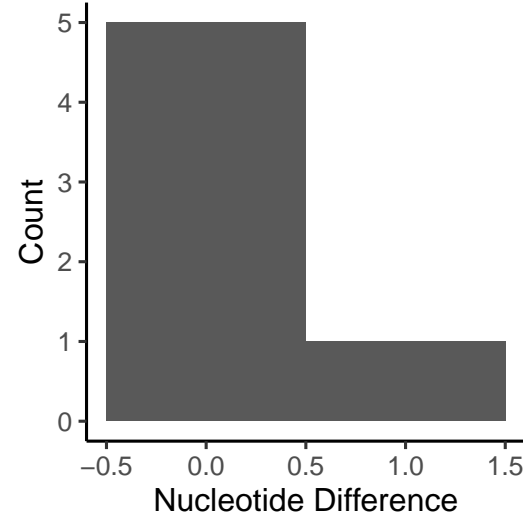
IGHV3-64D*06

248 sequences assigned
219 (88.3%) exact matches, in which:
203 unique CDR3
6 unique J



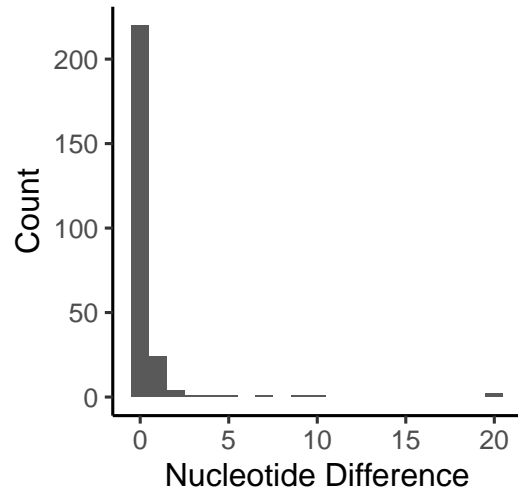
IGHV4-28*01

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



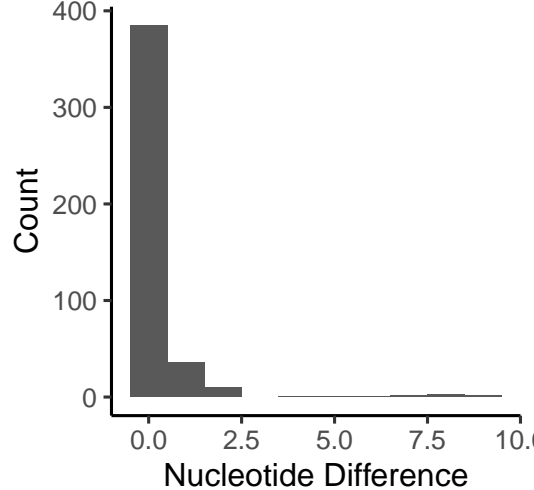
IGHV3-73*02

257 sequences assigned
220 (85.6%) exact matches, in which:
202 unique CDR3
6 unique J



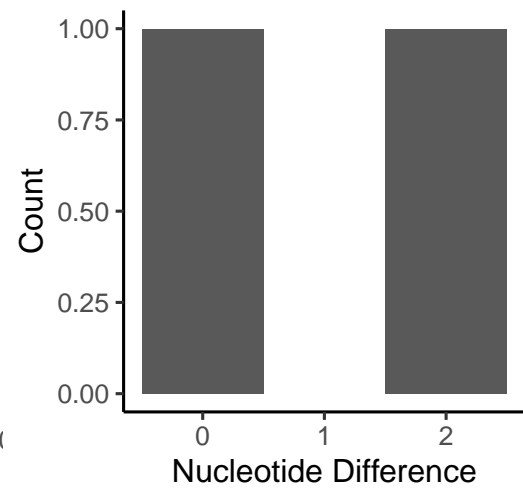
IGHV4-4*02

442 sequences assigned
385 (87.1%) exact matches, in which:
374 unique CDR3
6 unique J



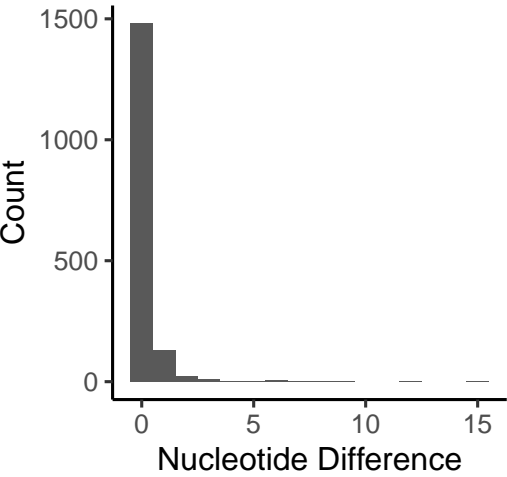
IGHV4-28*03

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



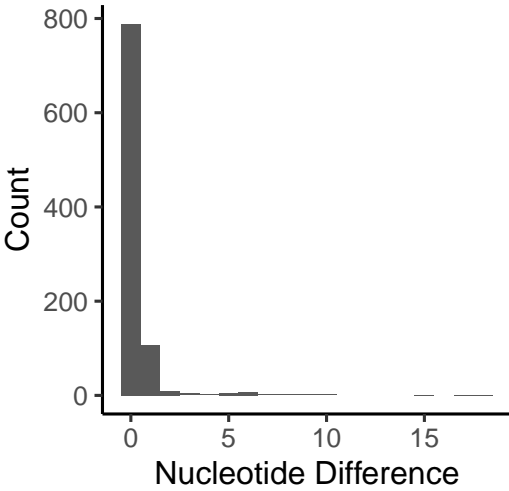
IGHV4-31*03

1669 sequences assigned
1481 (88.7%) exact matches, in which:
1408 unique CDR3
6 unique J



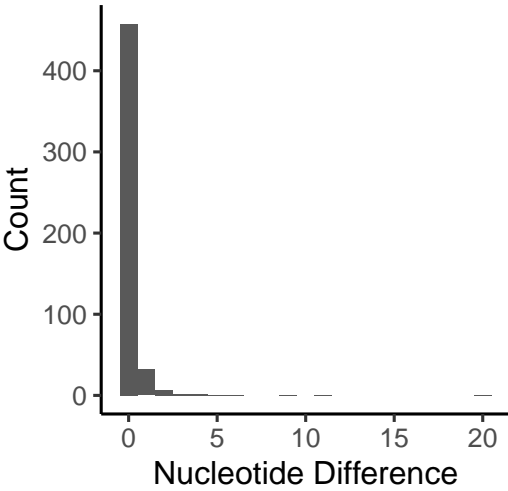
IGHV4-59*01

939 sequences assigned
789 (84%) exact matches, in which:
758 unique CDR3
6 unique J



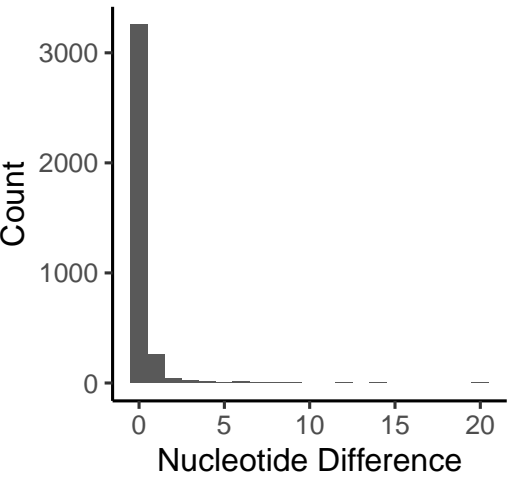
IGHV5-10-1*03

508 sequences assigned
458 (90.2%) exact matches, in which:
438 unique CDR3
6 unique J



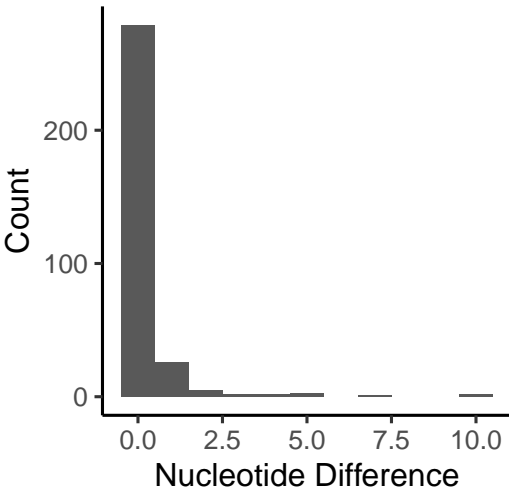
IGHV4-34*01

3618 sequences assigned
3255 (90%) exact matches, in which:
3033 unique CDR3
6 unique J



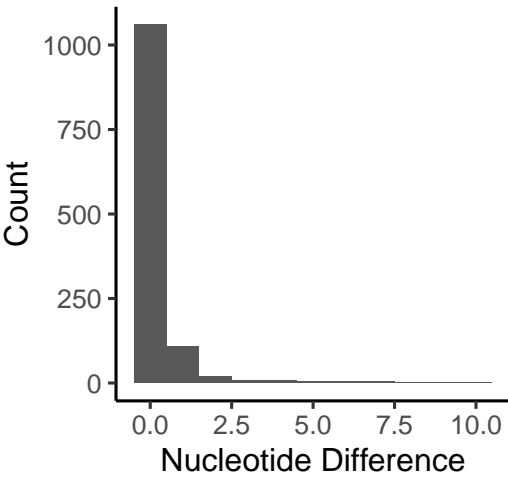
IGHV4-61*01

325 sequences assigned
279 (85.8%) exact matches, in which:
273 unique CDR3
6 unique J



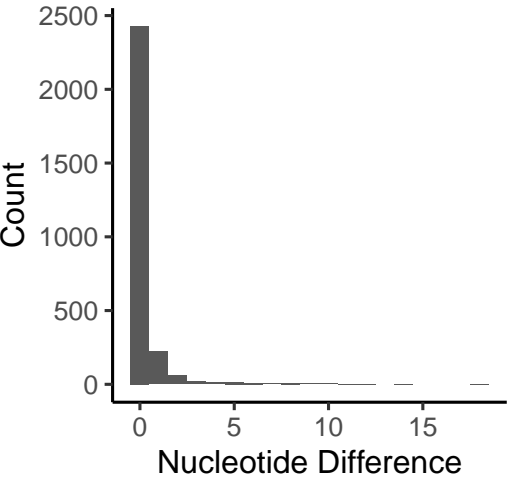
IGHV5-51*01

1218 sequences assigned
1060 (87%) exact matches, in which:
1004 unique CDR3
6 unique J



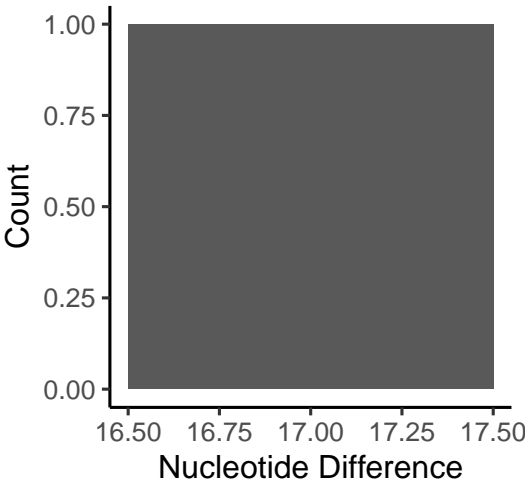
IGHV4-39*01

2805 sequences assigned
2429 (86.6%) exact matches, in which:
2229 unique CDR3
6 unique J



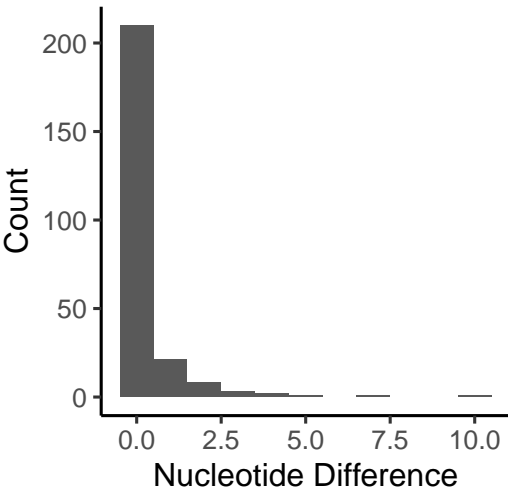
IGHV1/OR15-1*03

1 sequences assigned
No exact matches.



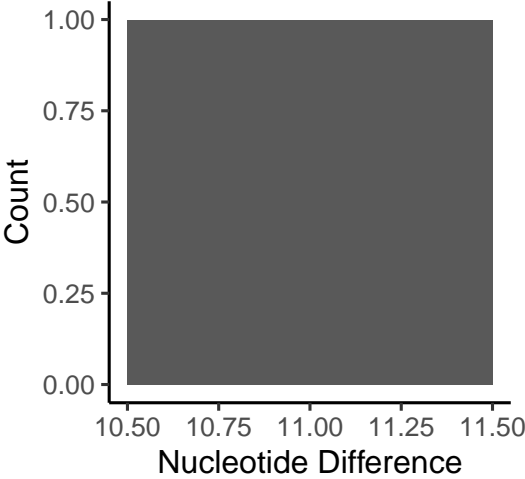
IGHV6-1*01

247 sequences assigned
210 (85%) exact matches, in which:
196 unique CDR3
6 unique J



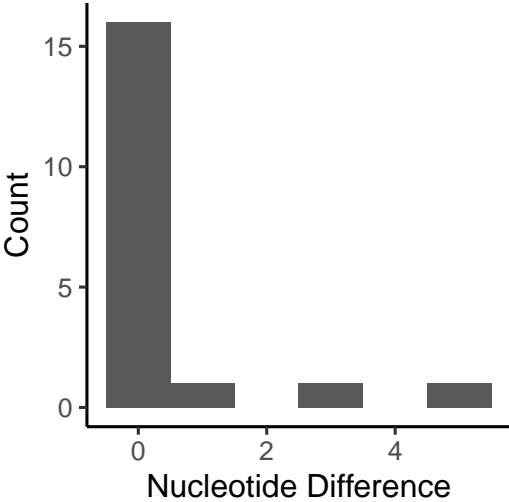
IGHV3/OR16-12*01

1 sequences assigned
No exact matches.



IGHV7-4-1*01

19 sequences assigned
16 (84.2%) exact matches, in which:
15 unique CDR3
3 unique J





Warning – no inferred sequences found.

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