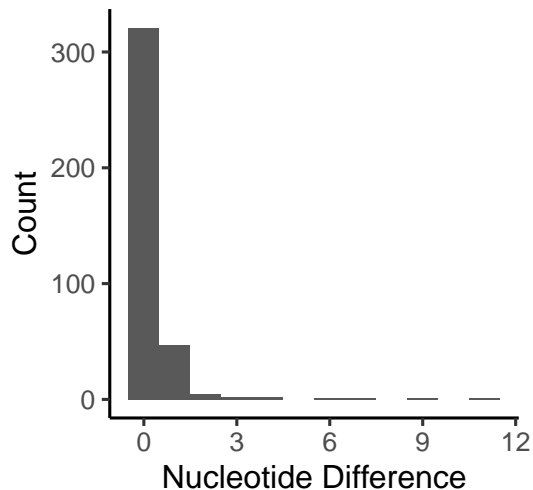


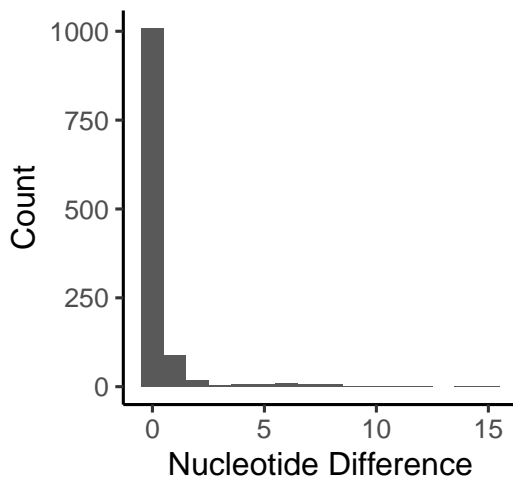
IGHV1-2*04

381 sequences assigned
321 (84.3%) exact matches, in which:
282 unique CDR3
7 unique J



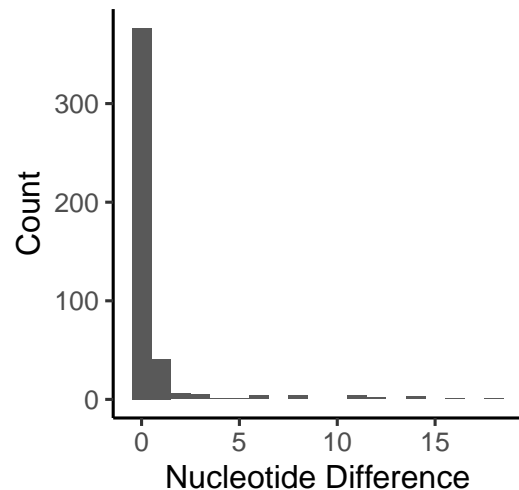
IGHV1-18*01

1163 sequences assigned
1008 (86.7%) exact matches, in which:
931 unique CDR3
7 unique J



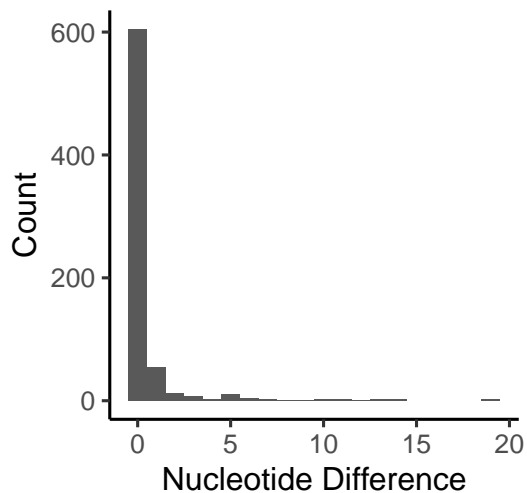
IGHV1-46*01

450 sequences assigned
377 (83.8%) exact matches, in which:
341 unique CDR3
7 unique J



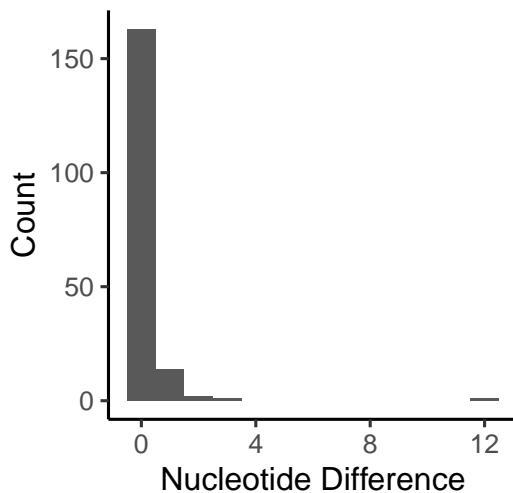
IGHV1-3*01

719 sequences assigned
605 (84.1%) exact matches, in which:
554 unique CDR3
7 unique J



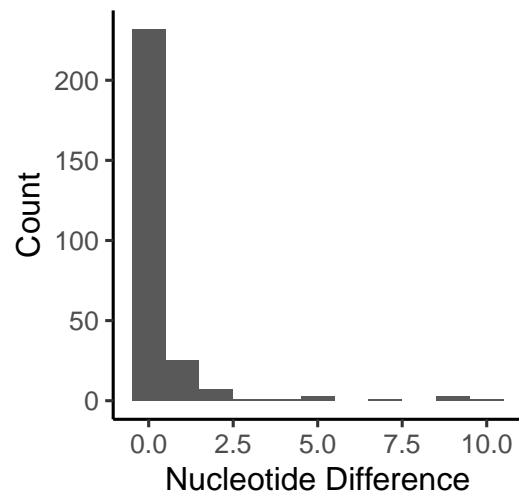
IGHV1-24*01

182 sequences assigned
163 (89.6%) exact matches, in which:
154 unique CDR3
7 unique J



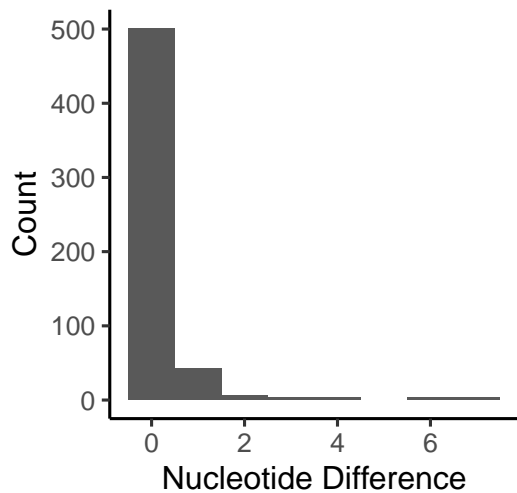
IGHV1-46*03

274 sequences assigned
232 (84.7%) exact matches, in which:
208 unique CDR3
6 unique J



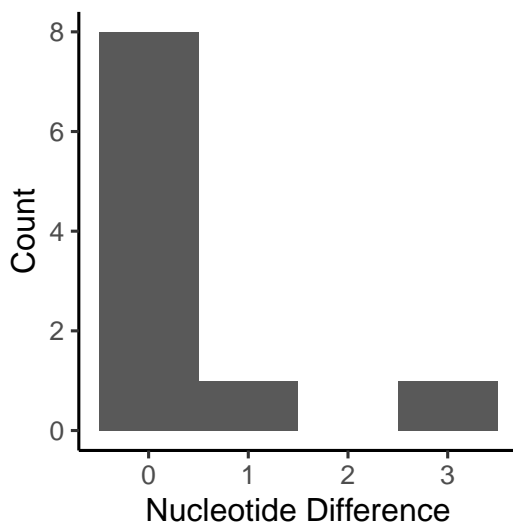
IGHV1-8*01

561 sequences assigned
501 (89.3%) exact matches, in which:
460 unique CDR3
7 unique J



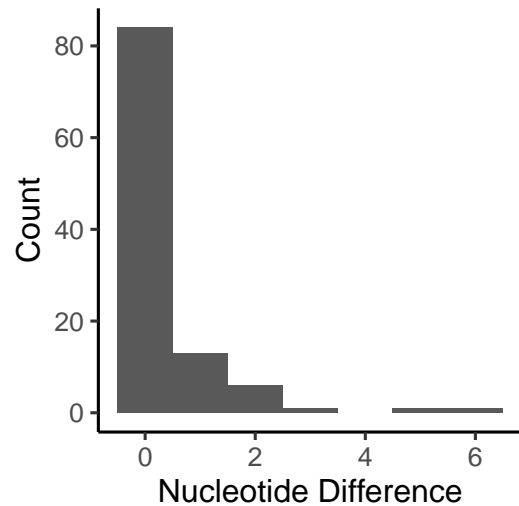
IGHV1-45*02

10 sequences assigned
8 (80%) exact matches, in which:
7 unique CDR3
2 unique J



IGHV1-58*01

115 sequences assigned
84 (73%) exact matches, in which:
79 unique CDR3
7 unique J



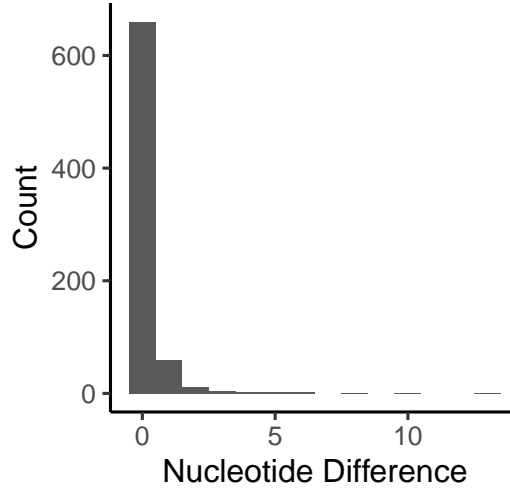
IGHV1-68*02

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



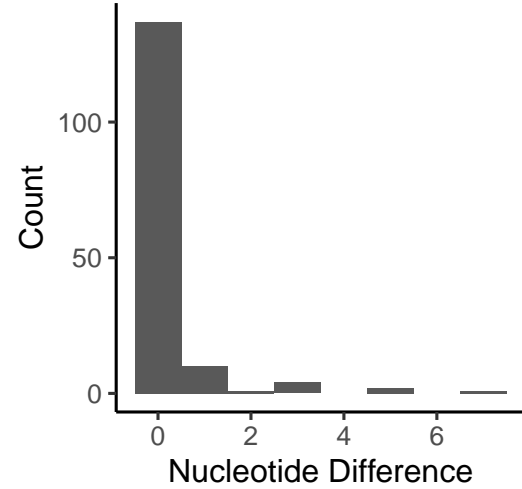
IGHV1-69*09

747 sequences assigned
660 (88.4%) exact matches, in which:
597 unique CDR3
6 unique J



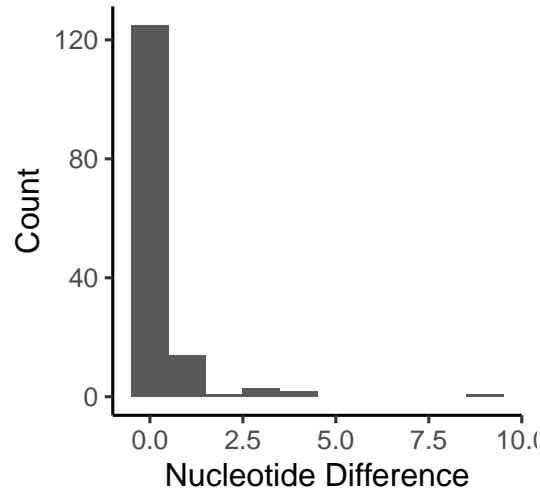
IGHV2-70*01

155 sequences assigned
137 (88.4%) exact matches, in which:
131 unique CDR3
6 unique J



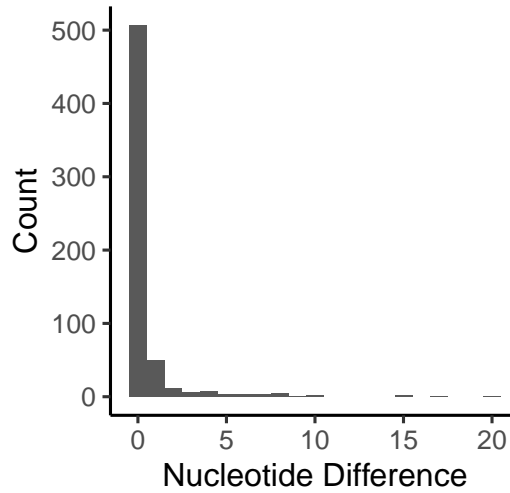
IGHV1-69-2*01

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



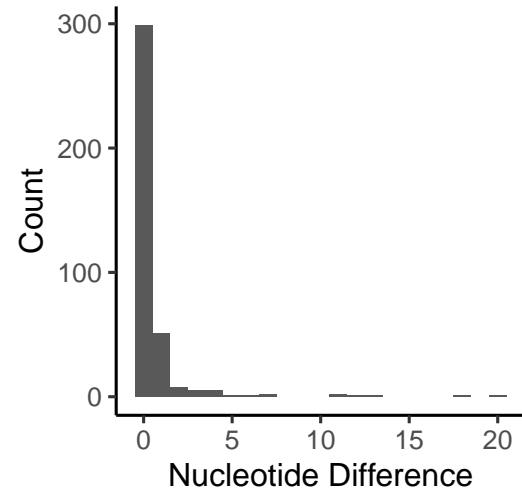
IGHV2-5*02

605 sequences assigned
507 (83.8%) exact matches, in which:
472 unique CDR3
7 unique J



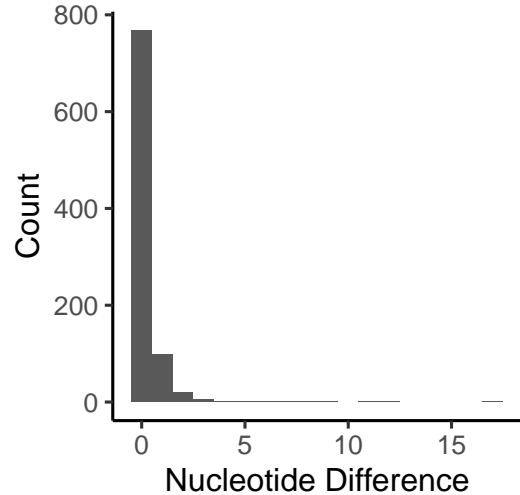
IGHV3-7*01

388 sequences assigned
299 (77.1%) exact matches, in which:
283 unique CDR3
7 unique J



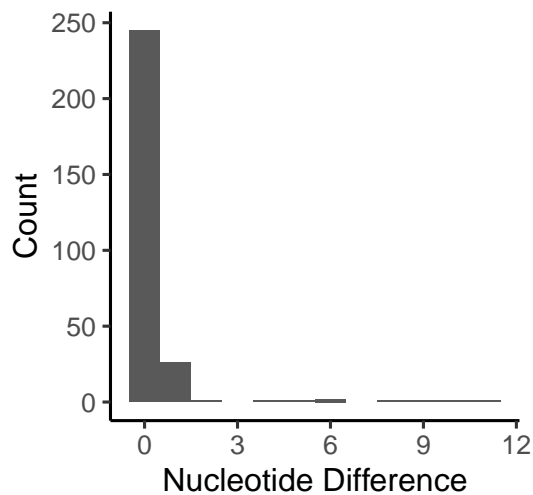
IGHV1-69*06

903 sequences assigned
768 (85%) exact matches, in which:
689 unique CDR3
7 unique J



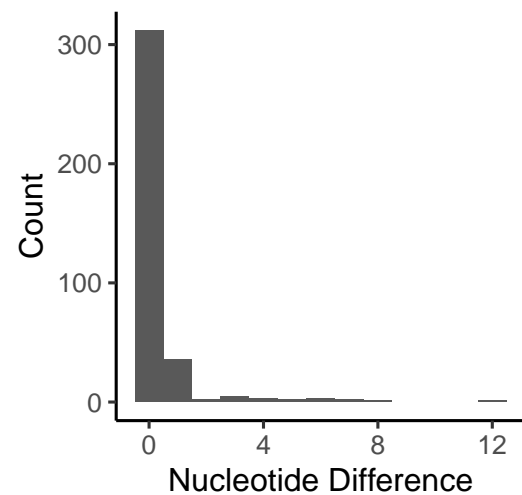
IGHV2-26*01

280 sequences assigned
245 (87.5%) exact matches, in which:
228 unique CDR3
6 unique J



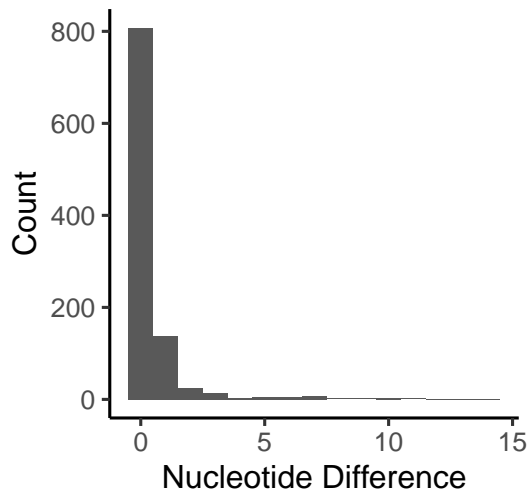
IGHV3-7*03

368 sequences assigned
312 (84.8%) exact matches, in which:
284 unique CDR3
7 unique J



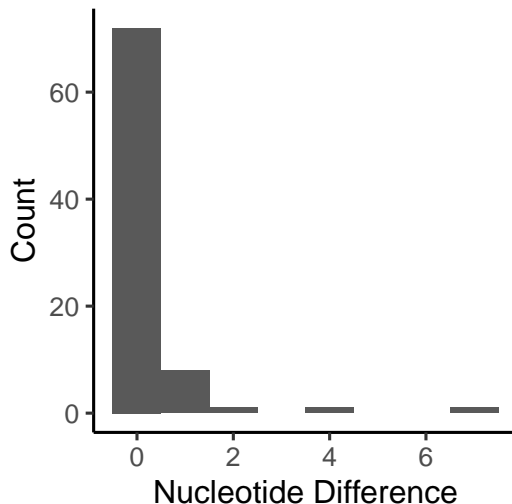
IGHV3-9*01

1019 sequences assigned
808 (79.3%) exact matches, in which:
722 unique CDR3
6 unique J



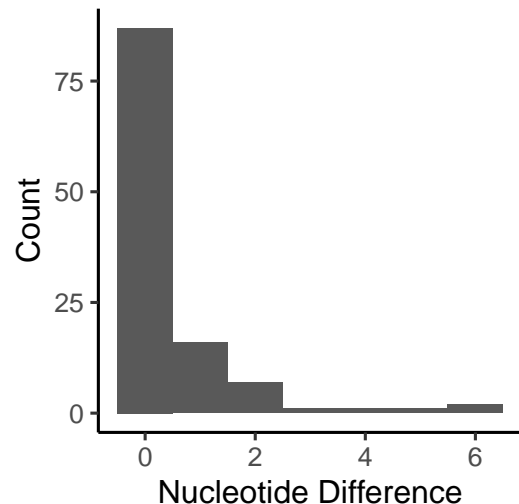
IGHV3-13*01

84 sequences assigned
72 (85.7%) exact matches, in which:
70 unique CDR3
5 unique J



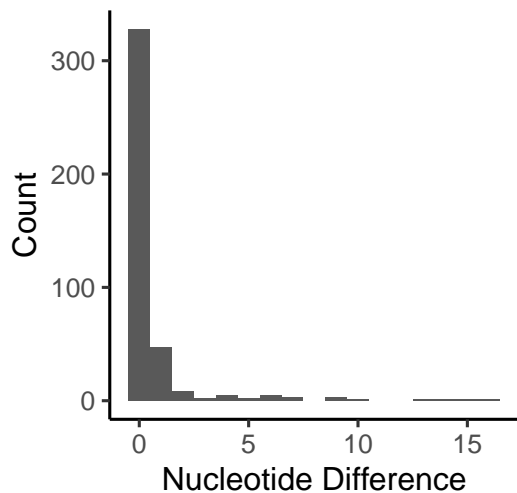
IGHV3-20*01

115 sequences assigned
87 (75.7%) exact matches, in which:
76 unique CDR3
6 unique J



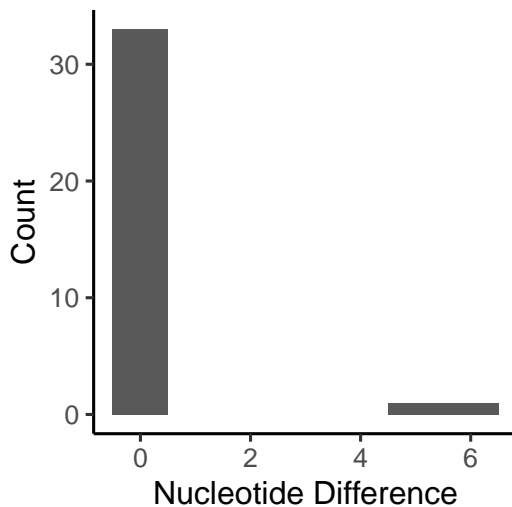
IGHV3-11*01

408 sequences assigned
328 (80.4%) exact matches, in which:
304 unique CDR3
6 unique J



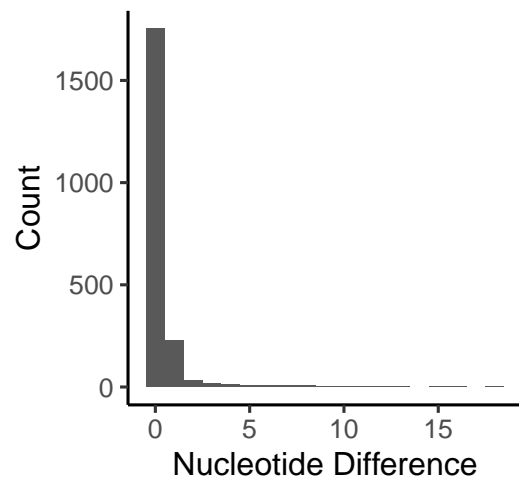
IGHV3-13*05

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



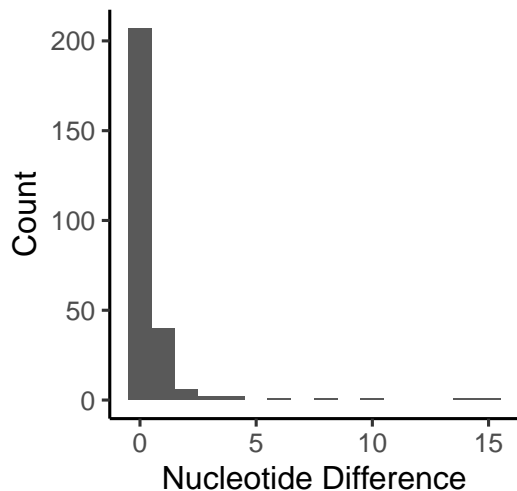
IGHV3-21*01

2088 sequences assigned
1753 (84%) exact matches, in which:
1574 unique CDR3
7 unique J



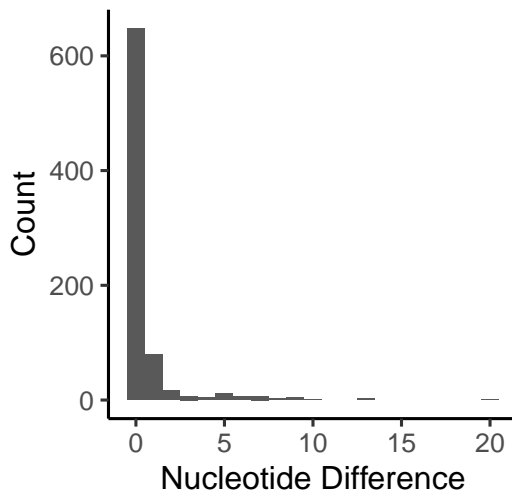
IGHV3-11*06

262 sequences assigned
207 (79%) exact matches, in which:
187 unique CDR3
7 unique J



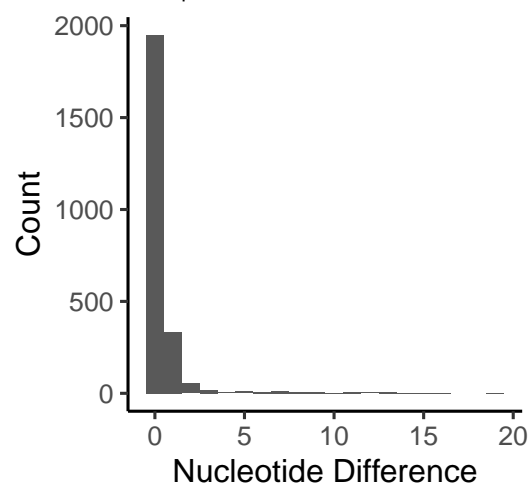
IGHV3-15*01

792 sequences assigned
648 (81.8%) exact matches, in which:
576 unique CDR3
7 unique J



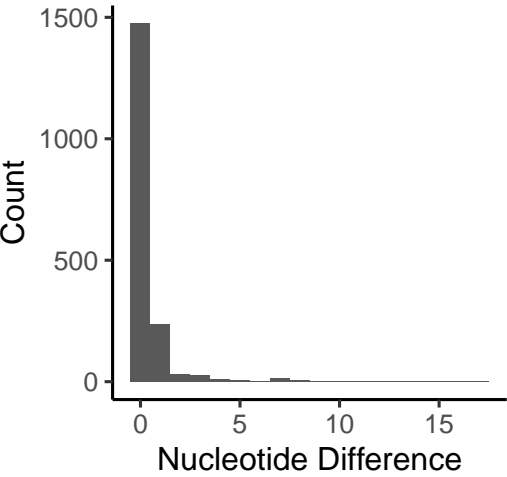
IGHV3-30-3*01

2431 sequences assigned
1949 (80.2%) exact matches, in which:
1739 unique CDR3
7 unique J



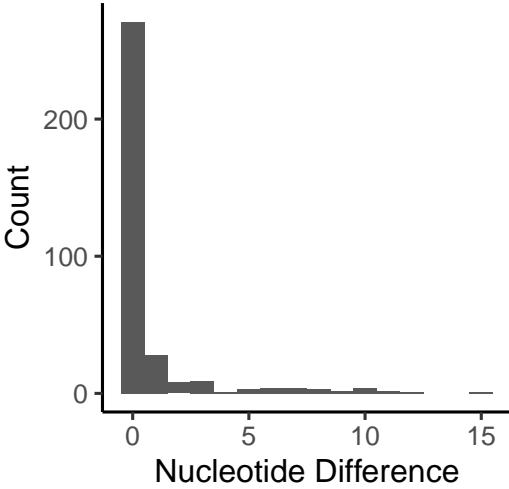
IGHV3-33*01

1842 sequences assigned
1475 (80.1%) exact matches, in which:
1301 unique CDR3
7 unique J



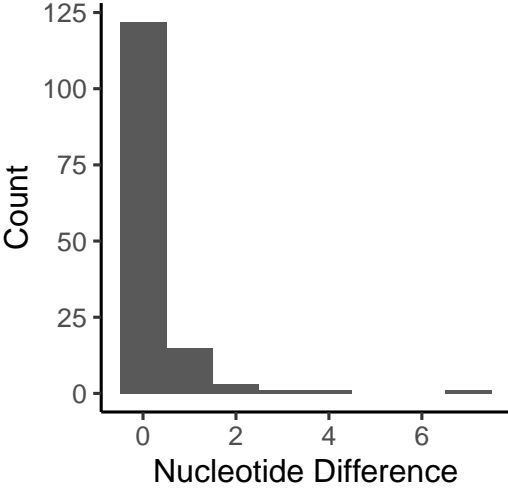
IGHV3-48*01

341 sequences assigned
271 (79.5%) exact matches, in which:
258 unique CDR3
7 unique J



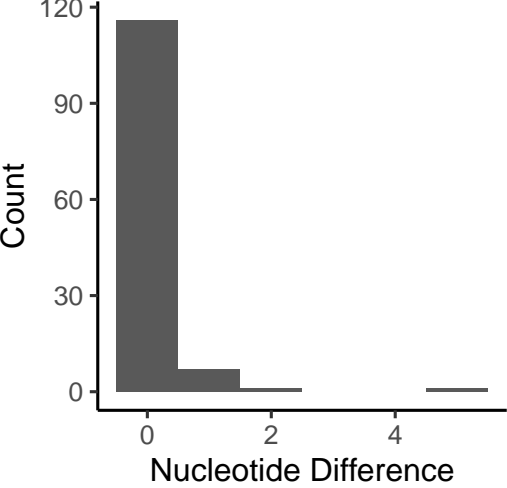
IGHV3-49*05

143 sequences assigned
122 (85.3%) exact matches, in which:
113 unique CDR3
5 unique J



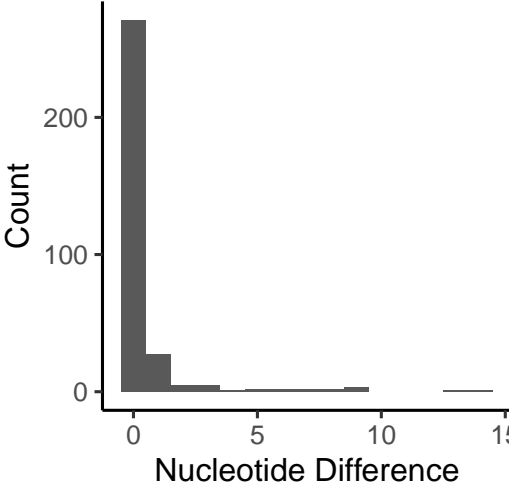
IGHV3-43*01

125 sequences assigned
116 (92.8%) exact matches, in which:
102 unique CDR3
7 unique J



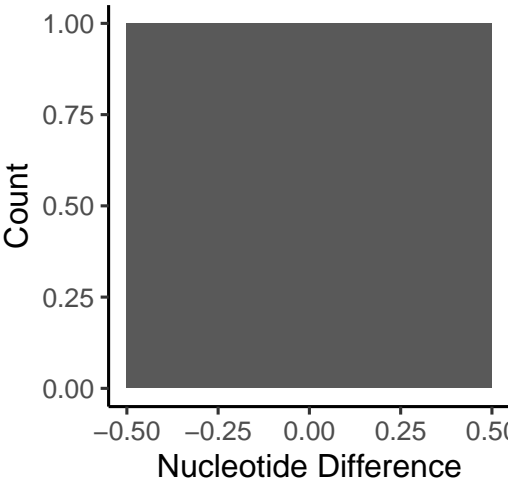
IGHV3-48*02

322 sequences assigned
271 (84.2%) exact matches, in which:
251 unique CDR3
7 unique J



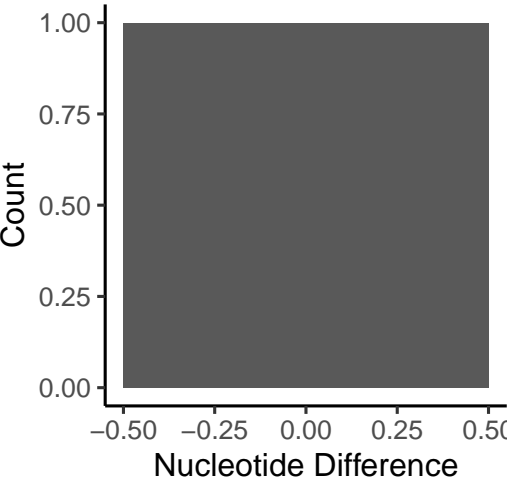
IGHV3-52*01

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



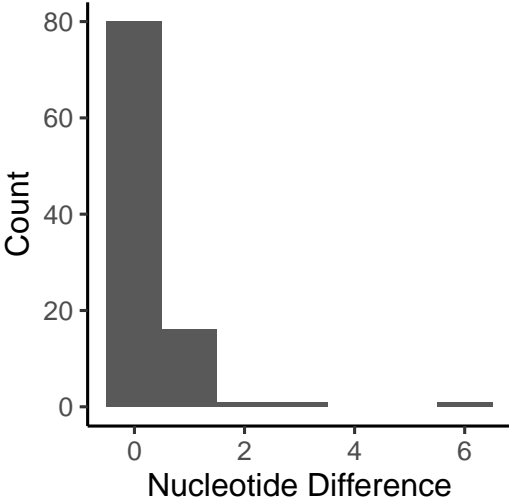
IGHV3-47*02

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



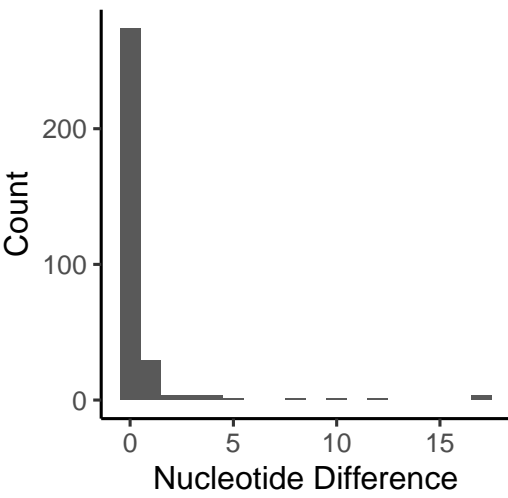
IGHV3-49*03

99 sequences assigned
80 (80.8%) exact matches, in which:
75 unique CDR3
6 unique J



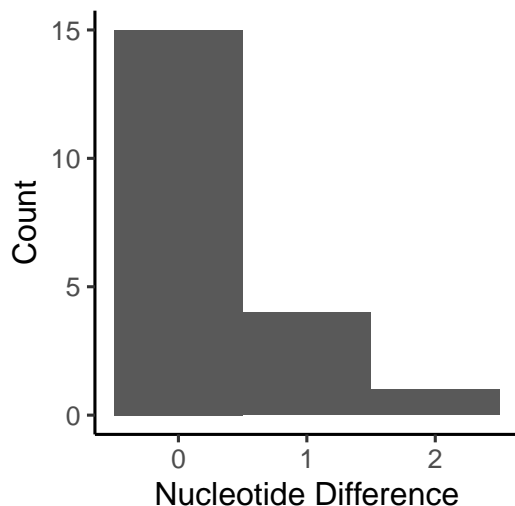
IGHV3-53*01

319 sequences assigned
274 (85.9%) exact matches, in which:
251 unique CDR3
7 unique J



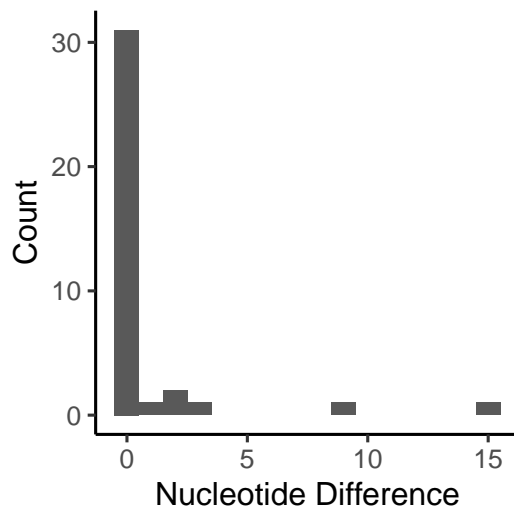
IGHV3-64*02

20 sequences assigned
15 (75%) exact matches, in which:
14 unique CDR3
4 unique J



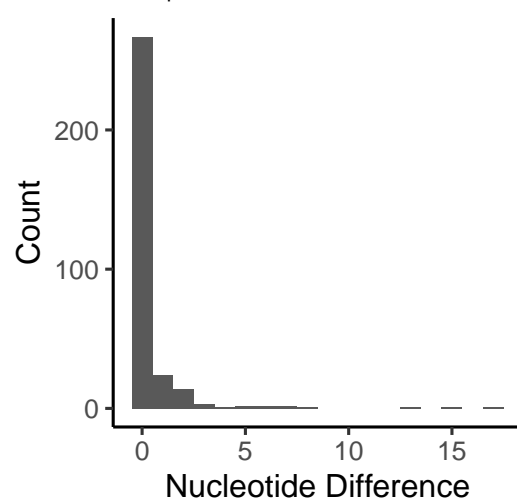
IGHV3-72*01

37 sequences assigned
31 (83.8%) exact matches, in which:
29 unique CDR3
7 unique J



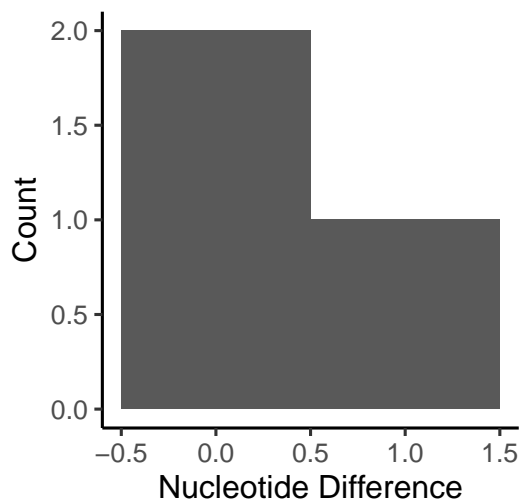
IGHV3-64D*09

320 sequences assigned
267 (83.4%) exact matches, in which:
242 unique CDR3
6 unique J



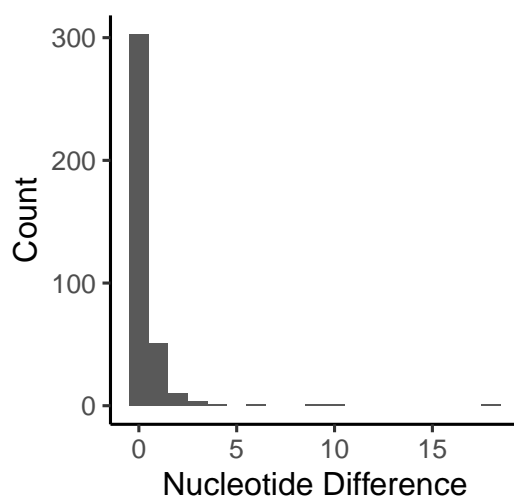
IGHV3-66*03

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



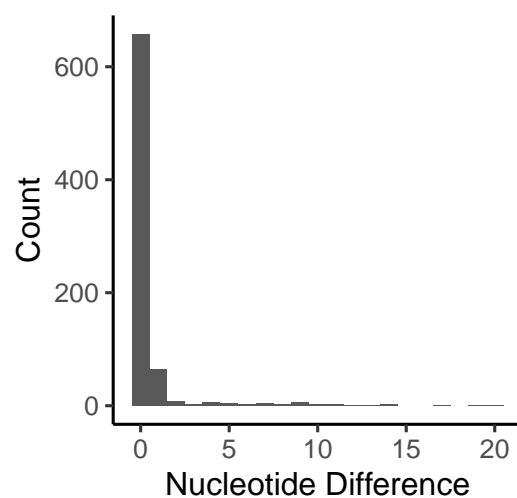
IGHV3-73*02

373 sequences assigned
303 (81.2%) exact matches, in which:
276 unique CDR3
7 unique J



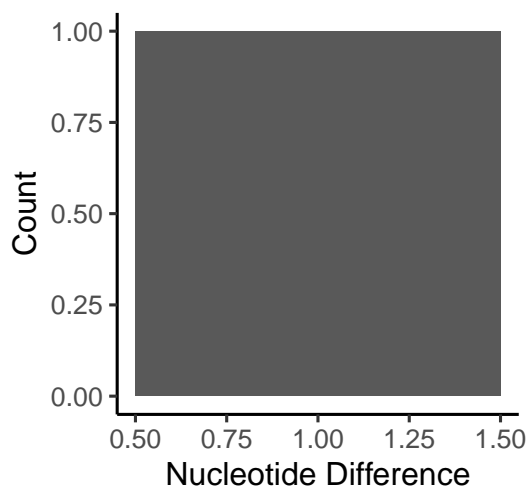
IGHV4-4*02

774 sequences assigned
658 (85%) exact matches, in which:
604 unique CDR3
7 unique J



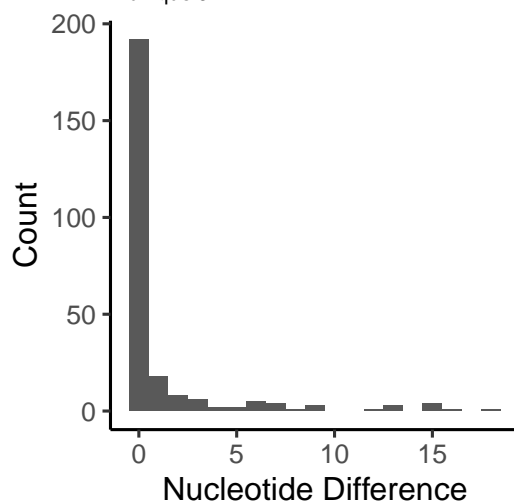
IGHV3-69-1*01

1 sequences assigned
No exact matches.



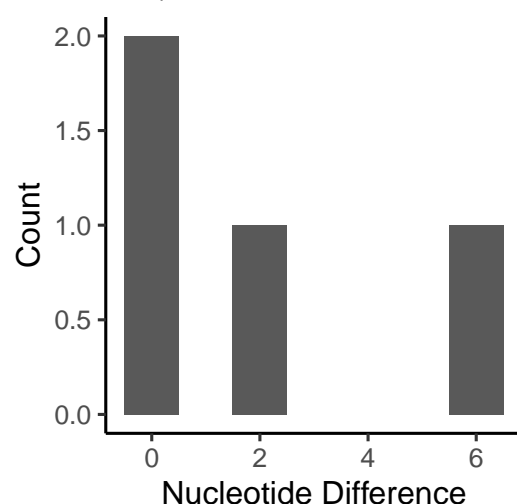
IGHV3-74*01

252 sequences assigned
192 (76.2%) exact matches, in which:
180 unique CDR3
7 unique J



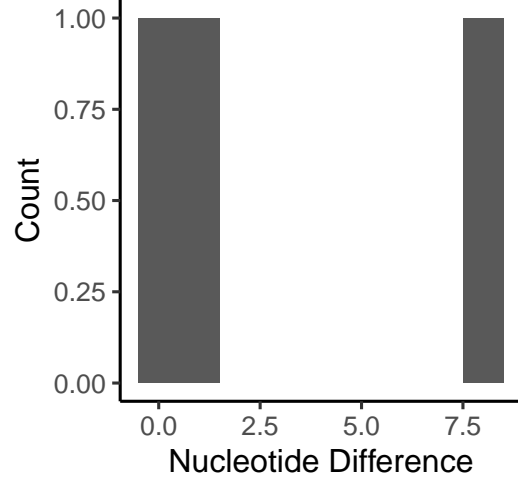
IGHV4-28*01

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



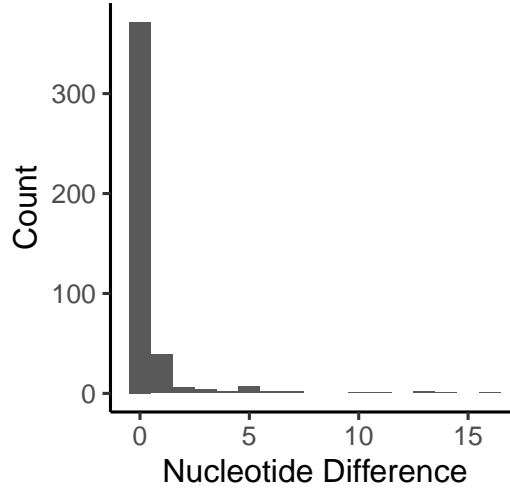
IGHV4-28*03

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



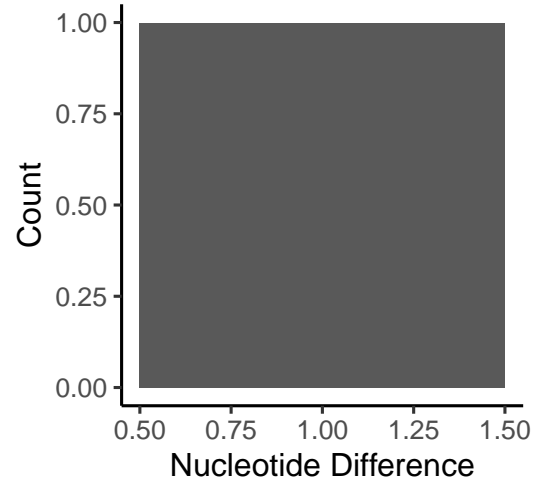
IGHV4-30-4*01

440 sequences assigned
372 (84.5%) exact matches, in which:
351 unique CDR3
7 unique J



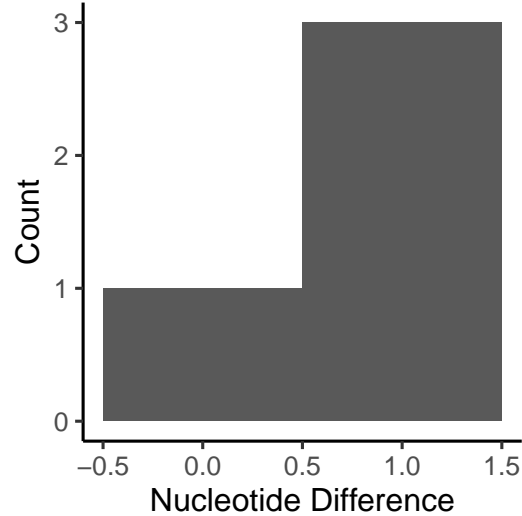
IGHV4-38-2*02

1 sequences assigned
No exact matches.



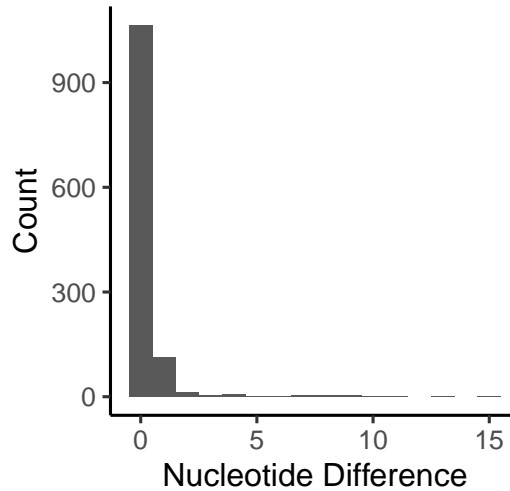
IGHV4-28*04

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



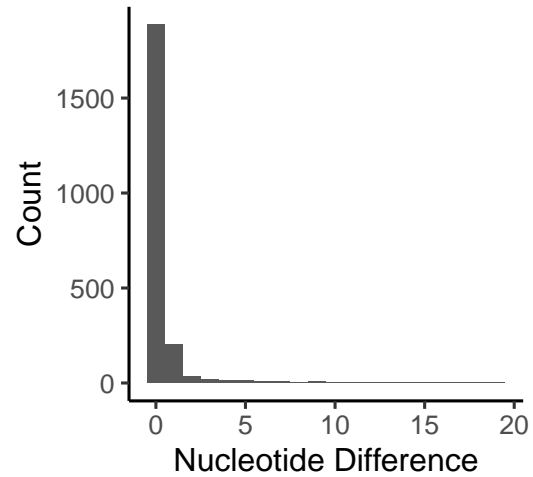
IGHV4-31*03

1223 sequences assigned
1065 (87.1%) exact matches, in which:
988 unique CDR3
7 unique J



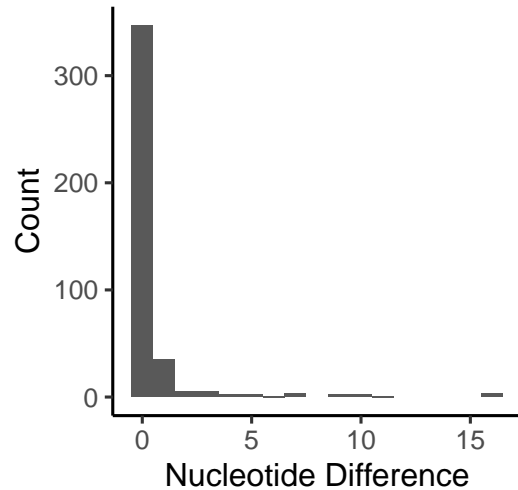
IGHV4-39*01

2222 sequences assigned
1886 (84.9%) exact matches, in which:
1681 unique CDR3
7 unique J



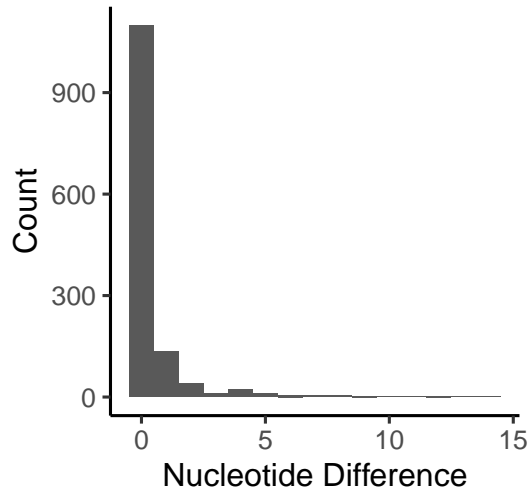
IGHV4-30-2*01

408 sequences assigned
347 (85%) exact matches, in which:
325 unique CDR3
7 unique J



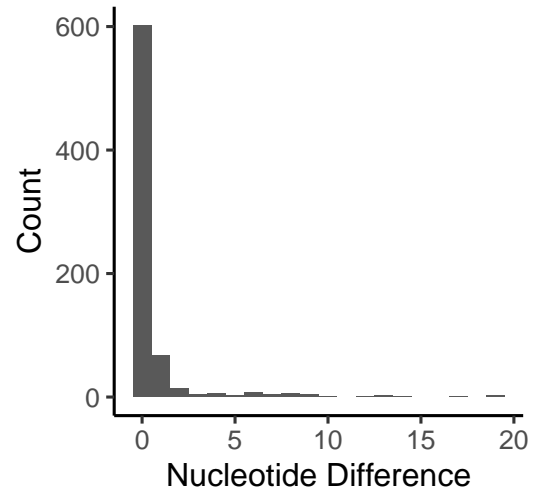
IGHV4-34*01

1345 sequences assigned
1099 (81.7%) exact matches, in which:
962 unique CDR3
7 unique J



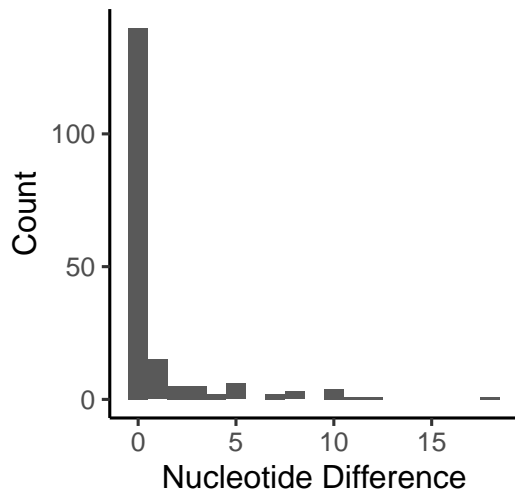
IGHV4-59*01

723 sequences assigned
602 (83.3%) exact matches, in which:
574 unique CDR3
6 unique J



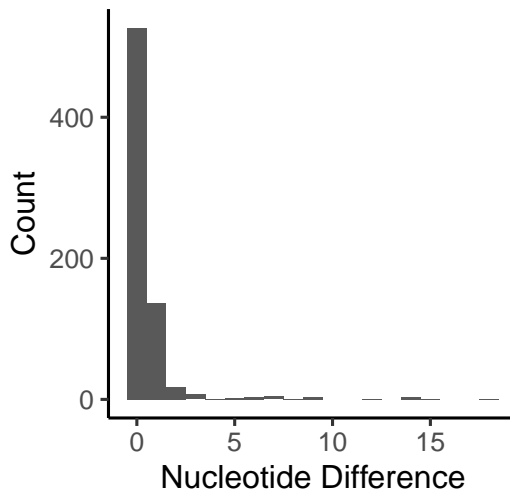
IGHV4–61*01

186 sequences assigned
140 (75.3%) exact matches, in which:
128 unique CDR3
7 unique J



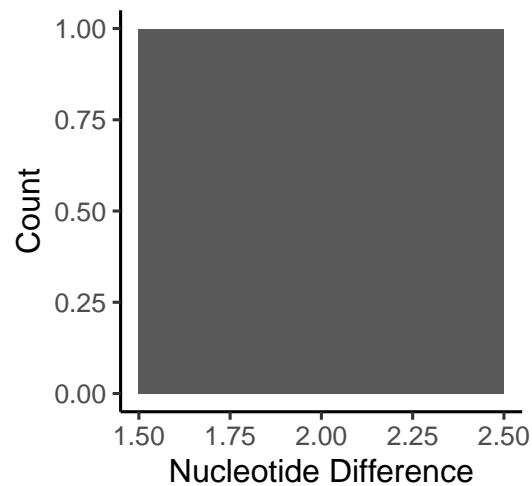
IGHV5–51*01

712 sequences assigned
527 (74%) exact matches, in which:
477 unique CDR3
7 unique J



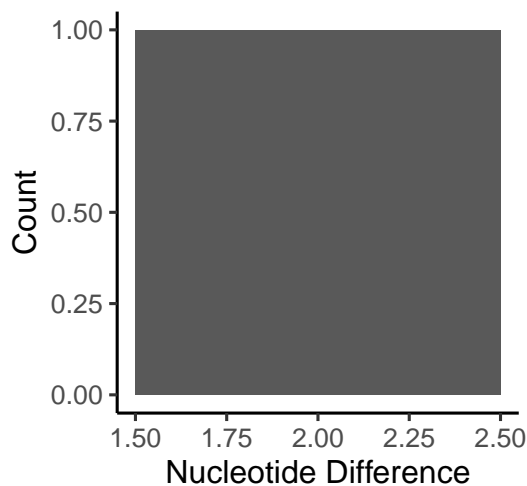
IGHV3/OR16–6*02

1 sequences assigned
No exact matches.



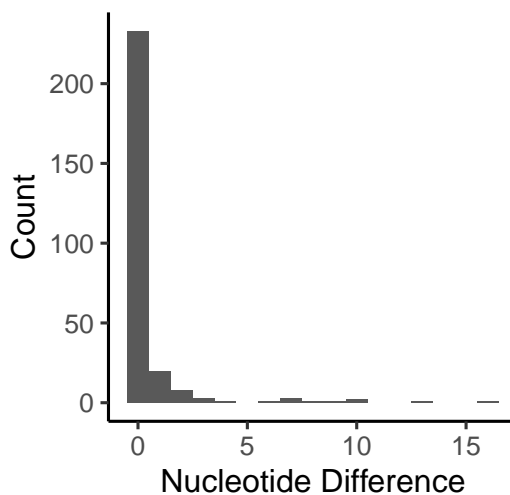
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



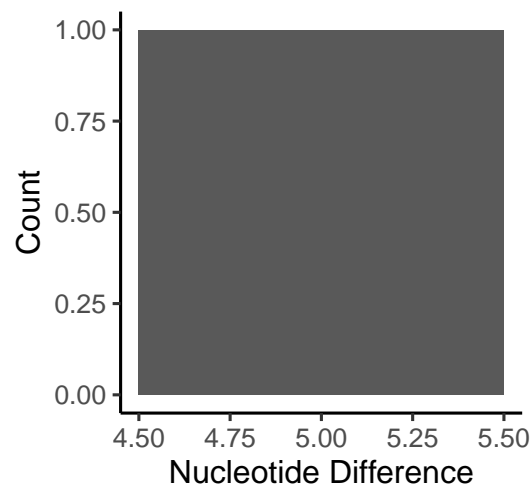
IGHV5–51*03

275 sequences assigned
233 (84.7%) exact matches, in which:
216 unique CDR3
7 unique J



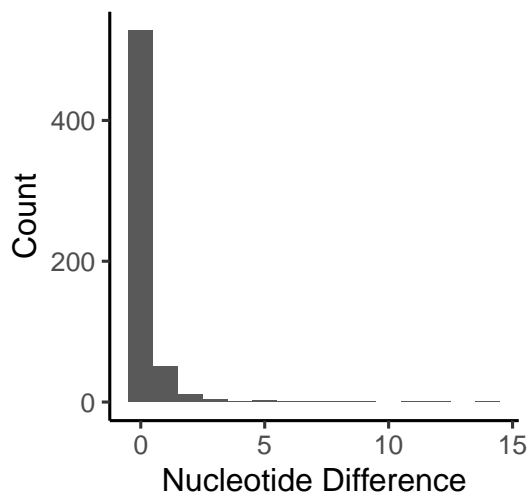
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.



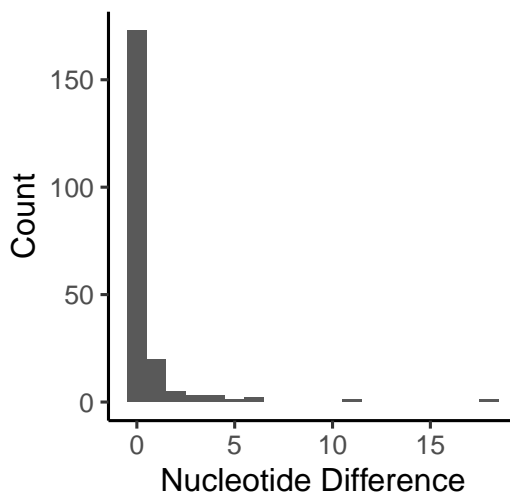
IGHV5–10–1*03

603 sequences assigned
528 (87.6%) exact matches, in which:
465 unique CDR3
6 unique J



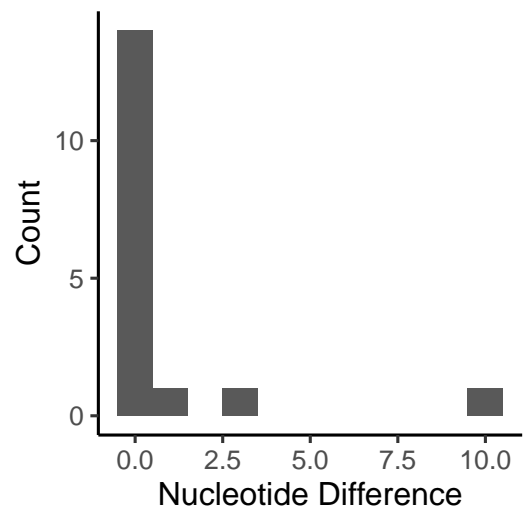
IGHV6–1*01

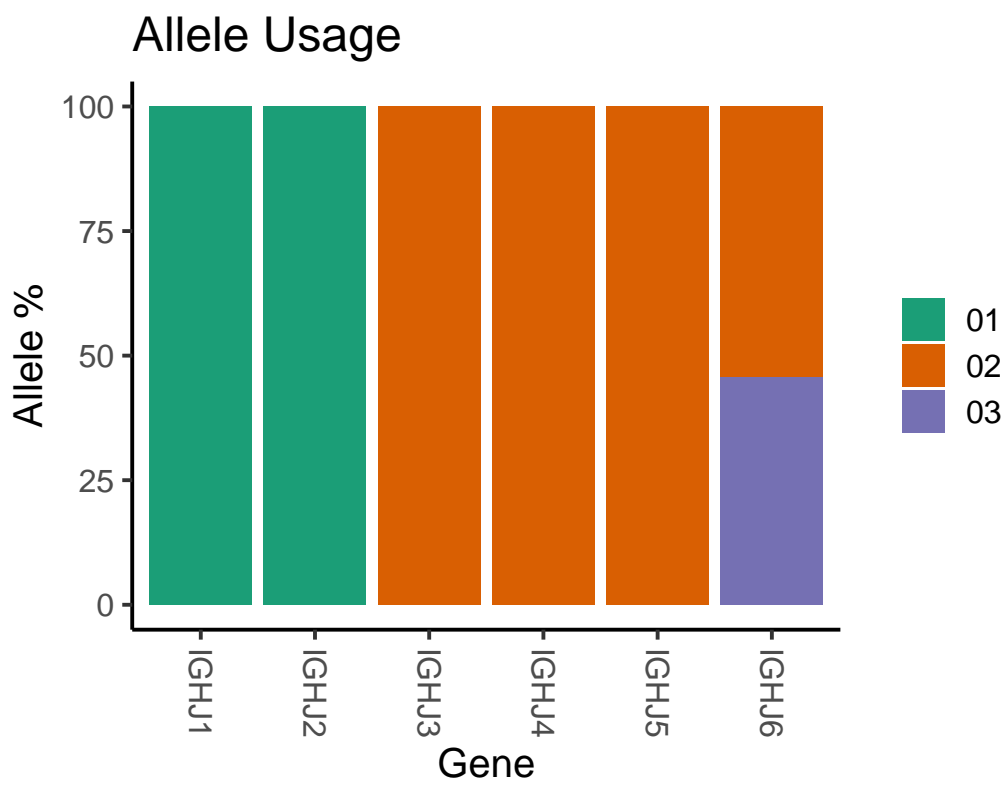
209 sequences assigned
173 (82.8%) exact matches, in which:
157 unique CDR3
7 unique J



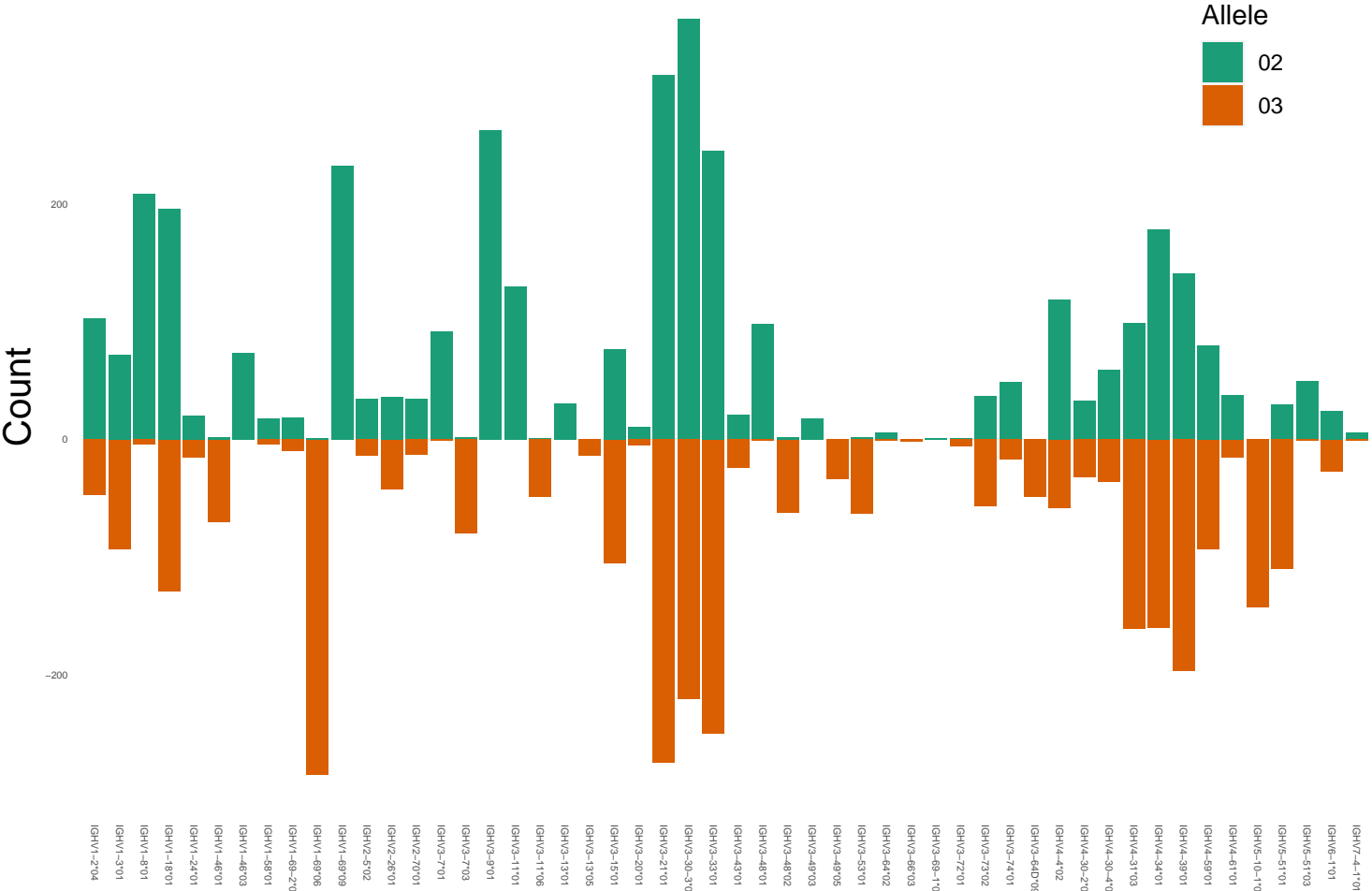
IGHV7–4–1*01

17 sequences assigned
14 (82.4%) exact matches, in which:
10 unique CDR3
4 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.