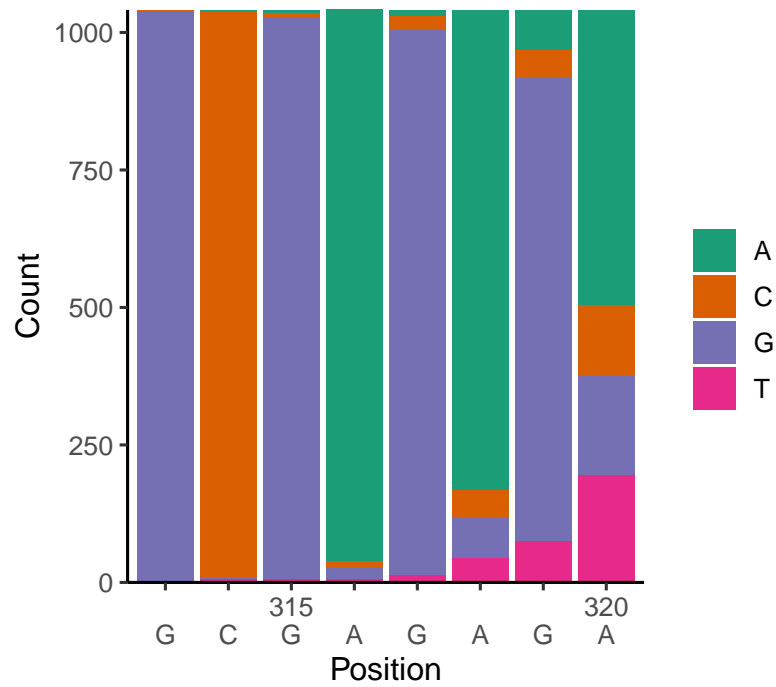


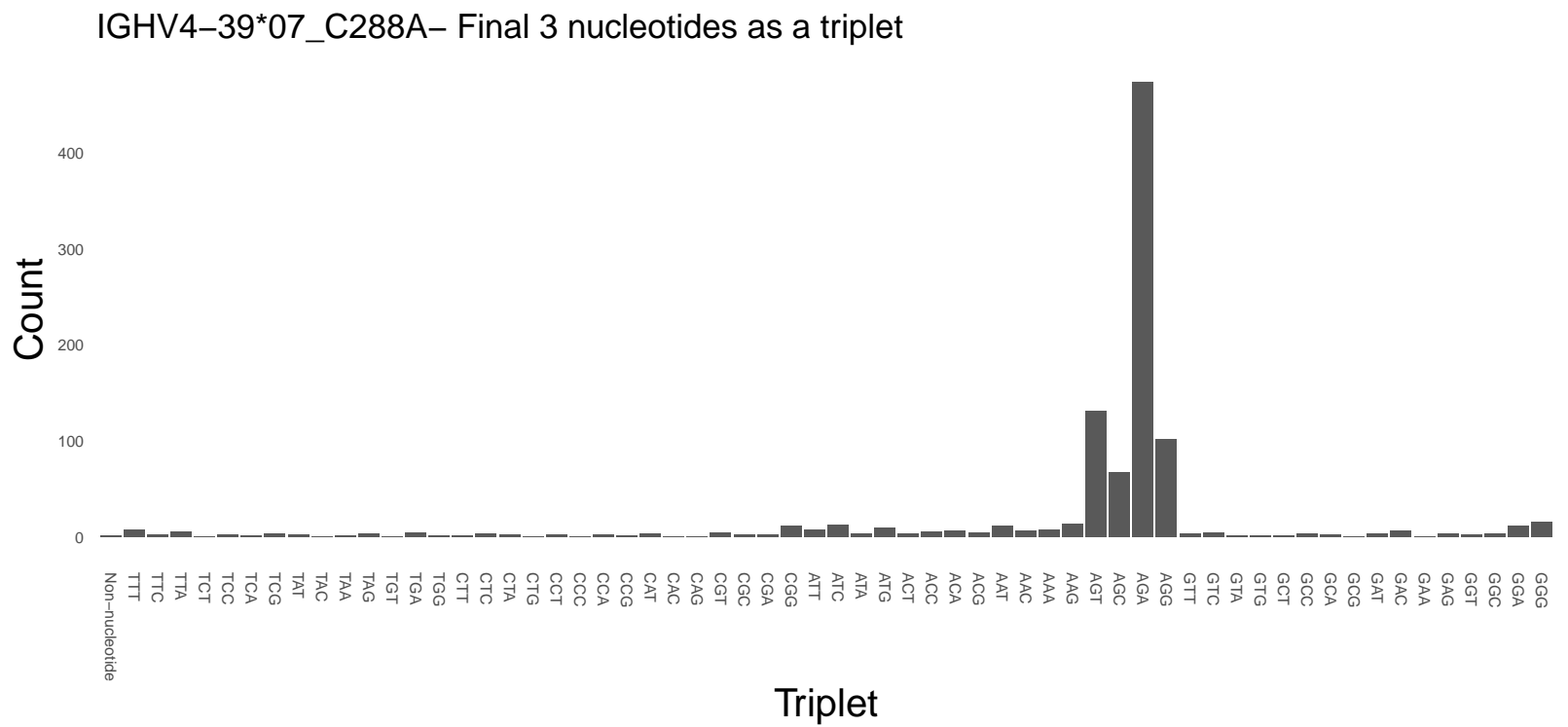
# Gene IGHV4-39\*07\_C288A



Gene IGHV4-39\*07\_C288A

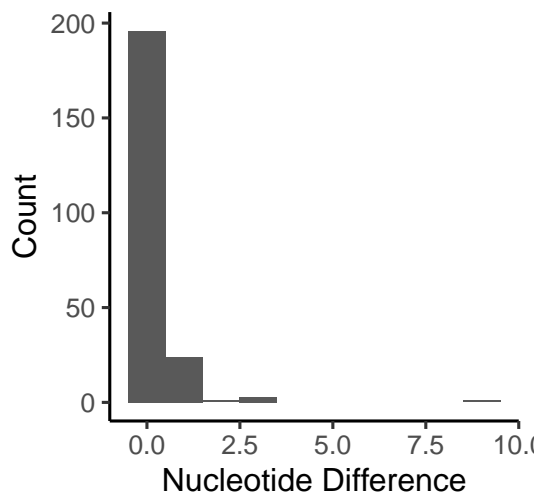


IGHV4-39\*07\_C288A- Final 3 nucleotides as a triplet



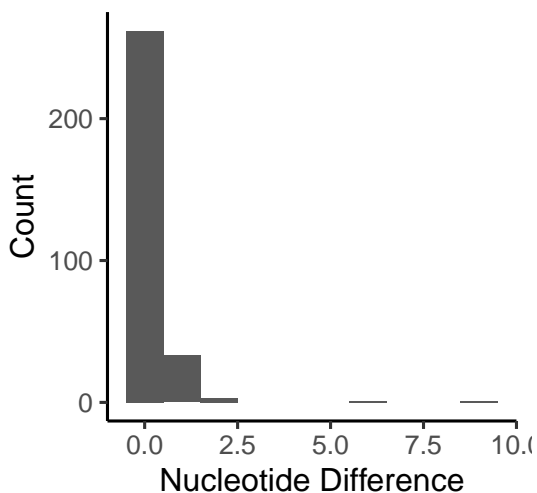
### IGHV1-2\*04

225 sequences assigned  
196 (87.1%) exact matches, in which:  
191 unique CDR3  
5 unique J



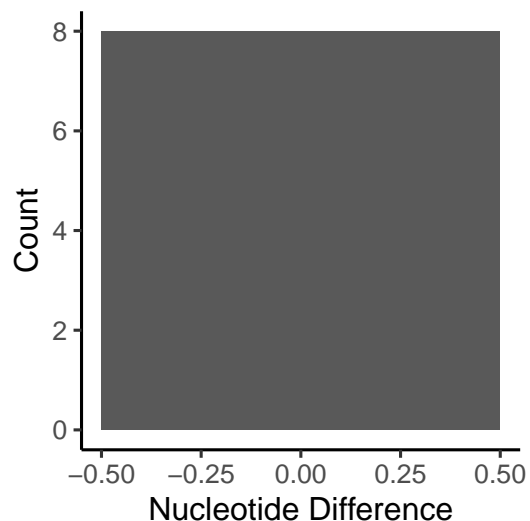
### IGHV1-8\*01

300 sequences assigned  
262 (87.3%) exact matches, in which:  
257 unique CDR3  
6 unique J



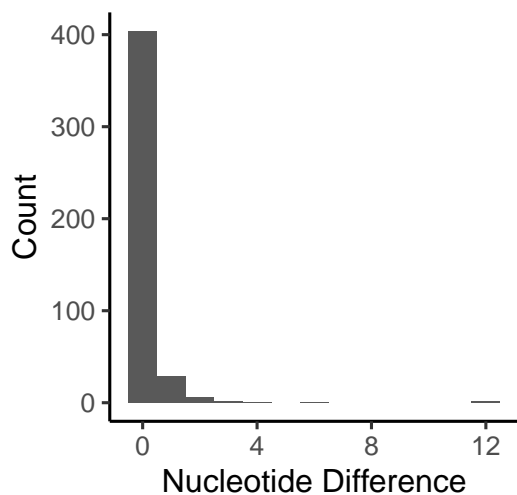
### IGHV1-45\*02

8 sequences assigned  
8 (100%) exact matches, in which:  
8 unique CDR3  
4 unique J



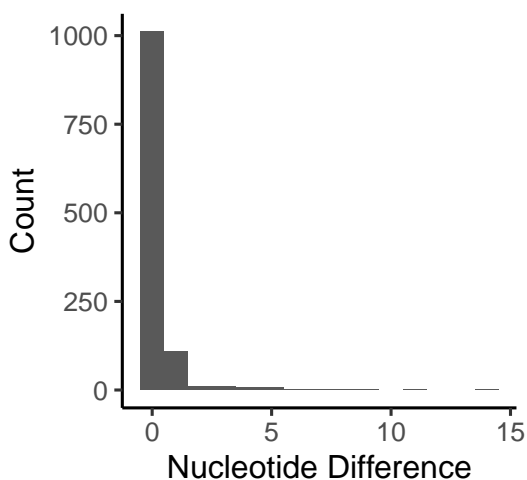
### IGHV1-2\*06

445 sequences assigned  
404 (90.8%) exact matches, in which:  
399 unique CDR3  
6 unique J



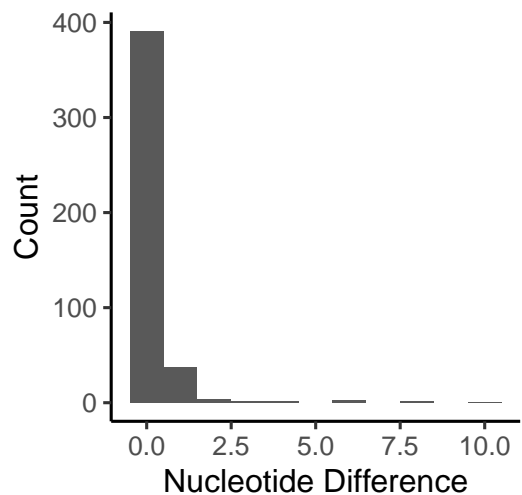
### IGHV1-18\*01

1159 sequences assigned  
1011 (87.2%) exact matches, in which:  
986 unique CDR3  
6 unique J



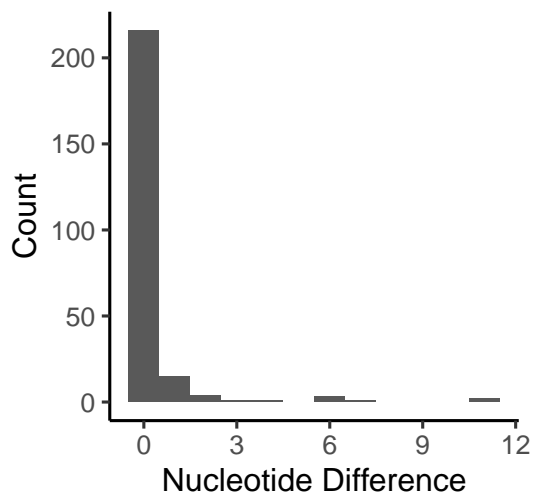
### IGHV1-46\*01

442 sequences assigned  
391 (88.5%) exact matches, in which:  
381 unique CDR3  
6 unique J



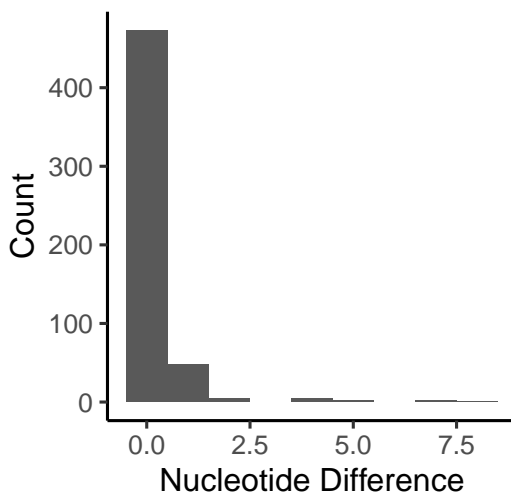
### IGHV1-3\*01

243 sequences assigned  
216 (88.9%) exact matches, in which:  
211 unique CDR3  
6 unique J



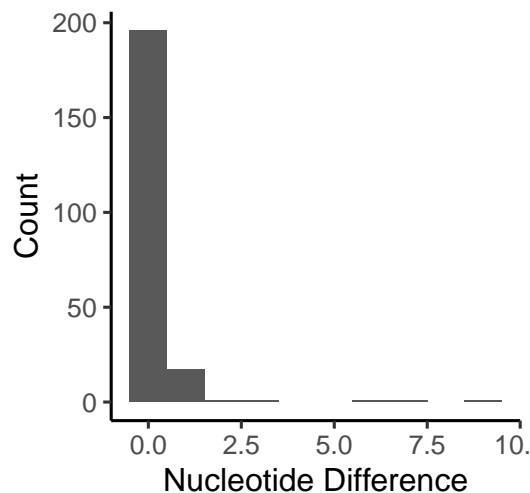
### IGHV1-24\*01

536 sequences assigned  
473 (88.2%) exact matches, in which:  
465 unique CDR3  
6 unique J



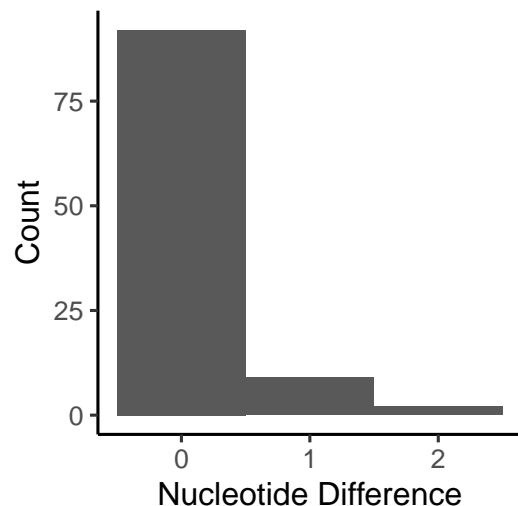
### IGHV1-46\*03

219 sequences assigned  
196 (89.5%) exact matches, in which:  
188 unique CDR3  
6 unique J



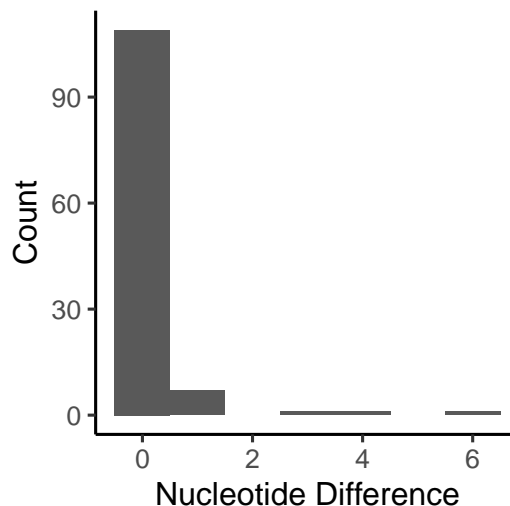
### IGHV1-58\*01

103 sequences assigned  
92 (89.3%) exact matches, in which:  
91 unique CDR3  
6 unique J



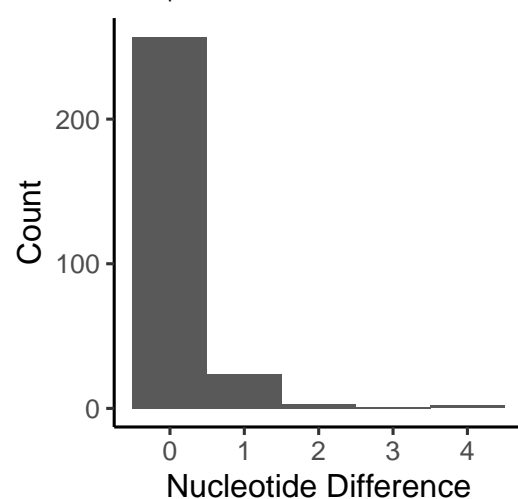
### IGHV1-69-2\*01

119 sequences assigned  
109 (91.6%) exact matches, in which:  
107 unique CDR3  
6 unique J



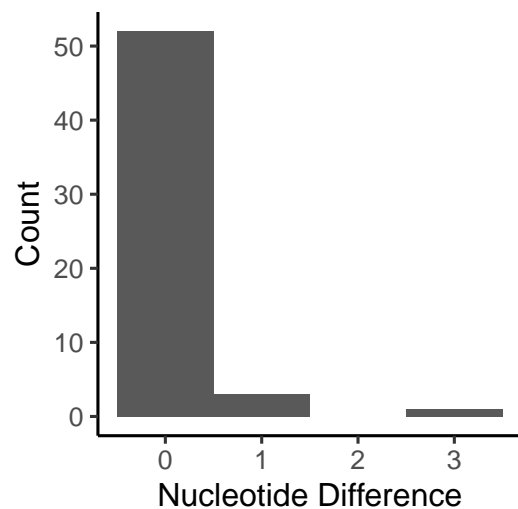
### IGHV2-5\*01

288 sequences assigned  
257 (89.2%) exact matches, in which:  
253 unique CDR3  
6 unique J



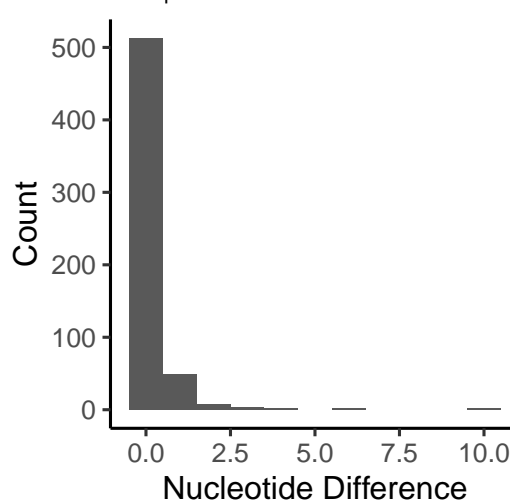
### IGHV1-58\*02

56 sequences assigned  
52 (92.9%) exact matches, in which:  
51 unique CDR3  
5 unique J



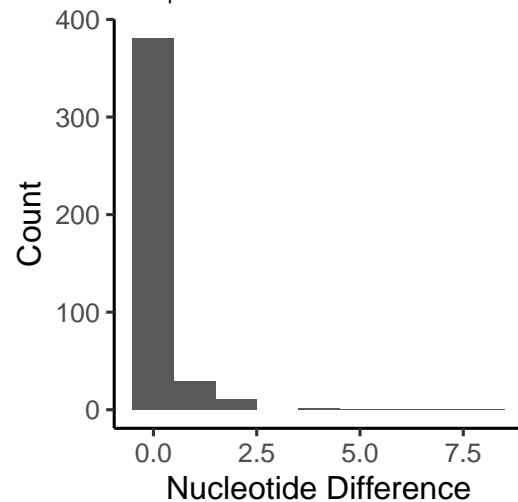
### IGHV1-69\*04

579 sequences assigned  
513 (88.6%) exact matches, in which:  
503 unique CDR3  
6 unique J



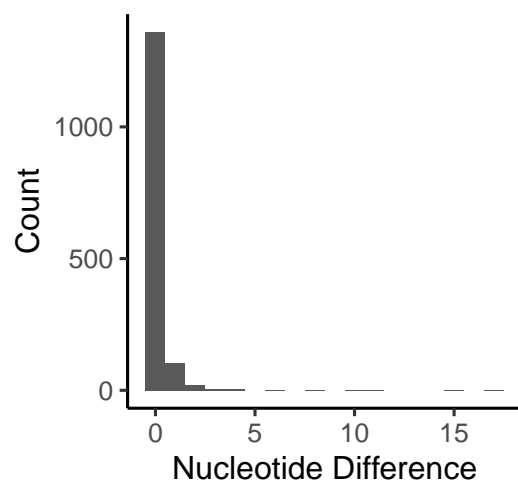
### IGHV2-5\*02

427 sequences assigned  
381 (89.2%) exact matches, in which:  
377 unique CDR3  
6 unique J



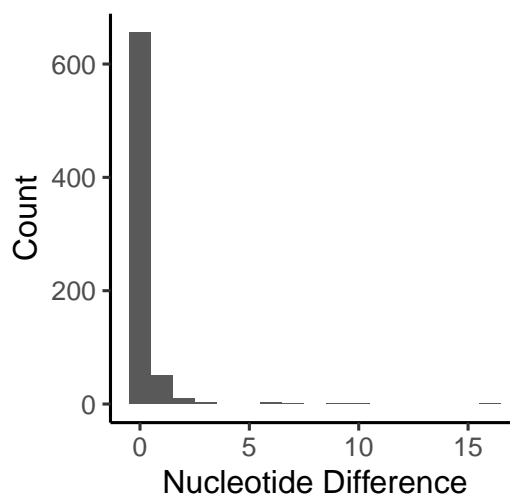
### IGHV1-69\*01

1500 sequences assigned  
1360 (90.7%) exact matches, in which:  
1331 unique CDR3  
6 unique J



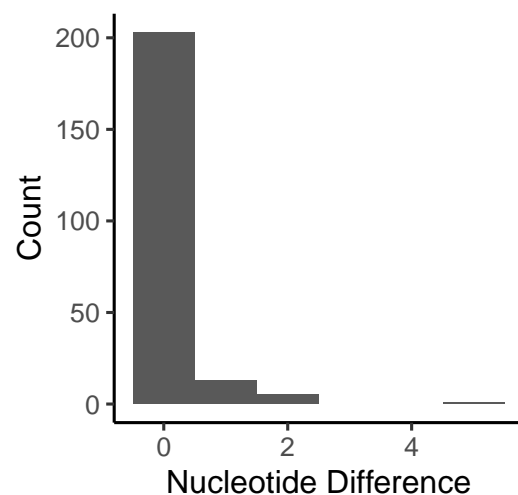
### IGHV1-69\*06

726 sequences assigned  
656 (90.4%) exact matches, in which:  
644 unique CDR3  
6 unique J



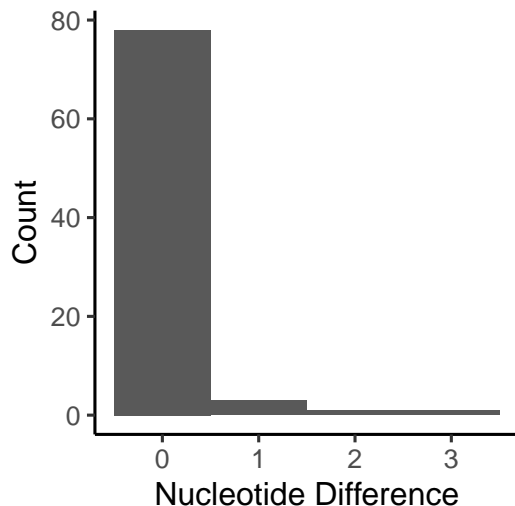
### IGHV2-26\*01

222 sequences assigned  
203 (91.4%) exact matches, in which:  
199 unique CDR3  
6 unique J



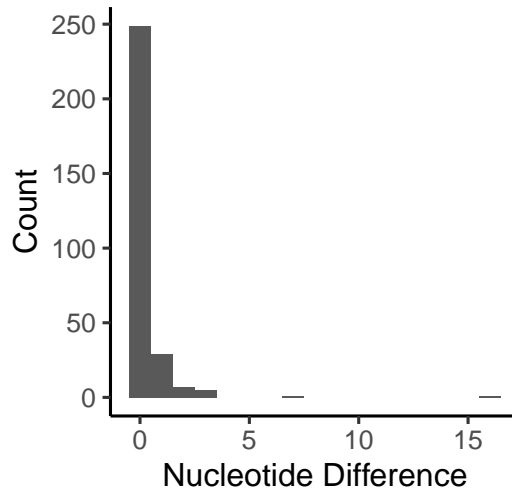
### IGHV2-70\*01

83 sequences assigned  
78 (94%) exact matches, in which:  
78 unique CDR3  
5 unique J



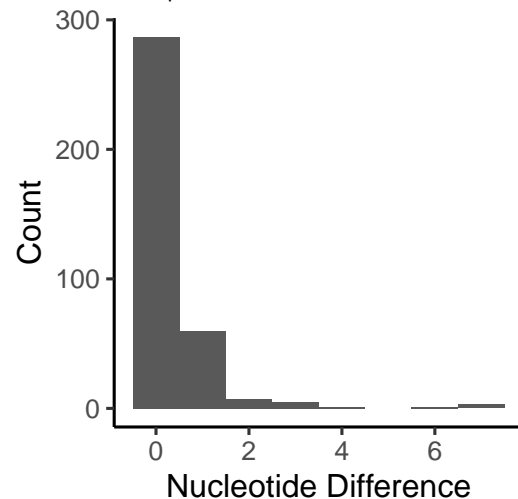
### IGHV3-7\*01

292 sequences assigned  
249 (85.3%) exact matches, in which:  
238 unique CDR3  
6 unique J



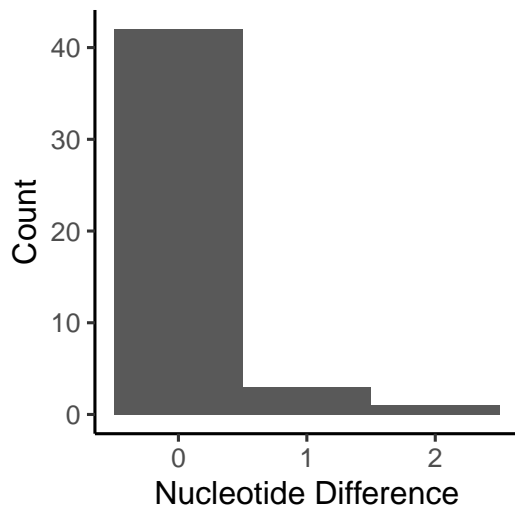
### IGHV3-11\*01

365 sequences assigned  
287 (78.6%) exact matches, in which:  
283 unique CDR3  
6 unique J



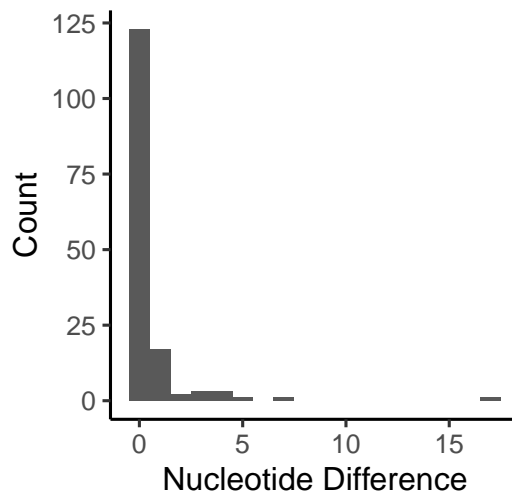
### IGHV2-70\*04

46 sequences assigned  
42 (91.3%) exact matches, in which:  
42 unique CDR3  
5 unique J



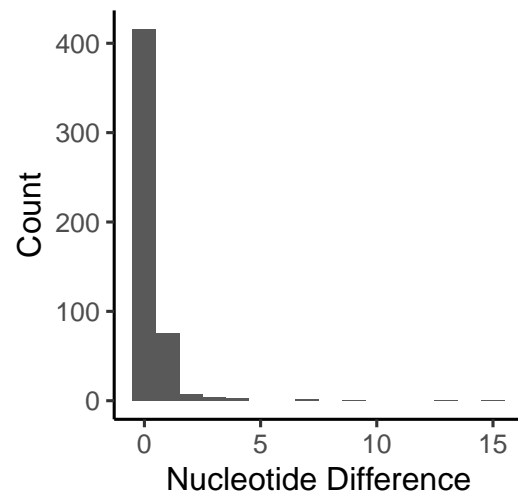
### IGHV3-7\*05

151 sequences assigned  
123 (81.5%) exact matches, in which:  
120 unique CDR3  
6 unique J



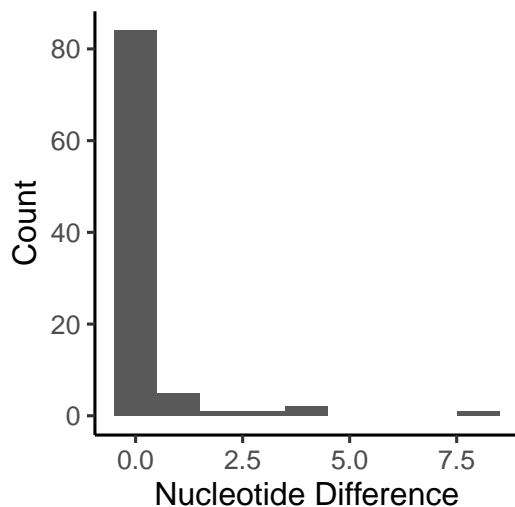
### IGHV3-11\*05

511 sequences assigned  
416 (81.4%) exact matches, in which:  
406 unique CDR3  
6 unique J



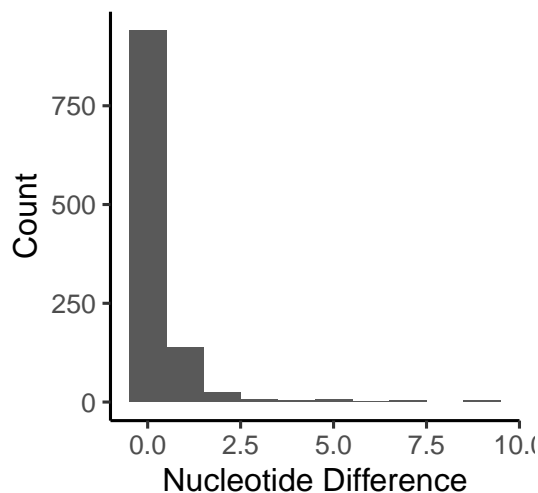
### IGHV2-70\*15

95 sequences assigned  
84 (88.4%) exact matches, in which:  
84 unique CDR3  
5 unique J



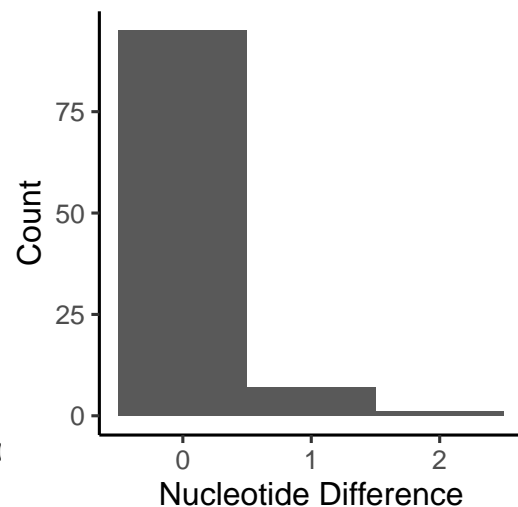
### IGHV3-9\*01

1133 sequences assigned  
941 (83.1%) exact matches, in which:  
913 unique CDR3  
6 unique J



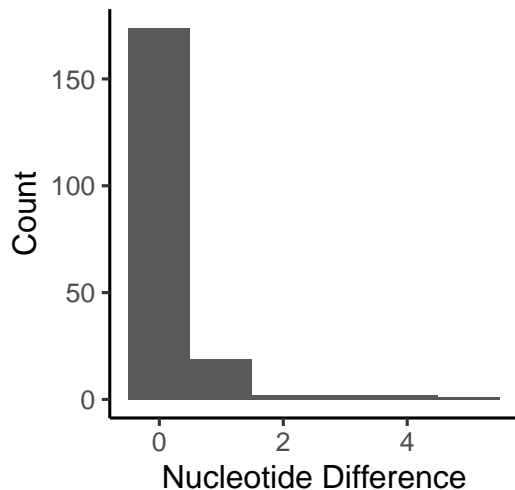
### IGHV3-13\*01

103 sequences assigned  
95 (92.2%) exact matches, in which:  
93 unique CDR3  
5 unique J



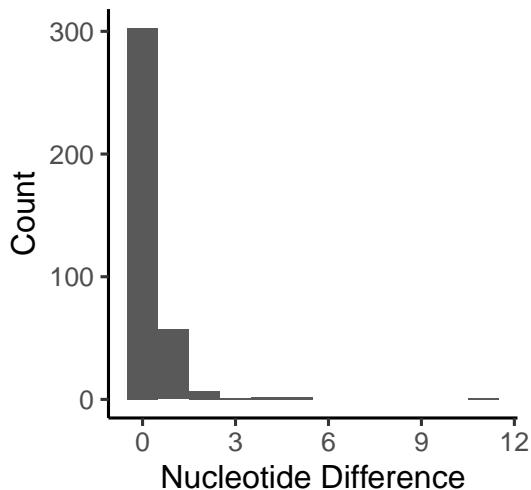
### IGHV3-13\*04

200 sequences assigned  
174 (87%) exact matches, in which:  
167 unique CDR3  
6 unique J



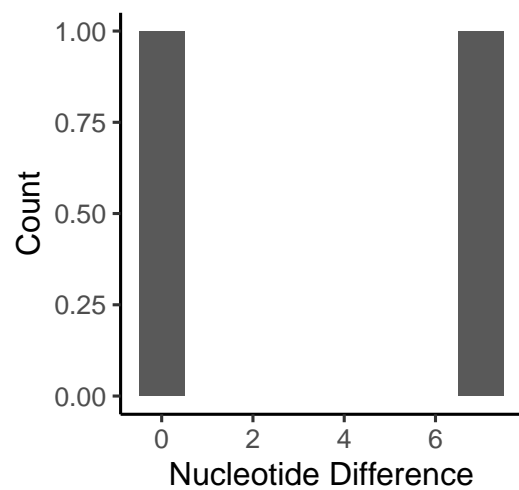
### IGHV3-20\*04

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



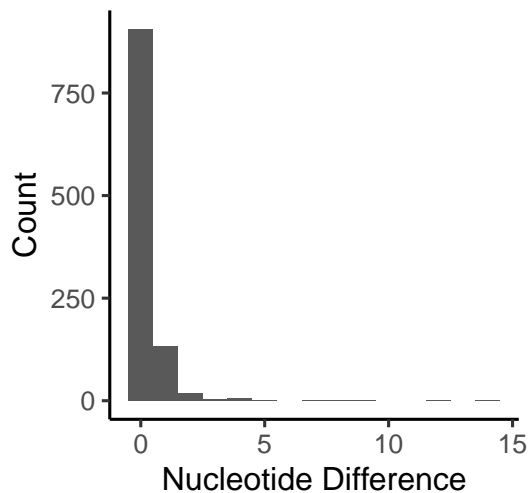
### IGHV3-30-3\*01

5 sequences assigned  
1 (20%) exact matches, in which:  
1 unique CDR3  
1 unique J



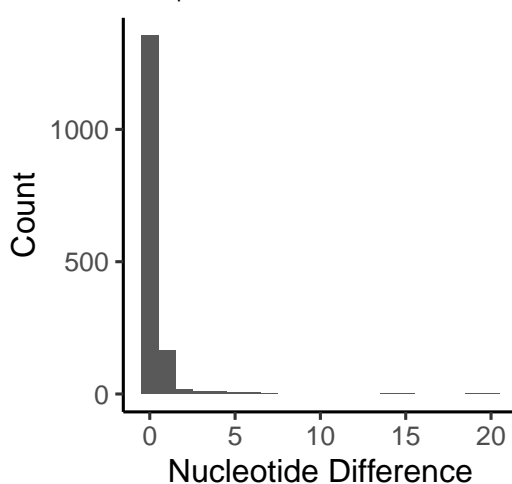
### IGHV3-15\*01

1075 sequences assigned  
906 (84.3%) exact matches, in which:  
875 unique CDR3  
6 unique J



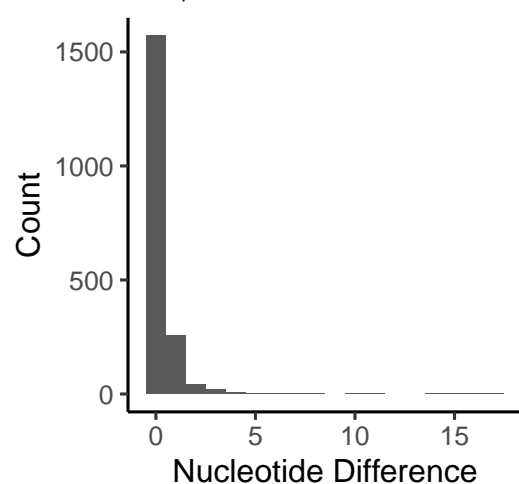
### IGHV3-21\*01

1573 sequences assigned  
1354 (86.1%) exact matches, in which:  
1300 unique CDR3  
6 unique J



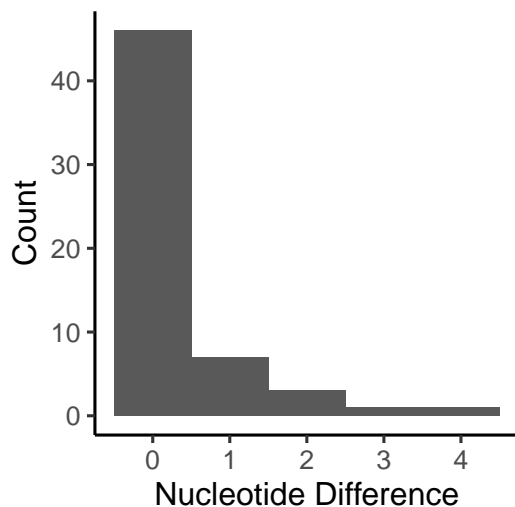
### IGHV3-30\*04

1913 sequences assigned  
1571 (82.1%) exact matches, in which:  
1530 unique CDR3  
6 unique J



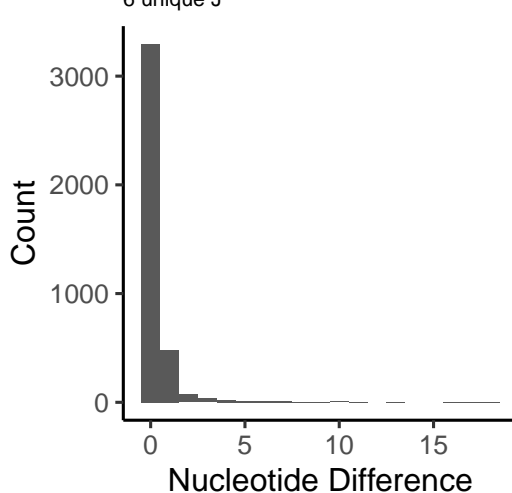
### IGHV3-20\*01

59 sequences assigned  
46 (78%) exact matches, in which:  
44 unique CDR3  
5 unique J



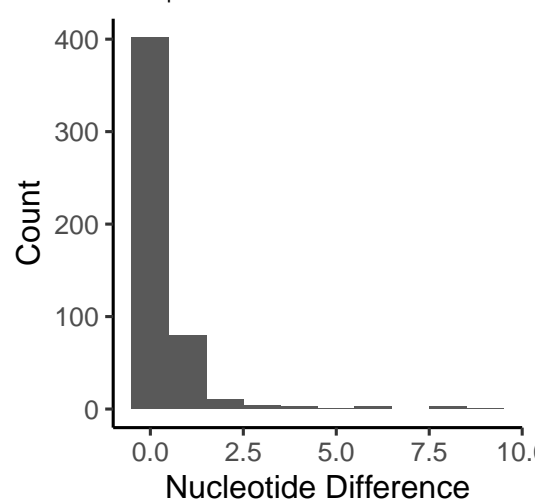
### IGHV3-23\*01

3970 sequences assigned  
3295 (83%) exact matches, in which:  
3162 unique CDR3  
6 unique J



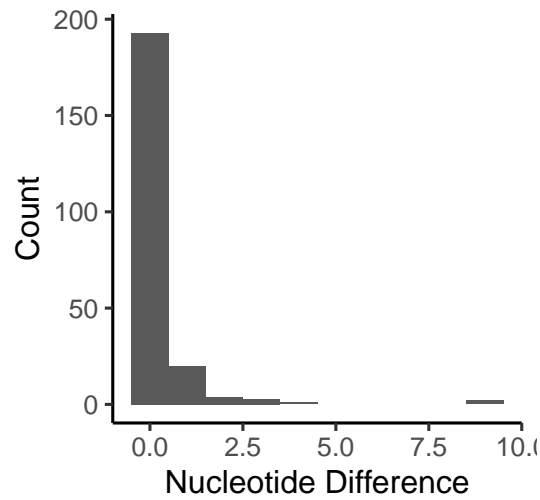
### IGHV3-33\*01

507 sequences assigned  
402 (79.3%) exact matches, in which:  
393 unique CDR3  
6 unique J



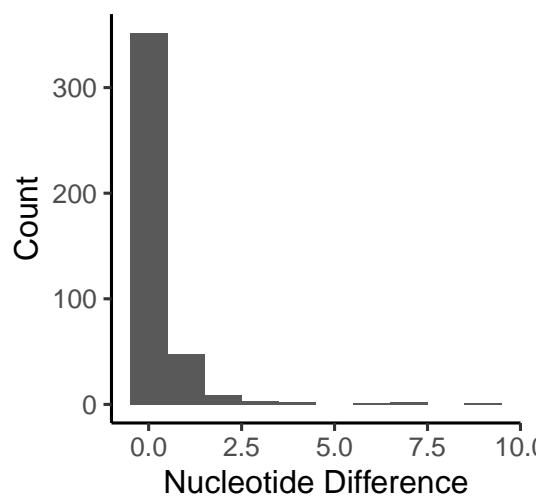
### IGHV3-43\*01

226 sequences assigned  
193 (85.4%) exact matches, in which:  
187 unique CDR3  
6 unique J



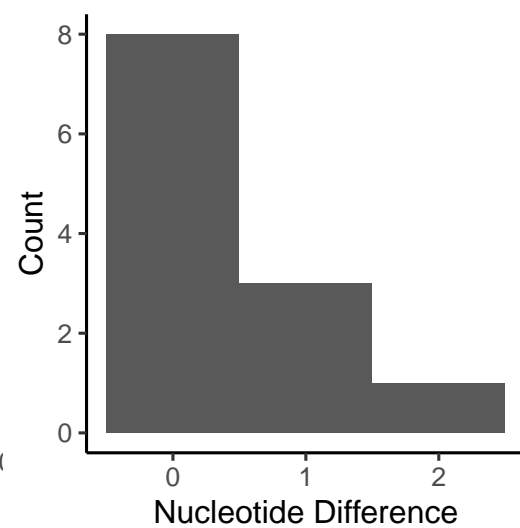
### IGHV3-49\*03

419 sequences assigned  
352 (84%) exact matches, in which:  
340 unique CDR3  
6 unique J



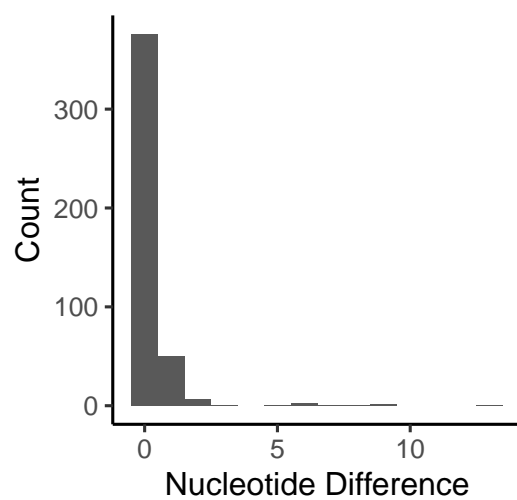
### IGHV3-64\*02

12 sequences assigned  
8 (66.7%) exact matches, in which:  
8 unique CDR3  
3 unique J



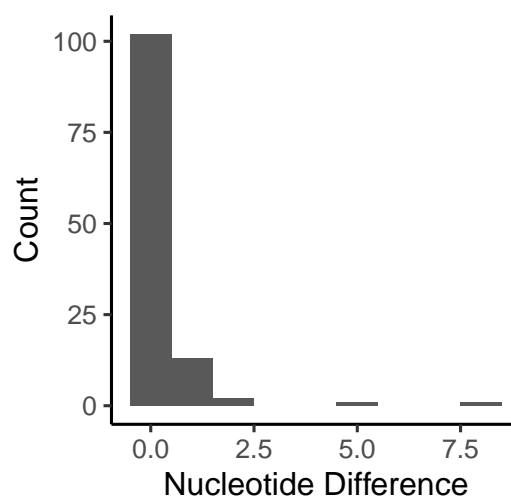
### IGHV3-48\*01

443 sequences assigned  
376 (84.9%) exact matches, in which:  
370 unique CDR3  
6 unique J



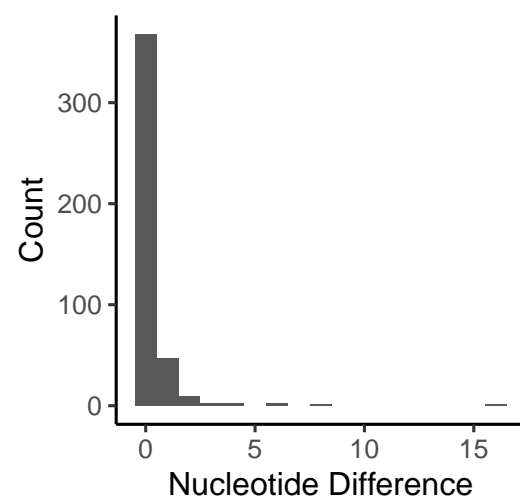
### IGHV3-53\*04

120 sequences assigned  
102 (85%) exact matches, in which:  
100 unique CDR3  
5 unique J



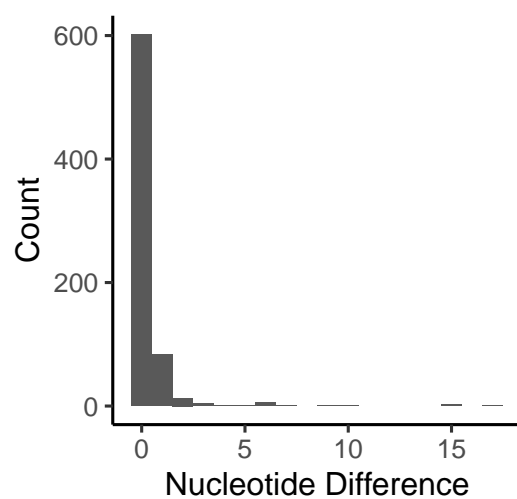
### IGHV3-66\*01

432 sequences assigned  
368 (85.2%) exact matches, in which:  
357 unique CDR3  
6 unique J



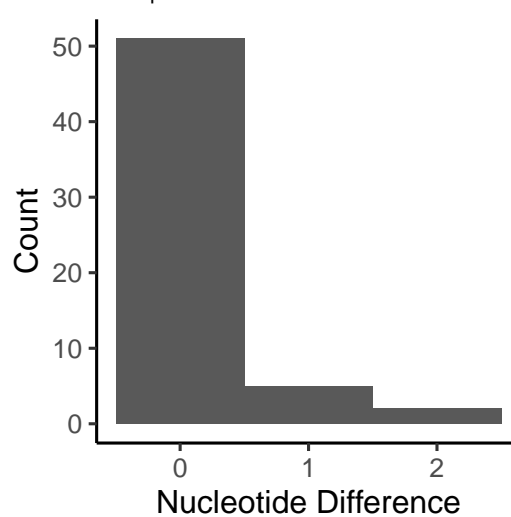
### IGHV3-48\*04

720 sequences assigned  
602 (83.6%) exact matches, in which:  
578 unique CDR3  
6 unique J



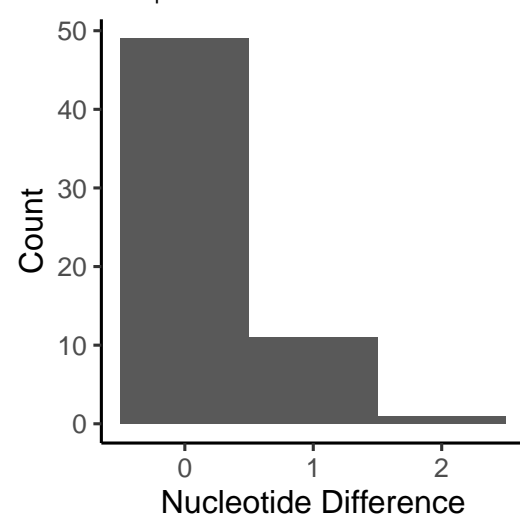
### IGHV3-64\*01

58 sequences assigned  
51 (87.9%) exact matches, in which:  
49 unique CDR3  
6 unique J



### IGHV3-72\*01

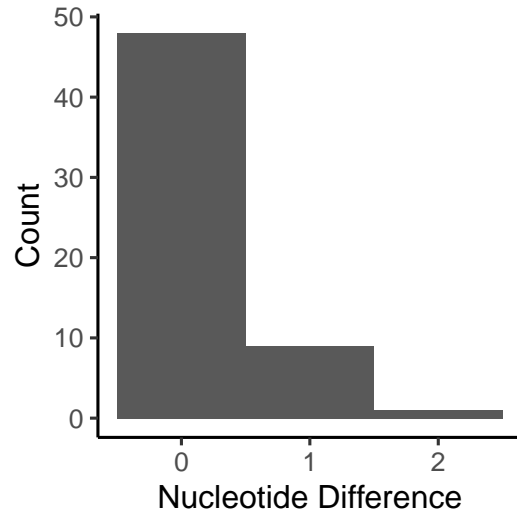
61 sequences assigned  
49 (80.3%) exact matches, in which:  
47 unique CDR3  
5 unique J





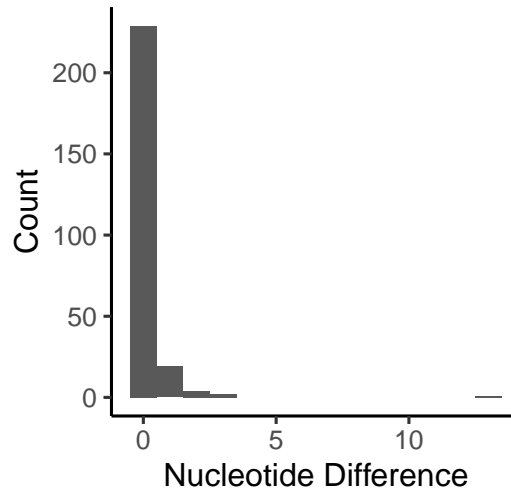
### IGHV3-73\*01

58 sequences assigned  
48 (82.8%) exact matches, in which:  
46 unique CDR3  
5 unique J



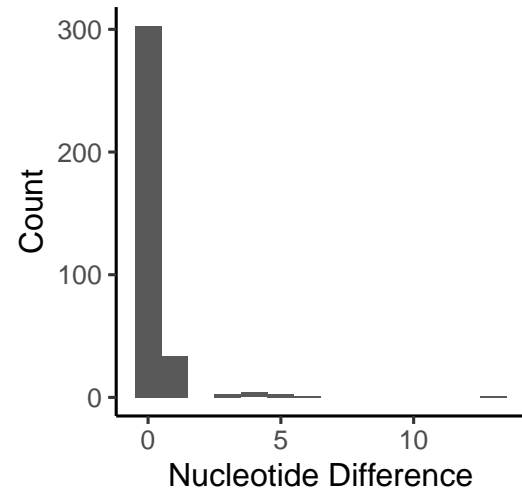
### IGHV3-64D\*09

256 sequences assigned  
229 (89.5%) exact matches, in which:  
219 unique CDR3  
6 unique J



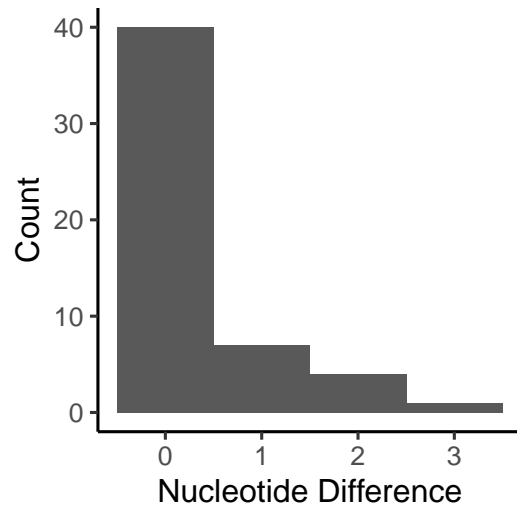
### IGHV4-4\*07

349 sequences assigned  
303 (86.8%) exact matches, in which:  
301 unique CDR3  
6 unique J



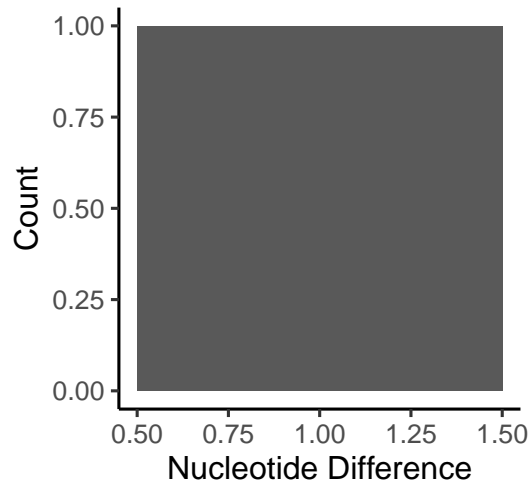
### IGHV3-73\*02

52 sequences assigned  
40 (76.9%) exact matches, in which:  
40 unique CDR3  
5 unique J



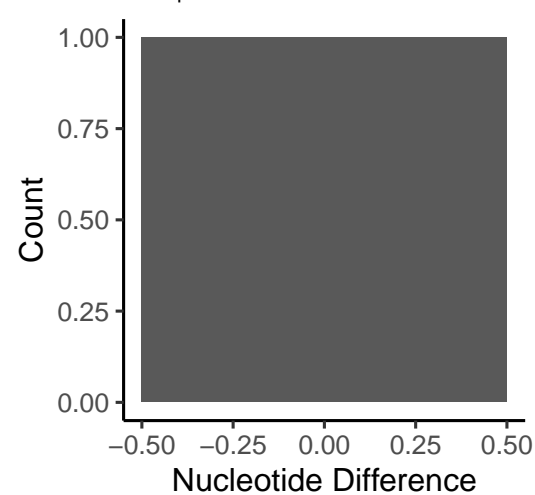
### IGHV3-NL1\*01

1 sequences assigned  
No exact matches.



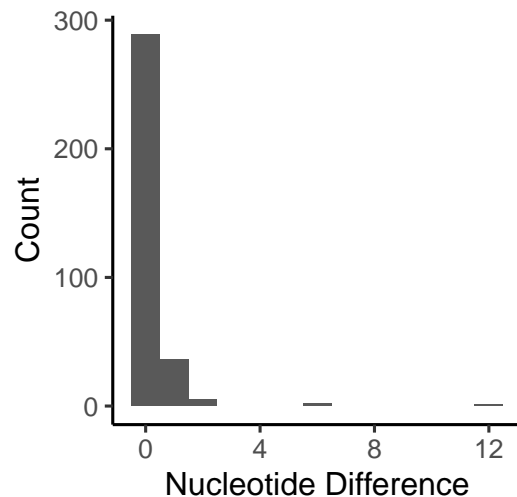
### IGHV4-28\*04

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



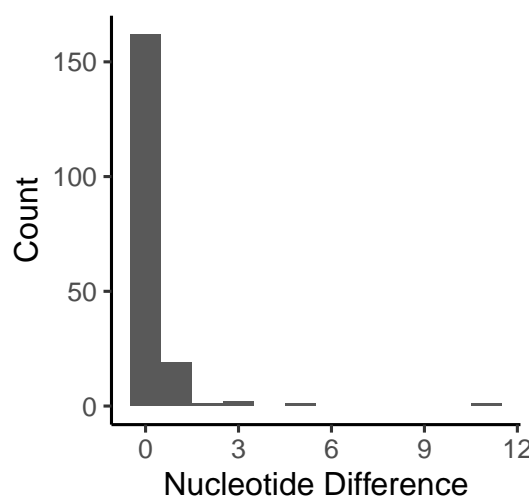
### IGHV3-74\*01

333 sequences assigned  
289 (86.8%) exact matches, in which:  
285 unique CDR3  
6 unique J



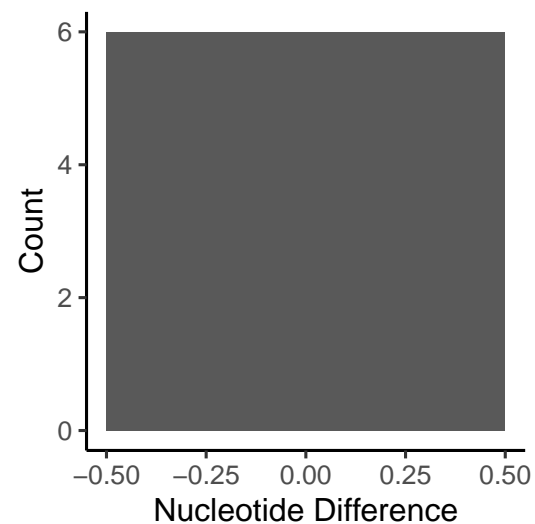
### IGHV4-4\*02

186 sequences assigned  
162 (87.1%) exact matches, in which:  
161 unique CDR3  
6 unique J



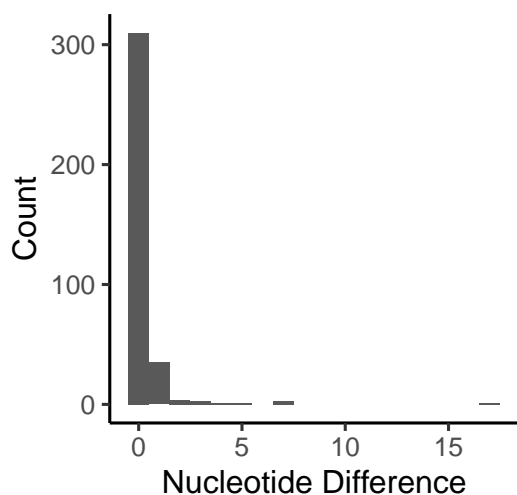
### IGHV4-28\*05

6 sequences assigned  
6 (100%) exact matches, in which:  
6 unique CDR3  
3 unique J



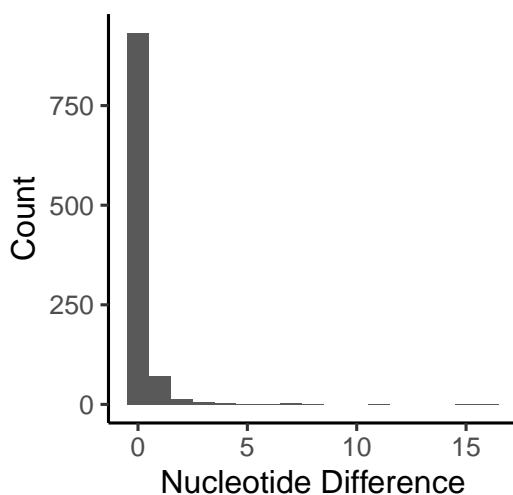
### IGHV4-31\*03

358 sequences assigned  
310 (86.6%) exact matches, in which:  
304 unique CDR3  
6 unique J



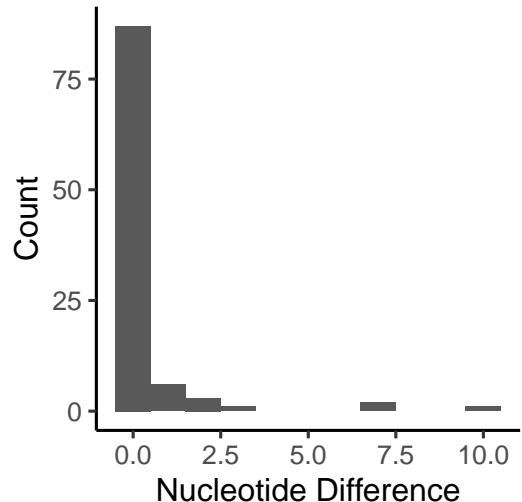
### IGHV4-39\*07\_C288A

1041 sequences assigned  
933 (89.6%) exact matches, in which:  
897 unique CDR3  
6 unique J



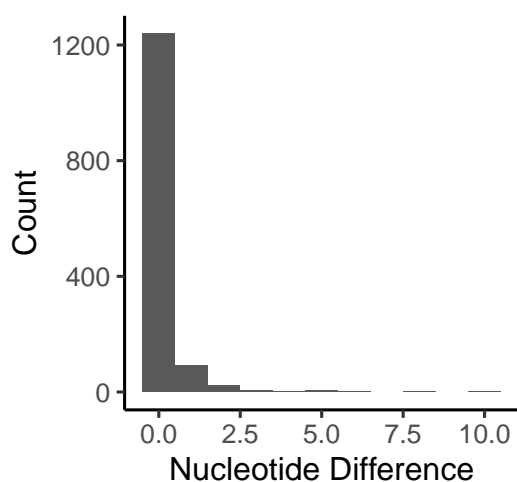
### IGHV4-61\*01

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



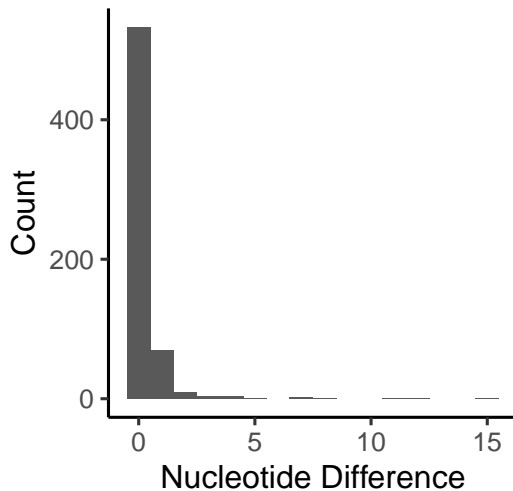
### IGHV4-34\*01

1368 sequences assigned  
1239 (90.6%) exact matches, in which:  
1209 unique CDR3  
6 unique J



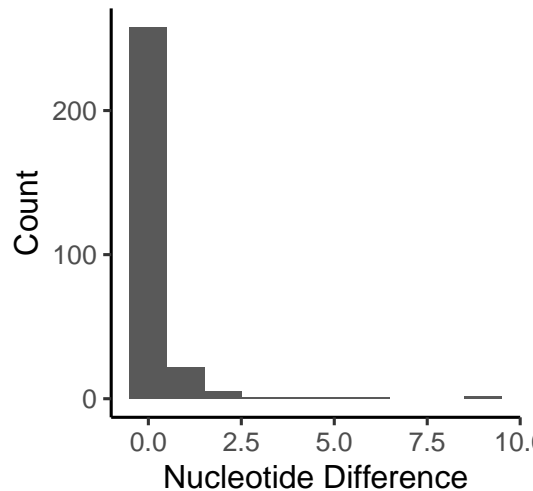
### IGHV4-59\*01

626 sequences assigned  
533 (85.1%) exact matches, in which:  
528 unique CDR3  
6 unique J



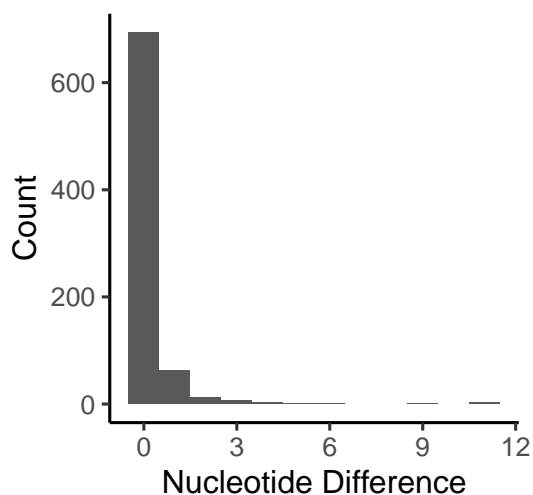
### IGHV5-10-1\*01

292 sequences assigned  
258 (88.4%) exact matches, in which:  
248 unique CDR3  
6 unique J



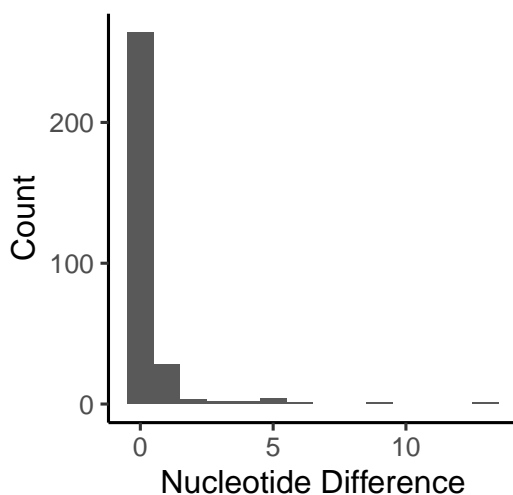
### IGHV4-39\*01

787 sequences assigned  
694 (88.2%) exact matches, in which:  
670 unique CDR3  
6 unique J



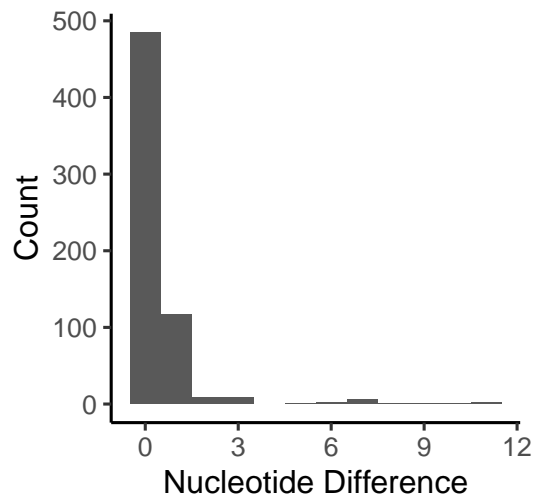
### IGHV4-59\*08

309 sequences assigned  
264 (85.4%) exact matches, in which:  
259 unique CDR3  
6 unique J



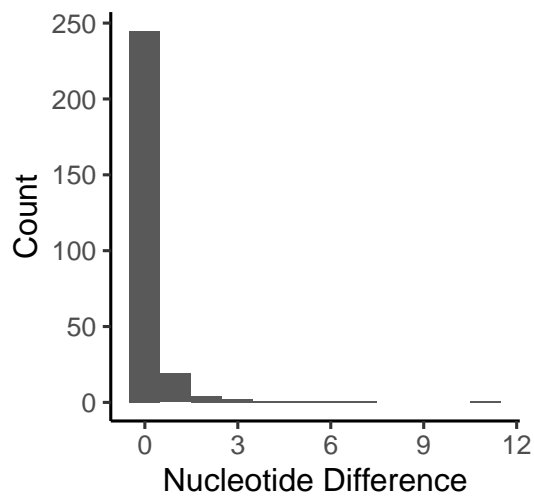
### IGHV5-51\*01

633 sequences assigned  
485 (76.6%) exact matches, in which:  
476 unique CDR3  
6 unique J



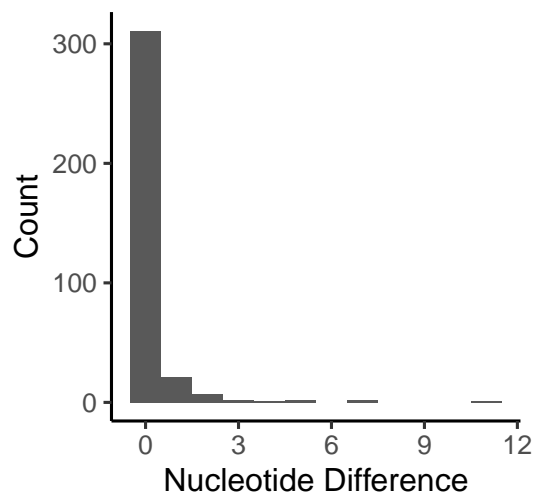
## IGHV5–51\*03

275 sequences assigned  
245 (89.1%) exact matches, in which:  
242 unique CDR3  
6 unique J



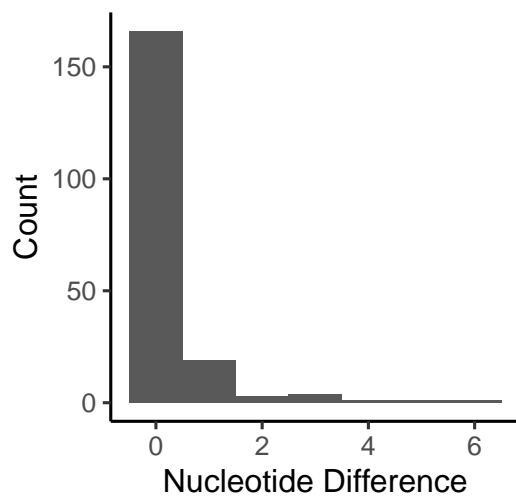
## IGHV7–4–1\*02

348 sequences assigned  
311 (89.4%) exact matches, in which:  
302 unique CDR3  
6 unique J



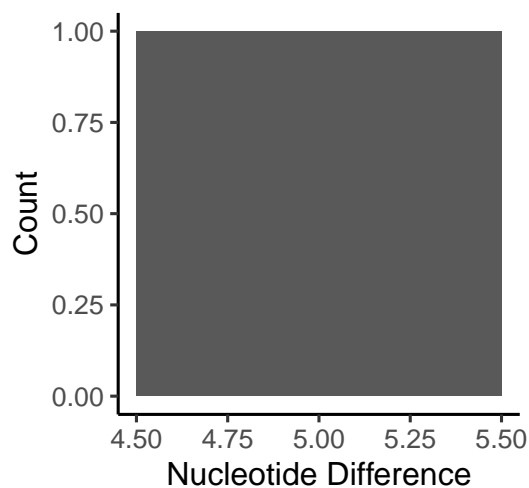
## IGHV6–1\*01

197 sequences assigned  
166 (84.3%) exact matches, in which:  
160 unique CDR3  
6 unique J



## IGHV3/OR16–15\*02

1 sequences assigned  
No exact matches.



IGHV4-39\*07\_C288A

