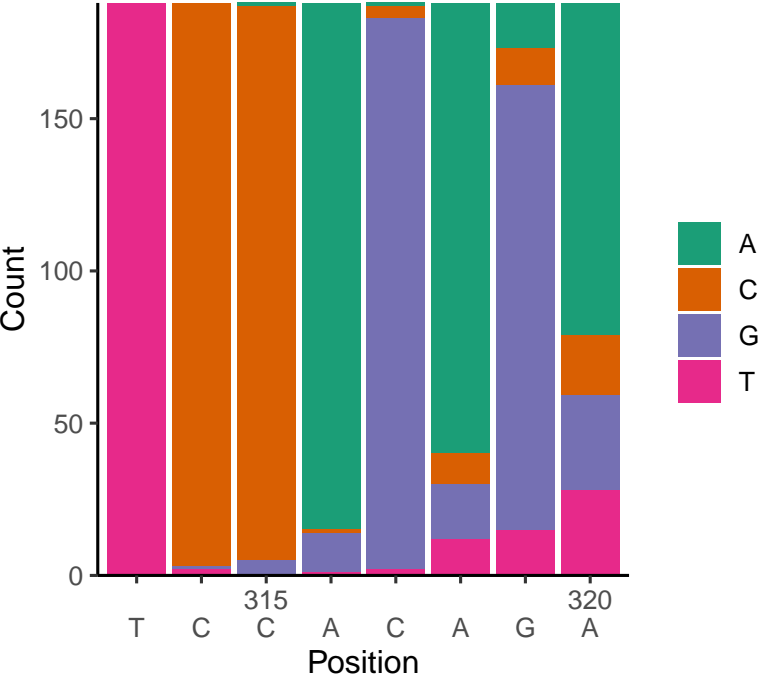
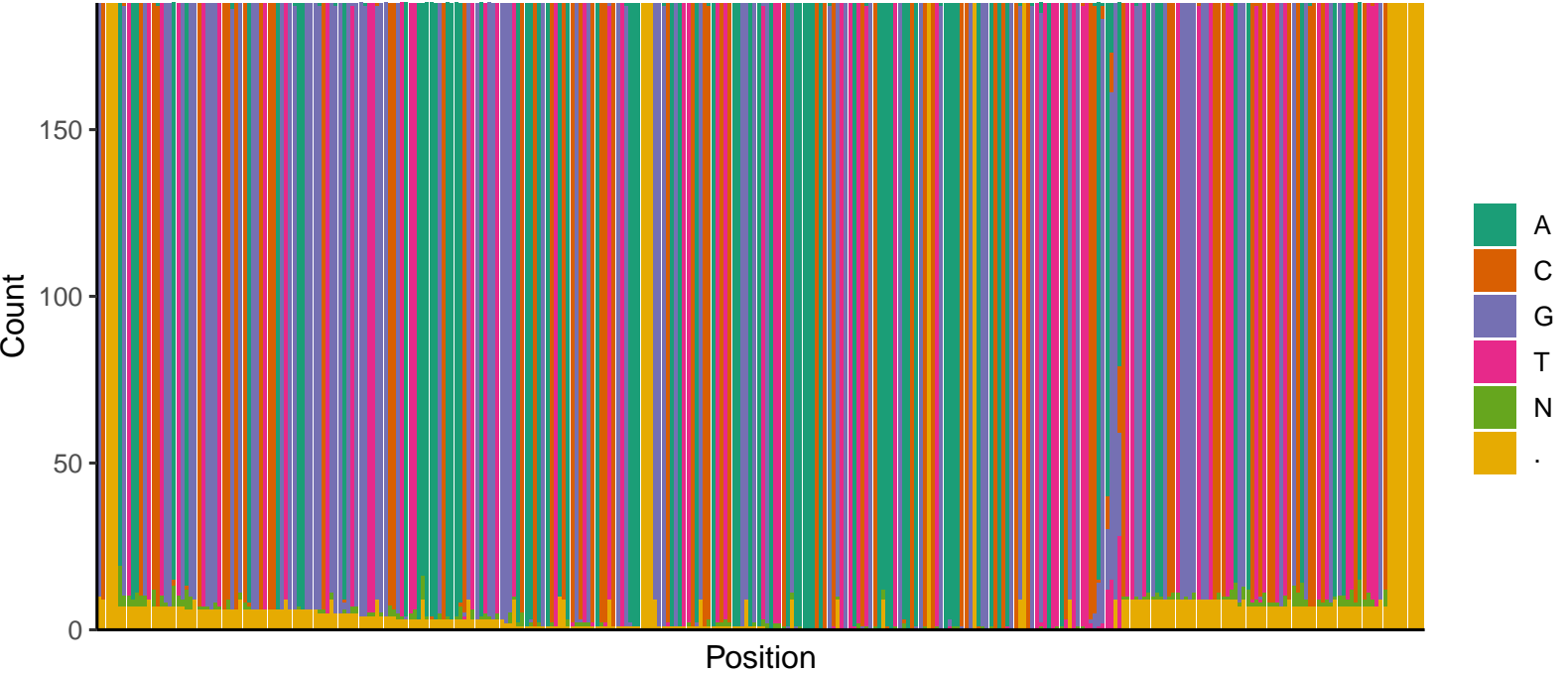


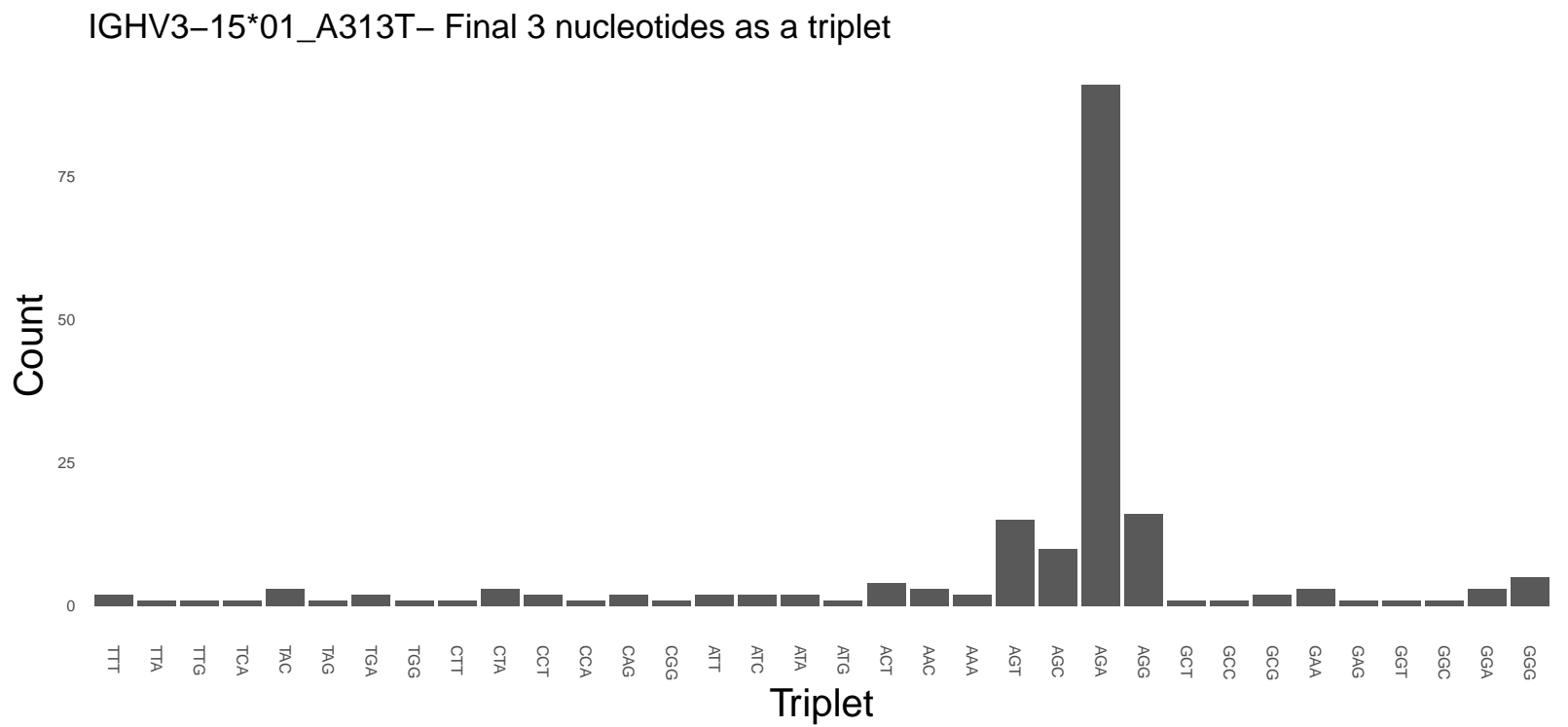
Gene IGHV3-15\*01\_A313T



Gene IGHV3-15\*01\_A313T

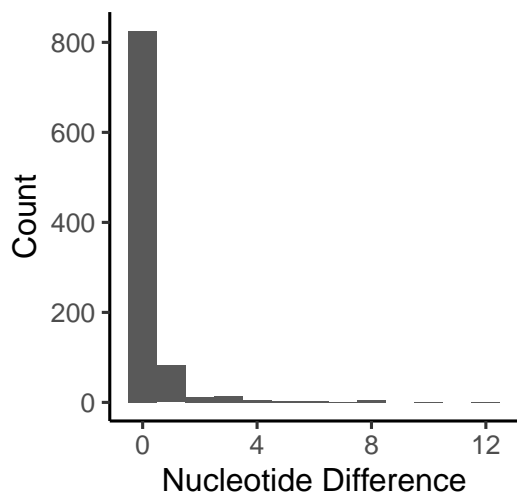


IGHV3-15\*01\_A313T- Final 3 nucleotides as a triplet



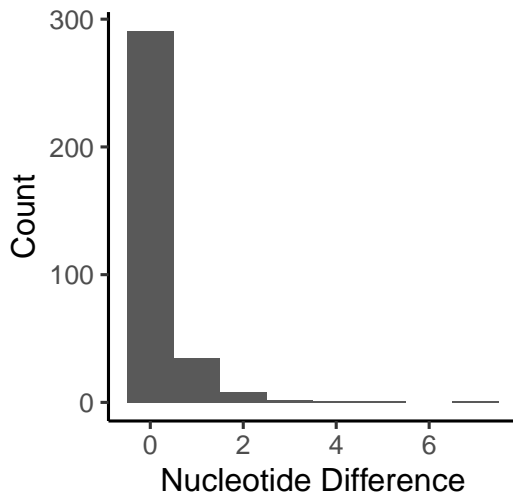
### IGHV1–2\*02

957 sequences assigned  
826 (86.3%) exact matches, in which:  
786 unique CDR3  
6 unique J



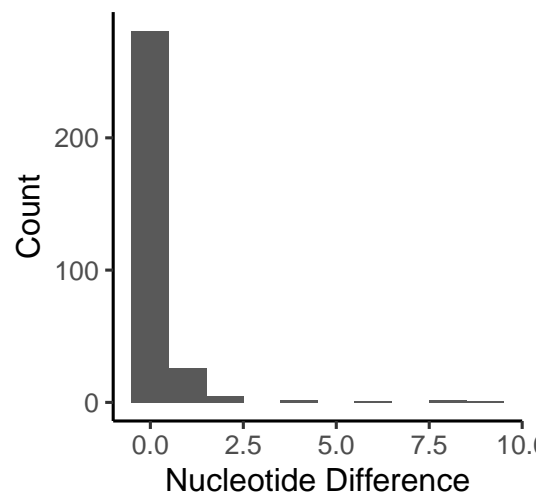
### IGHV1–8\*03

339 sequences assigned  
291 (85.8%) exact matches, in which:  
277 unique CDR3  
6 unique J



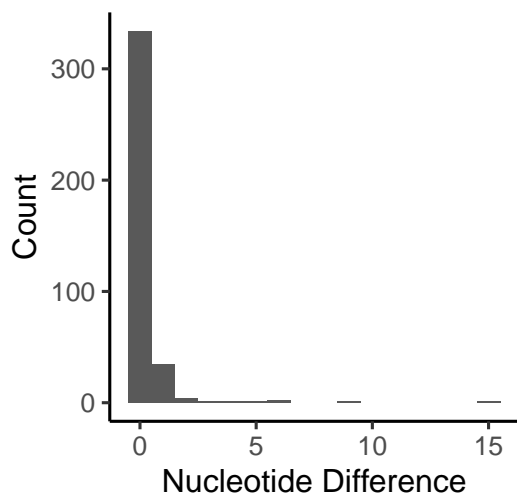
### IGHV1–24\*01

318 sequences assigned  
281 (88.4%) exact matches, in which:  
262 unique CDR3  
6 unique J



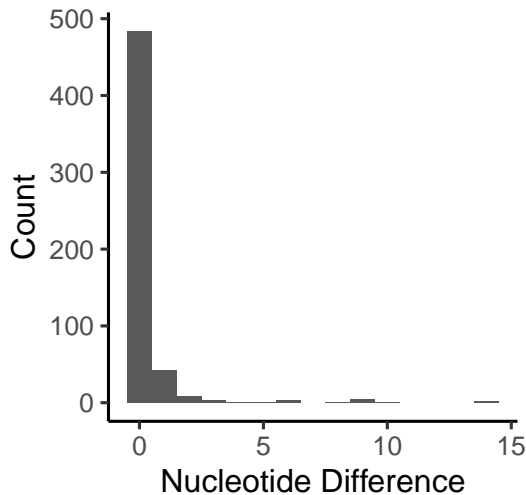
### IGHV1–2\*04

380 sequences assigned  
334 (87.9%) exact matches, in which:  
318 unique CDR3  
6 unique J



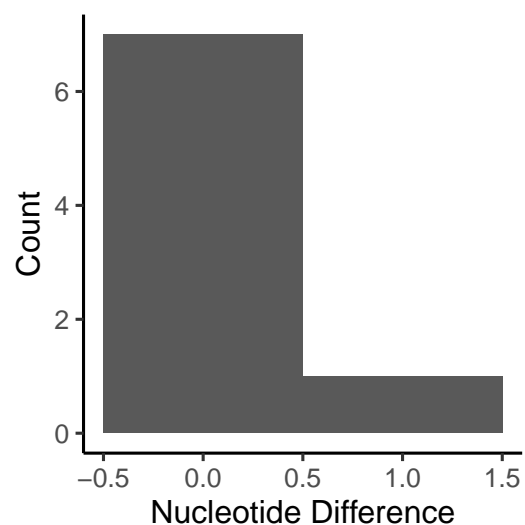
### IGHV1–18\*01

550 sequences assigned  
484 (88%) exact matches, in which:  
459 unique CDR3  
6 unique J



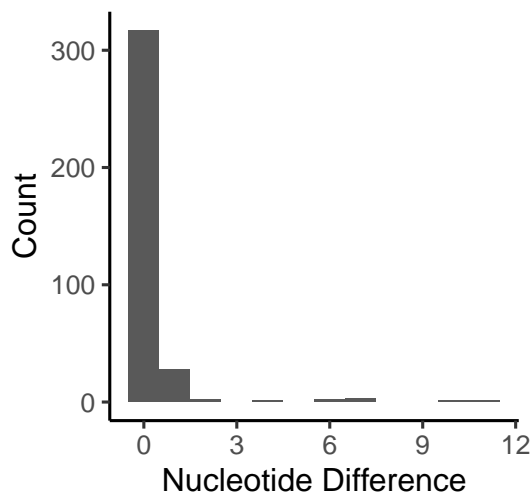
### IGHV1–45\*02

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



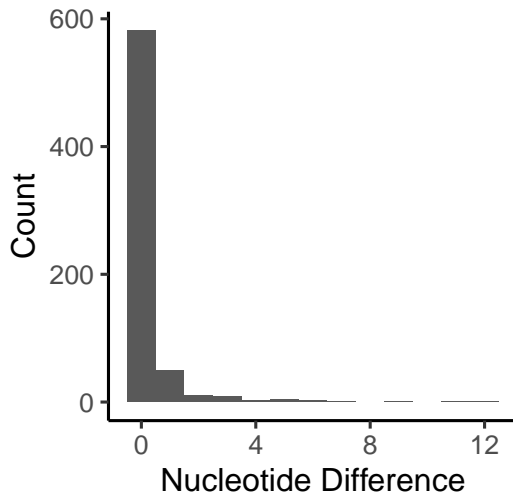
### IGHV1–3\*01

356 sequences assigned  
317 (89%) exact matches, in which:  
305 unique CDR3  
6 unique J



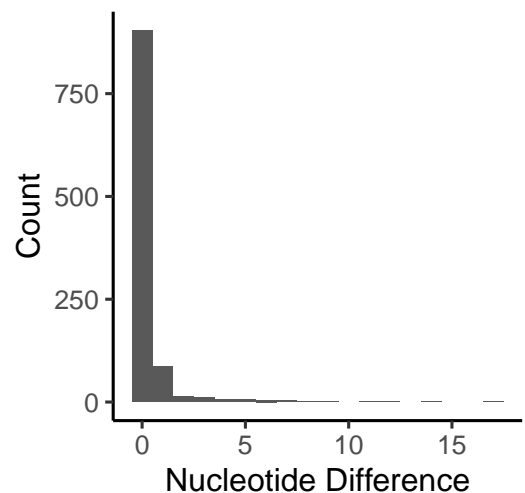
### IGHV1–18\*04

661 sequences assigned  
582 (88%) exact matches, in which:  
551 unique CDR3  
6 unique J



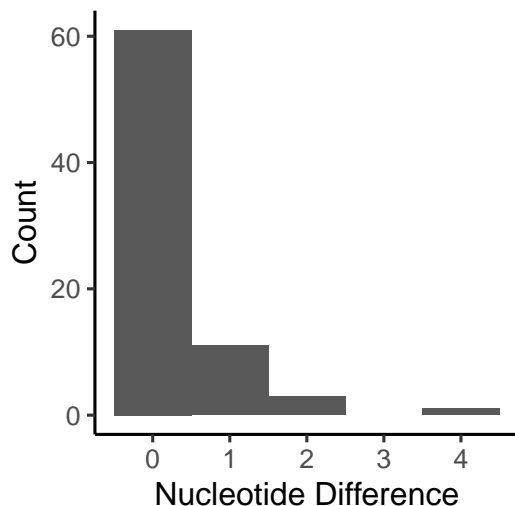
### IGHV1–46\*01

1046 sequences assigned  
904 (86.4%) exact matches, in which:  
866 unique CDR3  
6 unique J



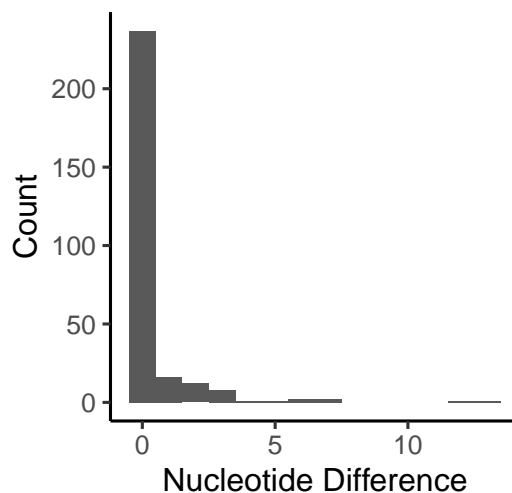
### IGHV1-58\*02

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



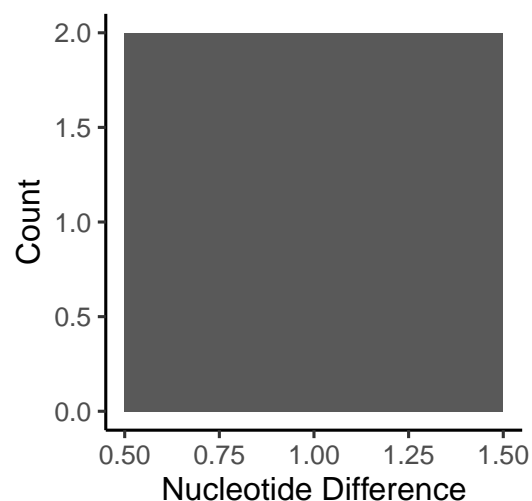
### IGHV2-5\*02

281 sequences assigned  
237 (84.3%) exact matches, in which:  
224 unique CDR3  
6 unique J



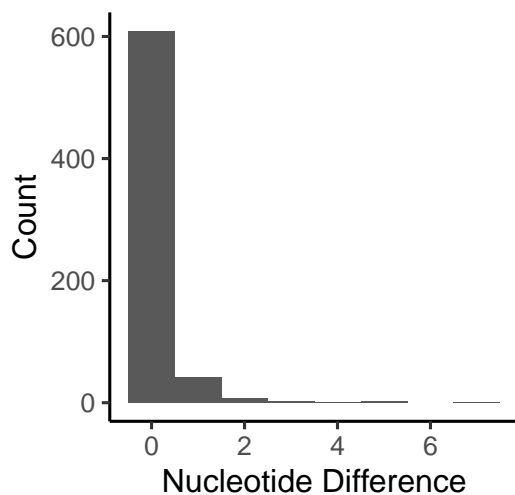
### IGHV2-70D\*04

2 sequences assigned  
No exact matches.



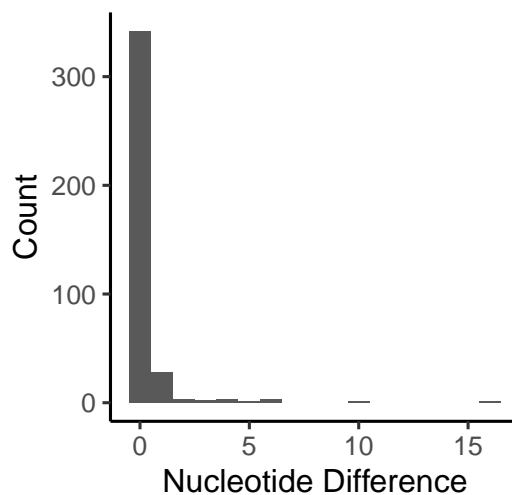
### IGHV1-69\*02

665 sequences assigned  
609 (91.6%) exact matches, in which:  
576 unique CDR3  
6 unique J



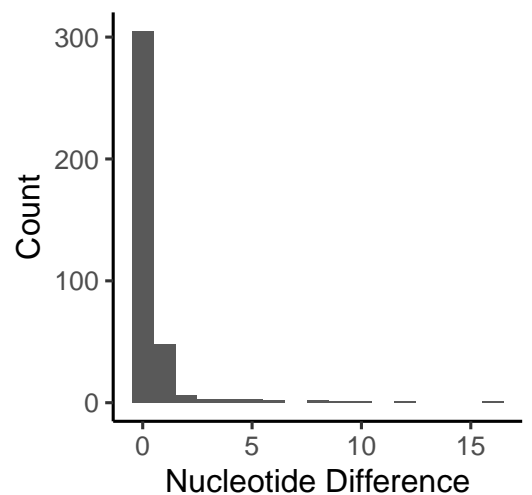
### IGHV2-26\*01

384 sequences assigned  
342 (89.1%) exact matches, in which:  
337 unique CDR3  
6 unique J



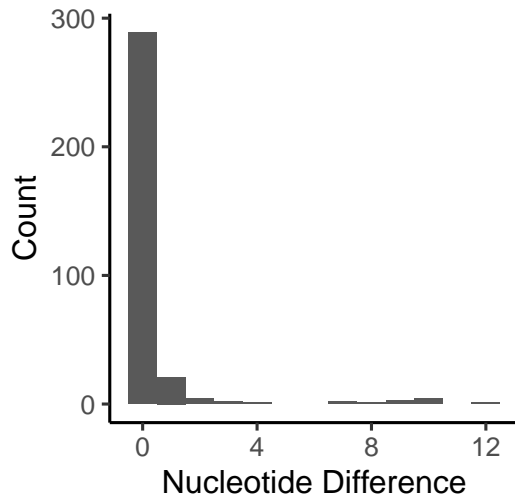
### IGHV3-7\*01

377 sequences assigned  
305 (80.9%) exact matches, in which:  
294 unique CDR3  
6 unique J



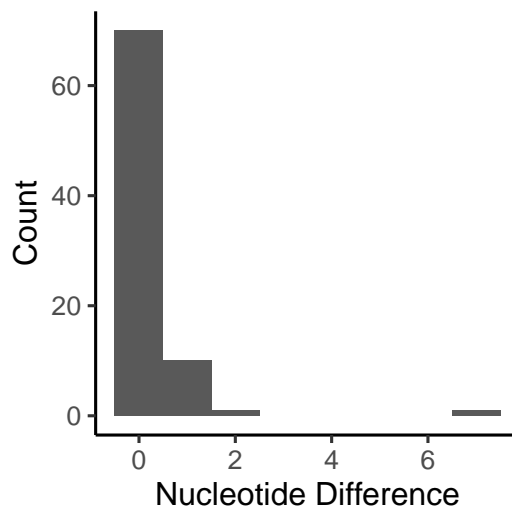
### IGHV2-5\*01

328 sequences assigned  
289 (88.1%) exact matches, in which:  
273 unique CDR3  
6 unique J



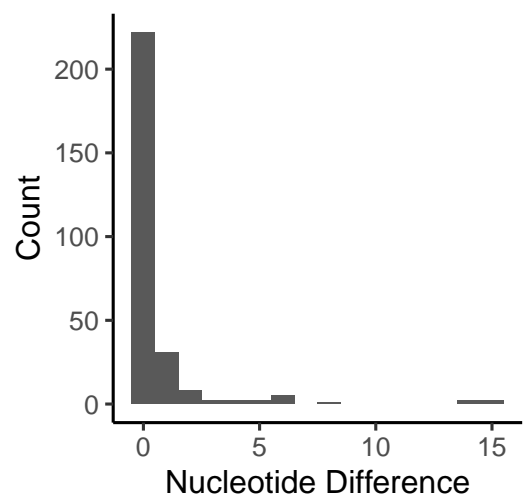
### IGHV2-70\*01

82 sequences assigned  
70 (85.4%) exact matches, in which:  
70 unique CDR3  
5 unique J



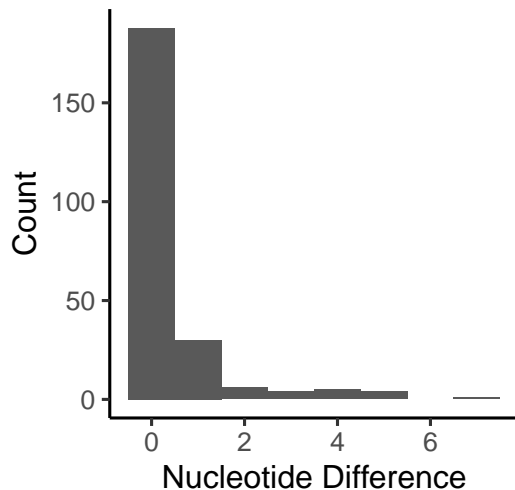
### IGHV3-7\*03

277 sequences assigned  
222 (80.1%) exact matches, in which:  
216 unique CDR3  
6 unique J



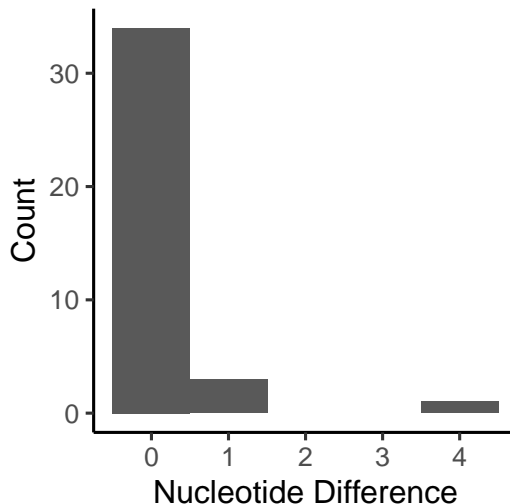
### IGHV3-9\*03

238 sequences assigned  
188 (79%) exact matches, in which:  
177 unique CDR3  
6 unique J



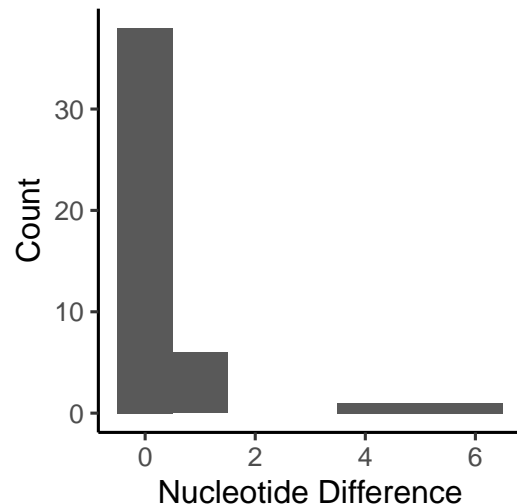
### IGHV3-13\*05

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



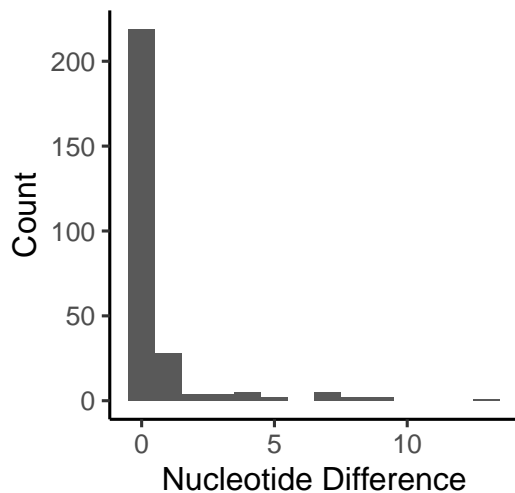
### IGHV3-20\*01

47 sequences assigned  
38 (80.9%) exact matches, in which:  
34 unique CDR3  
5 unique J



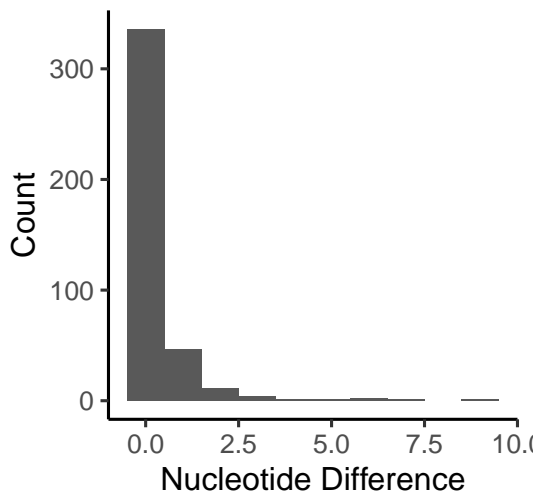
### IGHV3-11\*04

272 sequences assigned  
219 (80.5%) exact matches, in which:  
211 unique CDR3  
6 unique J



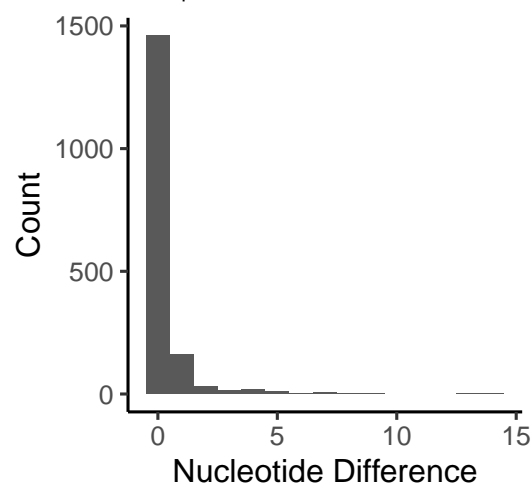
### IGHV3-15\*01

404 sequences assigned  
336 (83.2%) exact matches, in which:  
320 unique CDR3  
6 unique J



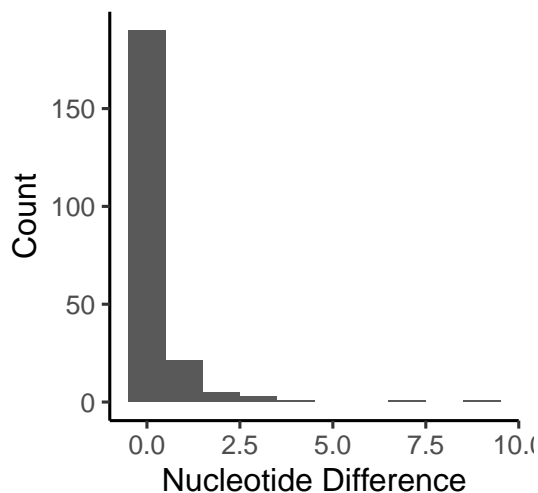
### IGHV3-21\*01

1710 sequences assigned  
1460 (85.4%) exact matches, in which:  
1383 unique CDR3  
6 unique J



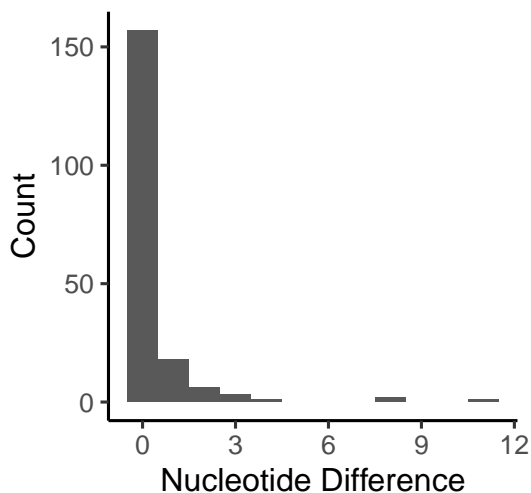
### IGHV3-11\*06

222 sequences assigned  
190 (85.6%) exact matches, in which:  
182 unique CDR3  
6 unique J



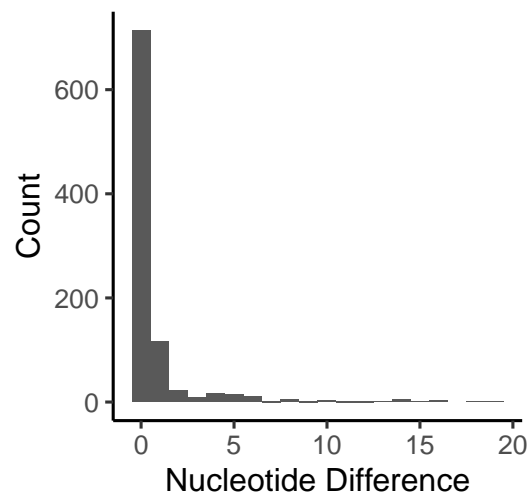
### IGHV3-15\*01\_A313T

188 sequences assigned  
157 (83.5%) exact matches, in which:  
150 unique CDR3  
6 unique J



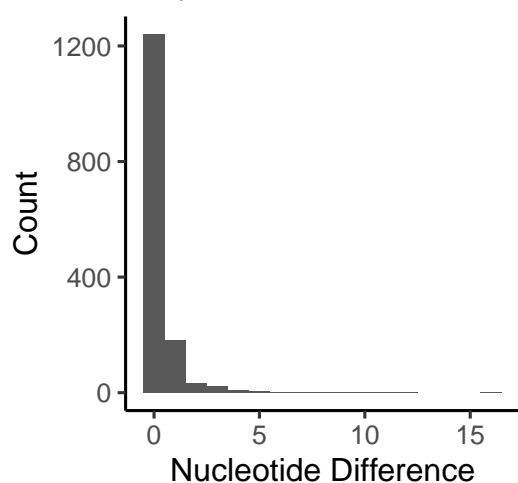
### IGHV3-23\*04

931 sequences assigned  
714 (76.7%) exact matches, in which:  
683 unique CDR3  
6 unique J



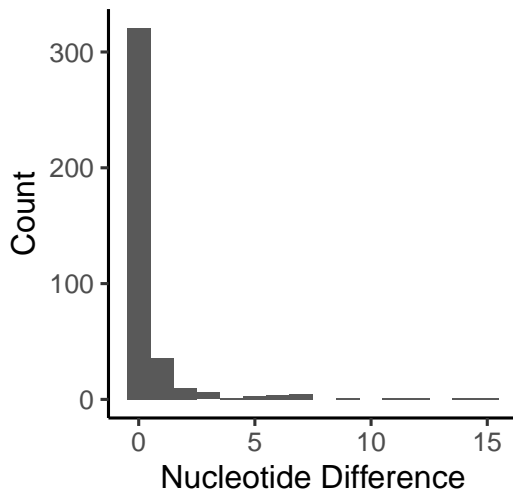
### IGHV3-30-3\*01

1505 sequences assigned  
1240 (82.4%) exact matches, in which:  
1184 unique CDR3  
6 unique J



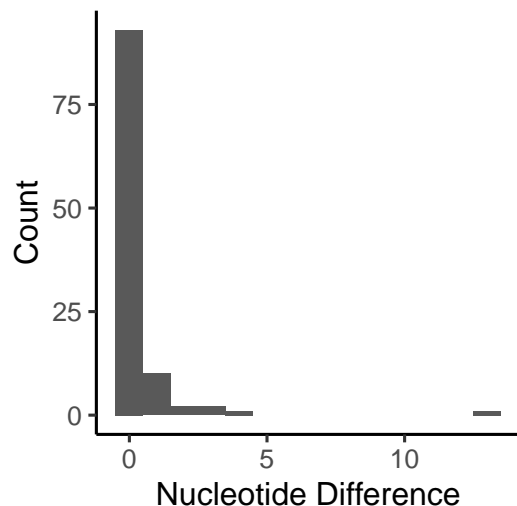
### IGHV3-48\*02

391 sequences assigned  
321 (82.1%) exact matches, in which:  
301 unique CDR3  
6 unique J



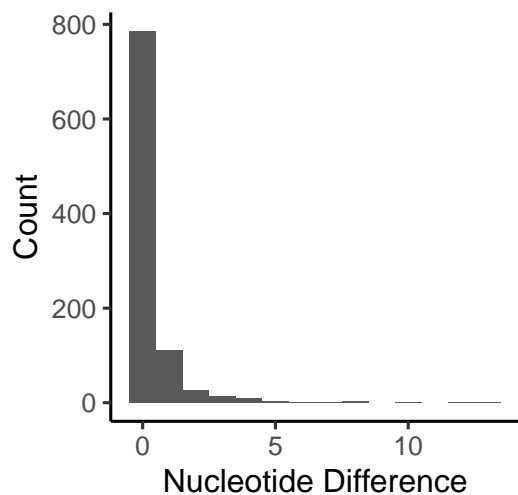
### IGHV3-49\*05

109 sequences assigned  
93 (85.3%) exact matches, in which:  
91 unique CDR3  
6 unique J



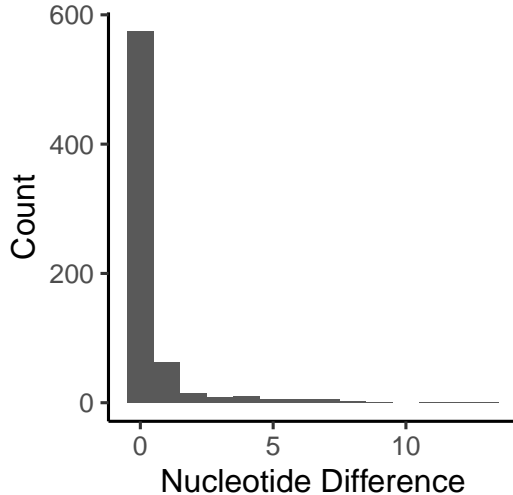
### IGHV3-33\*01

957 sequences assigned  
786 (82.1%) exact matches, in which:  
738 unique CDR3  
6 unique J



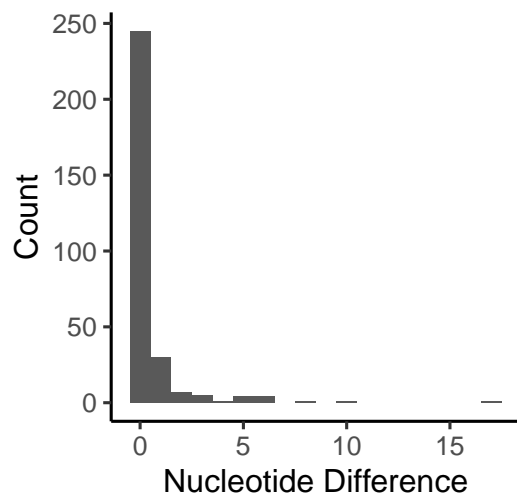
### IGHV3-48\*03

694 sequences assigned  
575 (82.9%) exact matches, in which:  
545 unique CDR3  
6 unique J



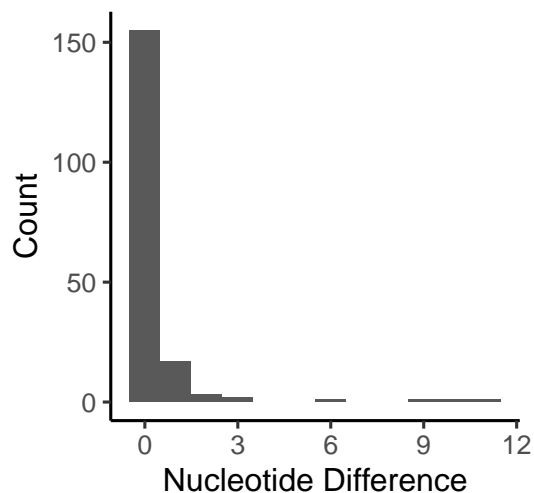
### IGHV3-53\*01

300 sequences assigned  
245 (81.7%) exact matches, in which:  
238 unique CDR3  
6 unique J



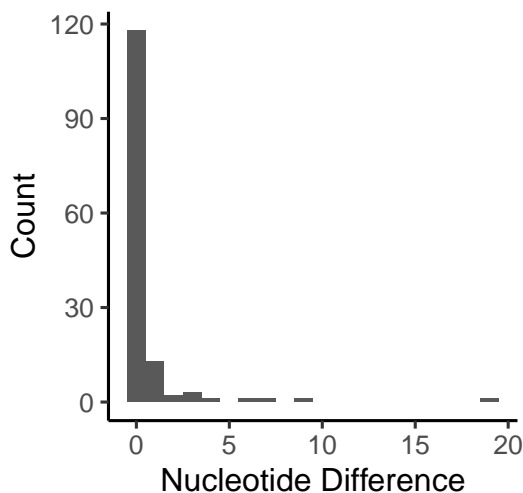
### IGHV3-43\*01

181 sequences assigned  
155 (85.6%) exact matches, in which:  
147 unique CDR3  
6 unique J



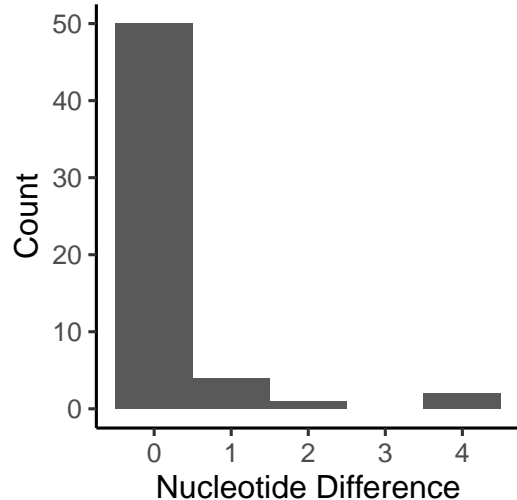
### IGHV3-49\*03

141 sequences assigned  
118 (83.7%) exact matches, in which:  
114 unique CDR3  
6 unique J



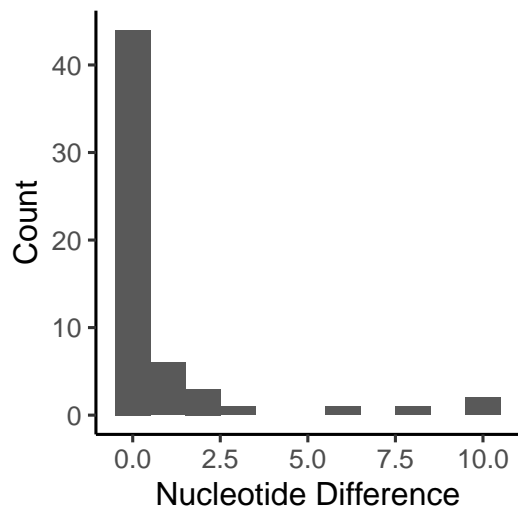
### IGHV3-53\*04

57 sequences assigned  
50 (87.7%) exact matches, in which:  
45 unique CDR3  
6 unique J



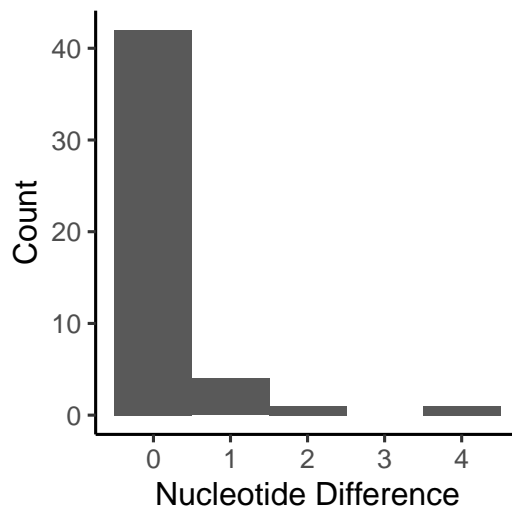
### IGHV3-64\*01

58 sequences assigned  
44 (75.9%) exact matches, in which:  
43 unique CDR3  
5 unique J



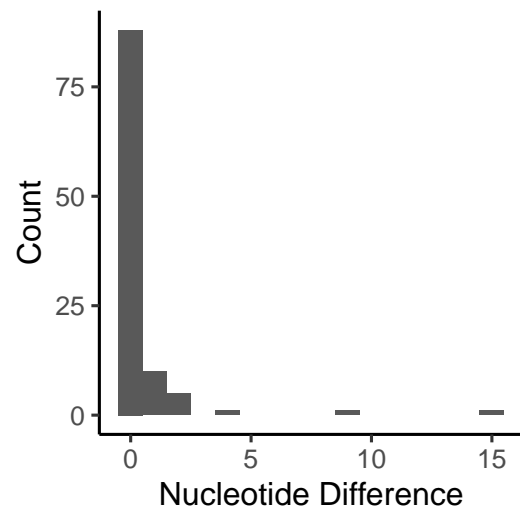
### IGHV3-73\*01

48 sequences assigned  
42 (87.5%) exact matches, in which:  
41 unique CDR3  
5 unique J



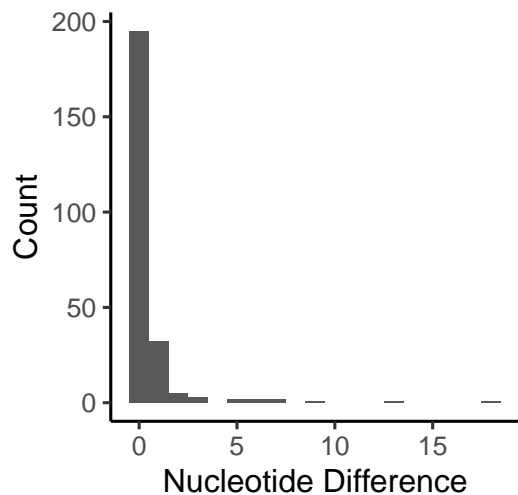
### IGHV3-43D\*04

106 sequences assigned  
88 (83%) exact matches, in which:  
84 unique CDR3  
4 unique J



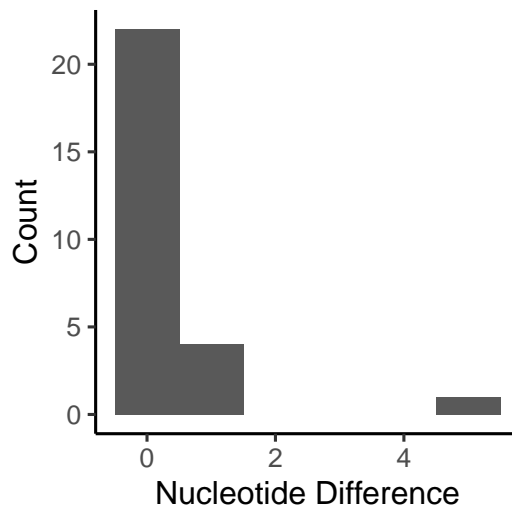
### IGHV3-66\*02

244 sequences assigned  
195 (79.9%) exact matches, in which:  
182 unique CDR3  
6 unique J



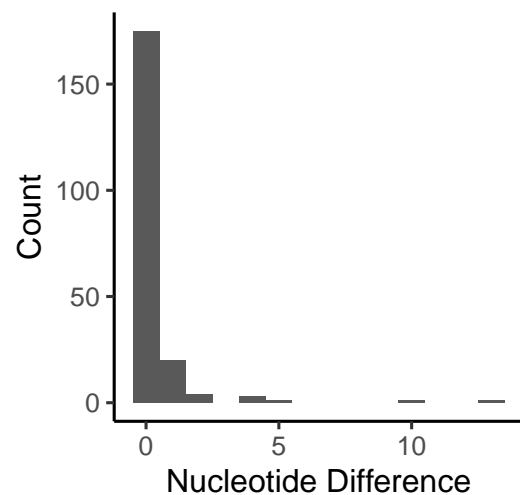
### IGHV3-73\*02

27 sequences assigned  
22 (81.5%) exact matches, in which:  
21 unique CDR3  
4 unique J



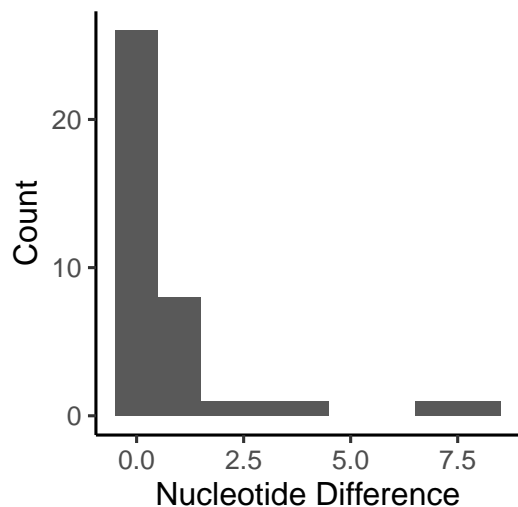
### IGHV3-64D\*06

205 sequences assigned  
175 (85.4%) exact matches, in which:  
160 unique CDR3  
6 unique J



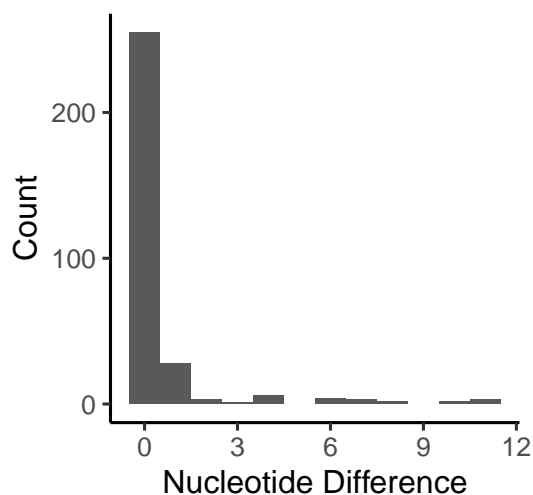
### IGHV3-72\*01

40 sequences assigned  
26 (65%) exact matches, in which:  
24 unique CDR3  
5 unique J



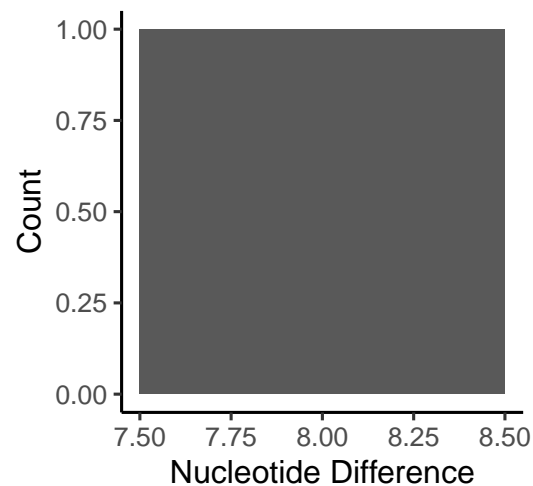
### IGHV3-74\*01

307 sequences assigned  
255 (83.1%) exact matches, in which:  
244 unique CDR3  
6 unique J



### IGHV3-NL1\*01

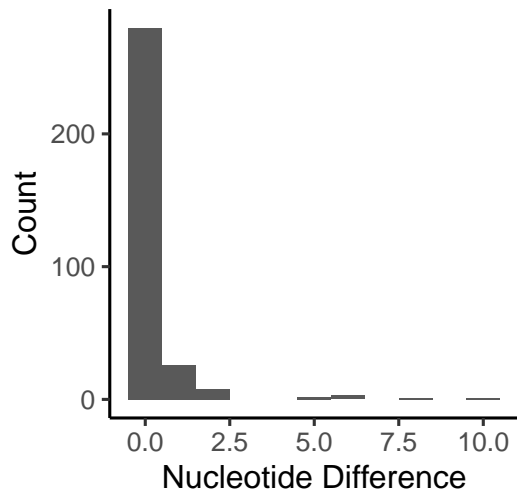
1 sequences assigned  
No exact matches.





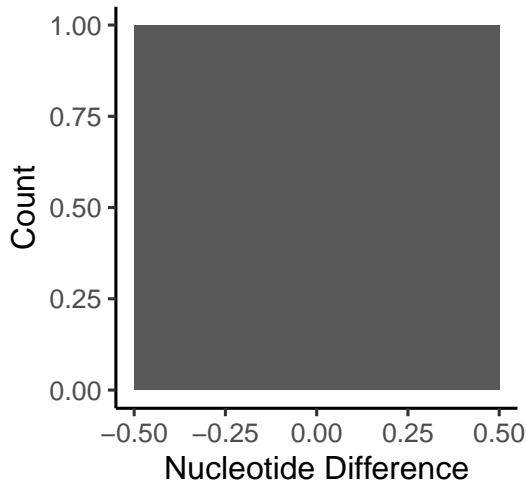
### IGHV4-4\*02

321 sequences assigned  
280 (87.2%) exact matches, in which:  
263 unique CDR3  
6 unique J



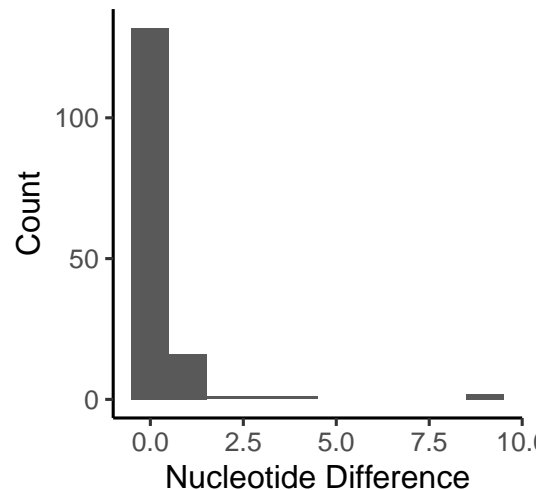
### IGHV4-28\*07

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



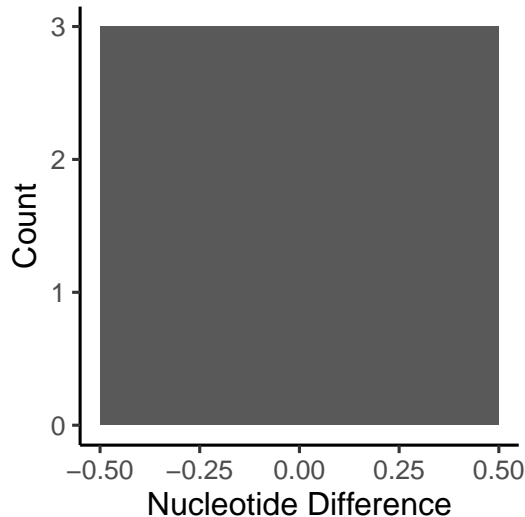
### IGHV4-30-4\*07

153 sequences assigned  
132 (86.3%) exact matches, in which:  
123 unique CDR3  
5 unique J



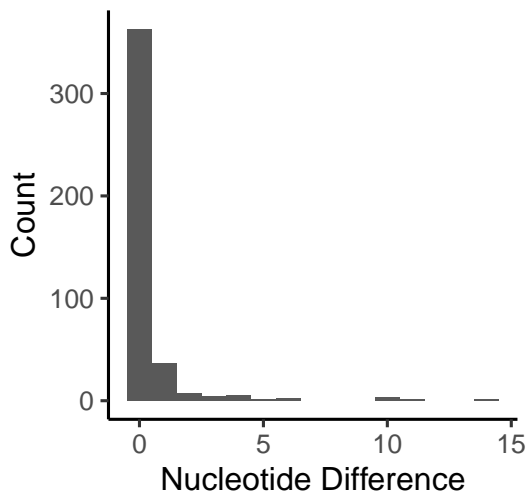
### IGHV4-28\*01

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



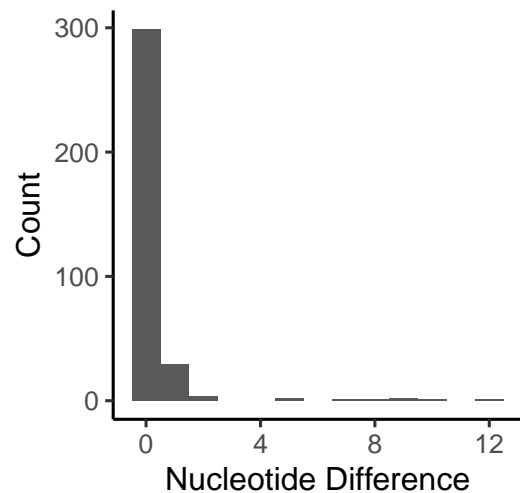
### IGHV4-30-2\*01

424 sequences assigned  
363 (85.6%) exact matches, in which:  
348 unique CDR3  
6 unique J



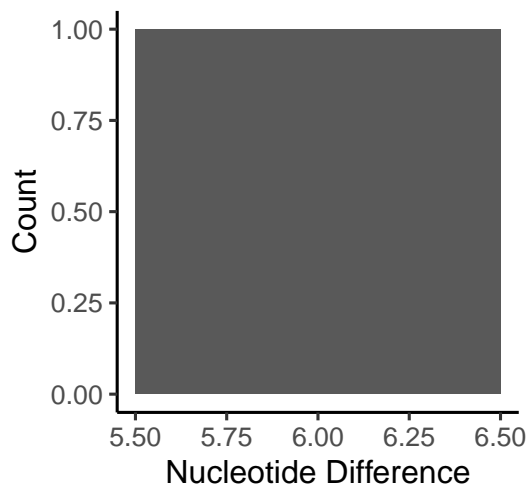
### IGHV4-30-4\*08

340 sequences assigned  
299 (87.9%) exact matches, in which:  
284 unique CDR3  
6 unique J



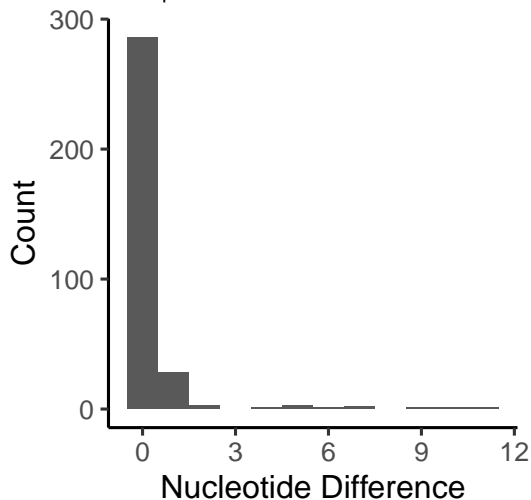
### IGHV4-28\*03

1 sequences assigned  
No exact matches.



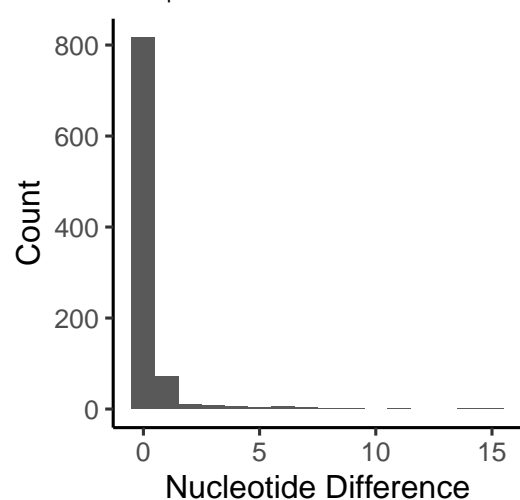
### IGHV4-30-4\*01

328 sequences assigned  
286 (87.2%) exact matches, in which:  
273 unique CDR3  
6 unique J



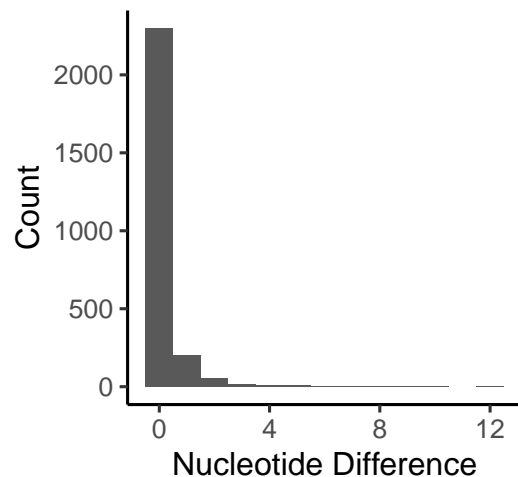
### IGHV4-31\*03

929 sequences assigned  
817 (87.9%) exact matches, in which:  
781 unique CDR3  
6 unique J



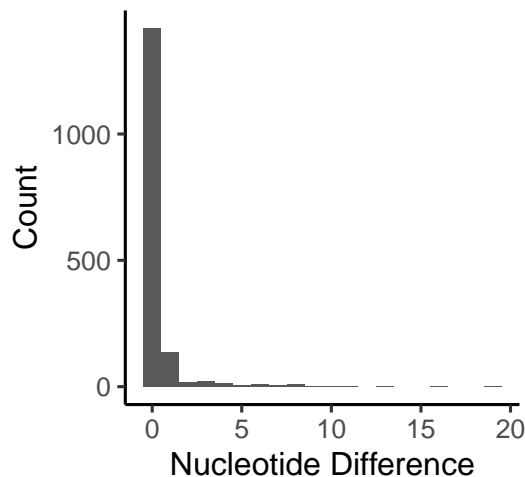
### IGHV4-34\*01

2599 sequences assigned  
2298 (88.4%) exact matches, in which:  
2161 unique CDR3  
6 unique J



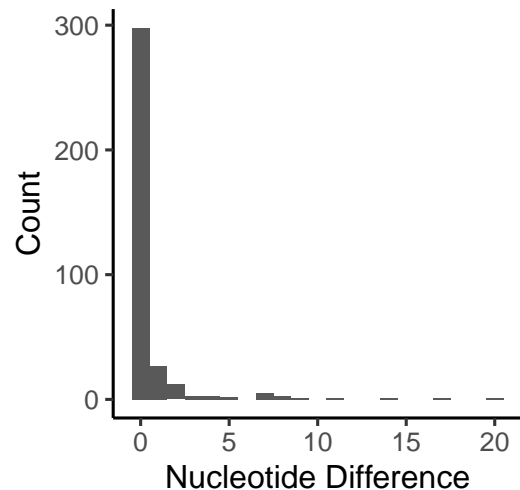
### IGHV4-39\*07

1638 sequences assigned  
1418 (86.6%) exact matches, in which:  
1323 unique CDR3  
6 unique J



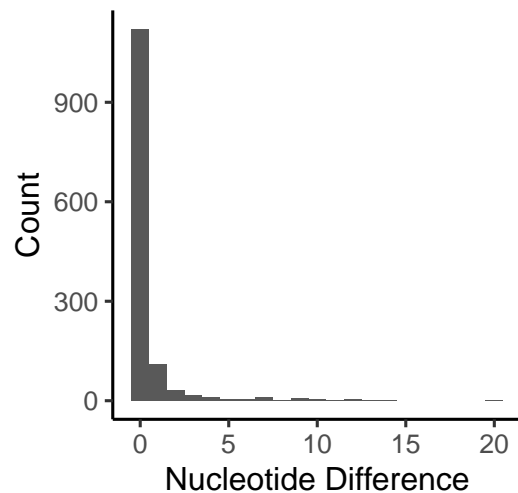
### IGHV4-59\*12

358 sequences assigned  
298 (83.2%) exact matches, in which:  
278 unique CDR3  
6 unique J



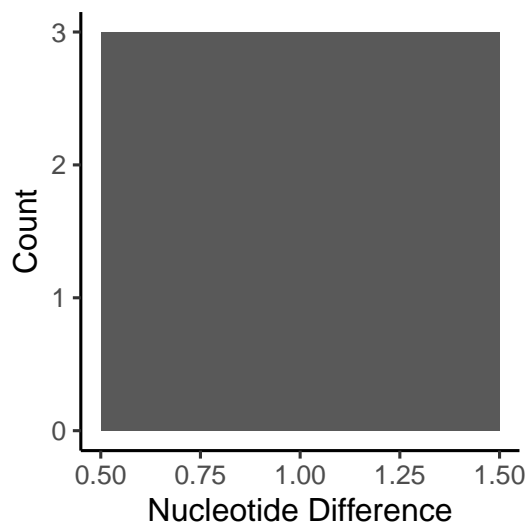
### IGHV4-38-2\*01

1340 sequences assigned  
1121 (83.7%) exact matches, in which:  
1026 unique CDR3  
6 unique J



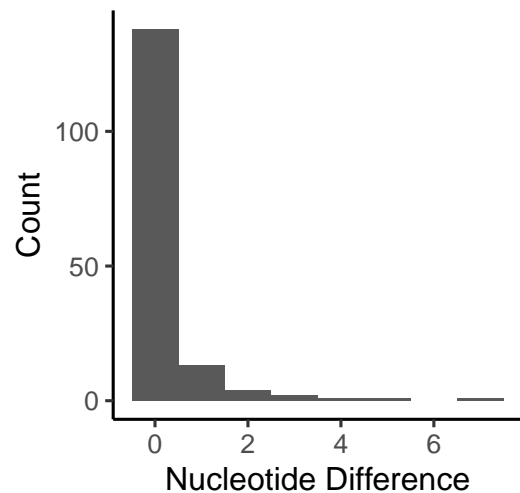
### IGHV4-55\*08

3 sequences assigned  
No exact matches.



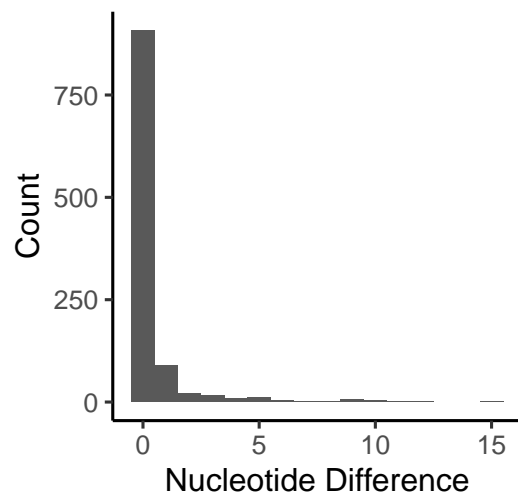
### IGHV4-61\*01

160 sequences assigned  
138 (86.2%) exact matches, in which:  
135 unique CDR3  
5 unique J



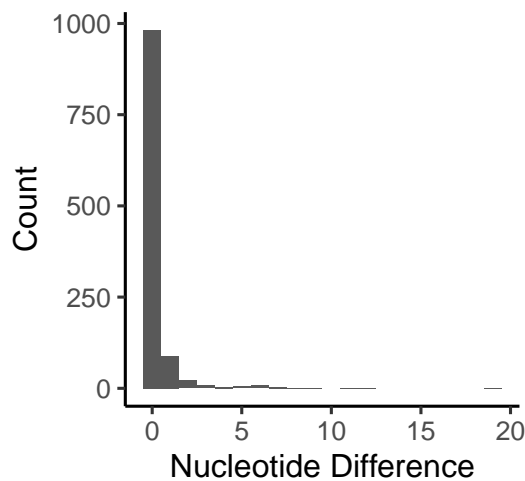
### IGHV4-39\*01

1074 sequences assigned  
908 (84.5%) exact matches, in which:  
865 unique CDR3  
6 unique J



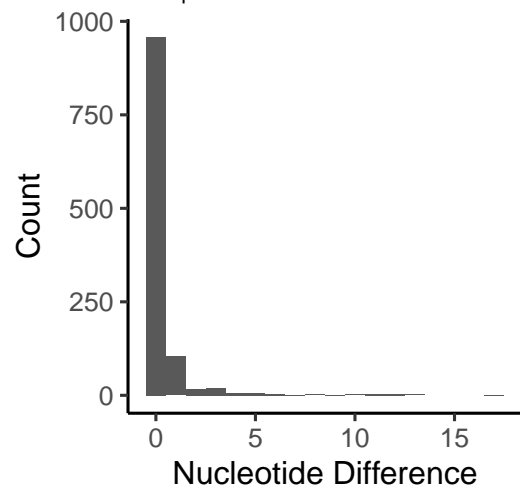
### IGHV4-59\*01

1129 sequences assigned  
982 (87%) exact matches, in which:  
934 unique CDR3  
6 unique J



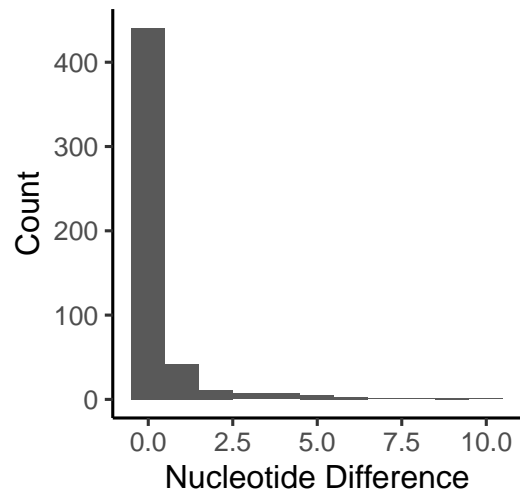
### IGHV4-61\*02

1130 sequences assigned  
958 (84.8%) exact matches, in which:  
909 unique CDR3  
6 unique J



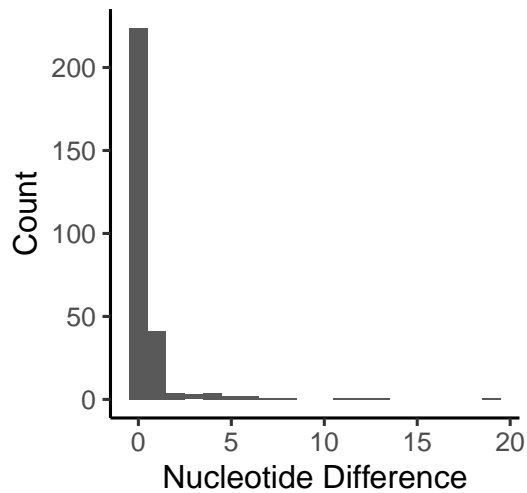
### IGHV5-10-1\*03

522 sequences assigned  
441 (84.5%) exact matches, in which:  
418 unique CDR3  
6 unique J



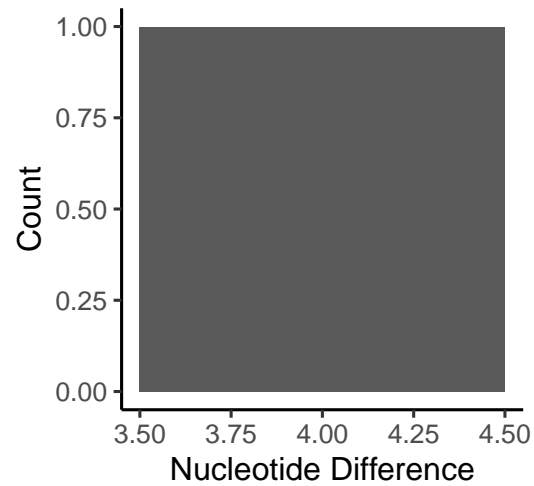
### IGHV6-1\*01

286 sequences assigned  
224 (78.3%) exact matches, in which:  
215 unique CDR3  
6 unique J



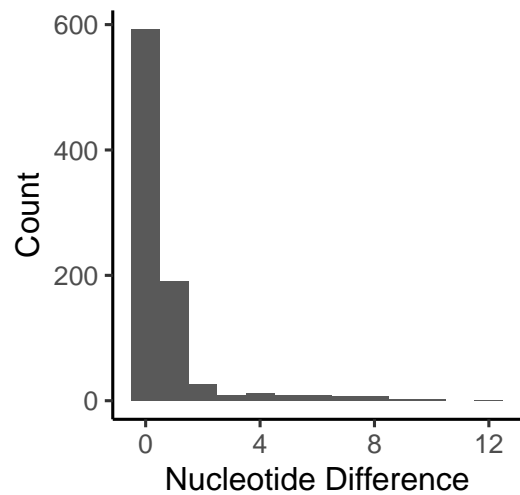
### IGHV7-81\*01

1 sequences assigned  
No exact matches.



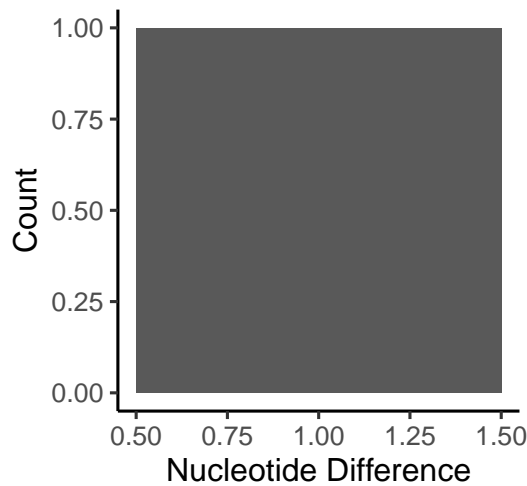
### IGHV5-51\*01

868 sequences assigned  
593 (68.3%) exact matches, in which:  
562 unique CDR3  
6 unique J



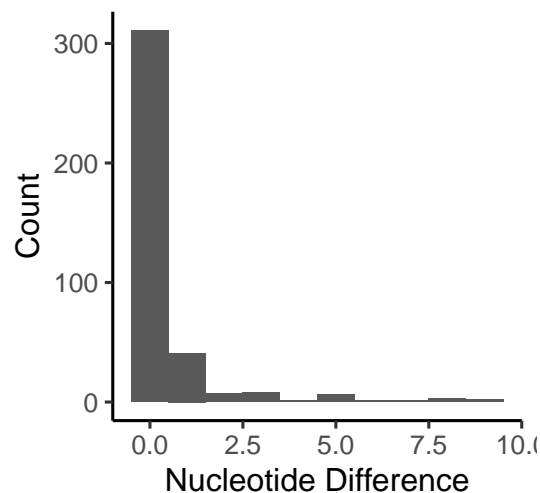
### IGHV3/OR16-9\*01

1 sequences assigned  
No exact matches.



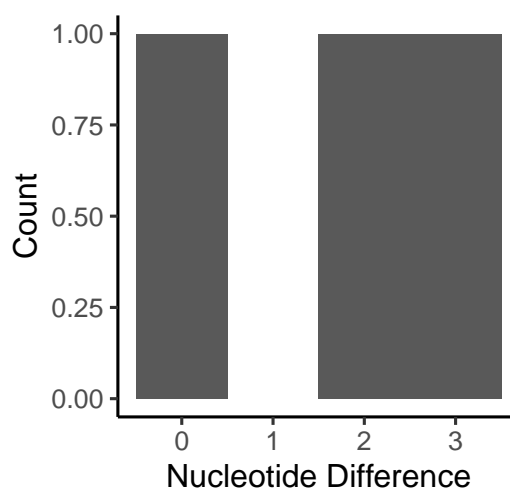
### IGHV5-51\*03

382 sequences assigned  
311 (81.4%) exact matches, in which:  
294 unique CDR3  
6 unique J

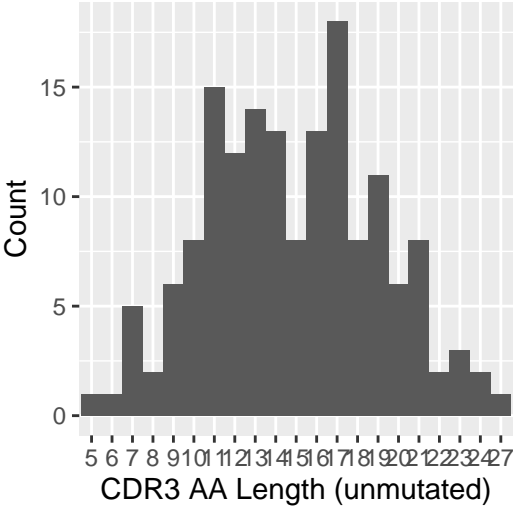


### IGHV7-4-1\*01

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



IGHV3-15\*01\_A313T





Warning – no inferred sequences found.

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