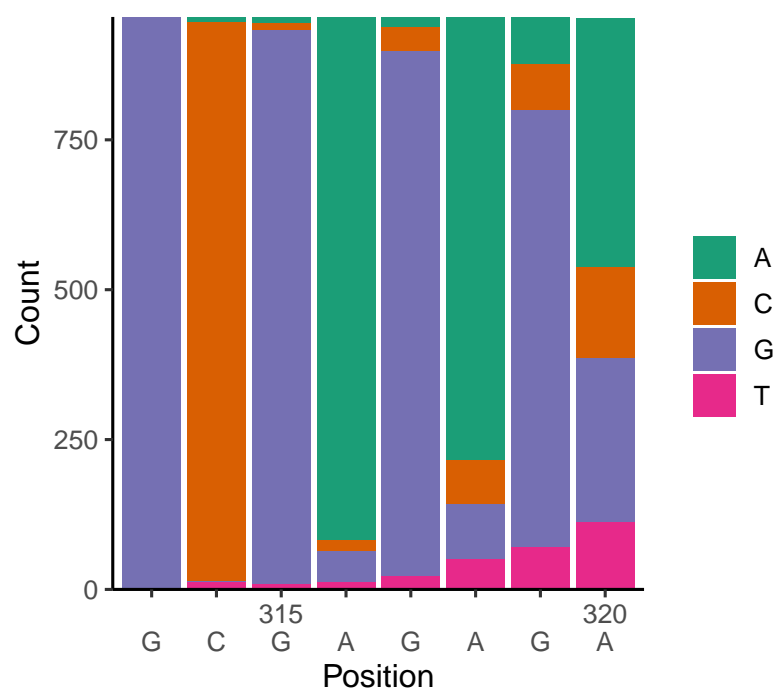


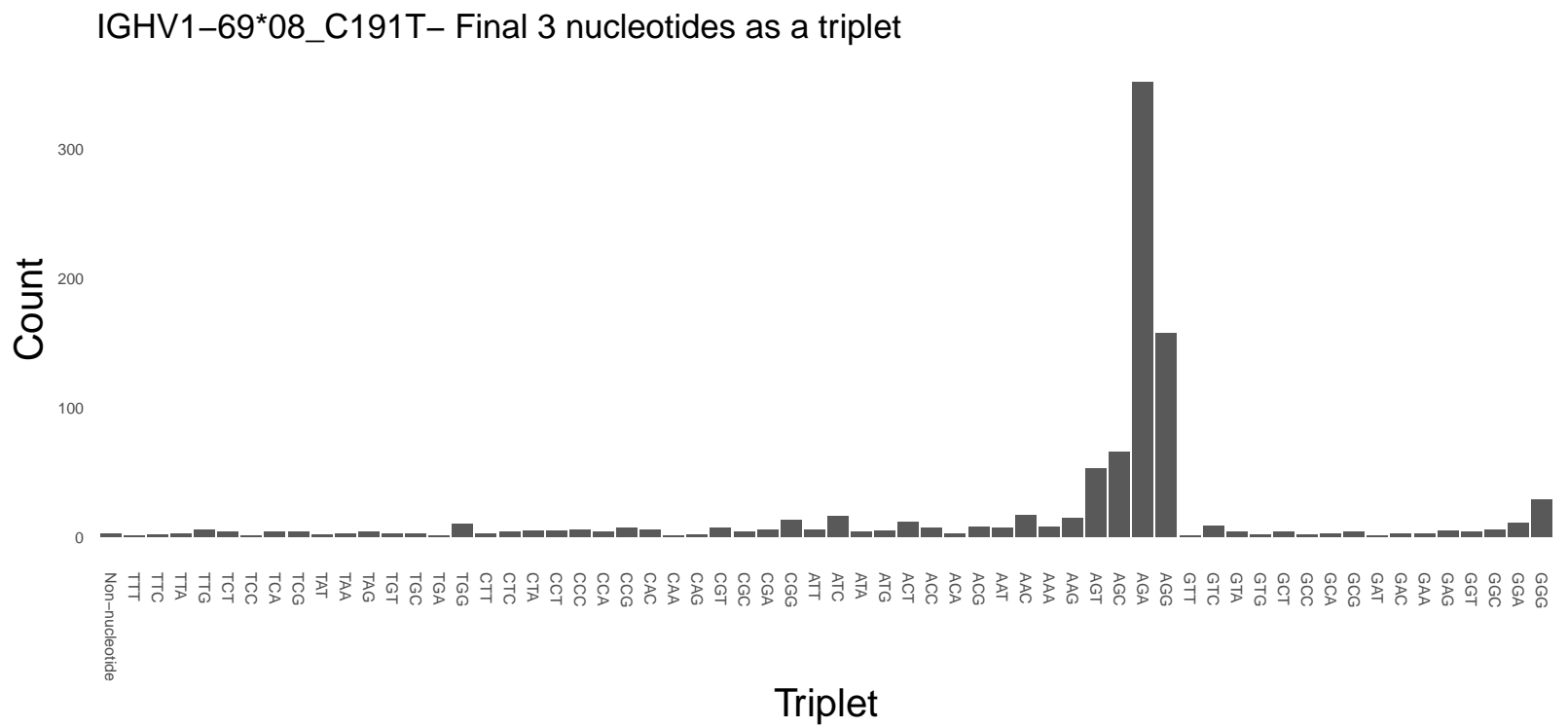
# Gene IGHV1-69\*08\_C191T



Gene IGHV1-69\*08\_C191T

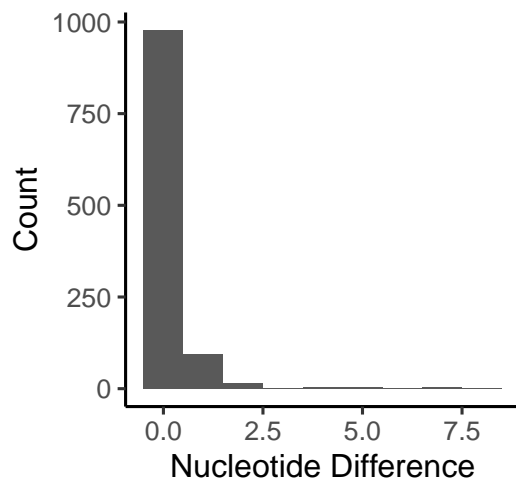


IGHV1-69\*08\_C191T- Final 3 nucleotides as a triplet



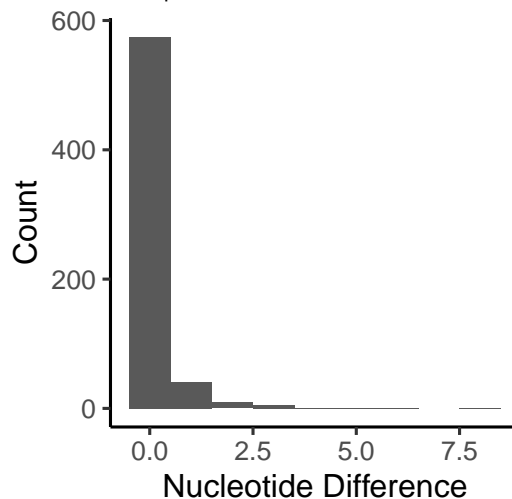
### IGHV1-2\*02

1107 sequences assigned  
977 (88.3%) exact matches, in which:  
919 unique CDR3  
6 unique J



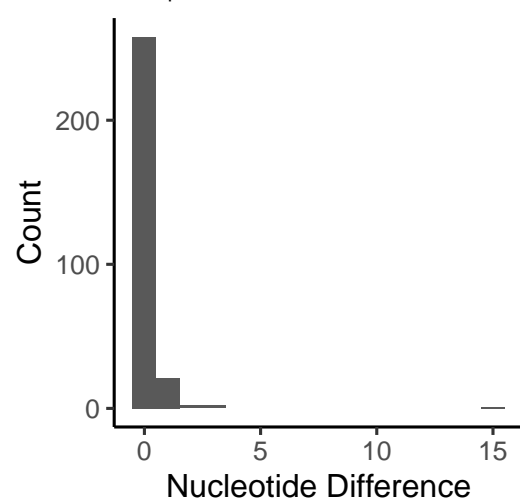
### IGHV1-8\*01

634 sequences assigned  
575 (90.7%) exact matches, in which:  
555 unique CDR3  
7 unique J



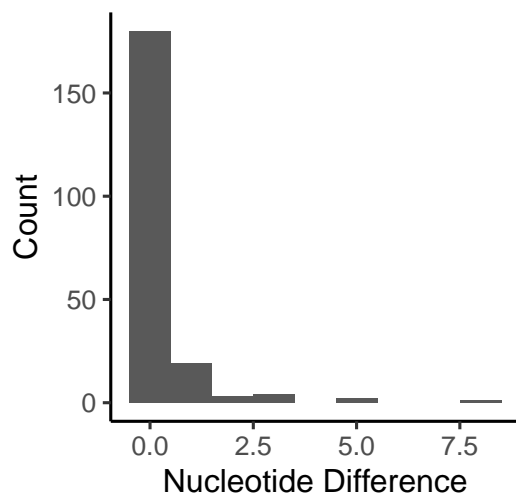
### IGHV1-24\*01

284 sequences assigned  
258 (90.8%) exact matches, in which:  
244 unique CDR3  
7 unique J



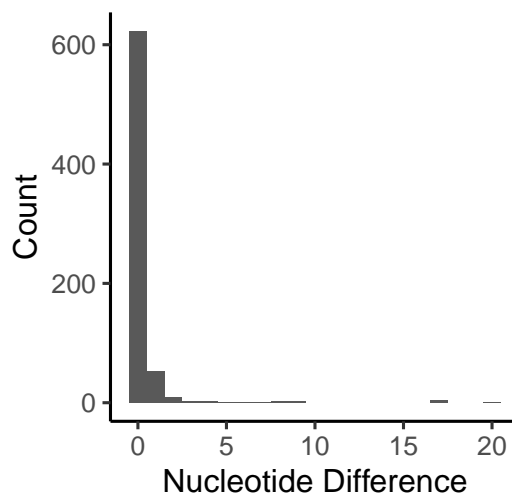
### IGHV1-2\*04

209 sequences assigned  
180 (86.1%) exact matches, in which:  
170 unique CDR3  
5 unique J



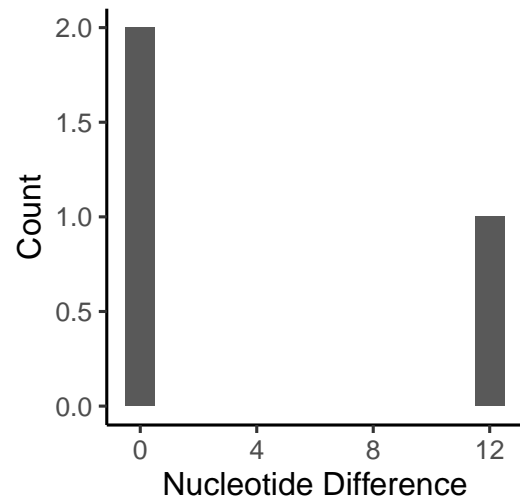
### IGHV1-18\*01

703 sequences assigned  
623 (88.6%) exact matches, in which:  
605 unique CDR3  
7 unique J



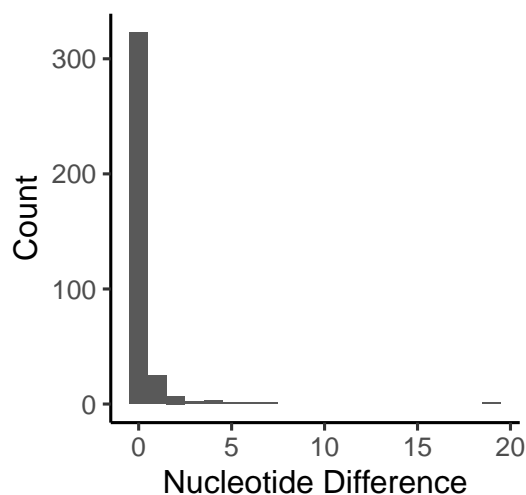
### IGHV1-45\*02

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



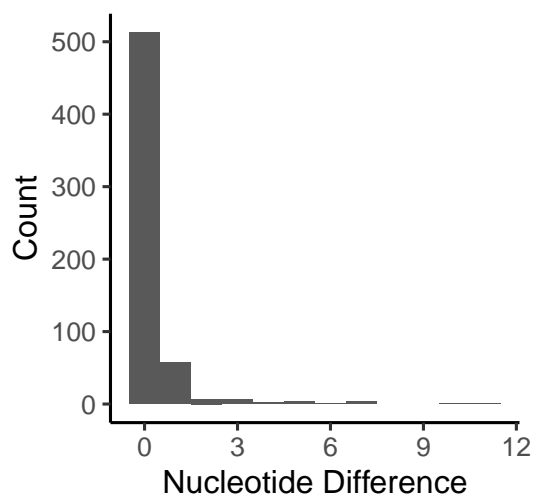
### IGHV1-3\*01

368 sequences assigned  
323 (87.8%) exact matches, in which:  
304 unique CDR3  
6 unique J



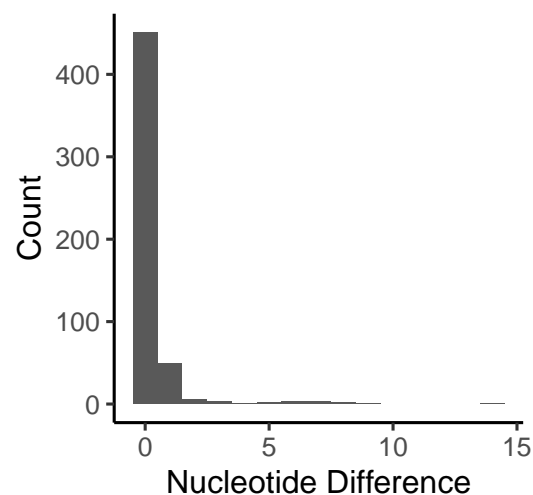
### IGHV1-18\*04

595 sequences assigned  
513 (86.2%) exact matches, in which:  
493 unique CDR3  
7 unique J



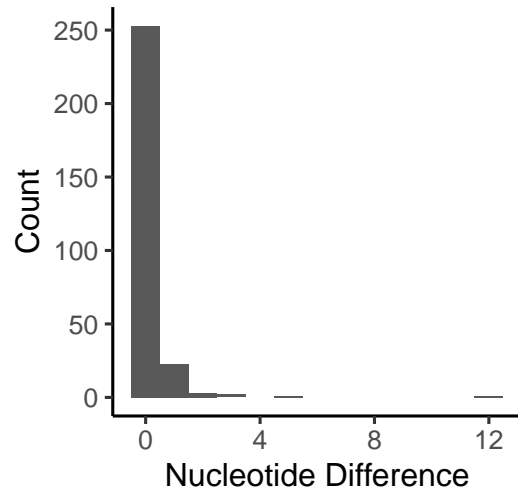
### IGHV1-46\*01

521 sequences assigned  
451 (86.6%) exact matches, in which:  
437 unique CDR3  
6 unique J



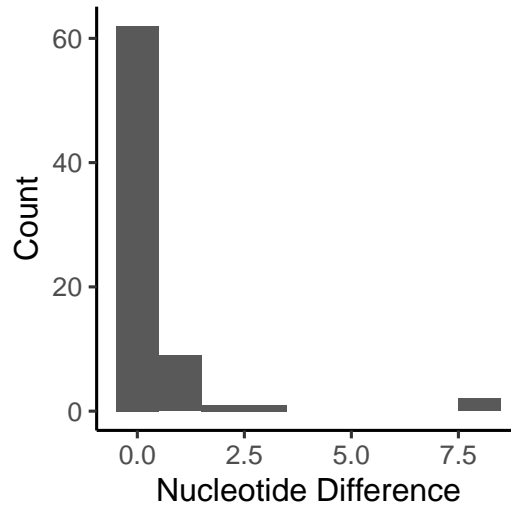
### IGHV1-46\*03

283 sequences assigned  
253 (89.4%) exact matches, in which:  
243 unique CDR3  
6 unique J



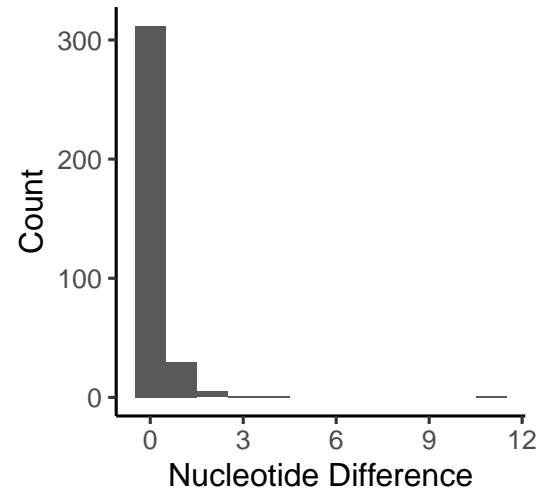
### IGHV1-69-2\*01

76 sequences assigned  
62 (81.6%) exact matches, in which:  
60 unique CDR3  
5 unique J



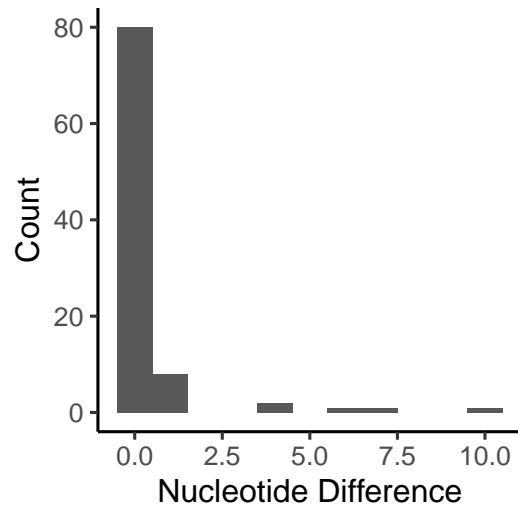
### IGHV2-5\*01

350 sequences assigned  
312 (89.1%) exact matches, in which:  
295 unique CDR3  
6 unique J



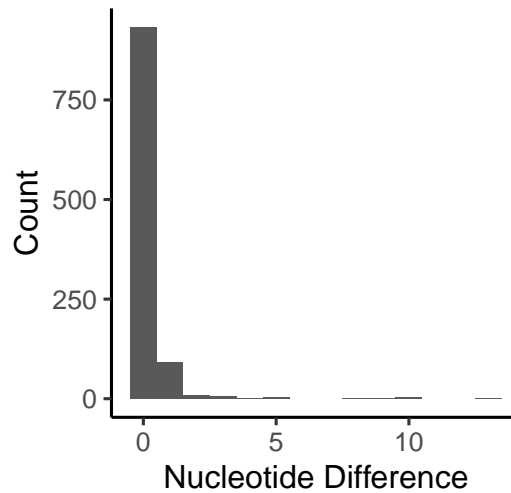
### IGHV1-58\*01

93 sequences assigned  
80 (86%) exact matches, in which:  
79 unique CDR3  
5 unique J



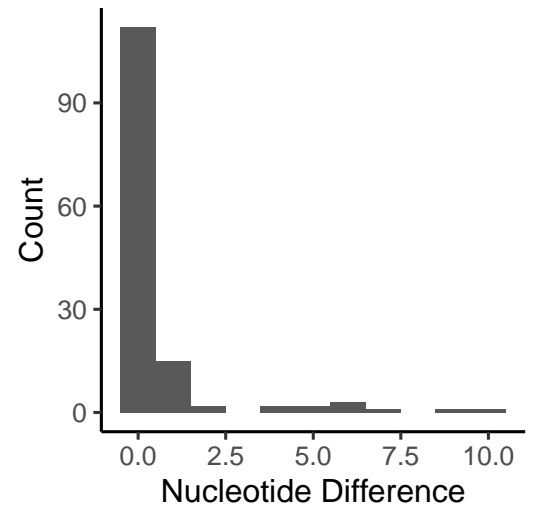
### IGHV1-69\*06

1052 sequences assigned  
933 (88.7%) exact matches, in which:  
888 unique CDR3  
7 unique J



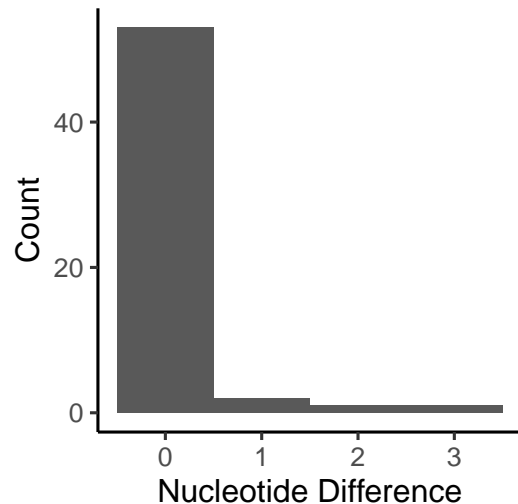
### IGHV2-5\*02

140 sequences assigned  
112 (80%) exact matches, in which:  
108 unique CDR3  
6 unique J



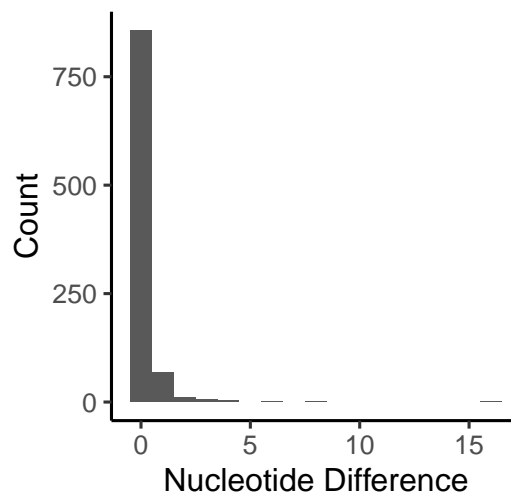
### IGHV1-58\*02

57 sequences assigned  
53 (93%) exact matches, in which:  
52 unique CDR3  
6 unique J



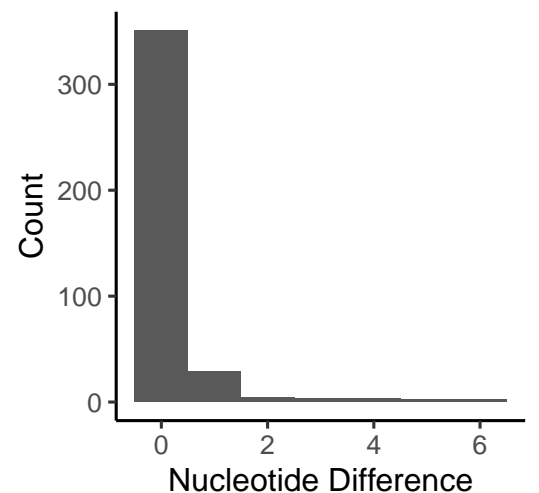
### IGHV1-69\*08\_C191T

955 sequences assigned  
857 (89.7%) exact matches, in which:  
802 unique CDR3  
6 unique J



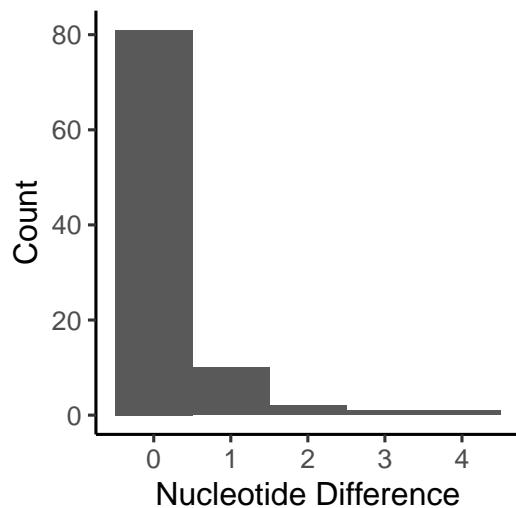
### IGHV2-26\*01

394 sequences assigned  
351 (89.1%) exact matches, in which:  
336 unique CDR3  
6 unique J



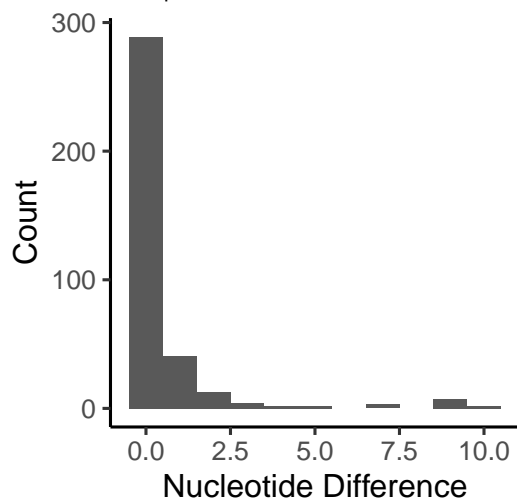
### IGHV2-70\*01

96 sequences assigned  
81 (84.4%) exact matches, in which:  
80 unique CDR3  
5 unique J



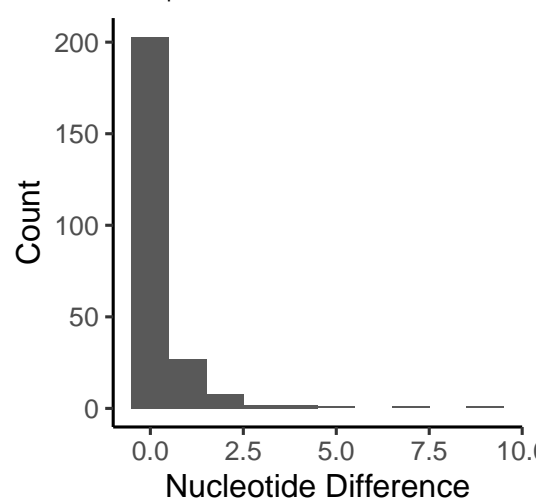
### IGHV3-7\*03

363 sequences assigned  
289 (79.6%) exact matches, in which:  
275 unique CDR3  
7 unique J



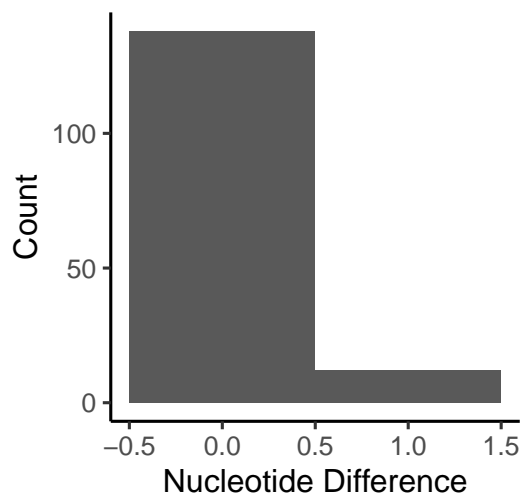
### IGHV3-11\*06

245 sequences assigned  
203 (82.9%) exact matches, in which:  
192 unique CDR3  
6 unique J



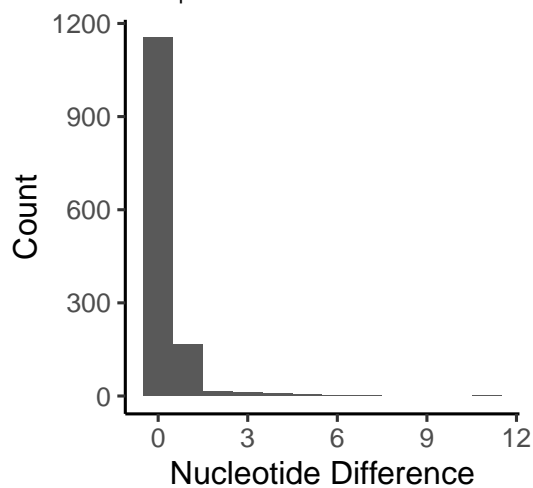
### IGHV2-70\*15

150 sequences assigned  
138 (92%) exact matches, in which:  
136 unique CDR3  
5 unique J



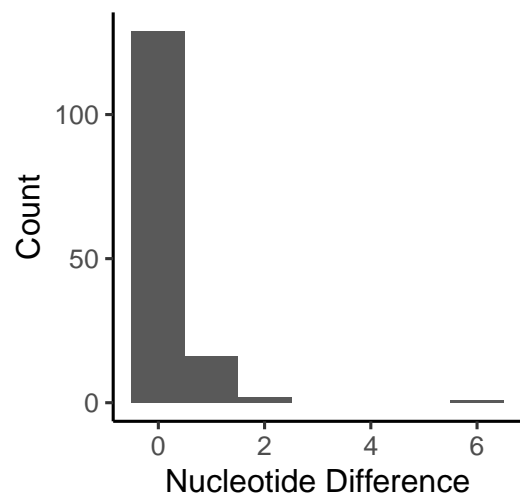
### IGHV3-9\*01

1361 sequences assigned  
1154 (84.8%) exact matches, in which:  
1058 unique CDR3  
7 unique J



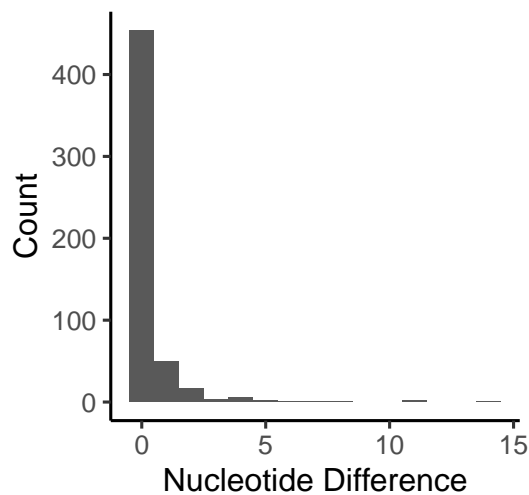
### IGHV3-13\*01

148 sequences assigned  
129 (87.2%) exact matches, in which:  
116 unique CDR3  
5 unique J



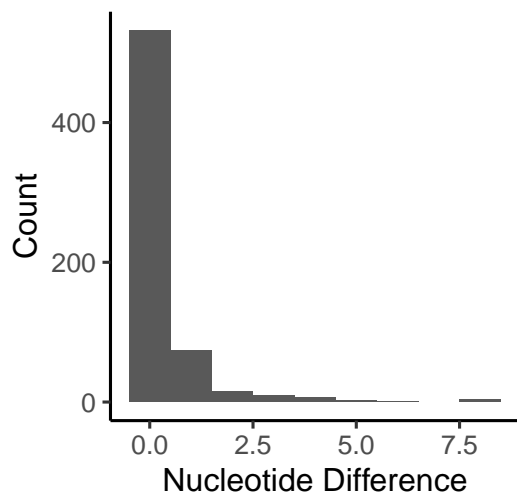
### IGHV3-7\*01

537 sequences assigned  
454 (84.5%) exact matches, in which:  
433 unique CDR3  
6 unique J



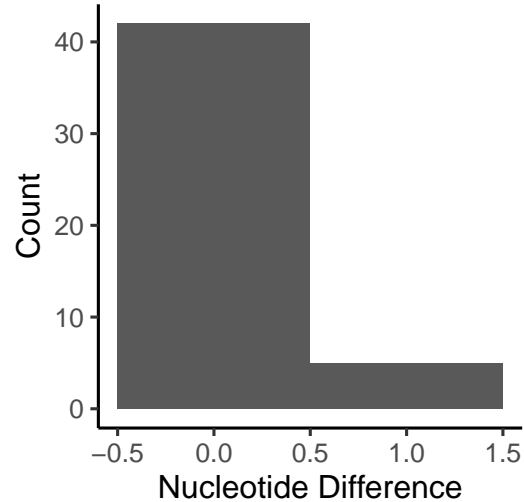
### IGHV3-11\*01

643 sequences assigned  
532 (82.7%) exact matches, in which:  
511 unique CDR3  
6 unique J



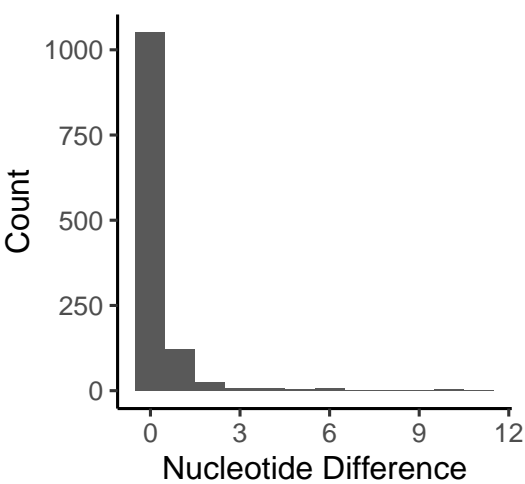
### IGHV3-13\*05

47 sequences assigned  
42 (89.4%) exact matches, in which:  
42 unique CDR3  
5 unique J



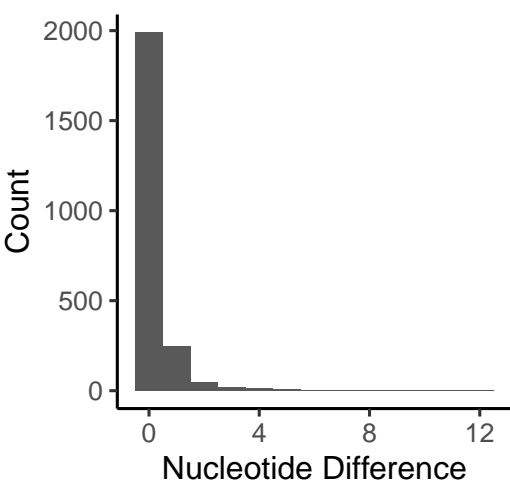
IGHV3-15\*01

1234 sequences assigned  
1051 (85.2%) exact matches, in which:  
1005 unique CDR3  
7 unique J



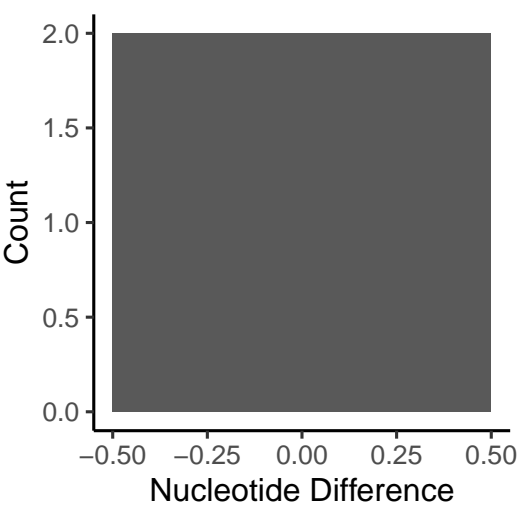
IGHV3-21\*01

2341 sequences assigned  
1990 (85%) exact matches, in which:  
1859 unique CDR3  
7 unique J



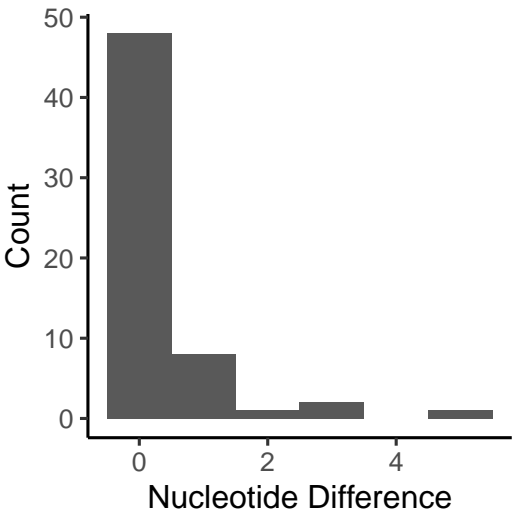
IGHV3-38-3\*01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



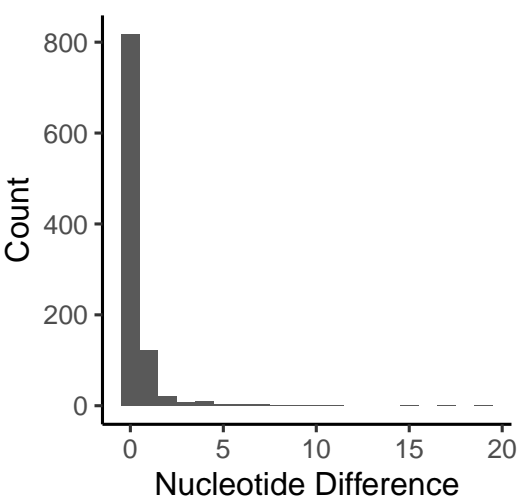
IGHV3-20\*01

60 sequences assigned  
48 (80%) exact matches, in which:  
46 unique CDR3  
5 unique J



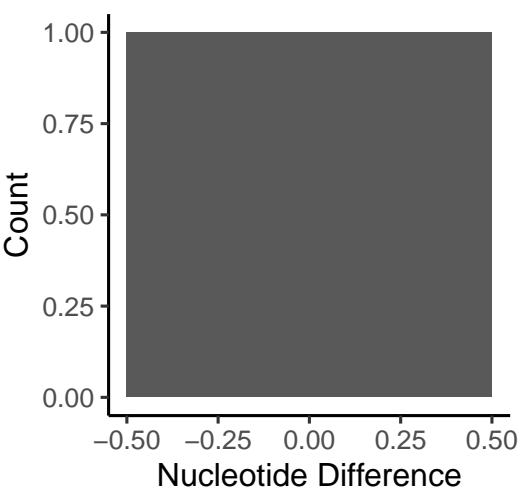
IGHV3-30-3\*01

1001 sequences assigned  
818 (81.7%) exact matches, in which:  
782 unique CDR3  
6 unique J



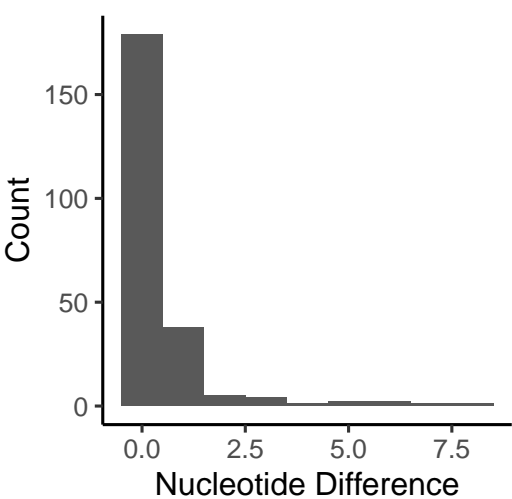
IGHV3-38\*01

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



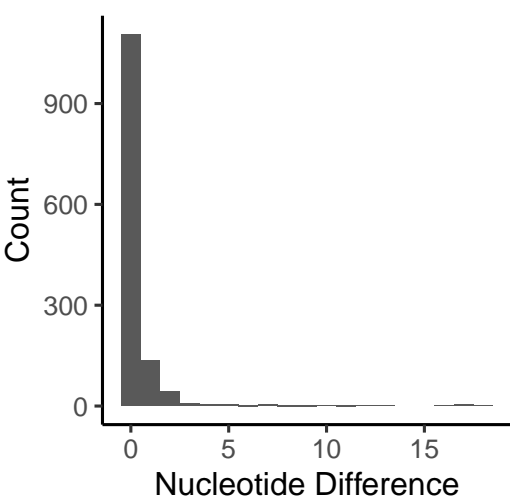
IGHV3-20\*04

233 sequences assigned  
179 (76.8%) exact matches, in which:  
169 unique CDR3  
6 unique J



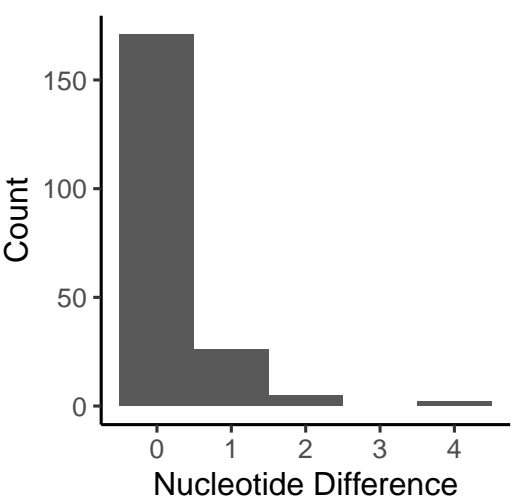
IGHV3-33\*01

1335 sequences assigned  
1106 (82.8%) exact matches, in which:  
1037 unique CDR3  
7 unique J



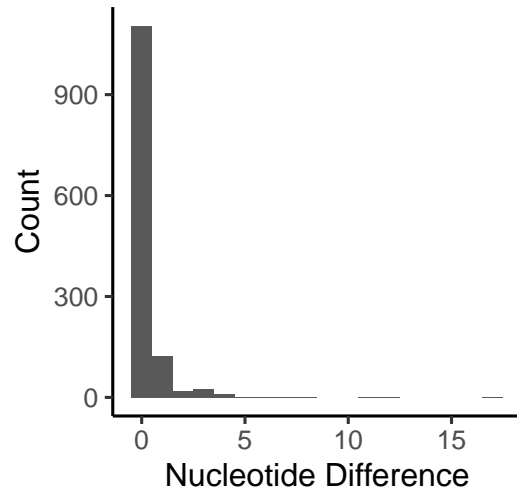
IGHV3-43\*01

204 sequences assigned  
171 (83.8%) exact matches, in which:  
157 unique CDR3  
6 unique J



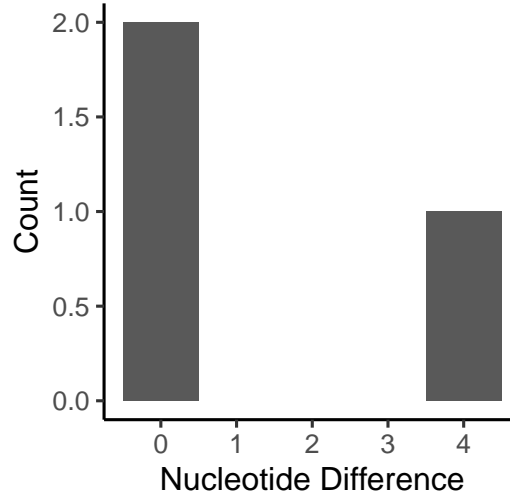
### IGHV3-48\*02

1292 sequences assigned  
1105 (85.5%) exact matches, in which:  
1040 unique CDR3  
7 unique J



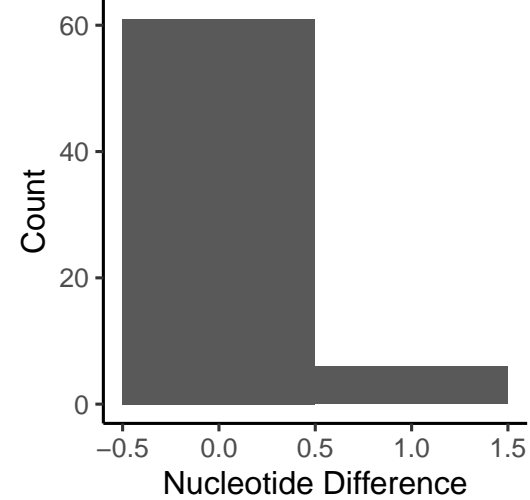
### IGHV3-52\*01

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



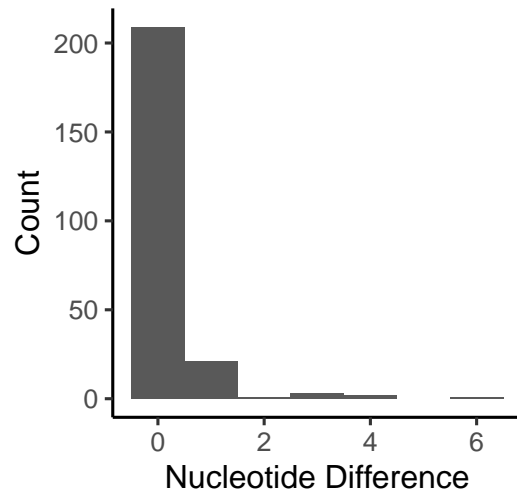
### IGHV3-64\*01

67 sequences assigned  
61 (91%) exact matches, in which:  
57 unique CDR3  
6 unique J



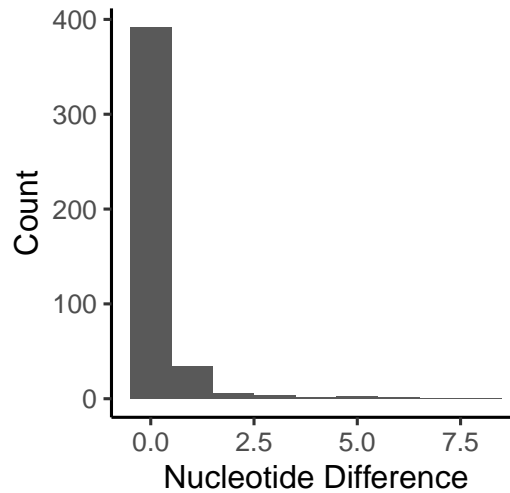
### IGHV3-49\*04

237 sequences assigned  
209 (88.2%) exact matches, in which:  
199 unique CDR3  
6 unique J



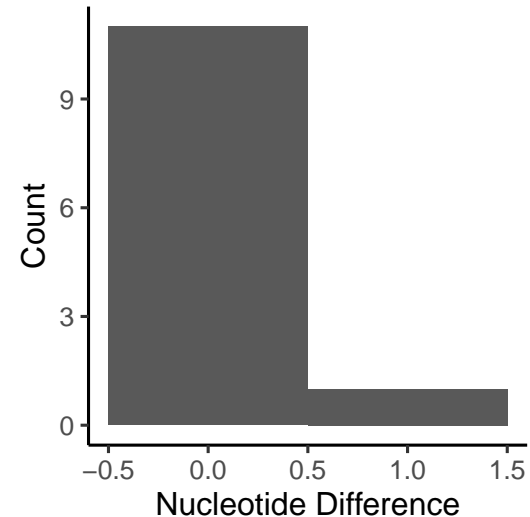
### IGHV3-53\*01

445 sequences assigned  
392 (88.1%) exact matches, in which:  
374 unique CDR3  
7 unique J



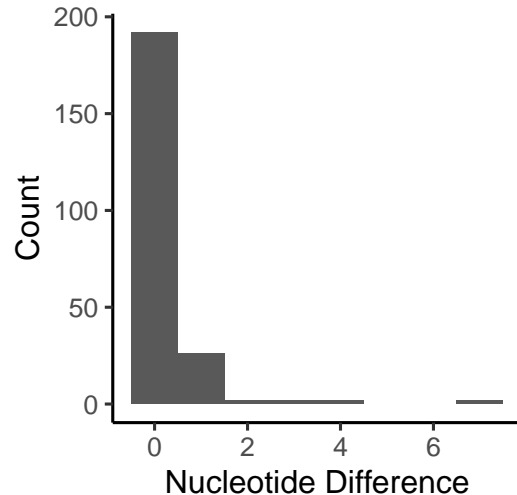
### IGHV3-64\*02

12 sequences assigned  
11 (91.7%) exact matches, in which:  
11 unique CDR3  
4 unique J



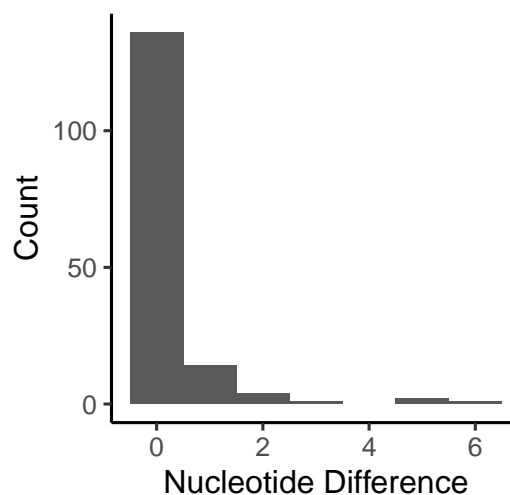
### IGHV3-49\*05

226 sequences assigned  
192 (85%) exact matches, in which:  
181 unique CDR3  
6 unique J



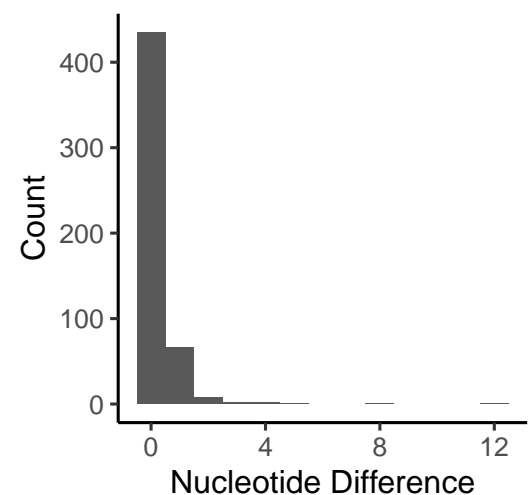
### IGHV3-53\*04

158 sequences assigned  
136 (86.1%) exact matches, in which:  
125 unique CDR3  
6 unique J



### IGHV3-66\*01

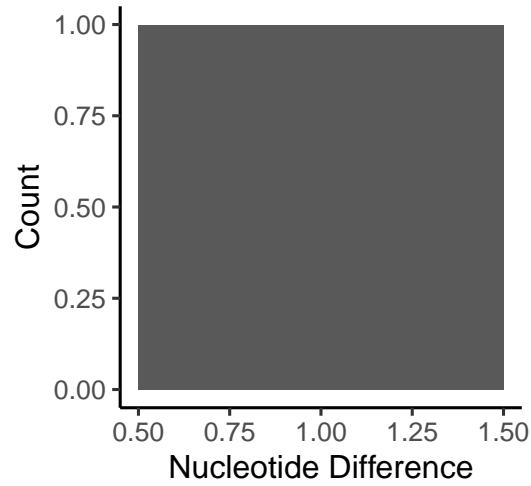
516 sequences assigned  
435 (84.3%) exact matches, in which:  
394 unique CDR3  
6 unique J





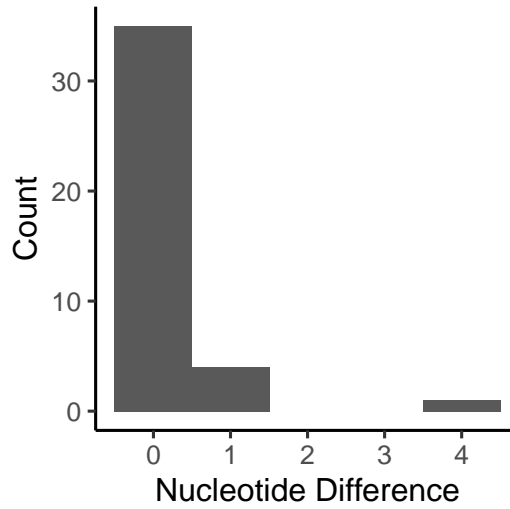
### IGHV3-69-1\*01

1 sequences assigned  
No exact matches.



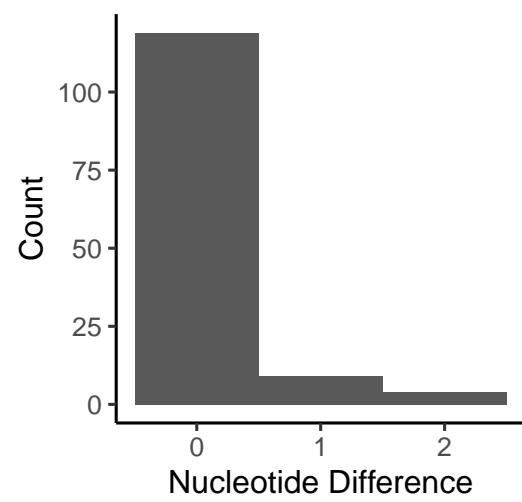
### IGHV3-73\*01

40 sequences assigned  
35 (87.5%) exact matches, in which:  
32 unique CDR3  
4 unique J



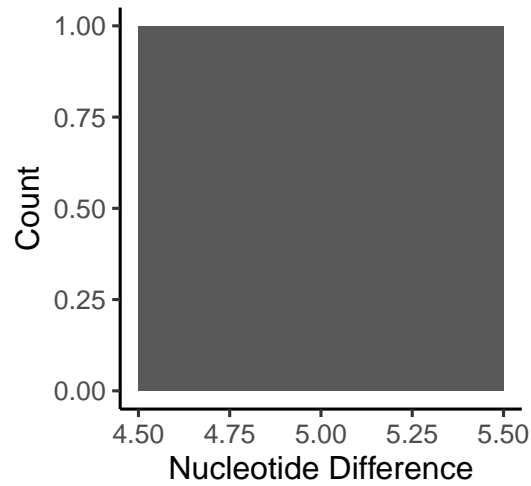
### IGHV3-43D\*03

132 sequences assigned  
119 (90.2%) exact matches, in which:  
112 unique CDR3  
5 unique J



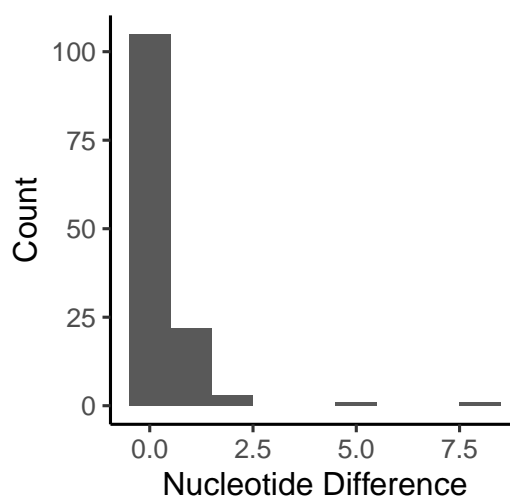
### IGHV3-71\*02

1 sequences assigned  
No exact matches.



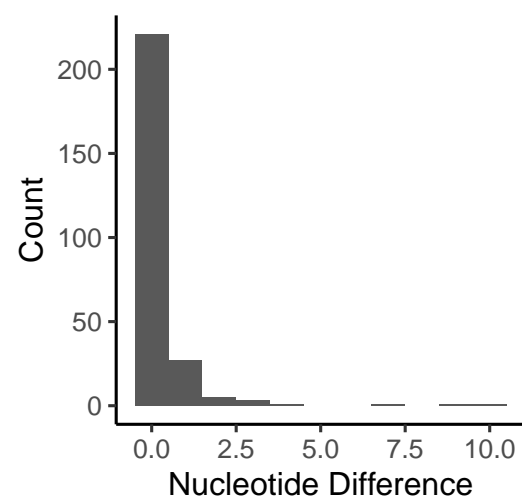
### IGHV3-73\*02

132 sequences assigned  
105 (79.5%) exact matches, in which:  
100 unique CDR3  
6 unique J



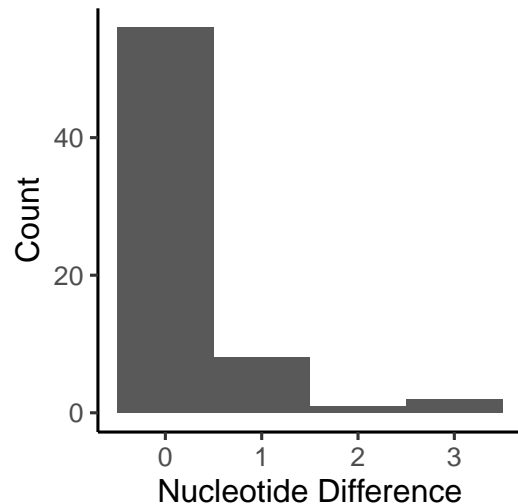
### IGHV3-64D\*09

260 sequences assigned  
221 (85%) exact matches, in which:  
204 unique CDR3  
6 unique J



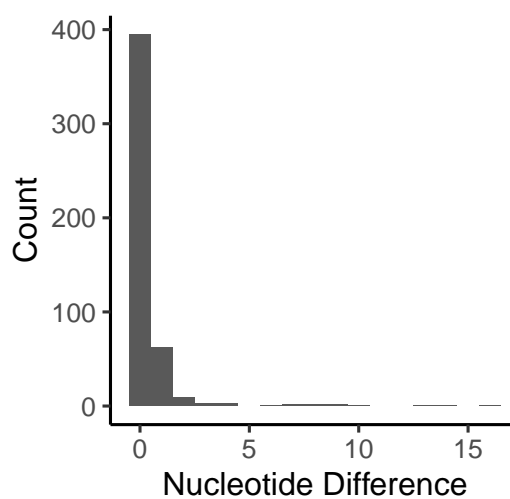
### IGHV3-72\*01

67 sequences assigned  
56 (83.6%) exact matches, in which:  
53 unique CDR3  
6 unique J



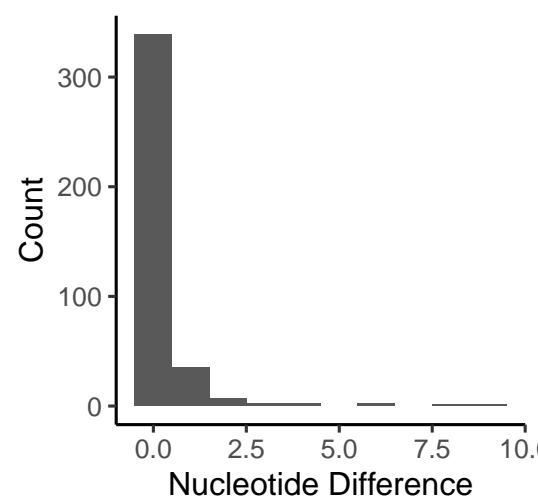
### IGHV3-74\*01

485 sequences assigned  
395 (81.4%) exact matches, in which:  
373 unique CDR3  
7 unique J



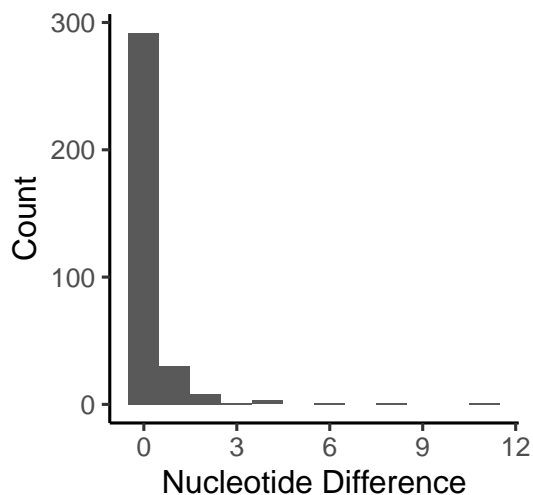
### IGHV4-4\*02

390 sequences assigned  
339 (86.9%) exact matches, in which:  
331 unique CDR3  
6 unique J



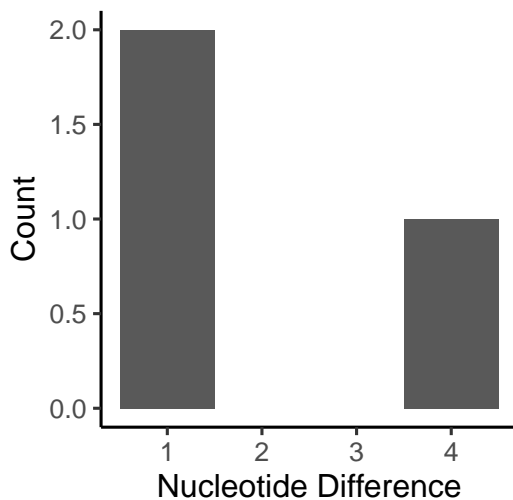
### IGHV4-4\*07

337 sequences assigned  
292 (86.6%) exact matches, in which:  
275 unique CDR3  
6 unique J



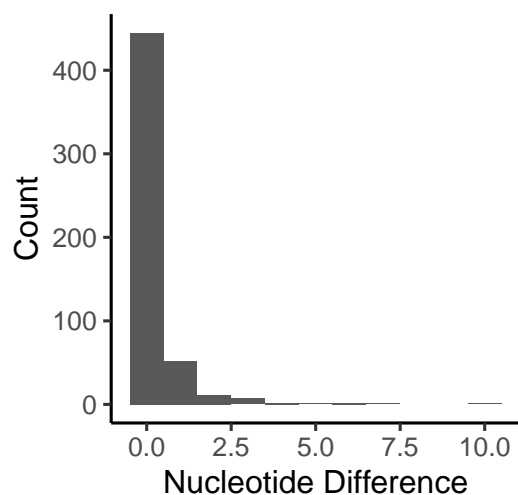
### IGHV4-28\*04

3 sequences assigned  
No exact matches.



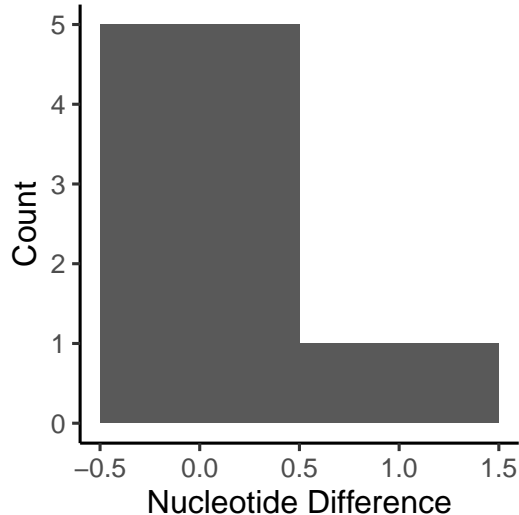
### IGHV4-31\*03

522 sequences assigned  
445 (85.2%) exact matches, in which:  
422 unique CDR3  
6 unique J



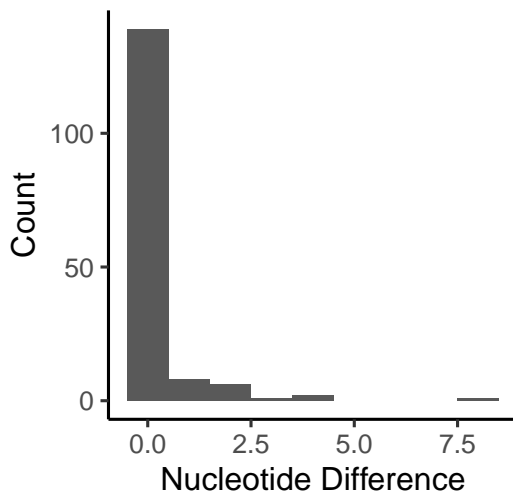
### IGHV4-28\*01

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



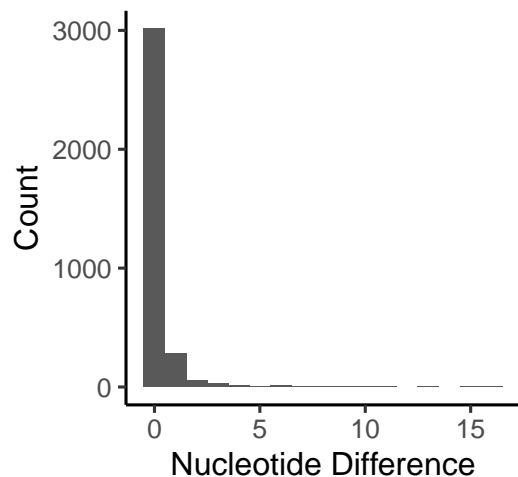
### IGHV4-30-2\*01

157 sequences assigned  
139 (88.5%) exact matches, in which:  
132 unique CDR3  
6 unique J



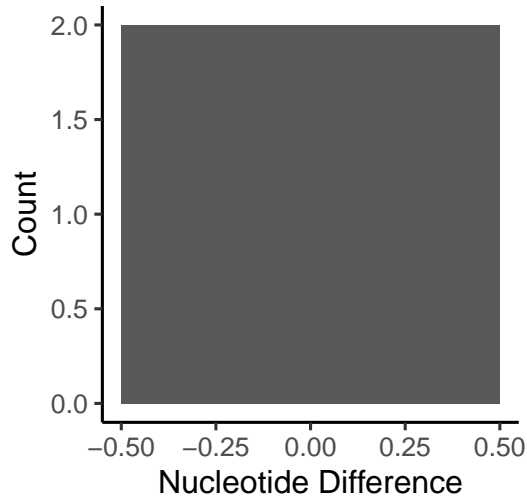
### IGHV4-34\*01

3430 sequences assigned  
3014 (87.9%) exact matches, in which:  
2812 unique CDR3  
7 unique J



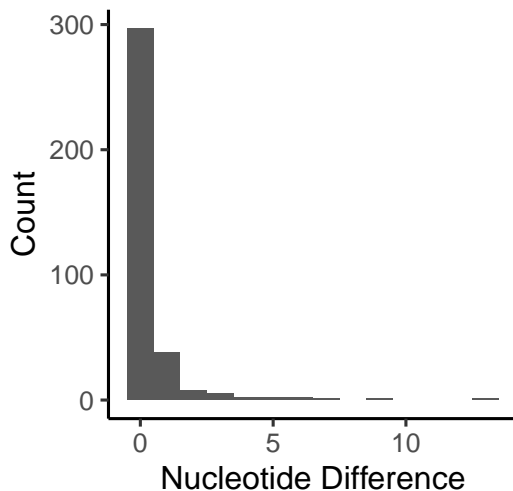
### IGHV4-28\*03

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



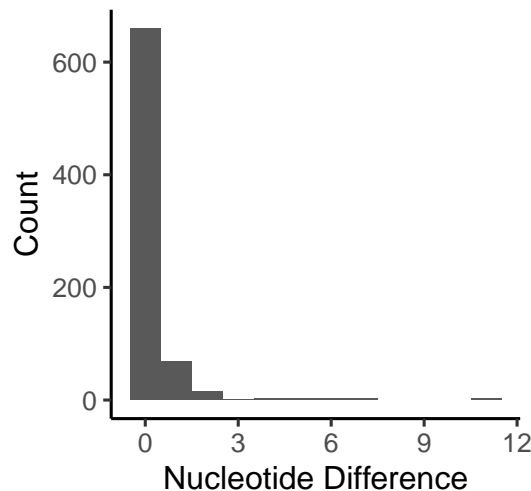
### IGHV4-30-4\*01

360 sequences assigned  
297 (82.5%) exact matches, in which:  
286 unique CDR3  
6 unique J



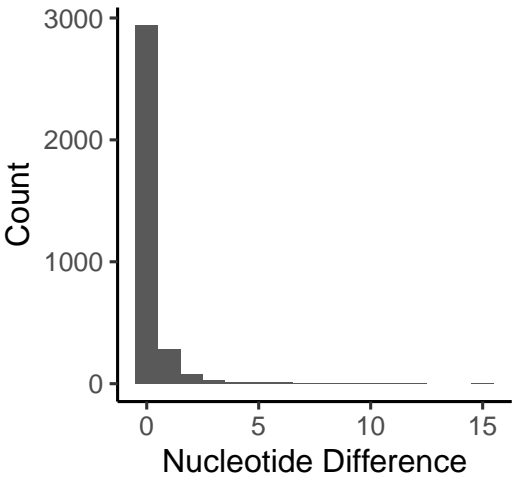
### IGHV4-38-2\*02

757 sequences assigned  
660 (87.2%) exact matches, in which:  
609 unique CDR3  
6 unique J



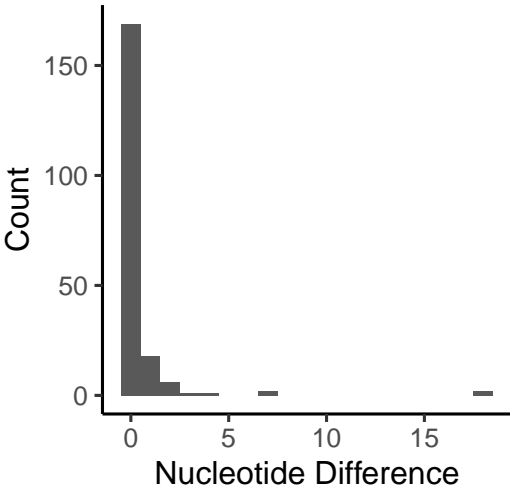
IGHV4-39\*01

3402 sequences assigned  
2939 (86.4%) exact matches, in which:  
2746 unique CDR3  
7 unique J



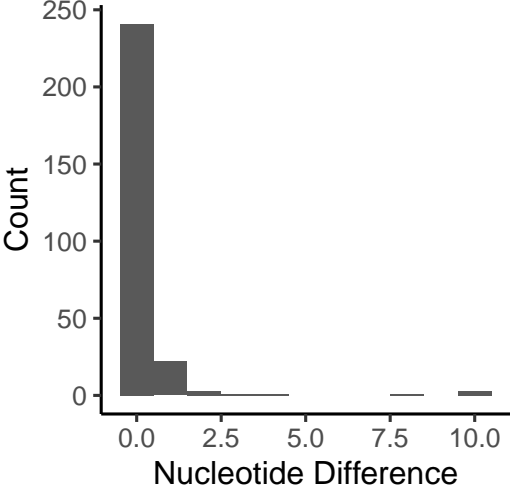
IGHV4-61\*01

199 sequences assigned  
169 (84.9%) exact matches, in which:  
165 unique CDR3  
6 unique J



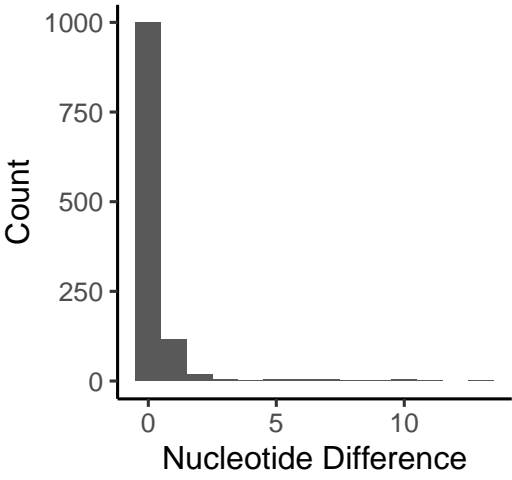
IGHV6-1\*01

272 sequences assigned  
241 (88.6%) exact matches, in which:  
231 unique CDR3  
6 unique J



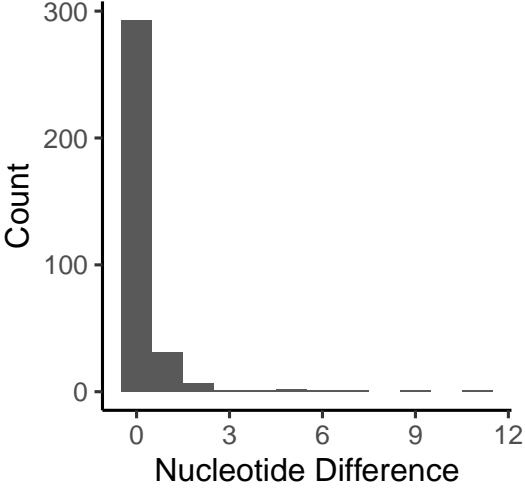
IGHV4-59\*01

1165 sequences assigned  
999 (85.8%) exact matches, in which:  
961 unique CDR3  
7 unique J



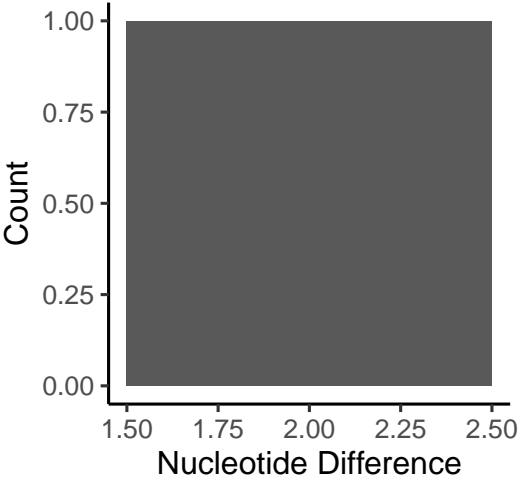
IGHV5-10-1\*03

339 sequences assigned  
293 (86.4%) exact matches, in which:  
281 unique CDR3  
6 unique J



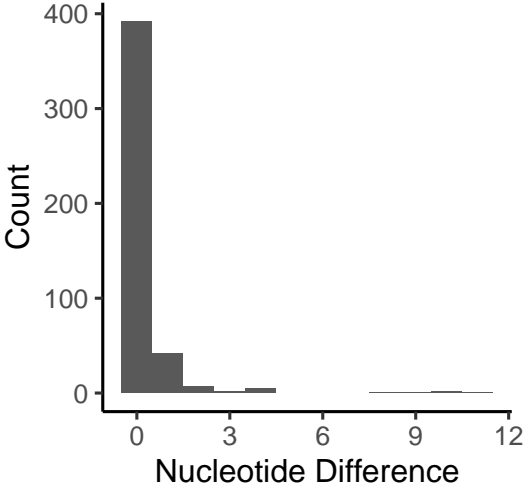
IGHV3/OR16-6\*02

1 sequences assigned  
No exact matches.



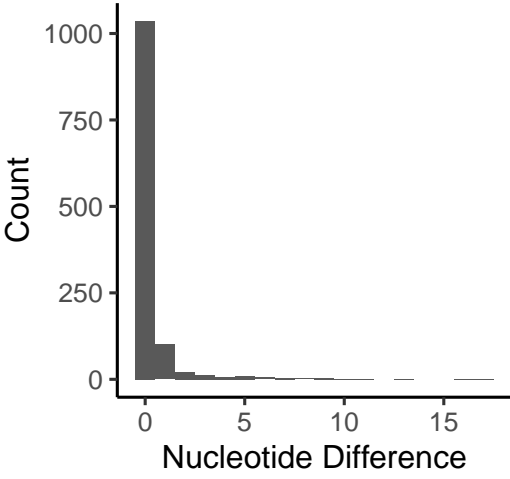
IGHV4-59\*08

454 sequences assigned  
392 (86.3%) exact matches, in which:  
380 unique CDR3  
6 unique J



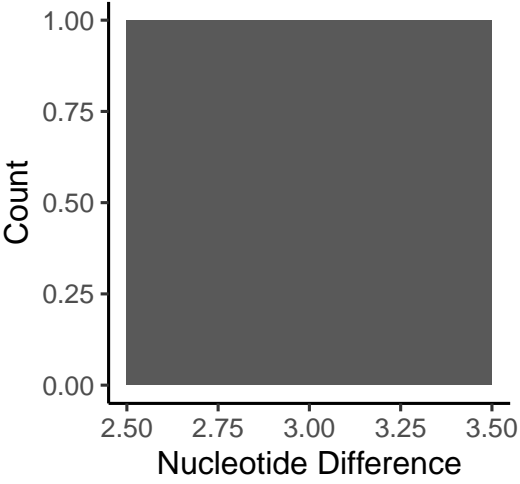
IGHV5-51\*01

1208 sequences assigned  
1036 (85.8%) exact matches, in which:  
991 unique CDR3  
7 unique J



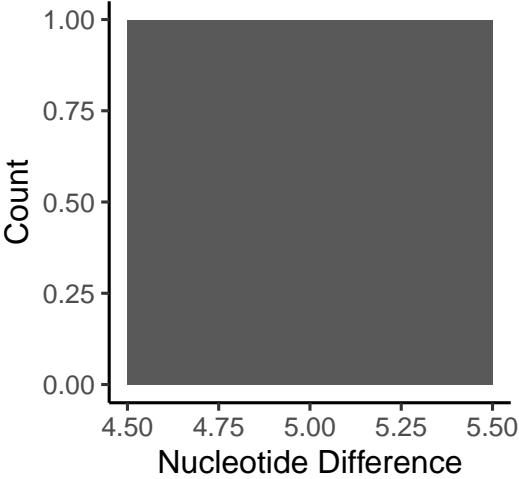
IGHV3/OR16-9\*01

1 sequences assigned  
No exact matches.



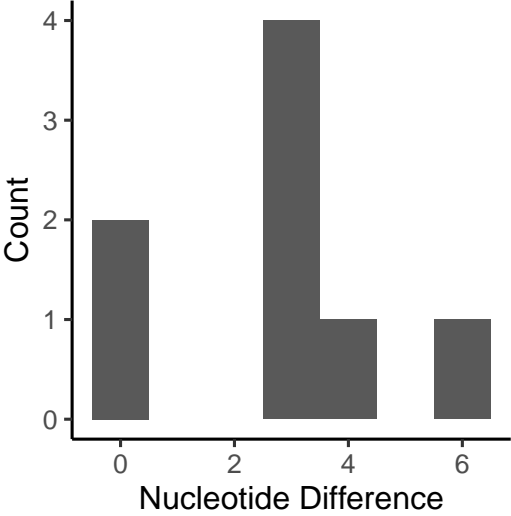
# IGHV3/OR16-15\*02

1 sequences assigned  
No exact matches.

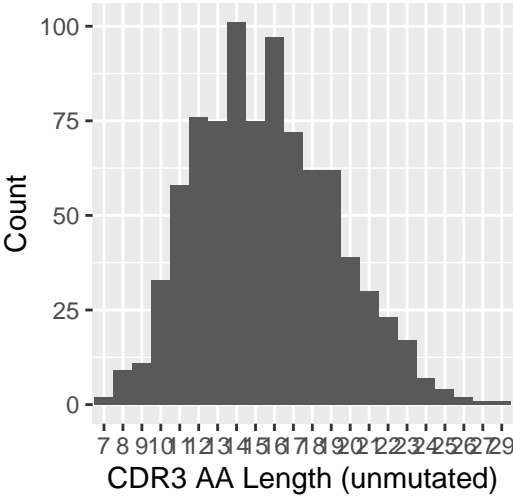


# IGHV7-4-1\*01

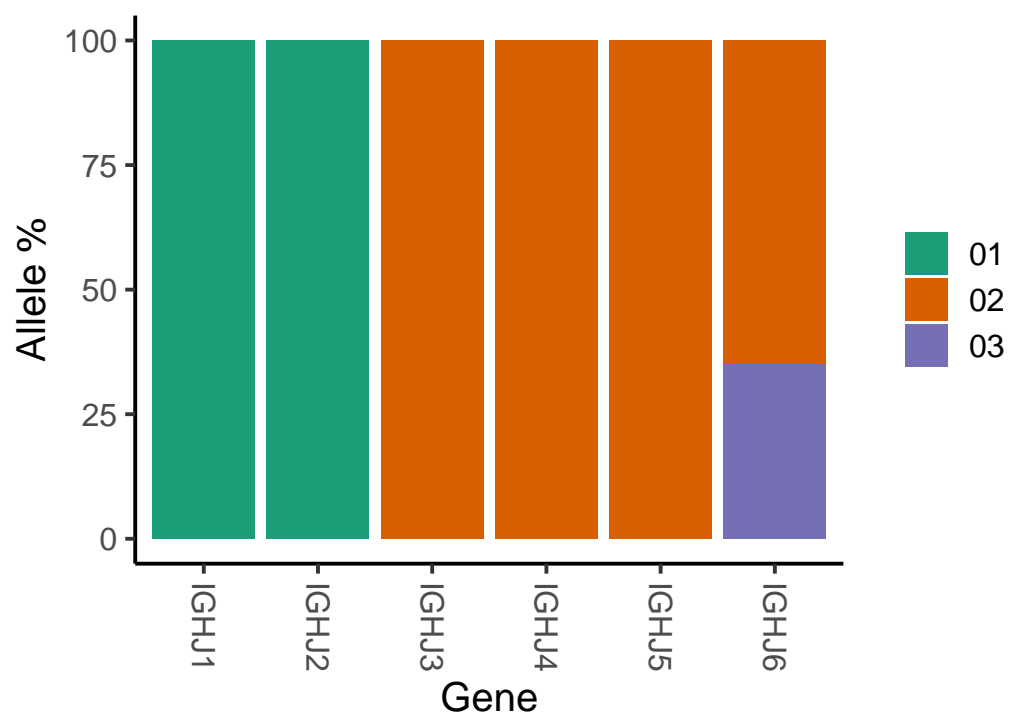
8 sequences assigned  
2 (25%) exact matches, in which:  
2 unique CDR3  
1 unique J



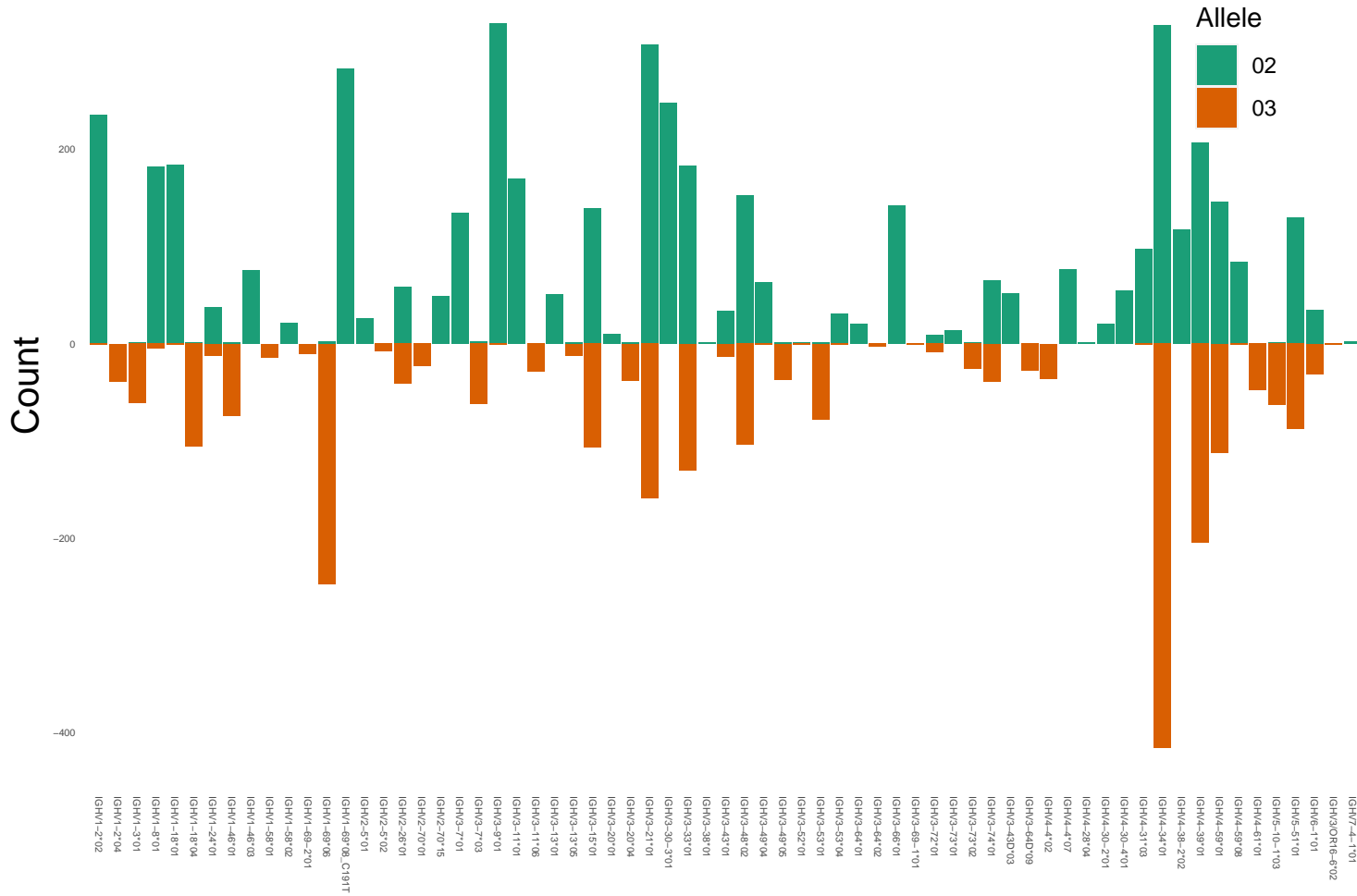
IGHV1-69\*08\_C191T



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.