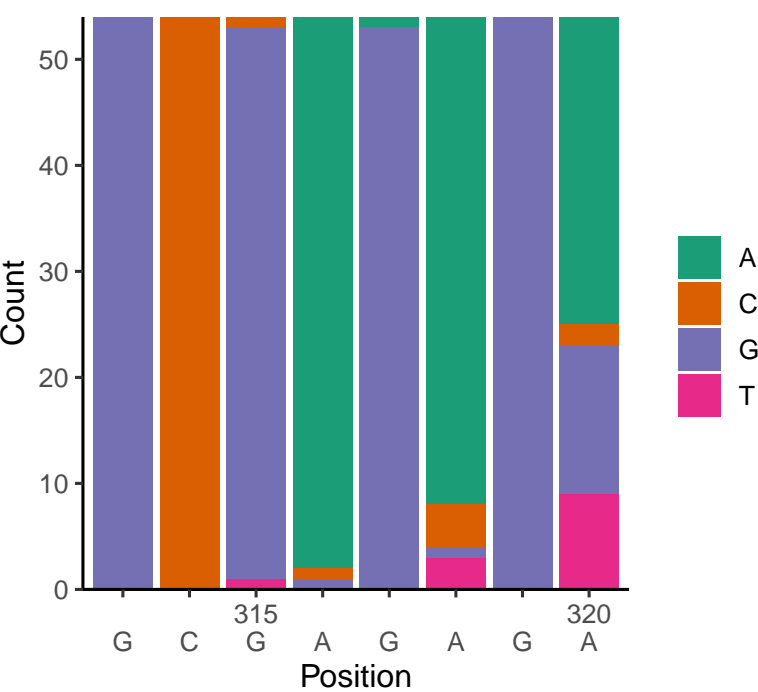
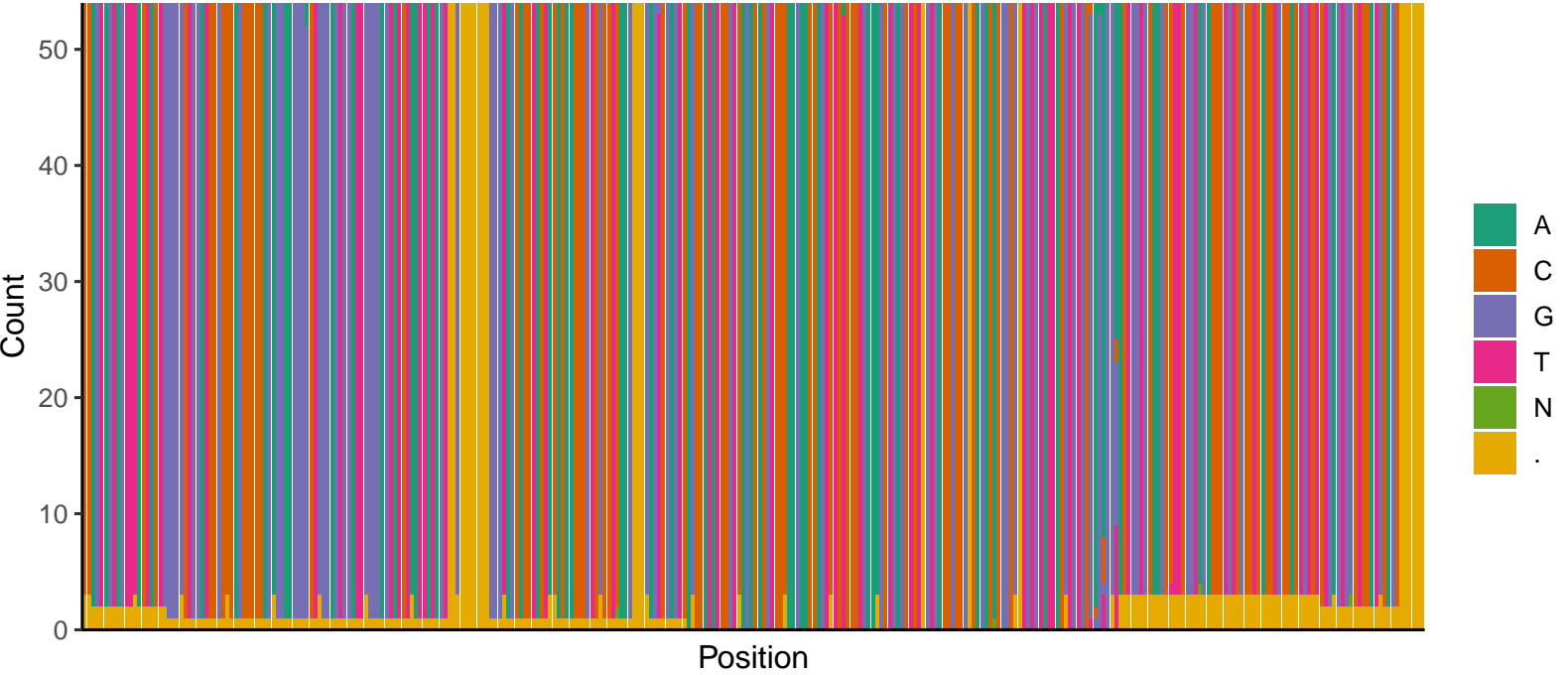


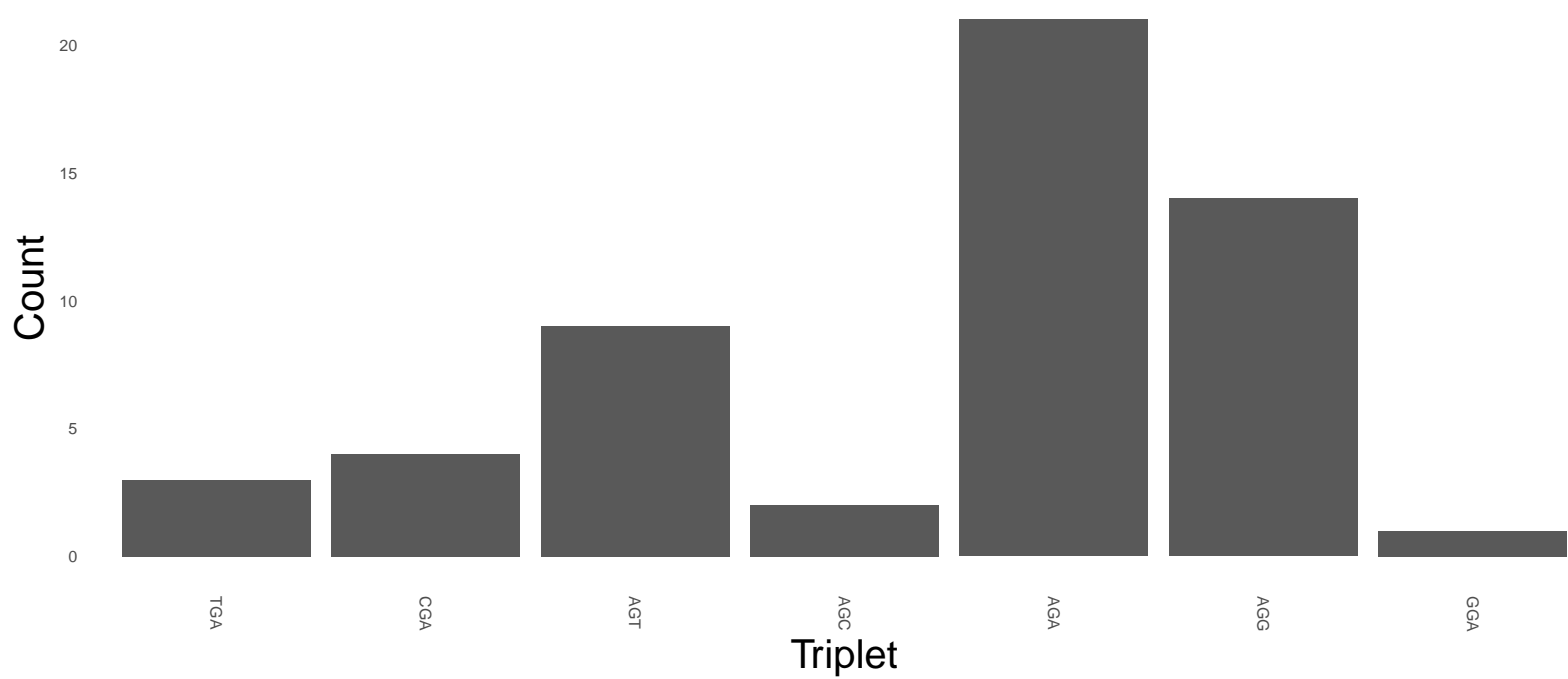
Gene IGHV4-39\*02\_C258G



Gene IGHV4-39\*02\_C258G

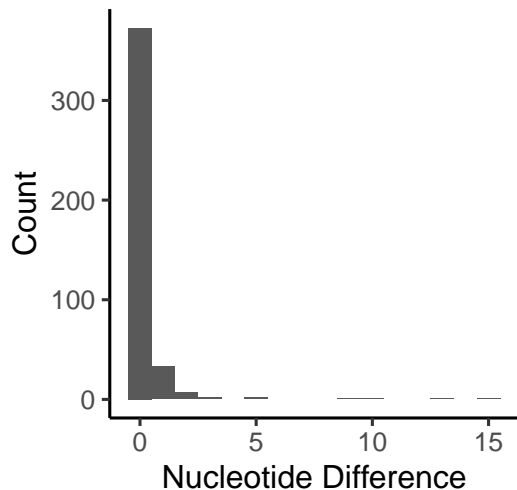


IGHV4-39\*02\_C258G- Final 3 nucleotides as a triplet



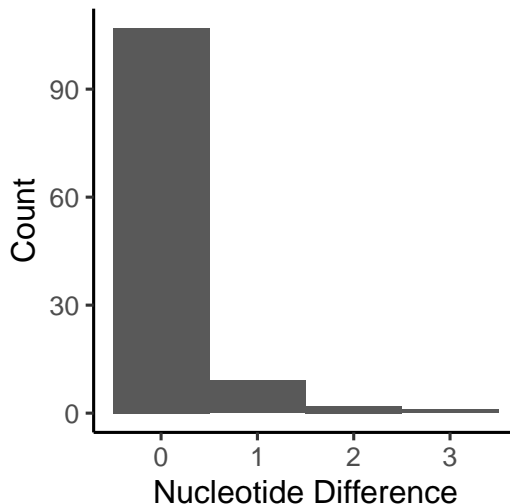
### IGHV1-2\*02

421 sequences assigned  
373 (88.6%) exact matches, in which:  
371 unique CDR3  
7 unique J



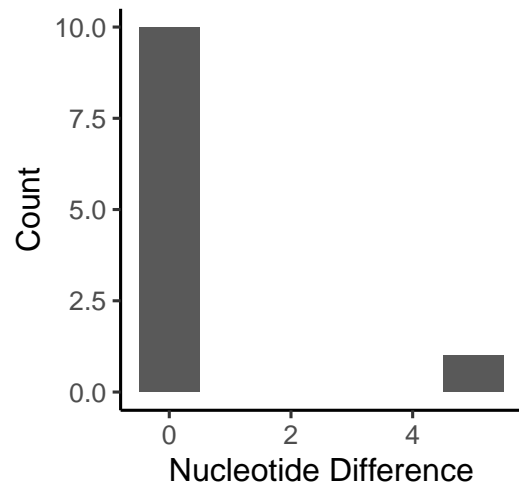
### IGHV1-24\*01

119 sequences assigned  
107 (89.9%) exact matches, in which:  
107 unique CDR3  
7 unique J



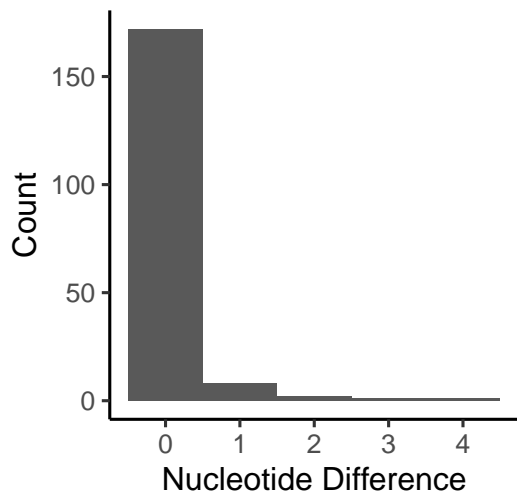
### IGHV1-69-2\*01

11 sequences assigned  
10 (90.9%) exact matches, in which:  
10 unique CDR3  
5 unique J



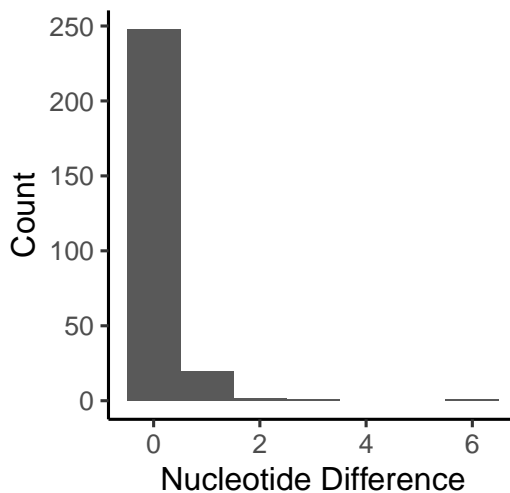
### IGHV1-8\*01

185 sequences assigned  
172 (93%) exact matches, in which:  
171 unique CDR3  
5 unique J



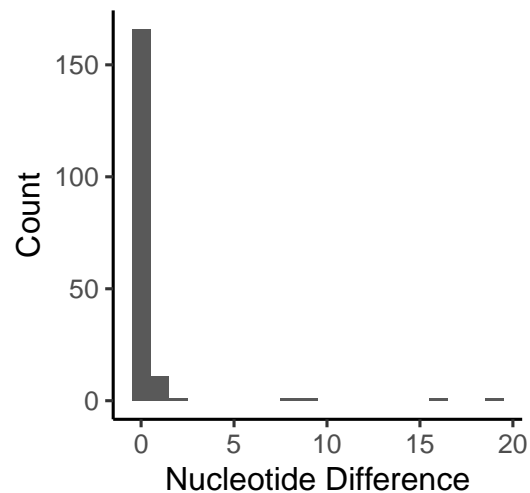
### IGHV1-46\*01

272 sequences assigned  
248 (91.2%) exact matches, in which:  
246 unique CDR3  
7 unique J



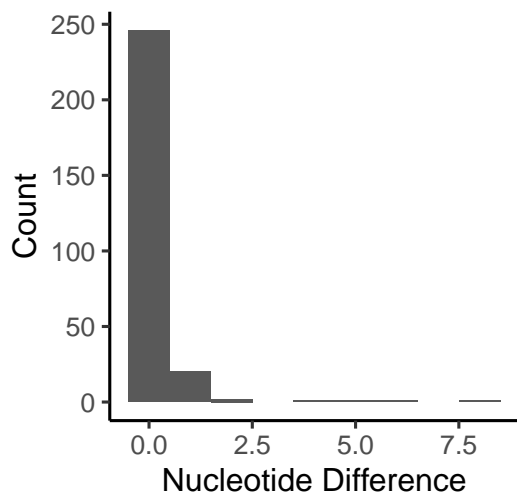
### IGHV1-69\*09

182 sequences assigned  
166 (91.2%) exact matches, in which:  
166 unique CDR3  
6 unique J



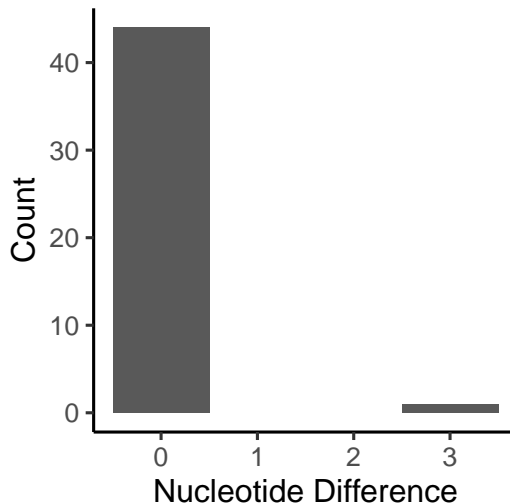
### IGHV1-18\*01

272 sequences assigned  
246 (90.4%) exact matches, in which:  
244 unique CDR3  
7 unique J



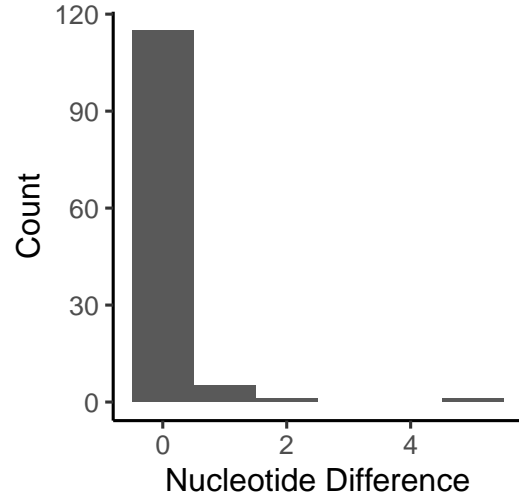
### IGHV1-58\*01

45 sequences assigned  
44 (97.8%) exact matches, in which:  
43 unique CDR3  
6 unique J



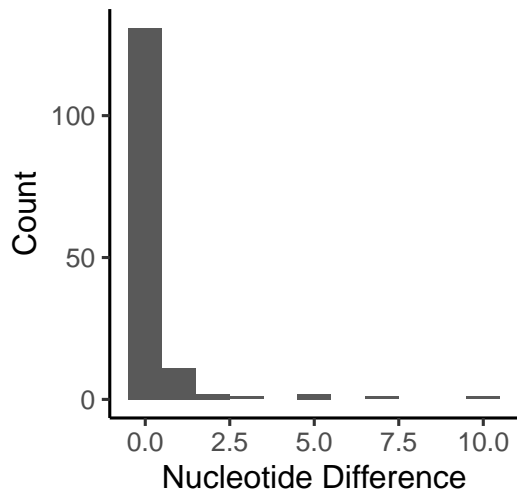
### IGHV2-5\*01

122 sequences assigned  
115 (94.3%) exact matches, in which:  
113 unique CDR3  
6 unique J



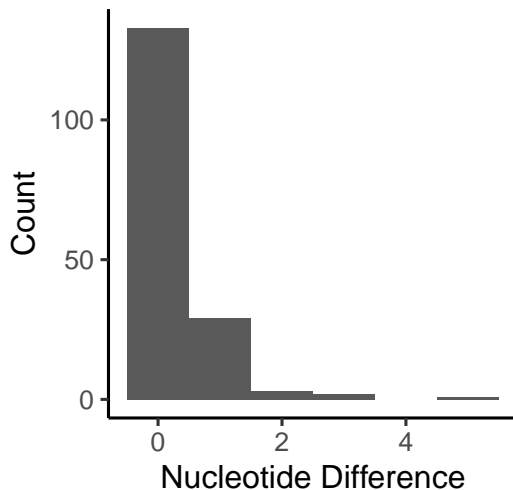
### IGHV2-5\*02

149 sequences assigned  
131 (87.9%) exact matches, in which:  
131 unique CDR3  
6 unique J



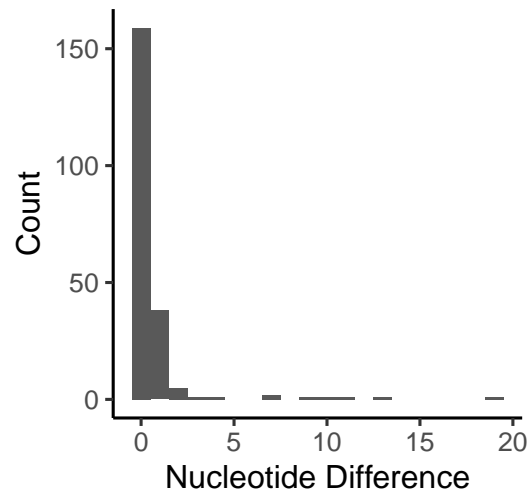
### IGHV3-7\*01

168 sequences assigned  
133 (79.2%) exact matches, in which:  
131 unique CDR3  
6 unique J



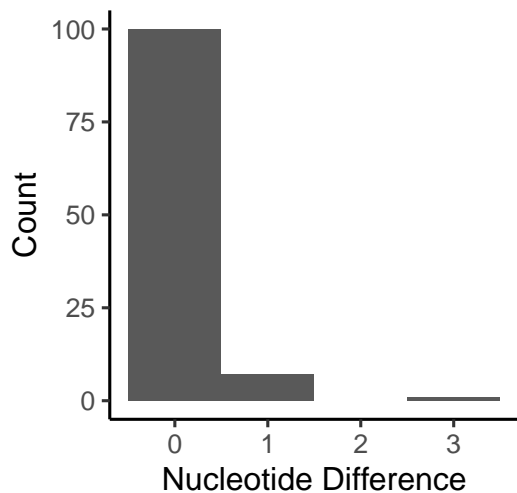
### IGHV3-11\*01

211 sequences assigned  
159 (75.4%) exact matches, in which:  
157 unique CDR3  
6 unique J



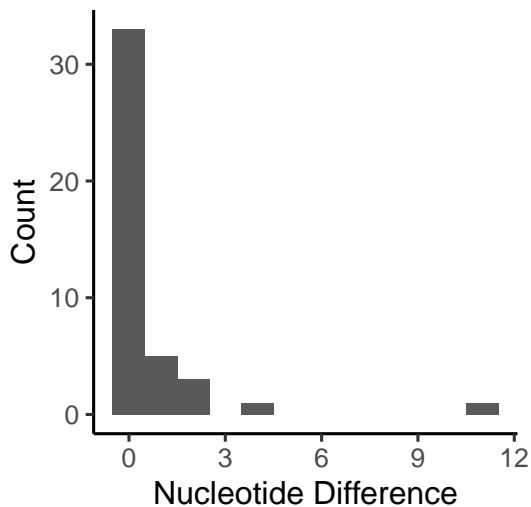
### IGHV2-26\*01

108 sequences assigned  
100 (92.6%) exact matches, in which:  
100 unique CDR3  
6 unique J



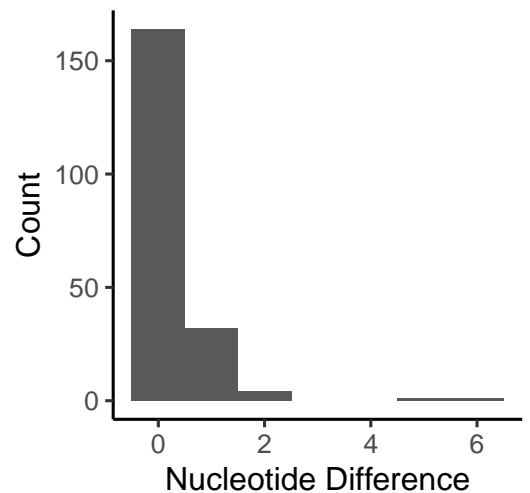
### IGHV3-7\*04

43 sequences assigned  
33 (76.7%) exact matches, in which:  
33 unique CDR3  
5 unique J



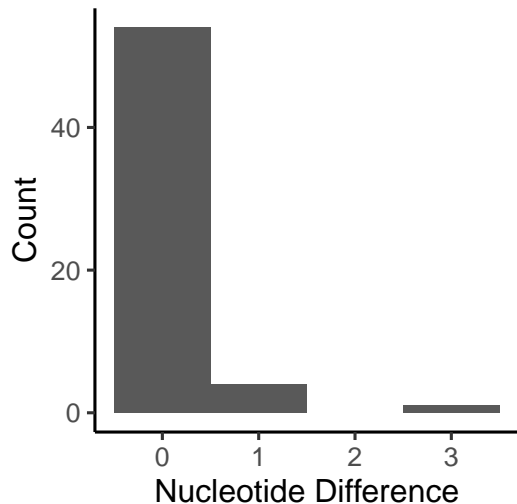
### IGHV3-11\*05

202 sequences assigned  
164 (81.2%) exact matches, in which:  
162 unique CDR3  
6 unique J



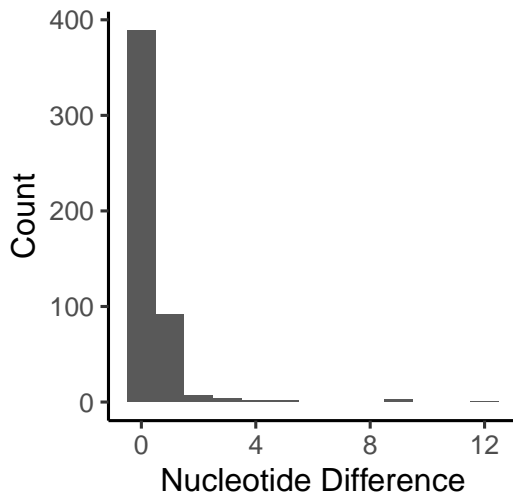
### IGHV2-70\*01

59 sequences assigned  
54 (91.5%) exact matches, in which:  
54 unique CDR3  
7 unique J



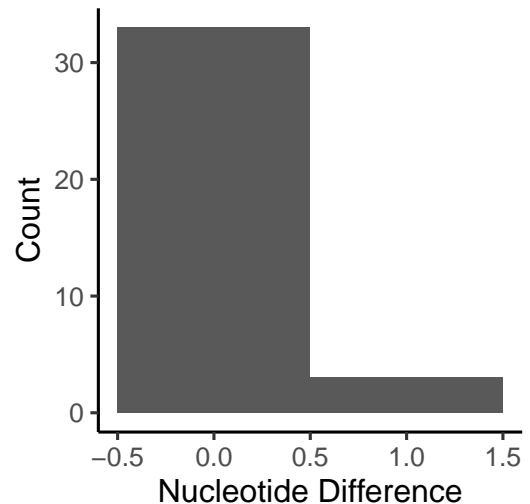
### IGHV3-9\*01

500 sequences assigned  
389 (77.8%) exact matches, in which:  
379 unique CDR3  
6 unique J



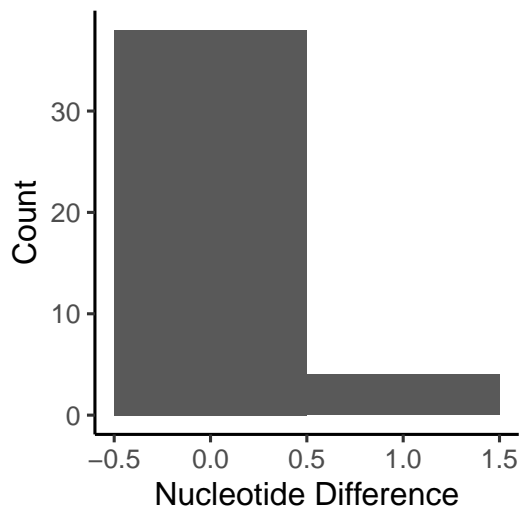
### IGHV3-13\*01

36 sequences assigned  
33 (91.7%) exact matches, in which:  
33 unique CDR3  
6 unique J



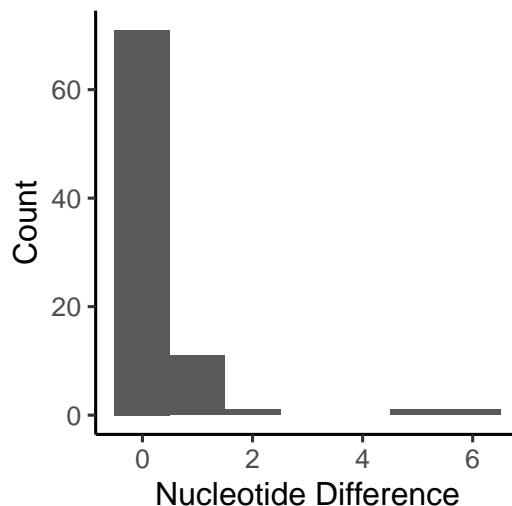
### IGHV3-13\*04

42 sequences assigned  
38 (90.5%) exact matches, in which:  
38 unique CDR3  
5 unique J



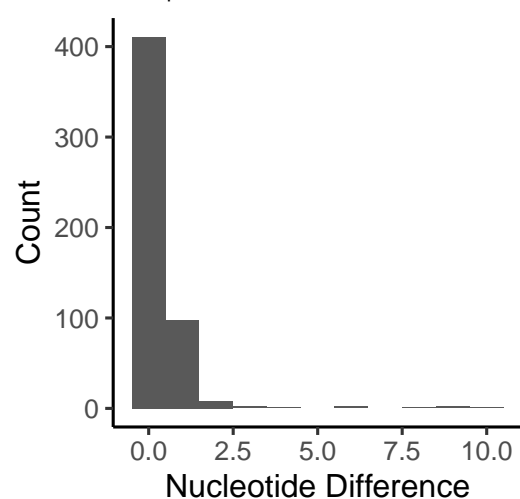
### IGHV3-20\*04

85 sequences assigned  
71 (83.5%) exact matches, in which:  
71 unique CDR3  
6 unique J



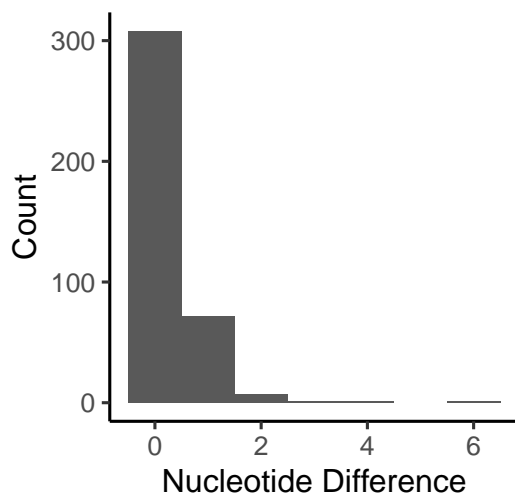
### IGHV3-33\*01

526 sequences assigned  
411 (78.1%) exact matches, in which:  
401 unique CDR3  
7 unique J



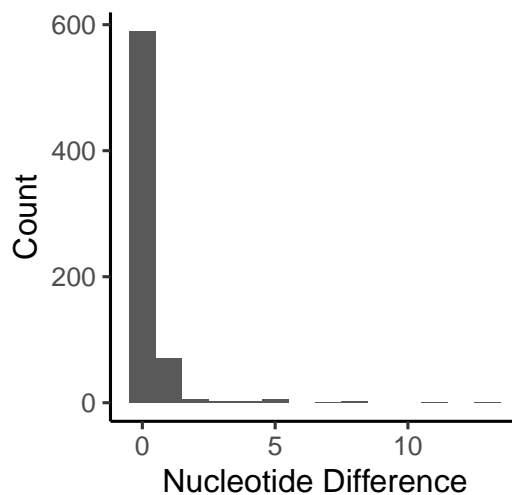
### IGHV3-15\*01

390 sequences assigned  
308 (79%) exact matches, in which:  
307 unique CDR3  
7 unique J



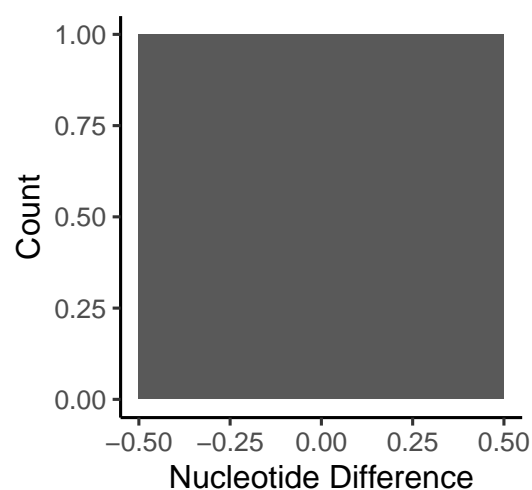
### IGHV3-21\*01

680 sequences assigned  
590 (86.8%) exact matches, in which:  
589 unique CDR3  
7 unique J



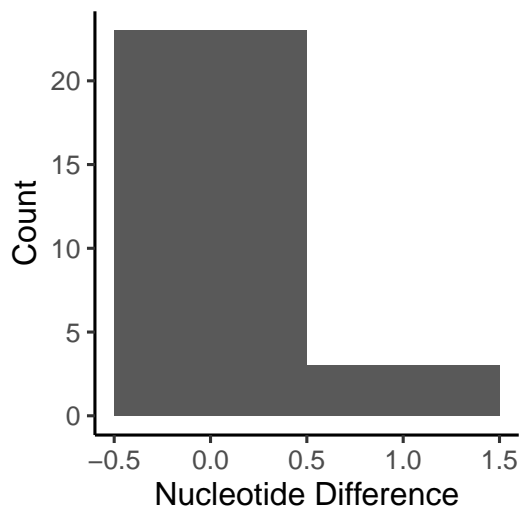
### IGHV3-35\*01

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



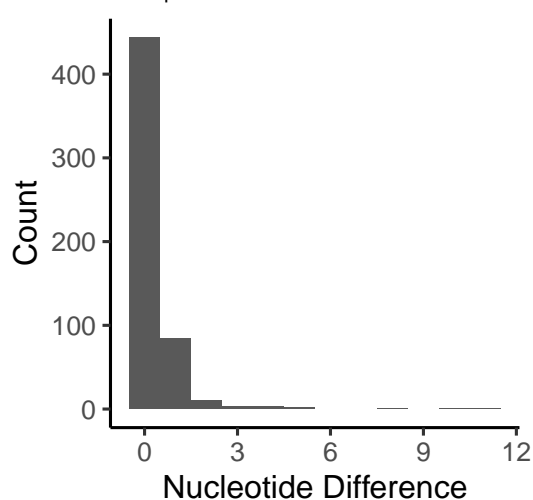
### IGHV3-20\*01

26 sequences assigned  
23 (88.5%) exact matches, in which:  
23 unique CDR3  
6 unique J



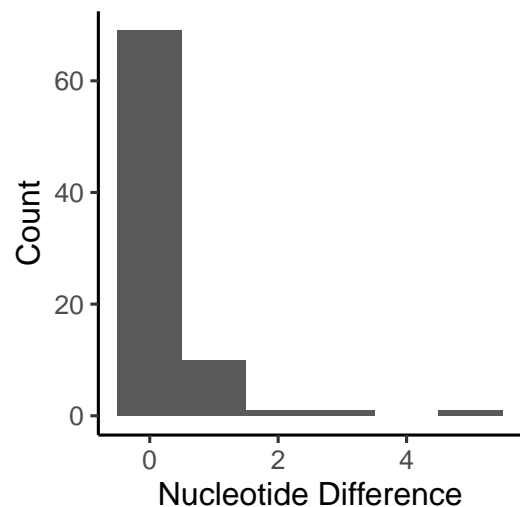
### IGHV3-30-3\*01

549 sequences assigned  
444 (80.9%) exact matches, in which:  
437 unique CDR3  
6 unique J



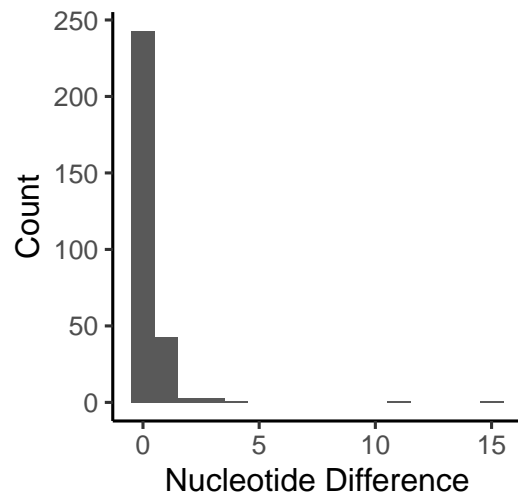
### IGHV3-43\*01

82 sequences assigned  
69 (84.1%) exact matches, in which:  
67 unique CDR3  
6 unique J



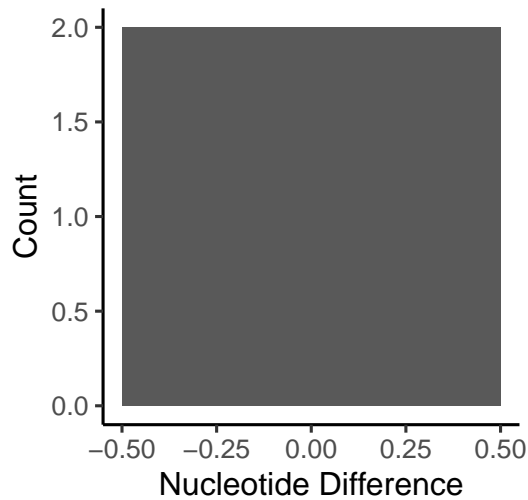
### IGHV3-48\*02

295 sequences assigned  
243 (82.4%) exact matches, in which:  
243 unique CDR3  
7 unique J



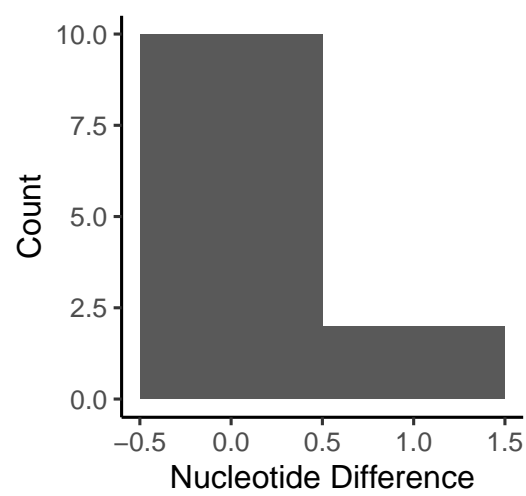
### IGHV3-64\*02

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



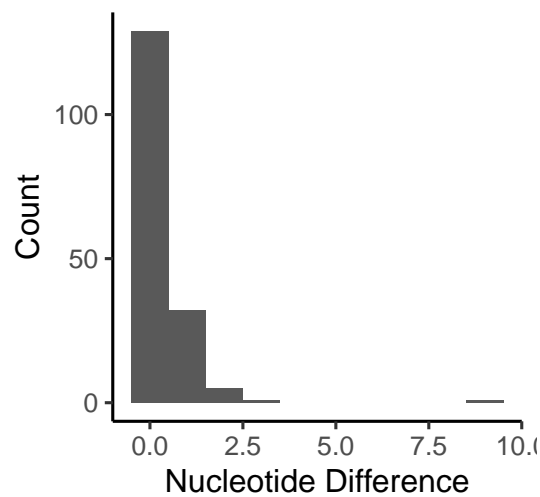
### IGHV3-72\*01

12 sequences assigned  
10 (83.3%) exact matches, in which:  
10 unique CDR3  
5 unique J



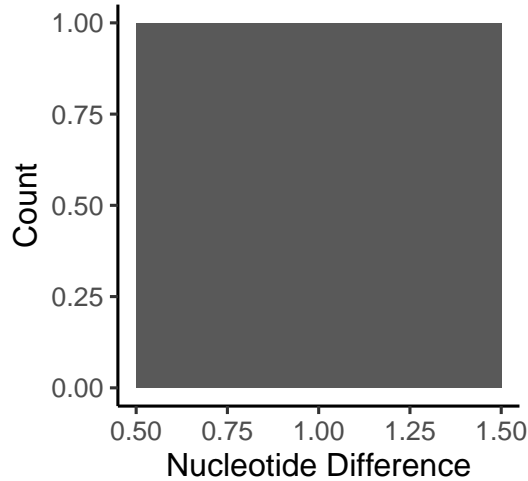
### IGHV3-49\*05

168 sequences assigned  
129 (76.8%) exact matches, in which:  
129 unique CDR3  
7 unique J



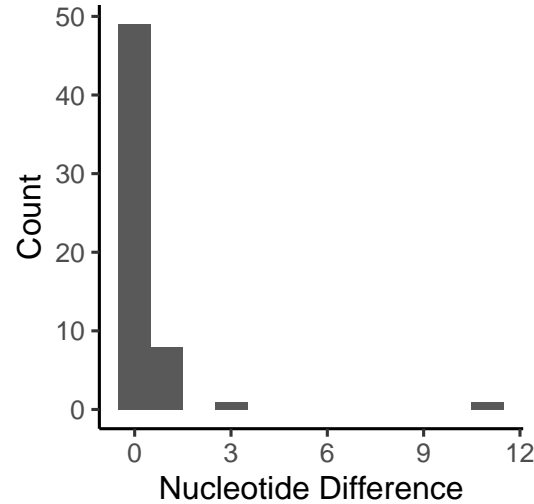
### IGHV3-66\*03

1 sequences assigned  
No exact matches.



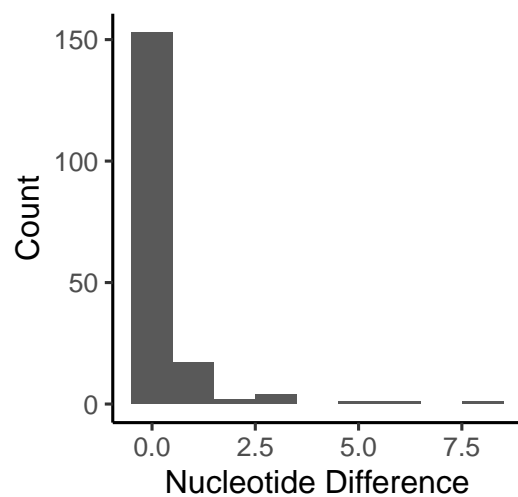
### IGHV3-73\*02

59 sequences assigned  
49 (83.1%) exact matches, in which:  
49 unique CDR3  
5 unique J



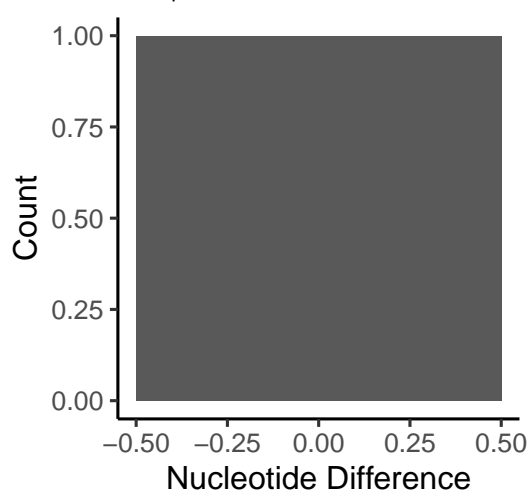
### IGHV3-53\*01

180 sequences assigned  
153 (85%) exact matches, in which:  
149 unique CDR3  
7 unique J



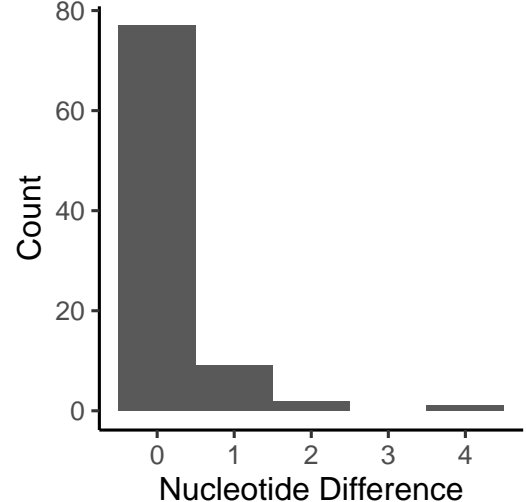
### IGHV3-69-1\*02

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



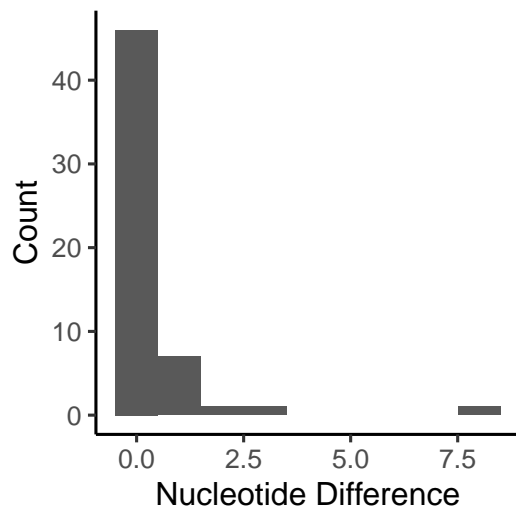
### IGHV3-74\*01

89 sequences assigned  
77 (86.5%) exact matches, in which:  
76 unique CDR3  
6 unique J



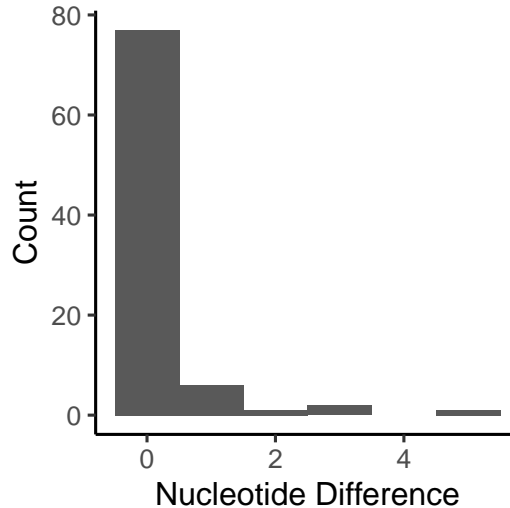
### IGHV3-64D\*06

56 sequences assigned  
46 (82.1%) exact matches, in which:  
46 unique CDR3  
6 unique J



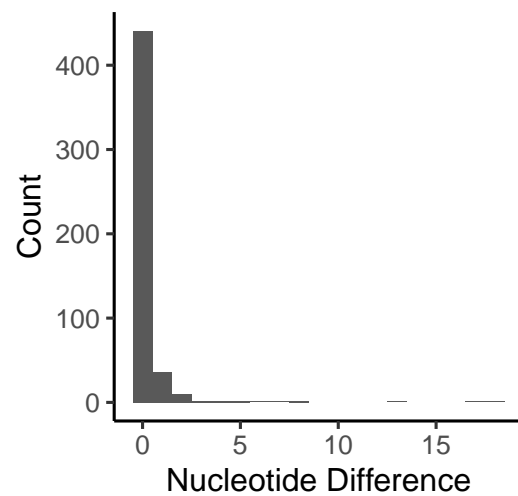
### IGHV4-30-2\*01

88 sequences assigned  
77 (87.5%) exact matches, in which:  
77 unique CDR3  
6 unique J



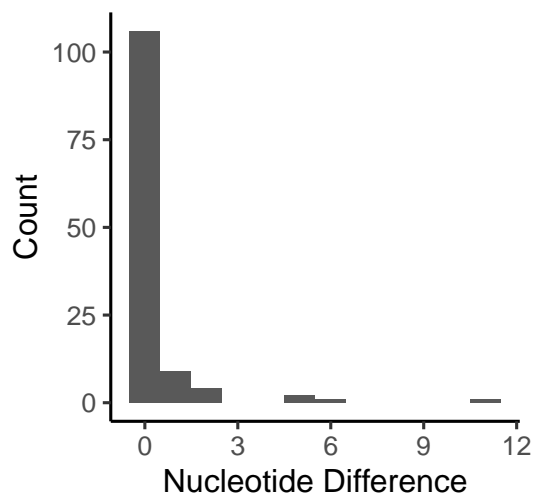
### IGHV4-34\*01

500 sequences assigned  
441 (88.2%) exact matches, in which:  
437 unique CDR3  
7 unique J



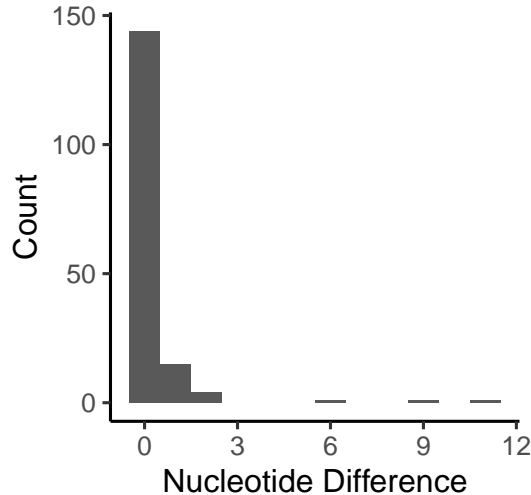
### IGHV4-4\*02

123 sequences assigned  
106 (86.2%) exact matches, in which:  
106 unique CDR3  
6 unique J



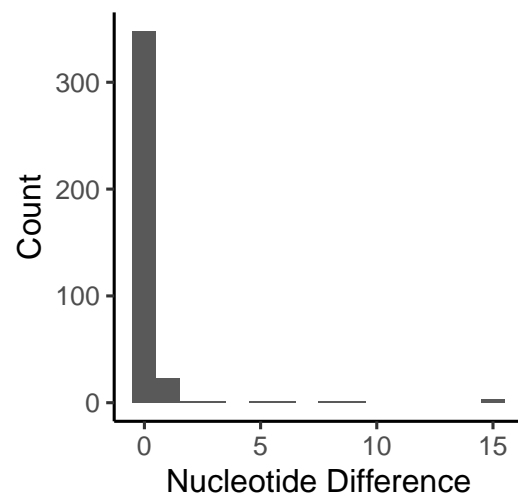
### IGHV4-30-4\*01

166 sequences assigned  
144 (86.7%) exact matches, in which:  
143 unique CDR3  
6 unique J



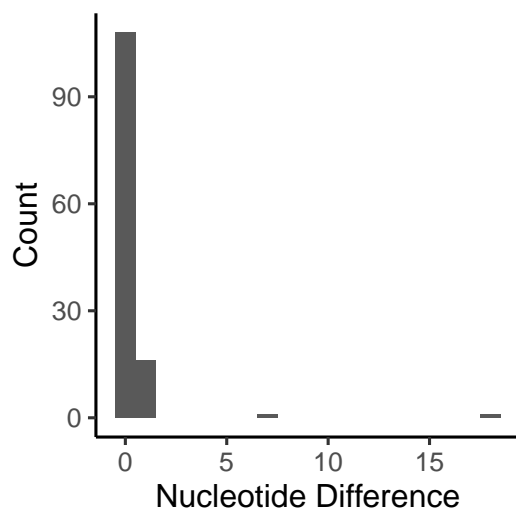
### IGHV4-39\*01

380 sequences assigned  
348 (91.6%) exact matches, in which:  
346 unique CDR3  
7 unique J



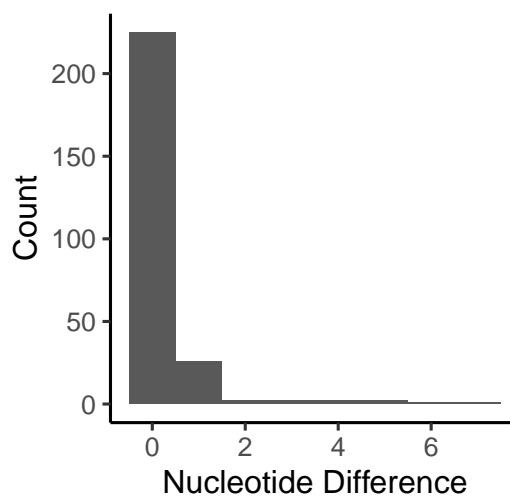
### IGHV4-4\*07

126 sequences assigned  
108 (85.7%) exact matches, in which:  
108 unique CDR3  
5 unique J



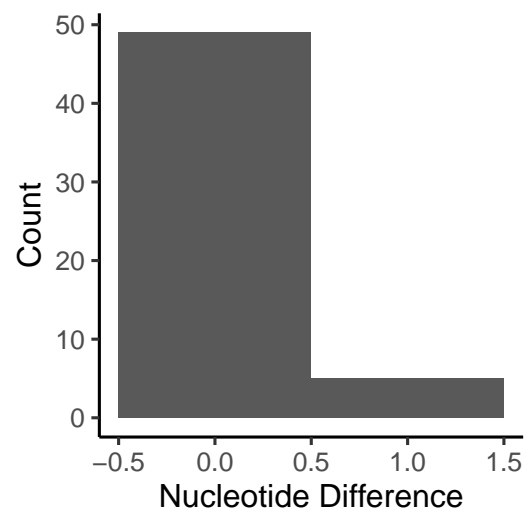
### IGHV4-31\*03

261 sequences assigned  
225 (86.2%) exact matches, in which:  
224 unique CDR3  
7 unique J



### IGHV4-39\*02\_C258G

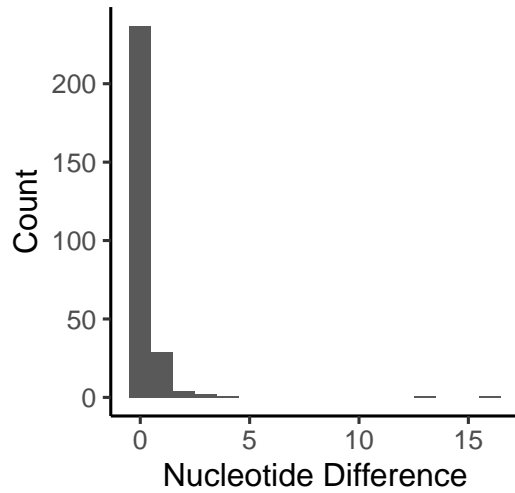
54 sequences assigned  
49 (90.7%) exact matches, in which:  
46 unique CDR3  
6 unique J





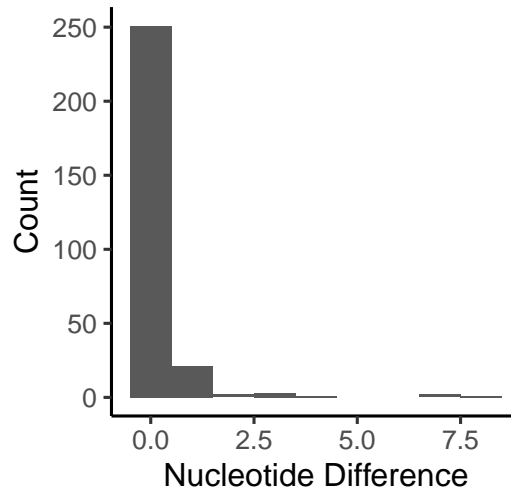
### IGHV4–59\*01

275 sequences assigned  
237 (86.2%) exact matches, in which:  
236 unique CDR3  
7 unique J



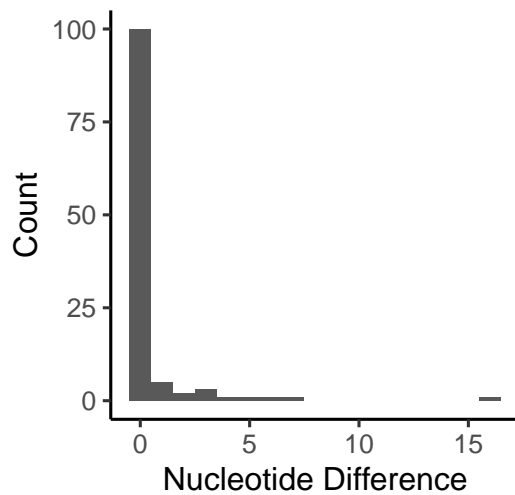
### IGHV5–51\*01

281 sequences assigned  
251 (89.3%) exact matches, in which:  
250 unique CDR3  
7 unique J



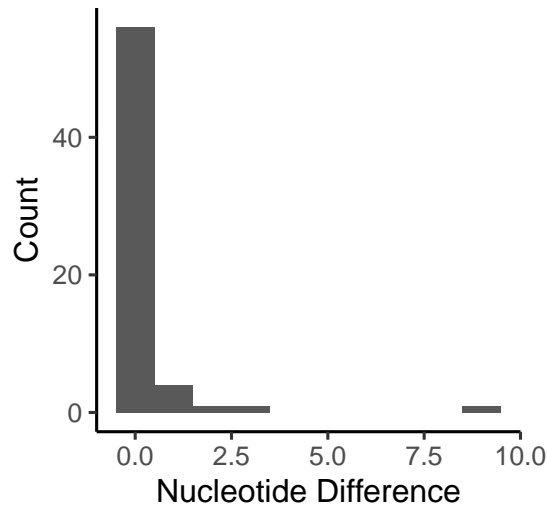
### IGHV4–61\*01

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



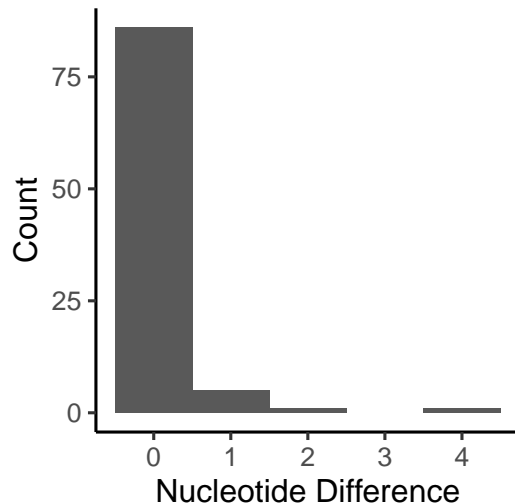
### IGHV6–1\*01

63 sequences assigned  
56 (88.9%) exact matches, in which:  
56 unique CDR3  
5 unique J



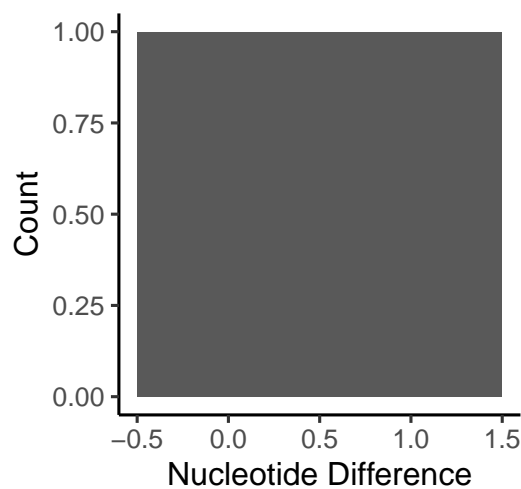
### IGHV5–10–1\*01

93 sequences assigned  
86 (92.5%) exact matches, in which:  
86 unique CDR3  
6 unique J

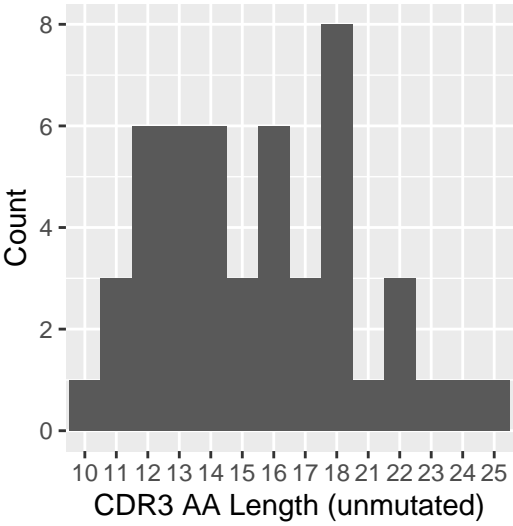


### IGHV7–4–1\*01

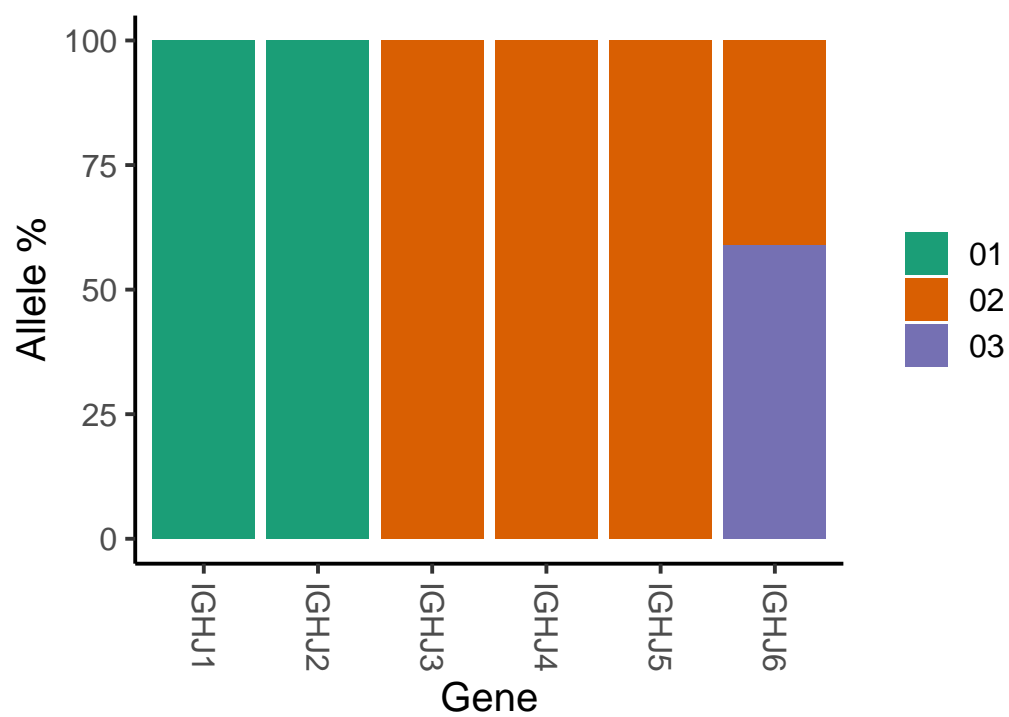
2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



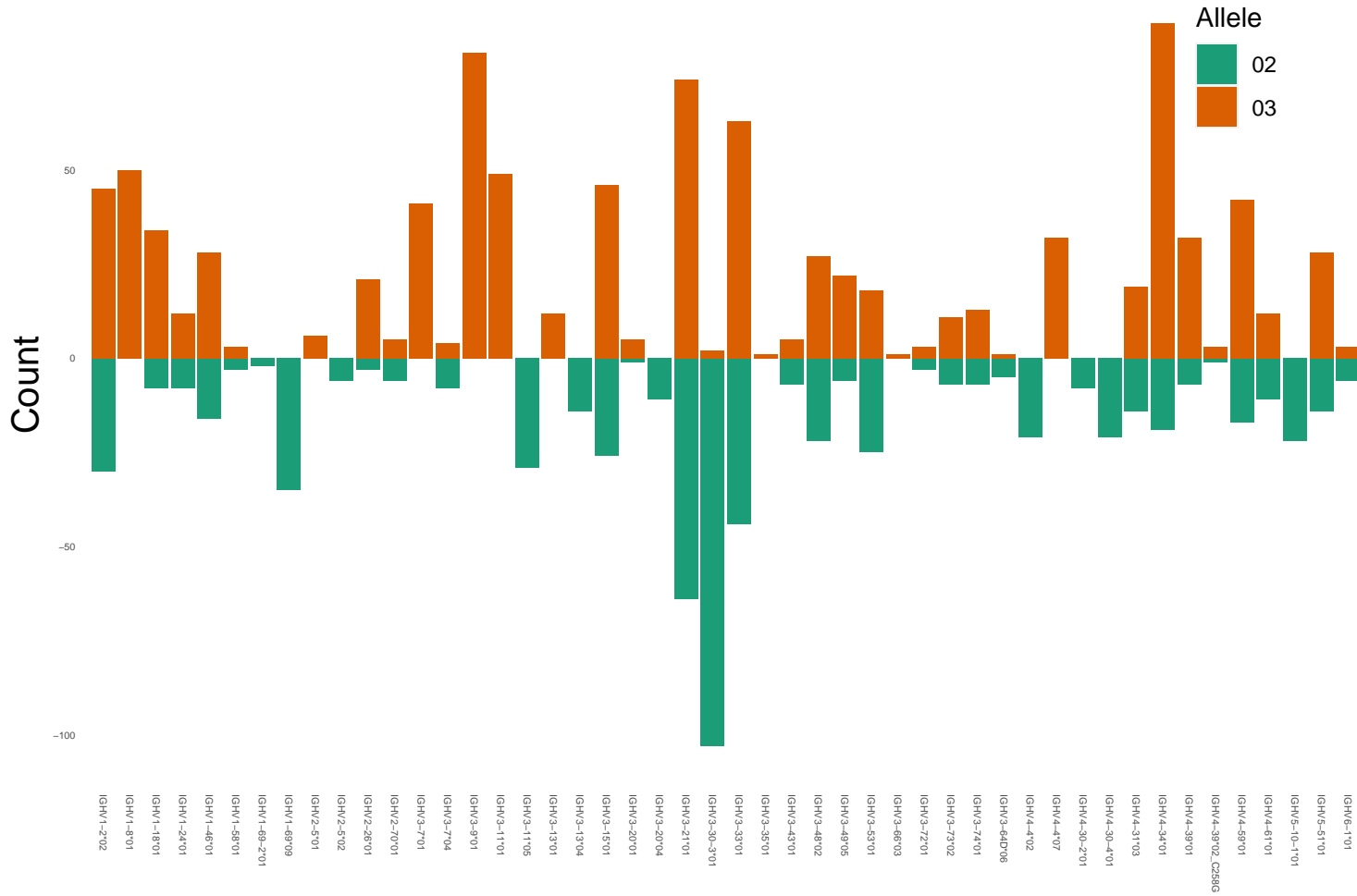
IGHV4-39\*02\_C258G



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

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