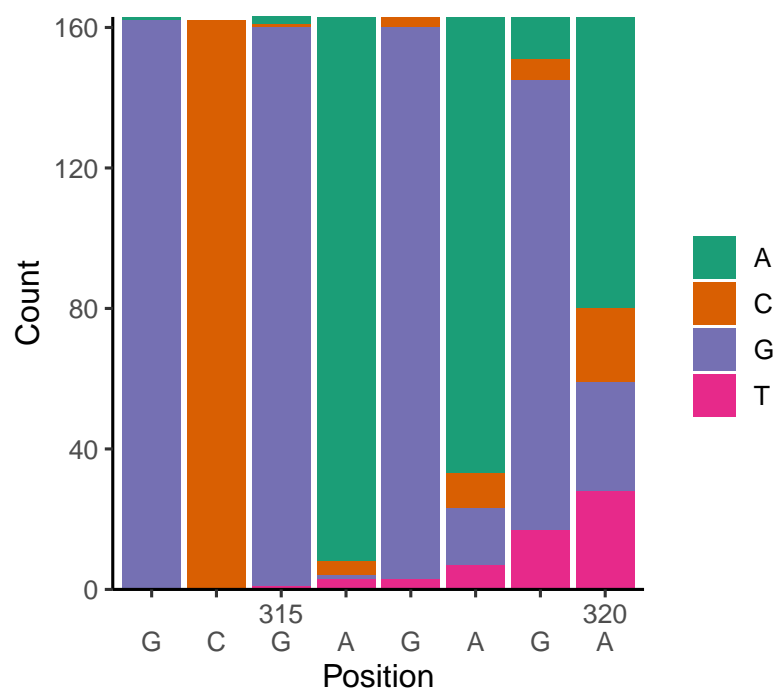
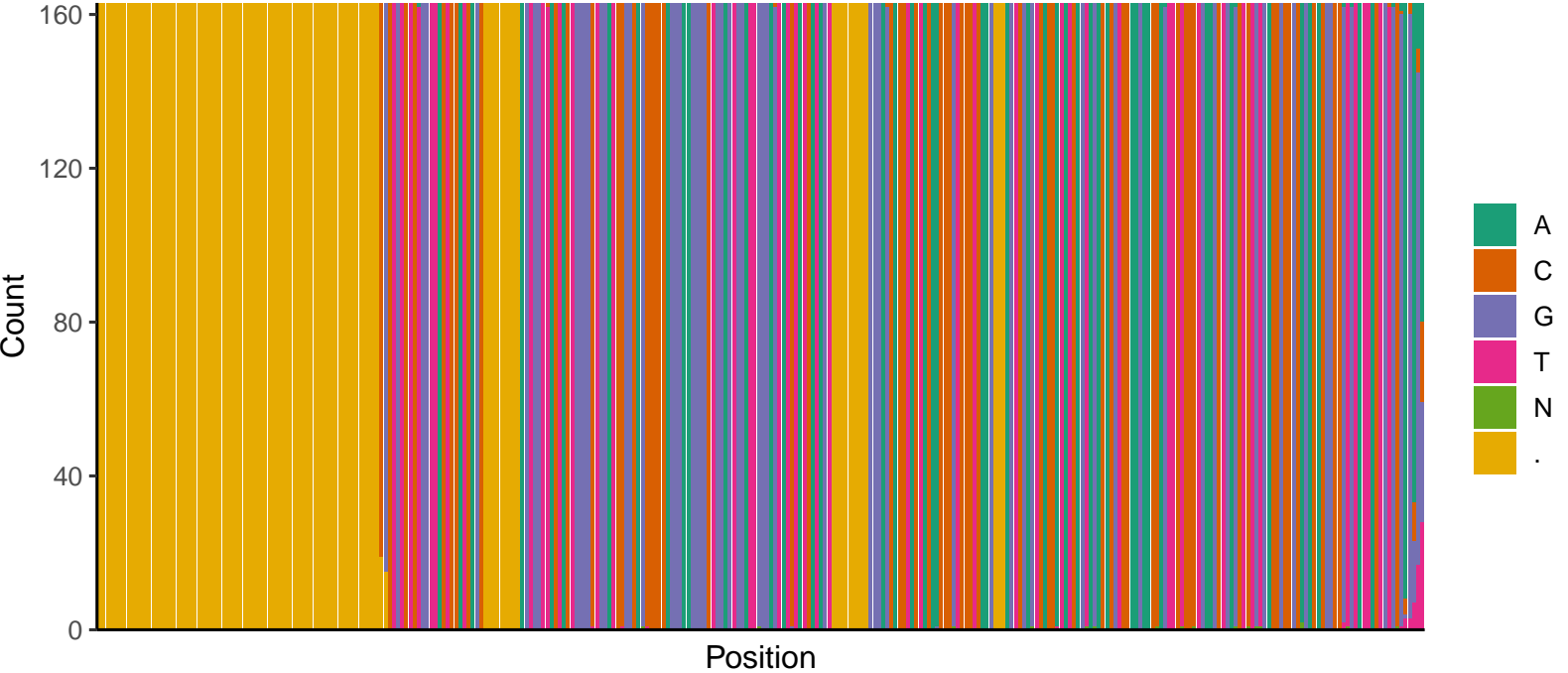


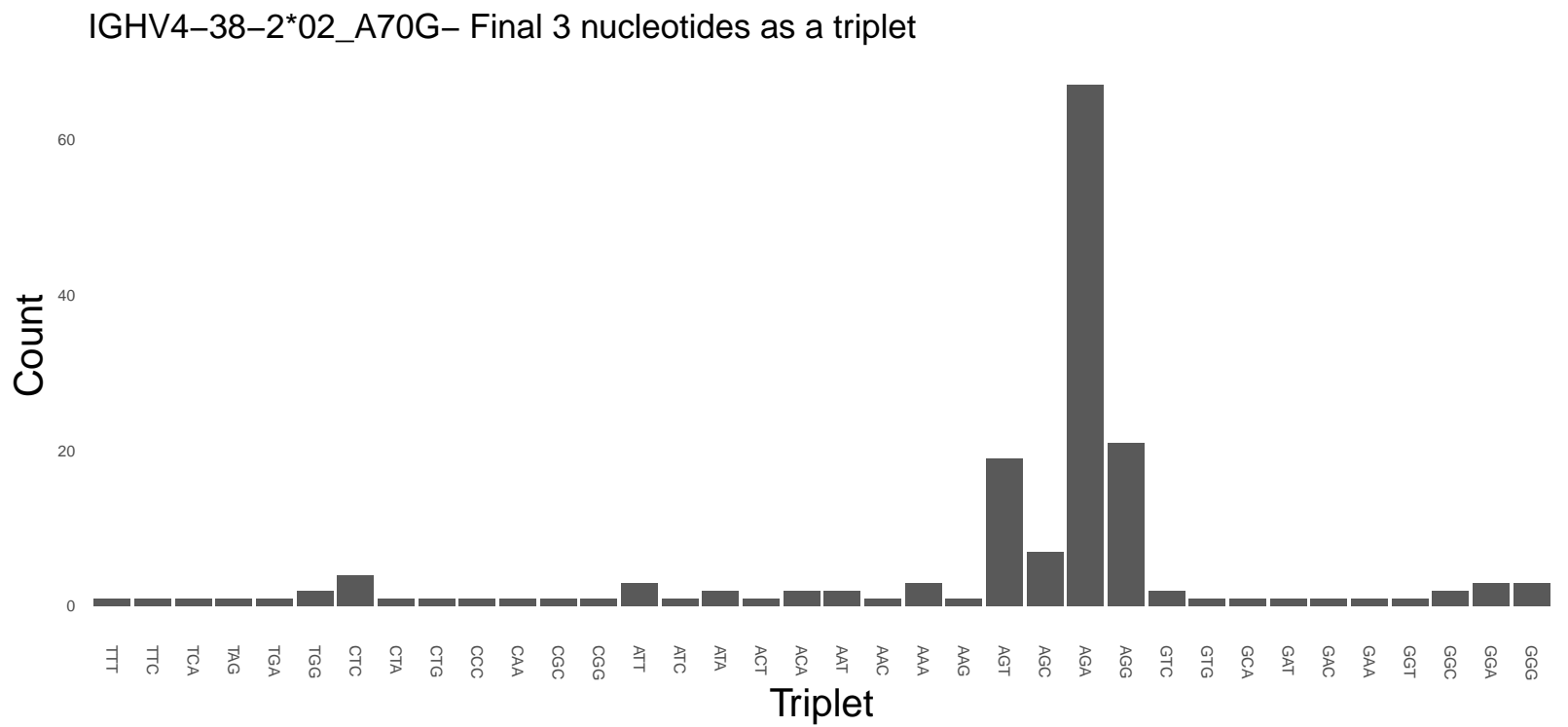
# Gene IGHV4-38-2\*02\_A70G



Gene IGHV4-38-2\*02\_A70G

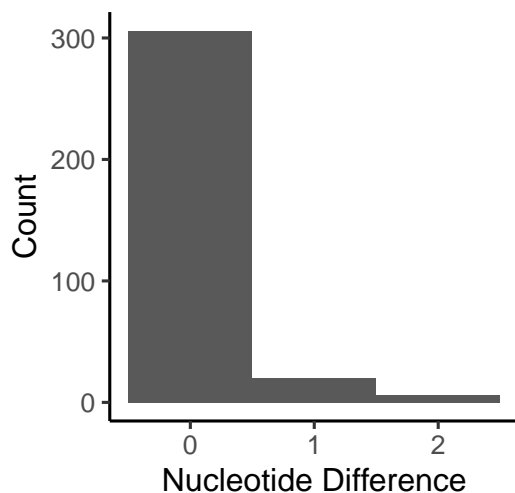


IGHV4-38-2\*02\_A70G- Final 3 nucleotides as a triplet



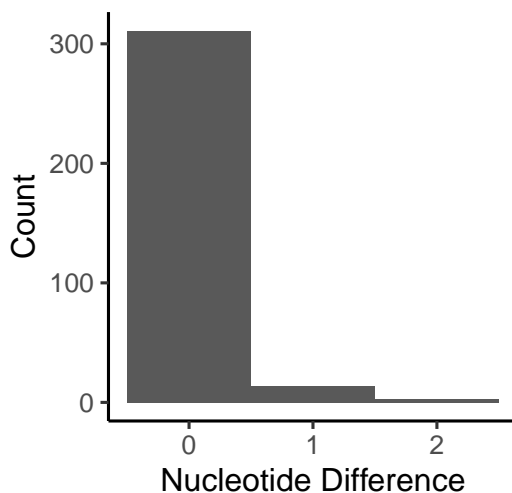
### IGHV1-2\*02

332 sequences assigned  
306 (92.2%) exact matches, in which:  
306 unique CDR3  
6 unique J



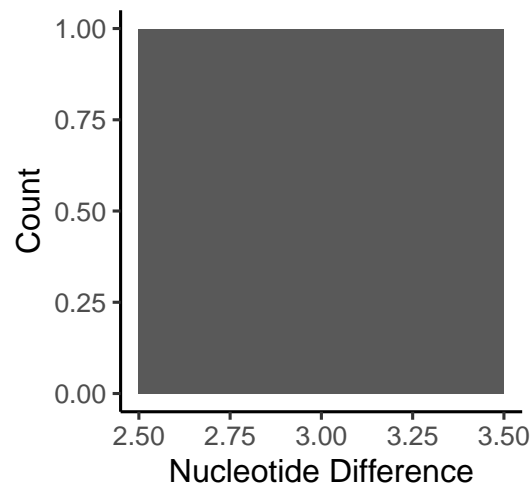
### IGHV1-18\*01

328 sequences assigned  
311 (94.8%) exact matches, in which:  
311 unique CDR3  
6 unique J



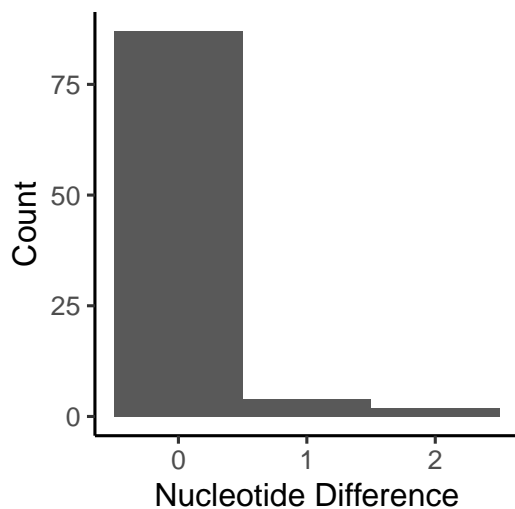
### IGHV1-38-4\*01

1 sequences assigned  
No exact matches.



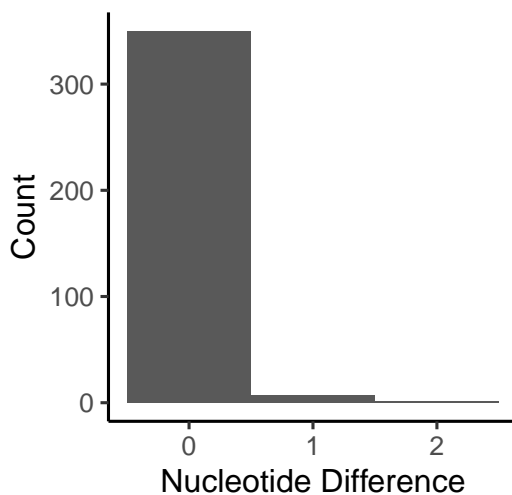
### IGHV1-2\*04

93 sequences assigned  
87 (93.5%) exact matches, in which:  
87 unique CDR3  
5 unique J



### IGHV1-18\*04

358 sequences assigned  
350 (97.8%) exact matches, in which:  
350 unique CDR3  
6 unique J



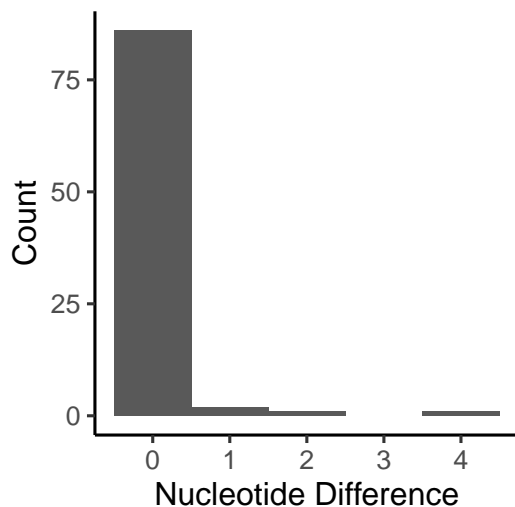
### IGHV1-45\*02

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



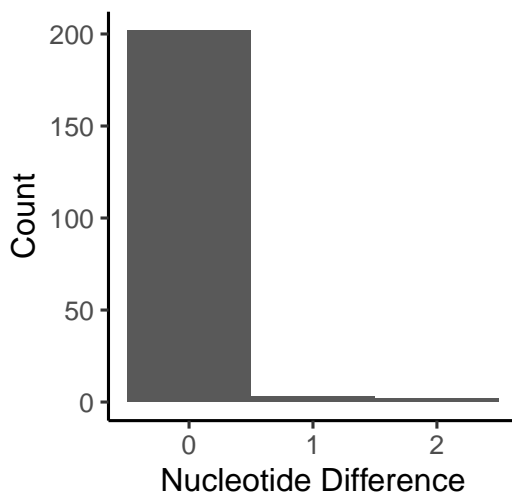
### IGHV1-3\*01\_05

90 sequences assigned  
86 (95.6%) exact matches, in which:  
86 unique CDR3  
6 unique J



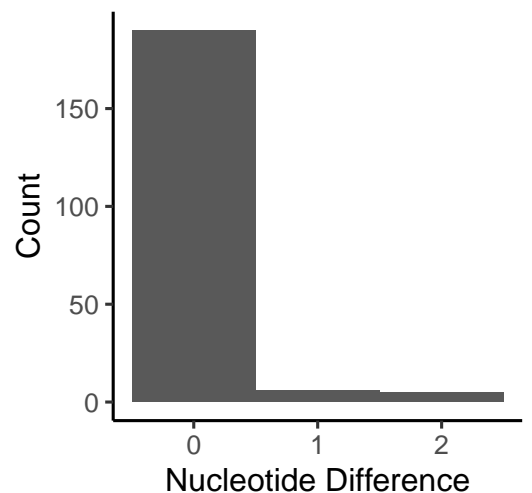
### IGHV1-24\*01

207 sequences assigned  
202 (97.6%) exact matches, in which:  
202 unique CDR3  
6 unique J



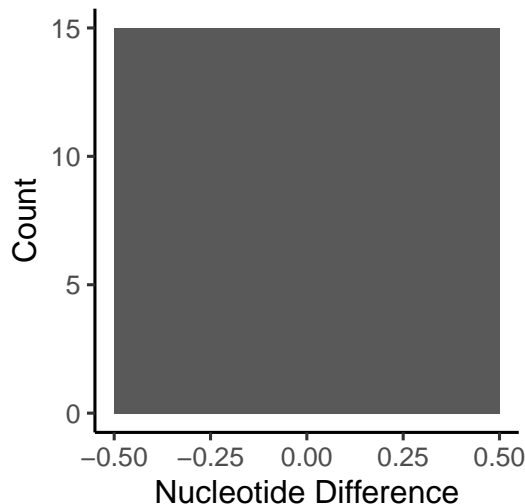
### IGHV1-46\*01

201 sequences assigned  
190 (94.5%) exact matches, in which:  
190 unique CDR3  
6 unique J



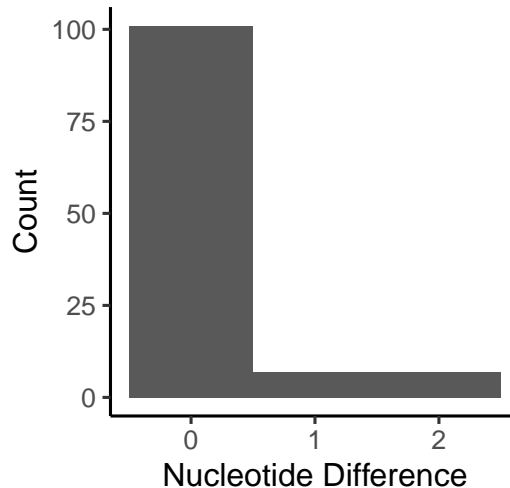
### IGHV1–58\*02

15 sequences assigned  
15 (100%) exact matches, in which:  
15 unique CDR3  
5 unique J



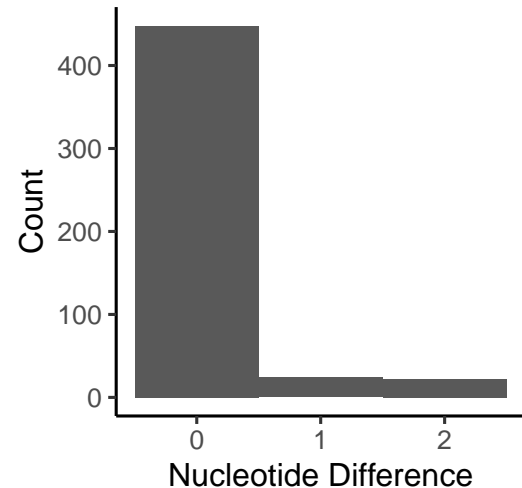
### IGHV2–5\*02

115 sequences assigned  
101 (87.8%) exact matches, in which:  
100 unique CDR3  
6 unique J



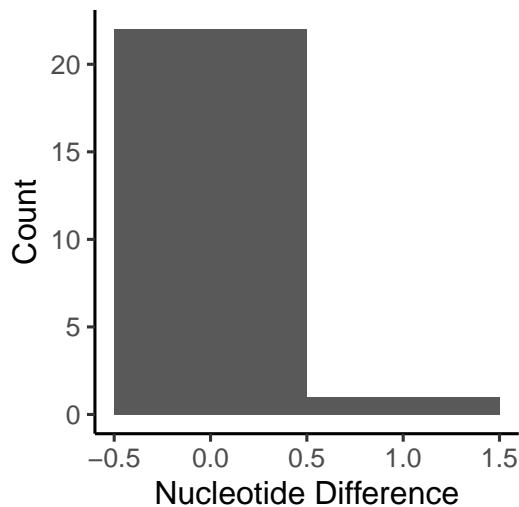
### IGHV3–7\*03

494 sequences assigned  
448 (90.7%) exact matches, in which:  
435 unique CDR3  
6 unique J



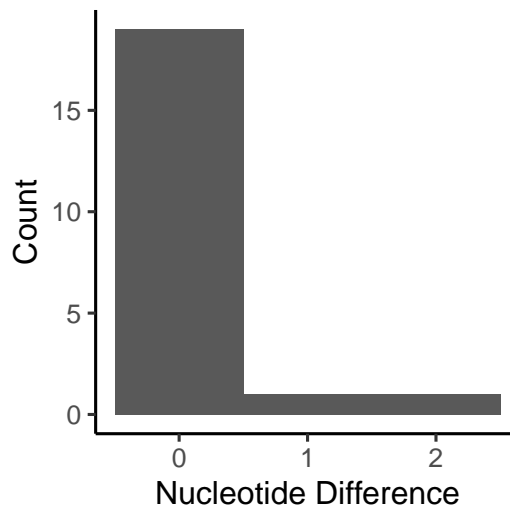
### IGHV1–58\*01\_03

23 sequences assigned  
22 (95.7%) exact matches, in which:  
22 unique CDR3  
5 unique J



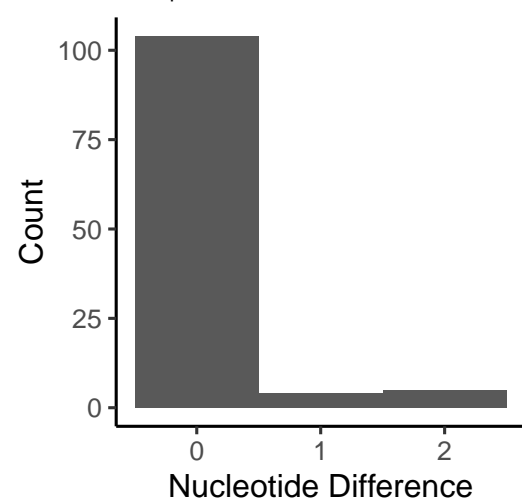
### IGHV2–26\*01

21 sequences assigned  
19 (90.5%) exact matches, in which:  
19 unique CDR3  
5 unique J



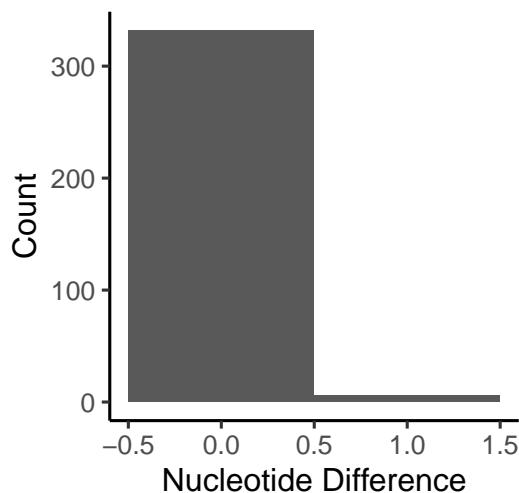
### IGHV3–11\*06

113 sequences assigned  
104 (92%) exact matches, in which:  
99 unique CDR3  
5 unique J



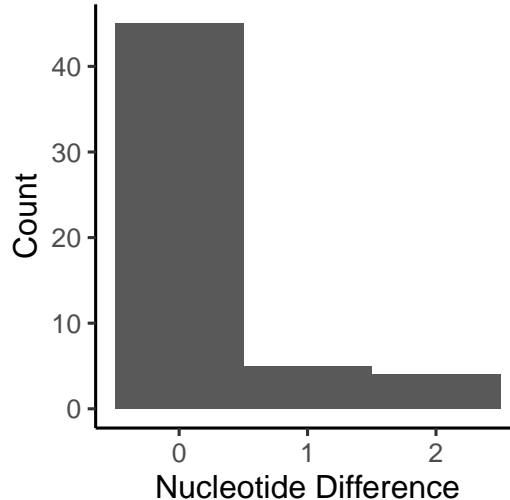
### IGHV1–69\*06\_14

338 sequences assigned  
332 (98.2%) exact matches, in which:  
332 unique CDR3  
6 unique J



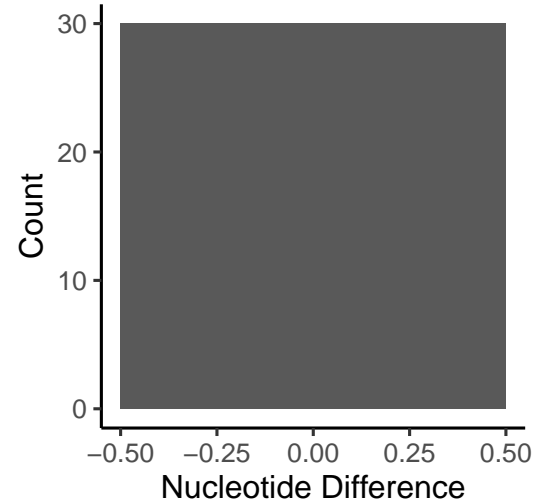
### IGHV2–70\*01

54 sequences assigned  
45 (83.3%) exact matches, in which:  
44 unique CDR3  
4 unique J



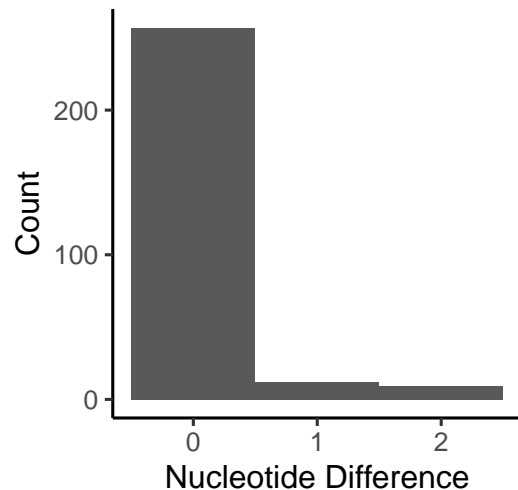
### IGHV3–13\*05

30 sequences assigned  
30 (100%) exact matches, in which:  
28 unique CDR3  
5 unique J



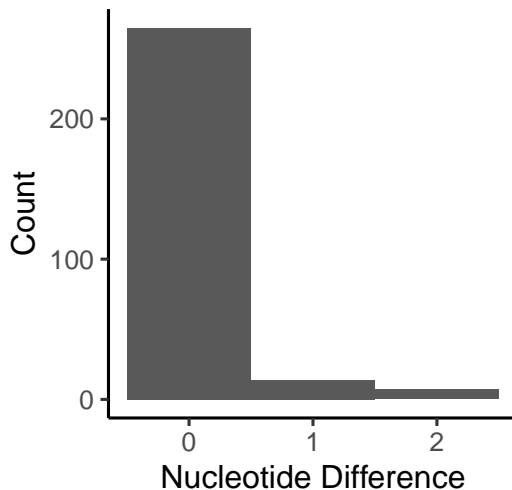
### IGHV3–15\*01\_02

278 sequences assigned  
257 (92.4%) exact matches, in which:  
249 unique CDR3  
6 unique J



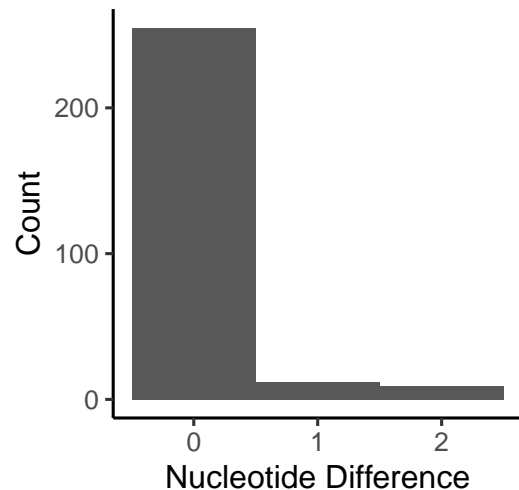
### IGHV3–33\*01

286 sequences assigned  
265 (92.7%) exact matches, in which:  
263 unique CDR3  
6 unique J



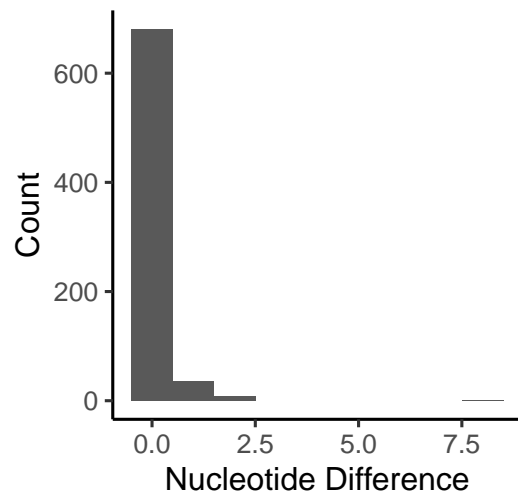
### IGHV3–48\*03

276 sequences assigned  
255 (92.4%) exact matches, in which:  
252 unique CDR3  
6 unique J



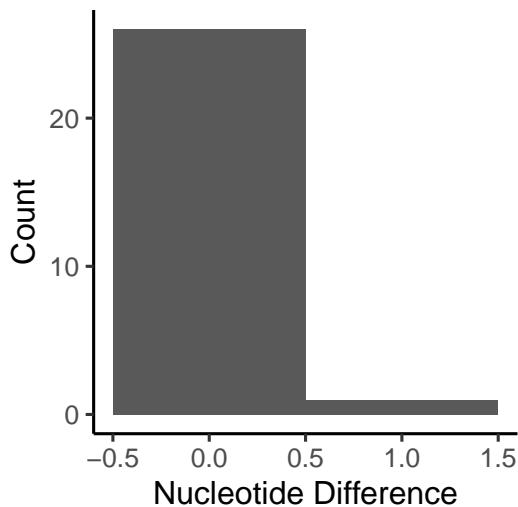
### IGHV3–21\*01\_02

726 sequences assigned  
681 (93.8%) exact matches, in which:  
669 unique CDR3  
6 unique J



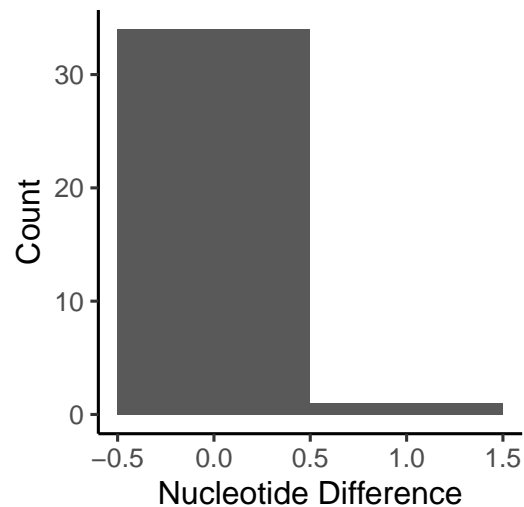
### IGHV3–43\*01

27 sequences assigned  
26 (96.3%) exact matches, in which:  
25 unique CDR3  
4 unique J



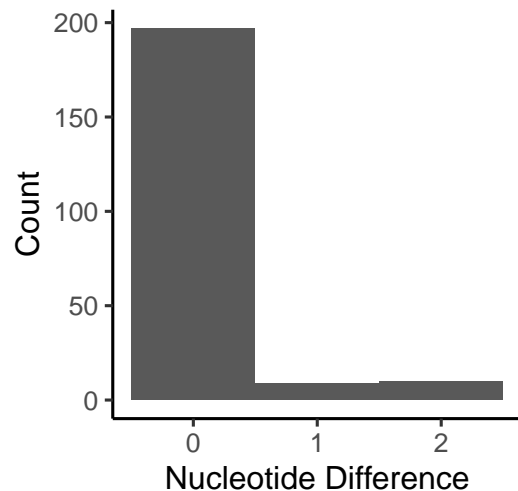
### IGHV3–49\*04

35 sequences assigned  
34 (97.1%) exact matches, in which:  
34 unique CDR3  
6 unique J



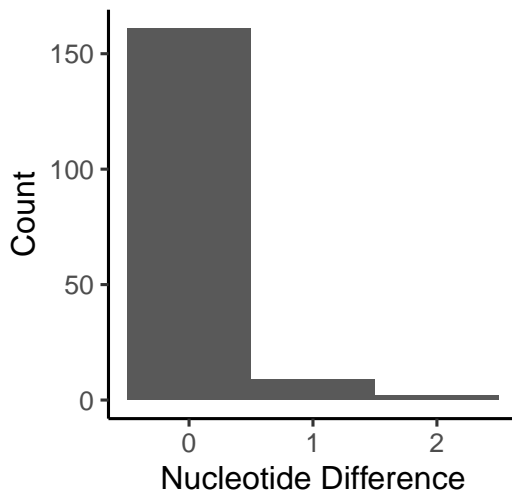
### IGHV3–30\*01

216 sequences assigned  
197 (91.2%) exact matches, in which:  
194 unique CDR3  
6 unique J



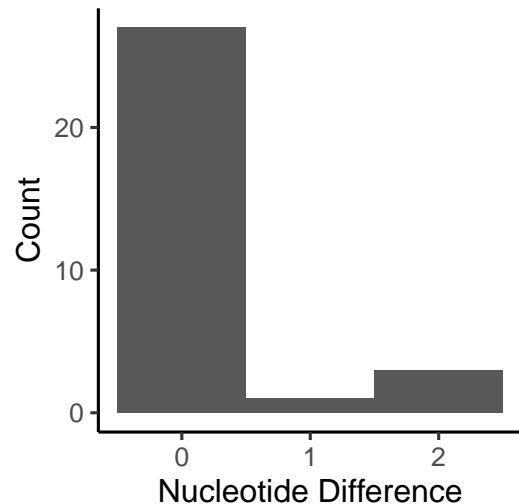
### IGHV3–48\*01

172 sequences assigned  
161 (93.6%) exact matches, in which:  
158 unique CDR3  
6 unique J



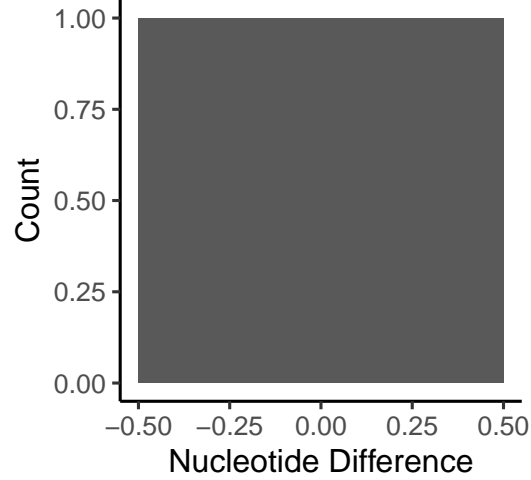
### IGHV3–49\*03\_05

31 sequences assigned  
27 (87.1%) exact matches, in which:  
27 unique CDR3  
4 unique J



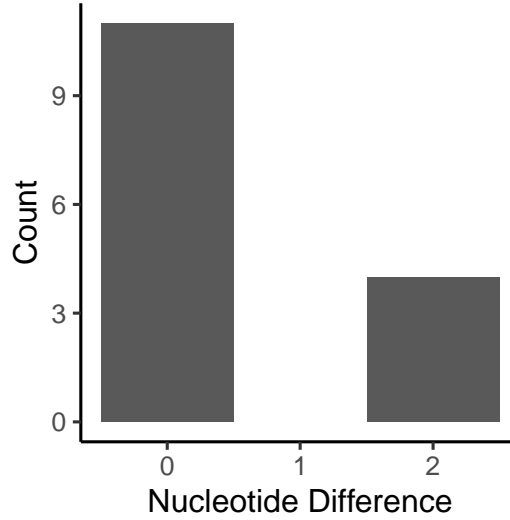
### IGHV3–52\*01\_03

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



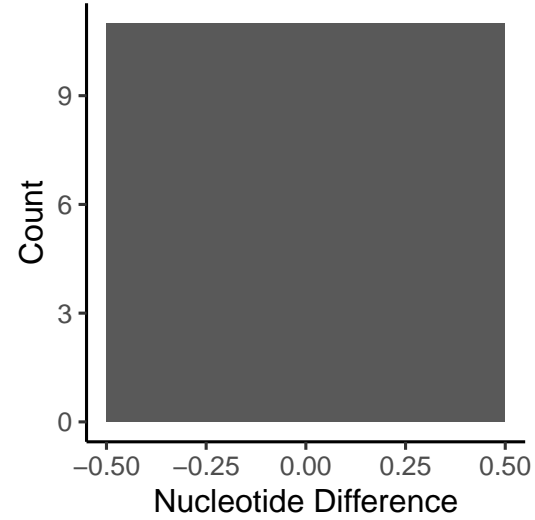
### IGHV3–72\*01

15 sequences assigned  
11 (73.3%) exact matches, in which:  
11 unique CDR3  
3 unique J



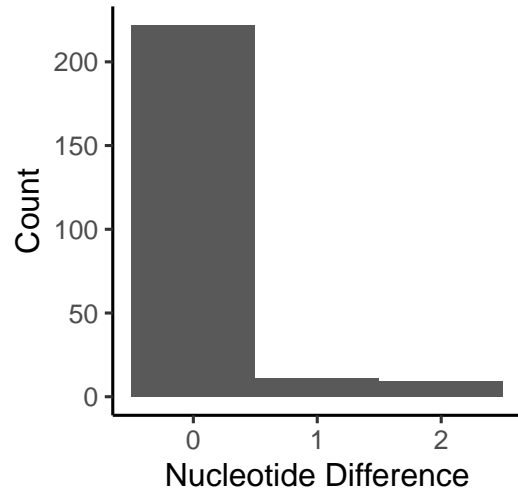
### IGHV3–43D\*04

11 sequences assigned  
11 (100%) exact matches, in which:  
11 unique CDR3  
3 unique J



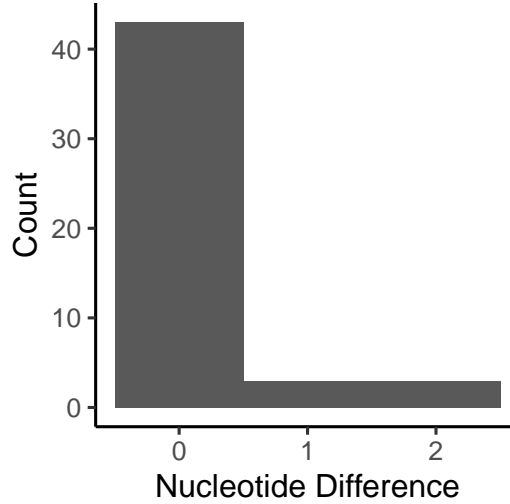
### IGHV3–53\*01\_02

242 sequences assigned  
222 (91.7%) exact matches, in which:  
214 unique CDR3  
6 unique J



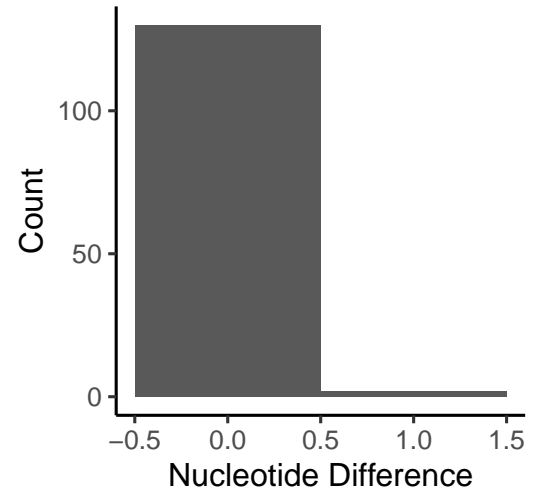
### IGHV3–73\*01\_02

49 sequences assigned  
43 (87.8%) exact matches, in which:  
40 unique CDR3  
4 unique J



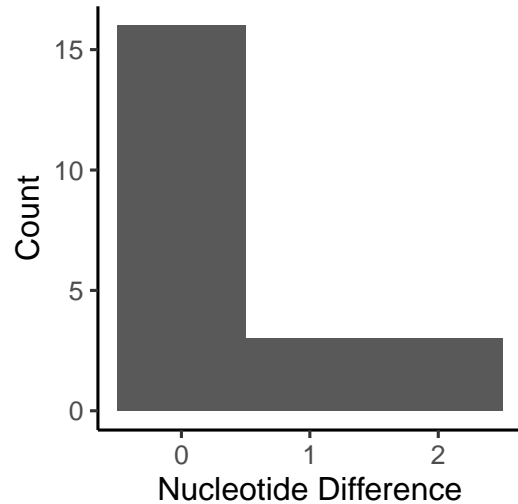
### IGHV3–64D\*06

132 sequences assigned  
130 (98.5%) exact matches, in which:  
129 unique CDR3  
6 unique J



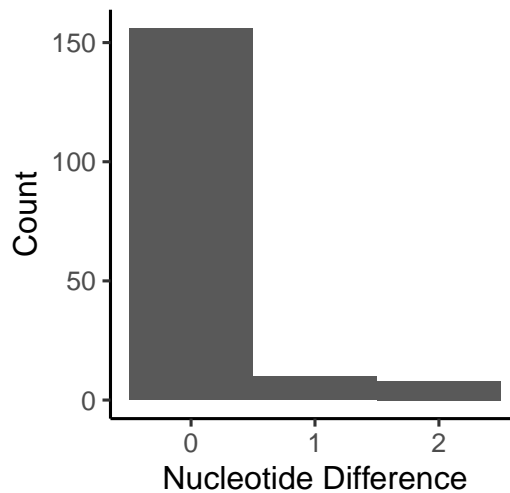
### IGHV3–64\*01

22 sequences assigned  
16 (72.7%) exact matches, in which:  
15 unique CDR3  
3 unique J



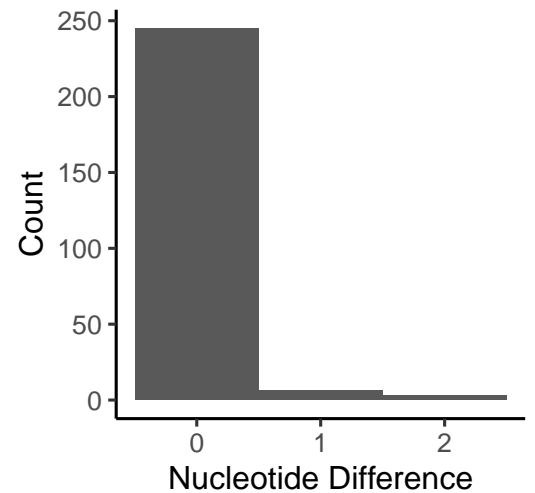
### IGHV3–74\*01\_02

174 sequences assigned  
156 (89.7%) exact matches, in which:  
146 unique CDR3  
6 unique J



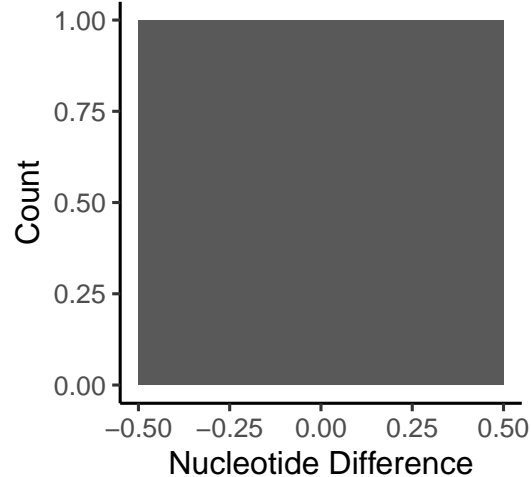
### IGHV4–4\*07

254 sequences assigned  
245 (96.5%) exact matches, in which:  
241 unique CDR3  
6 unique J



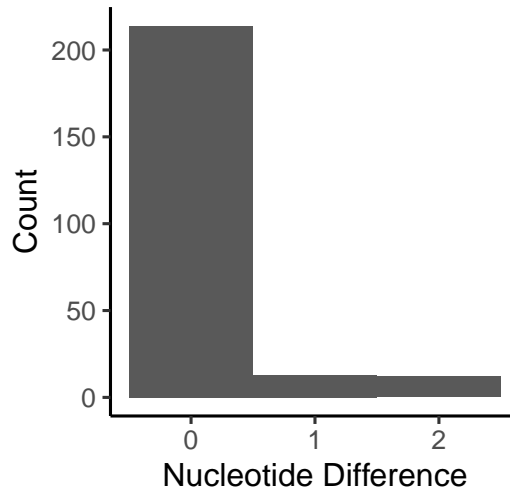
### IGHV4-28\*01\_07

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



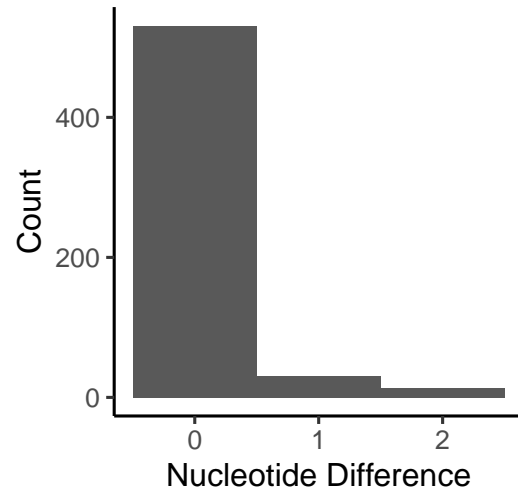
### IGHV4-31\*03\_04

239 sequences assigned  
214 (89.5%) exact matches, in which:  
214 unique CDR3  
6 unique J



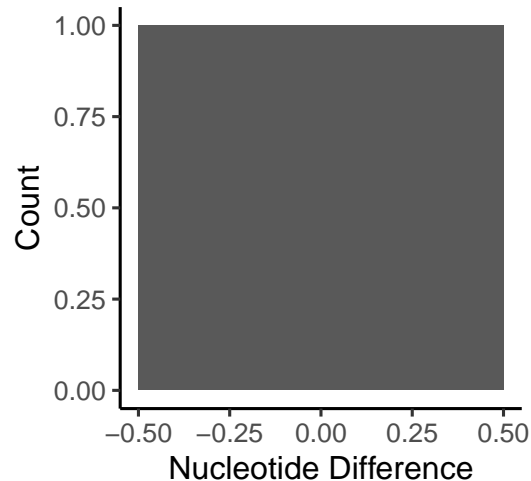
### IGHV4-39\*01\_05

574 sequences assigned  
531 (92.5%) exact matches, in which:  
522 unique CDR3  
6 unique J



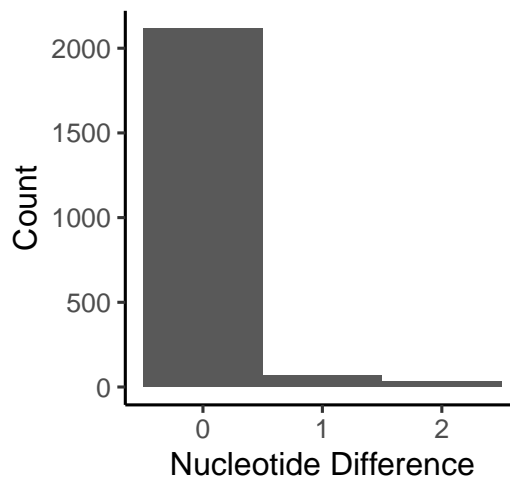
### IGHV4-28\*02\_05

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



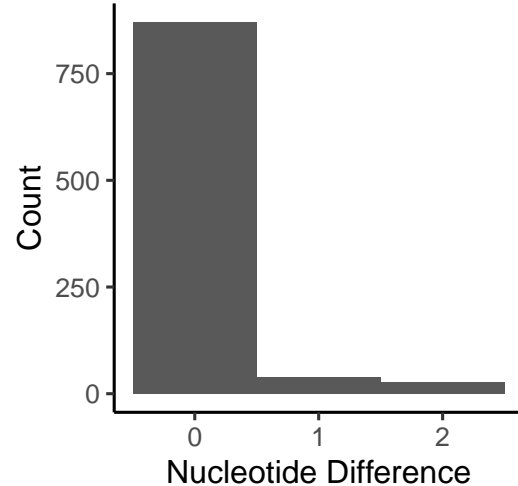
### IGHV4-34\*01\_02

2212 sequences assigned  
2115 (95.6%) exact matches, in which:  
2097 unique CDR3  
6 unique J



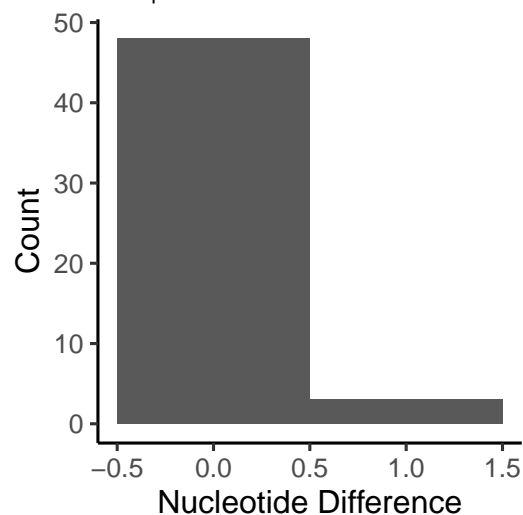
### IGHV4-59\*01\_07

937 sequences assigned  
871 (93%) exact matches, in which:  
851 unique CDR3  
6 unique J



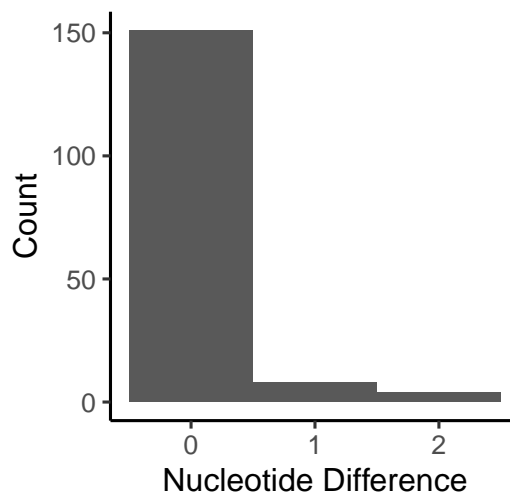
### IGHV4-31\*01

51 sequences assigned  
48 (94.1%) exact matches, in which:  
47 unique CDR3  
5 unique J



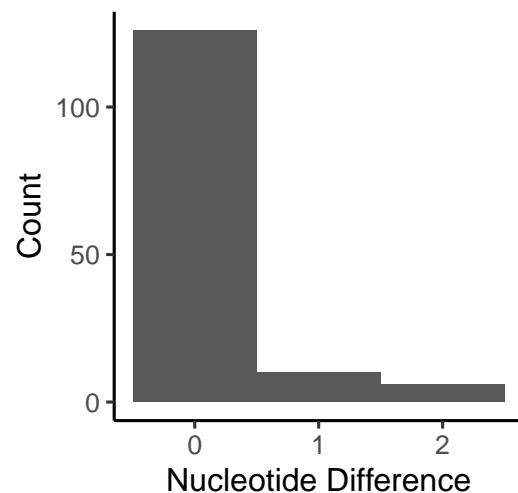
### IGHV4-38-2\*02\_A70G

163 sequences assigned  
151 (92.6%) exact matches, in which:  
149 unique CDR3  
6 unique J



### IGHV4-61\*01

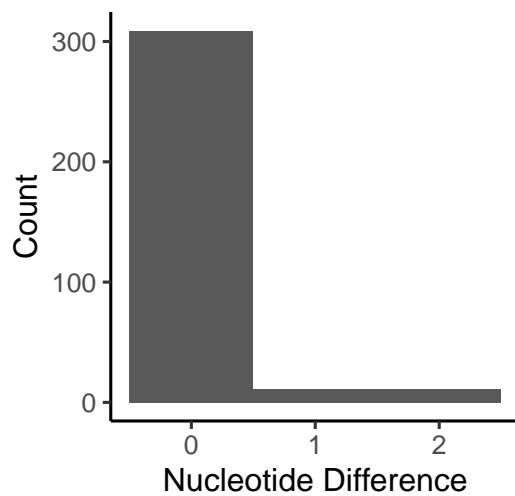
142 sequences assigned  
126 (88.7%) exact matches, in which:  
123 unique CDR3  
5 unique J





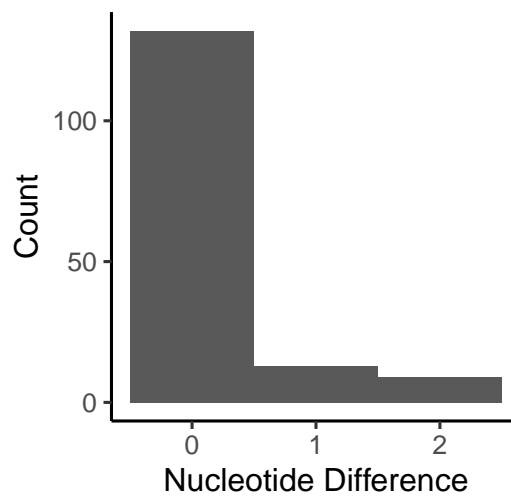
### IGHV4–61\*02

331 sequences assigned  
309 (93.4%) exact matches, in which:  
305 unique CDR3  
6 unique J



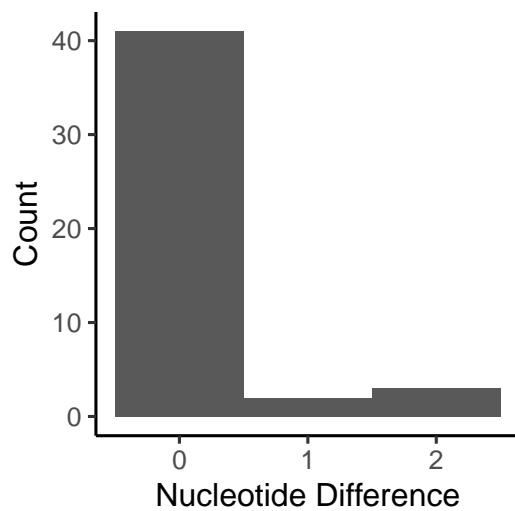
### IGHV6–1\*01\_02

154 sequences assigned  
132 (85.7%) exact matches, in which:  
132 unique CDR3  
6 unique J



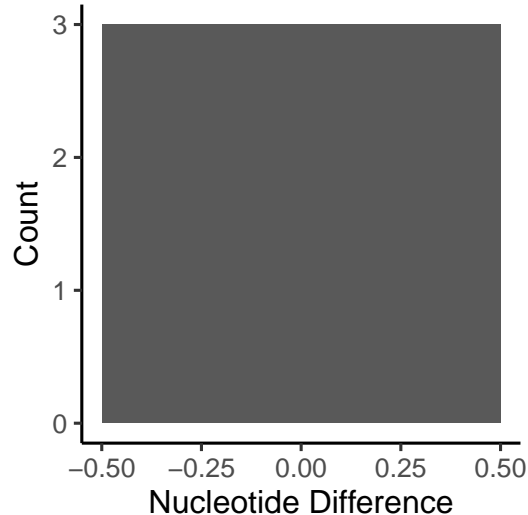
### IGHV5–10–1\*01\_03

46 sequences assigned  
41 (89.1%) exact matches, in which:  
41 unique CDR3  
5 unique J



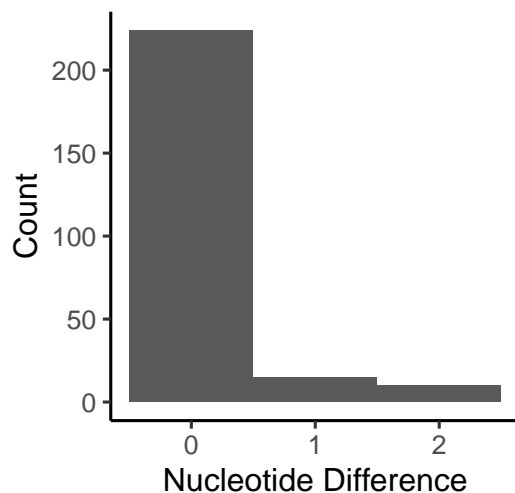
### IGHV7–4–1\*01

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



### IGHV5–51\*01\_03

249 sequences assigned  
224 (90%) exact matches, in which:  
224 unique CDR3  
6 unique J





Warning - no inferred sequences found.