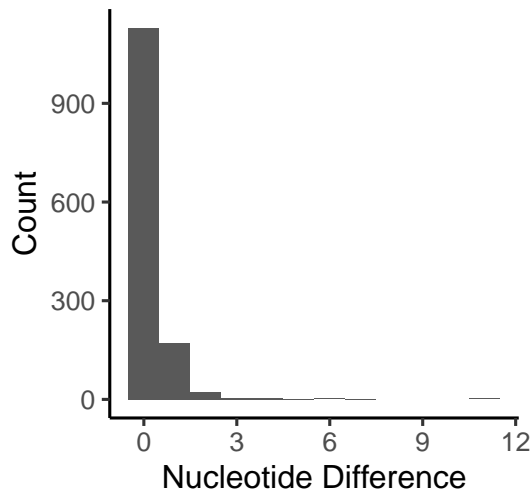


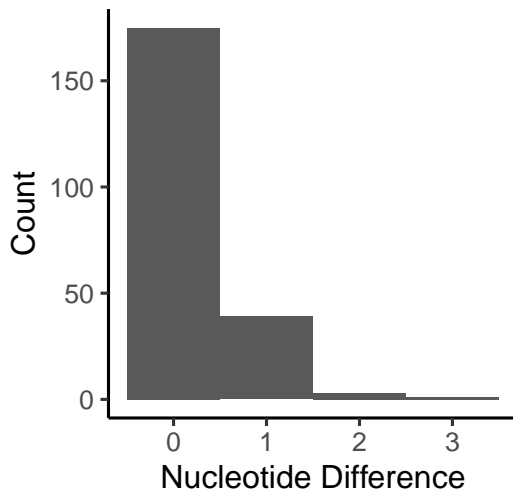
### IGKV1-5\*01

1342 sequences assigned  
1130 (84.2%) exact matches, in which:  
894 unique CDR3  
5 unique J



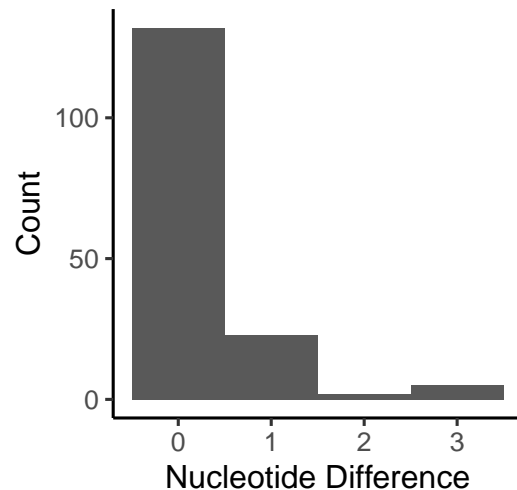
### IGKV1-8\*01

218 sequences assigned  
175 (80.3%) exact matches, in which:  
140 unique CDR3  
5 unique J



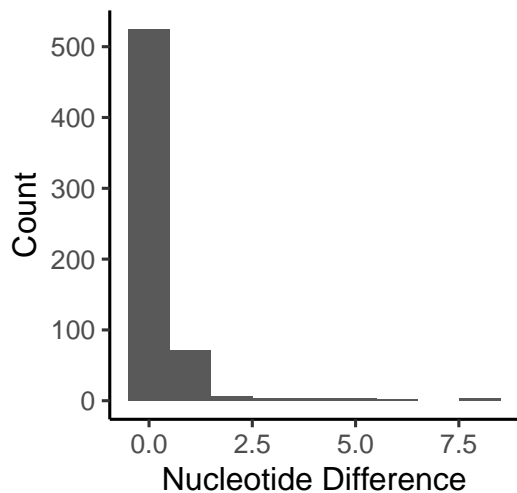
### IGKV1-16\*02

162 sequences assigned  
132 (81.5%) exact matches, in which:  
98 unique CDR3  
5 unique J



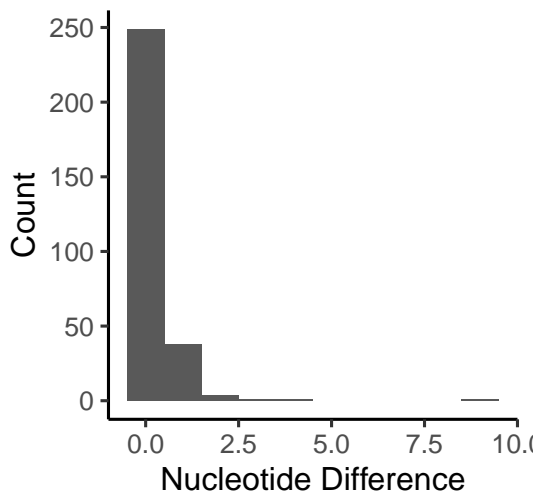
### IGKV1-5\*03

618 sequences assigned  
525 (85%) exact matches, in which:  
448 unique CDR3  
5 unique J



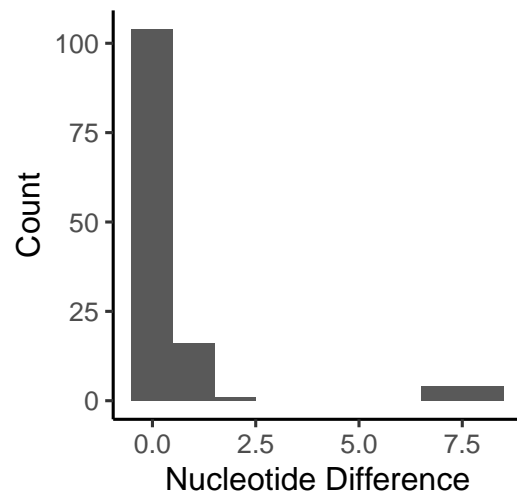
### IGKV1-8\*01\_T31C

294 sequences assigned  
249 (84.7%) exact matches, in which:  
209 unique CDR3  
5 unique J



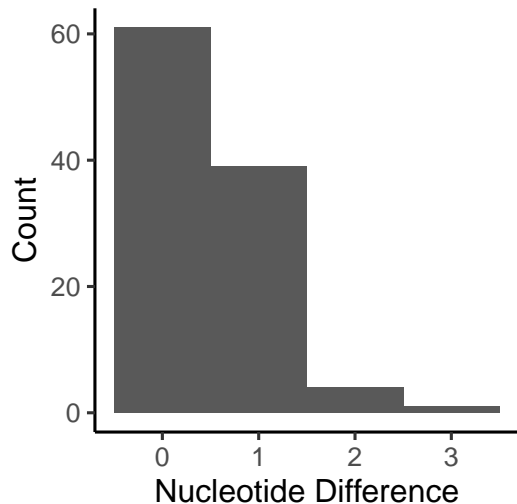
### IGKV1-17\*01

129 sequences assigned  
104 (80.6%) exact matches, in which:  
83 unique CDR3  
5 unique J



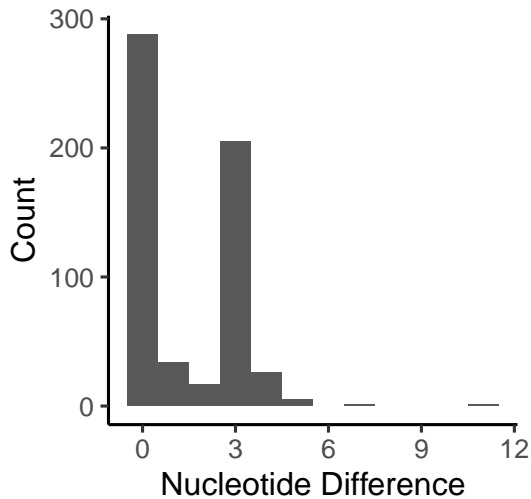
### IGKV1-6\*01

105 sequences assigned  
61 (58.1%) exact matches, in which:  
47 unique CDR3  
4 unique J



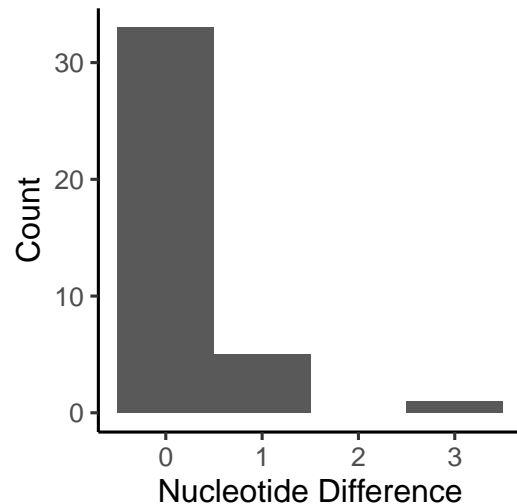
### IGKV1-9\*01

577 sequences assigned  
288 (49.9%) exact matches, in which:  
238 unique CDR3  
5 unique J



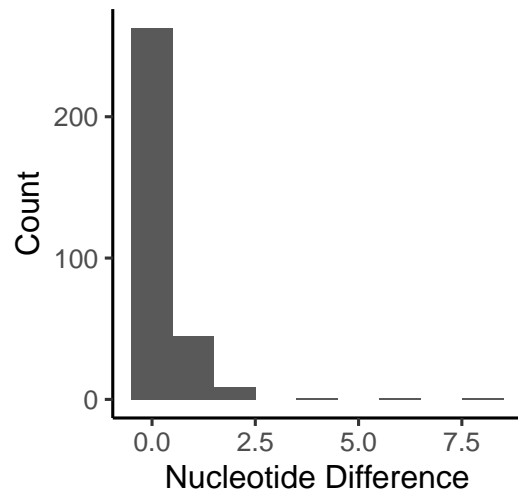
### IGKV1-17\*03

39 sequences assigned  
33 (84.6%) exact matches, in which:  
28 unique CDR3  
5 unique J



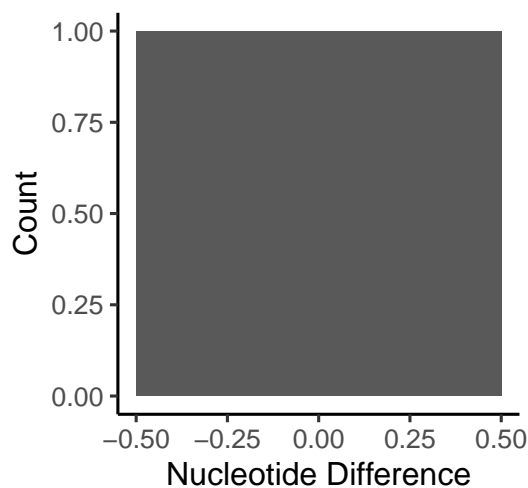
### IGKV1–27\*01

320 sequences assigned  
263 (82.2%) exact matches, in which:  
210 unique CDR3  
5 unique J



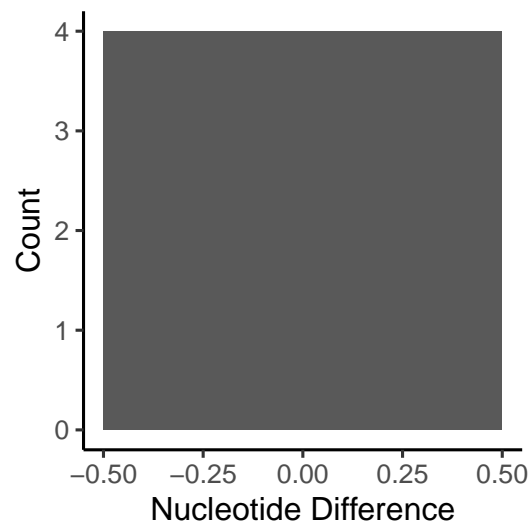
### IGKV2–18\*01

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



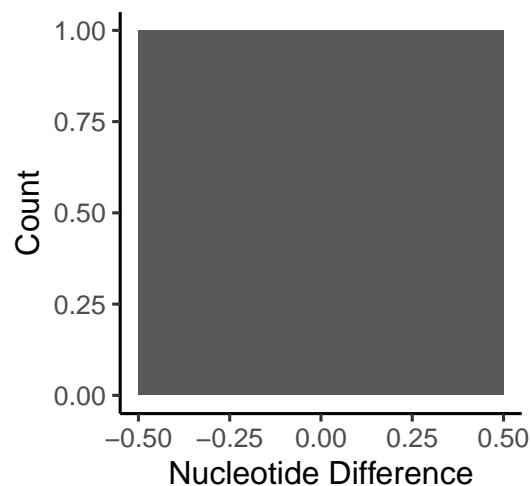
### IGKV3/OR2–268\*01

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



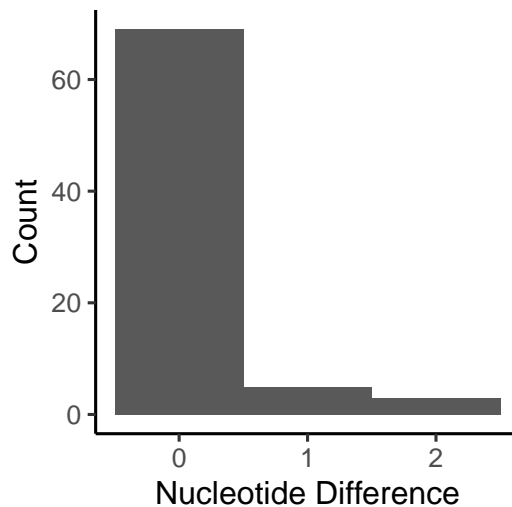
### IGKV1/OR2–1\*01

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



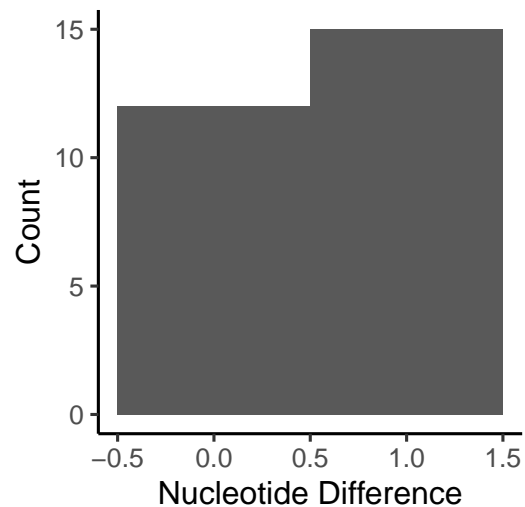
### IGKV2–24\*01

77 sequences assigned  
69 (89.6%) exact matches, in which:  
61 unique CDR3  
5 unique J



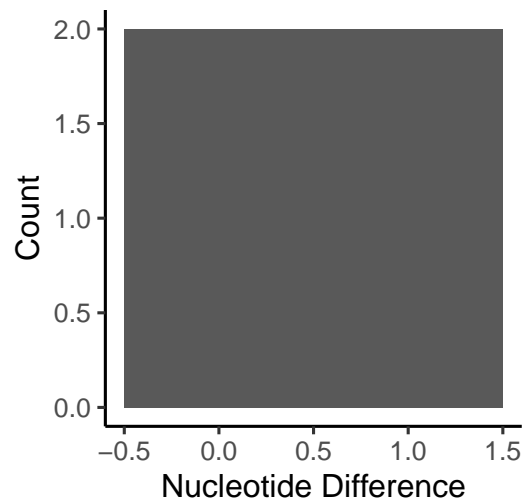
### IGKV3–7\*04

27 sequences assigned  
12 (44.4%) exact matches, in which:  
12 unique CDR3  
4 unique J



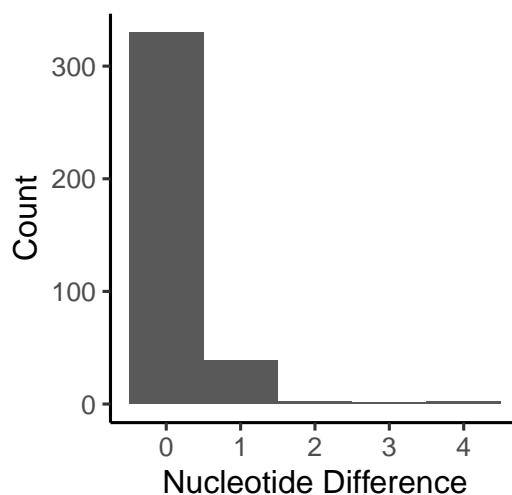
### IGKV2/OR22–4\*01

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



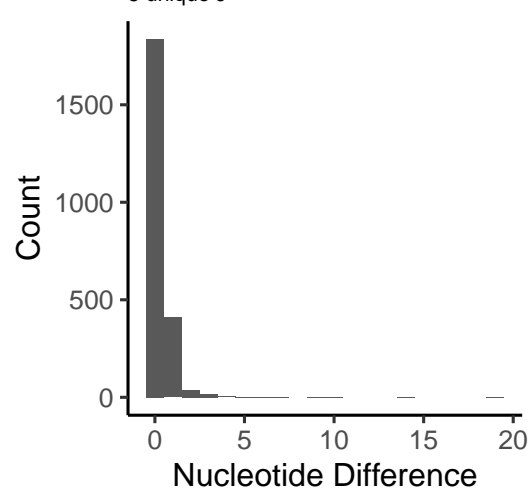
### IGKV2–30\*01

374 sequences assigned  
330 (88.2%) exact matches, in which:  
285 unique CDR3  
5 unique J



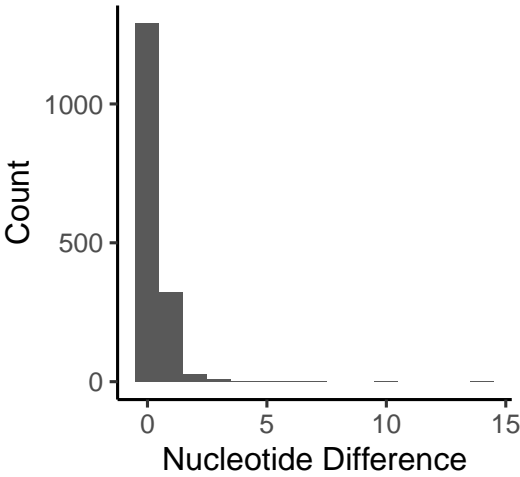
### IGKV3–11\*01

2316 sequences assigned  
1837 (79.3%) exact matches, in which:  
1359 unique CDR3  
5 unique J



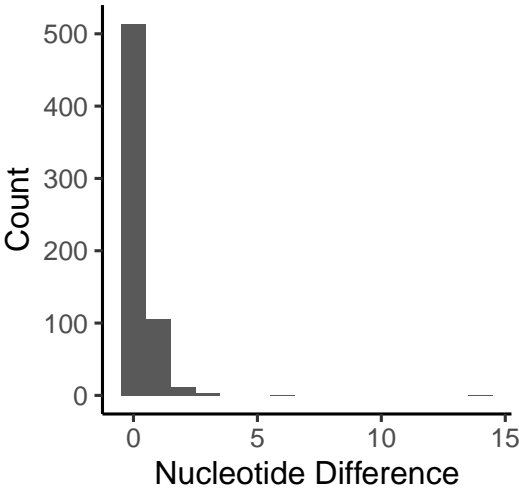
IGKV3-15\*01

1657 sequences assigned  
1290 (77.9%) exact matches, in which:  
1013 unique CDR3  
5 unique J



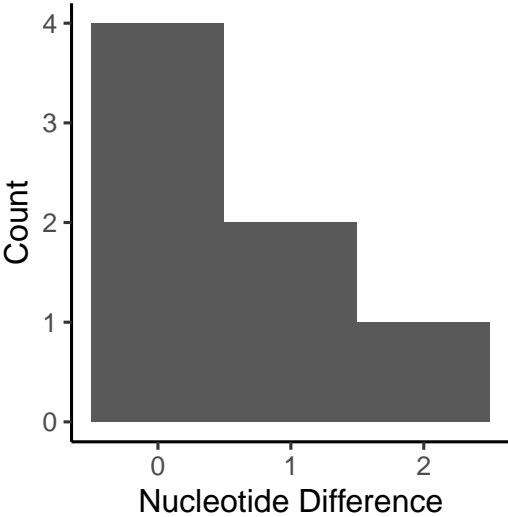
IGKV4-1\*01\_A318G

637 sequences assigned  
514 (80.7%) exact matches, in which:  
368 unique CDR3  
5 unique J



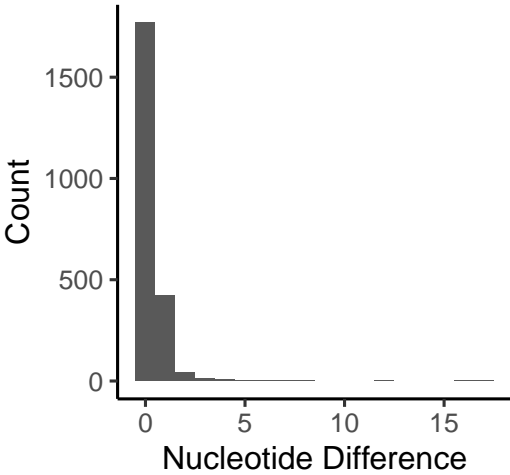
IGKV3D-7\*01

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
3 unique J



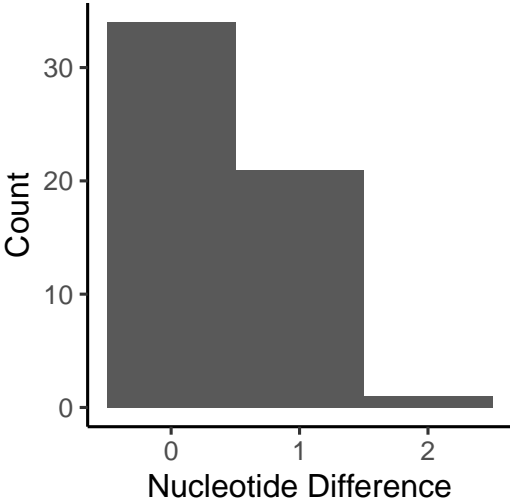
IGKV3-20\*01

2261 sequences assigned  
1769 (78.2%) exact matches, in which:  
1343 unique CDR3  
5 unique J



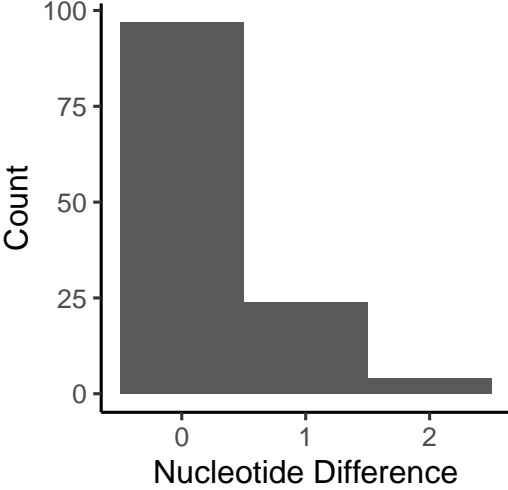
IGKV5-2\*01

56 sequences assigned  
34 (60.7%) exact matches, in which:  
31 unique CDR3  
4 unique J



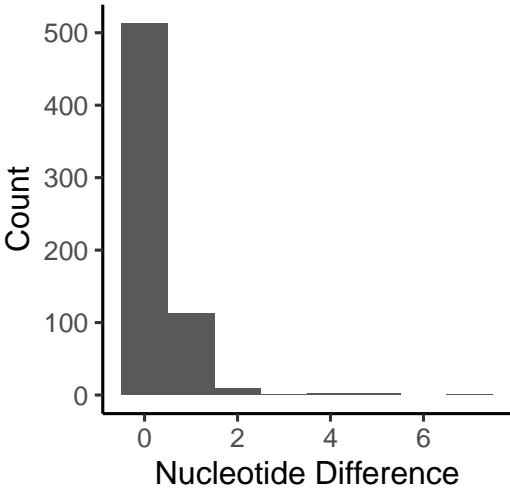
IGKV1D-8\*01

125 sequences assigned  
97 (77.6%) exact matches, in which:  
71 unique CDR3  
5 unique J



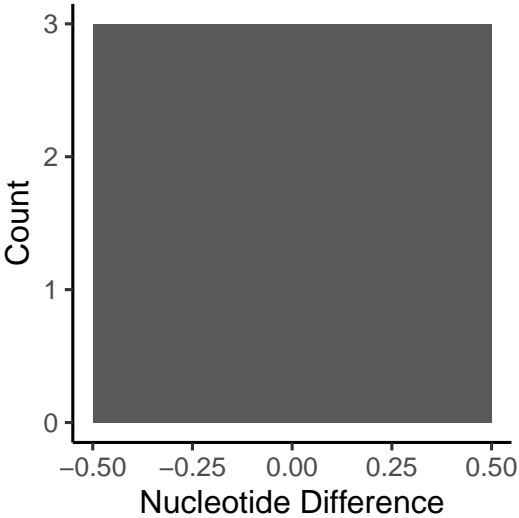
IGKV4-1\*01

641 sequences assigned  
513 (80%) exact matches, in which:  
380 unique CDR3  
5 unique J



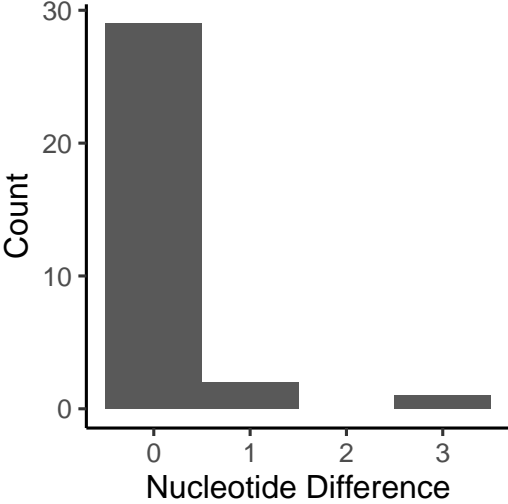
IGKV7-3\*01

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



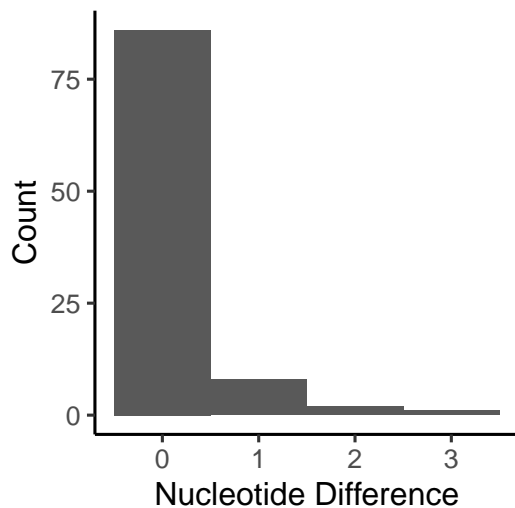
IGKV3D-11\*01

32 sequences assigned  
29 (90.6%) exact matches, in which:  
28 unique CDR3  
5 unique J



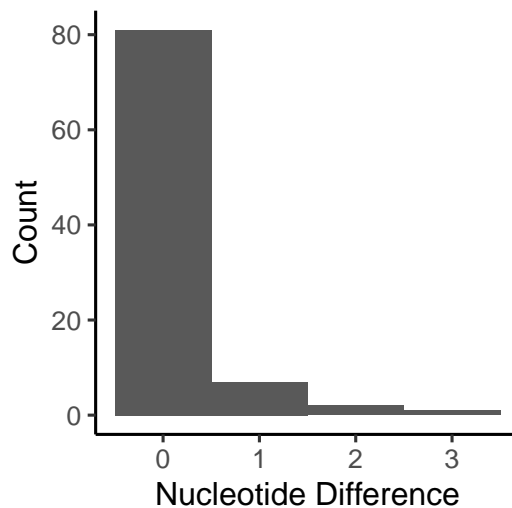
### IGKV3D-15\*01

97 sequences assigned  
86 (88.7%) exact matches, in which:  
77 unique CDR3  
5 unique J



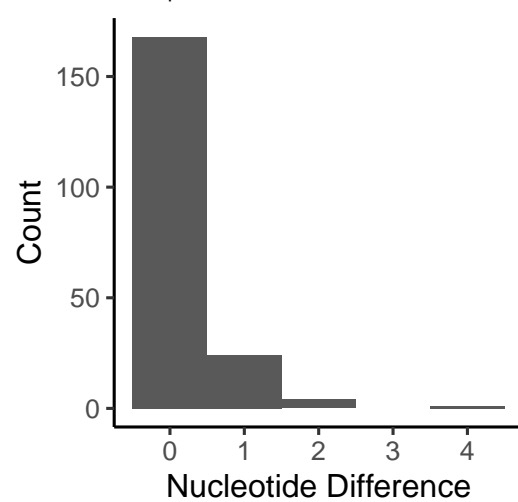
### IGKV3D-20\*01

91 sequences assigned  
81 (89%) exact matches, in which:  
73 unique CDR3  
5 unique J



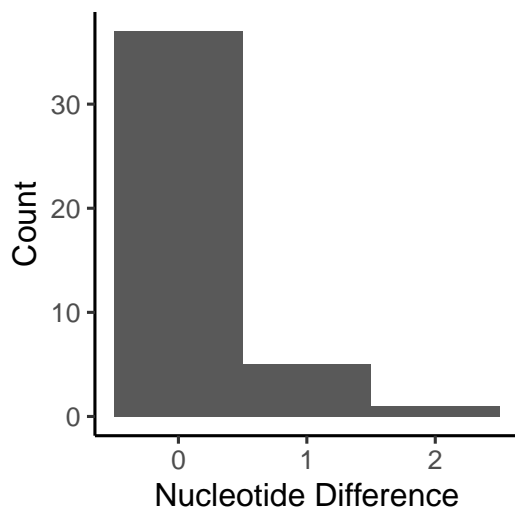
### IGKV2D-29\*01

198 sequences assigned  
168 (84.8%) exact matches, in which:  
146 unique CDR3  
5 unique J



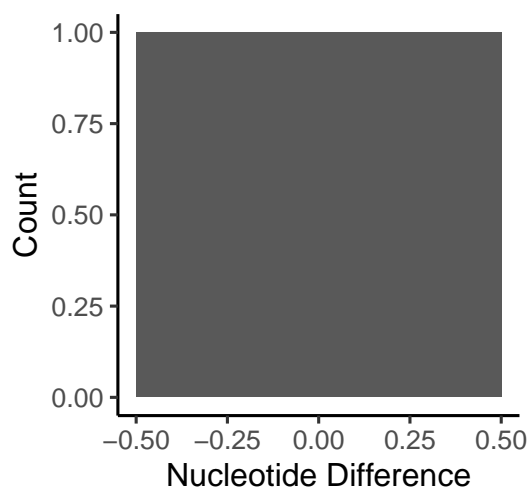
### IGKV1D-16\*01

43 sequences assigned  
37 (86%) exact matches, in which:  
32 unique CDR3  
5 unique J



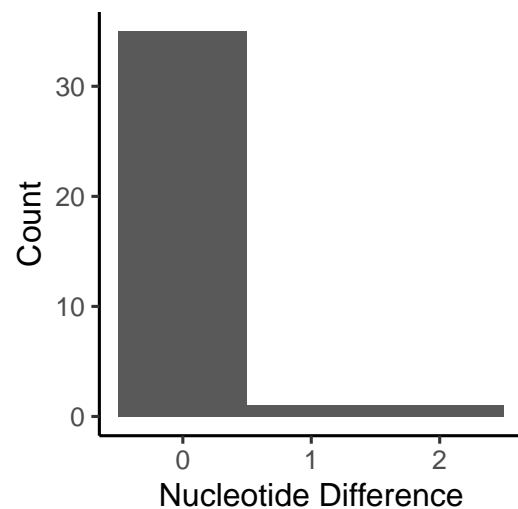
### IGKV2D-24\*01

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



### IGKV2D-30\*01

37 sequences assigned  
35 (94.6%) exact matches, in which:  
34 unique CDR3  
5 unique J



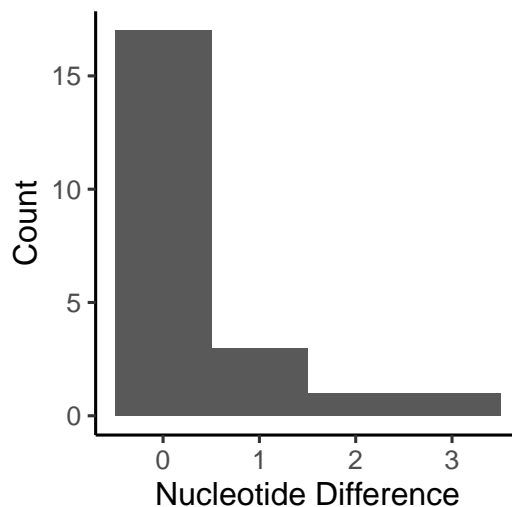
### IGKV1D-17\*01

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



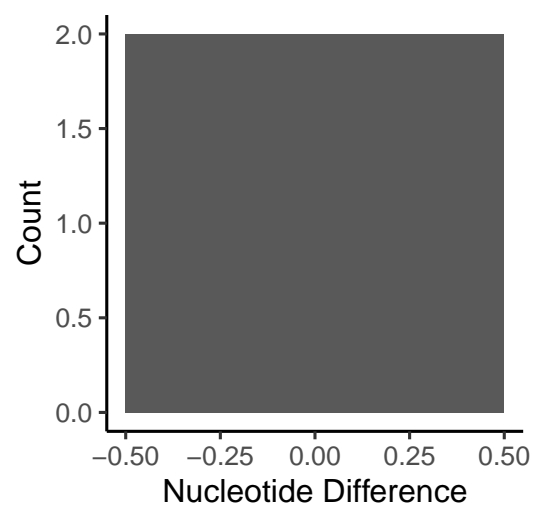
### IGKV2D-26\*03

22 sequences assigned  
17 (77.3%) exact matches, in which:  
16 unique CDR3  
5 unique J



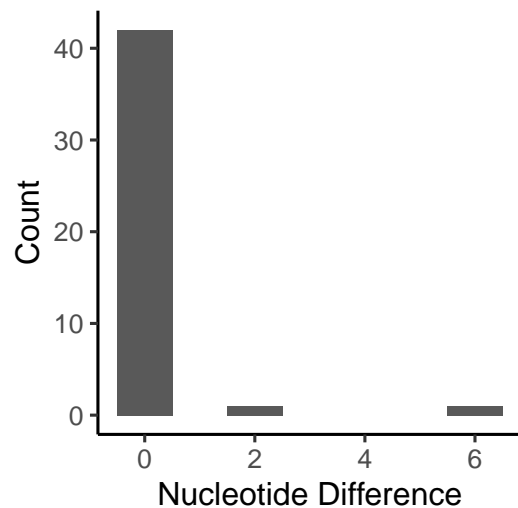
### IGKV6D-41\*01

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



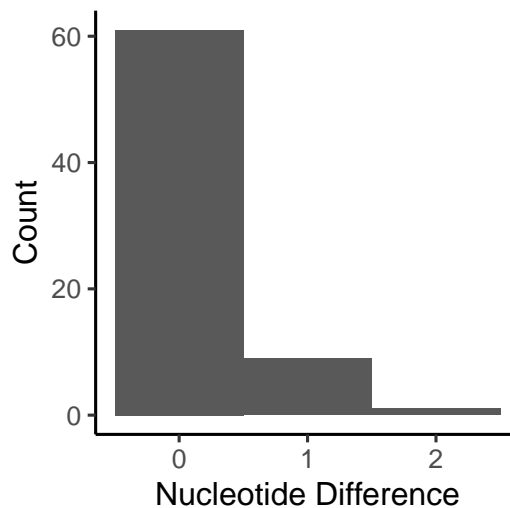
### IGKV1D-43\*01

44 sequences assigned  
42 (95.5%) exact matches, in which:  
40 unique CDR3  
5 unique J



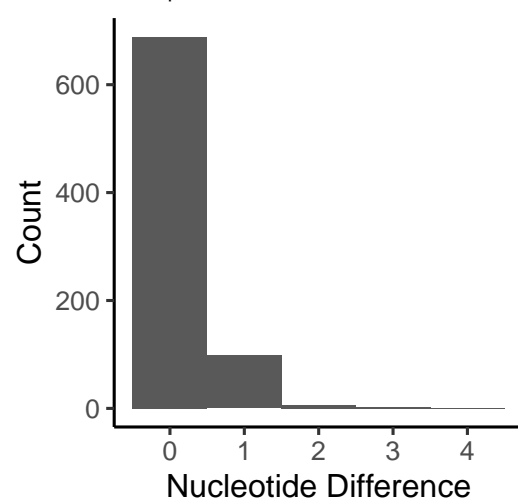
### IGKV1E-13\*03

71 sequences assigned  
61 (85.9%) exact matches, in which:  
57 unique CDR3  
5 unique J



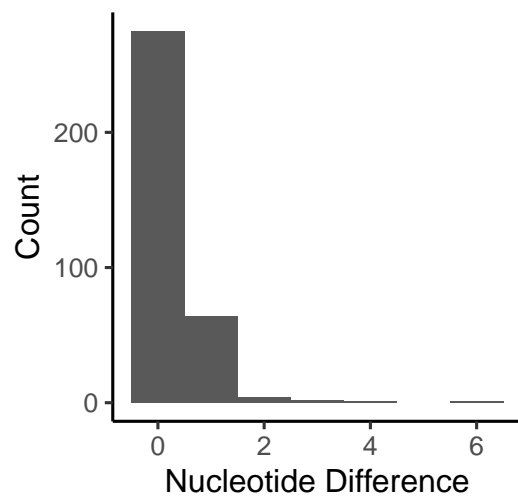
### IGKV2E-28\*01

796 sequences assigned  
689 (86.6%) exact matches, in which:  
552 unique CDR3  
5 unique J



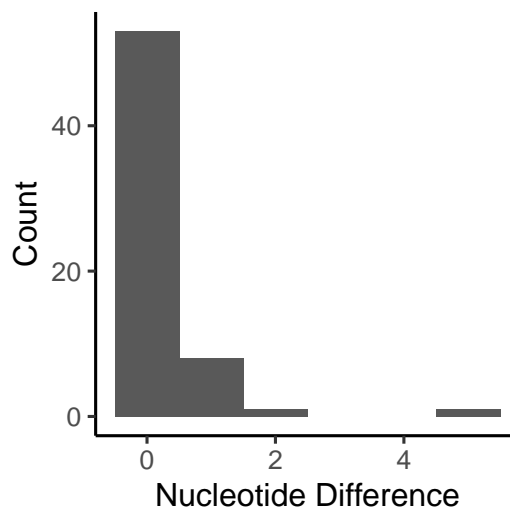
### IGKV1E-12\*01

347 sequences assigned  
275 (79.3%) exact matches, in which:  
213 unique CDR3  
5 unique J



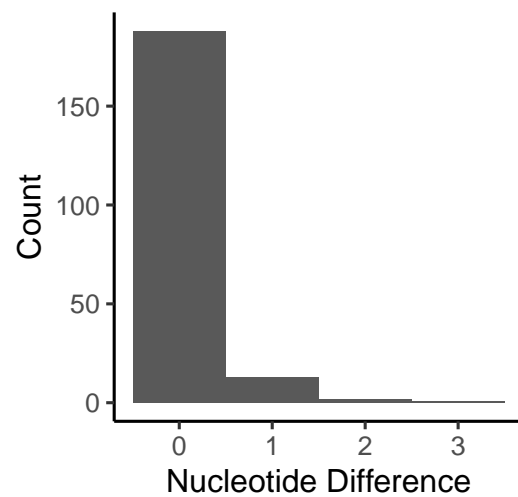
### IGKV6E-21\*01

63 sequences assigned  
53 (84.1%) exact matches, in which:  
47 unique CDR3  
5 unique J



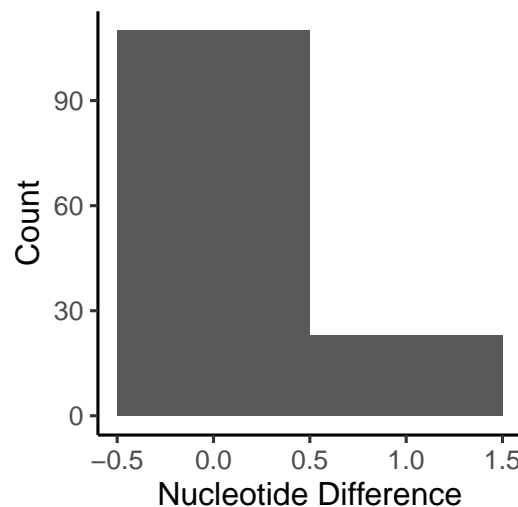
### IGKV2E-28\*01\_G202T

204 sequences assigned  
188 (92.2%) exact matches, in which:  
170 unique CDR3  
5 unique J



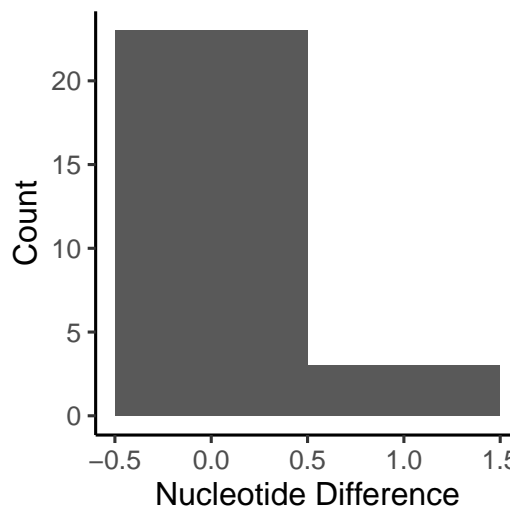
### IGKV1E-12\*03

133 sequences assigned  
110 (82.7%) exact matches, in which:  
88 unique CDR3  
5 unique J



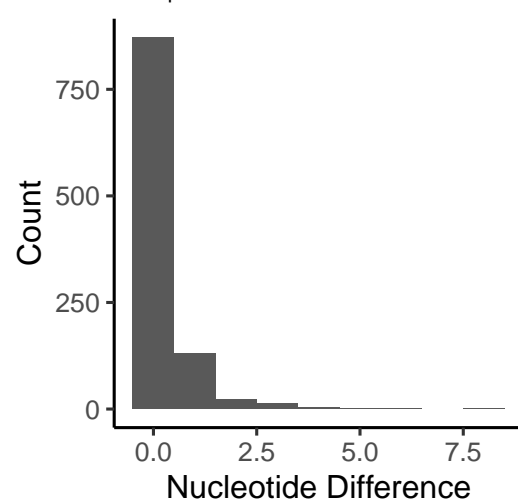
### IGKV6E-21\*03

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



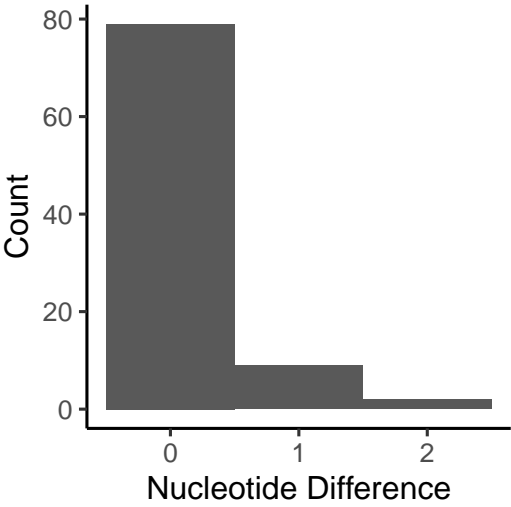
### IGKV1E-33\*01

1046 sequences assigned  
872 (83.4%) exact matches, in which:  
649 unique CDR3  
5 unique J



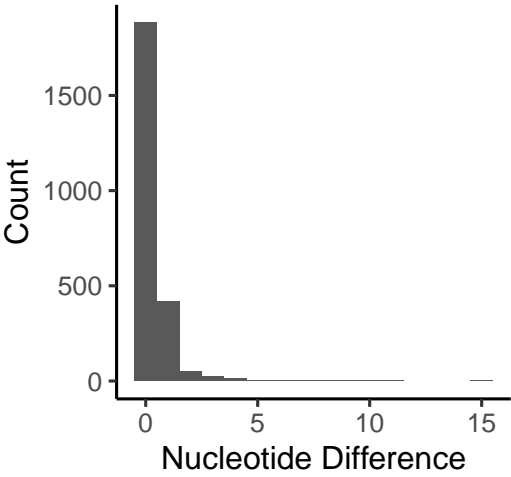
# IGKV1E-37\*01

90 sequences assigned  
79 (87.8%) exact matches, in which:  
73 unique CDR3  
5 unique J



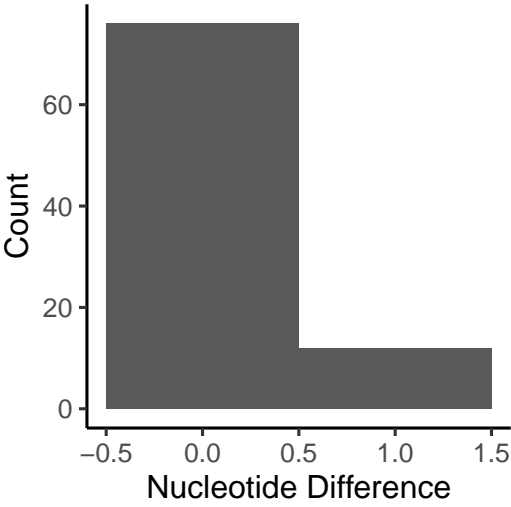
# IGKV1E-39\*01

2400 sequences assigned  
1882 (78.4%) exact matches, in which:  
1372 unique CDR3  
5 unique J



# IGKV2E-40\*01

88 sequences assigned  
76 (86.4%) exact matches, in which:  
67 unique CDR3  
5 unique J





Warning – no inferred sequences found.