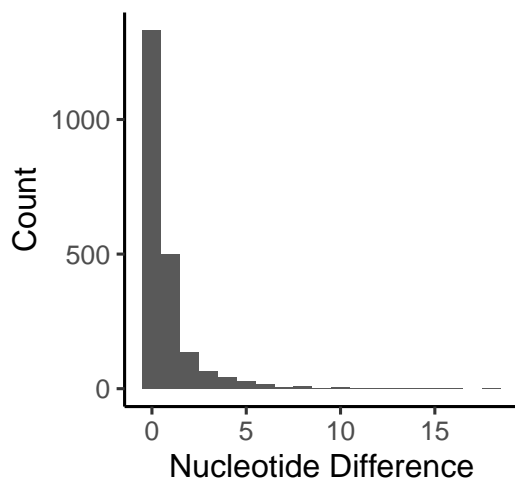


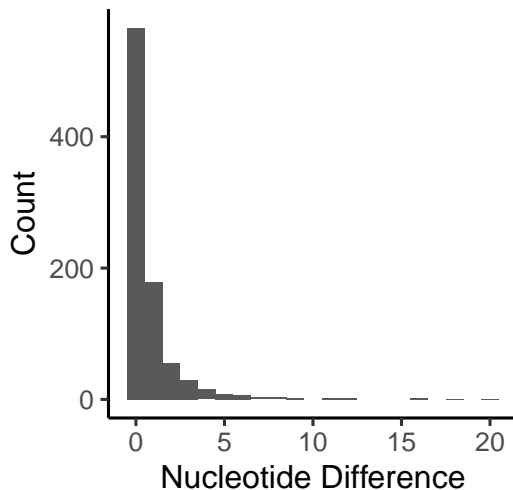
### IGKV1–5\*03

2153 sequences assigned  
1331 (61.8%) exact matches, in which:  
1063 unique CDR3  
5 unique J



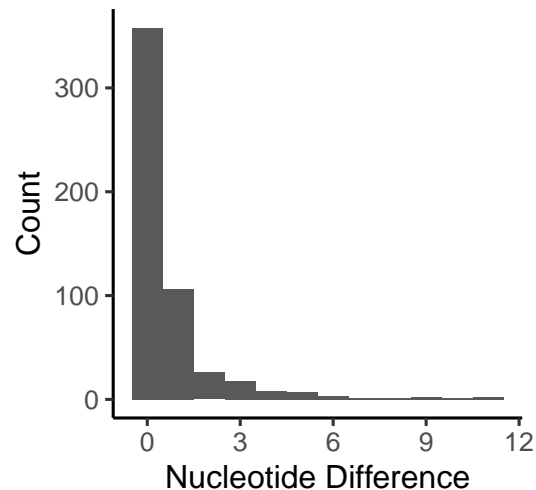
### IGKV1–9\*01

876 sequences assigned  
566 (64.6%) exact matches, in which:  
458 unique CDR3  
5 unique J



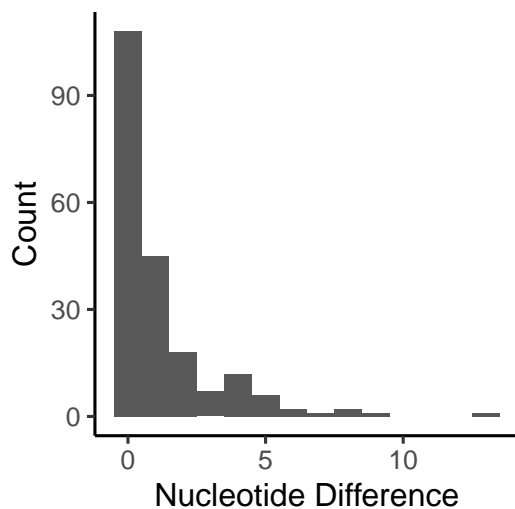
### IGKV1–27\*01

533 sequences assigned  
358 (67.2%) exact matches, in which:  
290 unique CDR3  
5 unique J



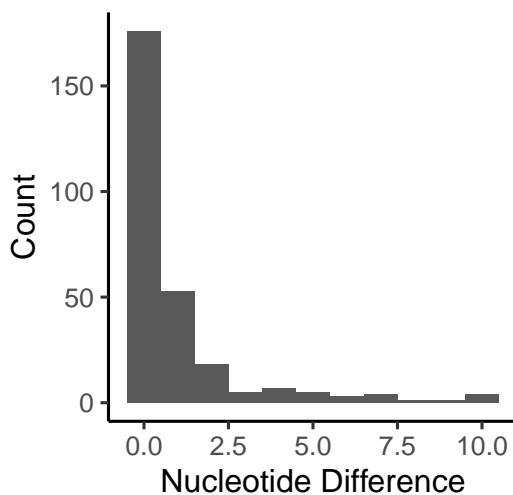
### IGKV1–6\*01

203 sequences assigned  
108 (53.2%) exact matches, in which:  
85 unique CDR3  
5 unique J



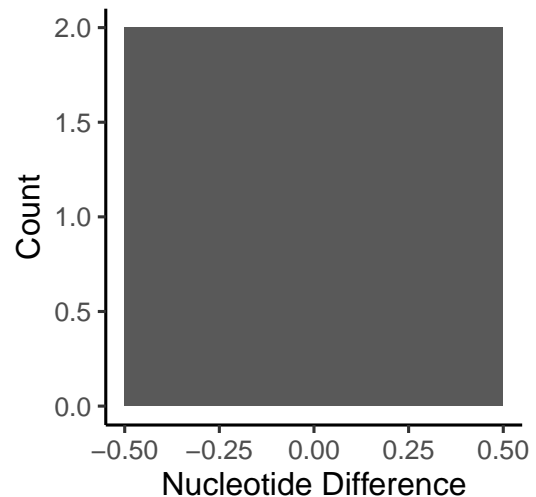
### IGKV1–16\*02

277 sequences assigned  
176 (63.5%) exact matches, in which:  
128 unique CDR3  
5 unique J



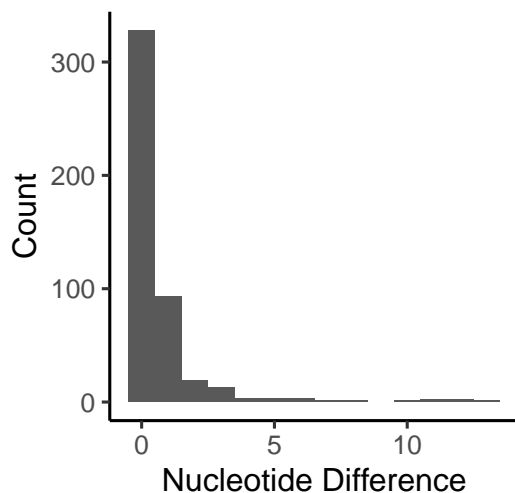
### IGKV1/OR2–1\*01

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



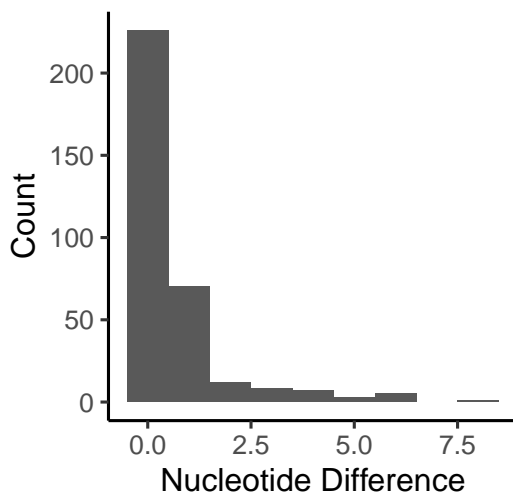
### IGKV1–8\*01

470 sequences assigned  
328 (69.8%) exact matches, in which:  
264 unique CDR3  
5 unique J



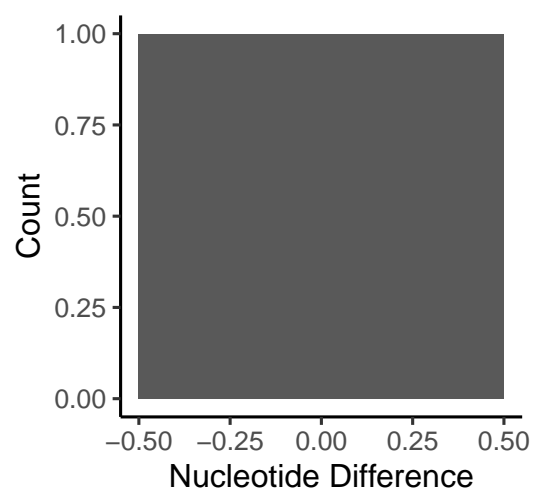
### IGKV1–17\*01

332 sequences assigned  
226 (68.1%) exact matches, in which:  
172 unique CDR3  
5 unique J



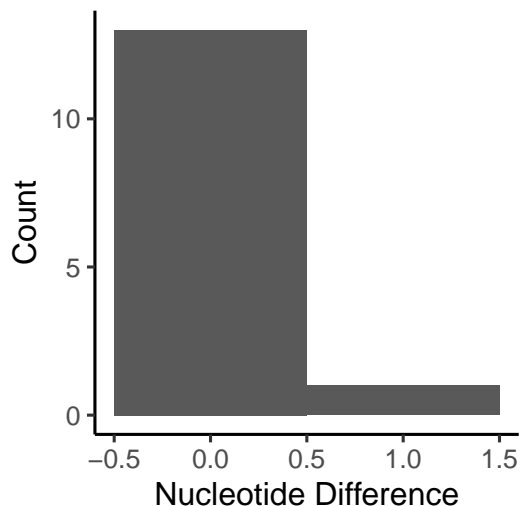
### IGKV2/OR22–4\*01

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



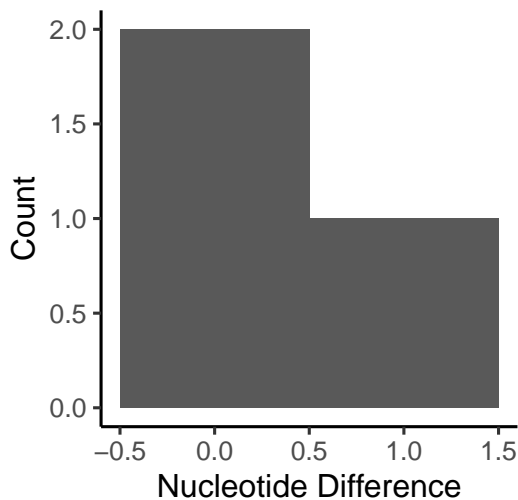
### IGKV2-18\*01

14 sequences assigned  
13 (92.9%) exact matches, in which:  
13 unique CDR3  
5 unique J



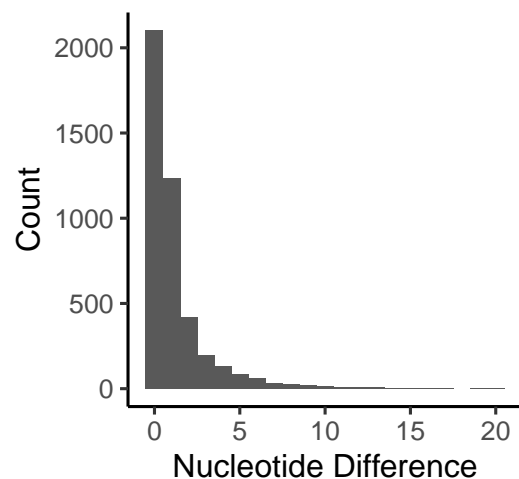
### IGKV1/OR2-108\*01

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



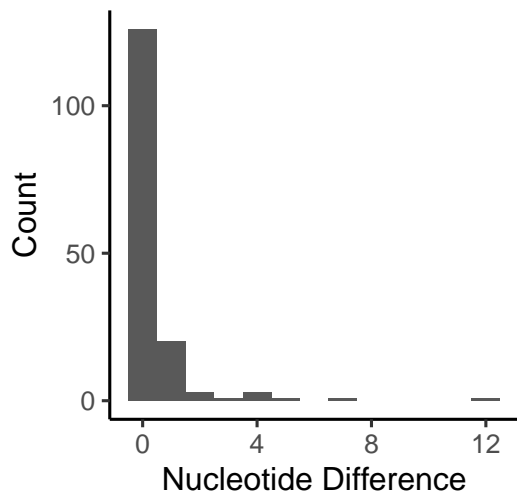
### IGKV3-11\*01

4356 sequences assigned  
2102 (48.3%) exact matches, in which:  
1613 unique CDR3  
5 unique J



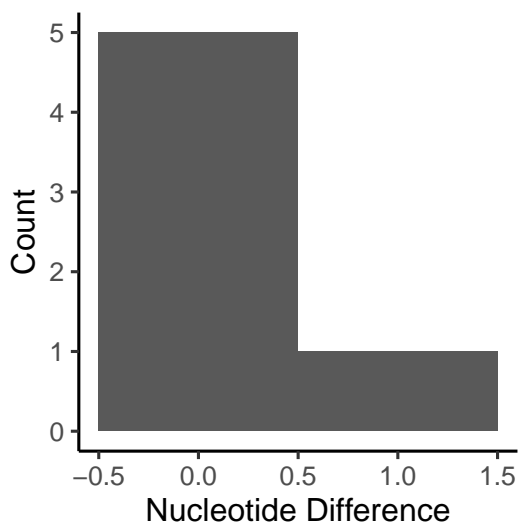
### IGKV2-24\*01

156 sequences assigned  
126 (80.8%) exact matches, in which:  
102 unique CDR3  
5 unique J



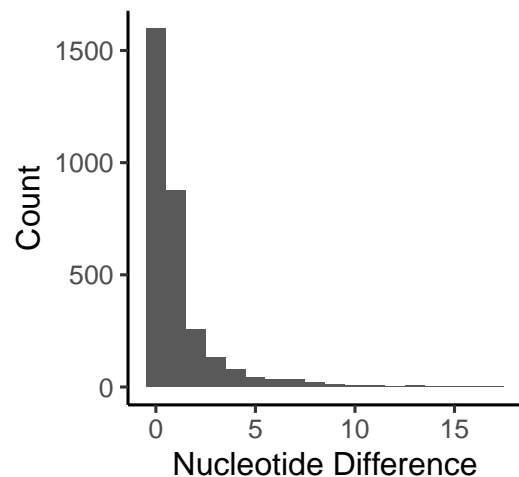
### IGKV3/OR2-268\*01

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



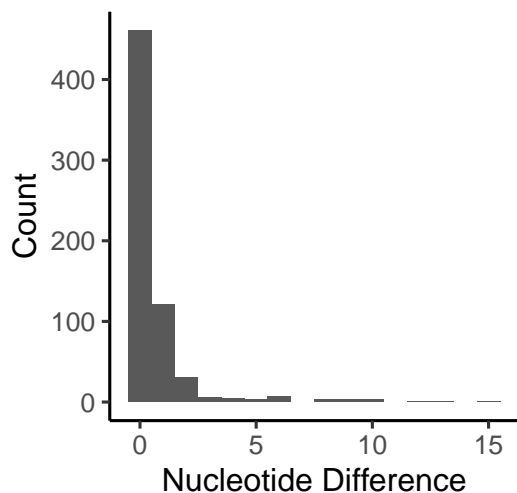
### IGKV3-15\*01

3113 sequences assigned  
1597 (51.3%) exact matches, in which:  
1226 unique CDR3  
5 unique J



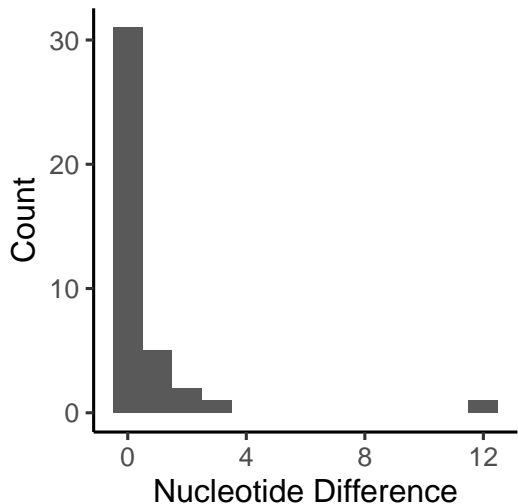
### IGKV2-30\*01

644 sequences assigned  
461 (71.6%) exact matches, in which:  
391 unique CDR3  
5 unique J



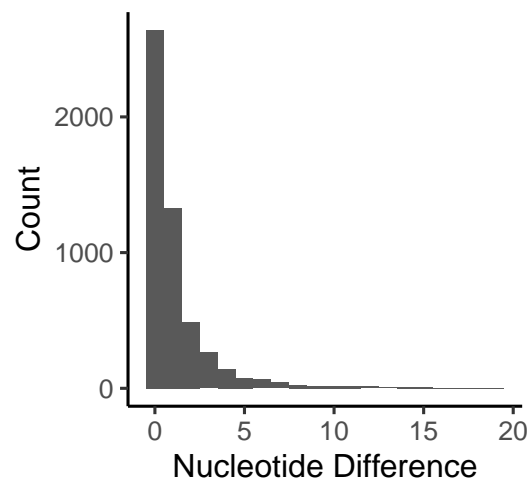
### IGKV3-7\*04

40 sequences assigned  
31 (77.5%) exact matches, in which:  
31 unique CDR3  
5 unique J



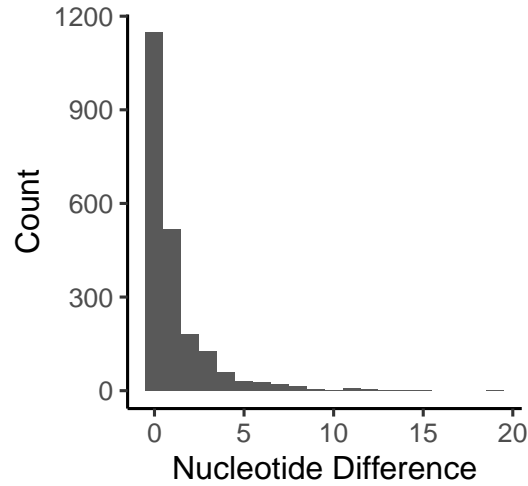
### IGKV3-20\*01

5171 sequences assigned  
2640 (51.1%) exact matches, in which:  
1916 unique CDR3  
5 unique J



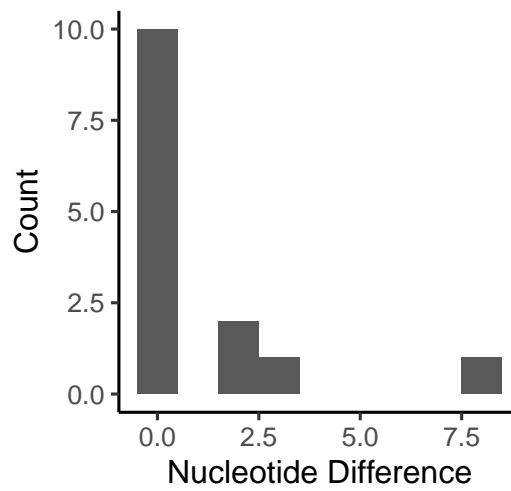
### IGKV4-1\*01

2157 sequences assigned  
1148 (53.2%) exact matches, in which:  
779 unique CDR3  
5 unique J



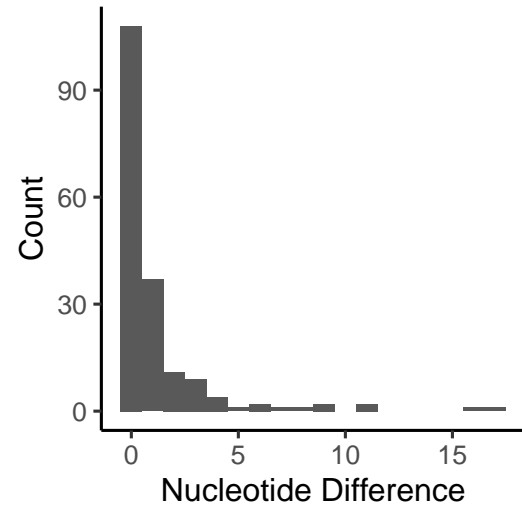
### IGKV3D-7\*01

14 sequences assigned  
10 (71.4%) exact matches, in which:  
9 unique CDR3  
4 unique J



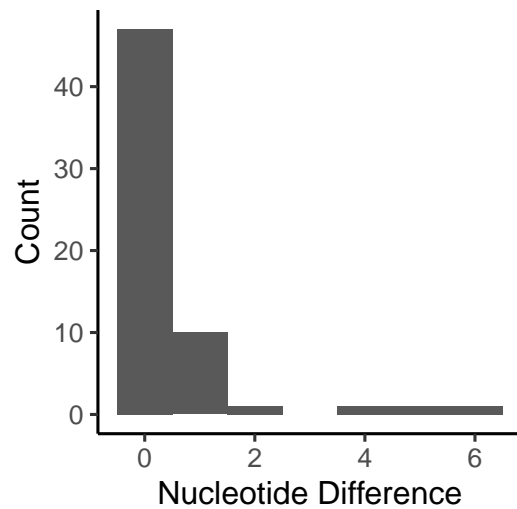
### IGKV3D-15\*01

180 sequences assigned  
108 (60%) exact matches, in which:  
98 unique CDR3  
5 unique J



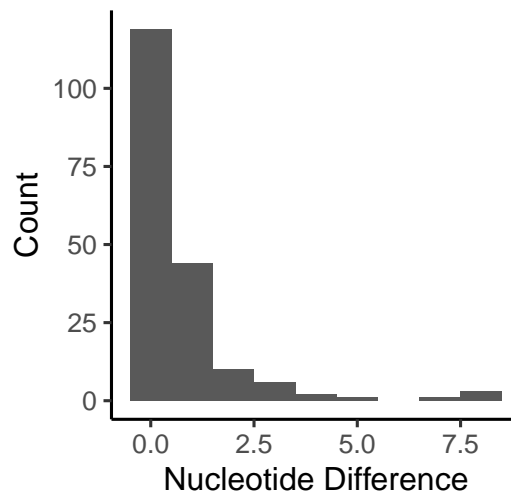
### IGKV5-2\*01

61 sequences assigned  
47 (77%) exact matches, in which:  
45 unique CDR3  
5 unique J



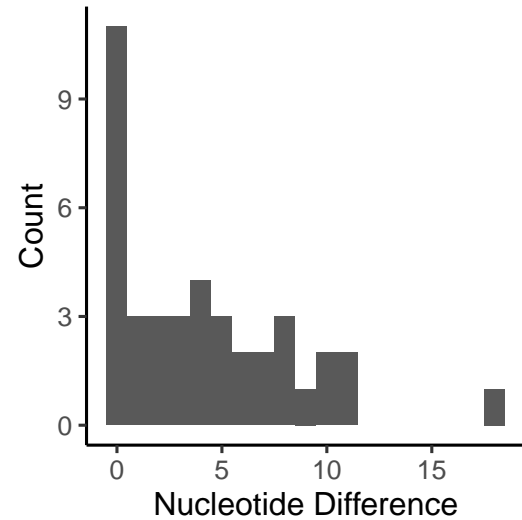
### IGKV1D-8\*01

186 sequences assigned  
119 (64%) exact matches, in which:  
89 unique CDR3  
5 unique J



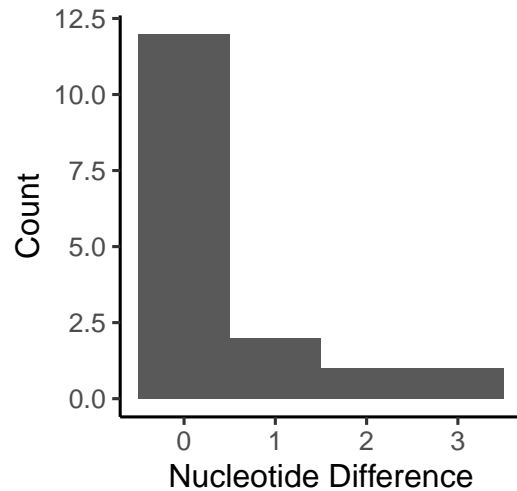
### IGKV3D-15\*01\_C210G

40 sequences assigned  
11 (27.5%) exact matches, in which:  
11 unique CDR3  
5 unique J



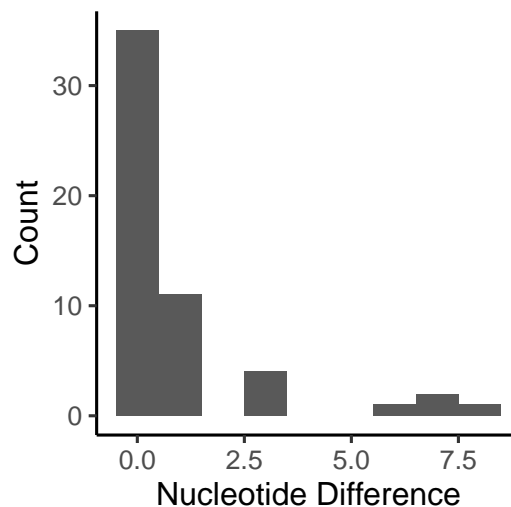
### IGKV7-3\*01

16 sequences assigned  
12 (75%) exact matches, in which:  
11 unique CDR3  
4 unique J



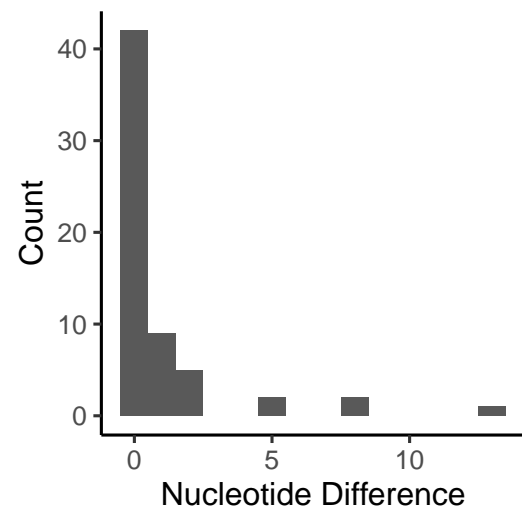
### IGKV3D-11\*01

54 sequences assigned  
35 (64.8%) exact matches, in which:  
32 unique CDR3  
5 unique J



### IGKV1D-16\*01

61 sequences assigned  
42 (68.9%) exact matches, in which:  
33 unique CDR3  
5 unique J



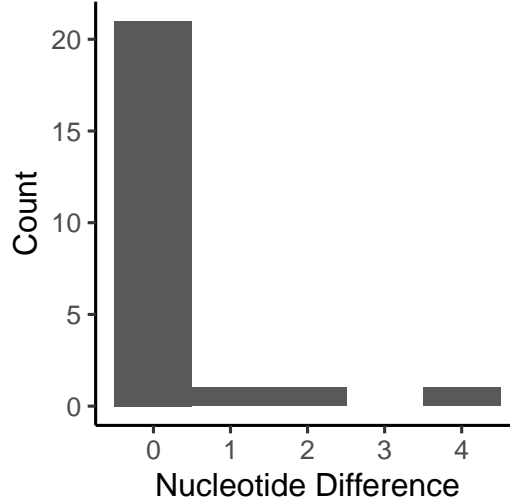
### IGKV2D-18\*01

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



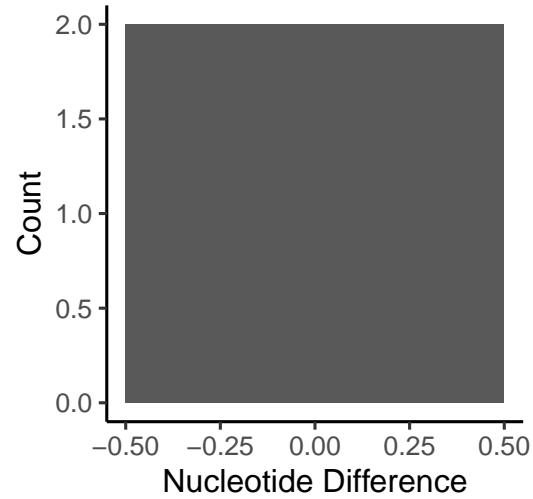
### IGKV2D-26\*03

24 sequences assigned  
21 (87.5%) exact matches, in which:  
20 unique CDR3  
5 unique J



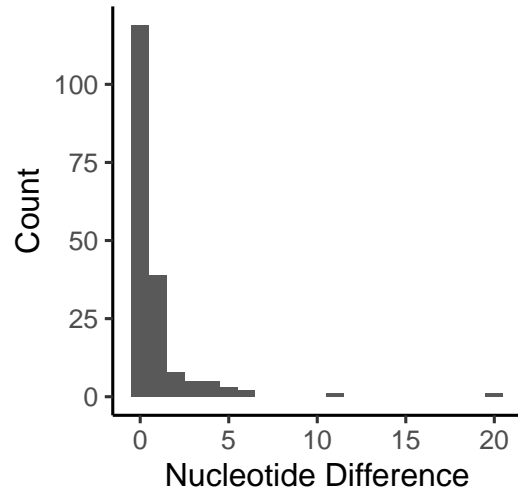
### IGKV6D-41\*01

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



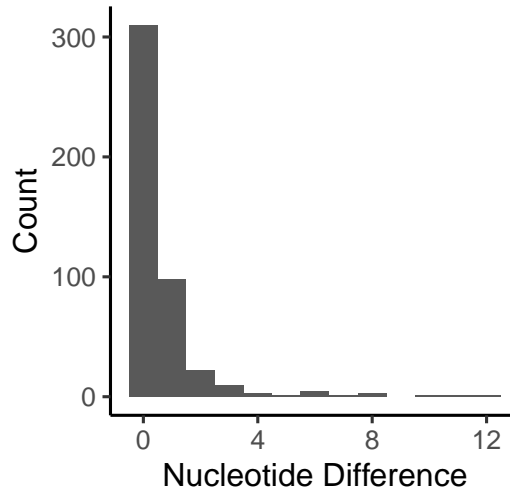
### IGKV3D-20\*01

183 sequences assigned  
119 (65%) exact matches, in which:  
103 unique CDR3  
5 unique J



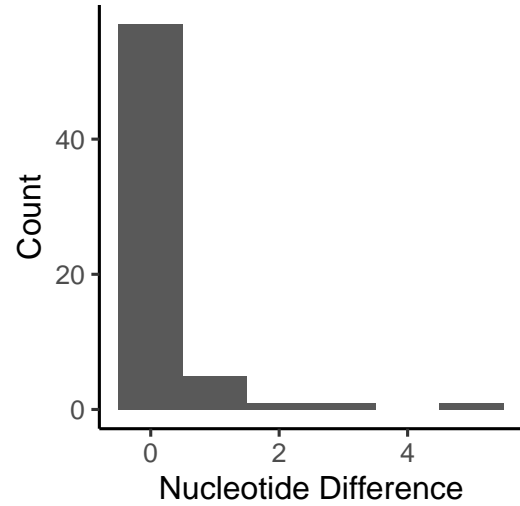
### IGKV2D-29\*01

458 sequences assigned  
310 (67.7%) exact matches, in which:  
260 unique CDR3  
5 unique J



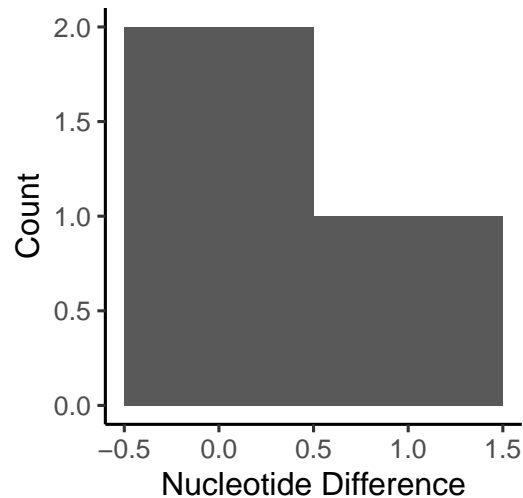
### IGKV1D-43\*01

65 sequences assigned  
57 (87.7%) exact matches, in which:  
54 unique CDR3  
5 unique J



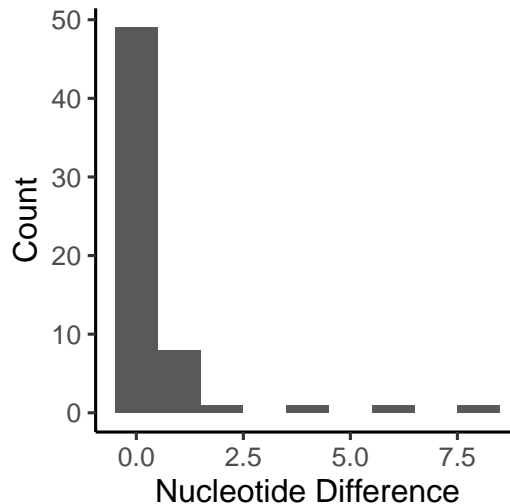
### IGKV2D-24\*01

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



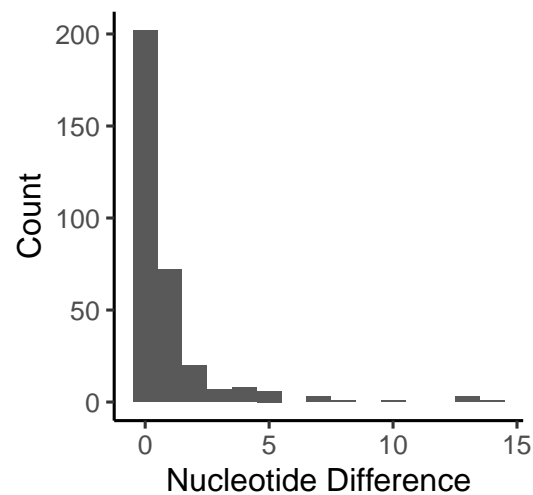
### IGKV2D-30\*01

61 sequences assigned  
49 (80.3%) exact matches, in which:  
43 unique CDR3  
5 unique J



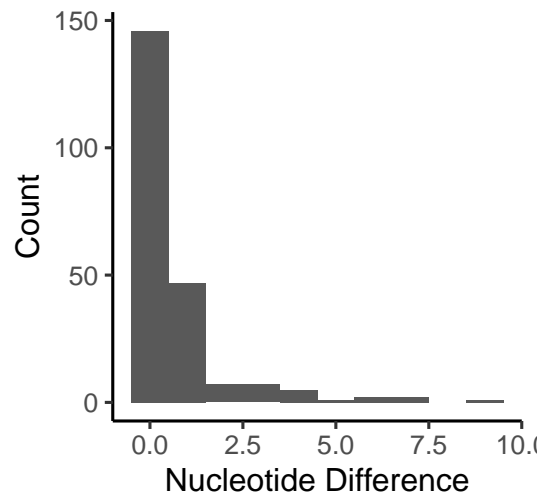
### IGKV1E-12\*01

324 sequences assigned  
202 (62.3%) exact matches, in which:  
159 unique CDR3  
5 unique J



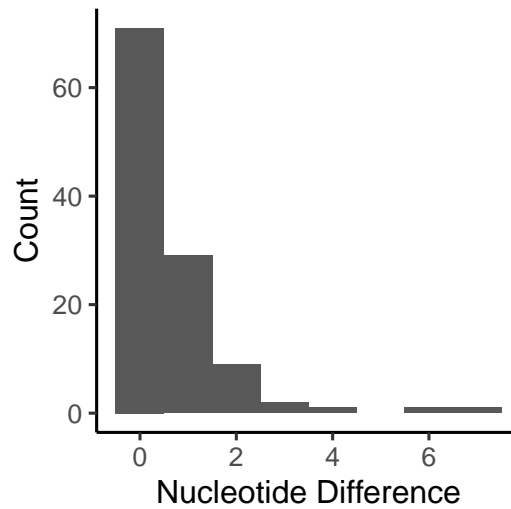
### IGKV1E-12\*03

218 sequences assigned  
146 (67%) exact matches, in which:  
117 unique CDR3  
5 unique J



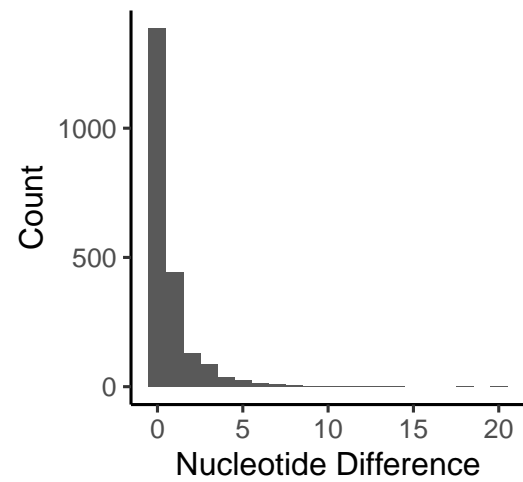
### IGKV6E-21\*01

114 sequences assigned  
71 (62.3%) exact matches, in which:  
55 unique CDR3  
5 unique J



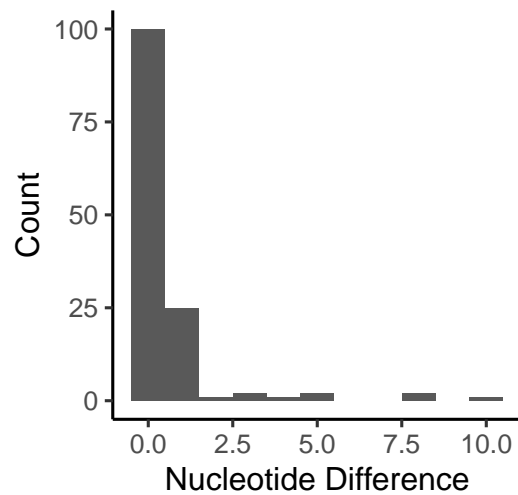
### IGKV1E-33\*01

2151 sequences assigned  
1386 (64.4%) exact matches, in which:  
1031 unique CDR3  
5 unique J



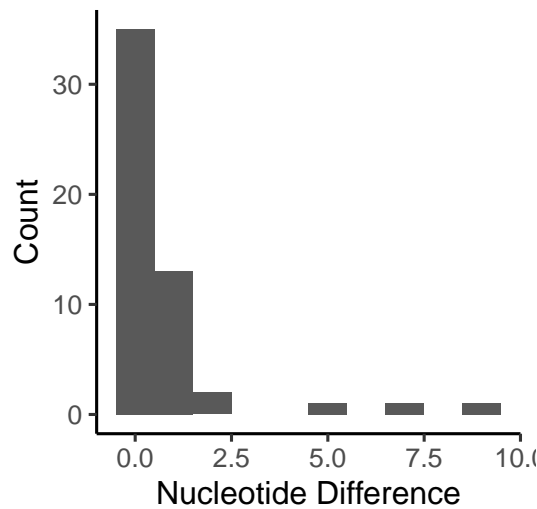
### IGKV1E-12\*01\_C74T

134 sequences assigned  
100 (74.6%) exact matches, in which:  
78 unique CDR3  
5 unique J



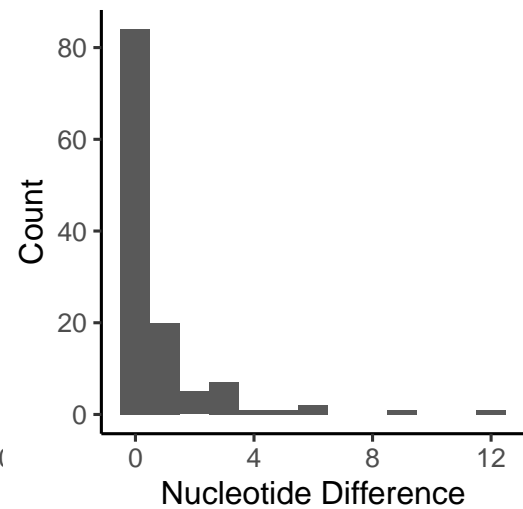
### IGKV6E-21\*03

53 sequences assigned  
35 (66%) exact matches, in which:  
30 unique CDR3  
4 unique J



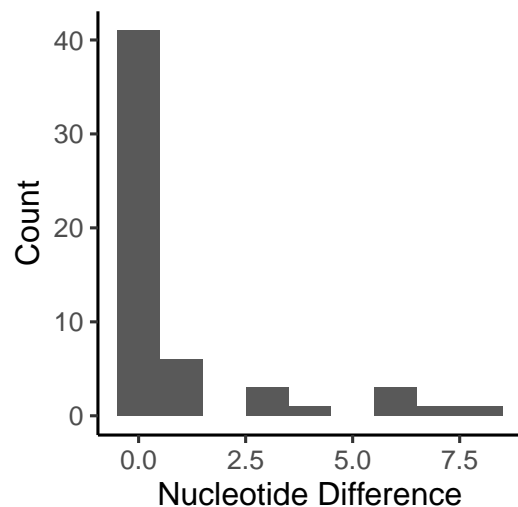
### IGKV1E-37\*01

122 sequences assigned  
84 (68.9%) exact matches, in which:  
77 unique CDR3  
5 unique J



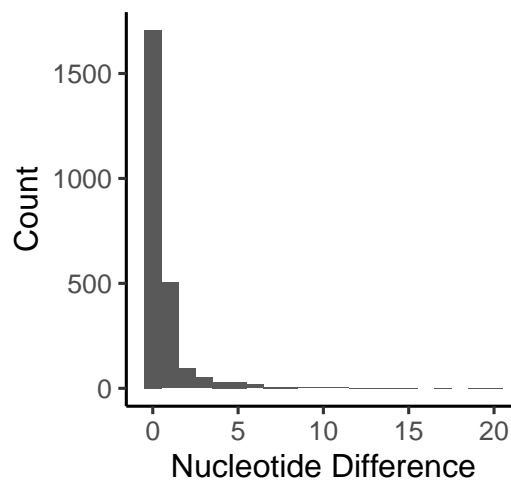
### IGKV1E-13\*03

56 sequences assigned  
41 (73.2%) exact matches, in which:  
38 unique CDR3  
4 unique J



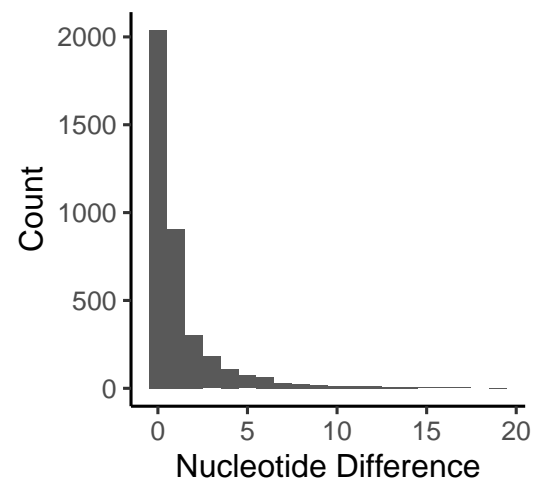
### IGKV2E-28\*01

2467 sequences assigned  
1707 (69.2%) exact matches, in which:  
1162 unique CDR3  
5 unique J



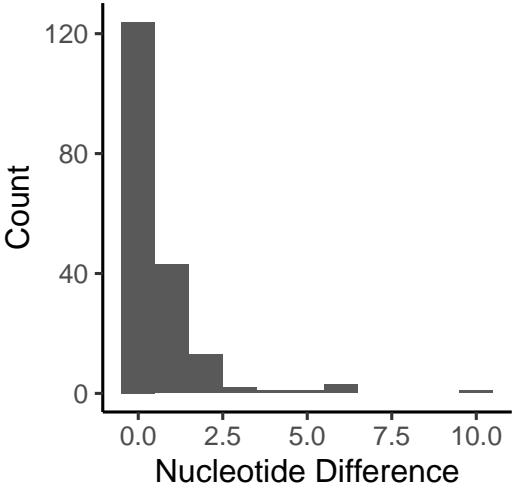
### IGKV1E-39\*01

3824 sequences assigned  
2039 (53.3%) exact matches, in which:  
1540 unique CDR3  
5 unique J



IGKV2E-40\*01

188 sequences assigned  
124 (66%) exact matches, in which:  
104 unique CDR3  
5 unique J





Warning – no inferred sequences found.