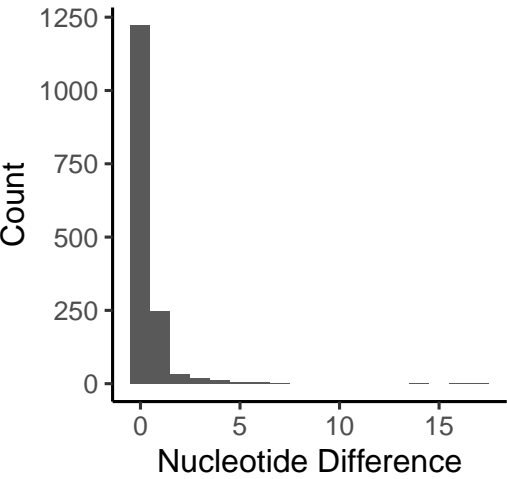


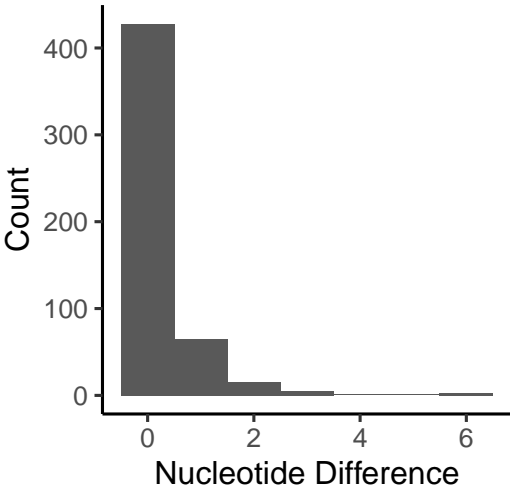
IGKV1-5\*03

1549 sequences assigned  
1222 (78.9%) exact matches, in which:  
865 unique CDR3  
5 unique J



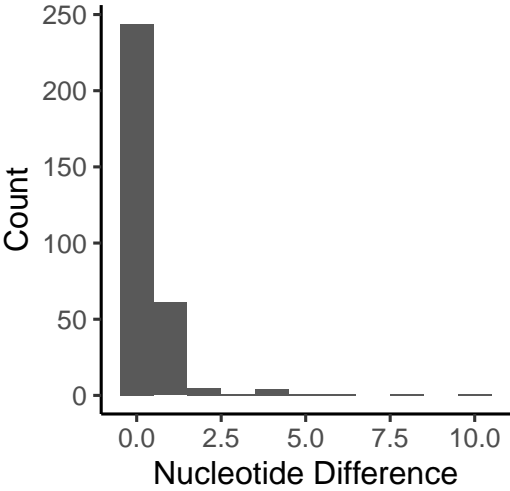
IGKV1-9\*01

518 sequences assigned  
428 (82.6%) exact matches, in which:  
339 unique CDR3  
5 unique J



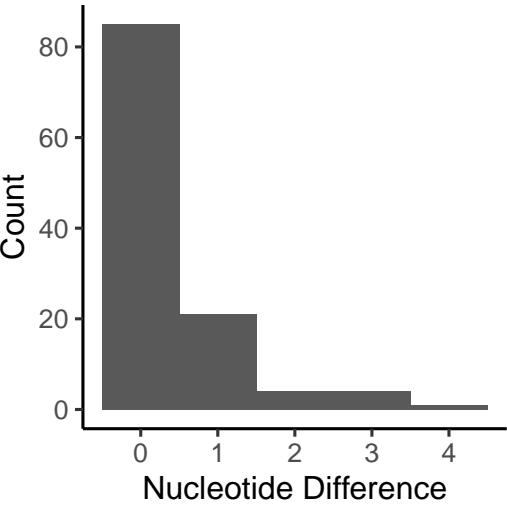
IGKV1-27\*01

319 sequences assigned  
244 (76.5%) exact matches, in which:  
193 unique CDR3  
5 unique J



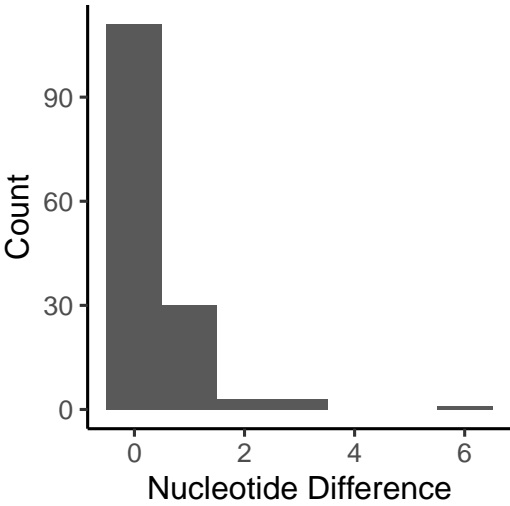
IGKV1-6\*01

115 sequences assigned  
85 (73.9%) exact matches, in which:  
57 unique CDR3  
5 unique J



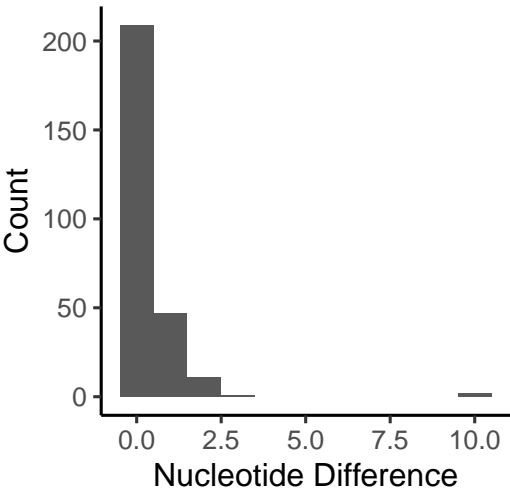
IGKV1-16\*02

148 sequences assigned  
111 (75%) exact matches, in which:  
86 unique CDR3  
5 unique J



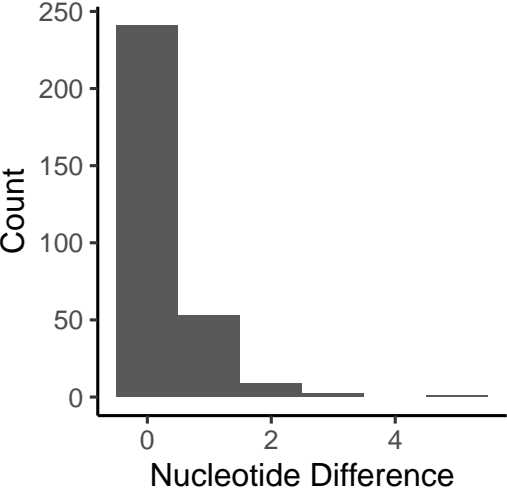
IGKV1-NL1\*01

270 sequences assigned  
209 (77.4%) exact matches, in which:  
176 unique CDR3  
5 unique J



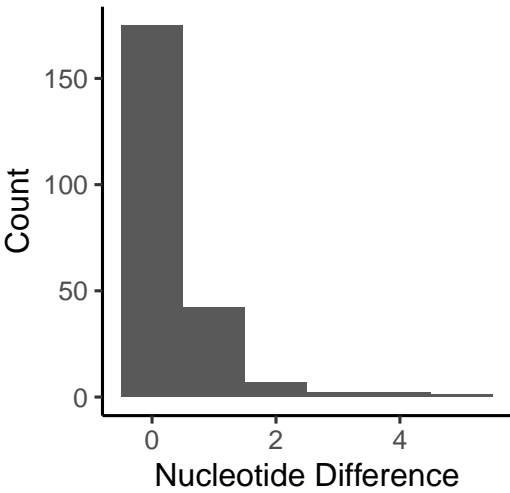
IGKV1-8\*01

306 sequences assigned  
241 (78.8%) exact matches, in which:  
165 unique CDR3  
5 unique J



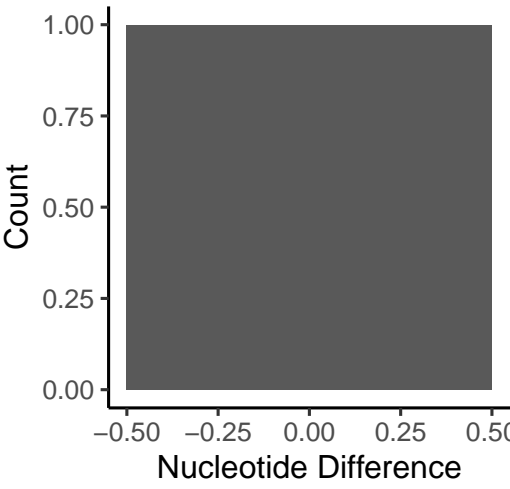
IGKV1-17\*01

229 sequences assigned  
175 (76.4%) exact matches, in which:  
128 unique CDR3  
5 unique J



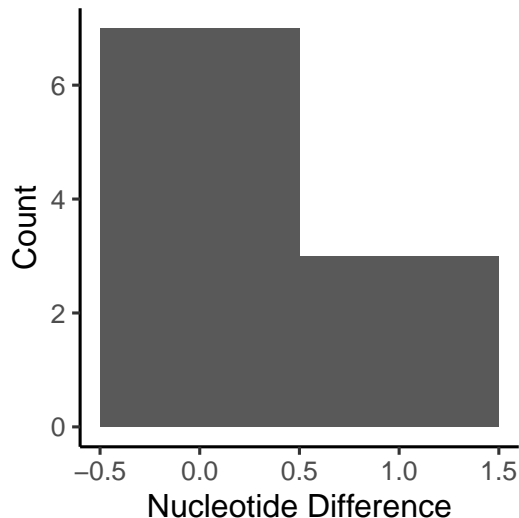
IGKV1/OR2-1\*01

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



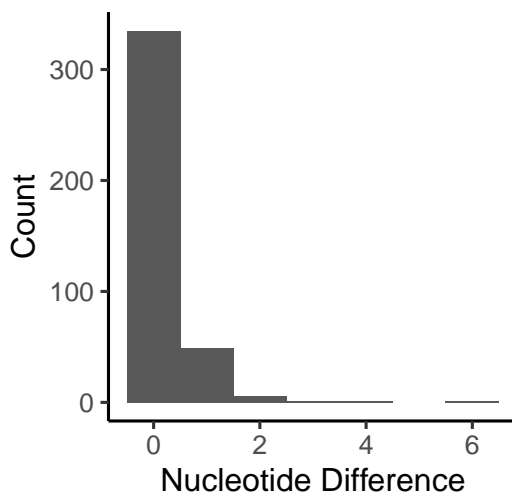
### IGKV2/OR22-4\*01

10 sequences assigned  
7 (70%) exact matches, in which:  
6 unique CDR3  
4 unique J



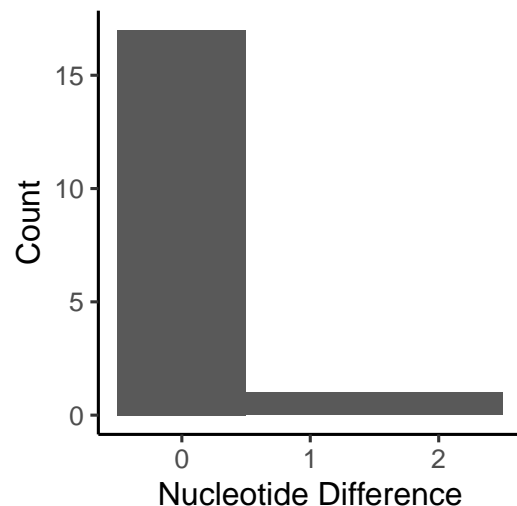
### IGKV2-30\*01

393 sequences assigned  
335 (85.2%) exact matches, in which:  
271 unique CDR3  
5 unique J



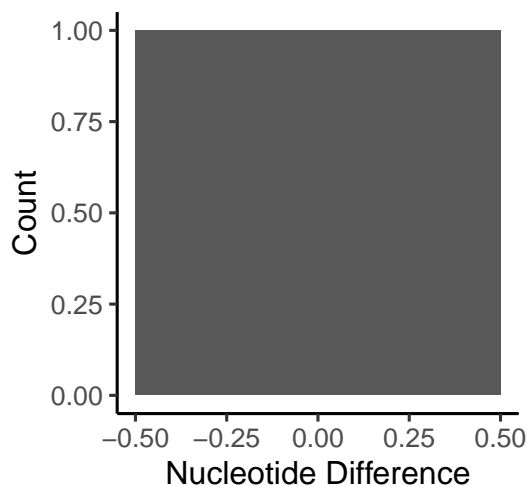
### IGKV3-7\*04

19 sequences assigned  
17 (89.5%) exact matches, in which:  
17 unique CDR3  
5 unique J



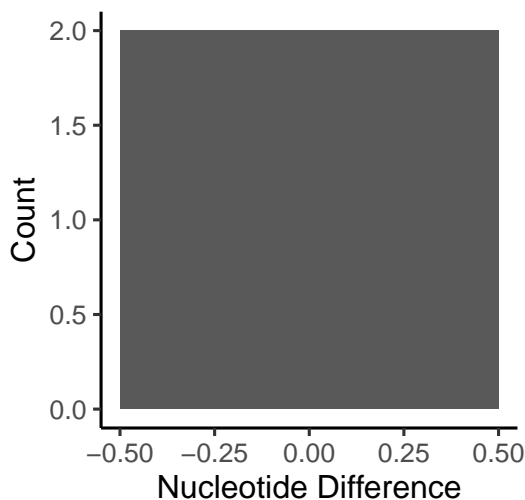
### IGKV2-18\*01

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



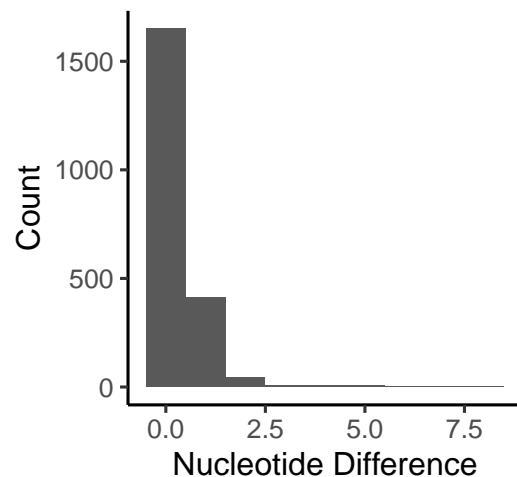
### IGKV1/OR2-108\*01

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



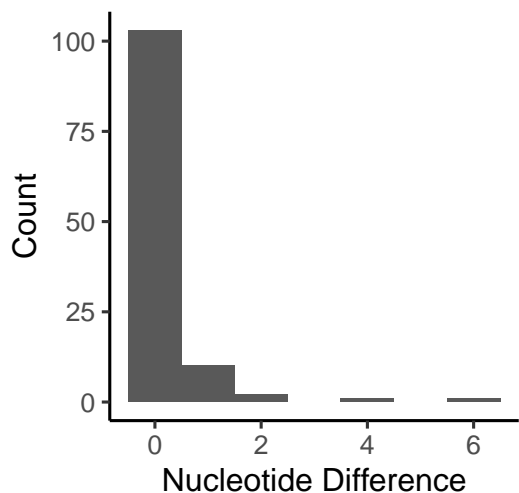
### IGKV3-11\*01

2134 sequences assigned  
1650 (77.3%) exact matches, in which:  
1138 unique CDR3  
5 unique J



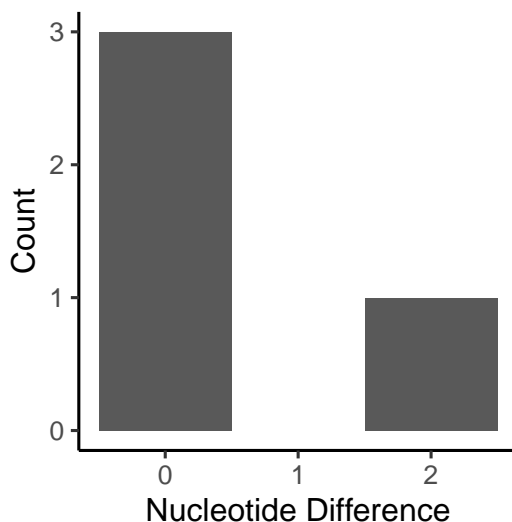
### IGKV2-24\*01

117 sequences assigned  
103 (88%) exact matches, in which:  
82 unique CDR3  
5 unique J



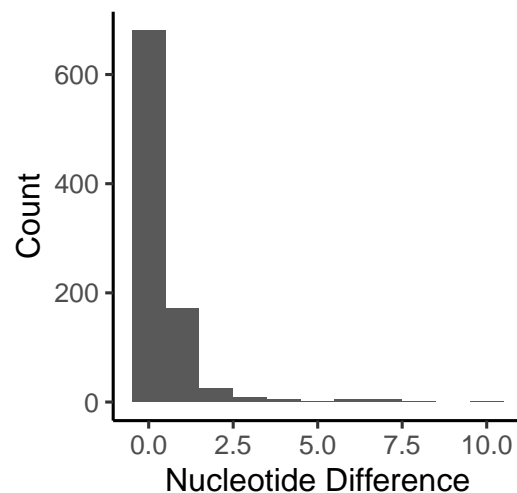
### IGKV3/OR2-268\*01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
2 unique J



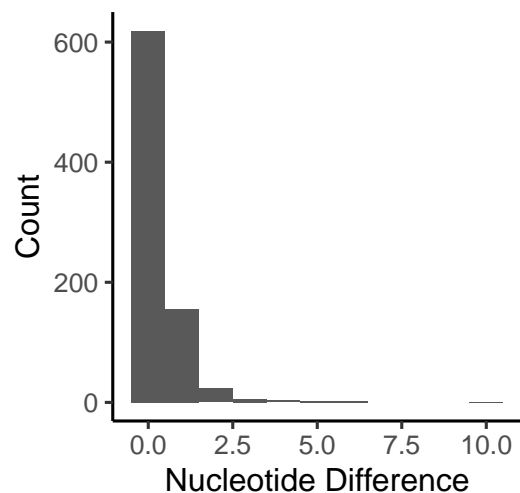
### IGKV3-15\*01

901 sequences assigned  
681 (75.6%) exact matches, in which:  
508 unique CDR3  
5 unique J



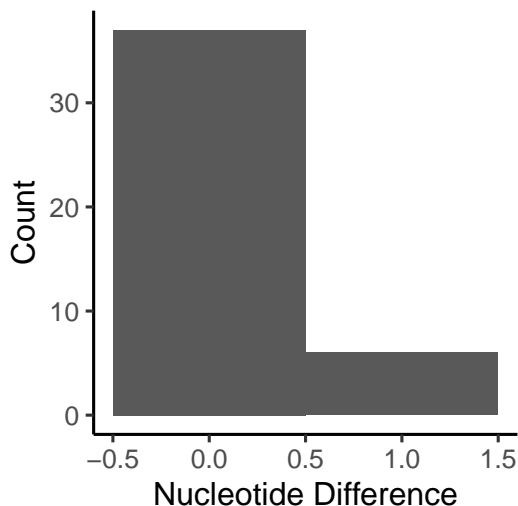
### IGKV3–15\*01\_C141G

812 sequences assigned  
619 (76.2%) exact matches, in which:  
479 unique CDR3  
5 unique J



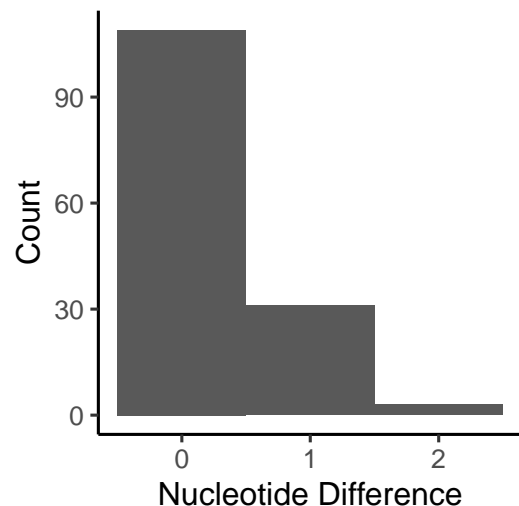
### IGKV5–2\*01

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



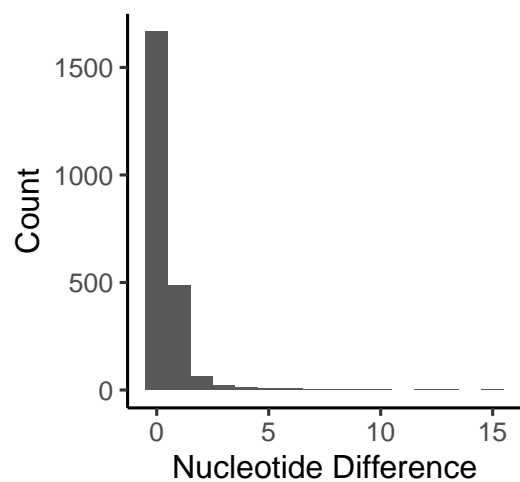
### IGKV1D–8\*01

143 sequences assigned  
109 (76.2%) exact matches, in which:  
75 unique CDR3  
5 unique J



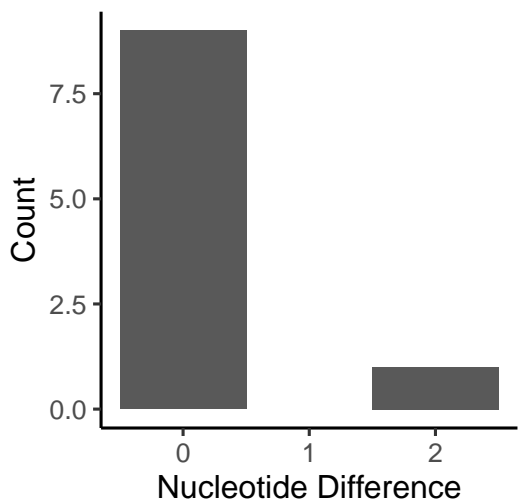
### IGKV3–20\*01

2267 sequences assigned  
1666 (73.5%) exact matches, in which:  
1193 unique CDR3  
5 unique J



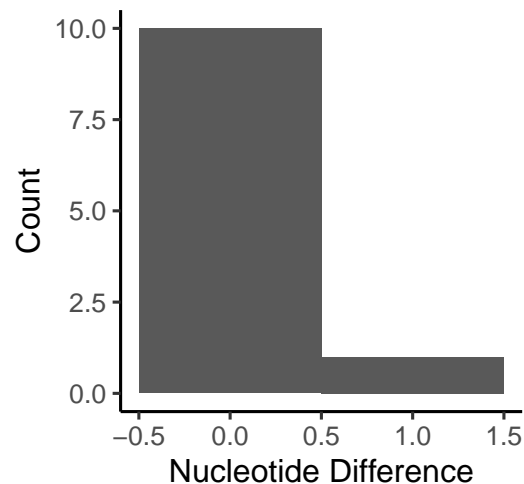
### IGKV7–3\*01

10 sequences assigned  
9 (90%) exact matches, in which:  
9 unique CDR3  
3 unique J



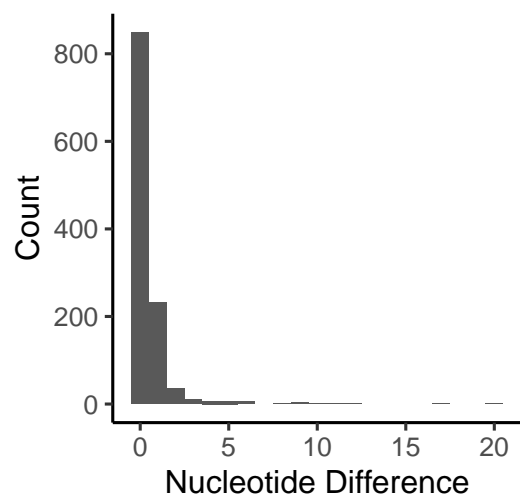
### IGKV3D–11\*01

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



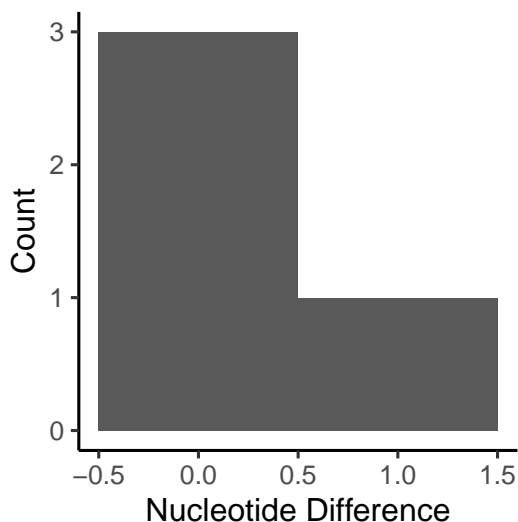
### IGKV4–1\*01

1154 sequences assigned  
849 (73.6%) exact matches, in which:  
586 unique CDR3  
5 unique J



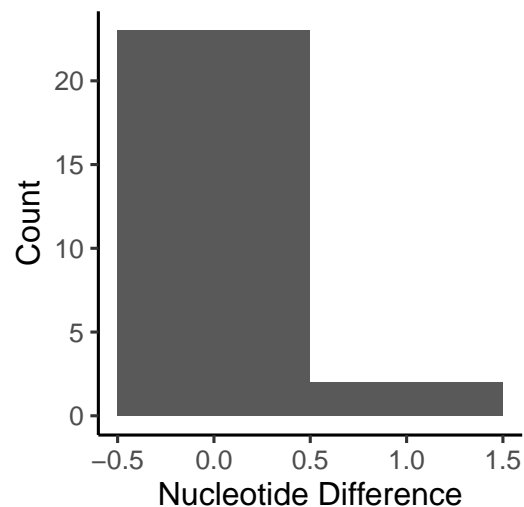
### IGKV3D–7\*01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
3 unique J



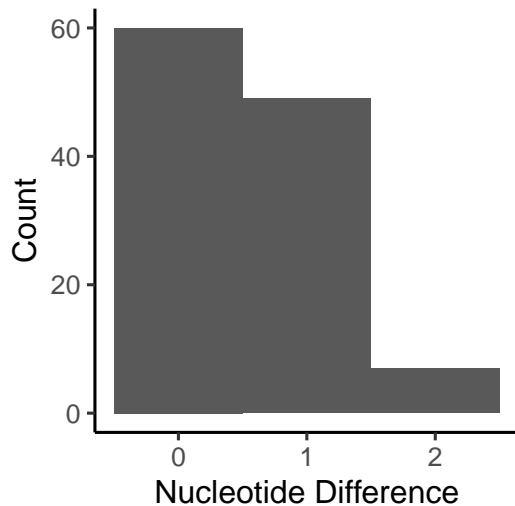
### IGKV3D–11\*02

25 sequences assigned  
23 (92%) exact matches, in which:  
21 unique CDR3  
4 unique J



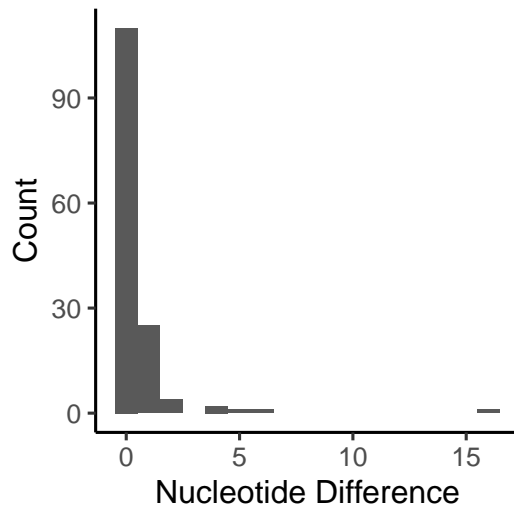
### IGKV3D-15\*01

116 sequences assigned  
60 (51.7%) exact matches, in which:  
49 unique CDR3  
5 unique J



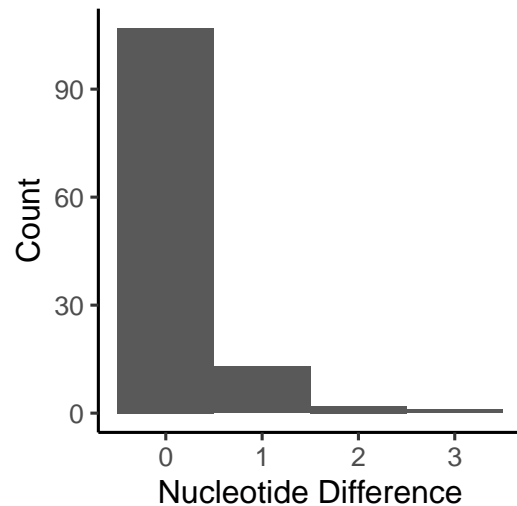
### IGKV3D-20\*01

144 sequences assigned  
110 (76.4%) exact matches, in which:  
100 unique CDR3  
5 unique J



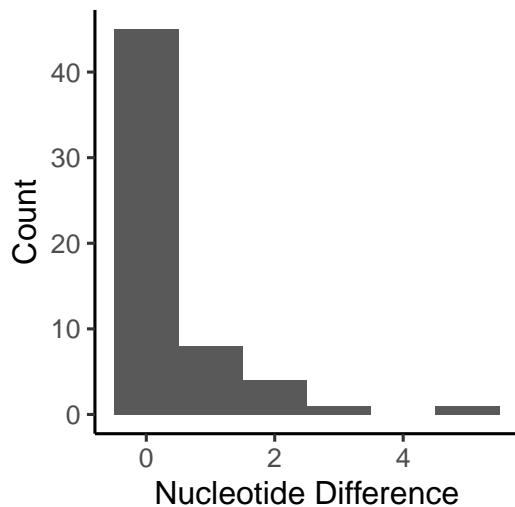
### IGKV2D-29\*01

125 sequences assigned  
107 (85.6%) exact matches, in which:  
90 unique CDR3  
5 unique J



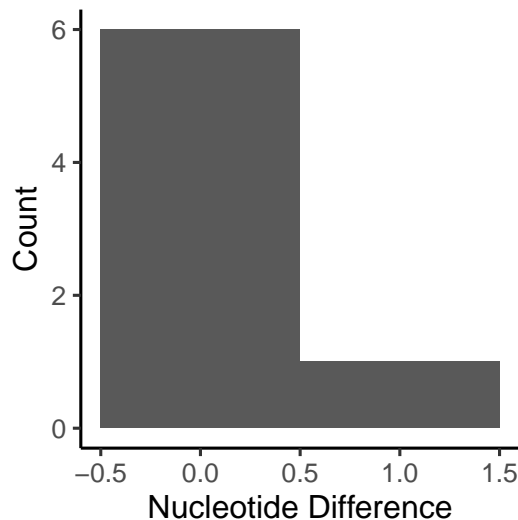
### IGKV1D-16\*01

59 sequences assigned  
45 (76.3%) exact matches, in which:  
35 unique CDR3  
5 unique J



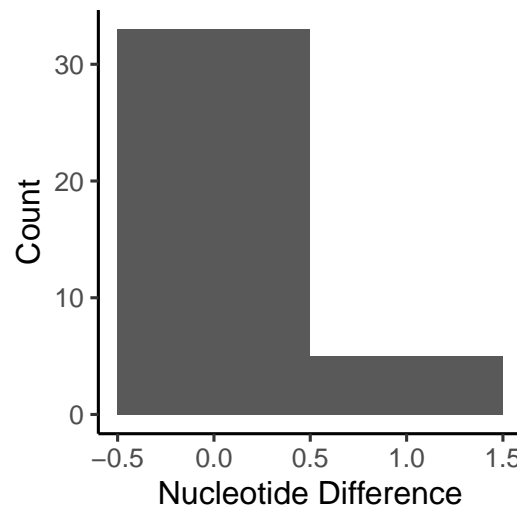
### IGKV2D-24\*01

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



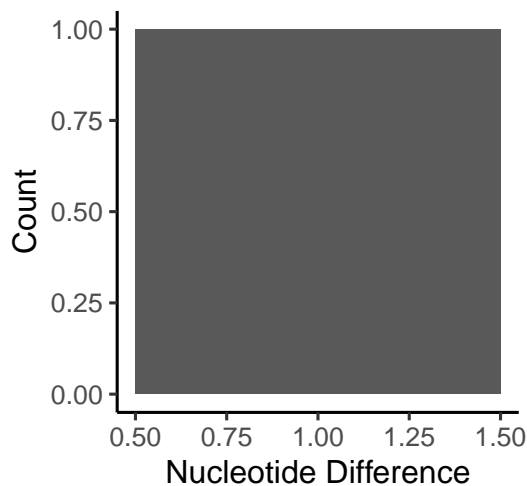
### IGKV2D-30\*01

38 sequences assigned  
33 (86.8%) exact matches, in which:  
29 unique CDR3  
5 unique J



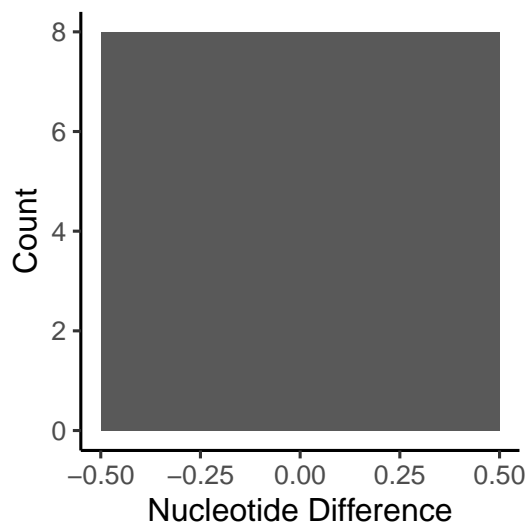
### IGKV2D-18\*01

1 sequences assigned  
No exact matches.



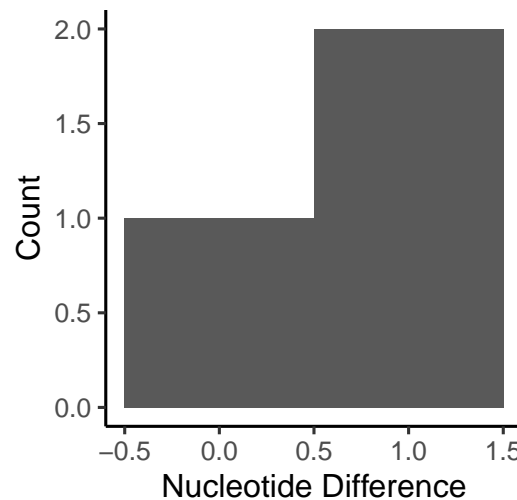
### IGKV2D-26\*03

8 sequences assigned  
8 (100%) exact matches, in which:  
8 unique CDR3  
3 unique J



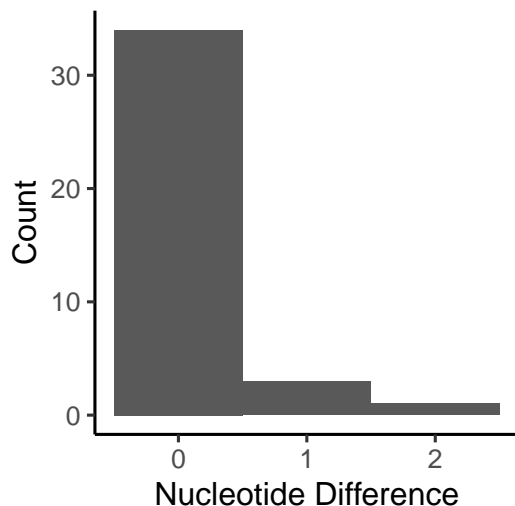
### IGKV6D-41\*01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



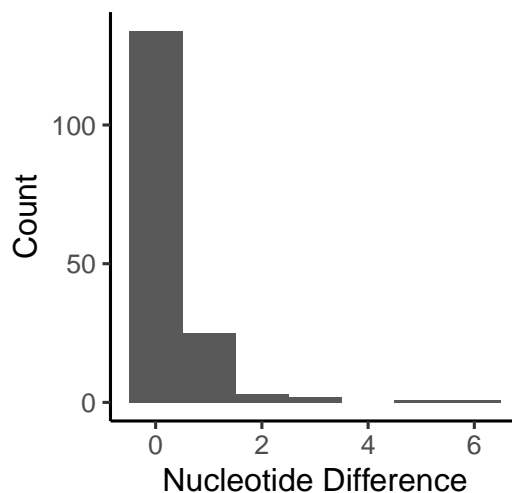
### IGKV1D-43\*01

38 sequences assigned  
34 (89.5%) exact matches, in which:  
34 unique CDR3  
5 unique J



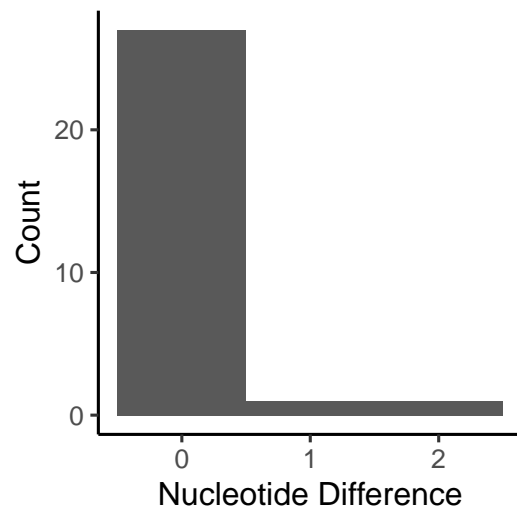
### IGKV1E-12\*03

166 sequences assigned  
134 (80.7%) exact matches, in which:  
106 unique CDR3  
5 unique J



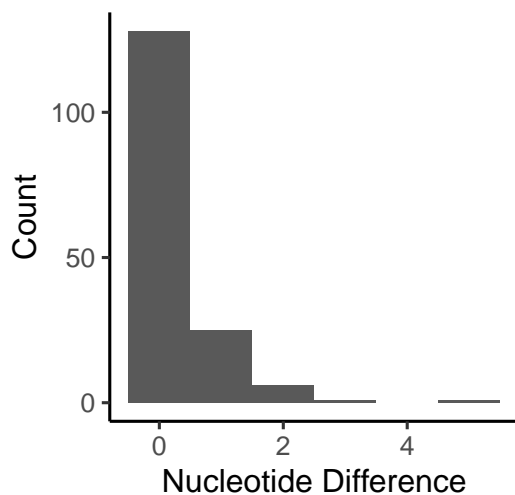
### IGKV6E-21\*03

29 sequences assigned  
27 (93.1%) exact matches, in which:  
20 unique CDR3  
5 unique J



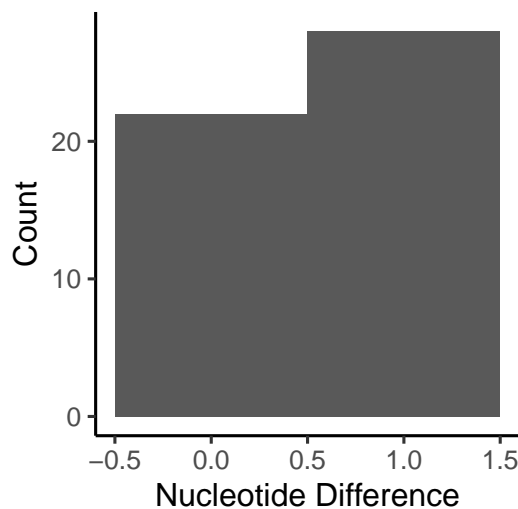
### IGKV1E-12\*01

161 sequences assigned  
128 (79.5%) exact matches, in which:  
88 unique CDR3  
5 unique J



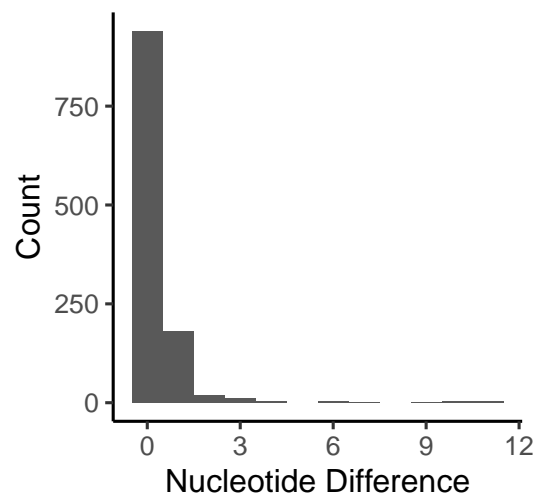
### IGKV1E-13\*03

50 sequences assigned  
22 (44%) exact matches, in which:  
17 unique CDR3  
4 unique J



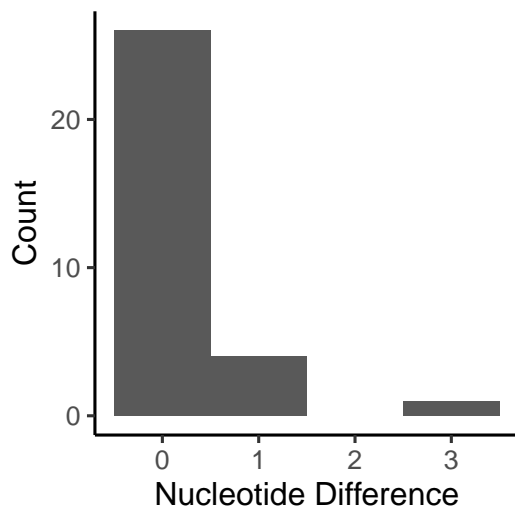
### IGKV2E-28\*01

1168 sequences assigned  
940 (80.5%) exact matches, in which:  
640 unique CDR3  
5 unique J



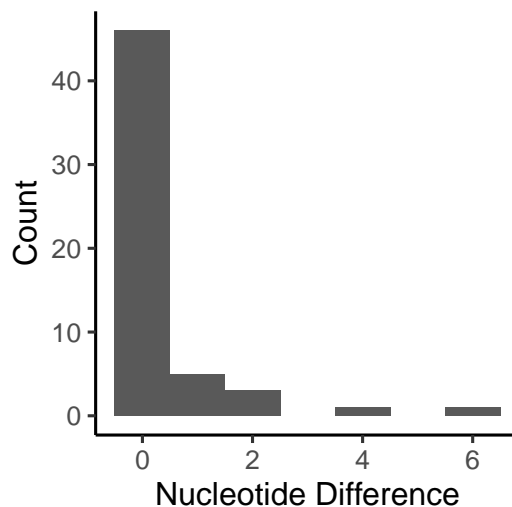
### IGKV1E-12\*02

31 sequences assigned  
26 (83.9%) exact matches, in which:  
19 unique CDR3  
5 unique J



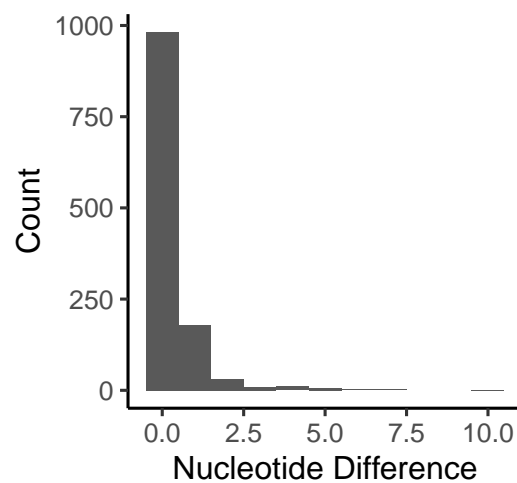
### IGKV6E-21\*01

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



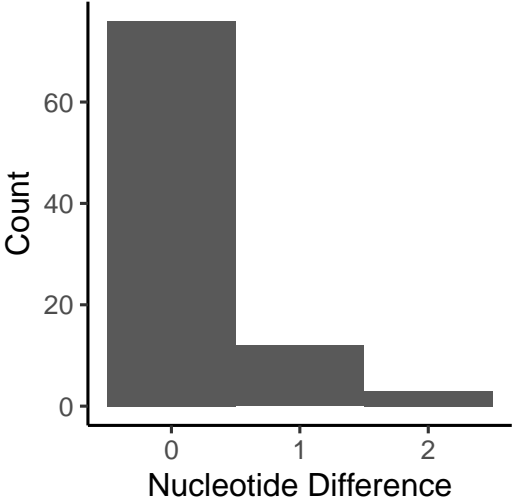
### IGKV1E-33\*01

1223 sequences assigned  
982 (80.3%) exact matches, in which:  
696 unique CDR3  
5 unique J



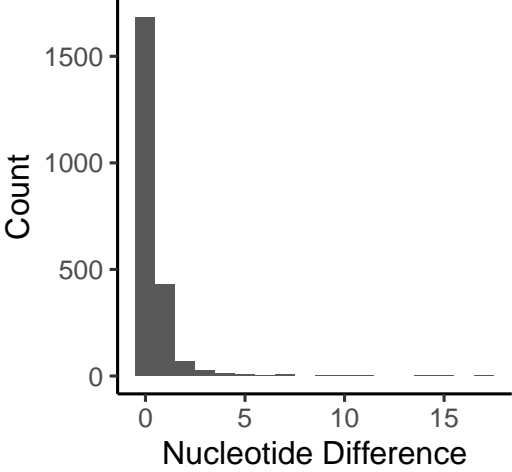
# IGKV1E-37\*01

91 sequences assigned  
76 (83.5%) exact matches, in which:  
64 unique CDR3  
5 unique J



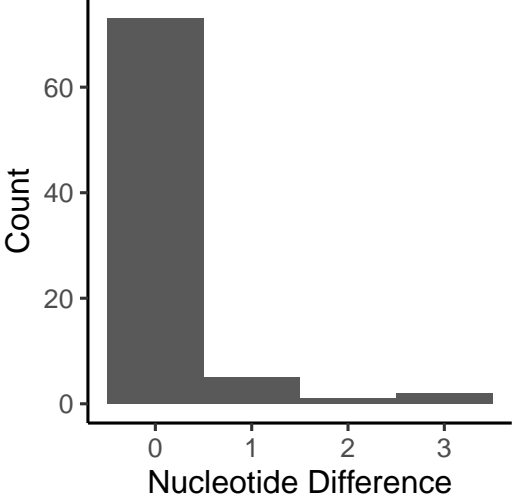
# IGKV1E-39\*01

2244 sequences assigned  
1681 (74.9%) exact matches, in which:  
1169 unique CDR3  
5 unique J



# IGKV2E-40\*01

81 sequences assigned  
73 (90.1%) exact matches, in which:  
55 unique CDR3  
5 unique J





Warning – no inferred sequences found.