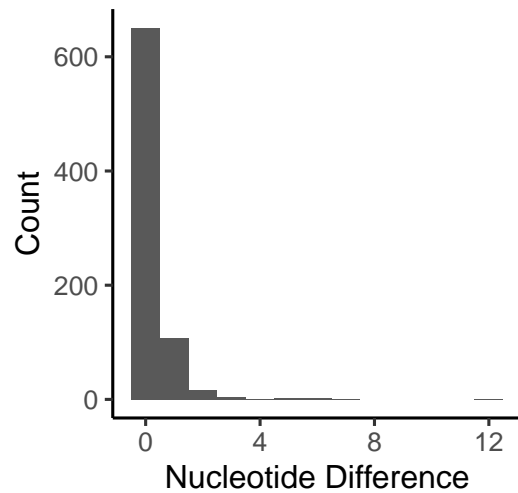


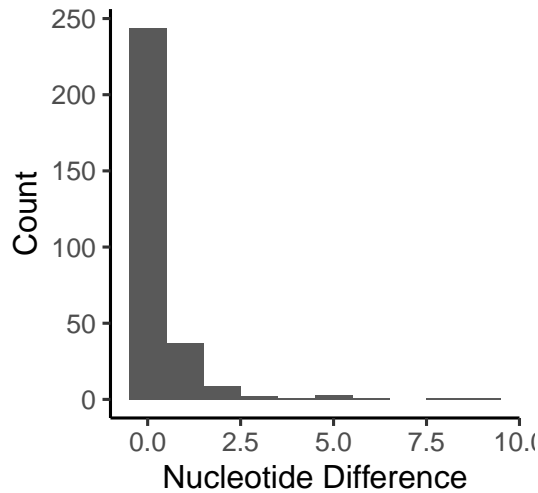
### IGKV1–5\*03

787 sequences assigned  
651 (82.7%) exact matches, in which:  
526 unique CDR3  
5 unique J



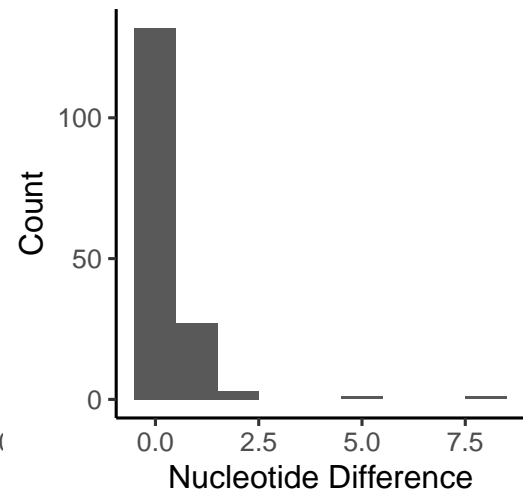
### IGKV1–9\*01

299 sequences assigned  
244 (81.6%) exact matches, in which:  
212 unique CDR3  
5 unique J



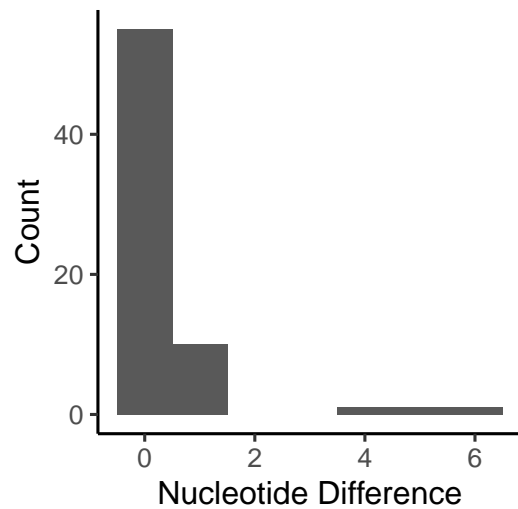
### IGKV1–27\*01

164 sequences assigned  
132 (80.5%) exact matches, in which:  
114 unique CDR3  
5 unique J



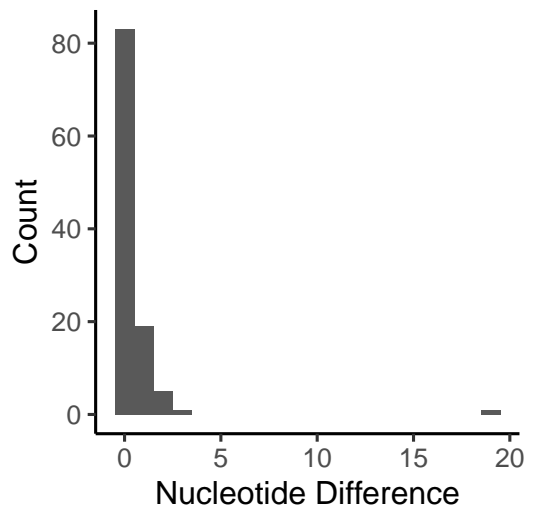
### IGKV1–6\*01

68 sequences assigned  
55 (80.9%) exact matches, in which:  
42 unique CDR3  
5 unique J



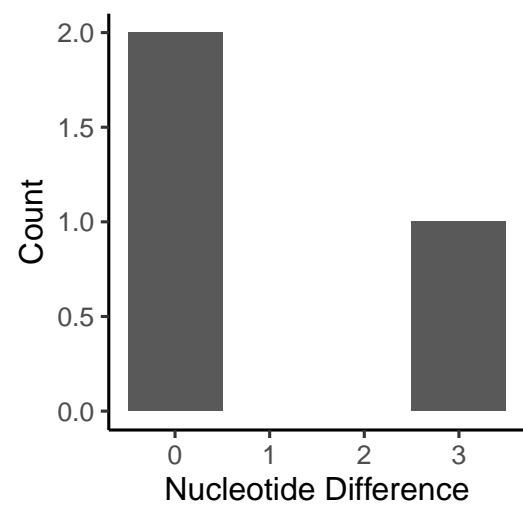
### IGKV1–16\*02

109 sequences assigned  
83 (76.1%) exact matches, in which:  
59 unique CDR3  
5 unique J



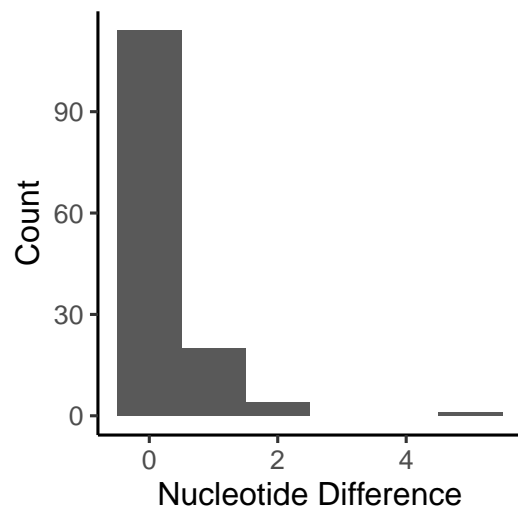
### IGKV2/OR22–4\*01

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



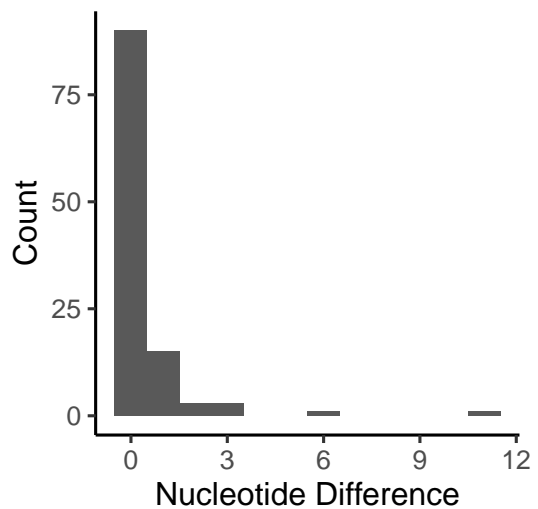
### IGKV1–8\*01

139 sequences assigned  
114 (82%) exact matches, in which:  
91 unique CDR3  
5 unique J



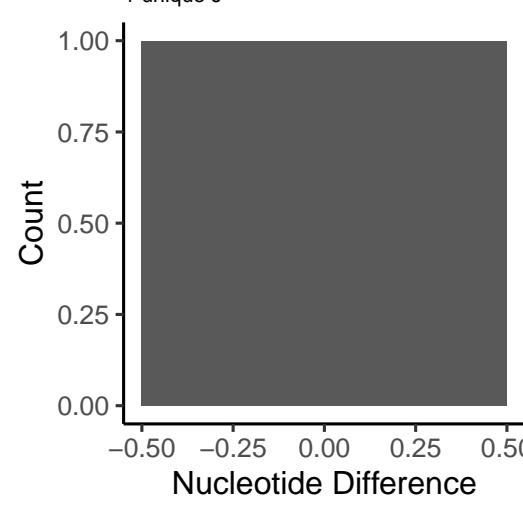
### IGKV1–17\*01

113 sequences assigned  
90 (79.6%) exact matches, in which:  
77 unique CDR3  
5 unique J



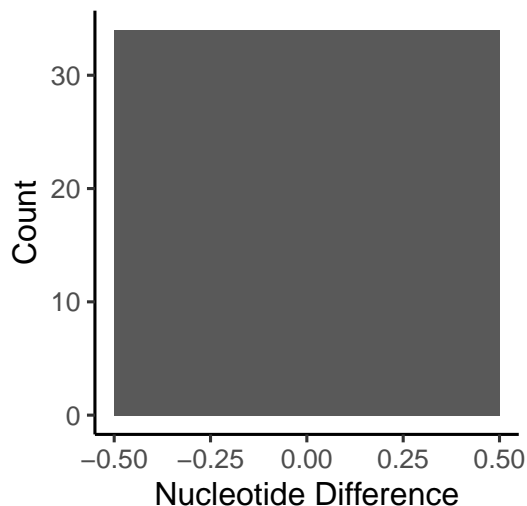
### IGKV2–18\*01

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



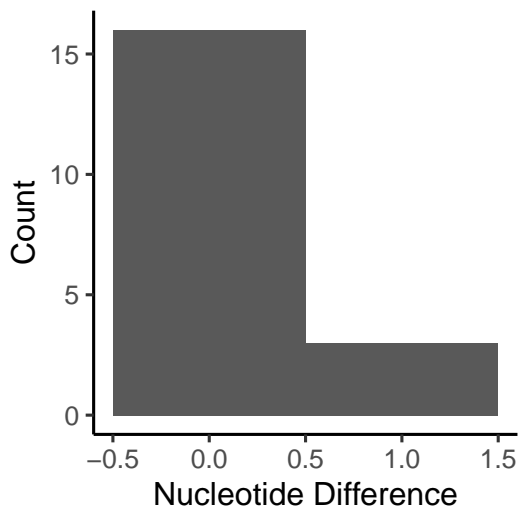
### IGKV2-24\*01

34 sequences assigned  
34 (100%) exact matches, in which:  
30 unique CDR3  
5 unique J



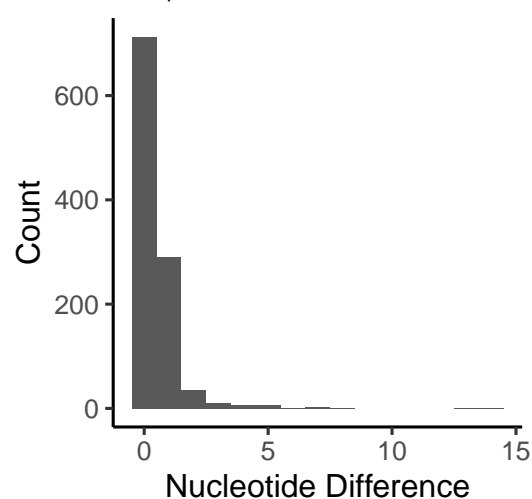
### IGKV3-7\*04

19 sequences assigned  
16 (84.2%) exact matches, in which:  
14 unique CDR3  
4 unique J



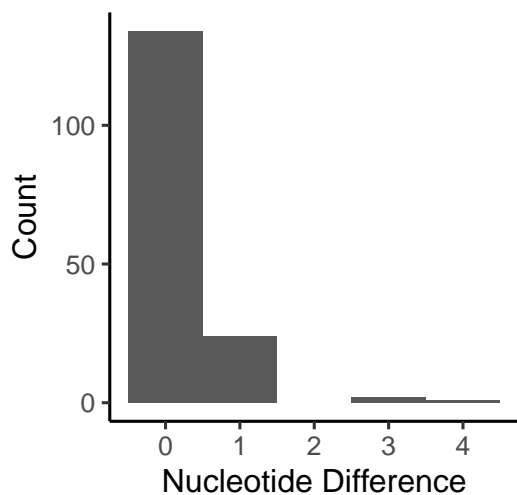
### IGKV3-15\*01

1068 sequences assigned  
713 (66.8%) exact matches, in which:  
583 unique CDR3  
5 unique J



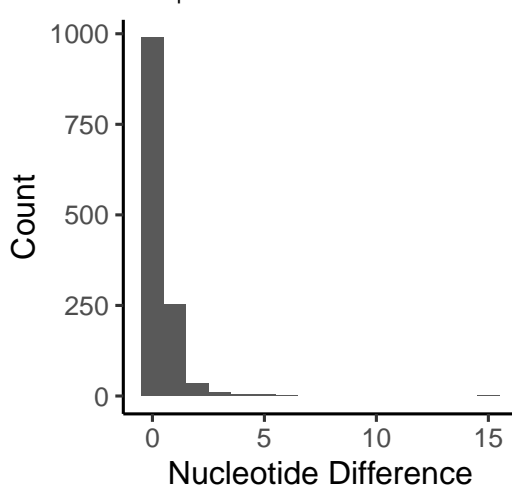
### IGKV2-30\*01

161 sequences assigned  
134 (83.2%) exact matches, in which:  
126 unique CDR3  
5 unique J



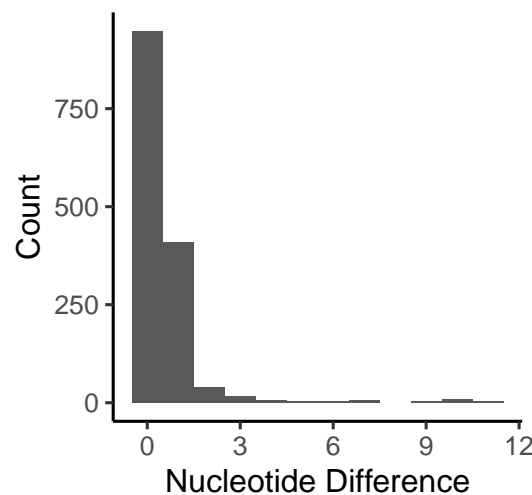
### IGKV3-11\*01

1294 sequences assigned  
989 (76.4%) exact matches, in which:  
793 unique CDR3  
5 unique J



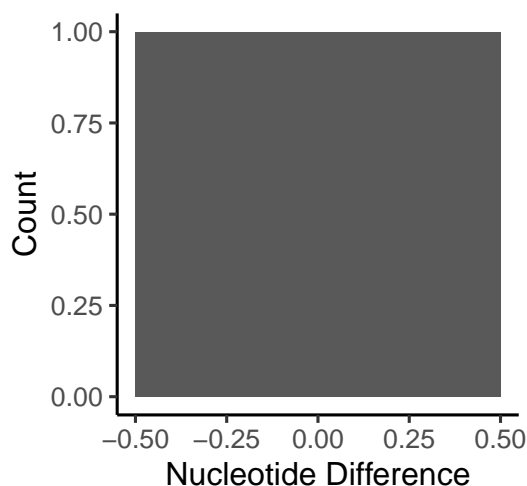
### IGKV3-20\*01

1454 sequences assigned  
948 (65.2%) exact matches, in which:  
748 unique CDR3  
5 unique J



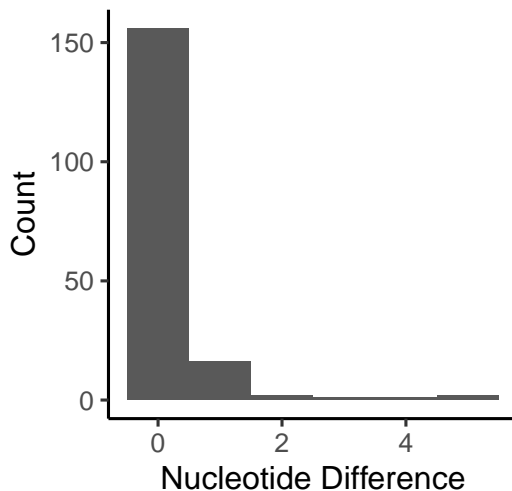
### IGKV1/OR2-108\*01

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



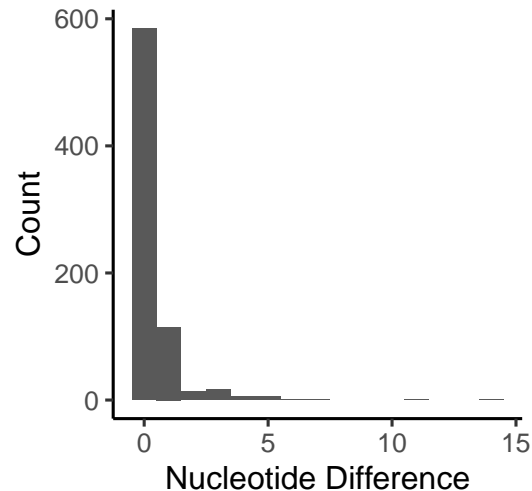
### IGKV3-11\*01\_A223C

178 sequences assigned  
156 (87.6%) exact matches, in which:  
151 unique CDR3  
5 unique J



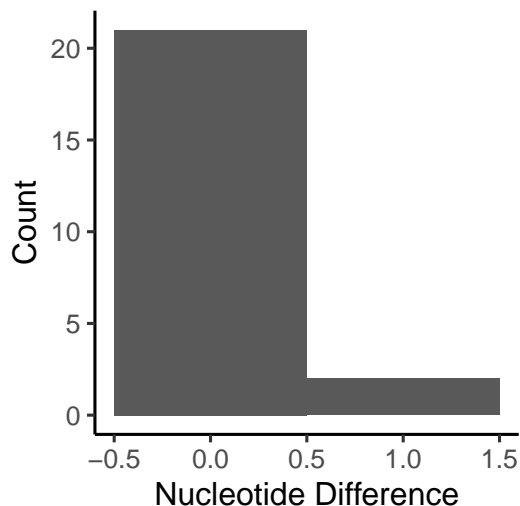
### IGKV4-1\*01

745 sequences assigned  
585 (78.5%) exact matches, in which:  
436 unique CDR3  
5 unique J



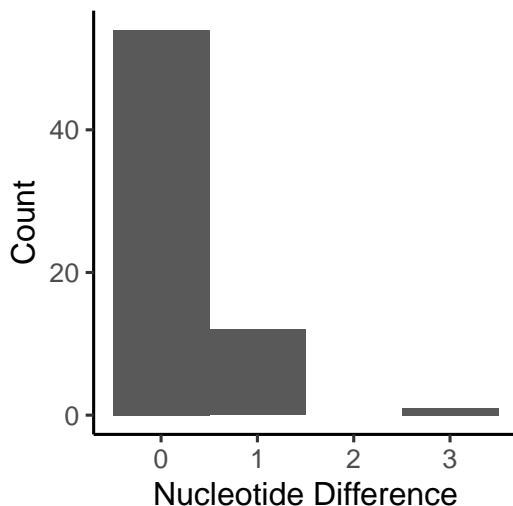
### IGKV5-2\*01

23 sequences assigned  
21 (91.3%) exact matches, in which:  
21 unique CDR3  
4 unique J



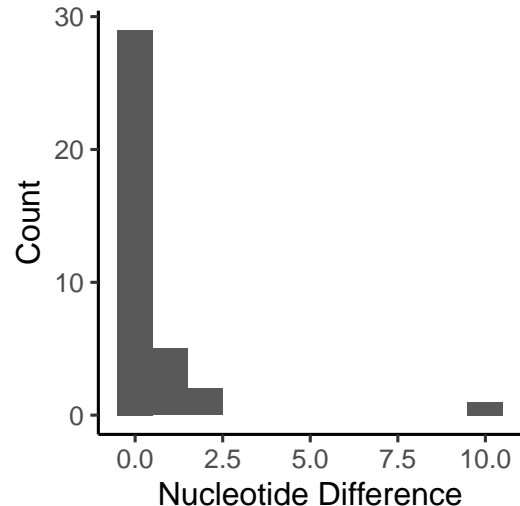
### IGKV1D-8\*01

67 sequences assigned  
54 (80.6%) exact matches, in which:  
43 unique CDR3  
5 unique J



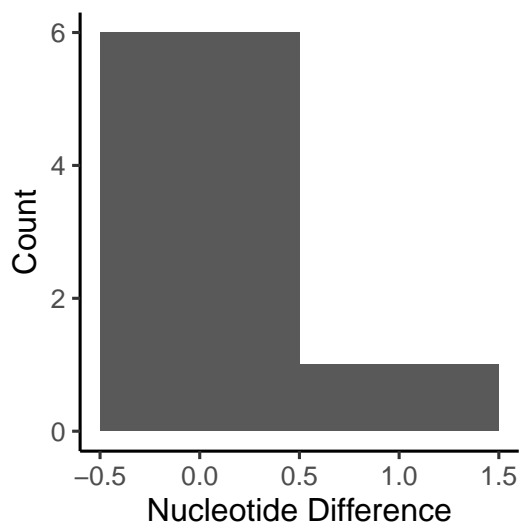
### IGKV1D-16\*01

37 sequences assigned  
29 (78.4%) exact matches, in which:  
24 unique CDR3  
5 unique J



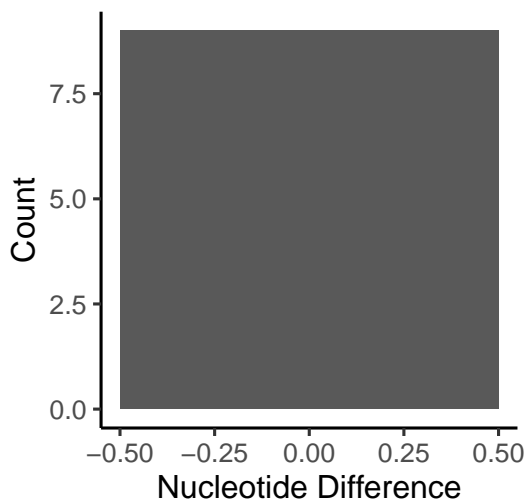
### IGKV7-3\*01

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



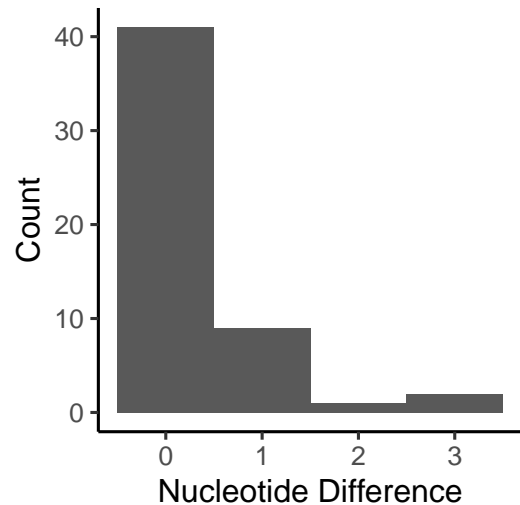
### IGKV3D-11\*01

9 sequences assigned  
9 (100%) exact matches, in which:  
8 unique CDR3  
3 unique J



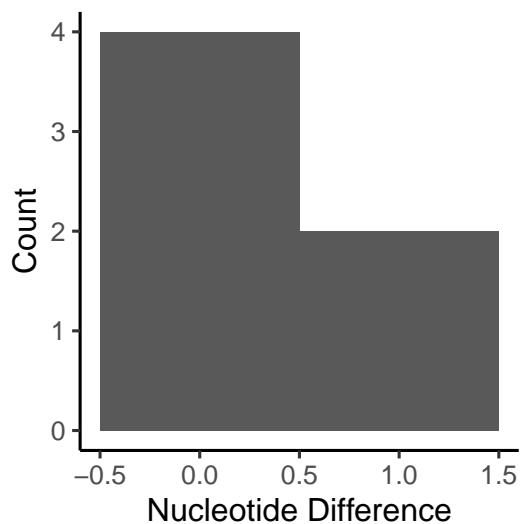
### IGKV3D-20\*01

53 sequences assigned  
41 (77.4%) exact matches, in which:  
40 unique CDR3  
5 unique J



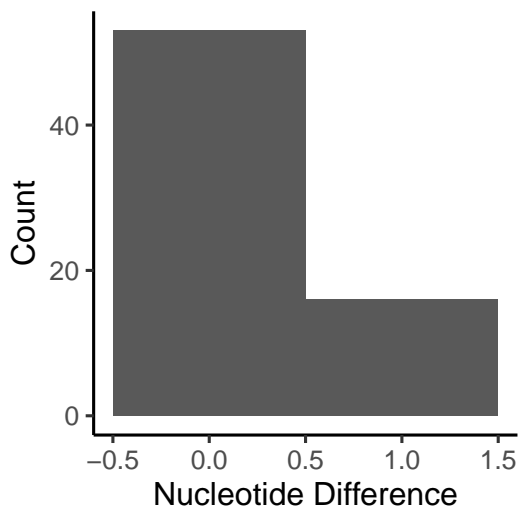
### IGKV3D-7\*01

6 sequences assigned  
4 (66.7%) exact matches, in which:  
4 unique CDR3  
2 unique J



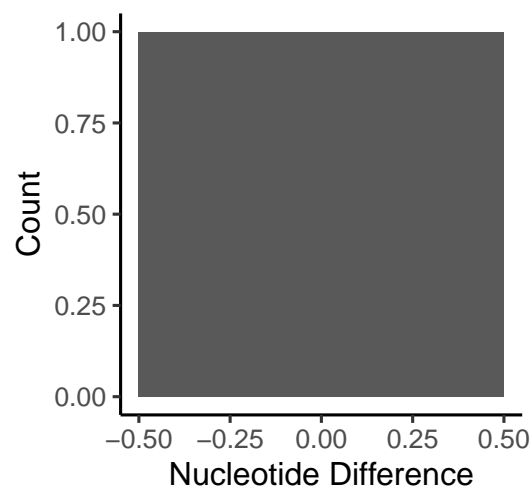
### IGKV3D-15\*01

69 sequences assigned  
53 (76.8%) exact matches, in which:  
47 unique CDR3  
5 unique J



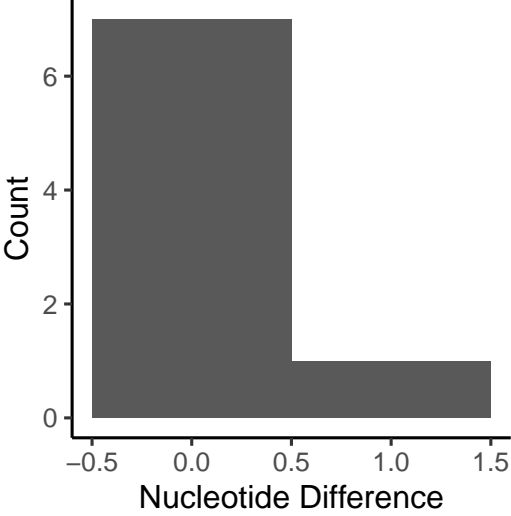
### IGKV2D-24\*01

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



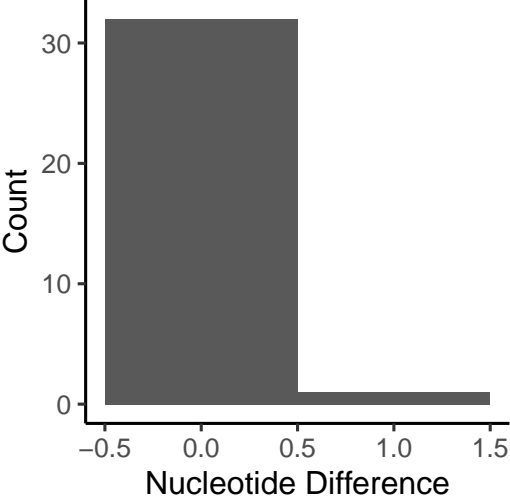
IGKV2D-26\*03

8 sequences assigned  
7 (87.5%) exact matches, in which:  
7 unique CDR3  
3 unique J



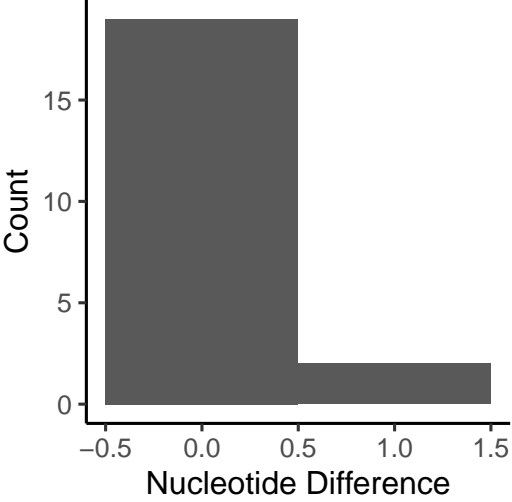
IGKV1D-43\*01

33 sequences assigned  
32 (97%) exact matches, in which:  
31 unique CDR3  
5 unique J



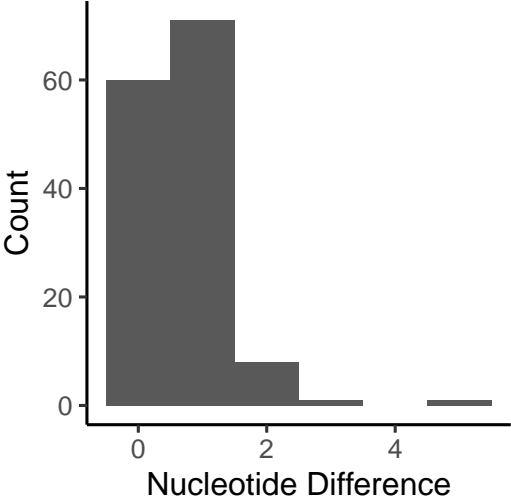
IGKV1E-13\*03

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



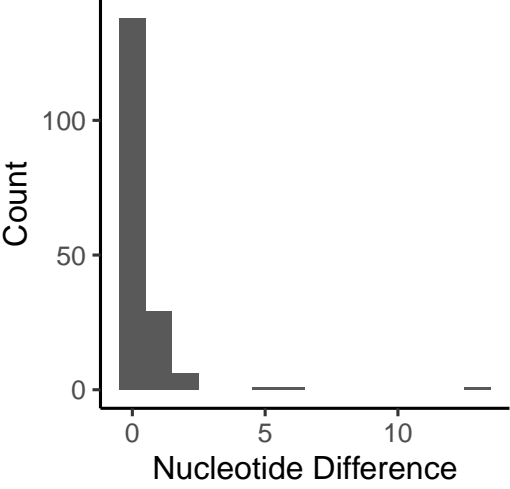
IGKV2D-29\*01

141 sequences assigned  
60 (42.6%) exact matches, in which:  
56 unique CDR3  
5 unique J



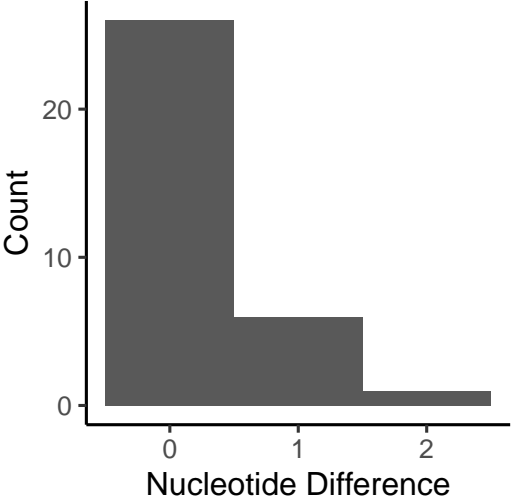
IGKV1E-12\*01

176 sequences assigned  
138 (78.4%) exact matches, in which:  
112 unique CDR3  
5 unique J



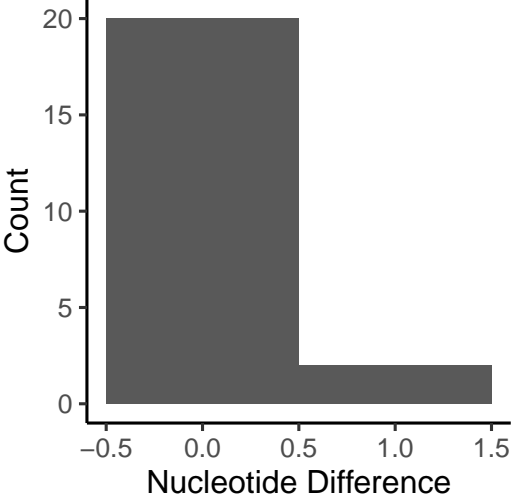
IGKV6E-21\*01

33 sequences assigned  
26 (78.8%) exact matches, in which:  
22 unique CDR3  
5 unique J



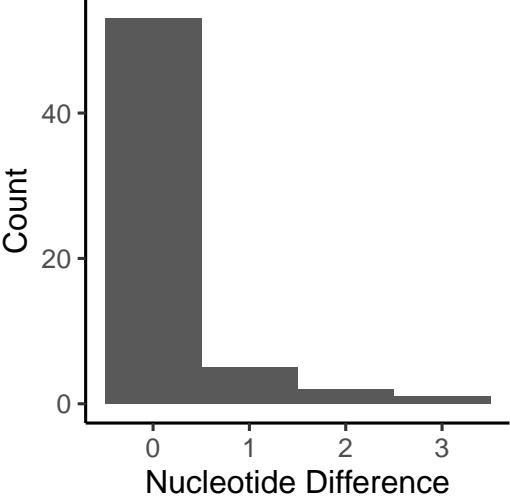
IGKV2D-30\*01

22 sequences assigned  
20 (90.9%) exact matches, in which:  
20 unique CDR3  
5 unique J



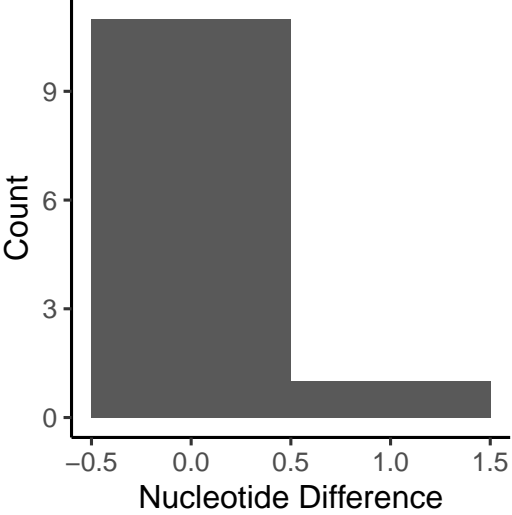
IGKV1E-12\*03

61 sequences assigned  
53 (86.9%) exact matches, in which:  
45 unique CDR3  
5 unique J



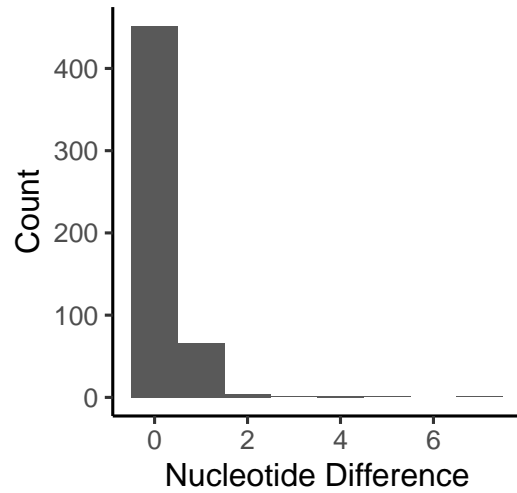
IGKV6E-21\*03

12 sequences assigned  
11 (91.7%) exact matches, in which:  
11 unique CDR3  
4 unique J



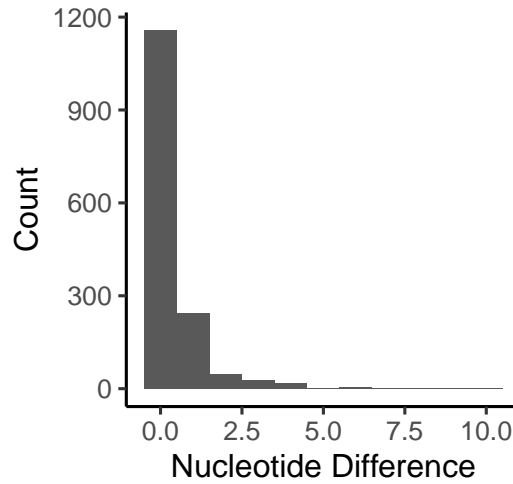
### IGKV2E-28\*01

527 sequences assigned  
452 (85.8%) exact matches, in which:  
365 unique CDR3  
5 unique J



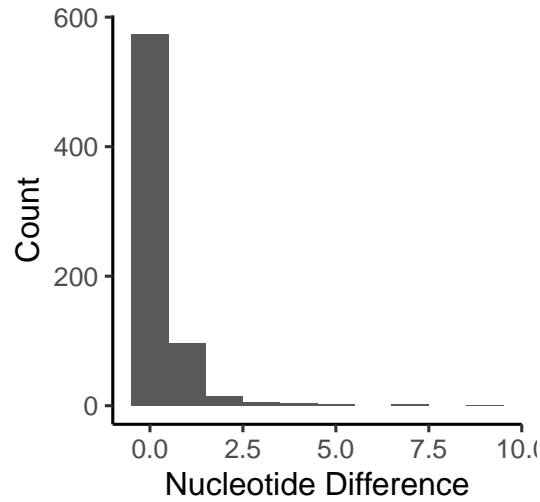
### IGKV1E-39\*01

1510 sequences assigned  
1157 (76.6%) exact matches, in which:  
851 unique CDR3  
5 unique J



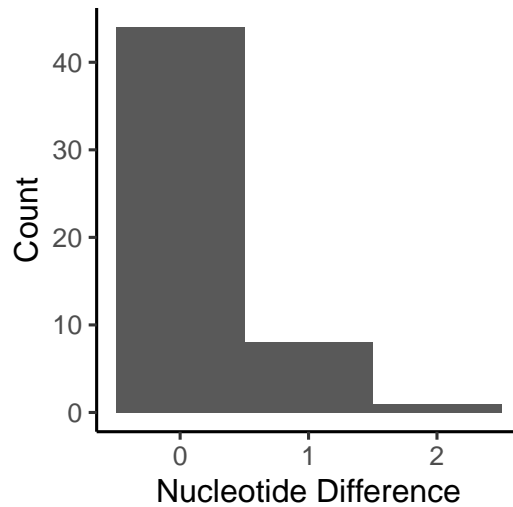
### IGKV1E-33\*01

701 sequences assigned  
574 (81.9%) exact matches, in which:  
454 unique CDR3  
5 unique J



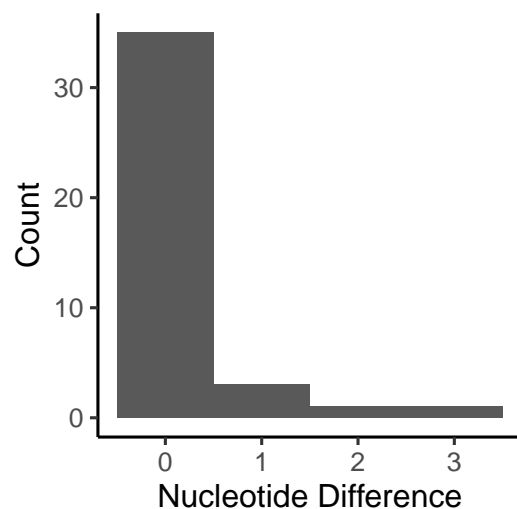
### IGKV2E-40\*01

53 sequences assigned  
44 (83%) exact matches, in which:  
38 unique CDR3  
5 unique J



### IGKV1E-37\*01

40 sequences assigned  
35 (87.5%) exact matches, in which:  
34 unique CDR3  
5 unique J





Warning – no inferred sequences found.