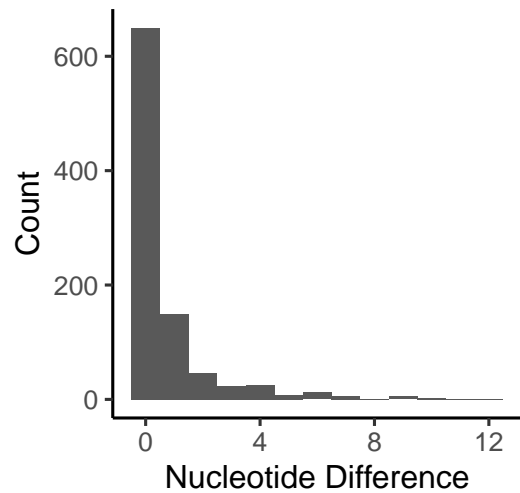


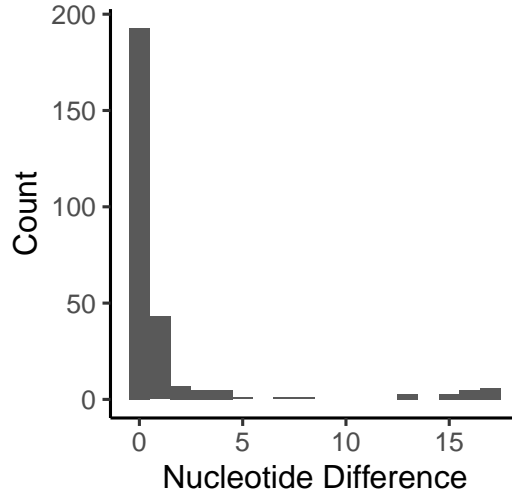
### IGKV1–5\*03

930 sequences assigned  
650 (69.9%) exact matches, in which:  
505 unique CDR3  
5 unique J



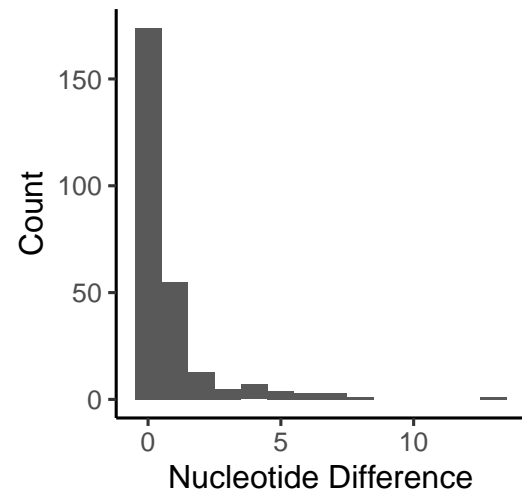
### IGKV1–9\*01

274 sequences assigned  
193 (70.4%) exact matches, in which:  
167 unique CDR3  
5 unique J



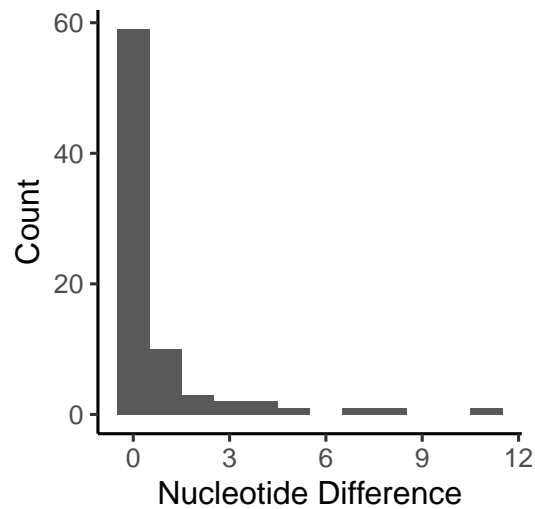
### IGKV1–27\*01

269 sequences assigned  
174 (64.7%) exact matches, in which:  
142 unique CDR3  
5 unique J



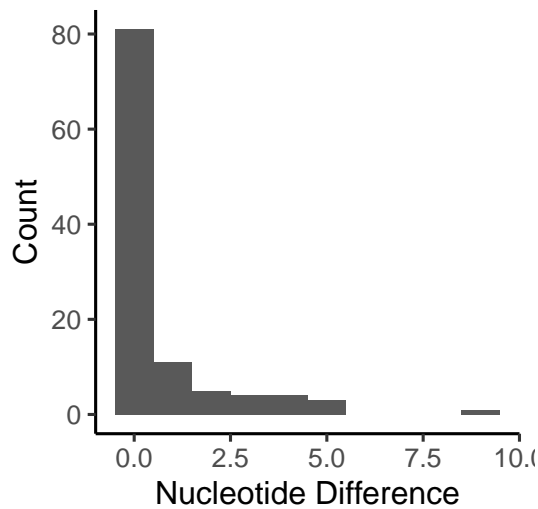
### IGKV1–6\*01

80 sequences assigned  
59 (73.8%) exact matches, in which:  
42 unique CDR3  
5 unique J



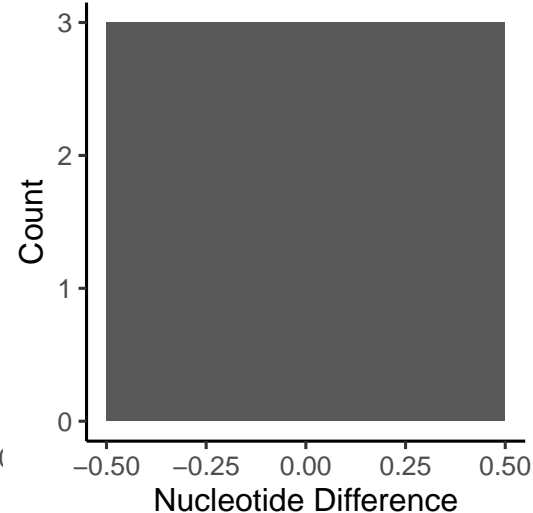
### IGKV1–16\*02

109 sequences assigned  
81 (74.3%) exact matches, in which:  
67 unique CDR3  
5 unique J



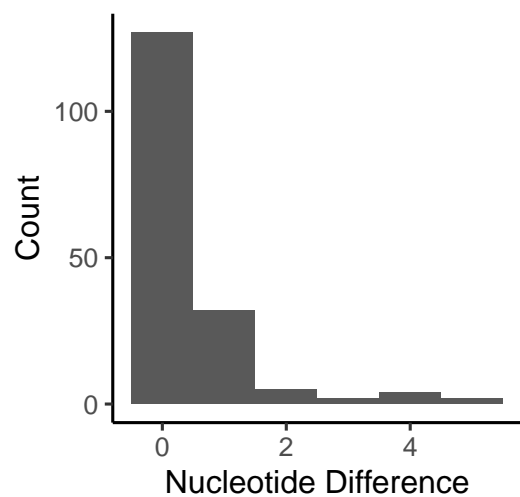
### IGKV2/OR22–4\*01

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



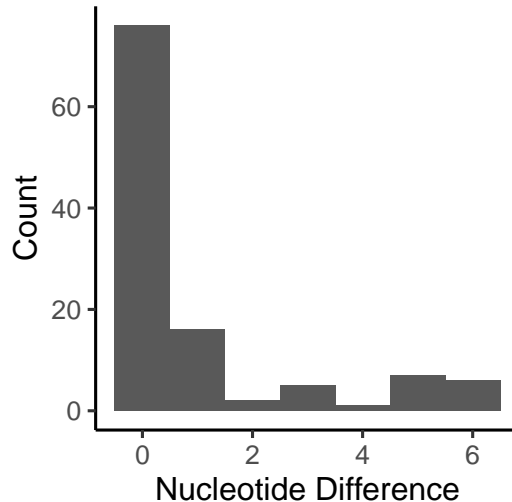
### IGKV1–8\*01

172 sequences assigned  
127 (73.8%) exact matches, in which:  
99 unique CDR3  
5 unique J



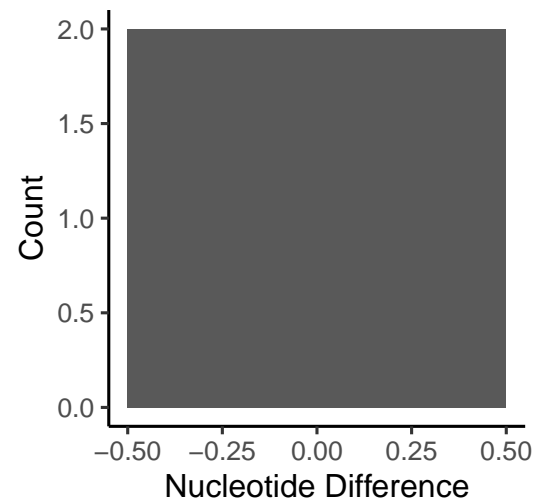
### IGKV1–17\*01

113 sequences assigned  
76 (67.3%) exact matches, in which:  
64 unique CDR3  
5 unique J



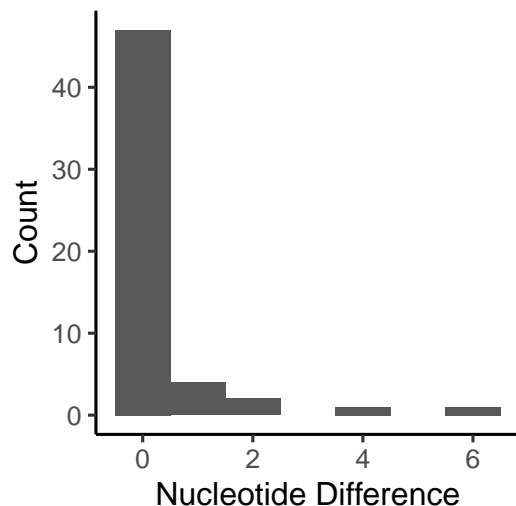
### IGKV2–18\*01

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



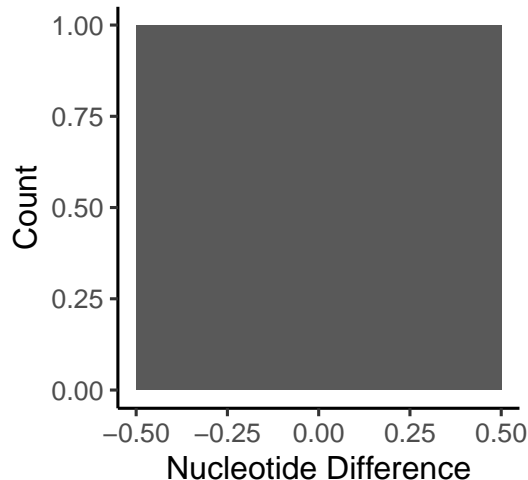
### IGKV2-24\*01

55 sequences assigned  
47 (85.5%) exact matches, in which:  
38 unique CDR3  
5 unique J



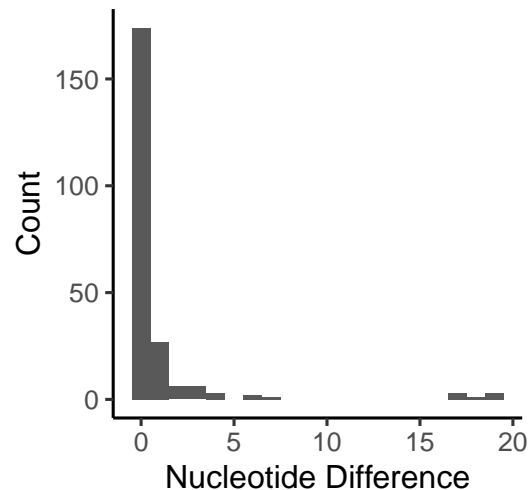
### IGKV3/OR2-268\*01

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



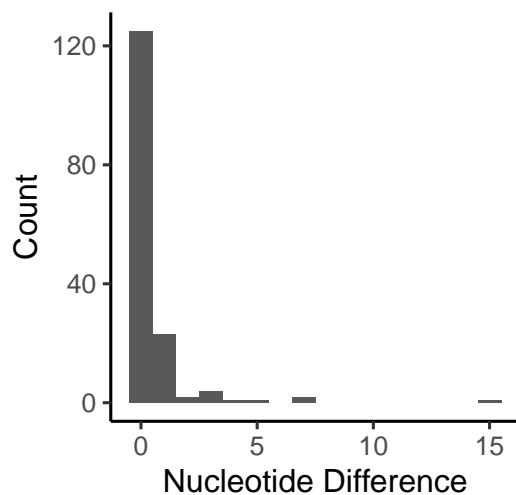
### IGKV3-11\*01\_A223C

226 sequences assigned  
174 (77%) exact matches, in which:  
168 unique CDR3  
5 unique J



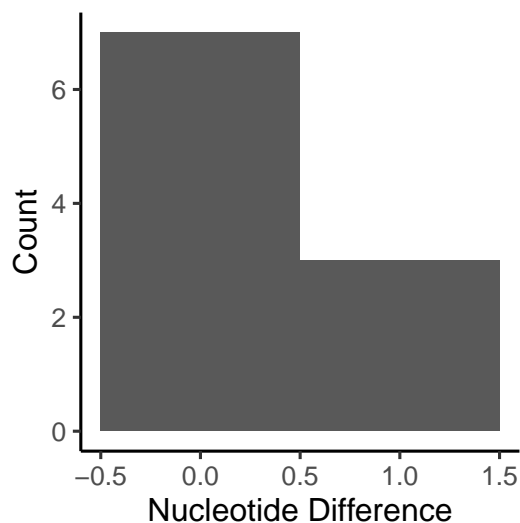
### IGKV2-30\*01

159 sequences assigned  
125 (78.6%) exact matches, in which:  
118 unique CDR3  
5 unique J



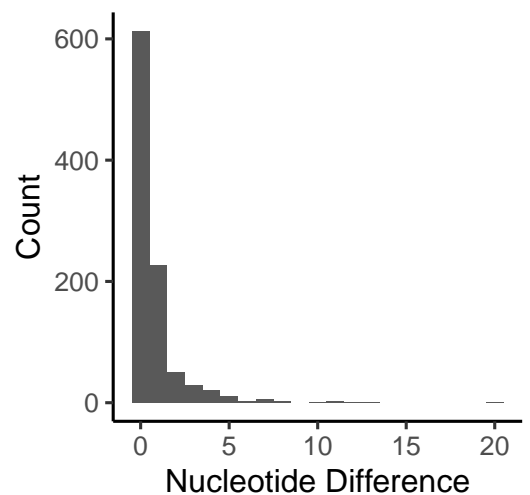
### IGKV3-7\*04

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



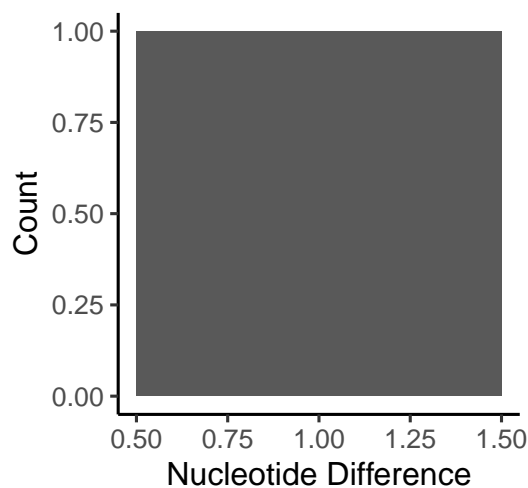
### IGKV3-15\*01

971 sequences assigned  
613 (63.1%) exact matches, in which:  
493 unique CDR3  
5 unique J



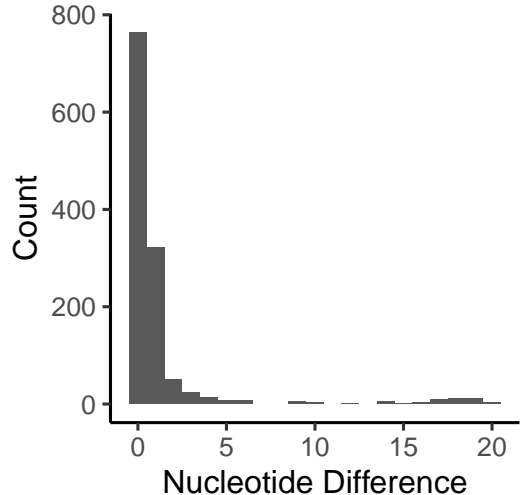
### IGKV1/OR2-108\*01

1 sequences assigned  
No exact matches.



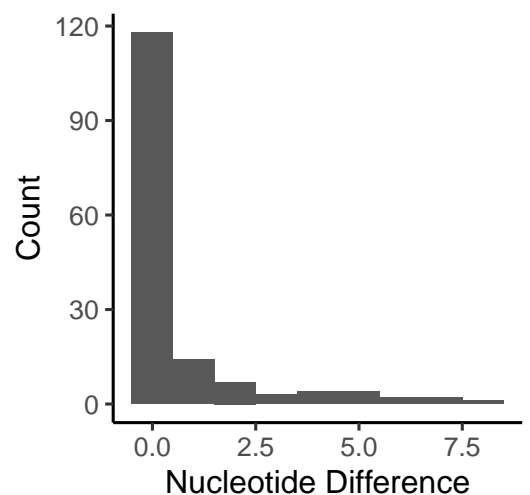
### IGKV3-11\*01

1247 sequences assigned  
764 (61.3%) exact matches, in which:  
637 unique CDR3  
5 unique J



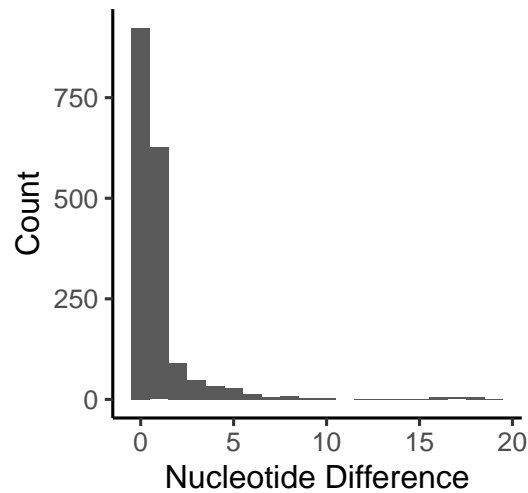
### IGKV3-15\*01\_A223C

155 sequences assigned  
118 (76.1%) exact matches, in which:  
116 unique CDR3  
5 unique J



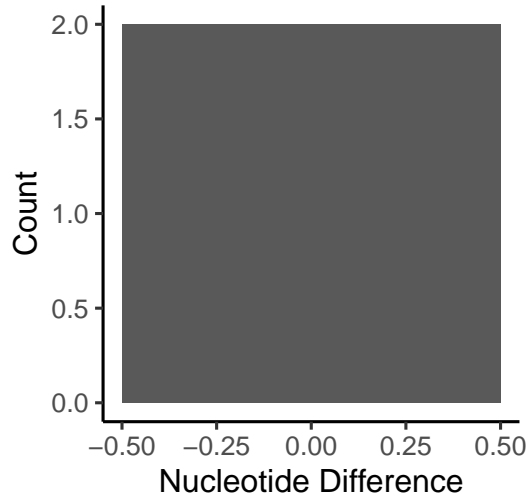
### IGKV3–20\*01

1817 sequences assigned  
924 (50.9%) exact matches, in which:  
759 unique CDR3  
5 unique J



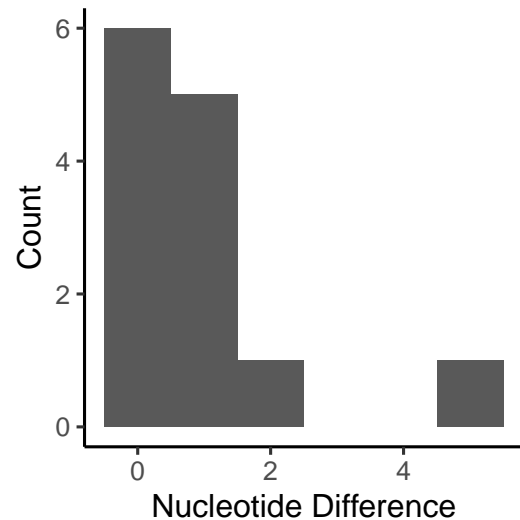
### IGKV7–3\*01

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



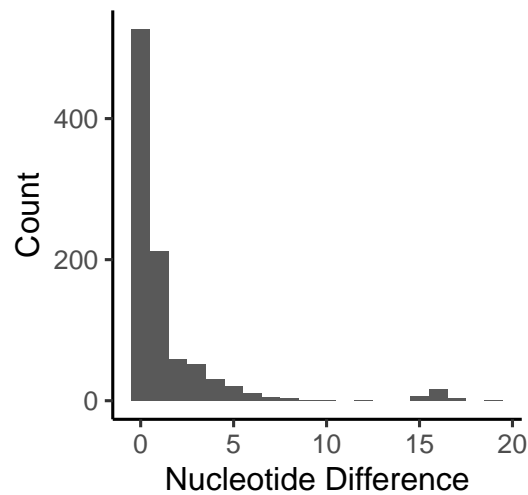
### IGKV3D–11\*01

13 sequences assigned  
6 (46.2%) exact matches, in which:  
6 unique CDR3  
4 unique J



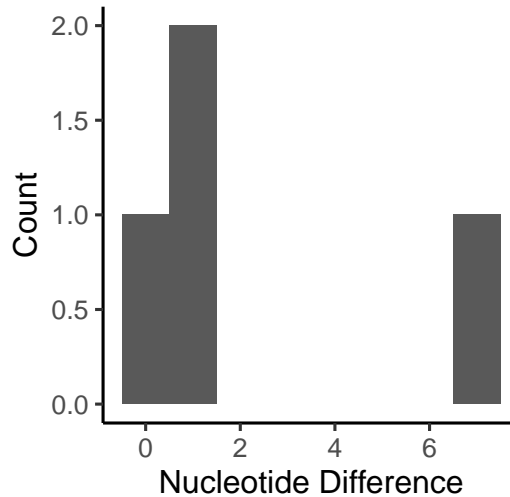
### IGKV4–1\*01

951 sequences assigned  
527 (55.4%) exact matches, in which:  
394 unique CDR3  
5 unique J



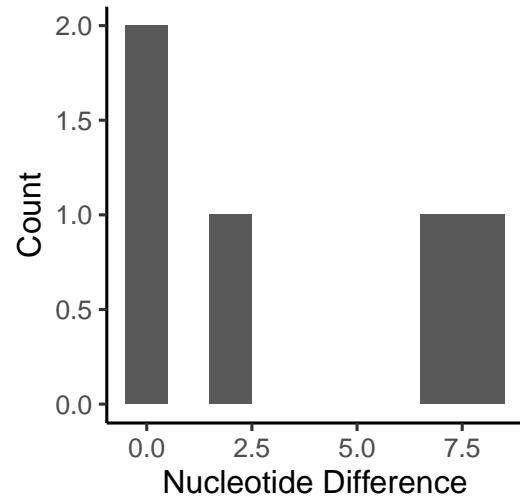
### IGKV3D–7\*01

4 sequences assigned  
1 (25%) exact matches, in which:  
1 unique CDR3  
1 unique J



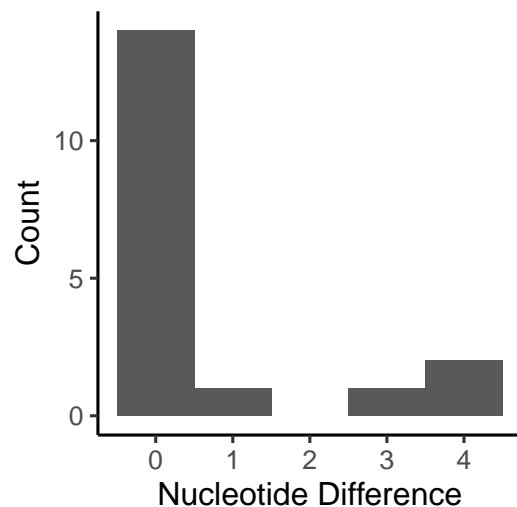
### IGKV3D–11\*02

5 sequences assigned  
2 (40%) exact matches, in which:  
2 unique CDR3  
2 unique J



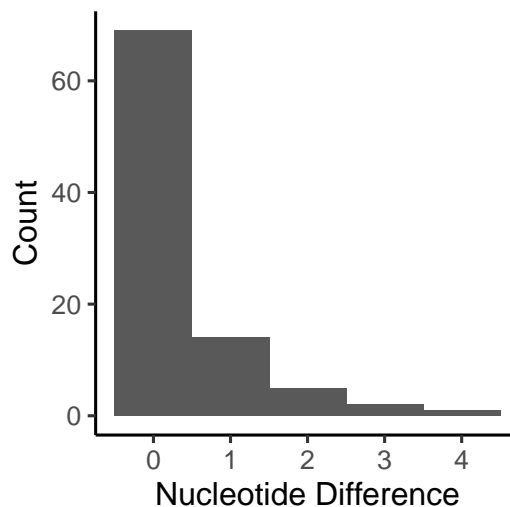
### IGKV5–2\*01

18 sequences assigned  
14 (77.8%) exact matches, in which:  
14 unique CDR3  
3 unique J



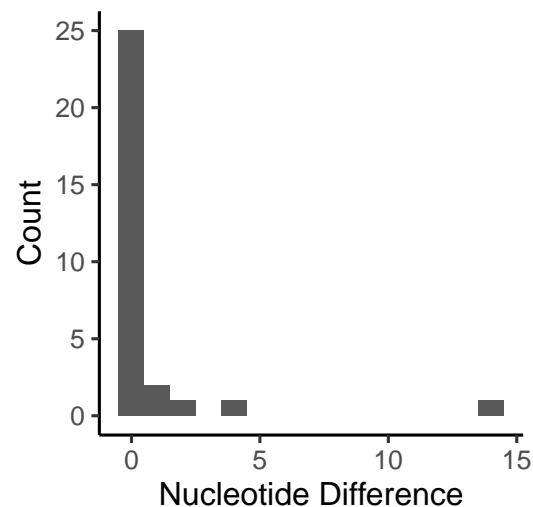
### IGKV1D–8\*01

91 sequences assigned  
69 (75.8%) exact matches, in which:  
50 unique CDR3  
5 unique J



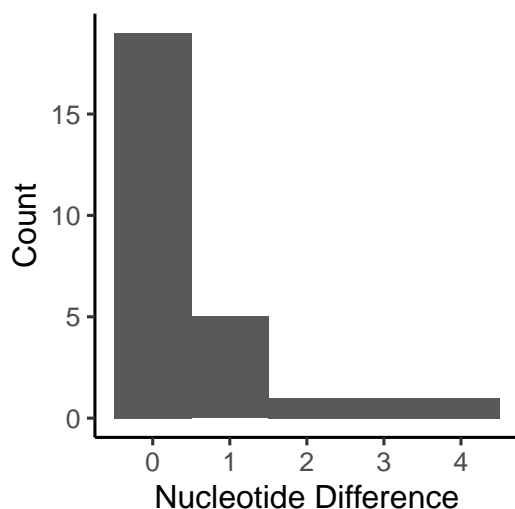
### IGKV3D–15\*01

31 sequences assigned  
25 (80.6%) exact matches, in which:  
21 unique CDR3  
5 unique J



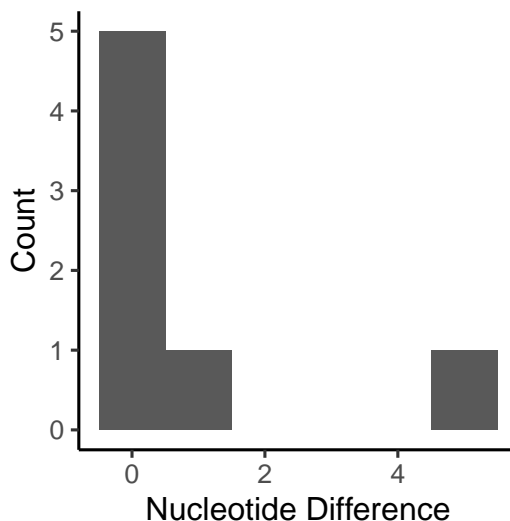
### IGKV1D-16\*01

27 sequences assigned  
19 (70.4%) exact matches, in which:  
16 unique CDR3  
5 unique J



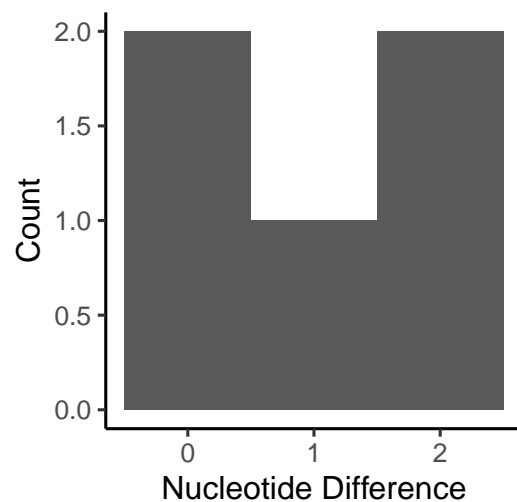
### IGKV2D-26\*03

7 sequences assigned  
5 (71.4%) exact matches, in which:  
5 unique CDR3  
4 unique J



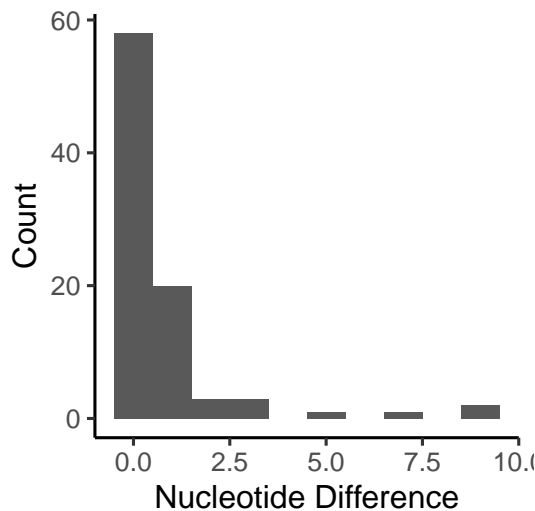
### IGKV6D-41\*01

5 sequences assigned  
2 (40%) exact matches, in which:  
2 unique CDR3  
2 unique J



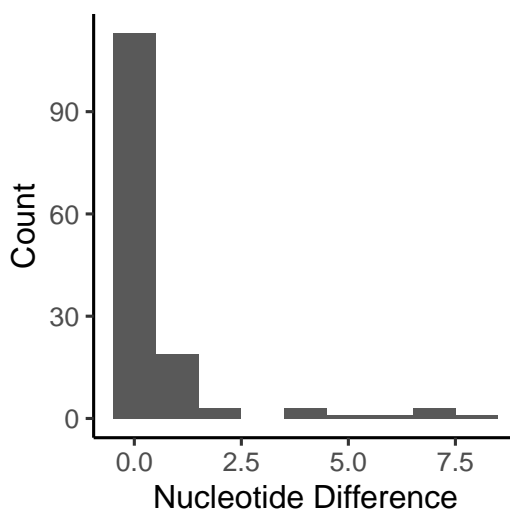
### IGKV3D-20\*01

88 sequences assigned  
58 (65.9%) exact matches, in which:  
53 unique CDR3  
5 unique J



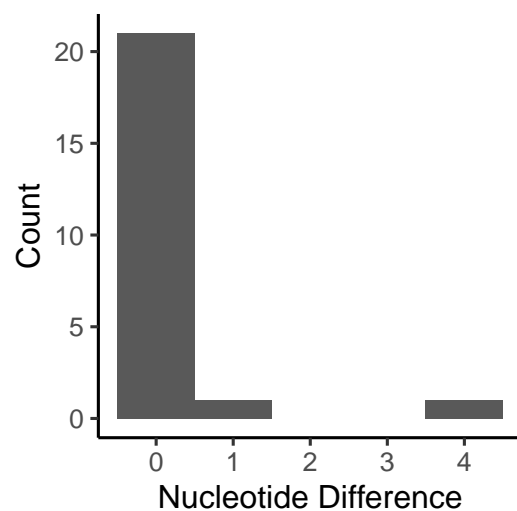
### IGKV2D-29\*01

144 sequences assigned  
113 (78.5%) exact matches, in which:  
101 unique CDR3  
5 unique J



### IGKV1D-43\*01

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



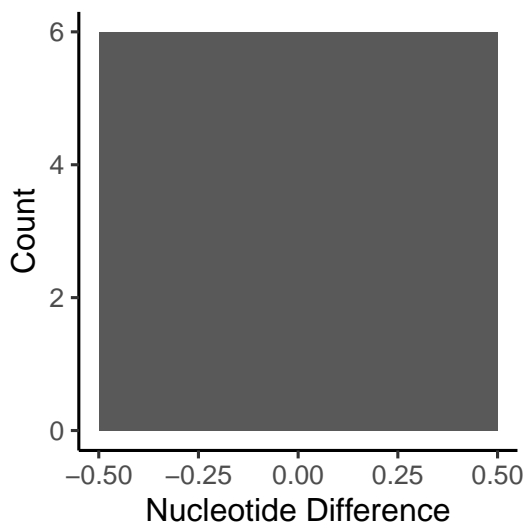
### IGKV2D-24\*01

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



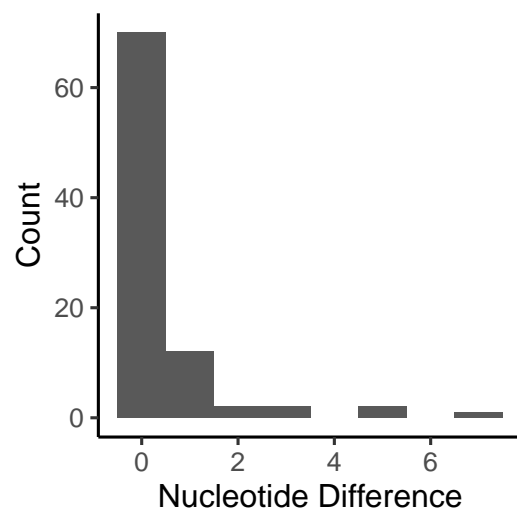
### IGKV2D-30\*01

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



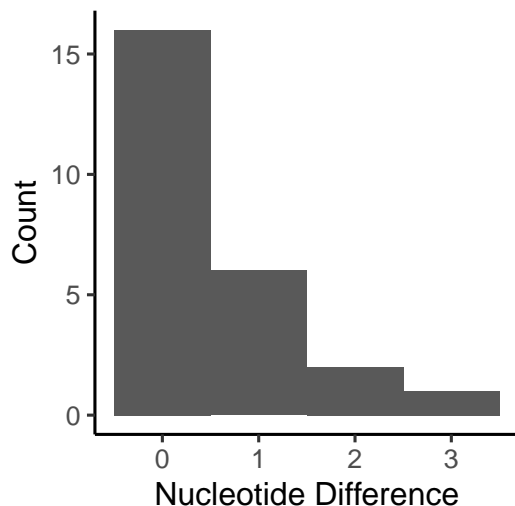
### IGKV1E-12\*01

89 sequences assigned  
70 (78.7%) exact matches, in which:  
47 unique CDR3  
5 unique J



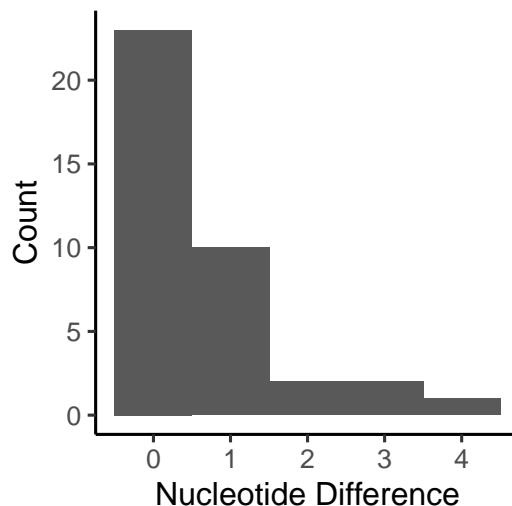
### IGKV1E-12\*02

25 sequences assigned  
16 (64%) exact matches, in which:  
12 unique CDR3  
5 unique J



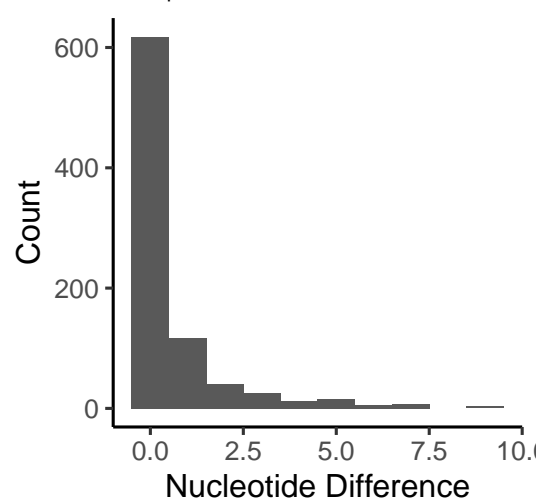
### IGKV6E-21\*01

38 sequences assigned  
23 (60.5%) exact matches, in which:  
21 unique CDR3  
4 unique J



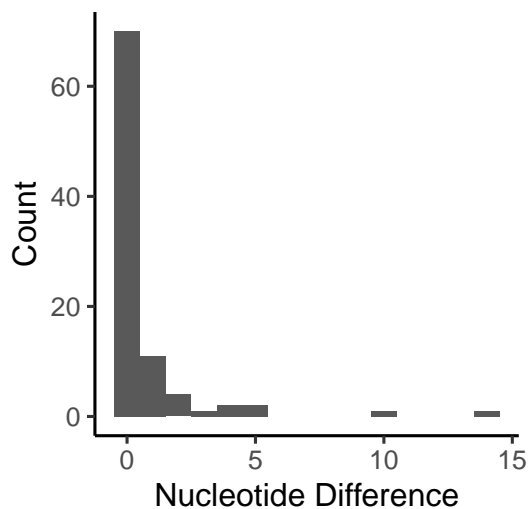
### IGKV1E-33\*01

844 sequences assigned  
618 (73.2%) exact matches, in which:  
487 unique CDR3  
5 unique J



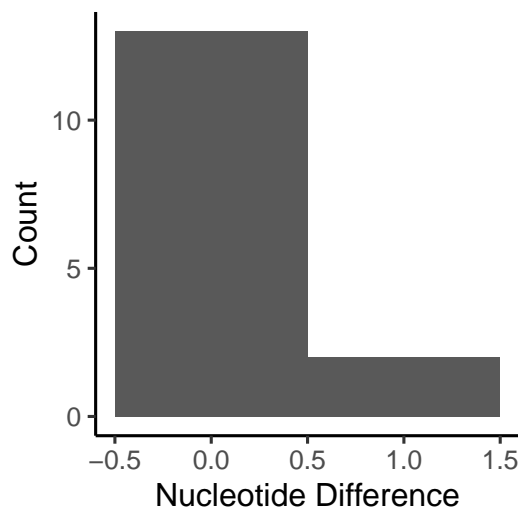
### IGKV1E-12\*03

92 sequences assigned  
70 (76.1%) exact matches, in which:  
56 unique CDR3  
5 unique J



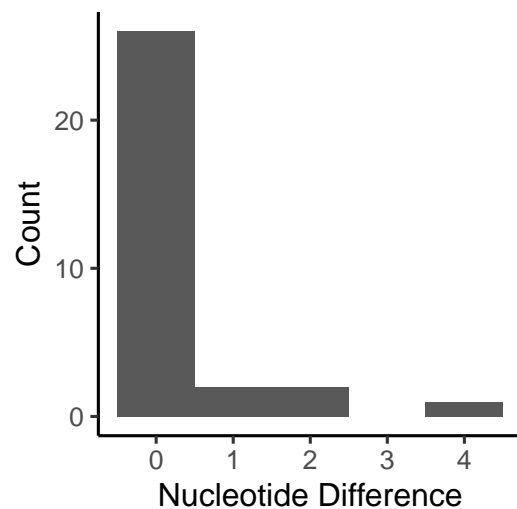
### IGKV6E-21\*03

15 sequences assigned  
13 (86.7%) exact matches, in which:  
12 unique CDR3  
4 unique J



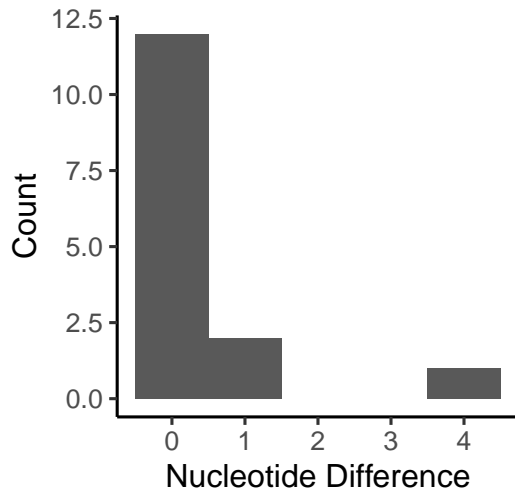
### IGKV1E-37\*01

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



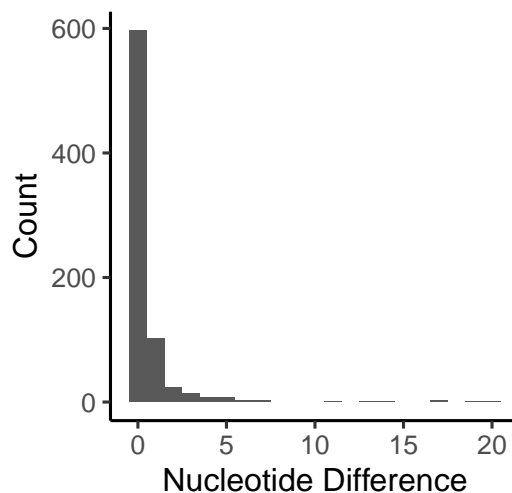
### IGKV1E-13\*03

15 sequences assigned  
12 (80%) exact matches, in which:  
12 unique CDR3  
4 unique J



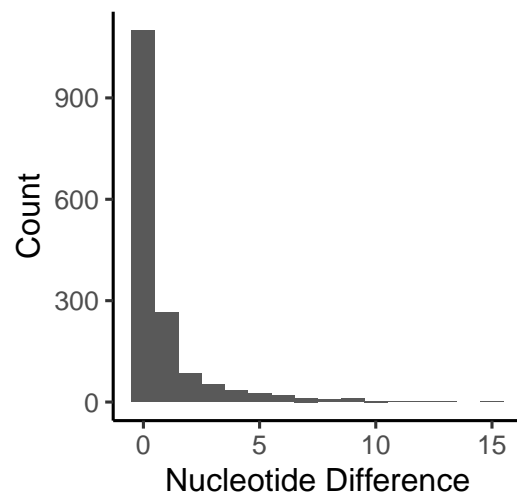
### IGKV2E-28\*01

770 sequences assigned  
597 (77.5%) exact matches, in which:  
451 unique CDR3  
5 unique J



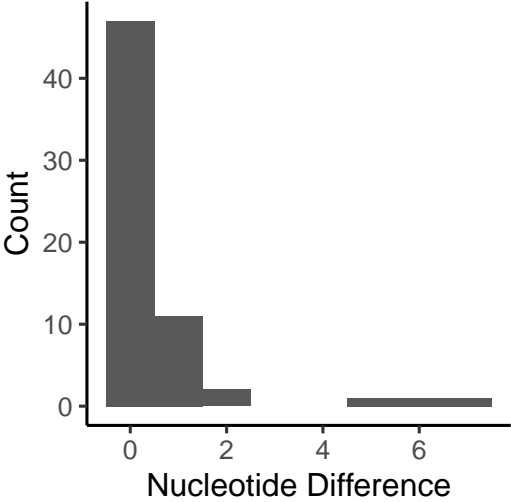
### IGKV1E-39\*01

1634 sequences assigned  
1100 (67.3%) exact matches, in which:  
804 unique CDR3  
5 unique J



# IGKV2E-40\*01

63 sequences assigned  
47 (74.6%) exact matches, in which:  
40 unique CDR3  
5 unique J





Warning – no inferred sequences found.