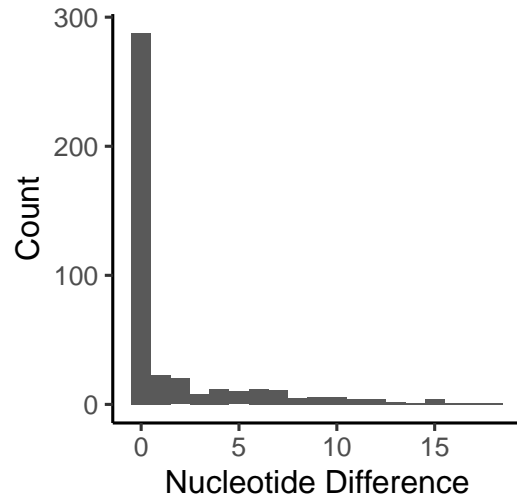


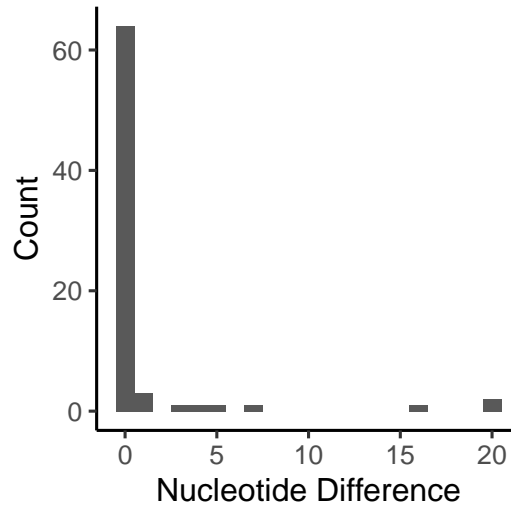
### IGKV1-5\*03

420 sequences assigned  
288 (68.6%) exact matches, in which:  
268 unique CDR3  
5 unique J



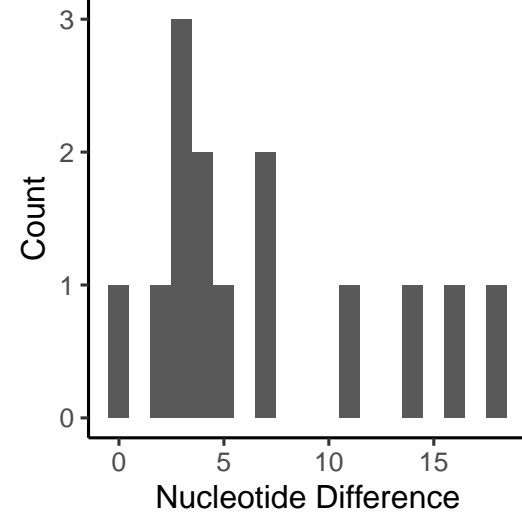
### IGKV1-8\*01

75 sequences assigned  
64 (85.3%) exact matches, in which:  
59 unique CDR3  
5 unique J



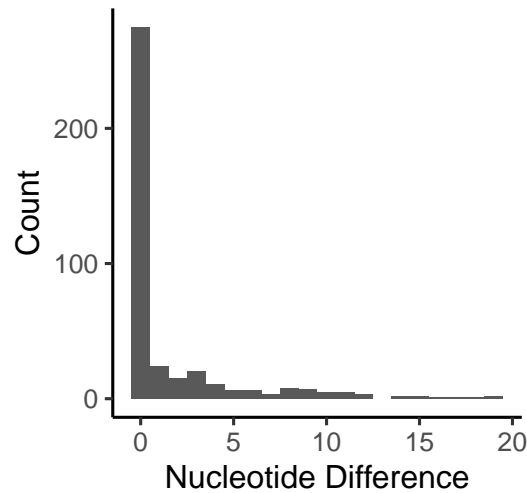
### IGKV1-16\*01

15 sequences assigned  
1 (6.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



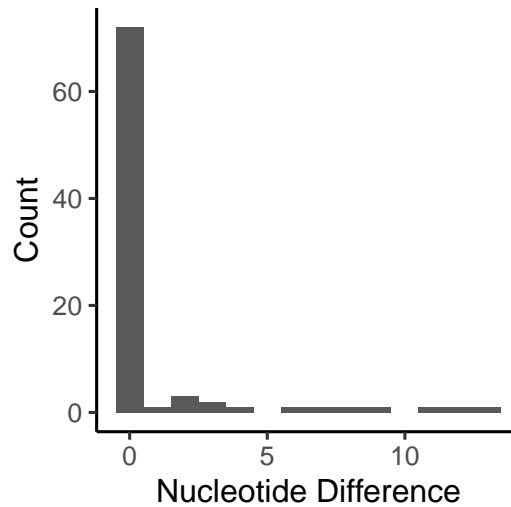
### IGKV1-5\*03\_G171A

400 sequences assigned  
275 (68.8%) exact matches, in which:  
252 unique CDR3  
5 unique J



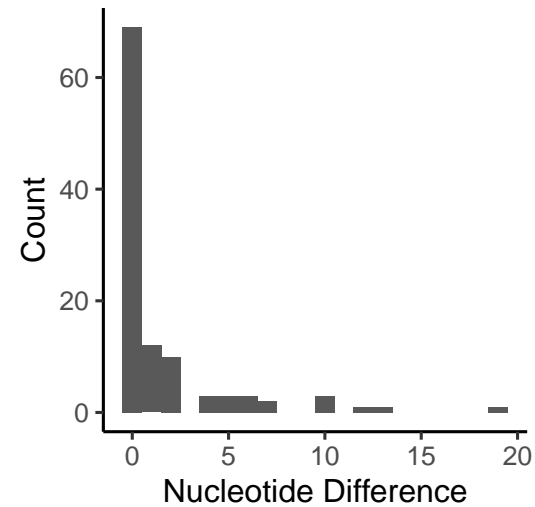
### IGKV1-8\*01\_G12A\_T31C

86 sequences assigned  
72 (83.7%) exact matches, in which:  
67 unique CDR3  
5 unique J



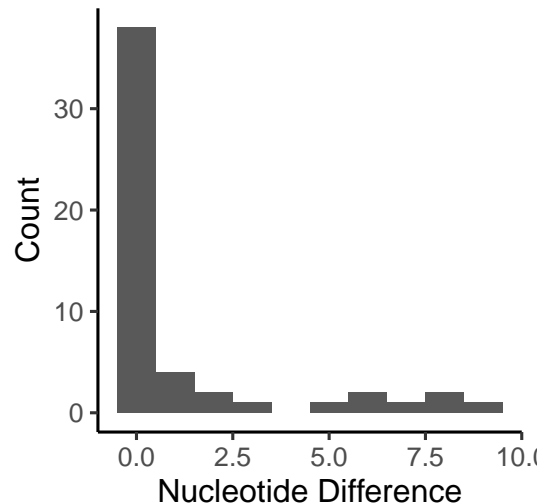
### IGKV1-16\*02

108 sequences assigned  
69 (63.9%) exact matches, in which:  
56 unique CDR3  
5 unique J



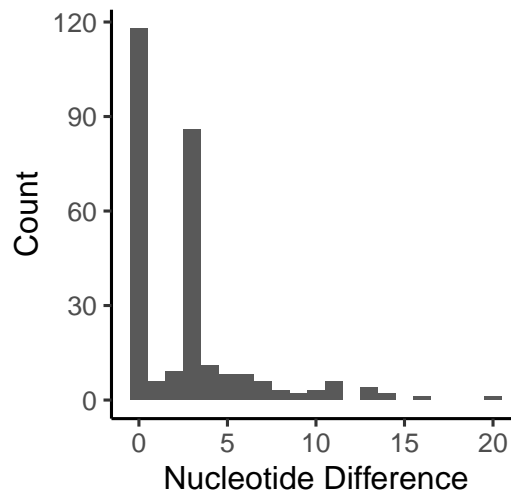
### IGKV1-6\*01

52 sequences assigned  
38 (73.1%) exact matches, in which:  
29 unique CDR3  
4 unique J



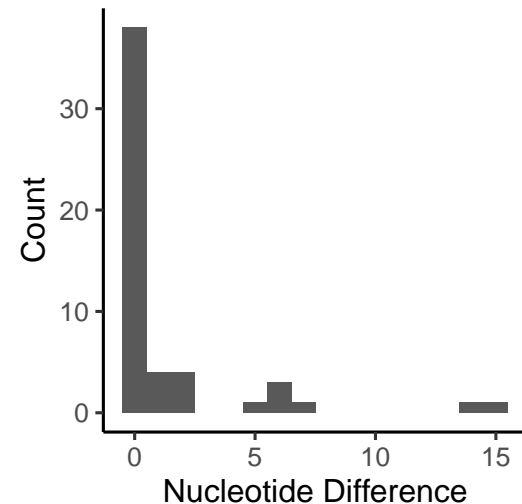
### IGKV1-9\*01

280 sequences assigned  
118 (42.1%) exact matches, in which:  
101 unique CDR3  
5 unique J



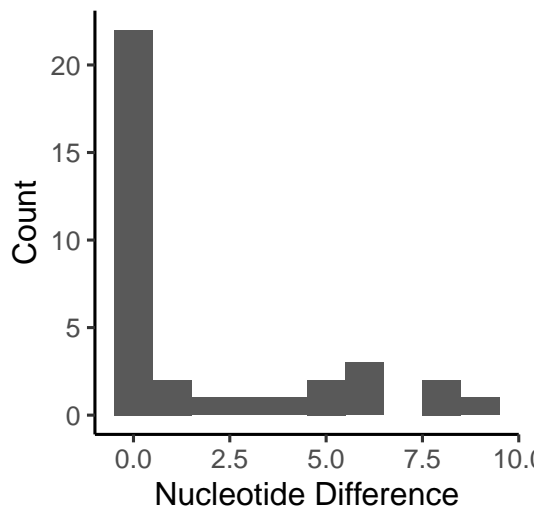
### IGKV1-17\*01

53 sequences assigned  
38 (71.7%) exact matches, in which:  
34 unique CDR3  
5 unique J



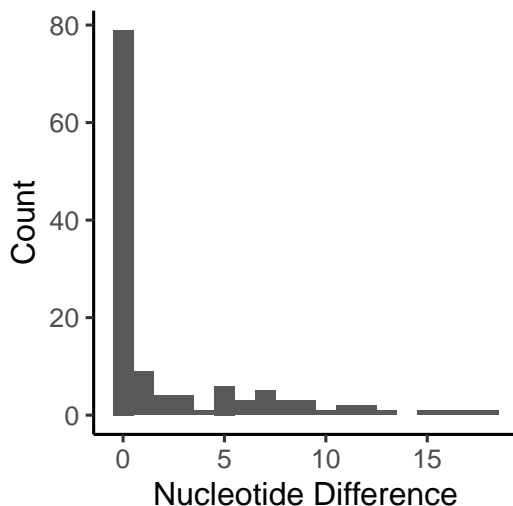
### IGKV1-17\*03

35 sequences assigned  
22 (62.9%) exact matches, in which:  
19 unique CDR3  
5 unique J



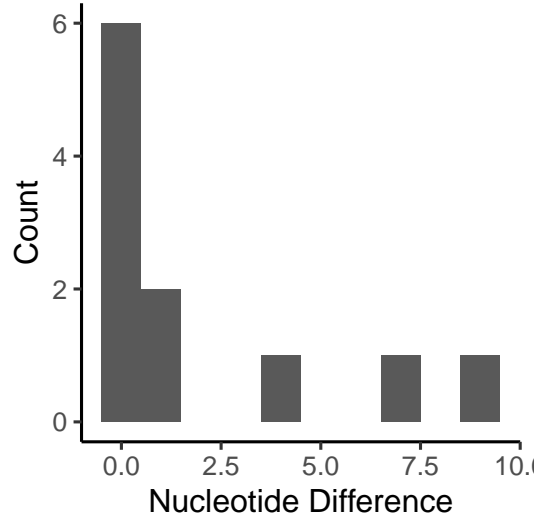
### IGKV1-NL1\*01

129 sequences assigned  
79 (61.2%) exact matches, in which:  
69 unique CDR3  
5 unique J



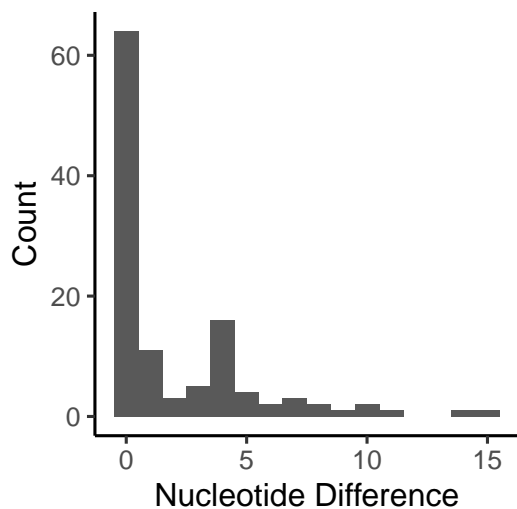
### IGKV2-24\*01

11 sequences assigned  
6 (54.5%) exact matches, in which:  
6 unique CDR3  
3 unique J



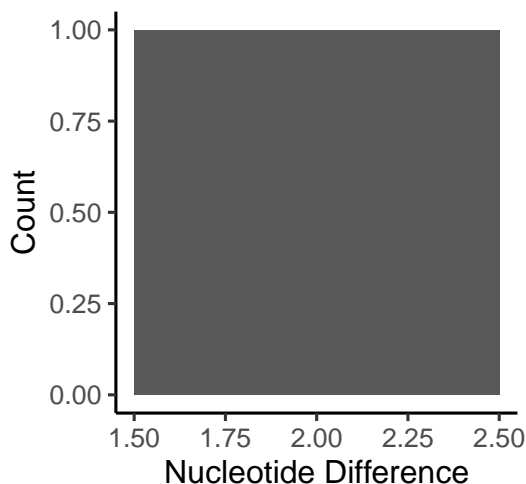
### IGKV1-27\*01

117 sequences assigned  
64 (54.7%) exact matches, in which:  
48 unique CDR3  
4 unique J



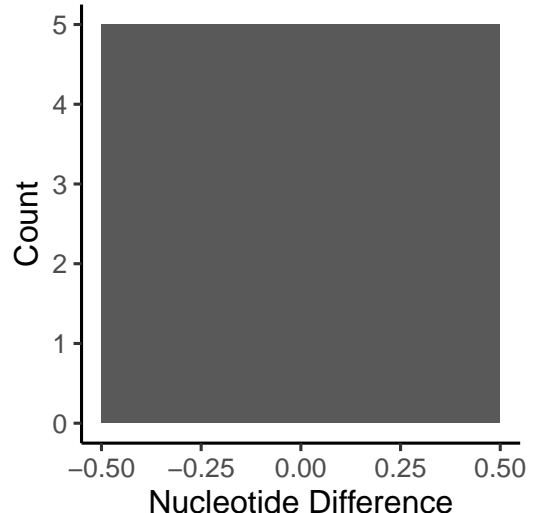
### IGKV2/OR22-4\*01

1 sequences assigned  
No exact matches.



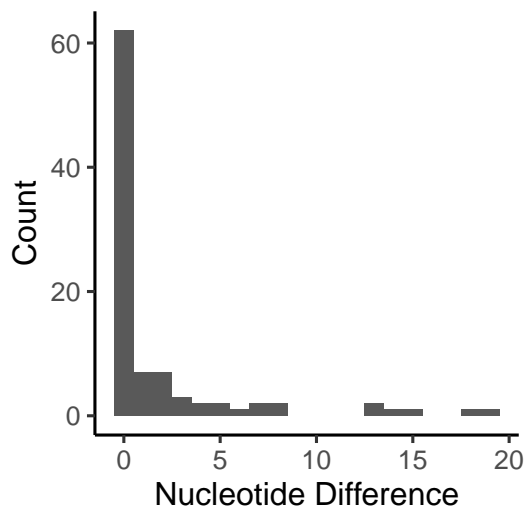
### IGKV2-24\*01\_T314C

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



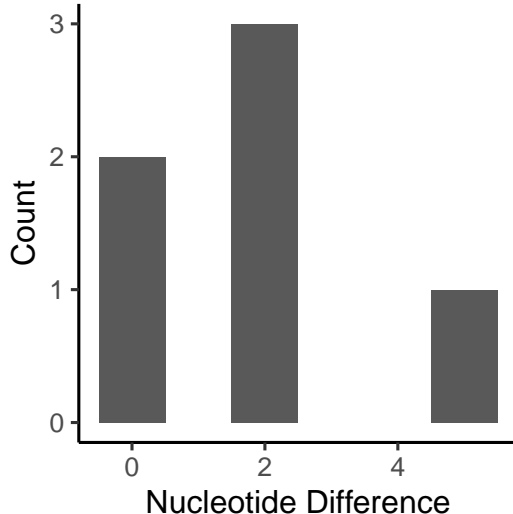
### IGKV1-27\*01\_T231C

94 sequences assigned  
62 (66%) exact matches, in which:  
55 unique CDR3  
5 unique J



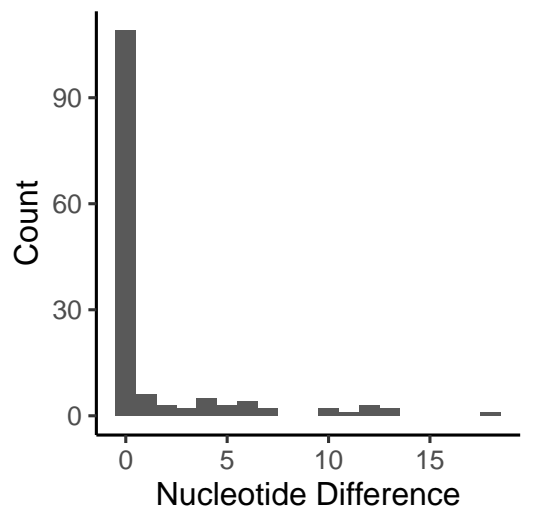
### IGKV2-18\*01

6 sequences assigned  
2 (33.3%) exact matches, in which:  
2 unique CDR3  
2 unique J



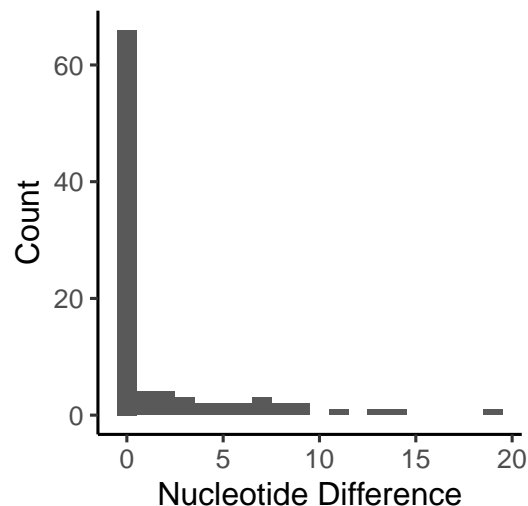
### IGKV2-29\*02

145 sequences assigned  
109 (75.2%) exact matches, in which:  
95 unique CDR3  
5 unique J



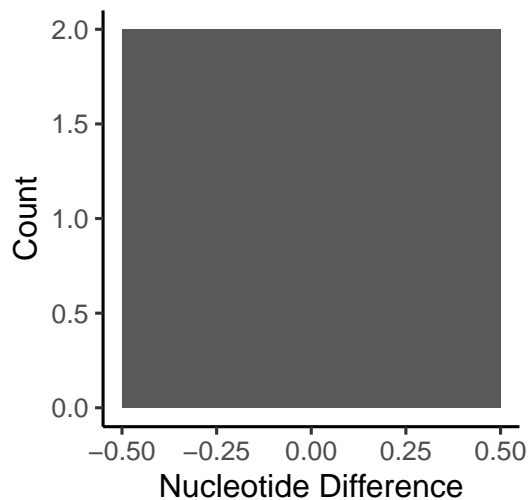
### IGKV2–30\*01

94 sequences assigned  
66 (70.2%) exact matches, in which:  
63 unique CDR3  
5 unique J



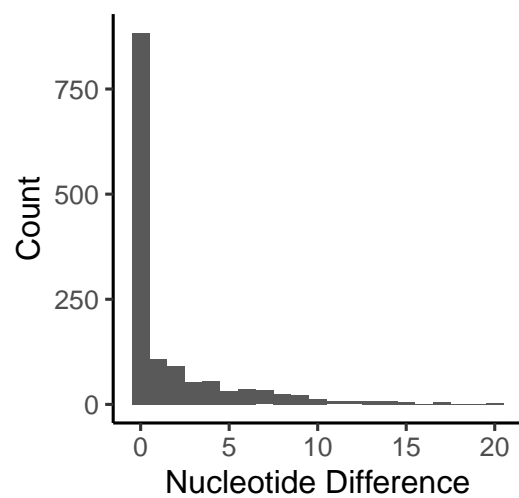
### IGKV3/OR2–268\*01

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



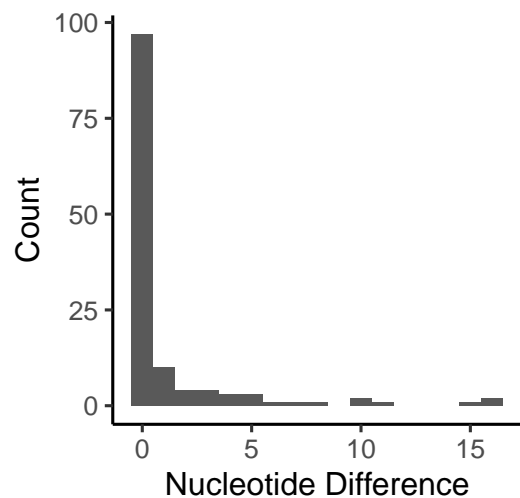
### IGKV3–15\*01

1408 sequences assigned  
884 (62.8%) exact matches, in which:  
698 unique CDR3  
5 unique J



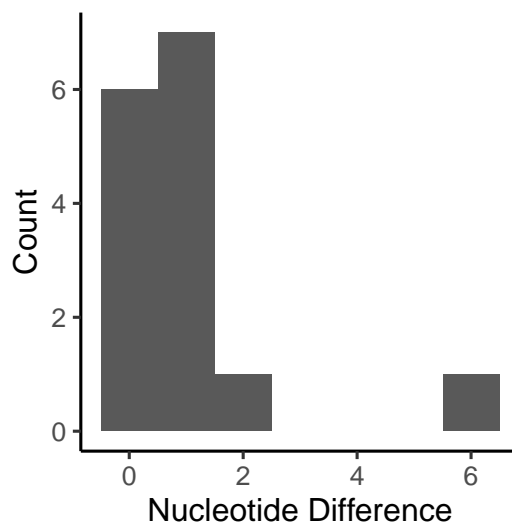
### IGKV2–30\*02

132 sequences assigned  
97 (73.5%) exact matches, in which:  
90 unique CDR3  
5 unique J



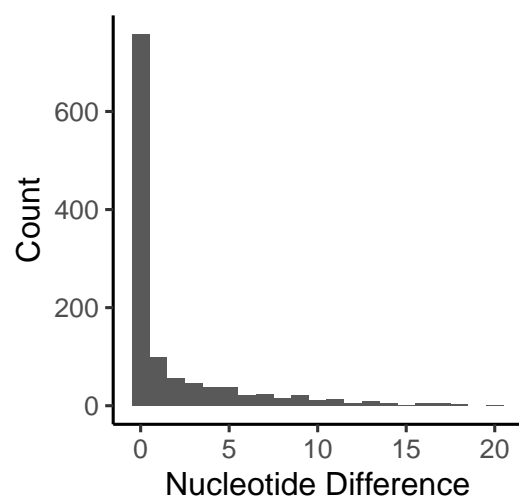
### IGKV3–7\*04

15 sequences assigned  
6 (40%) exact matches, in which:  
6 unique CDR3  
3 unique J



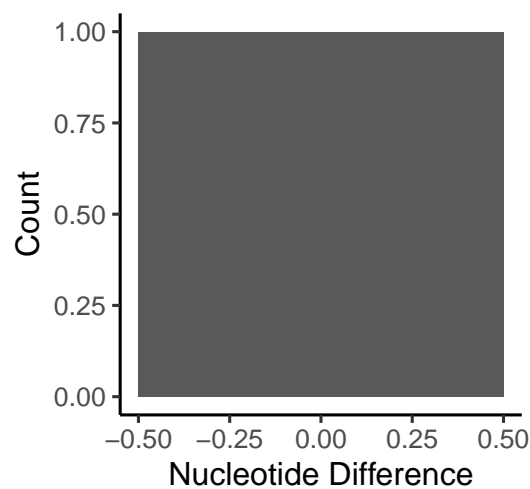
### IGKV3–20\*01

1188 sequences assigned  
758 (63.8%) exact matches, in which:  
619 unique CDR3  
5 unique J



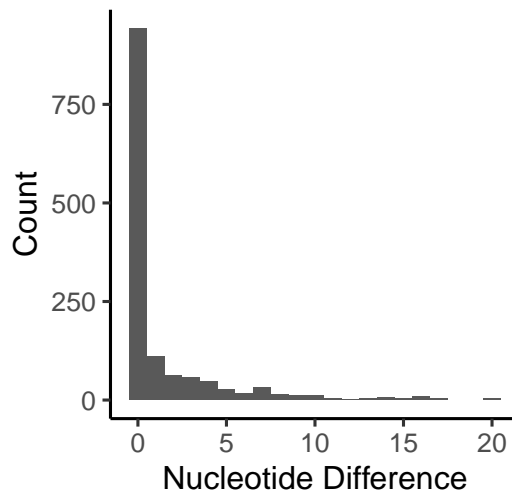
### IGKV1/OR2–108\*01

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



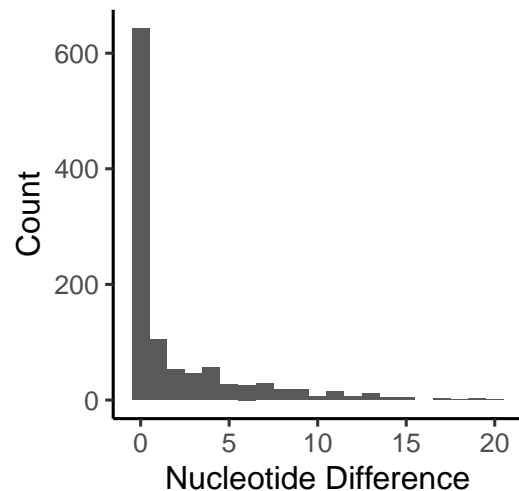
### IGKV3–11\*01

1373 sequences assigned  
943 (68.7%) exact matches, in which:  
727 unique CDR3  
5 unique J



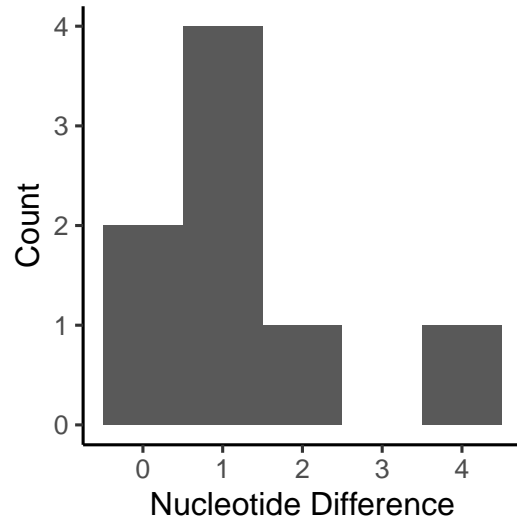
### IGKV4–1\*01

1084 sequences assigned  
643 (59.3%) exact matches, in which:  
446 unique CDR3  
5 unique J



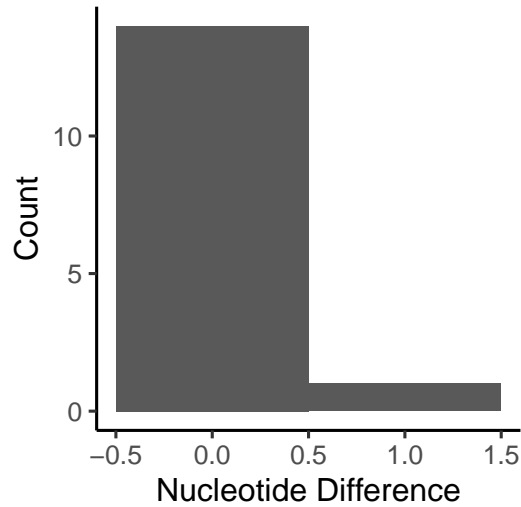
### IGKV5–2\*01

8 sequences assigned  
2 (25%) exact matches, in which:  
2 unique CDR3  
1 unique J



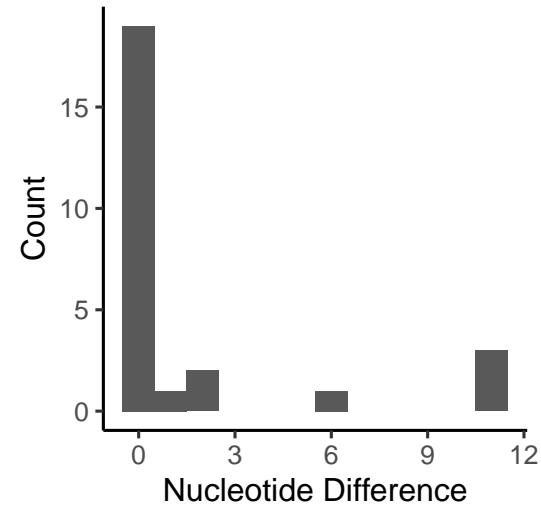
### IGKV1D–8\*03

15 sequences assigned  
14 (93.3%) exact matches, in which:  
13 unique CDR3  
4 unique J



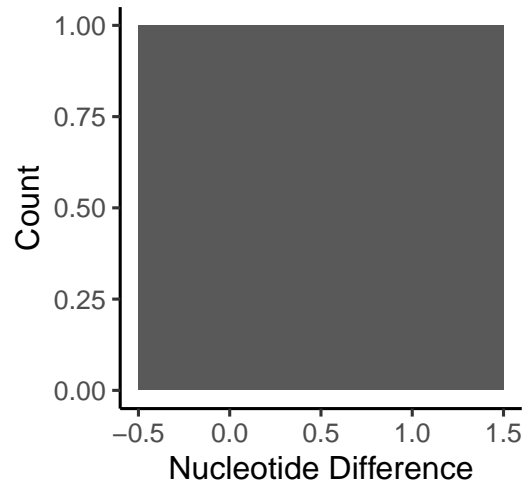
### IGKV3D–15\*01\_C197T

26 sequences assigned  
19 (73.1%) exact matches, in which:  
17 unique CDR3  
4 unique J



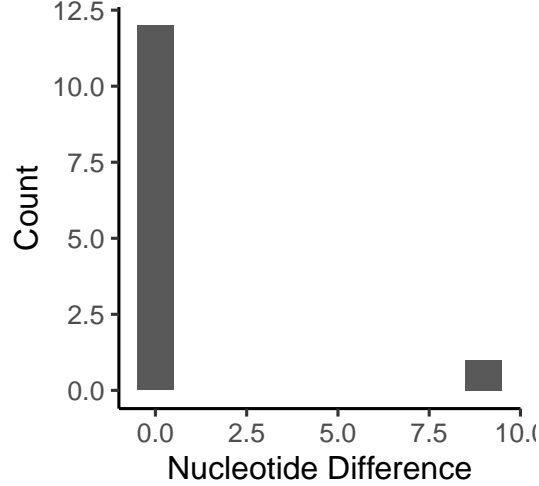
### IGKV3D–7\*01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



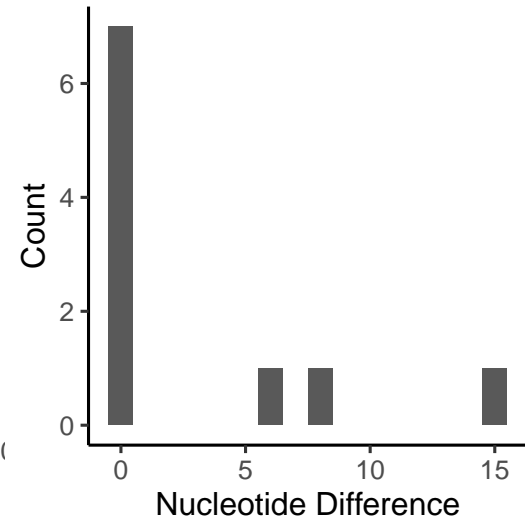
### IGKV3D–11\*02

13 sequences assigned  
12 (92.3%) exact matches, in which:  
11 unique CDR3  
4 unique J



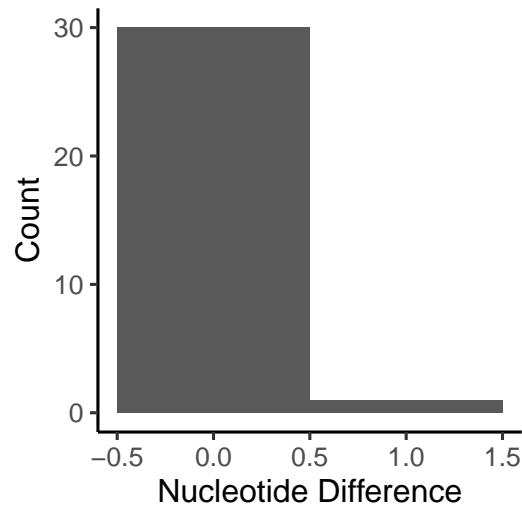
### IGKV1D–16\*01

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



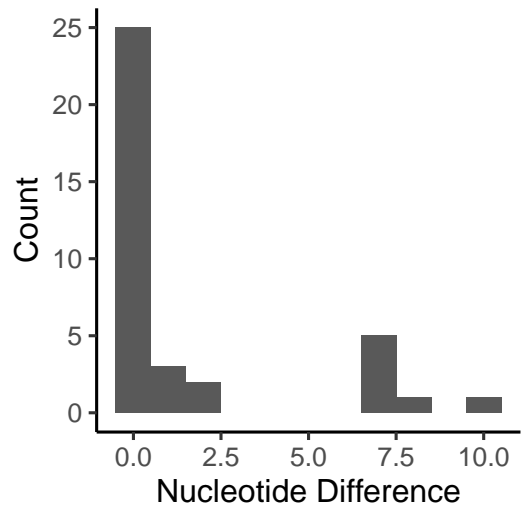
### IGKV1D–8\*01

31 sequences assigned  
30 (96.8%) exact matches, in which:  
27 unique CDR3  
5 unique J



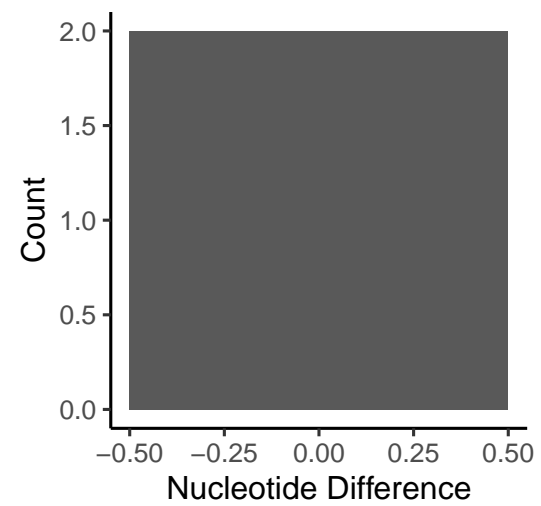
### IGKV3D–15\*01

37 sequences assigned  
25 (67.6%) exact matches, in which:  
24 unique CDR3  
5 unique J



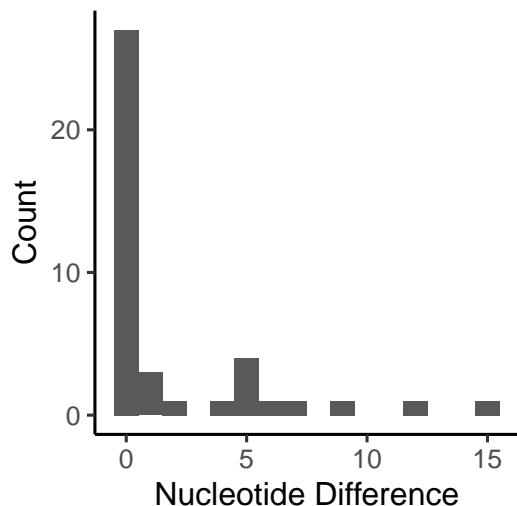
### IGKV1D–16\*02

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



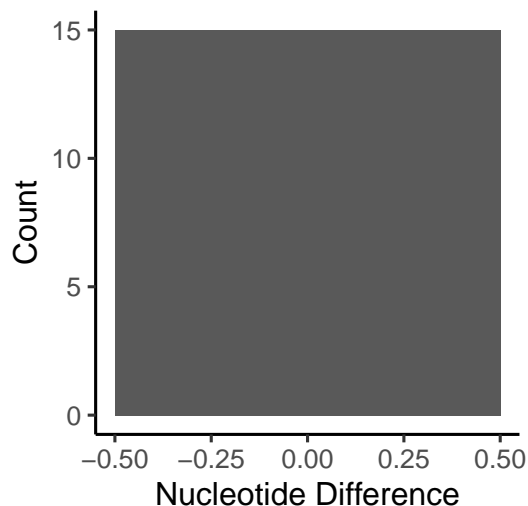
### IGKV3D-20\*01

41 sequences assigned  
27 (65.9%) exact matches, in which:  
23 unique CDR3  
5 unique J



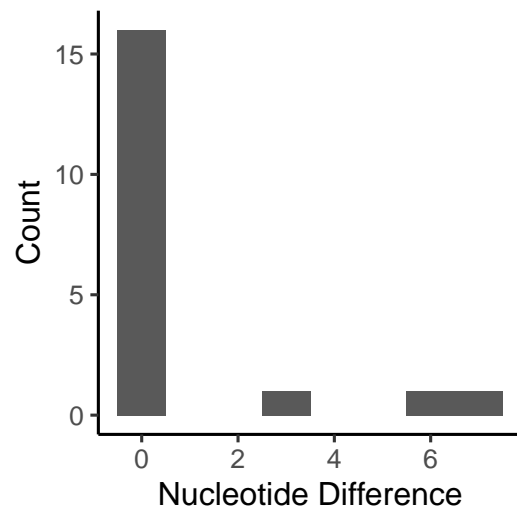
### IGKV2D-30\*01

15 sequences assigned  
15 (100%) exact matches, in which:  
15 unique CDR3  
4 unique J



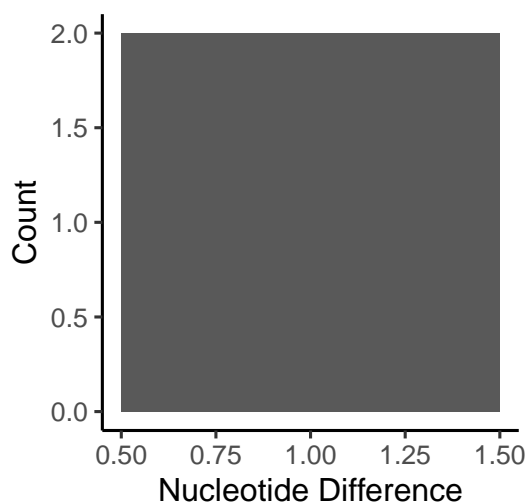
### IGKV1E-12\*02

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



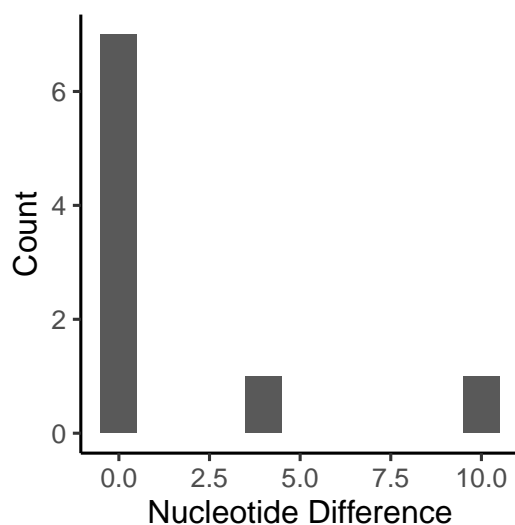
### IGKV2D-26\*03

2 sequences assigned  
No exact matches.



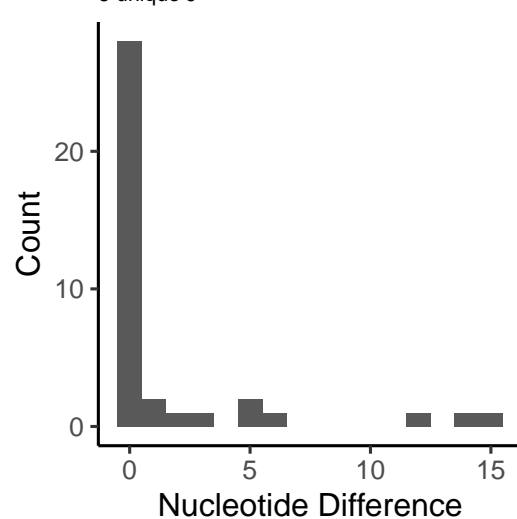
### IGKV1D-43\*01

9 sequences assigned  
7 (77.8%) exact matches, in which:  
7 unique CDR3  
5 unique J



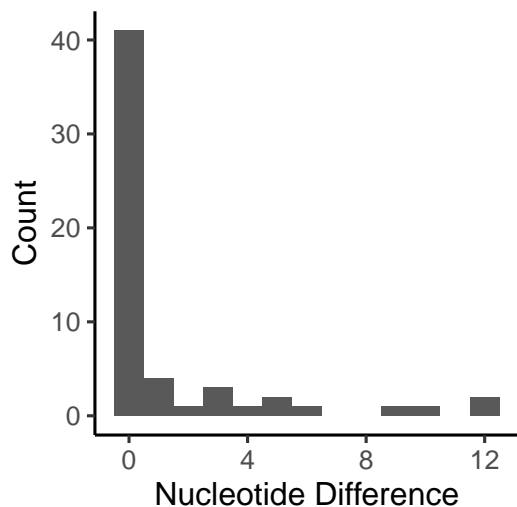
### IGKV1E-12\*03

38 sequences assigned  
28 (73.7%) exact matches, in which:  
21 unique CDR3  
5 unique J



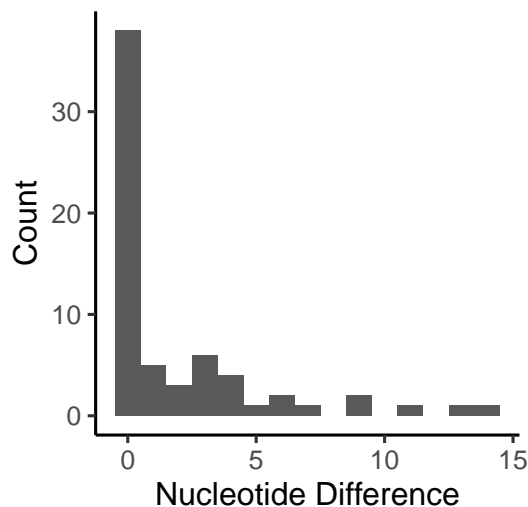
### IGKV2D-29\*02

57 sequences assigned  
41 (71.9%) exact matches, in which:  
38 unique CDR3  
5 unique J



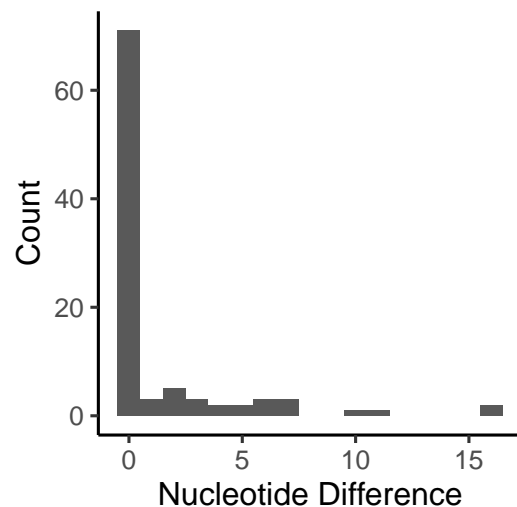
### IGKV1E-12\*01

65 sequences assigned  
38 (58.5%) exact matches, in which:  
27 unique CDR3  
5 unique J



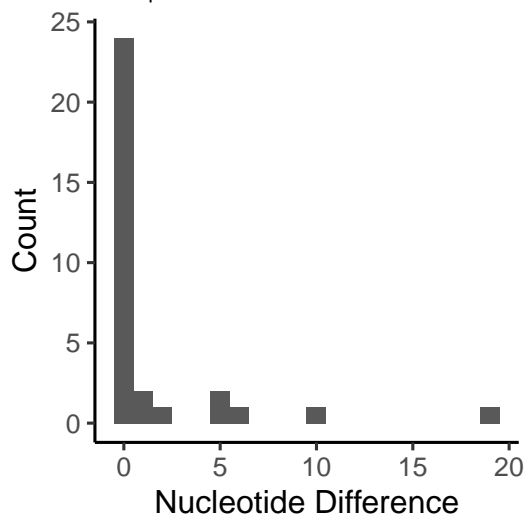
### IGKV1E-13\*02

97 sequences assigned  
71 (73.2%) exact matches, in which:  
61 unique CDR3  
5 unique J



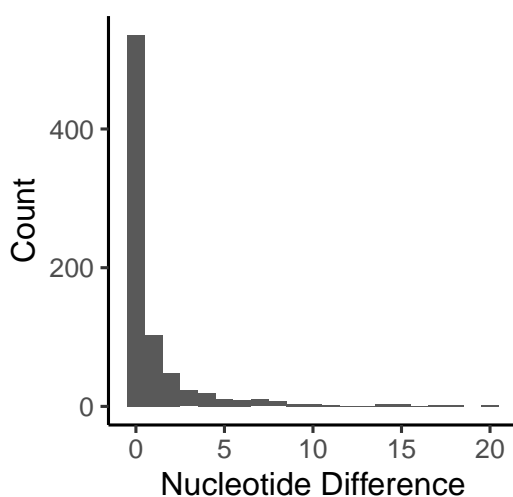
### IGKV1E-13\*03

32 sequences assigned  
24 (75%) exact matches, in which:  
21 unique CDR3  
5 unique J



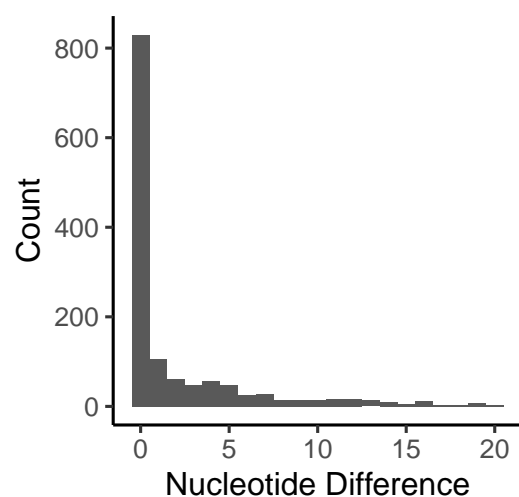
### IGKV2E-28\*01

796 sequences assigned  
536 (67.3%) exact matches, in which:  
430 unique CDR3  
5 unique J



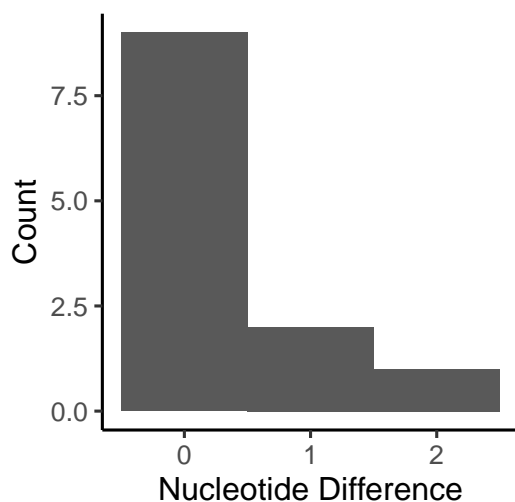
### IGKV1E-39\*01

1355 sequences assigned  
830 (61.3%) exact matches, in which:  
592 unique CDR3  
5 unique J



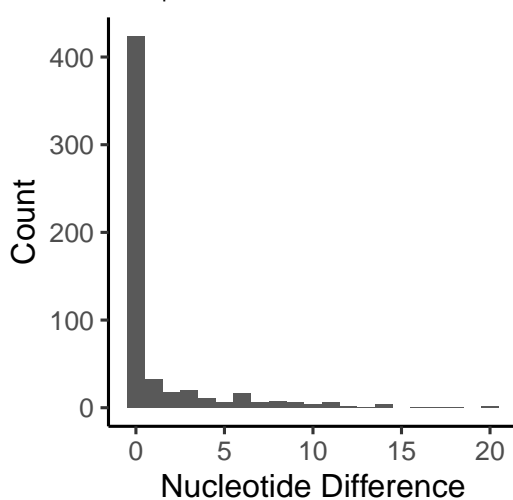
### IGKV6E-21\*01

12 sequences assigned  
9 (75%) exact matches, in which:  
9 unique CDR3  
5 unique J



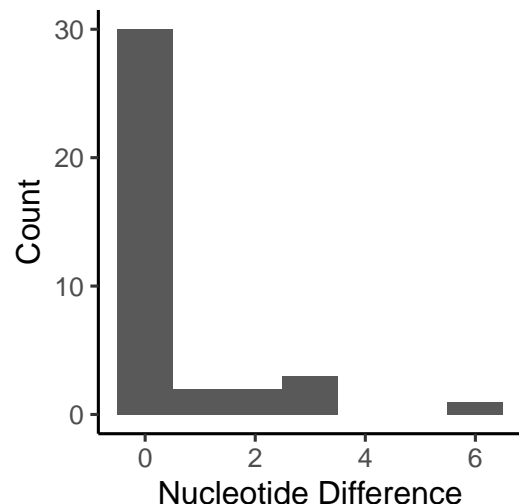
### IGKV1E-33\*01

578 sequences assigned  
424 (73.4%) exact matches, in which:  
294 unique CDR3  
5 unique J



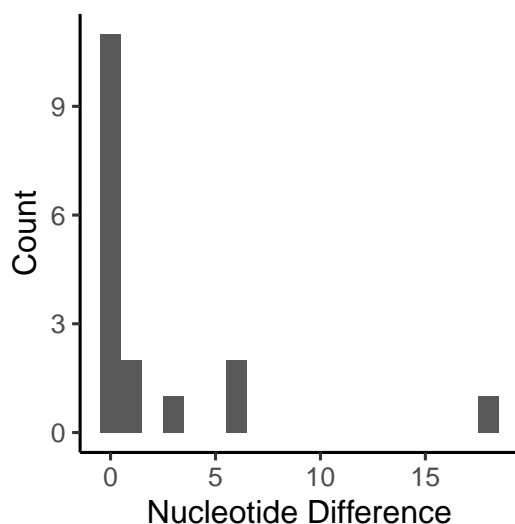
### IGKV2E-40\*01

38 sequences assigned  
30 (78.9%) exact matches, in which:  
25 unique CDR3  
5 unique J



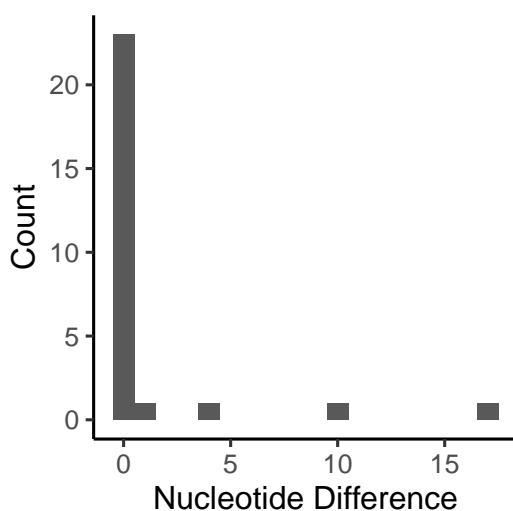
### IGKV6E-21\*02

17 sequences assigned  
11 (64.7%) exact matches, in which:  
11 unique CDR3  
3 unique J



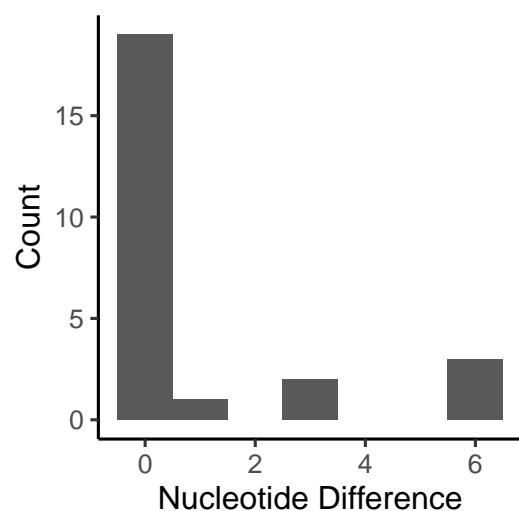
### IGKV1E-37\*01

27 sequences assigned  
23 (85.2%) exact matches, in which:  
23 unique CDR3  
5 unique J



### IGKV2E-40\*01\_C195T

26 sequences assigned  
19 (73.1%) exact matches, in which:  
17 unique CDR3  
5 unique J





Warning – no inferred sequences found.