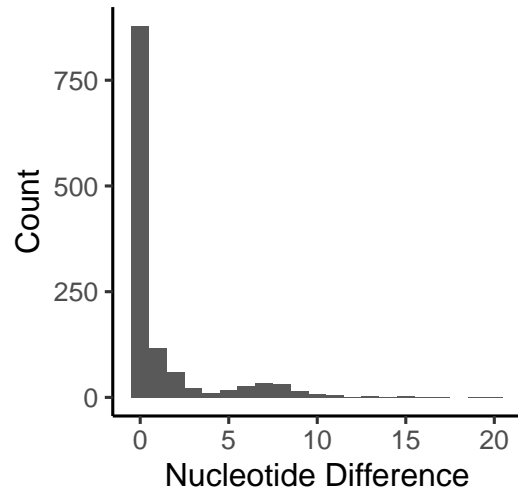


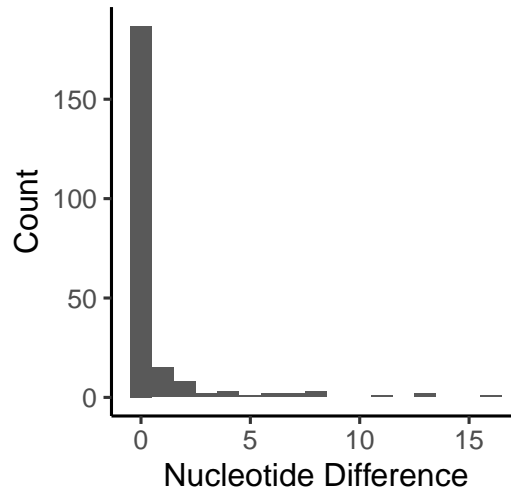
### IGKV1-5\*03

1249 sequences assigned  
879 (70.4%) exact matches, in which:  
766 unique CDR3  
5 unique J



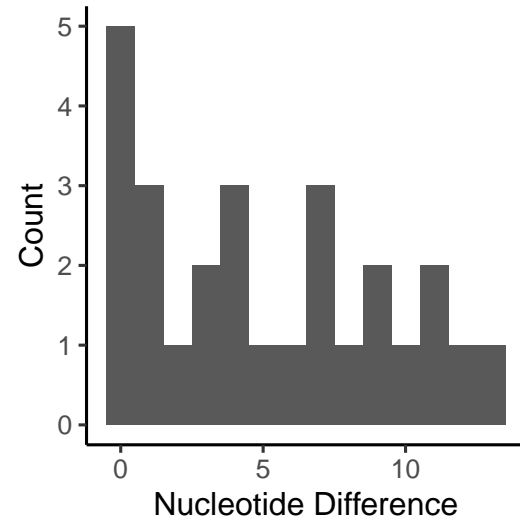
### IGKV1-9\*01

228 sequences assigned  
187 (82%) exact matches, in which:  
167 unique CDR3  
5 unique J



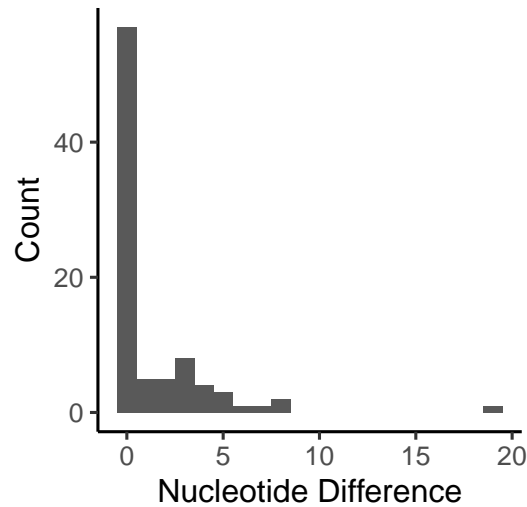
### IGKV1-16\*01\_C312T

27 sequences assigned  
5 (18.5%) exact matches, in which:  
5 unique CDR3  
2 unique J



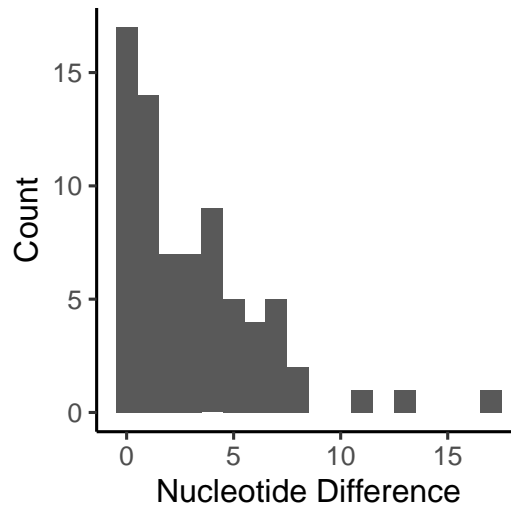
### IGKV1-6\*01

87 sequences assigned  
57 (65.5%) exact matches, in which:  
50 unique CDR3  
5 unique J



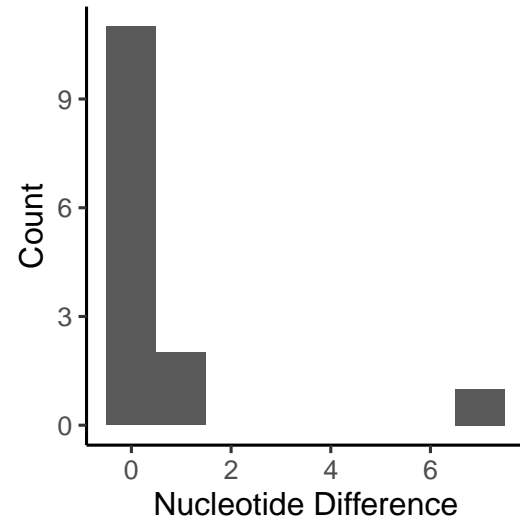
### IGKV1-9\*01\_A270C

73 sequences assigned  
17 (23.3%) exact matches, in which:  
17 unique CDR3  
4 unique J



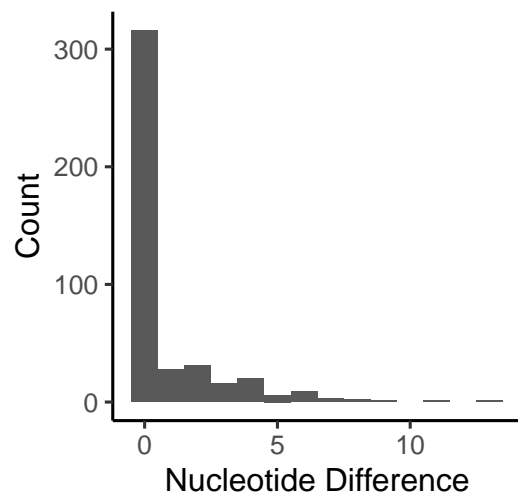
### IGKV1-16\*02\_C312T

14 sequences assigned  
11 (78.6%) exact matches, in which:  
11 unique CDR3  
3 unique J



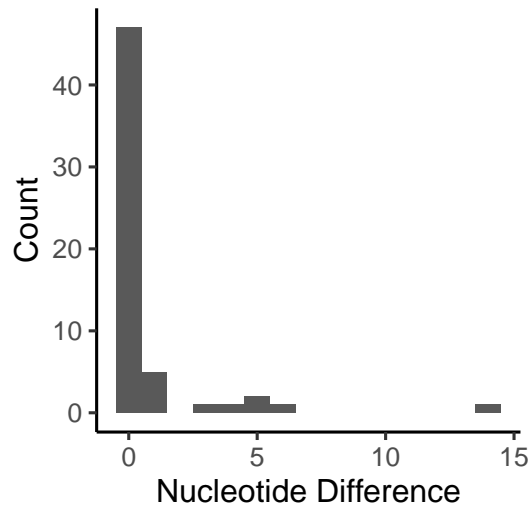
### IGKV1-8\*01

434 sequences assigned  
316 (72.8%) exact matches, in which:  
233 unique CDR3  
5 unique J



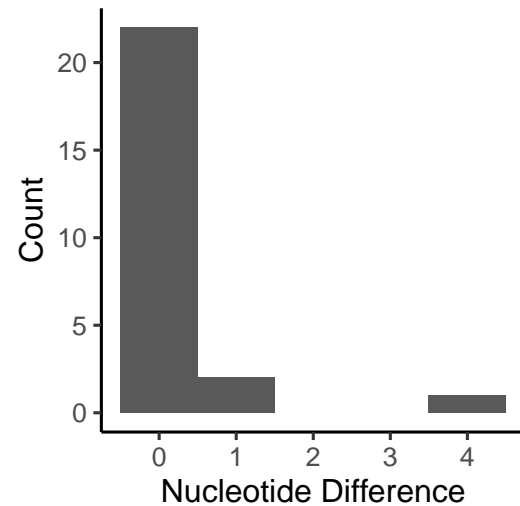
### IGKV1-16\*02

58 sequences assigned  
47 (81%) exact matches, in which:  
41 unique CDR3  
5 unique J



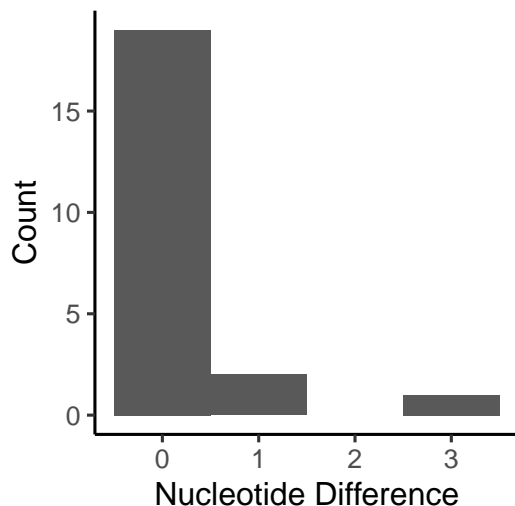
### IGKV1-17\*01

25 sequences assigned  
22 (88%) exact matches, in which:  
21 unique CDR3  
5 unique J



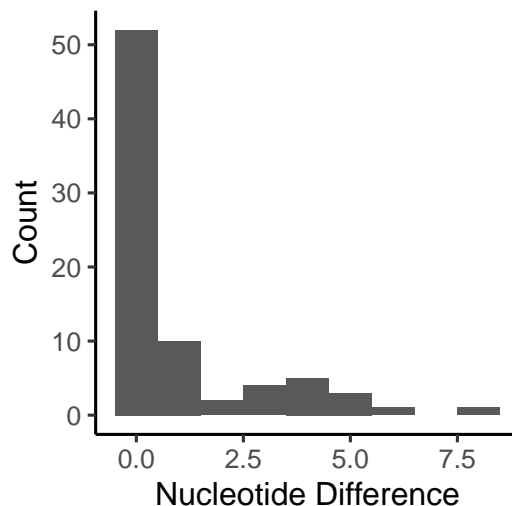
### IGKV1-17\*03

22 sequences assigned  
19 (86.4%) exact matches, in which:  
18 unique CDR3  
4 unique J



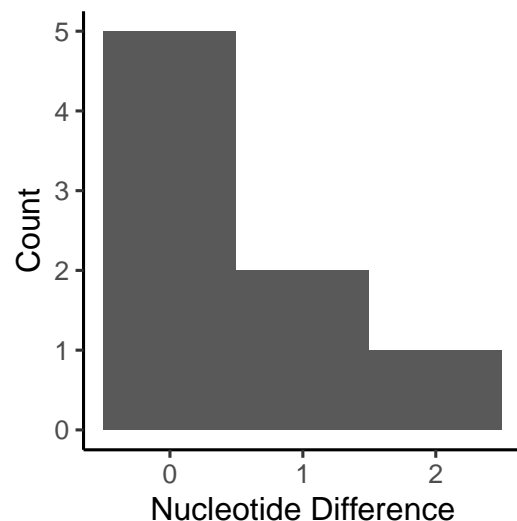
### IGKV1-27\*01\_T231C

79 sequences assigned  
52 (65.8%) exact matches, in which:  
46 unique CDR3  
5 unique J



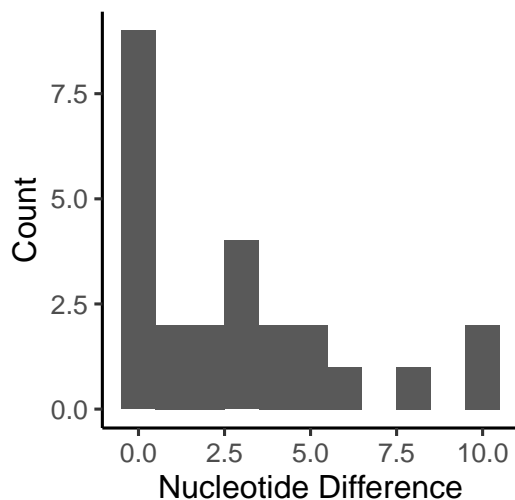
### IGKV2-18\*01

8 sequences assigned  
5 (62.5%) exact matches, in which:  
5 unique CDR3  
3 unique J



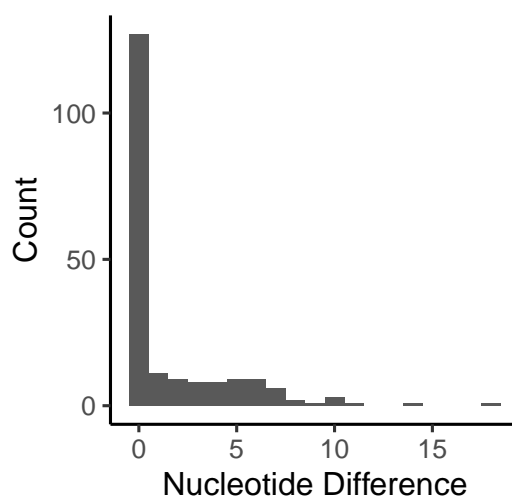
### IGKV1-17\*01\_T314A

25 sequences assigned  
9 (36%) exact matches, in which:  
9 unique CDR3  
4 unique J



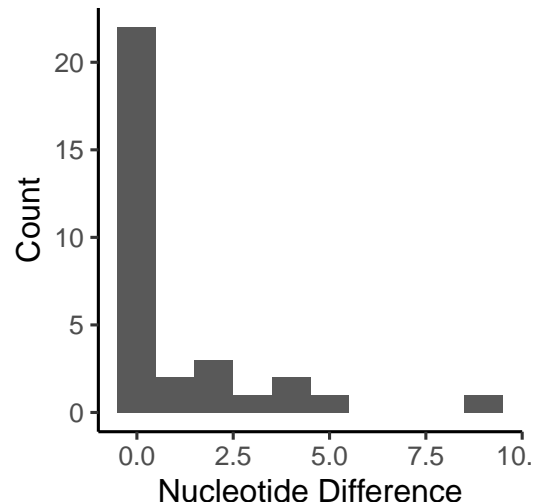
### IGKV1-NL1\*01

203 sequences assigned  
127 (62.6%) exact matches, in which:  
118 unique CDR3  
5 unique J



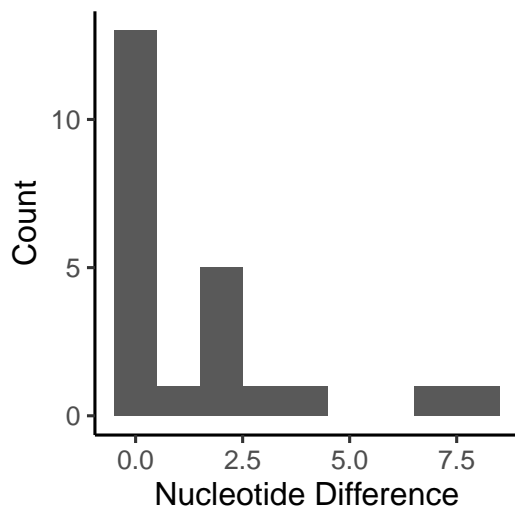
### IGKV2-24\*01

32 sequences assigned  
22 (68.8%) exact matches, in which:  
19 unique CDR3  
5 unique J



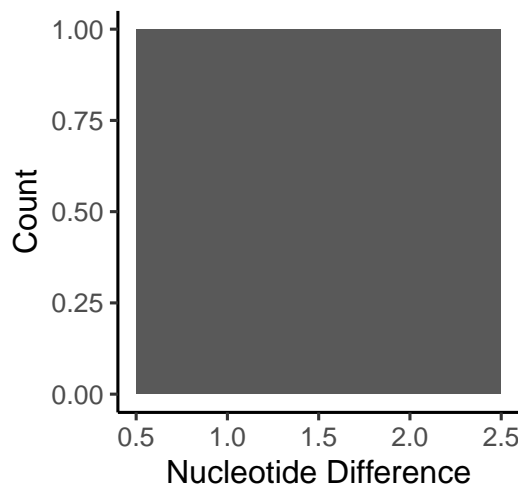
### IGKV1-17\*03\_T314A

23 sequences assigned  
13 (56.5%) exact matches, in which:  
13 unique CDR3  
3 unique J



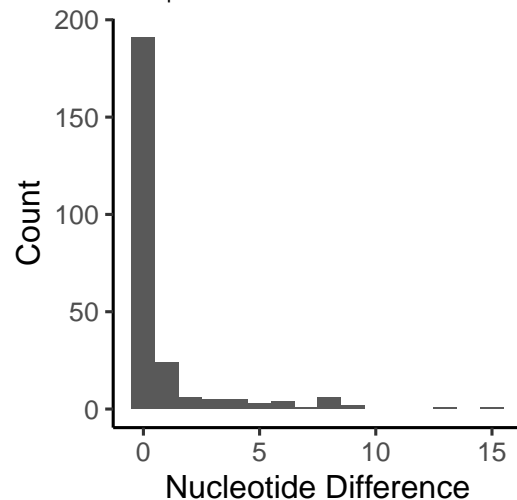
### IGKV2/OR22-4\*01

2 sequences assigned  
No exact matches.



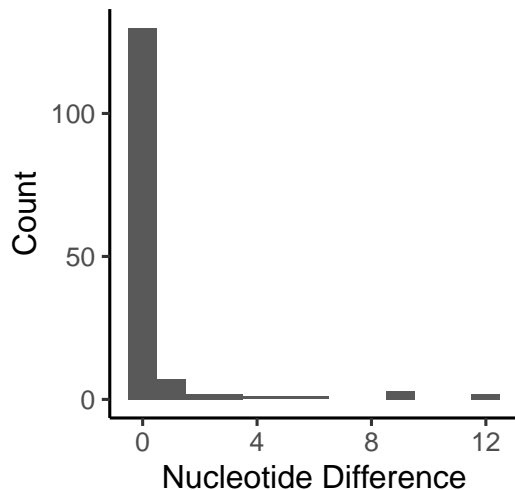
### IGKV2-29\*02

249 sequences assigned  
191 (76.7%) exact matches, in which:  
172 unique CDR3  
5 unique J



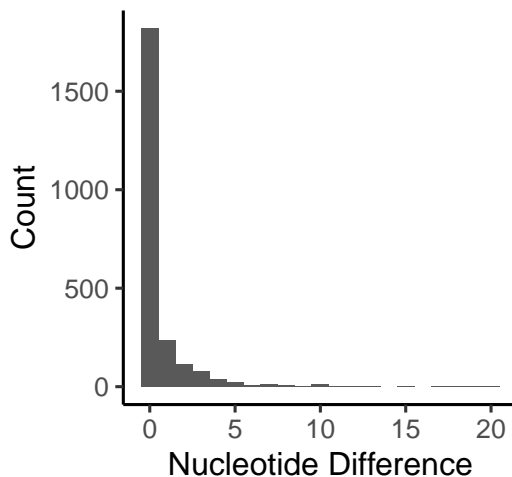
### IGKV2–30\*01

149 sequences assigned  
130 (87.2%) exact matches, in which:  
117 unique CDR3  
5 unique J



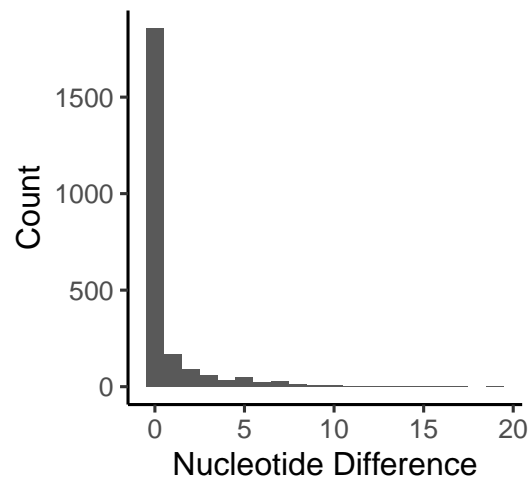
### IGKV3–11\*01

2378 sequences assigned  
1819 (76.5%) exact matches, in which:  
1208 unique CDR3  
5 unique J



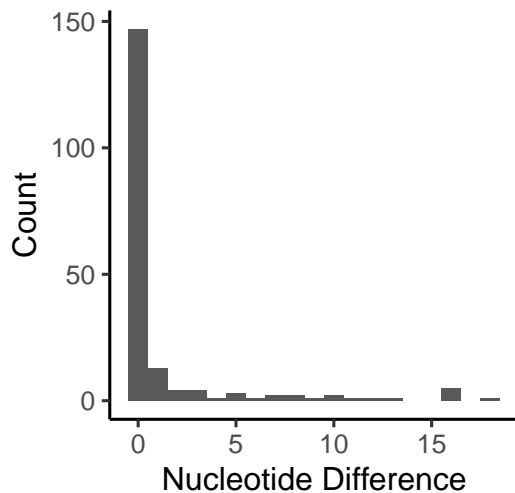
### IGKV4–1\*01

2355 sequences assigned  
1856 (78.8%) exact matches, in which:  
995 unique CDR3  
5 unique J



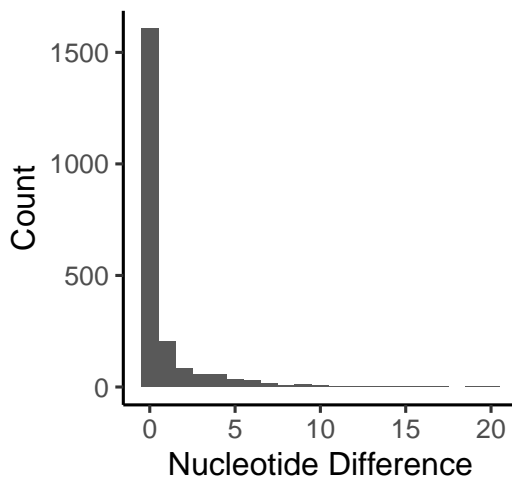
### IGKV2–30\*02

189 sequences assigned  
147 (77.8%) exact matches, in which:  
133 unique CDR3  
5 unique J



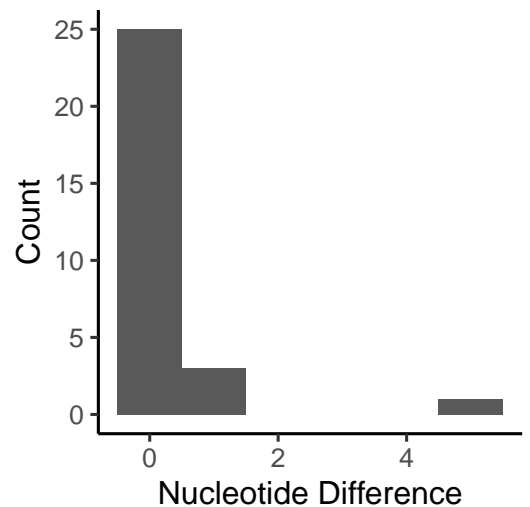
### IGKV3–15\*01

2139 sequences assigned  
1606 (75.1%) exact matches, in which:  
1128 unique CDR3  
5 unique J



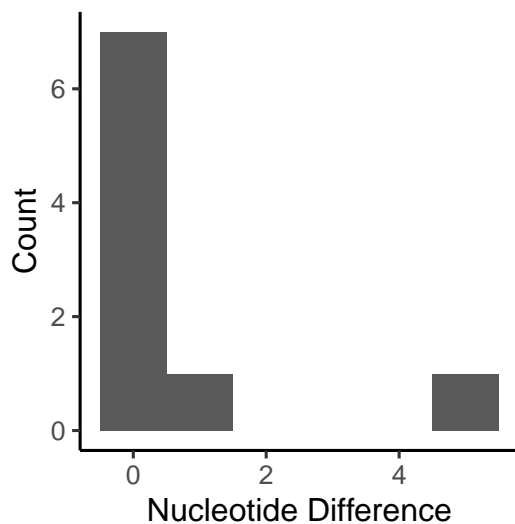
### IGKV5–2\*01

29 sequences assigned  
25 (86.2%) exact matches, in which:  
25 unique CDR3  
4 unique J



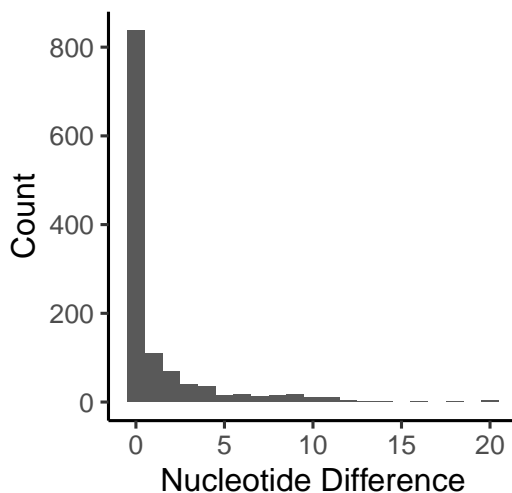
### IGKV3–7\*04

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



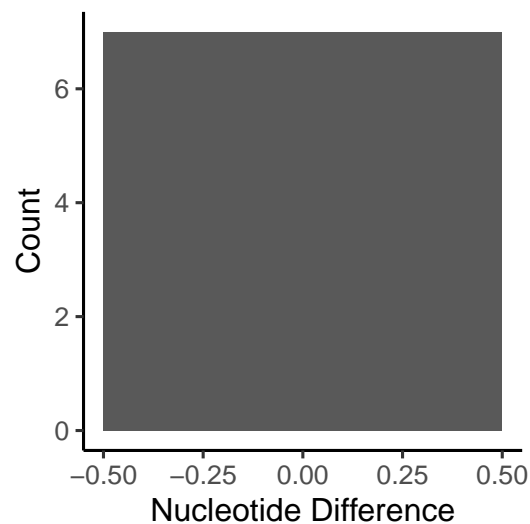
### IGKV3–20\*01

1204 sequences assigned  
838 (69.6%) exact matches, in which:  
662 unique CDR3  
5 unique J



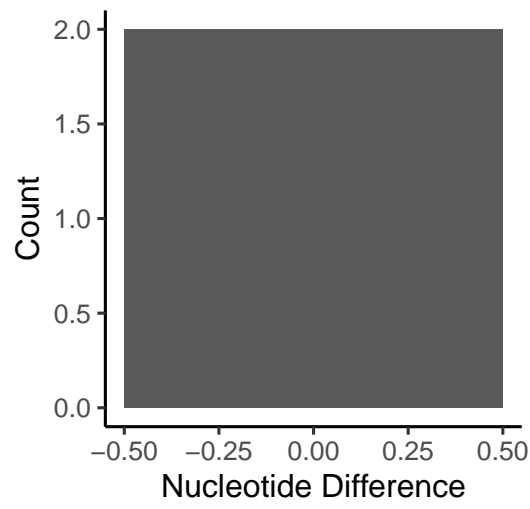
### IGKV7–3\*01

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



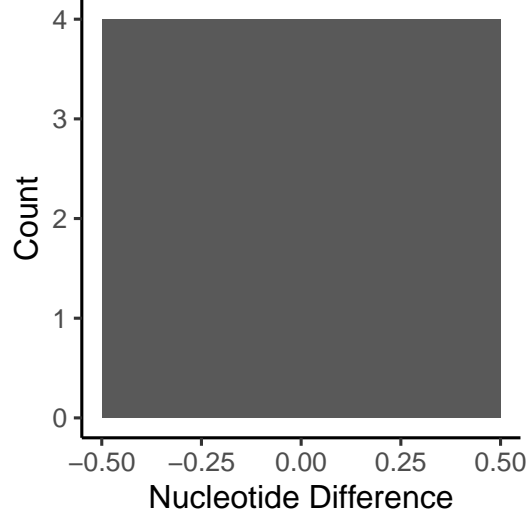
### IGKV3D-7\*01

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



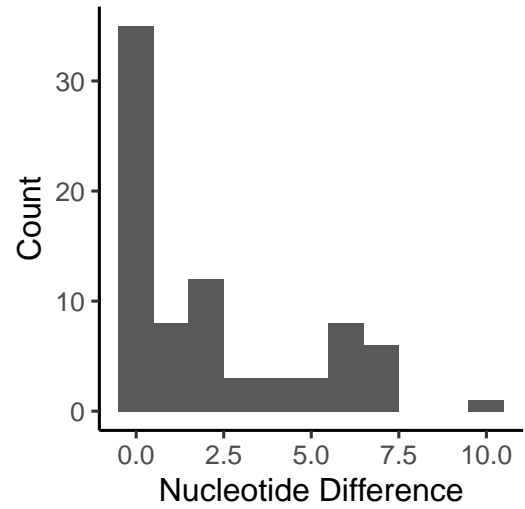
### IGKV3D-11\*02

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



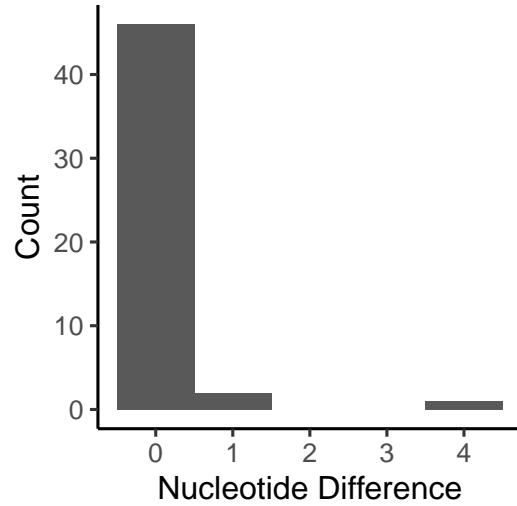
### IGKV3D-15\*01

79 sequences assigned  
35 (44.3%) exact matches, in which:  
34 unique CDR3  
5 unique J



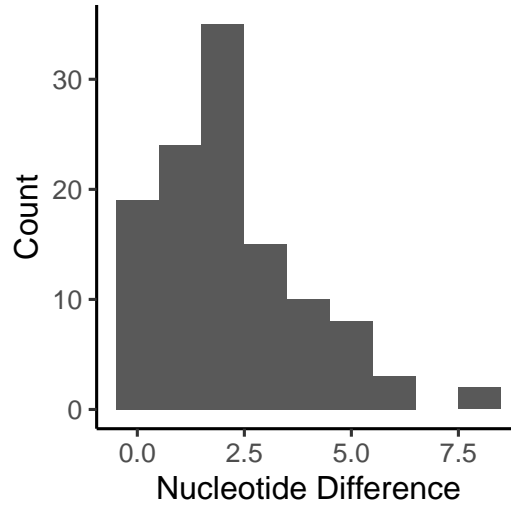
### IGKV1D-8\*01

49 sequences assigned  
46 (93.9%) exact matches, in which:  
40 unique CDR3  
5 unique J



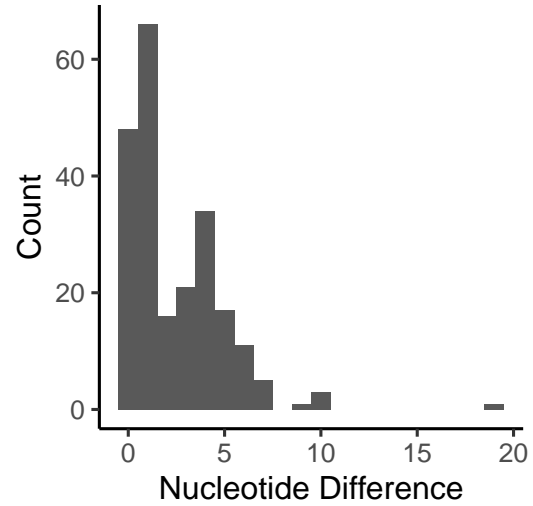
### IGKV3D-11\*02\_A15G\_C2

116 sequences assigned  
19 (16.4%) exact matches, in which:  
18 unique CDR3  
4 unique J



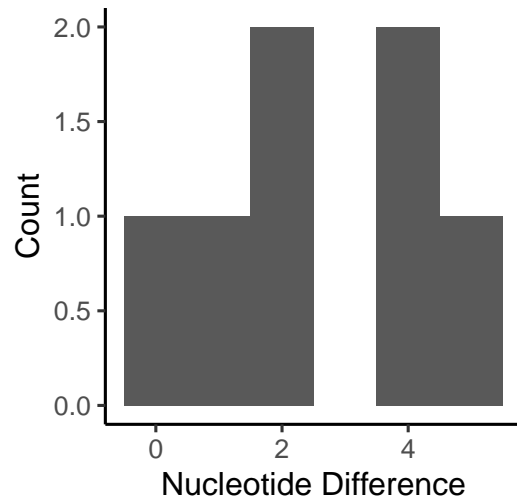
### IGKV3D-15\*01\_G258C\_C

224 sequences assigned  
48 (21.4%) exact matches, in which:  
46 unique CDR3  
4 unique J



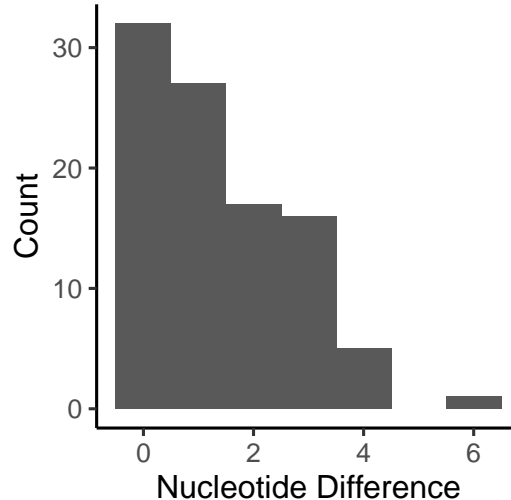
### IGKV1D-8\*03

7 sequences assigned  
1 (14.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



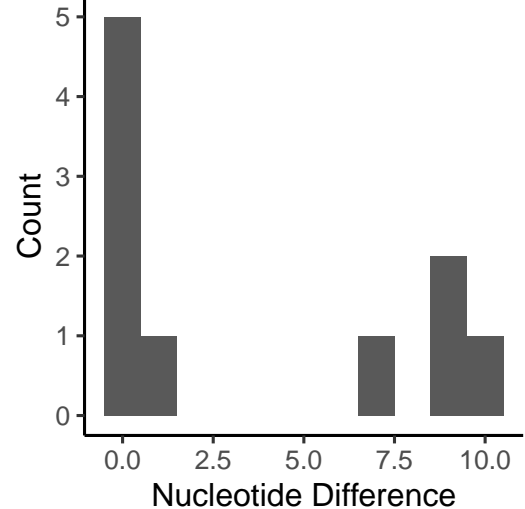
### IGKV3D-11\*02\_T6A\_T10/

98 sequences assigned  
32 (32.7%) exact matches, in which:  
30 unique CDR3  
5 unique J



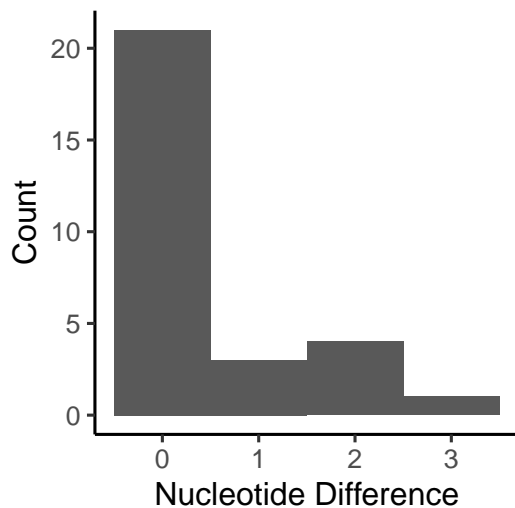
### IGKV1D-16\*01

10 sequences assigned  
5 (50%) exact matches, in which:  
5 unique CDR3  
3 unique J



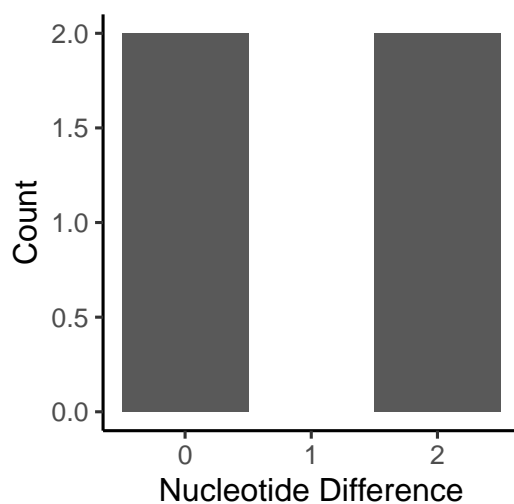
### IGKV3D-20\*01

29 sequences assigned  
21 (72.4%) exact matches, in which:  
21 unique CDR3  
5 unique J



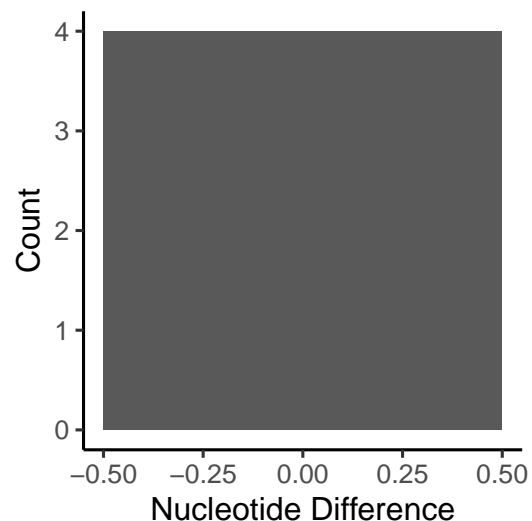
### IGKV2D-24\*01

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



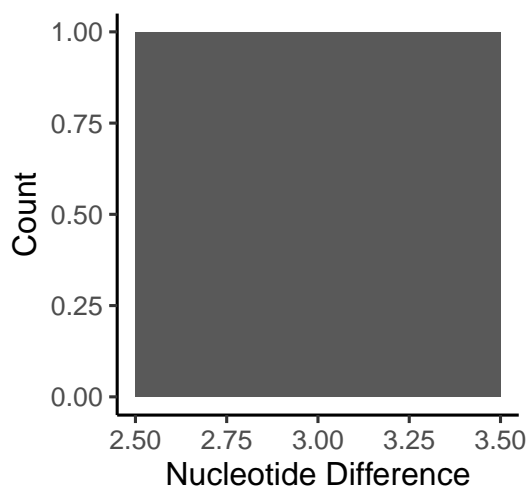
### IGKV2D-30\*01

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



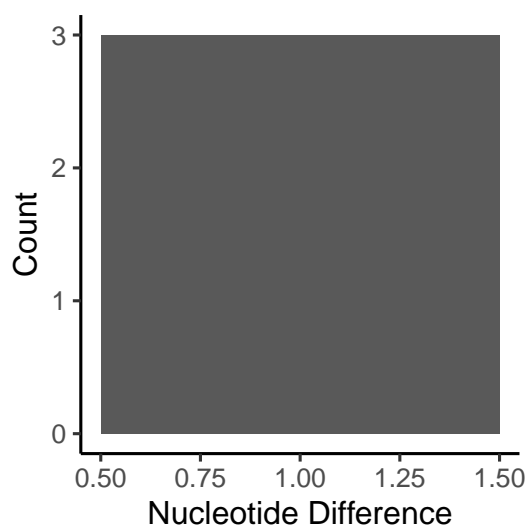
### IGKV3D-20\*02

1 sequences assigned  
No exact matches.



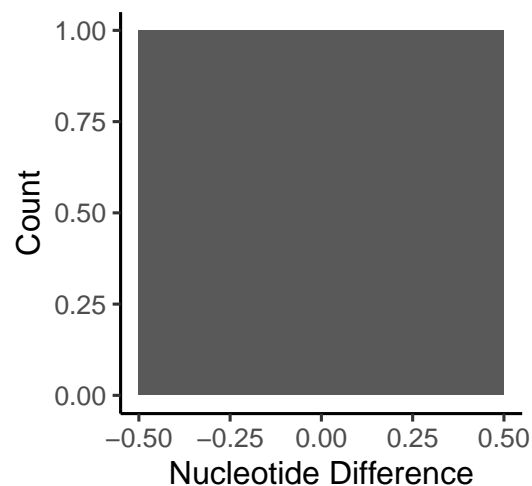
### IGKV2D-26\*03

3 sequences assigned  
No exact matches.



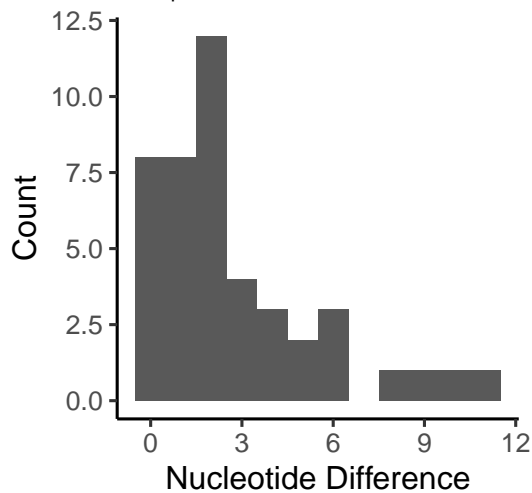
### IGKV6D-41\*01

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



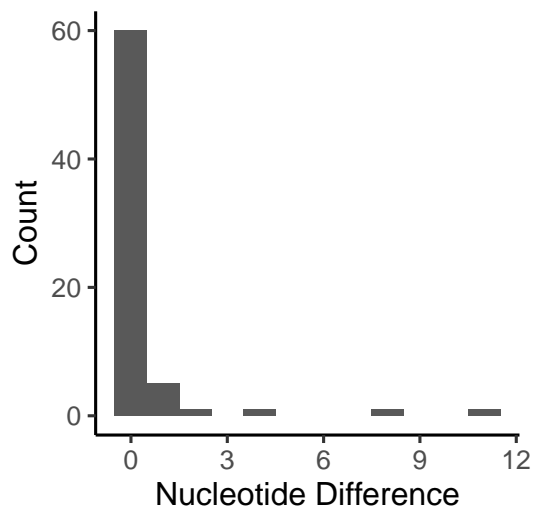
### IGKV3D-20\*02\_C26G\_A

44 sequences assigned  
8 (18.2%) exact matches, in which:  
7 unique CDR3  
4 unique J



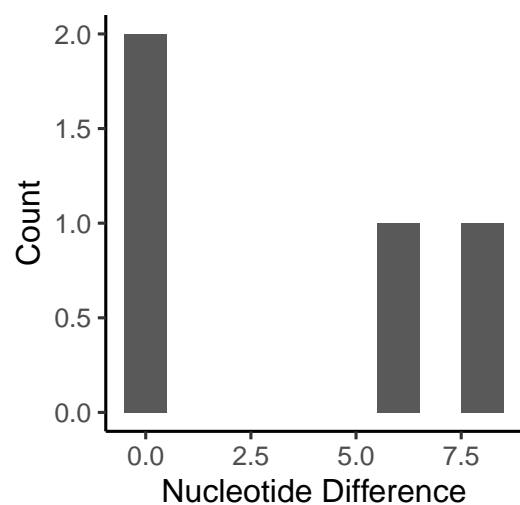
### IGKV2D-29\*02

69 sequences assigned  
60 (87%) exact matches, in which:  
57 unique CDR3  
5 unique J



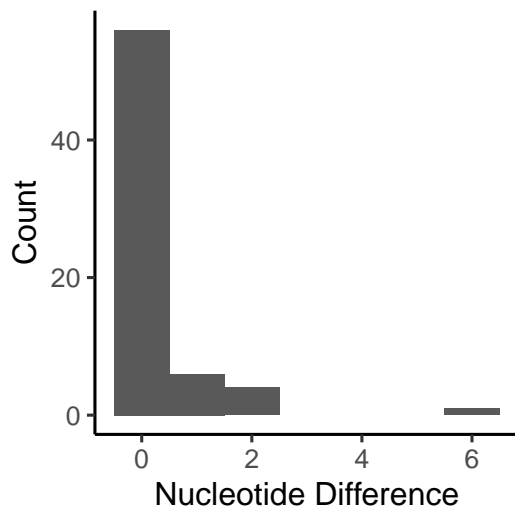
### IGKV1D-43\*01

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



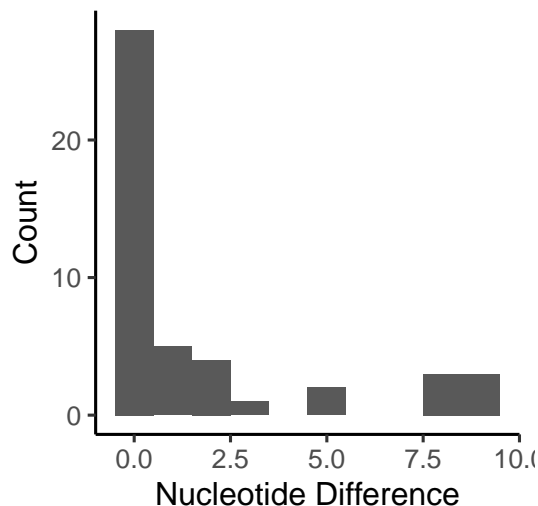
### IGKV1E-12\*01

67 sequences assigned  
56 (83.6%) exact matches, in which:  
36 unique CDR3  
5 unique J



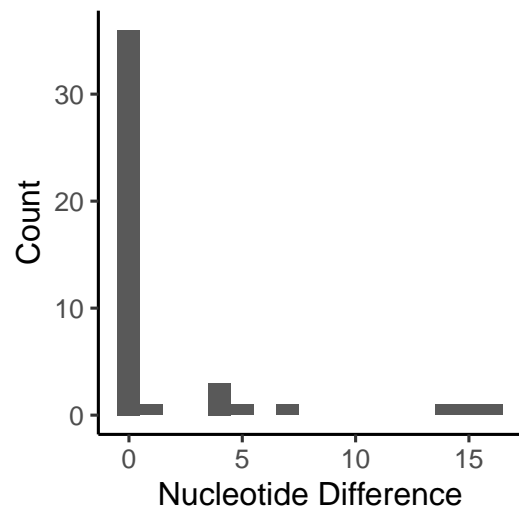
### IGKV1E-12\*01\_T309C

47 sequences assigned  
28 (59.6%) exact matches, in which:  
26 unique CDR3  
4 unique J



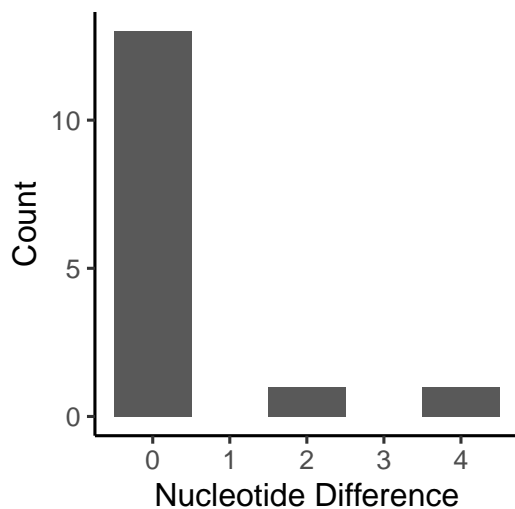
### IGKV6E-21\*01

45 sequences assigned  
36 (80%) exact matches, in which:  
27 unique CDR3  
5 unique J



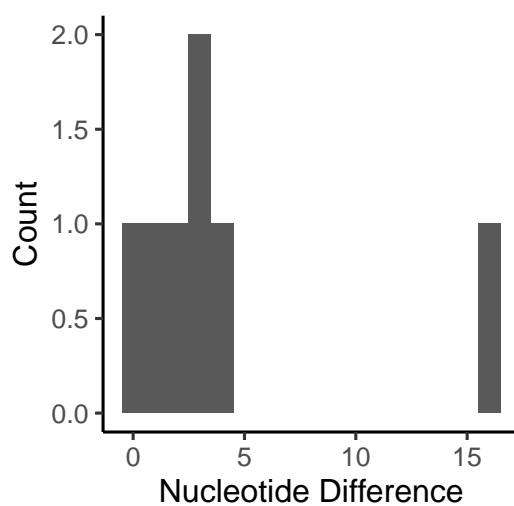
### IGKV1E-12\*02

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



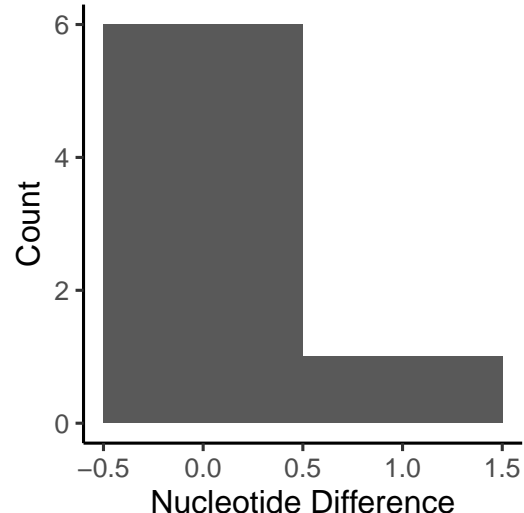
### IGKV1E-13\*02

7 sequences assigned  
1 (14.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



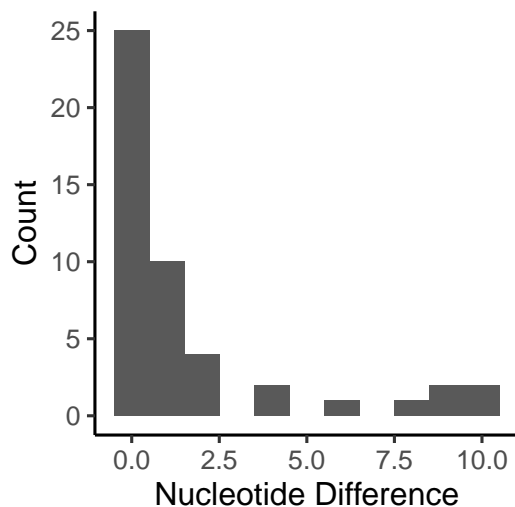
### IGKV6E-21\*03

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



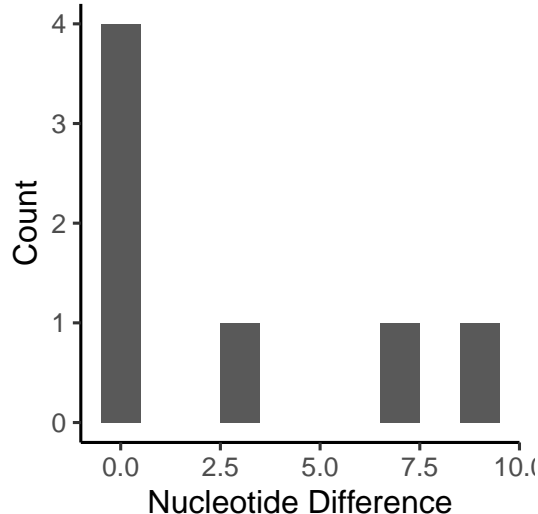
### IGKV1E-12\*01\_C306T\_T309C

47 sequences assigned  
25 (53.2%) exact matches, in which:  
25 unique CDR3  
5 unique J



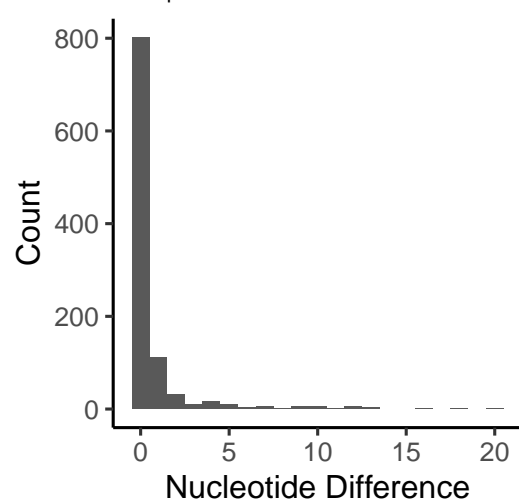
### IGKV1E-13\*03

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
2 unique J



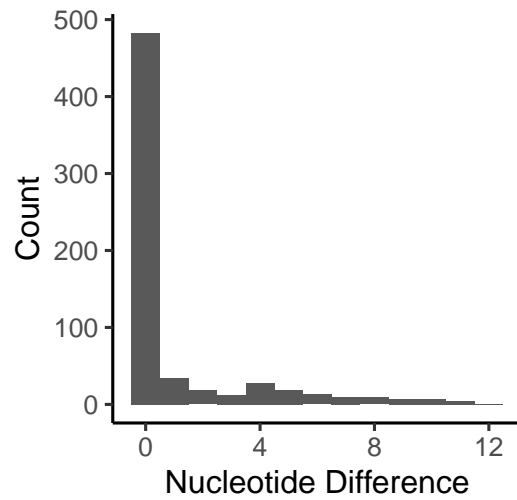
### IGKV2E-28\*01

1020 sequences assigned  
802 (78.6%) exact matches, in which:  
552 unique CDR3  
5 unique J



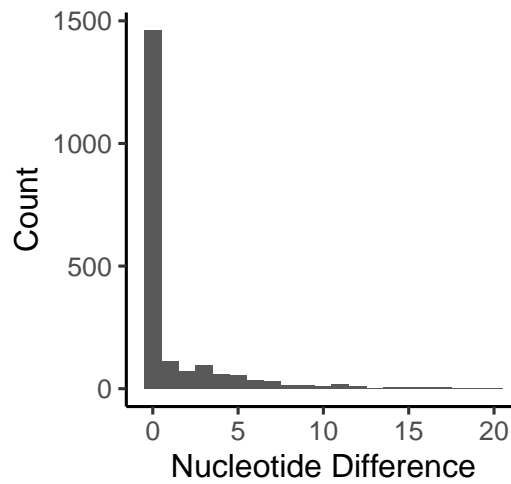
### IGKV1E-33\*01

647 sequences assigned  
483 (74.7%) exact matches, in which:  
362 unique CDR3  
5 unique J



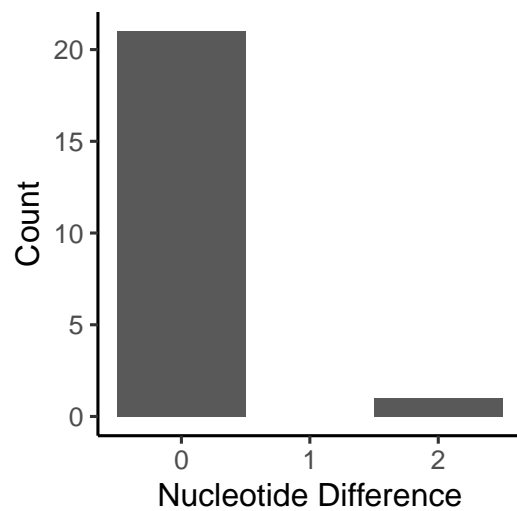
### IGKV1E-39\*01

2033 sequences assigned  
1461 (71.9%) exact matches, in which:  
961 unique CDR3  
5 unique J



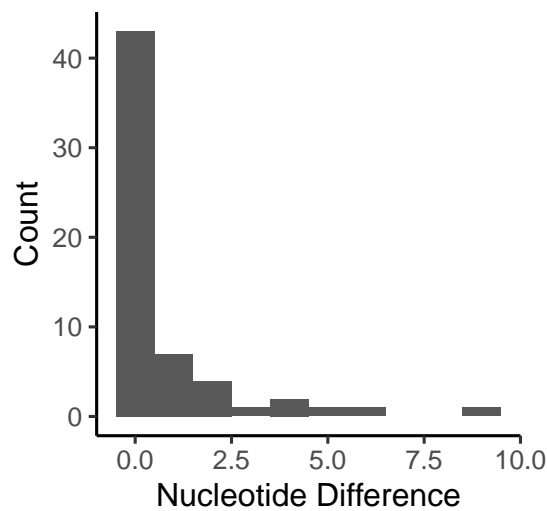
### IGKV1E-37\*01

22 sequences assigned  
21 (95.5%) exact matches, in which:  
20 unique CDR3  
4 unique J



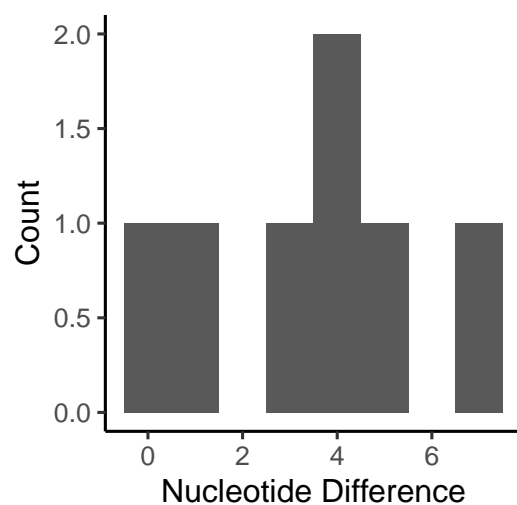
### IGKV2E-40\*01

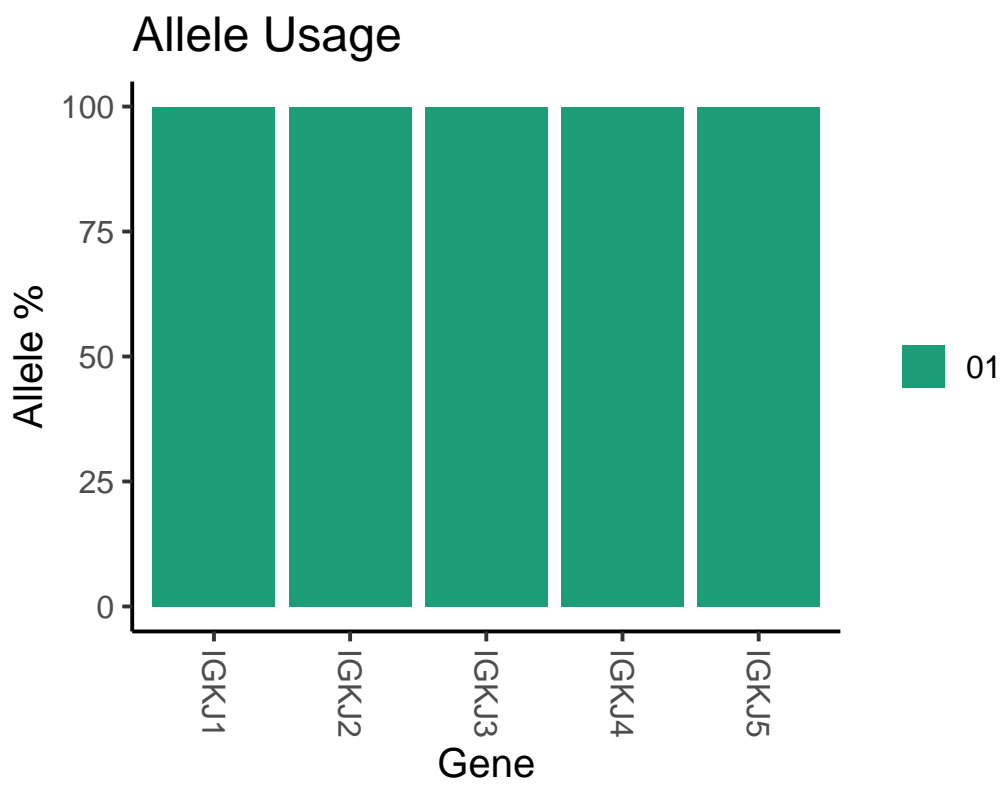
61 sequences assigned  
43 (70.5%) exact matches, in which:  
35 unique CDR3  
5 unique J



### IGKV1E-37\*01\_G310T\_G317A

7 sequences assigned  
1 (14.3%) exact matches, in which:  
1 unique CDR3  
1 unique J







Warning – no inferred sequences found.