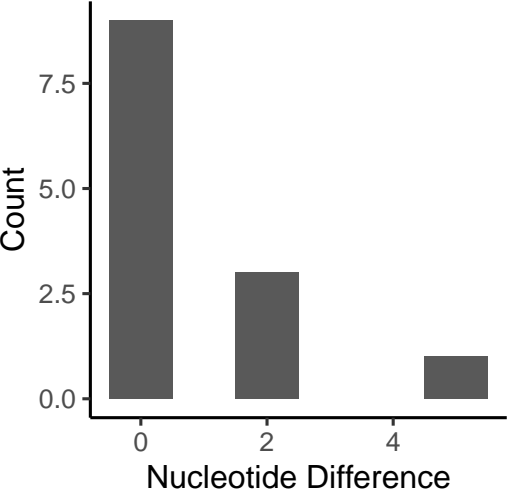


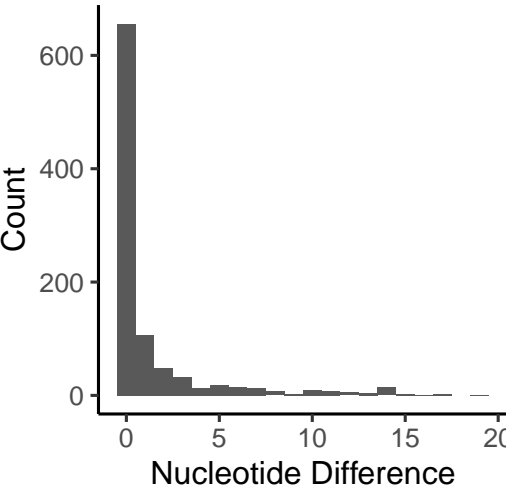
IGLV10-54\*01

13 sequences assigned  
9 (69.2%) exact matches, in which:  
5 unique CDR3  
2 unique J



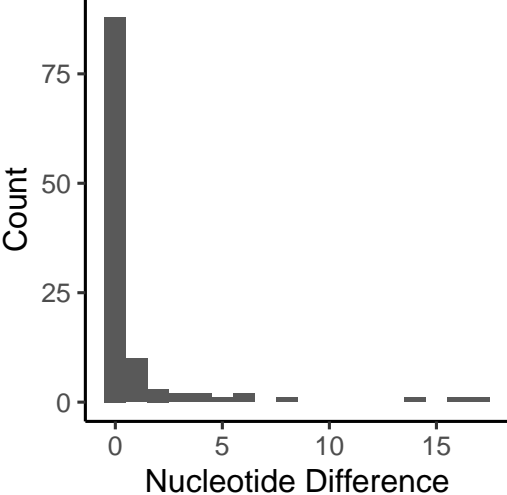
IGLV1-40\*01

965 sequences assigned  
656 (68%) exact matches, in which:  
411 unique CDR3  
5 unique J



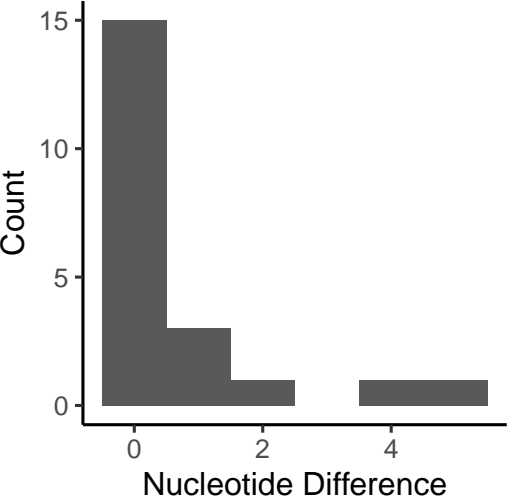
IGLV1-47\*01

112 sequences assigned  
88 (78.6%) exact matches, in which:  
81 unique CDR3  
4 unique J



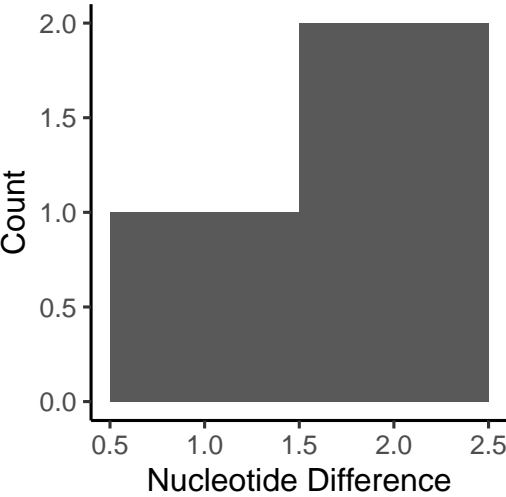
IGLV10-54\*01\_A228C

21 sequences assigned  
15 (71.4%) exact matches, in which:  
10 unique CDR3  
2 unique J



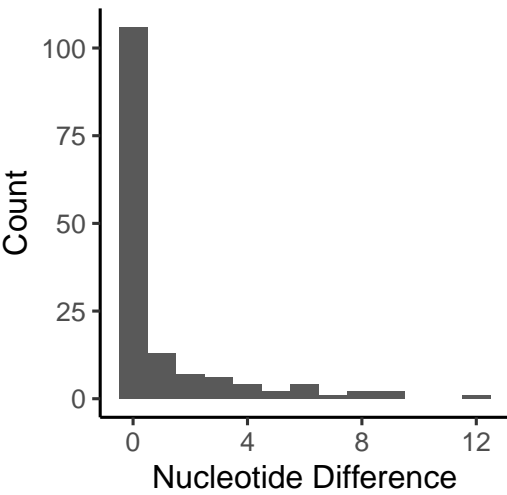
IGLV1-41\*02

3 sequences assigned  
No exact matches.



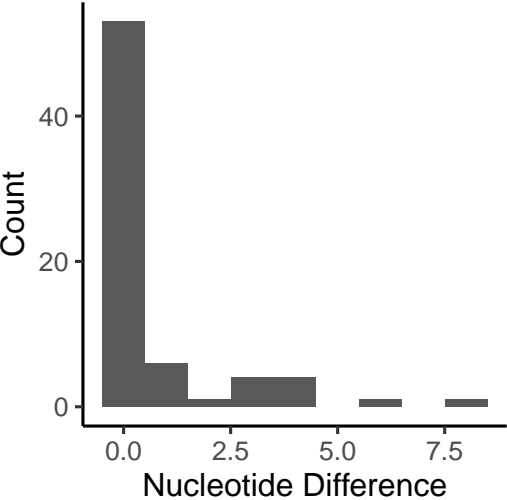
IGLV1-47\*01\_G39T

149 sequences assigned  
106 (71.1%) exact matches, in which:  
100 unique CDR3  
3 unique J



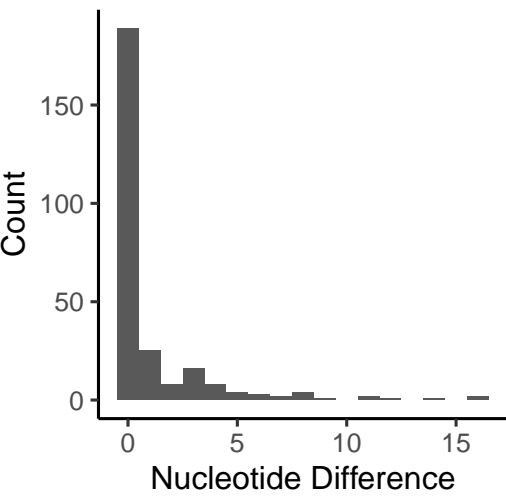
IGLV1-36\*01

70 sequences assigned  
53 (75.7%) exact matches, in which:  
31 unique CDR3  
3 unique J



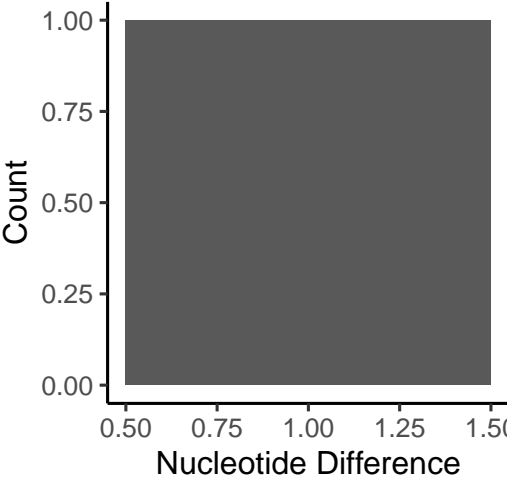
IGLV1-44\*01

269 sequences assigned  
189 (70.3%) exact matches, in which:  
127 unique CDR3  
3 unique J



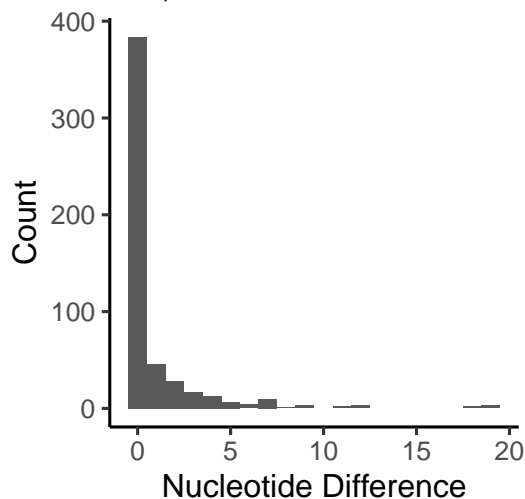
IGLV1-50\*01

1 sequences assigned  
No exact matches.



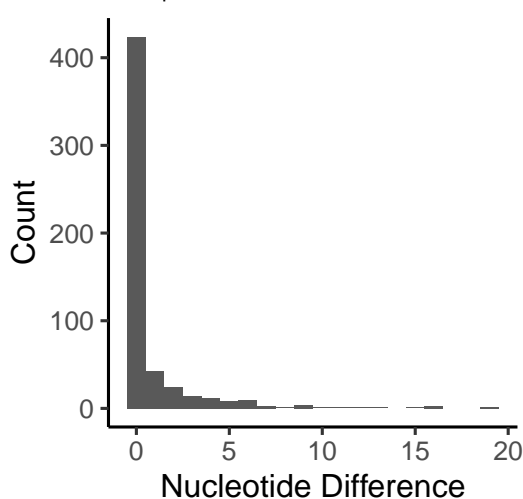
### IGLV1-51\*02

525 sequences assigned  
384 (73.1%) exact matches, in which:  
228 unique CDR3  
5 unique J



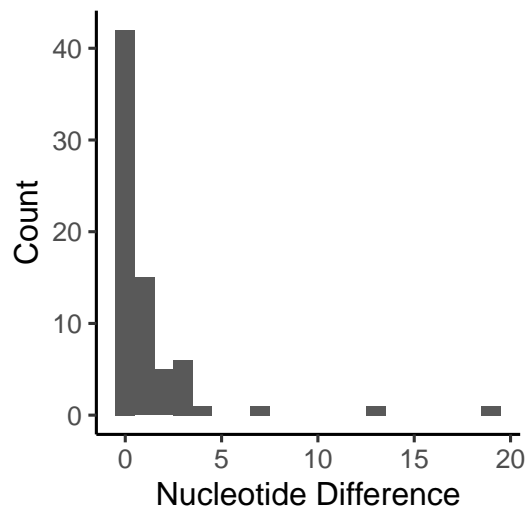
### IGLV2-11\*01

555 sequences assigned  
424 (76.4%) exact matches, in which:  
299 unique CDR3  
3 unique J



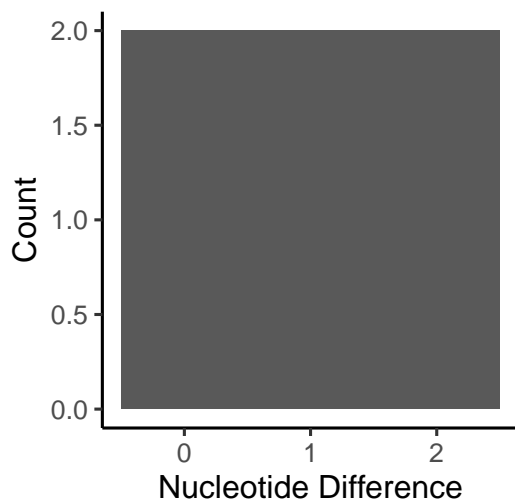
### IGLV2-18\*02

72 sequences assigned  
42 (58.3%) exact matches, in which:  
30 unique CDR3  
3 unique J



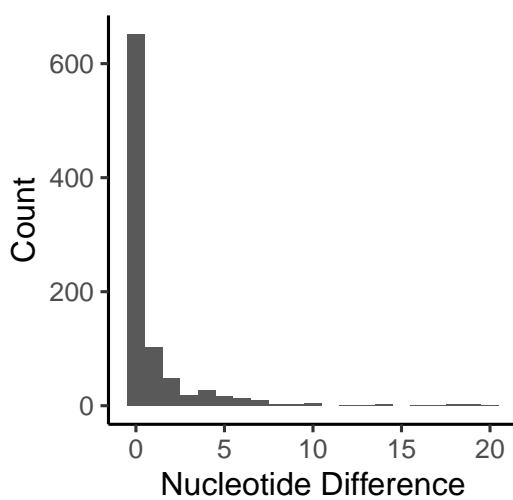
### IGLV2-5\*01

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



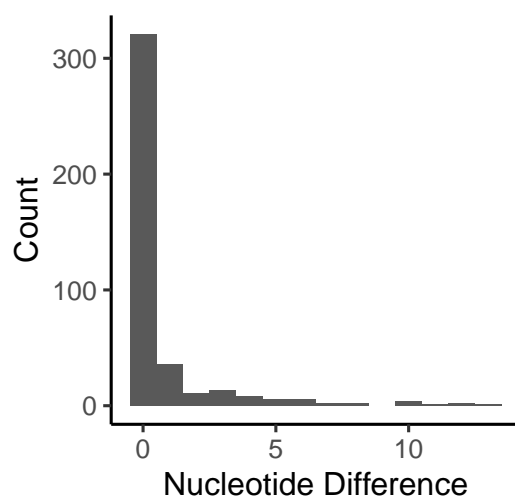
### IGLV2-14\*01

916 sequences assigned  
652 (71.2%) exact matches, in which:  
492 unique CDR3  
4 unique J



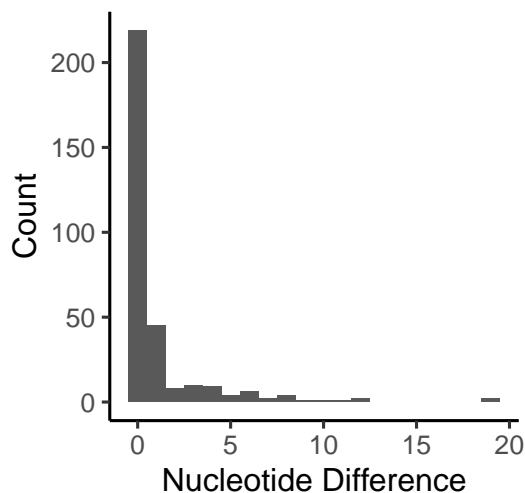
### IGLV2-23\*01

413 sequences assigned  
321 (77.7%) exact matches, in which:  
264 unique CDR3  
3 unique J



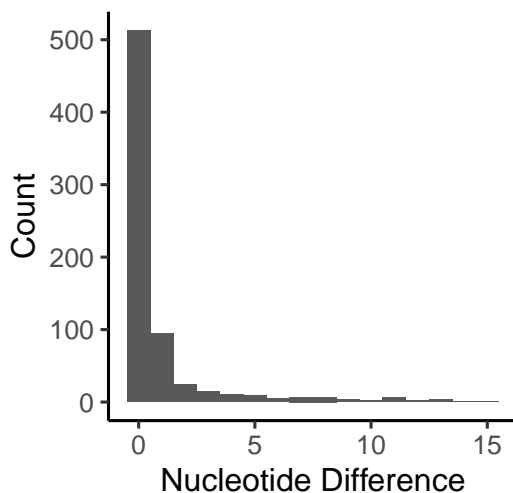
### IGLV2-8\*01

315 sequences assigned  
219 (69.5%) exact matches, in which:  
170 unique CDR3  
3 unique J



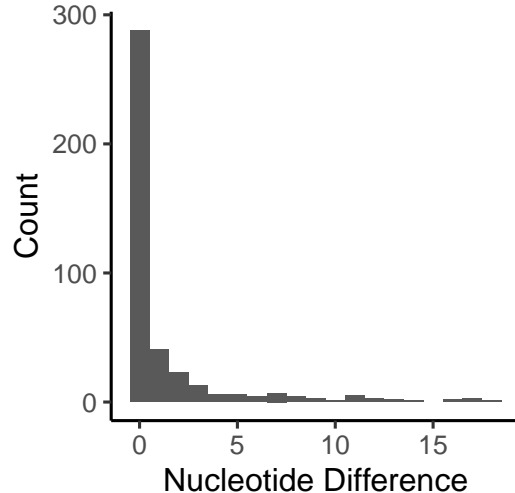
### IGLV2-14\*03EXT3

708 sequences assigned  
513 (72.5%) exact matches, in which:  
382 unique CDR3  
3 unique J



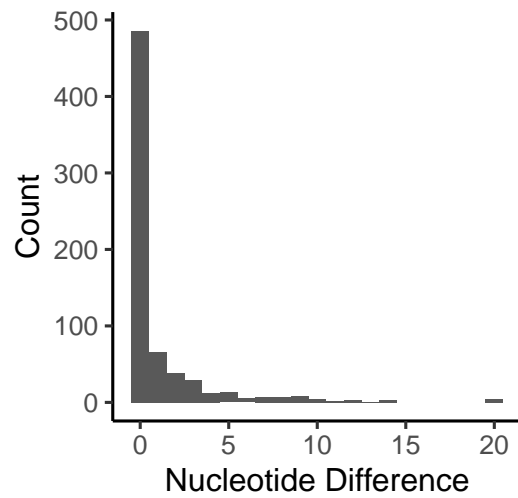
### IGLV2-23\*01\_G170T

413 sequences assigned  
288 (69.7%) exact matches, in which:  
230 unique CDR3  
3 unique J



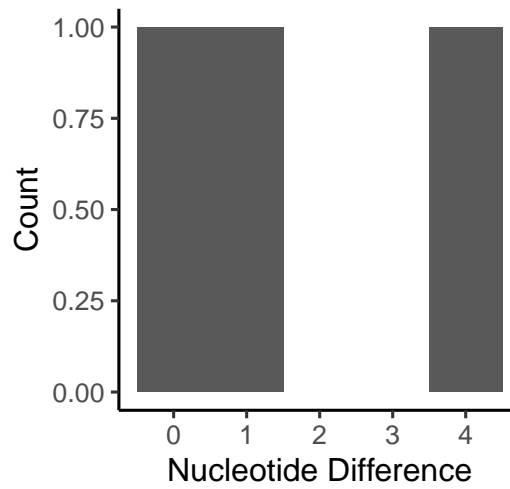
### IGLV3-1\*01

693 sequences assigned  
486 (70.1%) exact matches, in which:  
292 unique CDR3  
4 unique J



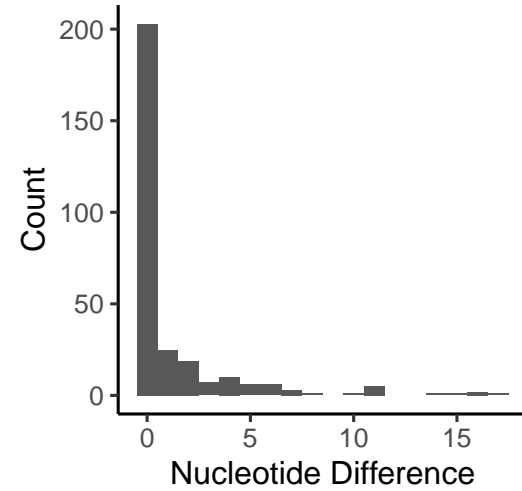
### IGLV3-12\*01

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



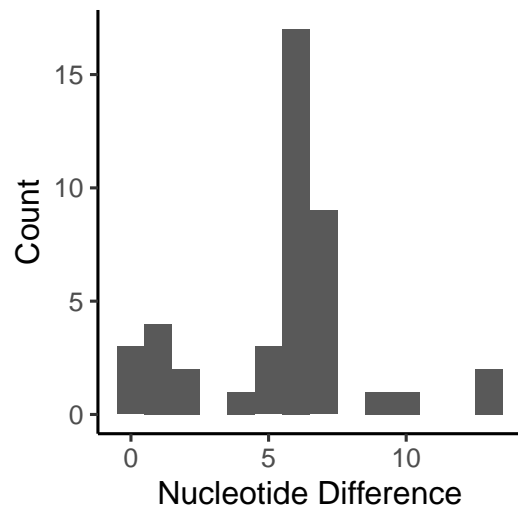
### IGLV3-21\*02

299 sequences assigned  
203 (67.9%) exact matches, in which:  
149 unique CDR3  
4 unique J



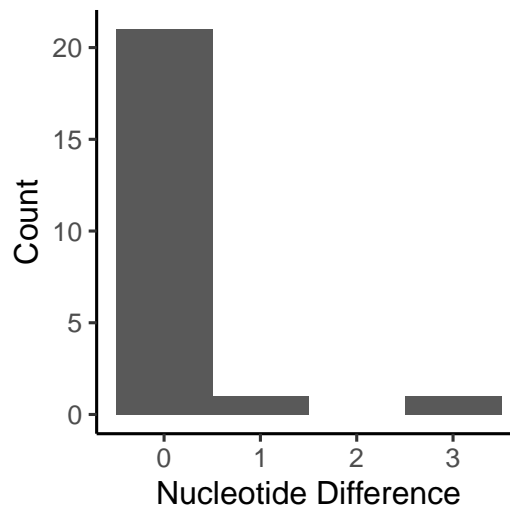
### IGLV3-9\*02

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



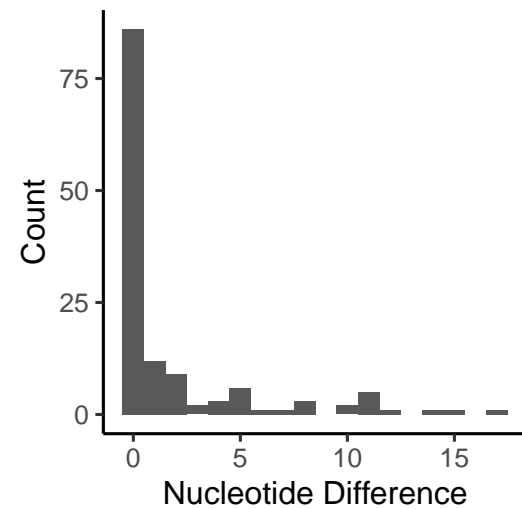
### IGLV3-16\*01

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



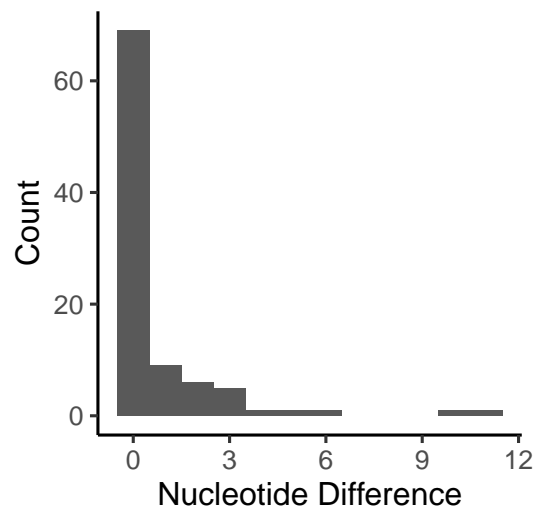
### IGLV3-21\*04

135 sequences assigned  
86 (63.7%) exact matches, in which:  
65 unique CDR3  
4 unique J



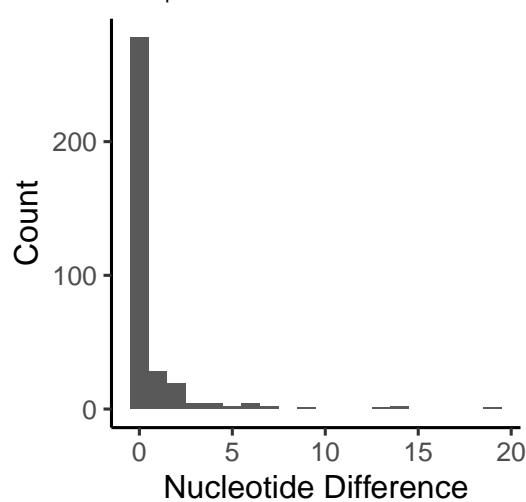
### IGLV3-10\*01

94 sequences assigned  
69 (73.4%) exact matches, in which:  
58 unique CDR3  
3 unique J



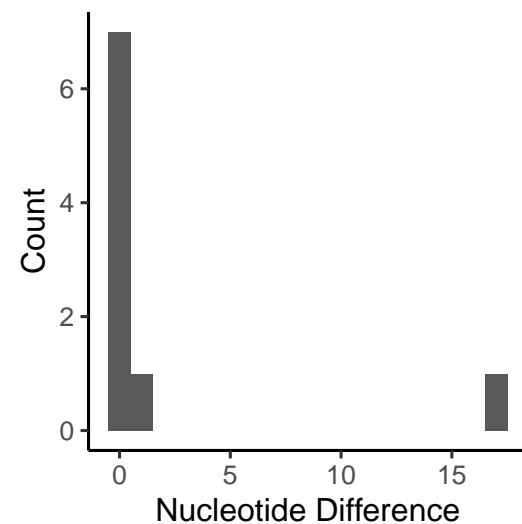
### IGLV3-19\*01

349 sequences assigned  
278 (79.7%) exact matches, in which:  
177 unique CDR3  
3 unique J



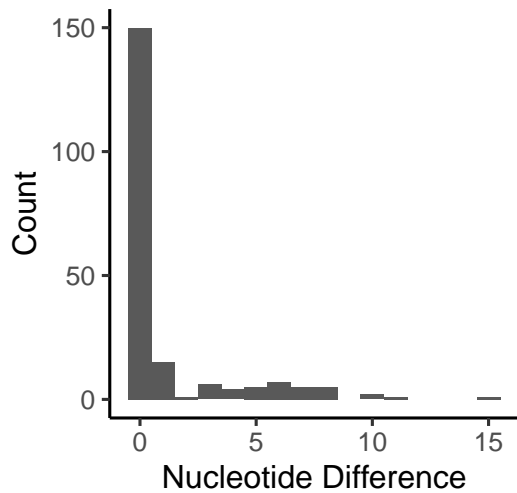
### IGLV3-22\*01

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



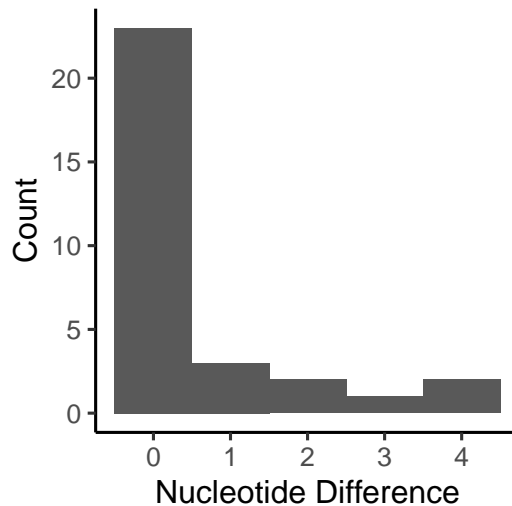
### IGLV3-25\*02

202 sequences assigned  
150 (74.3%) exact matches, in which:  
129 unique CDR3  
4 unique J



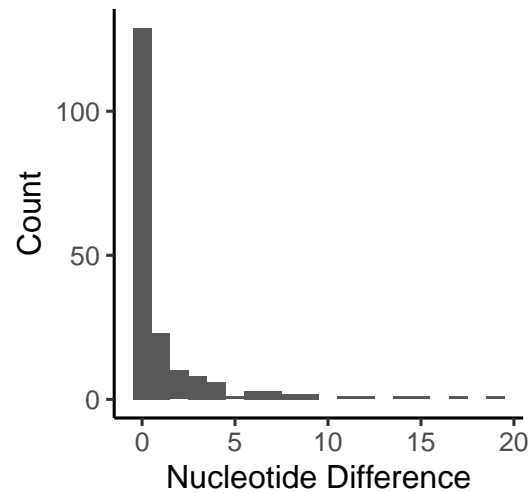
### IGLV3-27\*01

31 sequences assigned  
23 (74.2%) exact matches, in which:  
21 unique CDR3  
2 unique J



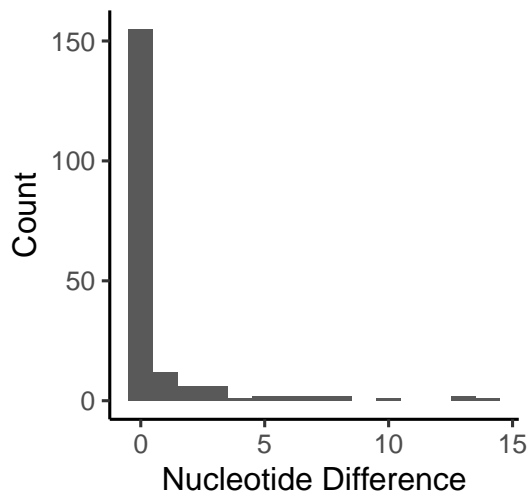
### IGLV4-69\*01

194 sequences assigned  
129 (66.5%) exact matches, in which:  
94 unique CDR3  
3 unique J



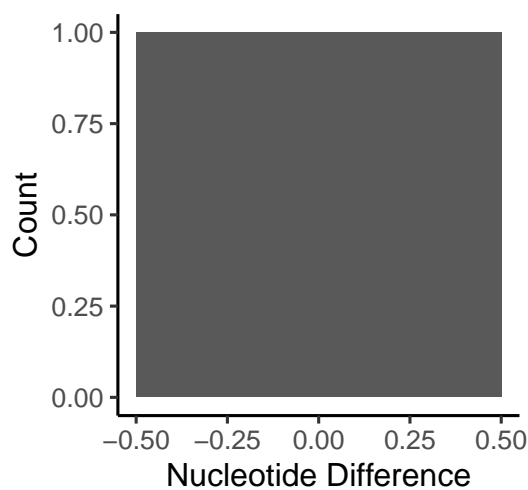
### IGLV3-25\*03

193 sequences assigned  
155 (80.3%) exact matches, in which:  
117 unique CDR3  
3 unique J



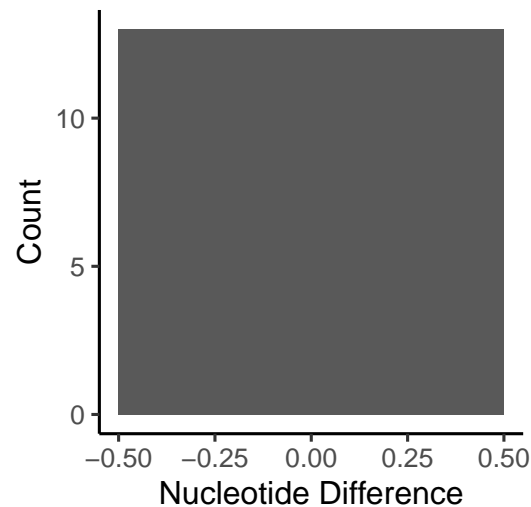
### IGLV4-3\*01

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



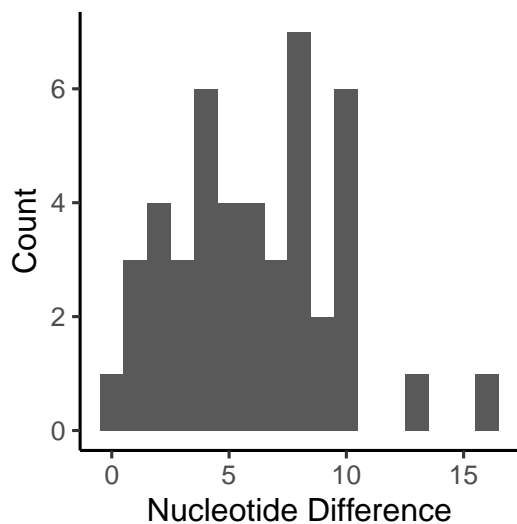
### IGLV5-37\*01

13 sequences assigned  
13 (100%) exact matches, in which:  
11 unique CDR3  
2 unique J



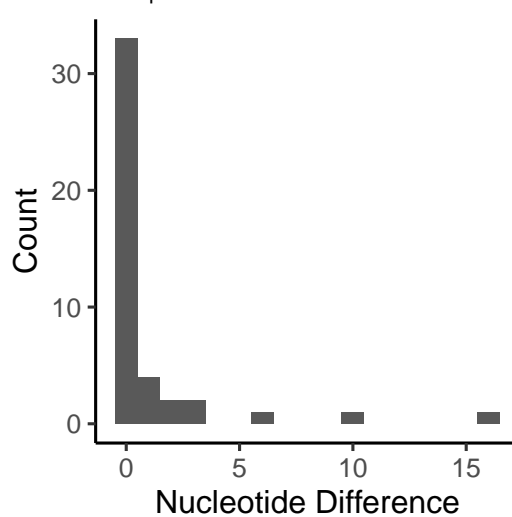
### IGLV3-25\*02\_C154T

45 sequences assigned  
1 (2.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



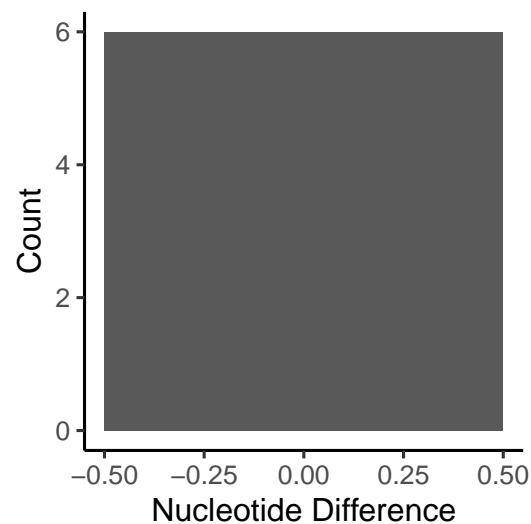
### IGLV4-60\*02

44 sequences assigned  
33 (75%) exact matches, in which:  
29 unique CDR3  
3 unique J



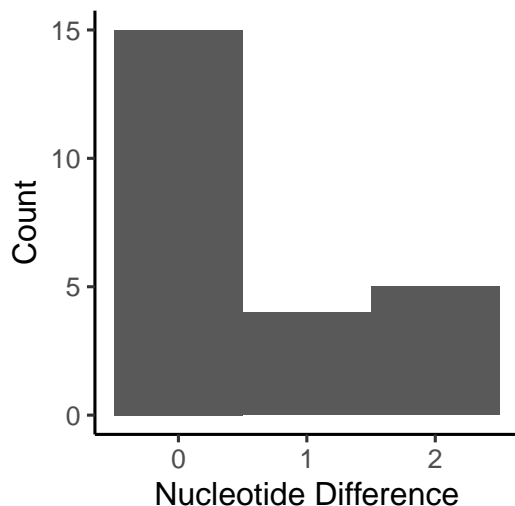
### IGLV5-39\*01

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



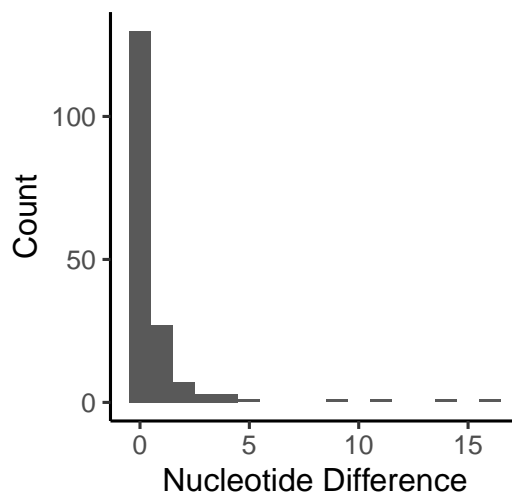
### IGLV5-45\*01

24 sequences assigned  
15 (62.5%) exact matches, in which:  
15 unique CDR3  
3 unique J



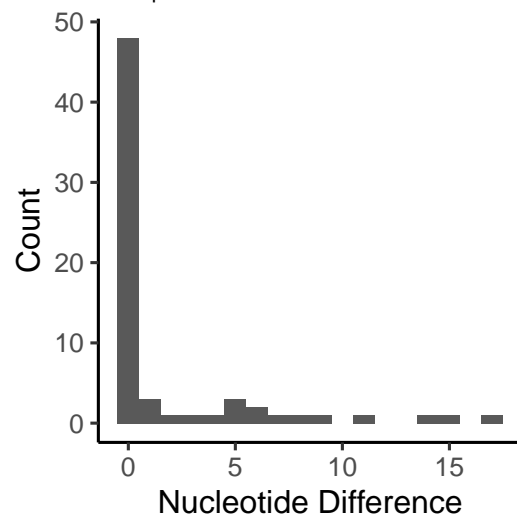
### IGLV6-57\*01

182 sequences assigned  
130 (71.4%) exact matches, in which:  
99 unique CDR3  
4 unique J



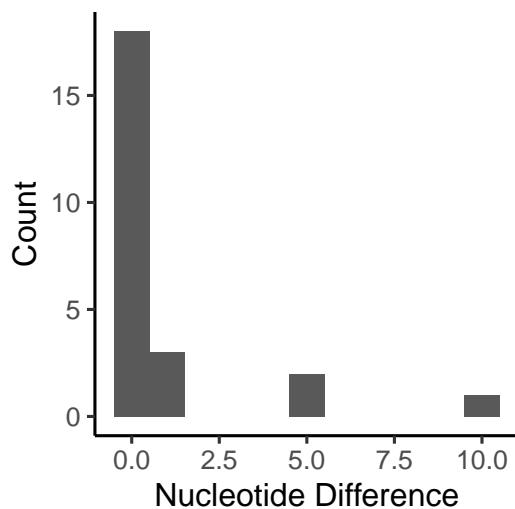
### IGLV8-61\*01

67 sequences assigned  
48 (71.6%) exact matches, in which:  
33 unique CDR3  
4 unique J



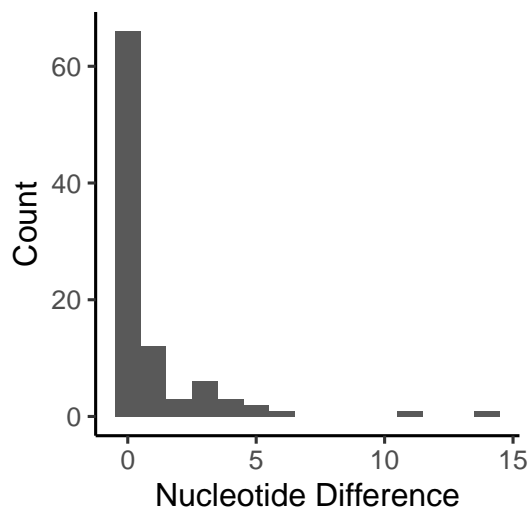
### IGLV5-45\*03

24 sequences assigned  
18 (75%) exact matches, in which:  
18 unique CDR3  
2 unique J



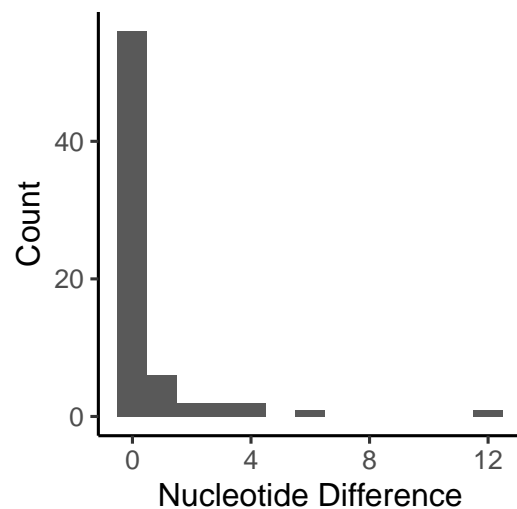
### IGLV7-43\*01

97 sequences assigned  
66 (68%) exact matches, in which:  
54 unique CDR3  
3 unique J



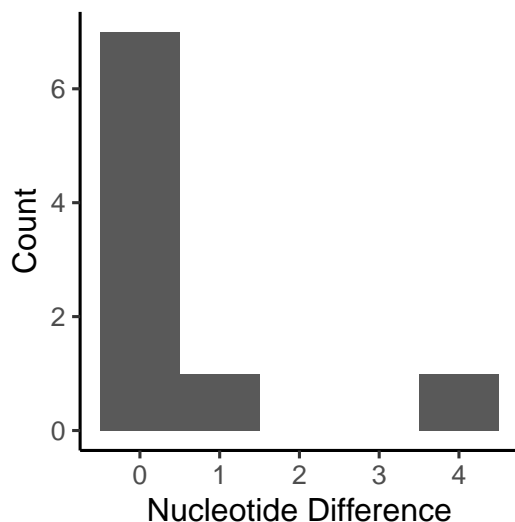
### IGLV9-49\*01

70 sequences assigned  
56 (80%) exact matches, in which:  
47 unique CDR3  
3 unique J



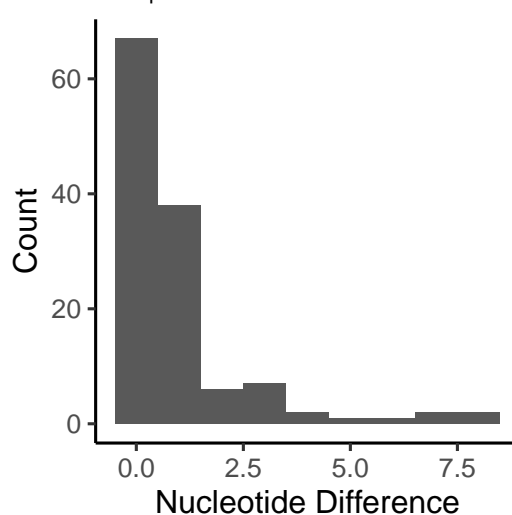
### IGLV5-52\*01

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



### IGLV7-46\*01

126 sequences assigned  
67 (53.2%) exact matches, in which:  
51 unique CDR3  
3 unique J



Allele Usage



Warning – no inferred sequences found.