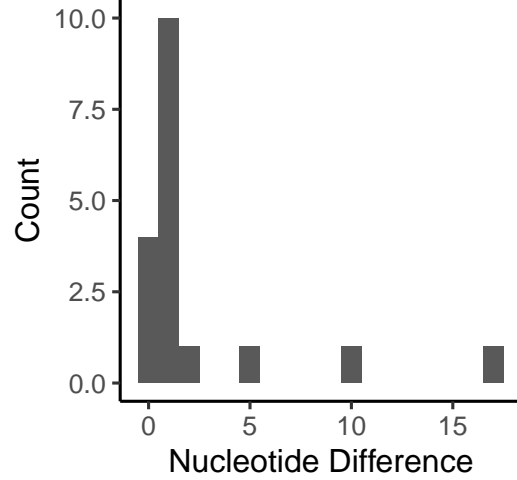


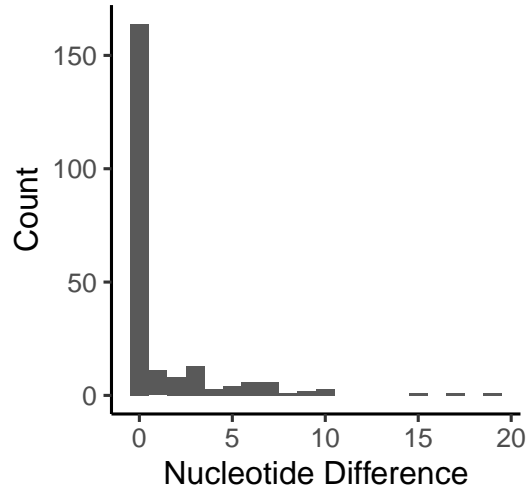
### IGLV10-54\*01

18 sequences assigned  
4 (22.2%) exact matches, in which:  
4 unique CDR3  
2 unique J



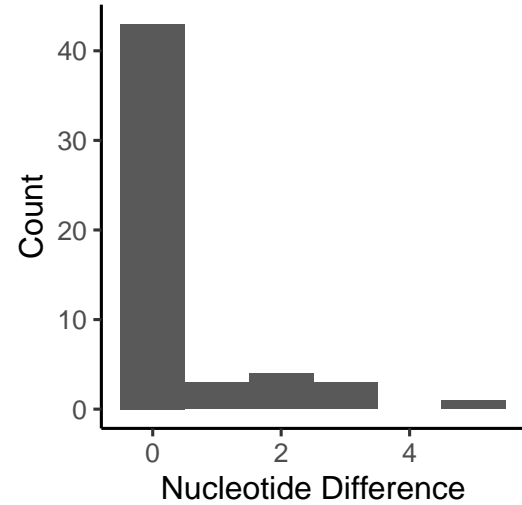
### IGLV1-44\*01

227 sequences assigned  
164 (72.2%) exact matches, in which:  
146 unique CDR3  
4 unique J



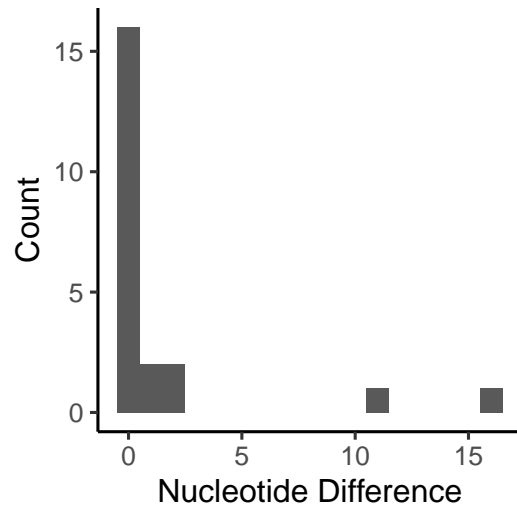
### IGLV1-51\*01

54 sequences assigned  
43 (79.6%) exact matches, in which:  
36 unique CDR3  
3 unique J



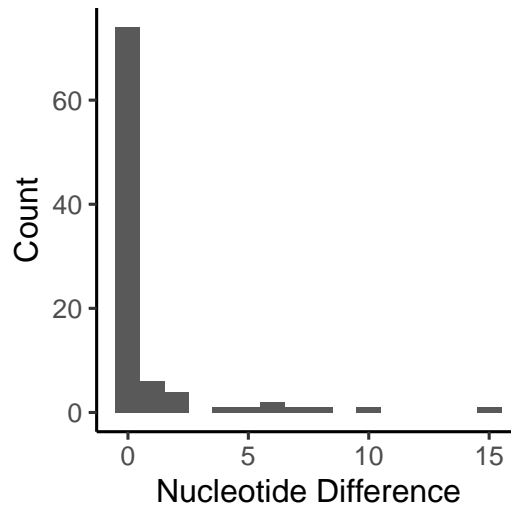
### IGLV1-36\*01

23 sequences assigned  
16 (69.6%) exact matches, in which:  
16 unique CDR3  
3 unique J



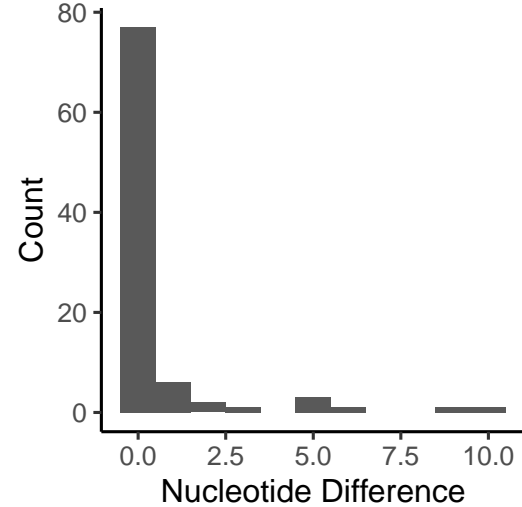
### IGLV1-47\*01

93 sequences assigned  
74 (79.6%) exact matches, in which:  
69 unique CDR3  
3 unique J



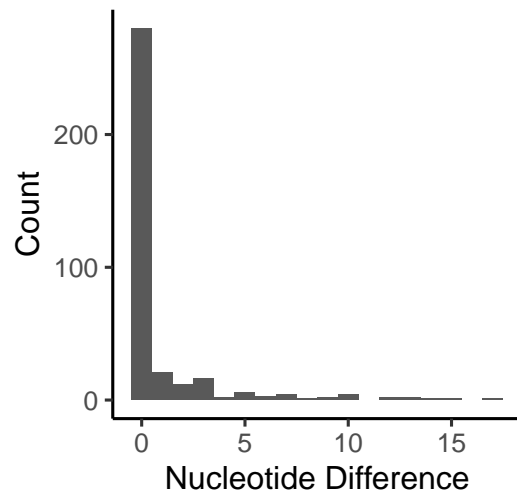
### IGLV1-51\*02

93 sequences assigned  
77 (82.8%) exact matches, in which:  
69 unique CDR3  
4 unique J



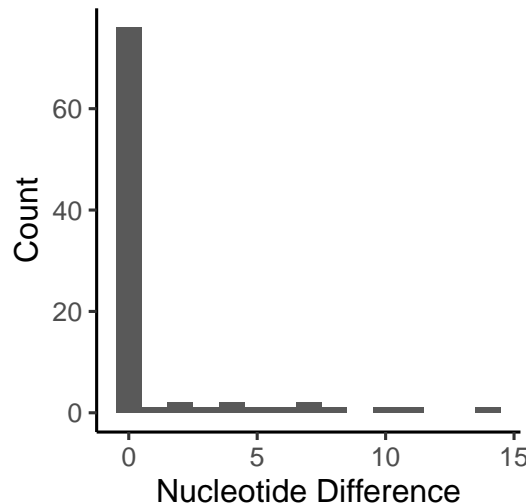
### IGLV1-40\*01

360 sequences assigned  
280 (77.8%) exact matches, in which:  
260 unique CDR3  
4 unique J



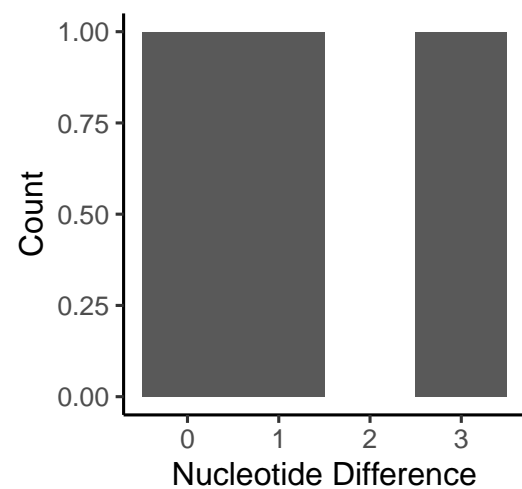
### IGLV1-47\*01\_G39T

90 sequences assigned  
76 (84.4%) exact matches, in which:  
74 unique CDR3  
5 unique J



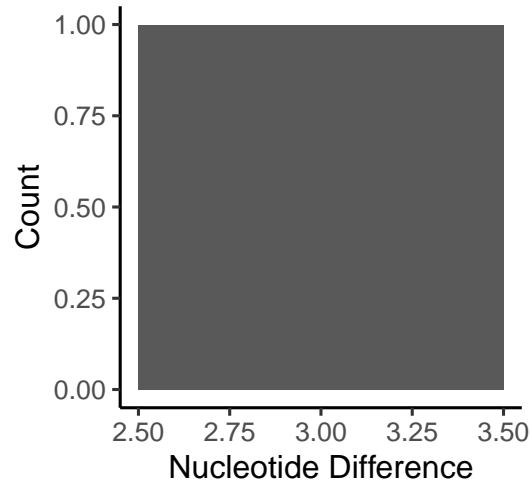
### IGLV2-5\*01

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



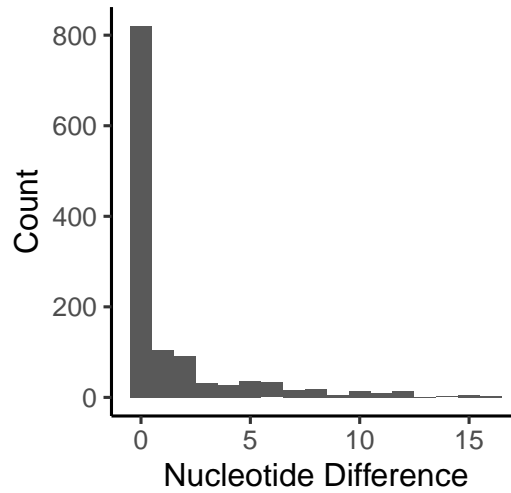
### IGLV2-5\*02

1 sequences assigned  
No exact matches.



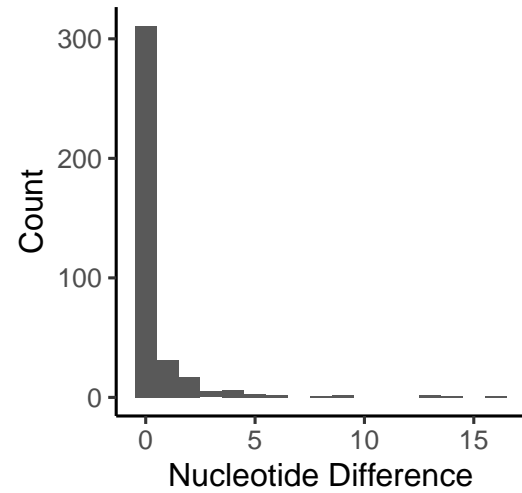
### IGLV2-14\*04EXT3

1239 sequences assigned  
821 (66.3%) exact matches, in which:  
726 unique CDR3  
4 unique J



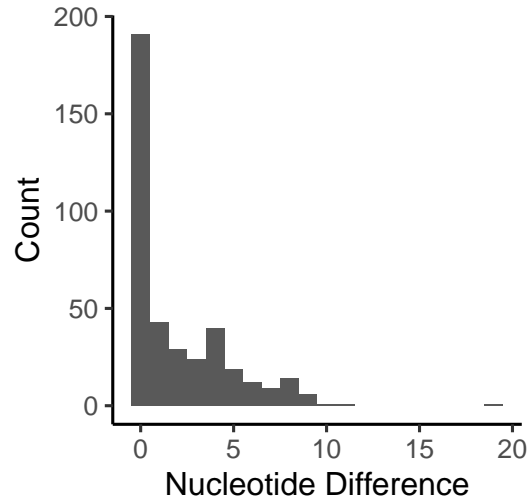
### IGLV2-23\*01

383 sequences assigned  
311 (81.2%) exact matches, in which:  
296 unique CDR3  
4 unique J



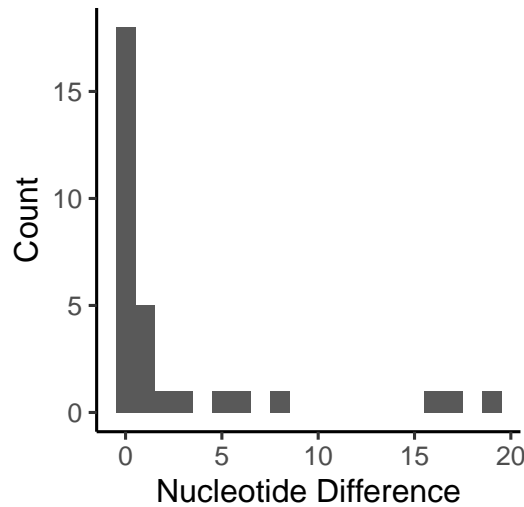
### IGLV2-8\*01

391 sequences assigned  
191 (48.8%) exact matches, in which:  
186 unique CDR3  
4 unique J



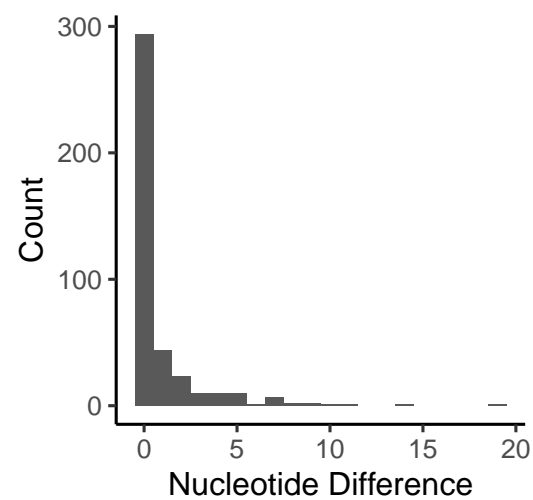
### IGLV2-18\*02

31 sequences assigned  
18 (58.1%) exact matches, in which:  
18 unique CDR3  
3 unique J



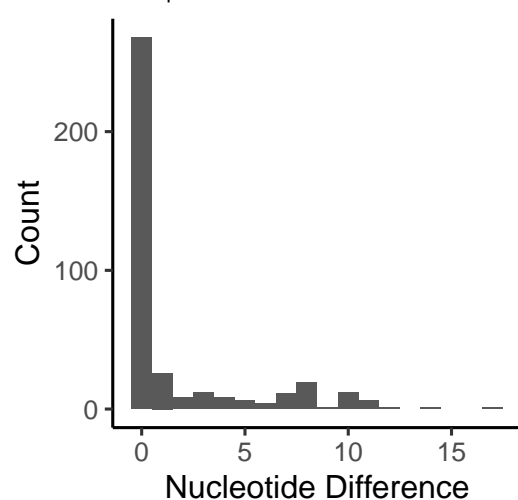
### IGLV2-23\*01\_G170T

407 sequences assigned  
294 (72.2%) exact matches, in which:  
273 unique CDR3  
4 unique J



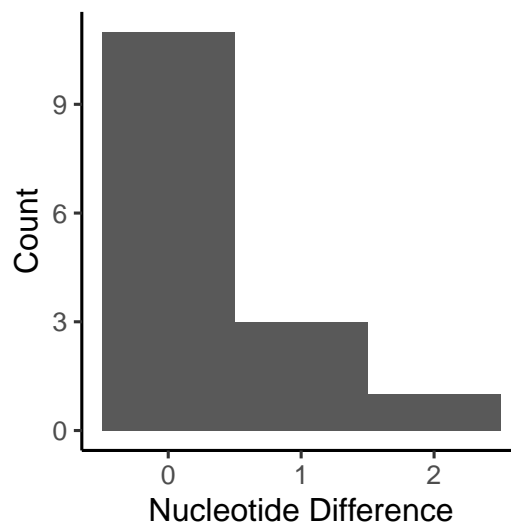
### IGLV2-11\*01

386 sequences assigned  
268 (69.4%) exact matches, in which:  
252 unique CDR3  
4 unique J



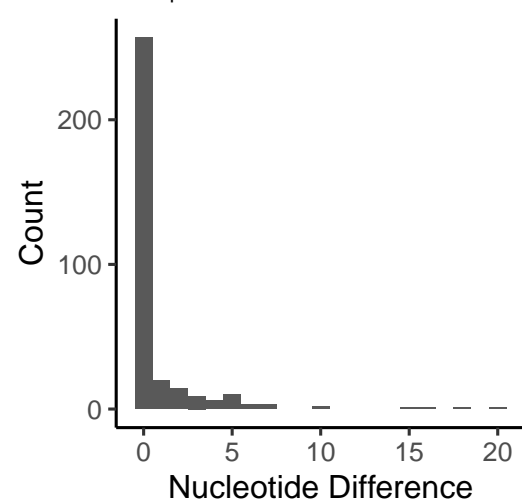
### IGLV2-18\*02\_C77T\_G88A

15 sequences assigned  
11 (73.3%) exact matches, in which:  
8 unique CDR3  
2 unique J



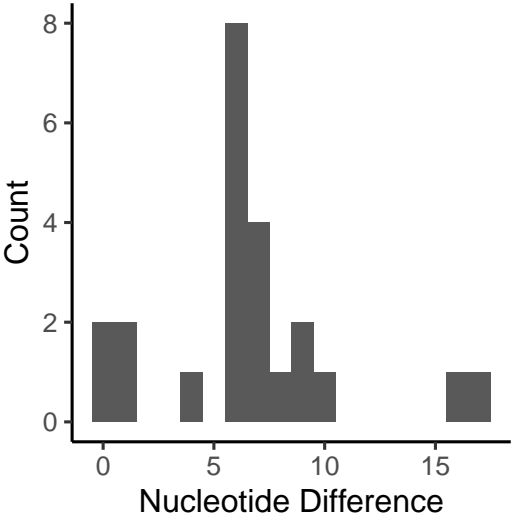
### IGLV3-1\*01

333 sequences assigned  
257 (77.2%) exact matches, in which:  
210 unique CDR3  
3 unique J



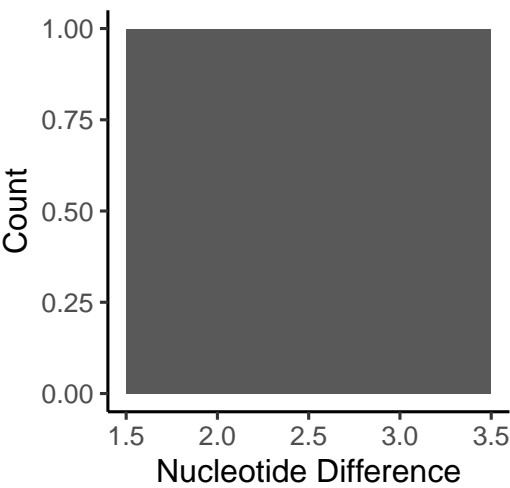
IGLV3-9\*02

23 sequences assigned  
2 (8.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



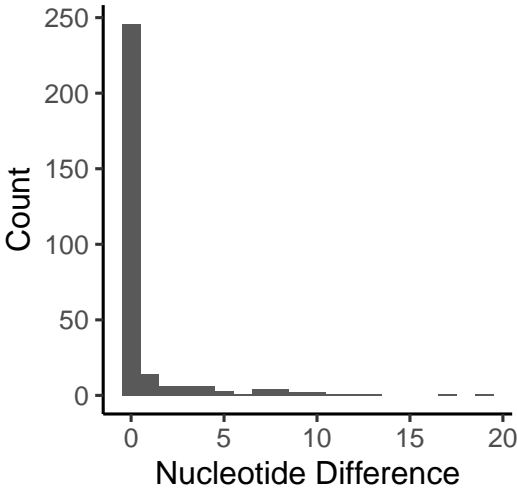
IGLV3-12\*02

2 sequences assigned  
No exact matches.



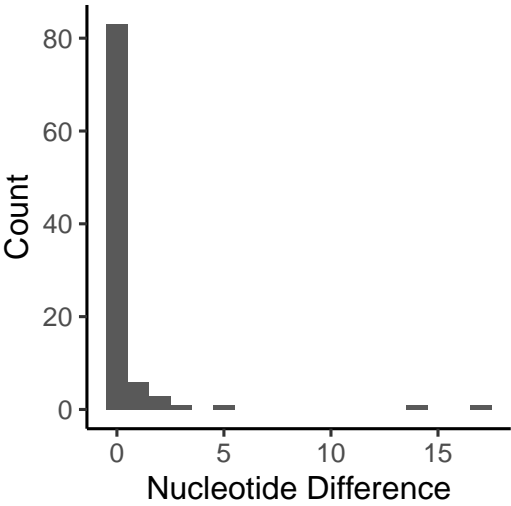
IGLV3-21\*03

306 sequences assigned  
246 (80.4%) exact matches, in which:  
212 unique CDR3  
4 unique J



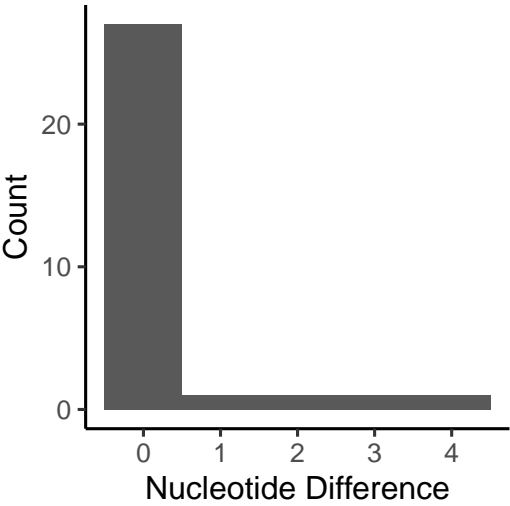
IGLV3-10\*01

97 sequences assigned  
83 (85.6%) exact matches, in which:  
77 unique CDR3  
3 unique J



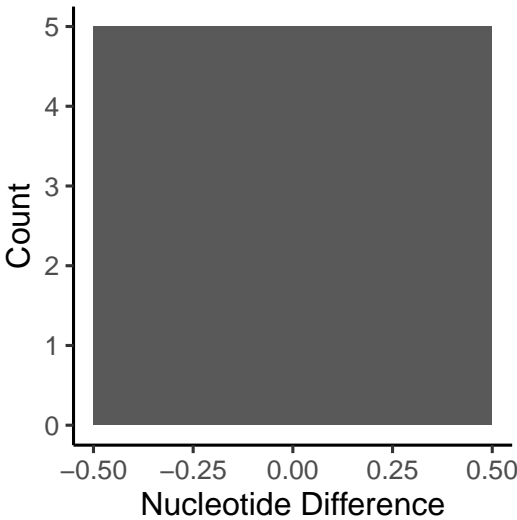
IGLV3-16\*01

31 sequences assigned  
27 (87.1%) exact matches, in which:  
26 unique CDR3  
4 unique J



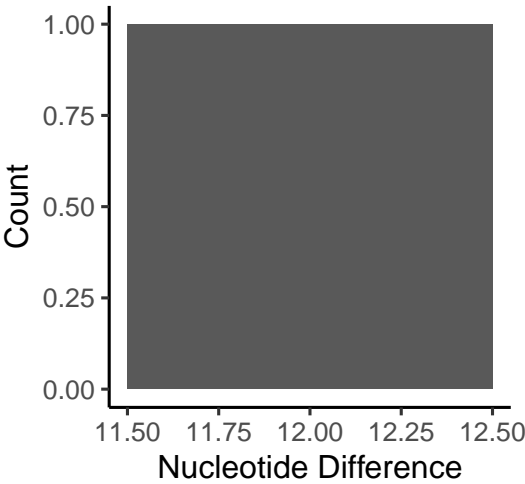
IGLV3-22\*01

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



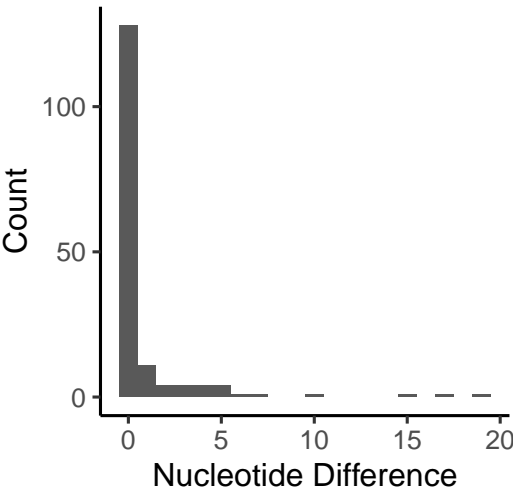
IGLV3-12\*01

1 sequences assigned  
No exact matches.



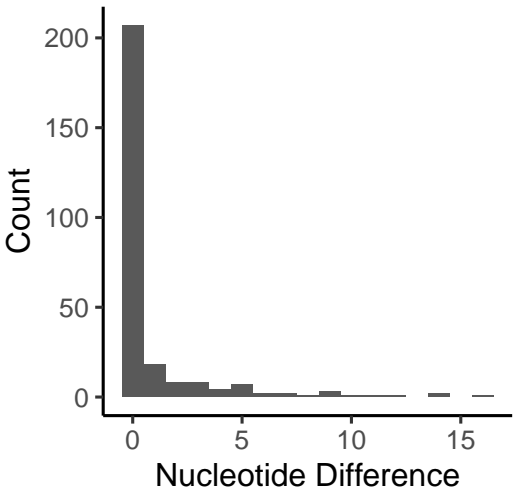
IGLV3-19\*01

162 sequences assigned  
128 (79%) exact matches, in which:  
119 unique CDR3  
4 unique J



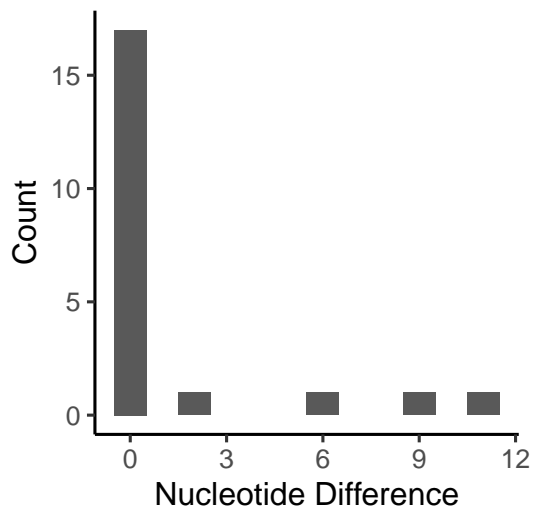
IGLV3-25\*03

266 sequences assigned  
207 (77.8%) exact matches, in which:  
189 unique CDR3  
4 unique J



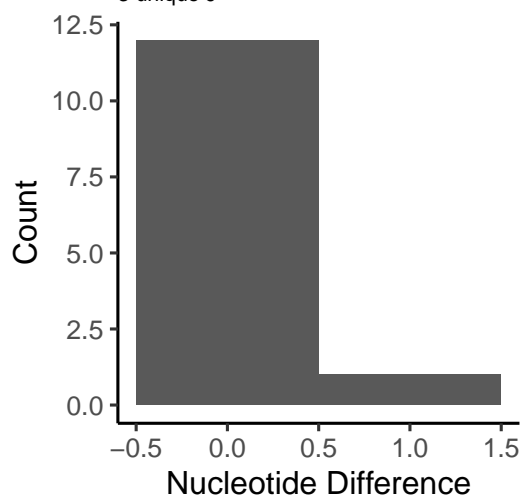
### IGLV3-27\*01

21 sequences assigned  
17 (81%) exact matches, in which:  
17 unique CDR3  
2 unique J



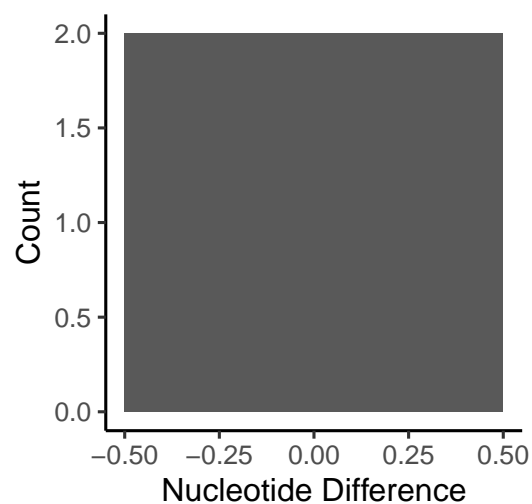
### IGLV5-37\*01

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



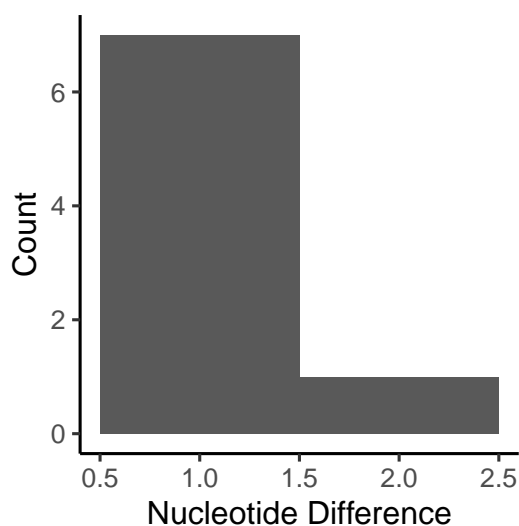
### IGLV5-52\*01

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



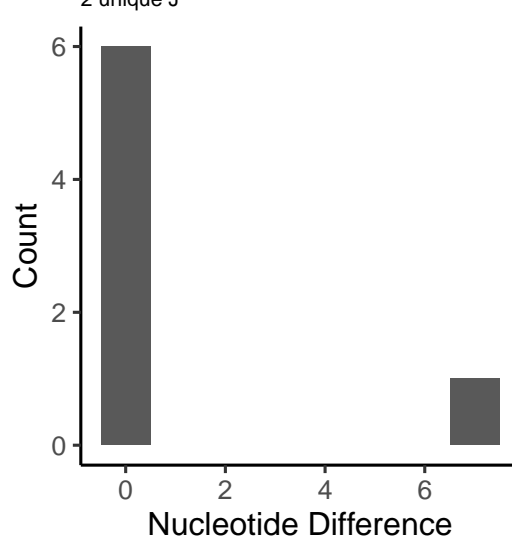
### IGLV4-60\*02

8 sequences assigned  
No exact matches.



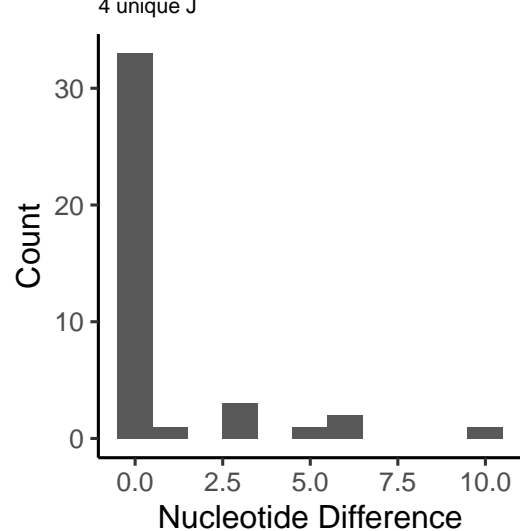
### IGLV5-45\*02

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



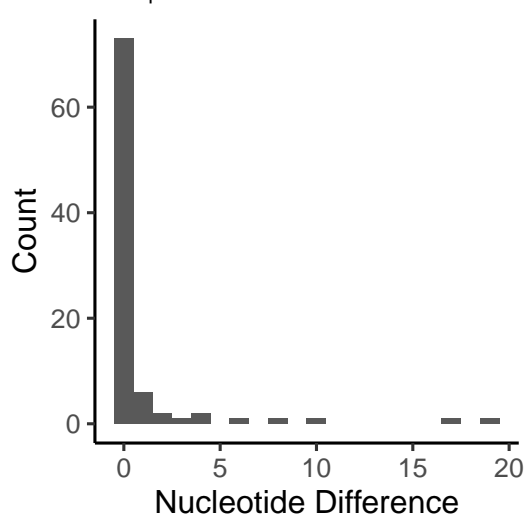
### IGLV6-57\*02

42 sequences assigned  
33 (78.6%) exact matches, in which:  
31 unique CDR3  
4 unique J



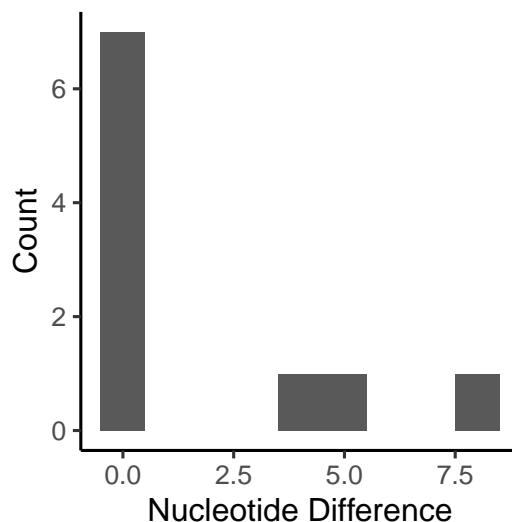
### IGLV4-69\*01

94 sequences assigned  
73 (77.7%) exact matches, in which:  
62 unique CDR3  
4 unique J



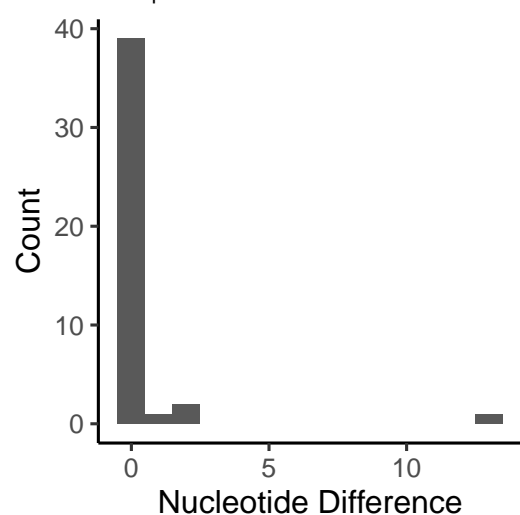
### IGLV5-45\*03

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



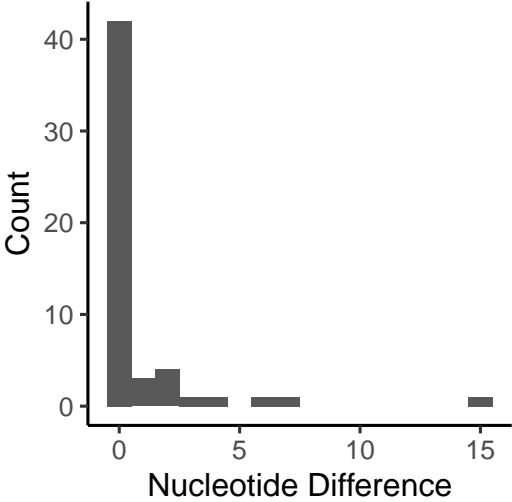
### IGLV6-57\*03

43 sequences assigned  
39 (90.7%) exact matches, in which:  
37 unique CDR3  
3 unique J



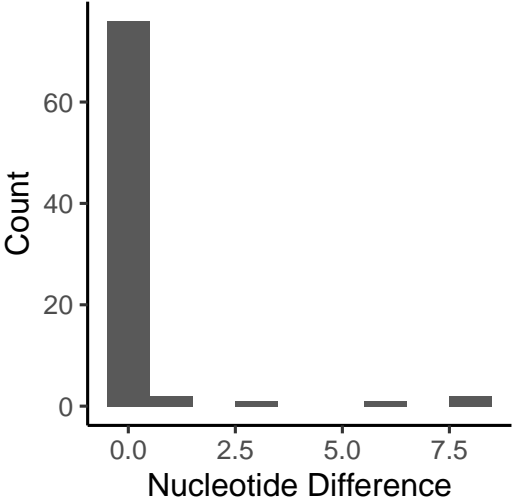
IGLV7-43\*01

54 sequences assigned  
42 (77.8%) exact matches, in which:  
41 unique CDR3  
3 unique J



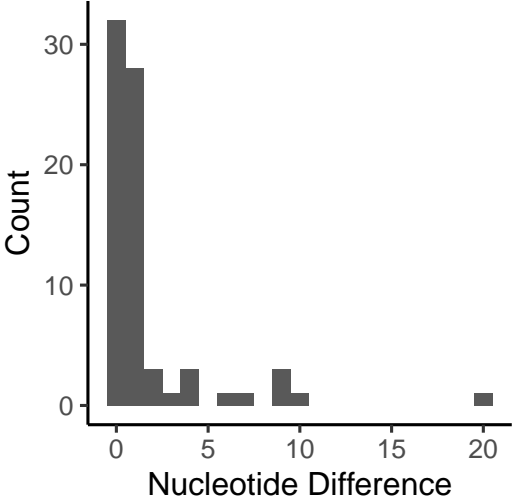
IGLV9-49\*01

82 sequences assigned  
76 (92.7%) exact matches, in which:  
71 unique CDR3  
4 unique J



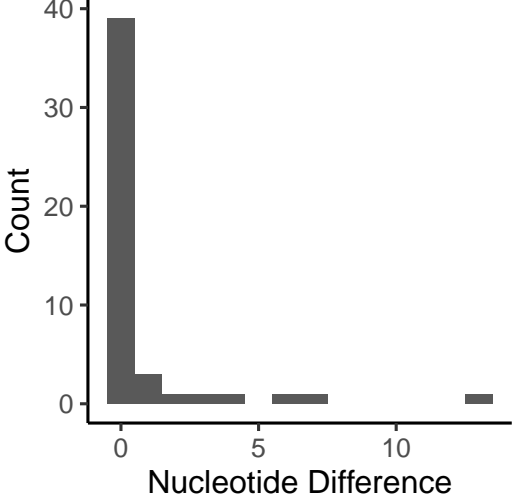
IGLV7-46\*01

77 sequences assigned  
32 (41.6%) exact matches, in which:  
29 unique CDR3  
3 unique J



IGLV8-61\*01

50 sequences assigned  
39 (78%) exact matches, in which:  
37 unique CDR3  
3 unique J



Allele Usage



Warning – no inferred sequences found.