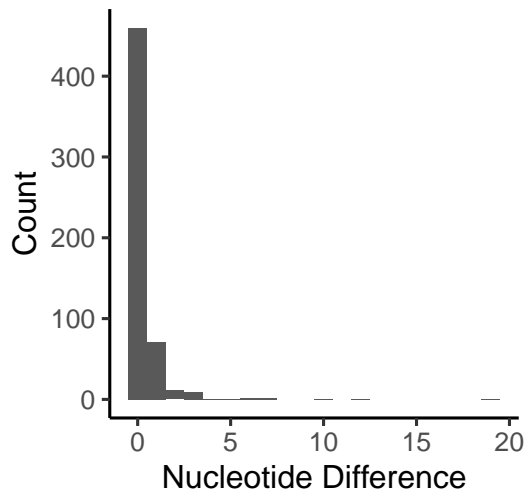


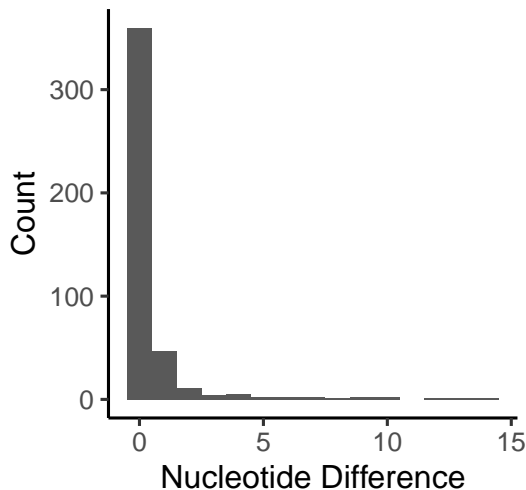
### IGHV1-2\*02

560 sequences assigned  
460 (82.1%) exact matches, in which:  
455 unique CDR3  
6 unique J



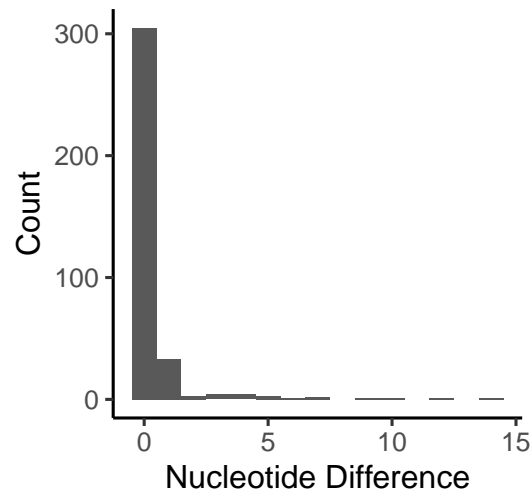
### IGHV1-18\*01

444 sequences assigned  
360 (81.1%) exact matches, in which:  
359 unique CDR3  
6 unique J



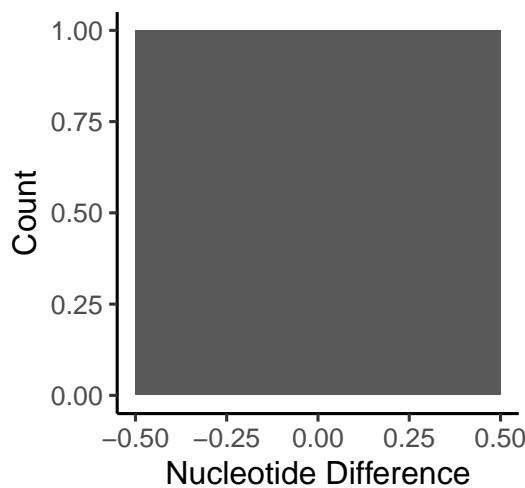
### IGHV1-46\*01

359 sequences assigned  
305 (85%) exact matches, in which:  
303 unique CDR3  
6 unique J



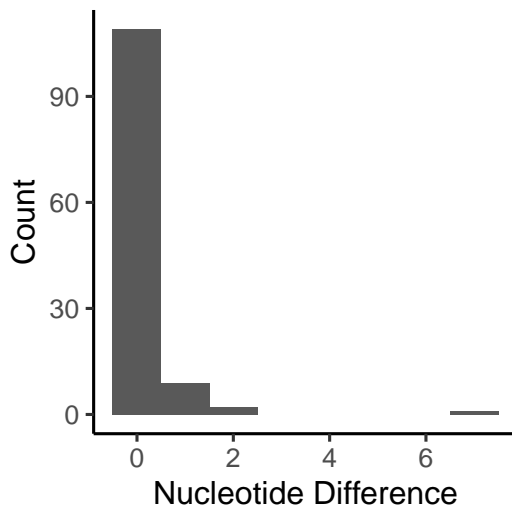
### IGHV1-3\*02

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



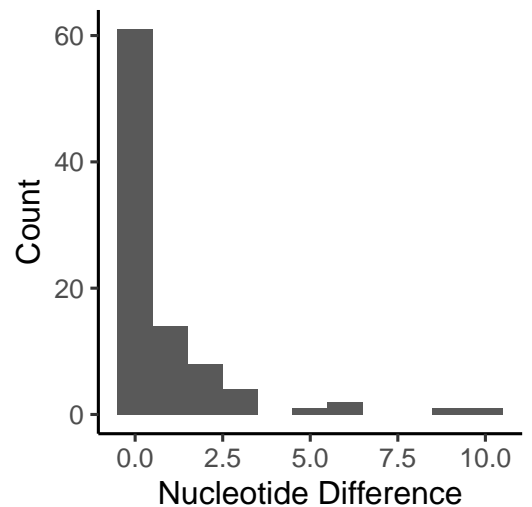
### IGHV1-24\*01

121 sequences assigned  
109 (90.1%) exact matches, in which:  
109 unique CDR3  
6 unique J



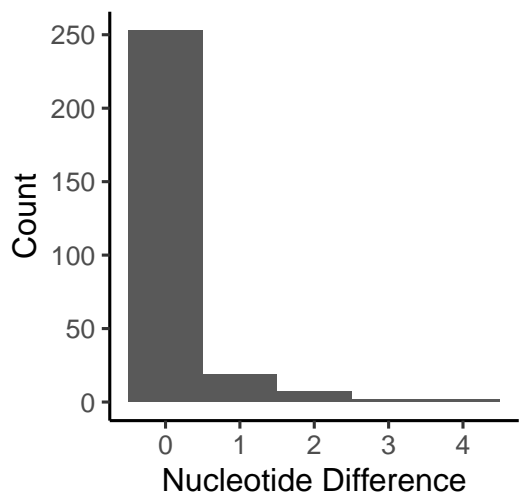
### IGHV1-58\*01

92 sequences assigned  
61 (66.3%) exact matches, in which:  
59 unique CDR3  
5 unique J



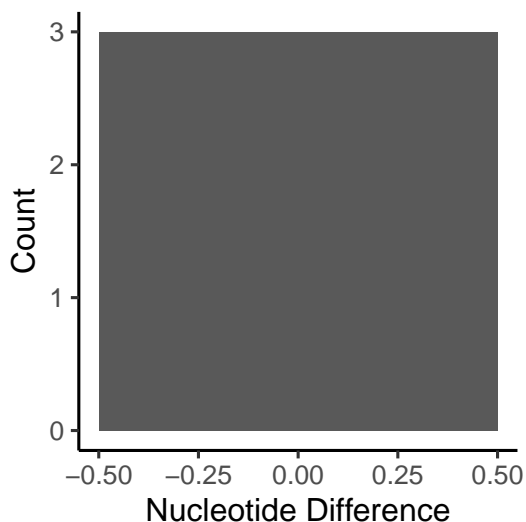
### IGHV1-8\*01

283 sequences assigned  
253 (89.4%) exact matches, in which:  
252 unique CDR3  
6 unique J



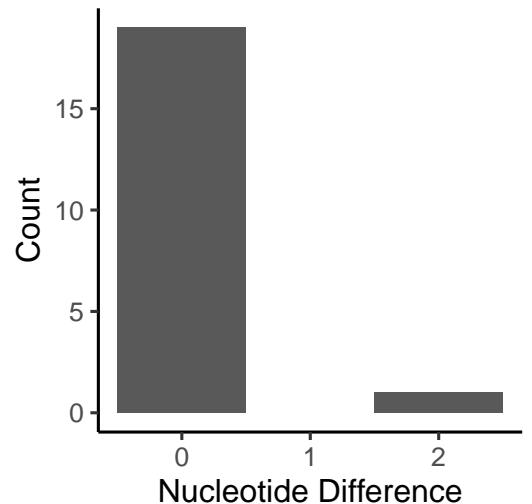
### IGHV1-45\*02

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



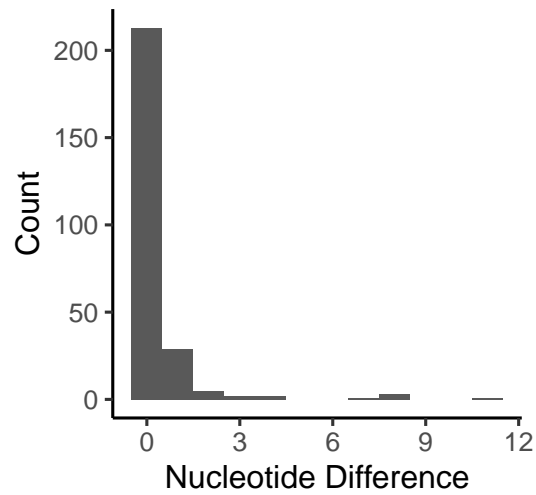
### IGHV1-69-2\*01

20 sequences assigned  
19 (95%) exact matches, in which:  
18 unique CDR3  
4 unique J



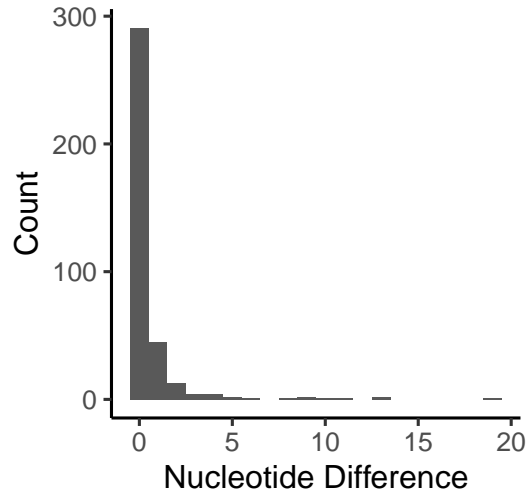
### IGHV2-5\*01

256 sequences assigned  
213 (83.2%) exact matches, in which:  
212 unique CDR3  
6 unique J



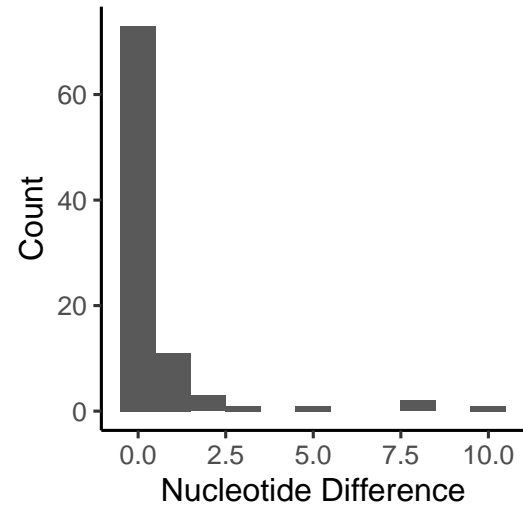
### IGHV3-7\*01

370 sequences assigned  
291 (78.6%) exact matches, in which:  
287 unique CDR3  
6 unique J



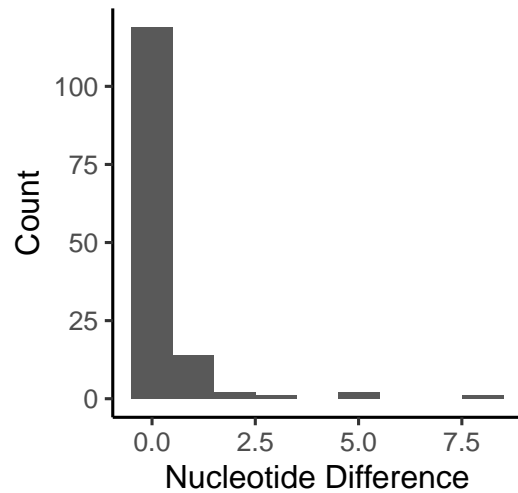
### IGHV3-13\*01

92 sequences assigned  
73 (79.3%) exact matches, in which:  
70 unique CDR3  
5 unique J



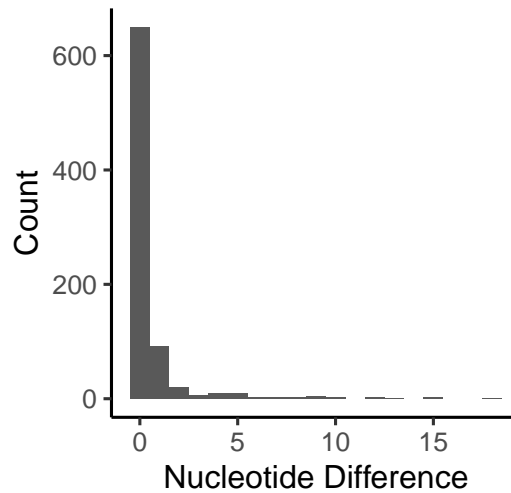
### IGHV2-26\*01

139 sequences assigned  
119 (85.6%) exact matches, in which:  
117 unique CDR3  
5 unique J



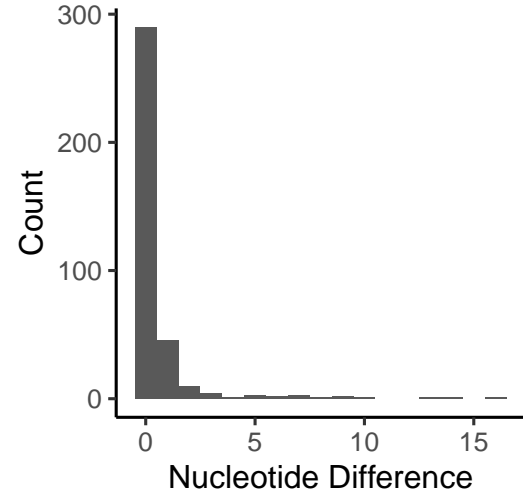
### IGHV3-9\*01

807 sequences assigned  
650 (80.5%) exact matches, in which:  
644 unique CDR3  
6 unique J



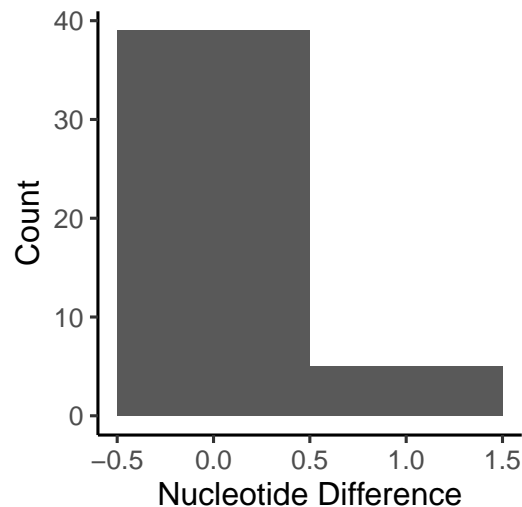
### IGHV3-15\*01

369 sequences assigned  
290 (78.6%) exact matches, in which:  
284 unique CDR3  
6 unique J



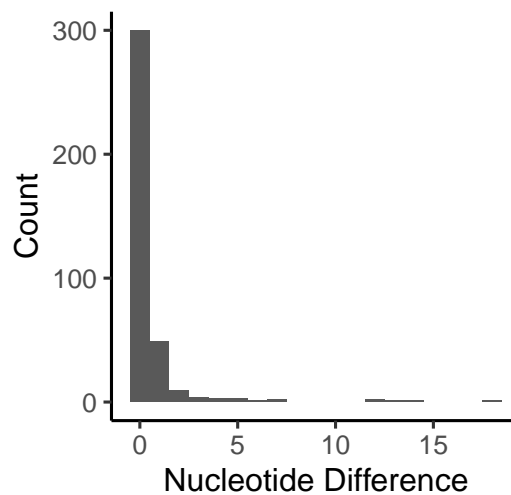
### IGHV2-70\*01

44 sequences assigned  
39 (88.6%) exact matches, in which:  
38 unique CDR3  
5 unique J



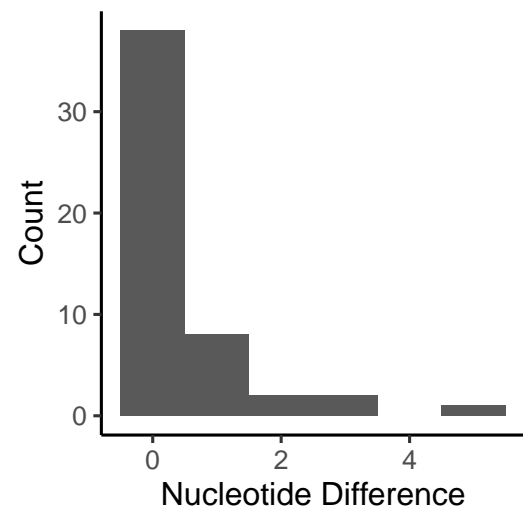
### IGHV3-11\*01

376 sequences assigned  
300 (79.8%) exact matches, in which:  
298 unique CDR3  
6 unique J



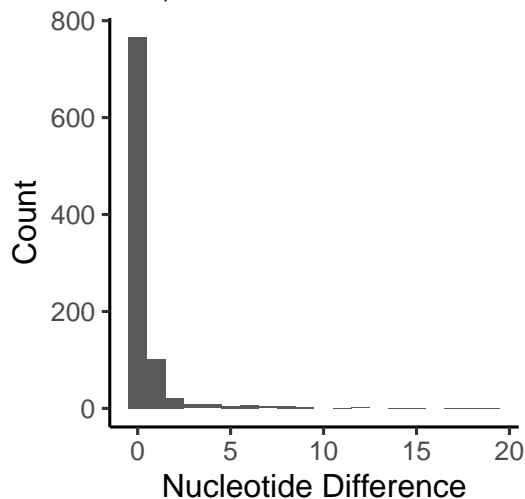
### IGHV3-20\*01

51 sequences assigned  
38 (74.5%) exact matches, in which:  
38 unique CDR3  
5 unique J



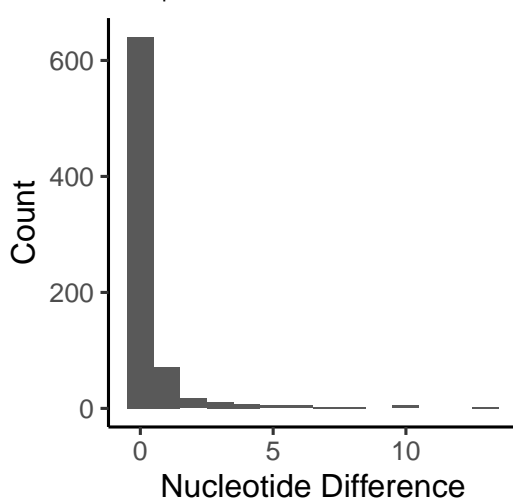
### IGHV3-21\*01

939 sequences assigned  
767 (81.7%) exact matches, in which:  
756 unique CDR3  
6 unique J



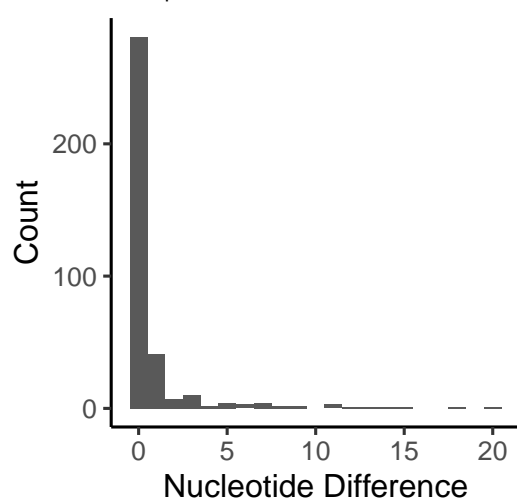
### IGHV3-33\*01

770 sequences assigned  
641 (83.2%) exact matches, in which:  
631 unique CDR3  
6 unique J



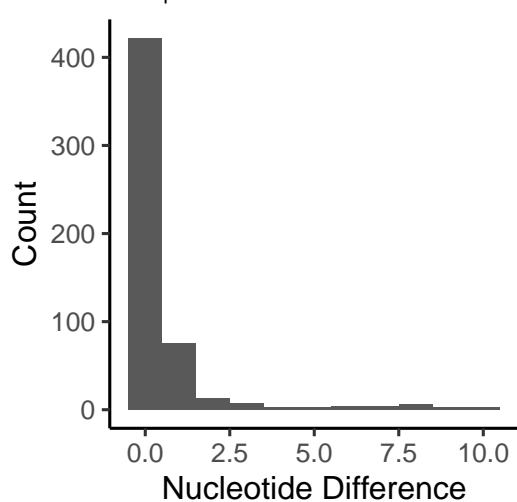
### IGHV3-48\*02

367 sequences assigned  
281 (76.6%) exact matches, in which:  
279 unique CDR3  
6 unique J



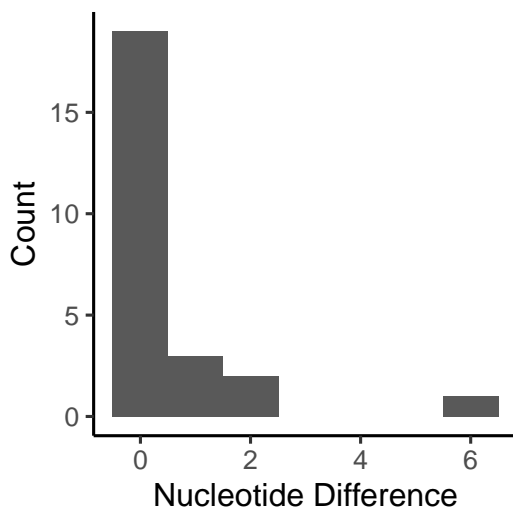
### IGHV3-30-3\*01

545 sequences assigned  
422 (77.4%) exact matches, in which:  
416 unique CDR3  
6 unique J



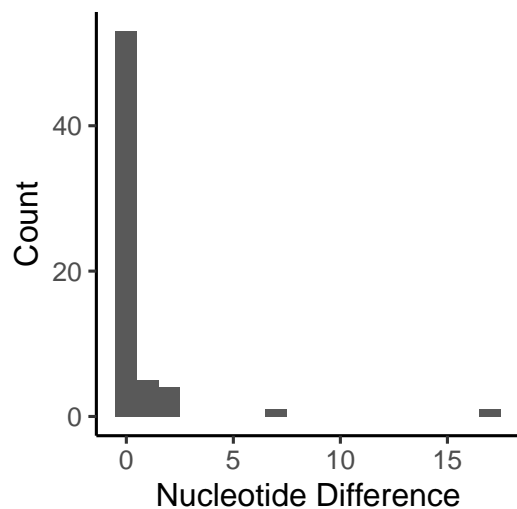
### IGHV3-43\*01

25 sequences assigned  
19 (76%) exact matches, in which:  
19 unique CDR3  
4 unique J



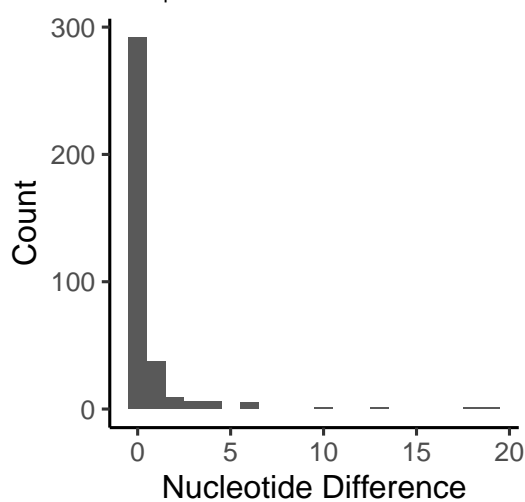
### IGHV3-49\*03

64 sequences assigned  
53 (82.8%) exact matches, in which:  
53 unique CDR3  
6 unique J



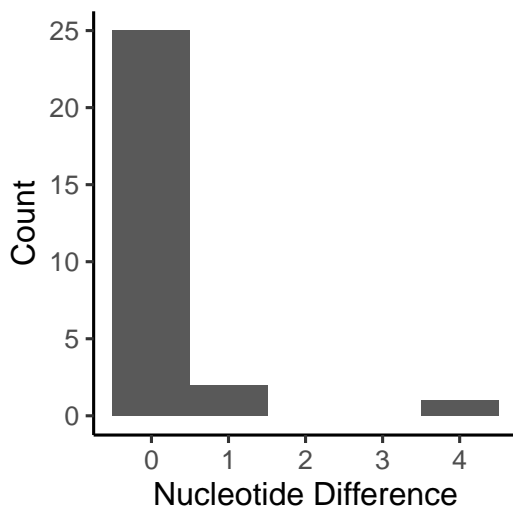
### IGHV3-30\*01

359 sequences assigned  
292 (81.3%) exact matches, in which:  
286 unique CDR3  
6 unique J



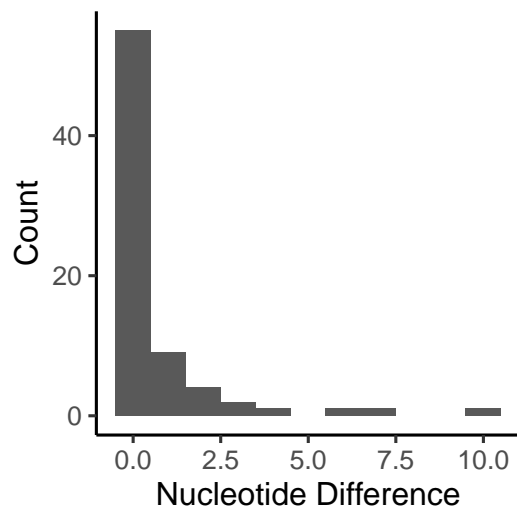
### IGHV3-43\*01\_C237T

28 sequences assigned  
25 (89.3%) exact matches, in which:  
24 unique CDR3  
4 unique J



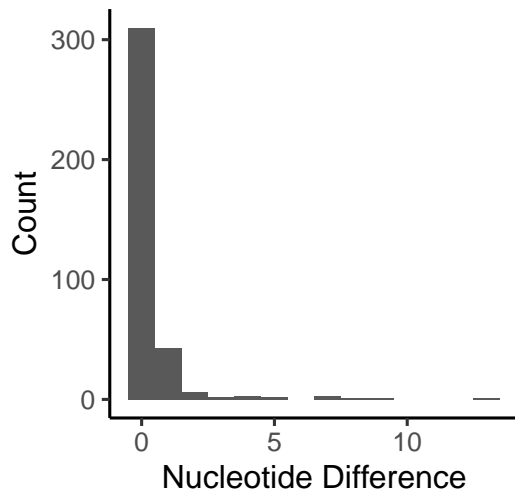
### IGHV3-49\*05

74 sequences assigned  
55 (74.3%) exact matches, in which:  
54 unique CDR3  
5 unique J



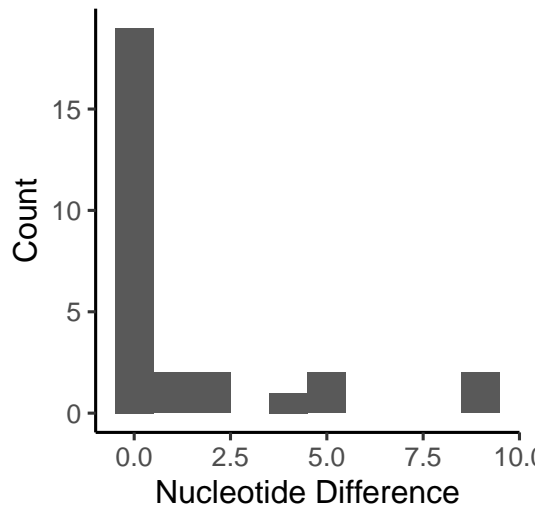
### IGHV3-53\*01

372 sequences assigned  
310 (83.3%) exact matches, in which:  
306 unique CDR3  
6 unique J



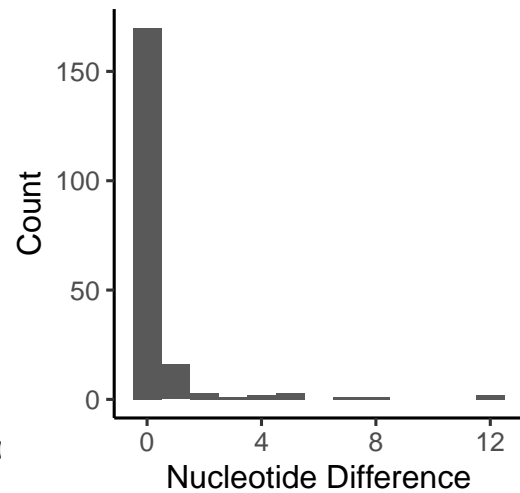
### IGHV3-72\*01

28 sequences assigned  
19 (67.9%) exact matches, in which:  
19 unique CDR3  
3 unique J



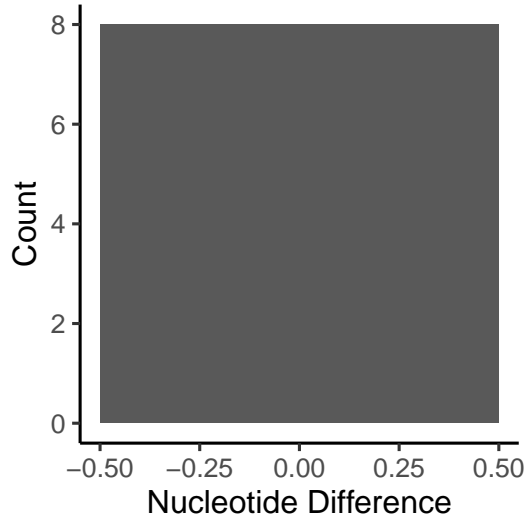
### IGHV4-4\*07

199 sequences assigned  
170 (85.4%) exact matches, in which:  
170 unique CDR3  
6 unique J



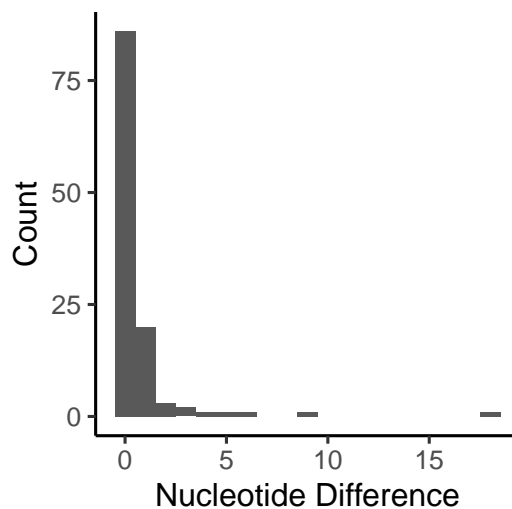
### IGHV3-64\*02

8 sequences assigned  
8 (100%) exact matches, in which:  
8 unique CDR3  
3 unique J



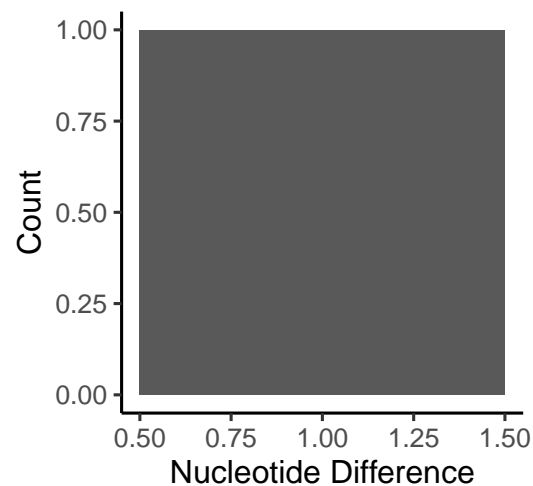
### IGHV3-73\*02

116 sequences assigned  
86 (74.1%) exact matches, in which:  
86 unique CDR3  
5 unique J



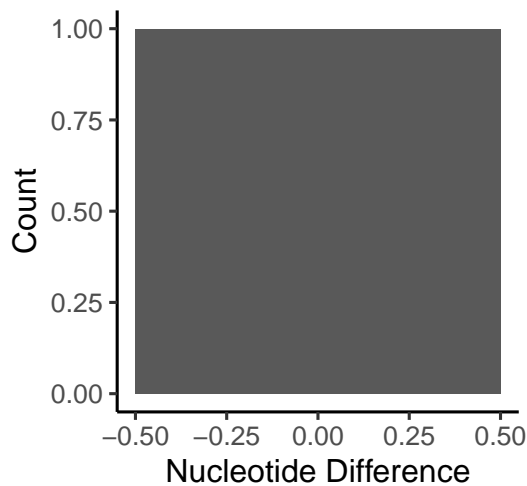
### IGHV4-28\*02

1 sequences assigned  
No exact matches.



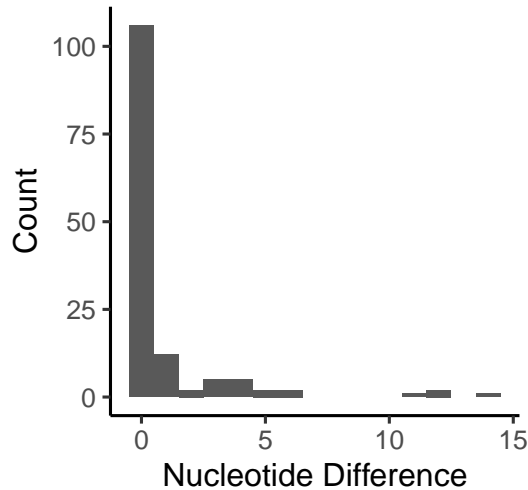
### IGHV3-69-1\*01

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



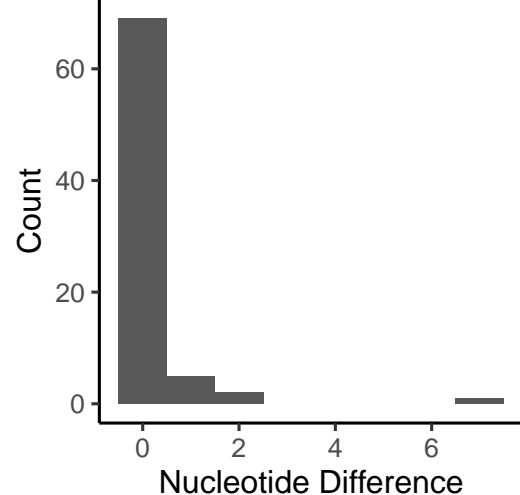
### IGHV3-74\*01

138 sequences assigned  
106 (76.8%) exact matches, in which:  
105 unique CDR3  
5 unique J



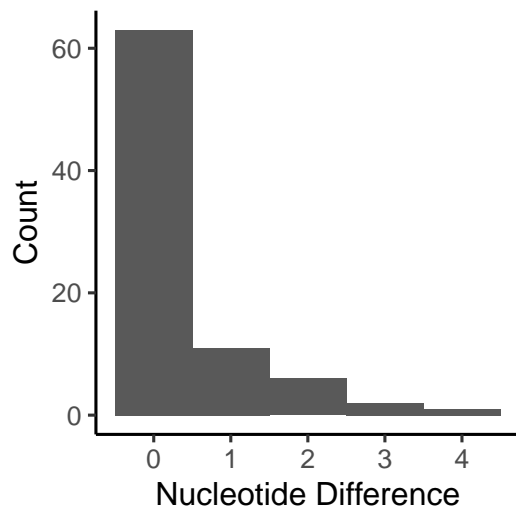
### IGHV4-30-2\*01

77 sequences assigned  
69 (89.6%) exact matches, in which:  
69 unique CDR3  
6 unique J



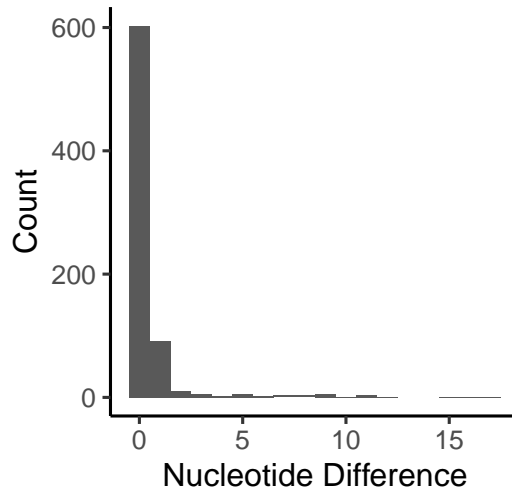
### IGHV4-30-4\*01

83 sequences assigned  
63 (75.9%) exact matches, in which:  
62 unique CDR3  
5 unique J



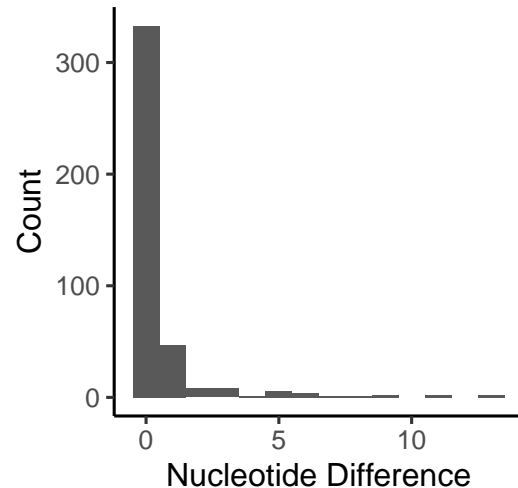
### IGHV4-39\*01

742 sequences assigned  
603 (81.3%) exact matches, in which:  
600 unique CDR3  
6 unique J



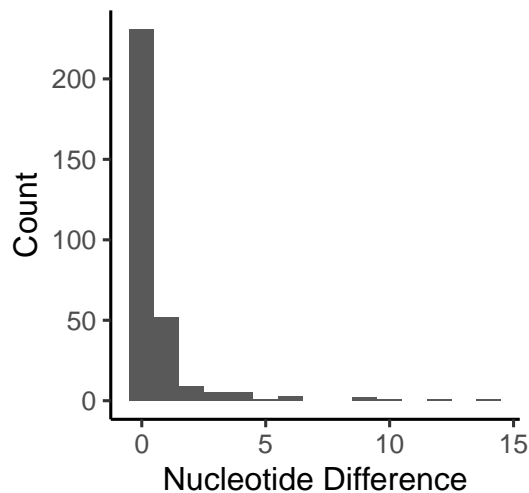
### IGHV5-51\*01

417 sequences assigned  
333 (79.9%) exact matches, in which:  
329 unique CDR3  
6 unique J



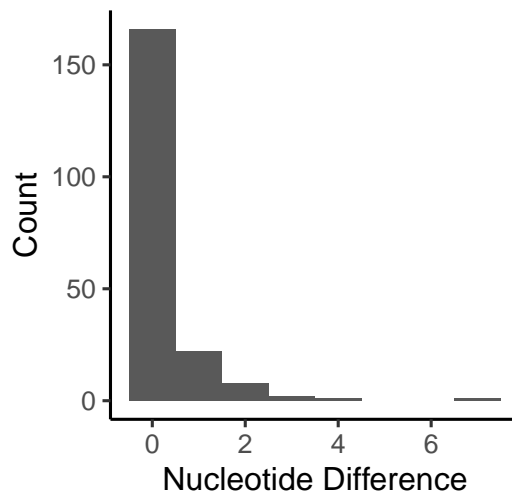
### IGHV4-31\*03

311 sequences assigned  
231 (74.3%) exact matches, in which:  
231 unique CDR3  
6 unique J



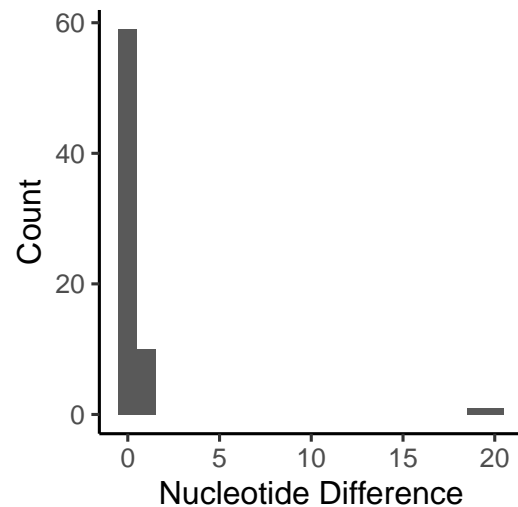
### IGHV4-59\*01

201 sequences assigned  
166 (82.6%) exact matches, in which:  
166 unique CDR3  
6 unique J



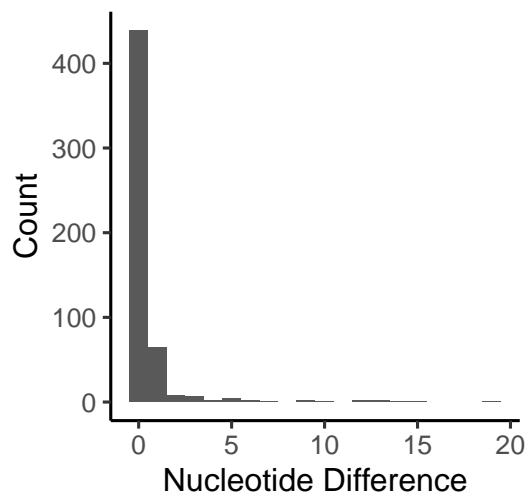
### IGHV6-1\*01

71 sequences assigned  
59 (83.1%) exact matches, in which:  
58 unique CDR3  
5 unique J



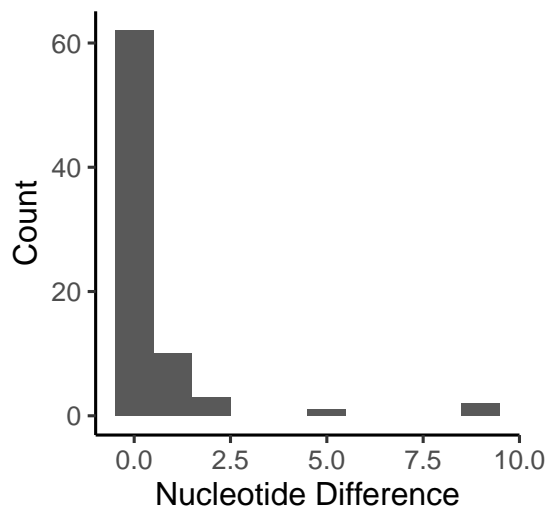
### IGHV4-34\*01

536 sequences assigned  
439 (81.9%) exact matches, in which:  
435 unique CDR3  
6 unique J



### IGHV4-61\*01

78 sequences assigned  
62 (79.5%) exact matches, in which:  
62 unique CDR3  
6 unique J





Warning – no inferred sequences found.