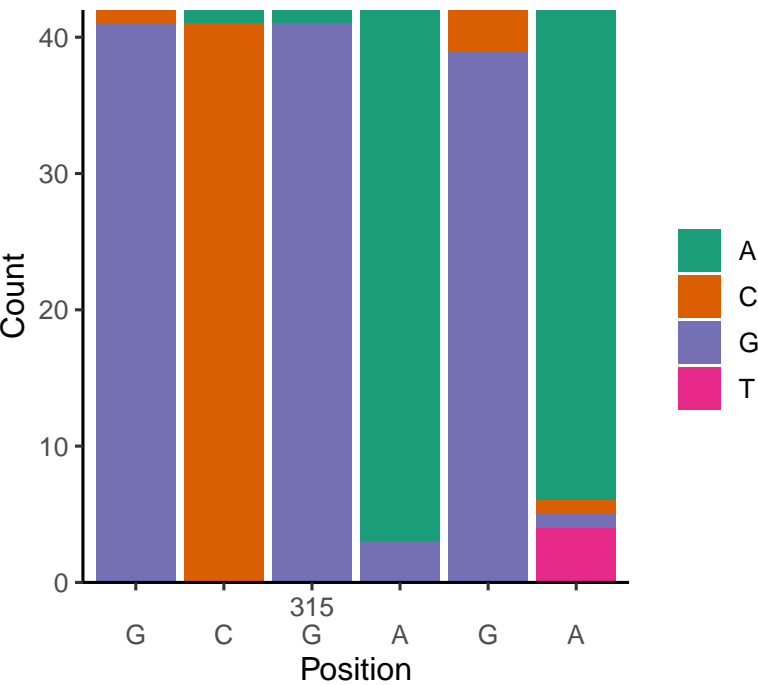
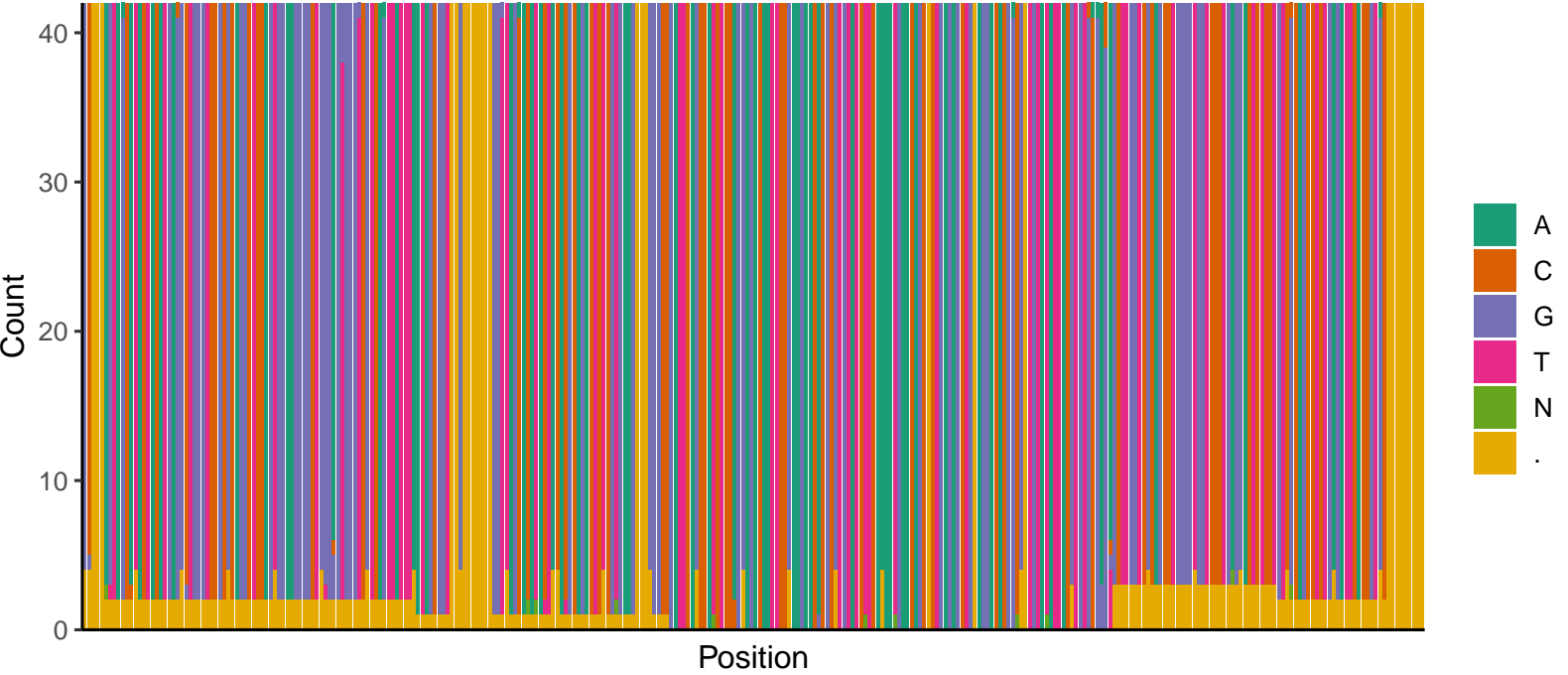


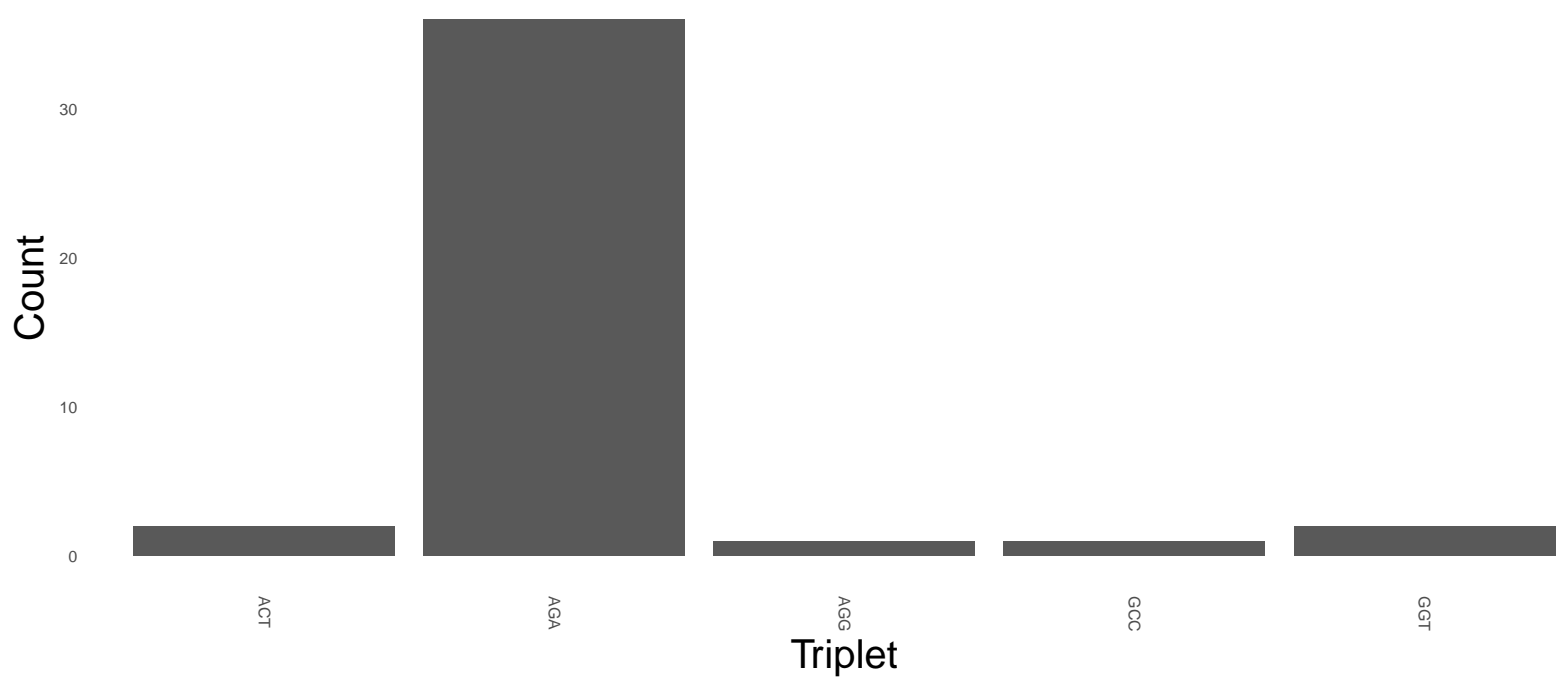
Gene IGHV3-66\*02\_G303A



Gene IGHV3-66\*02\_G303A

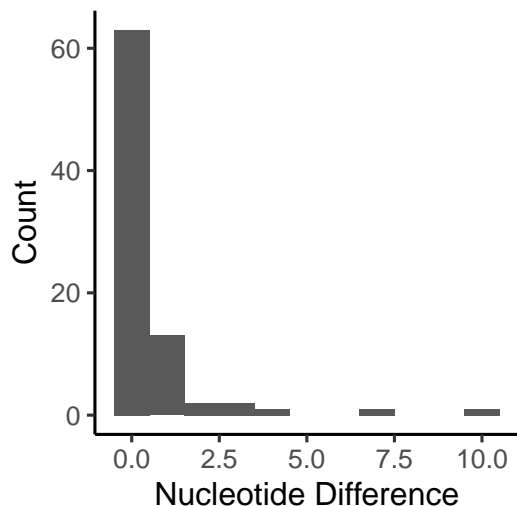


IGHV3-66\*02\_G303A- Final 3 nucleotides as a triplet



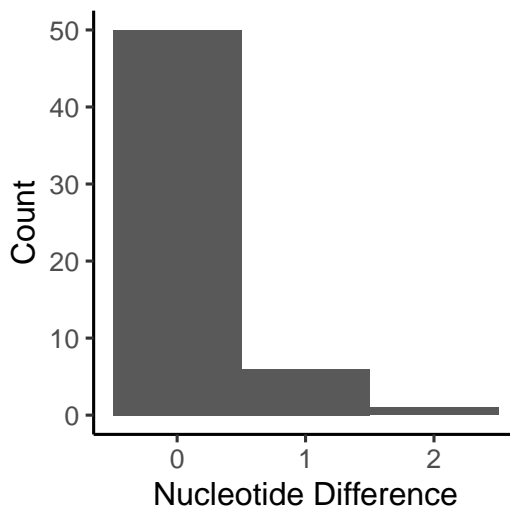
## IGHV1-2\*02

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



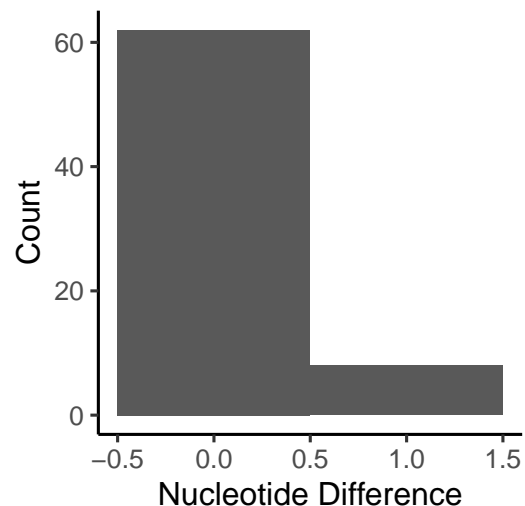
## IGHV1-8\*01

58 sequences assigned  
50 (86.2%) exact matches, in which:  
48 unique CDR3  
4 unique J



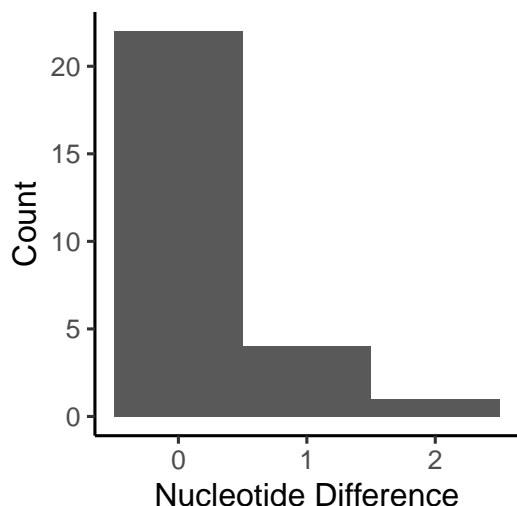
## IGHV1-46\*01

71 sequences assigned  
62 (87.3%) exact matches, in which:  
62 unique CDR3  
6 unique J



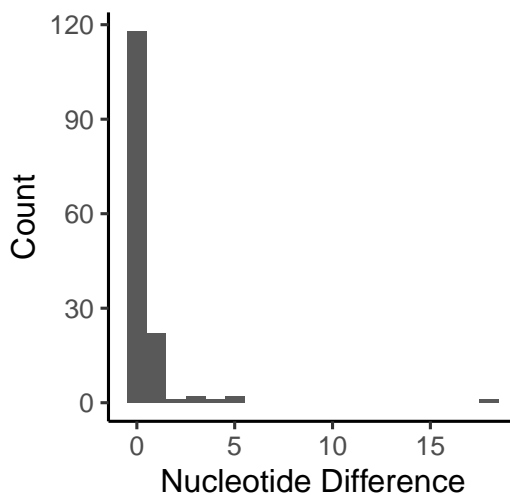
## IGHV1-2\*04

27 sequences assigned  
22 (81.5%) exact matches, in which:  
22 unique CDR3  
4 unique J



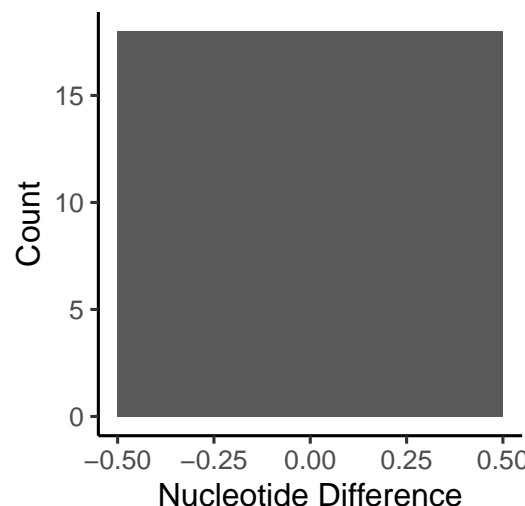
## IGHV1-18\*01

148 sequences assigned  
118 (79.7%) exact matches, in which:  
115 unique CDR3  
6 unique J



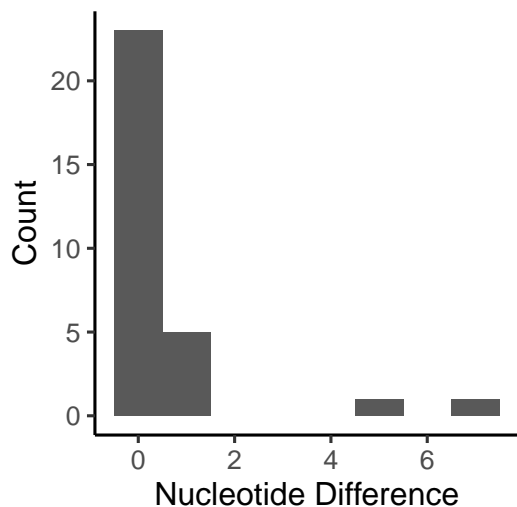
## IGHV1-58\*01

18 sequences assigned  
18 (100%) exact matches, in which:  
18 unique CDR3  
4 unique J



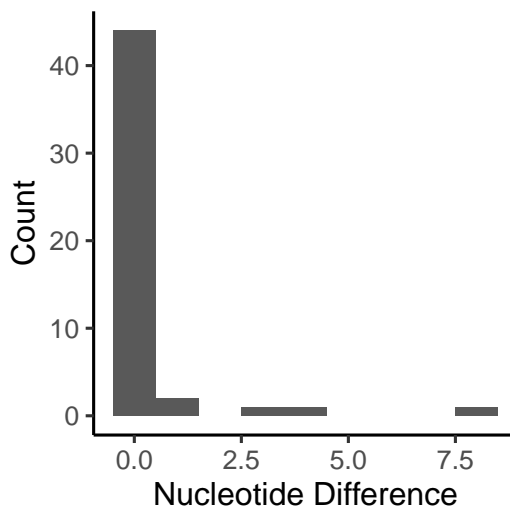
## IGHV1-3\*01

30 sequences assigned  
23 (76.7%) exact matches, in which:  
23 unique CDR3  
4 unique J



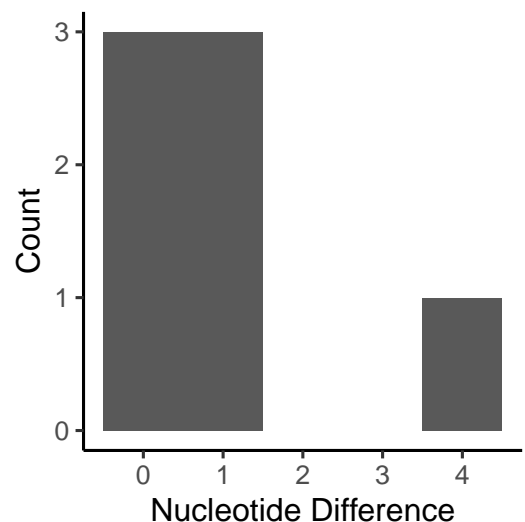
## IGHV1-24\*01

49 sequences assigned  
44 (89.8%) exact matches, in which:  
44 unique CDR3  
4 unique J



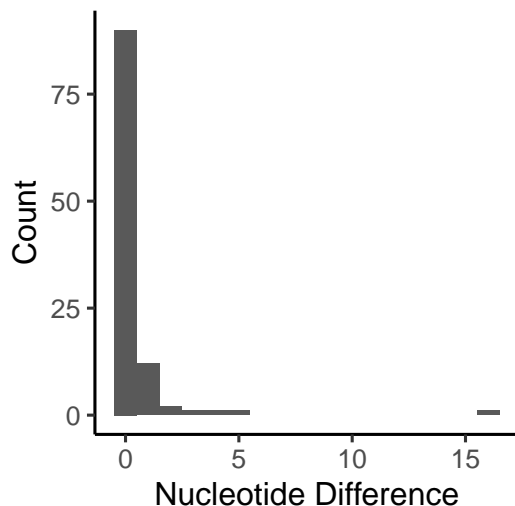
## IGHV1-58\*02

7 sequences assigned  
3 (42.9%) exact matches, in which:  
3 unique CDR3  
2 unique J



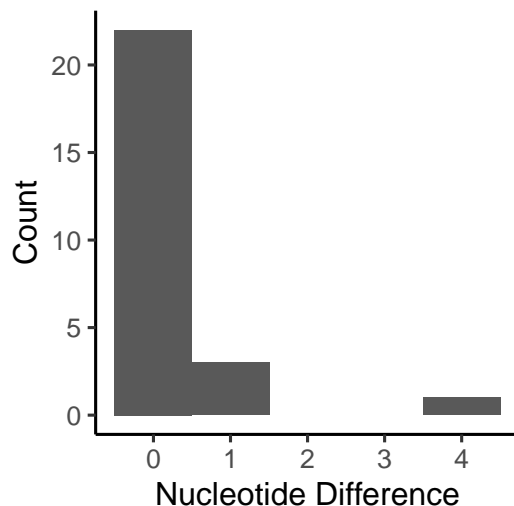
### IGHV1-69\*04

110 sequences assigned  
90 (81.8%) exact matches, in which:  
90 unique CDR3  
5 unique J



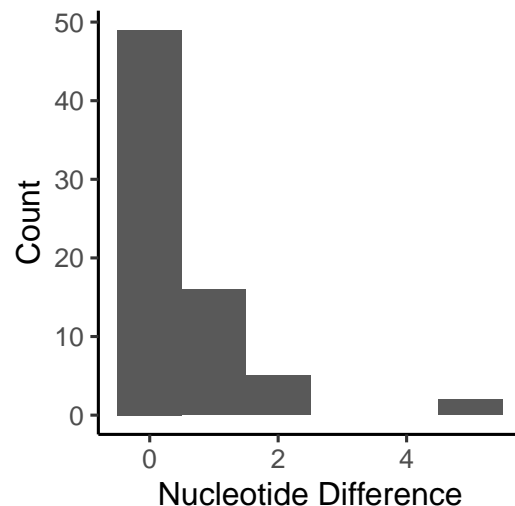
### IGHV2-26\*01

26 sequences assigned  
22 (84.6%) exact matches, in which:  
22 unique CDR3  
5 unique J



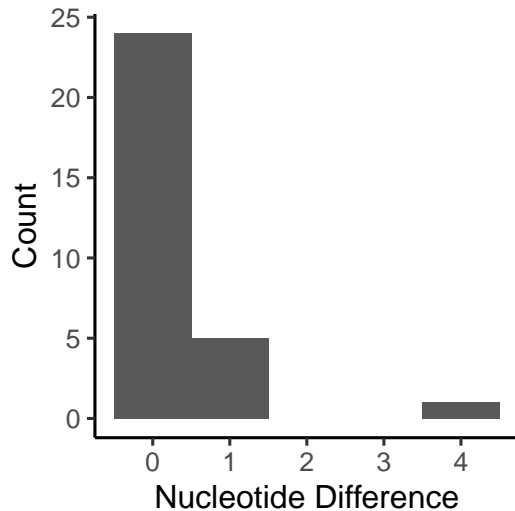
### IGHV3-7\*01

72 sequences assigned  
49 (68.1%) exact matches, in which:  
48 unique CDR3  
5 unique J



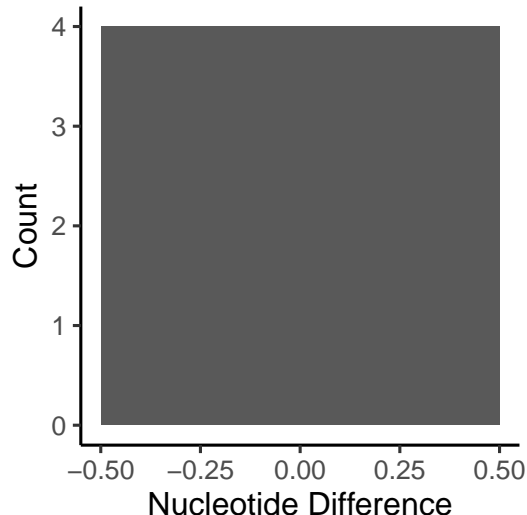
### IGHV2-5\*01

30 sequences assigned  
24 (80%) exact matches, in which:  
24 unique CDR3  
5 unique J



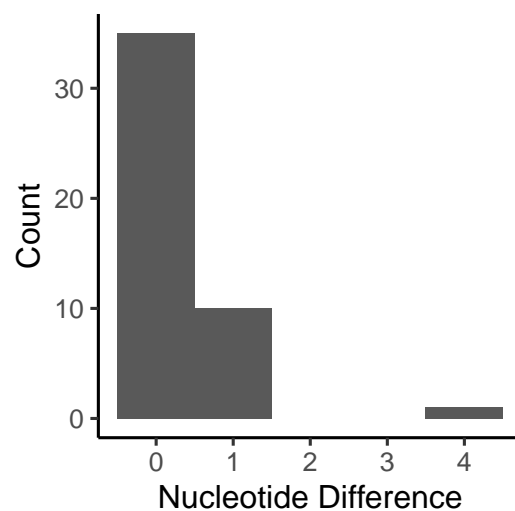
### IGHV2-70\*01

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



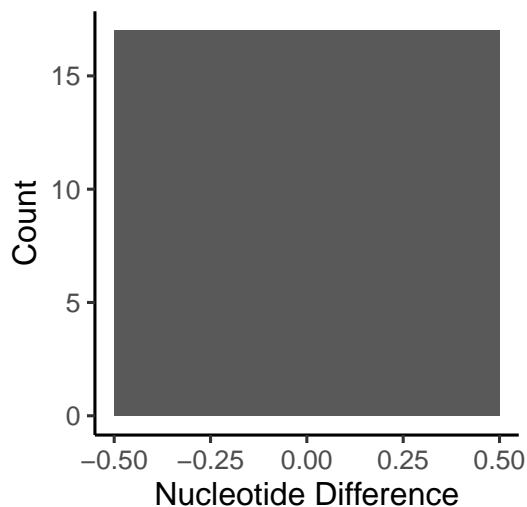
### IGHV3-7\*03

46 sequences assigned  
35 (76.1%) exact matches, in which:  
34 unique CDR3  
4 unique J



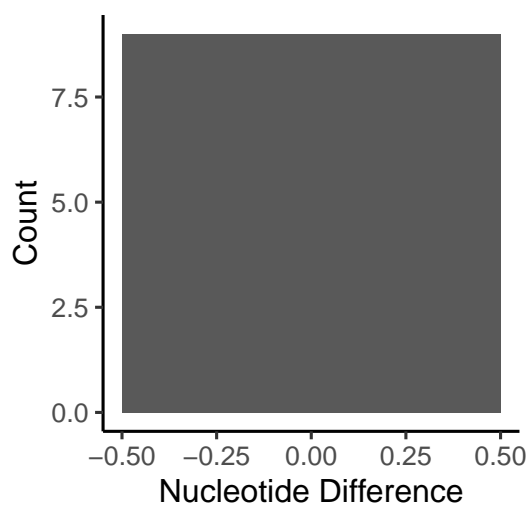
### IGHV2-5\*02

17 sequences assigned  
17 (100%) exact matches, in which:  
16 unique CDR3  
4 unique J



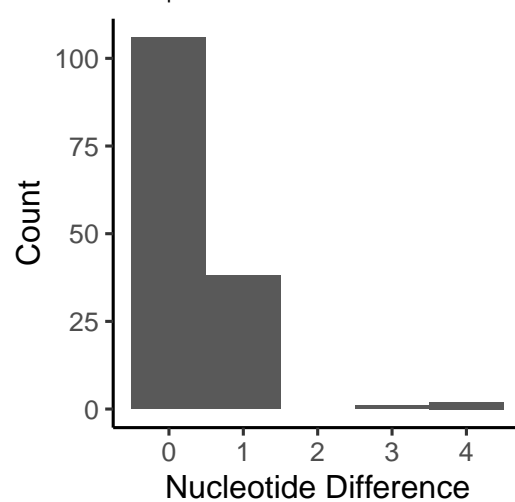
### IGHV2-70\*15

9 sequences assigned  
9 (100%) exact matches, in which:  
9 unique CDR3  
3 unique J



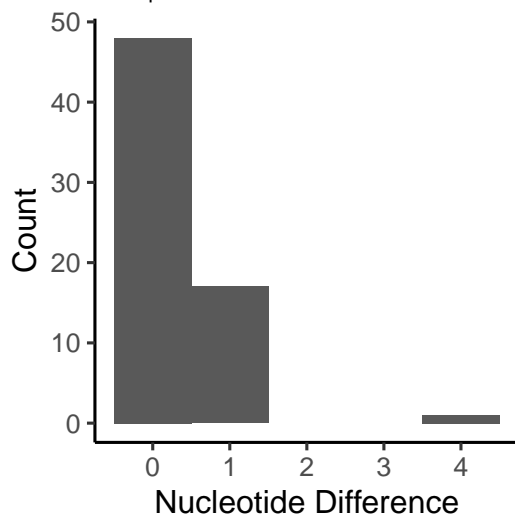
### IGHV3-9\*01

147 sequences assigned  
106 (72.1%) exact matches, in which:  
104 unique CDR3  
6 unique J



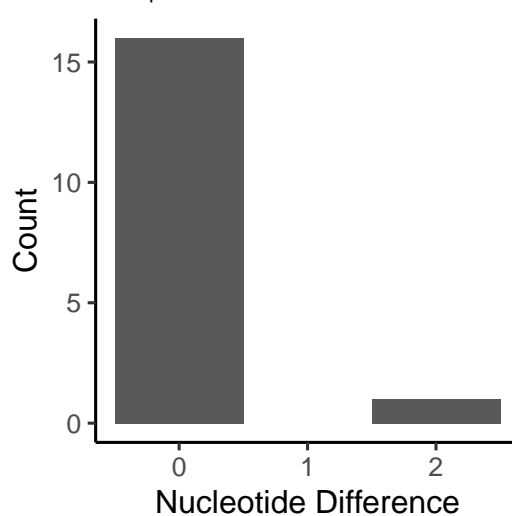
### IGHV3-11\*01

66 sequences assigned  
48 (72.7%) exact matches, in which:  
47 unique CDR3  
5 unique J



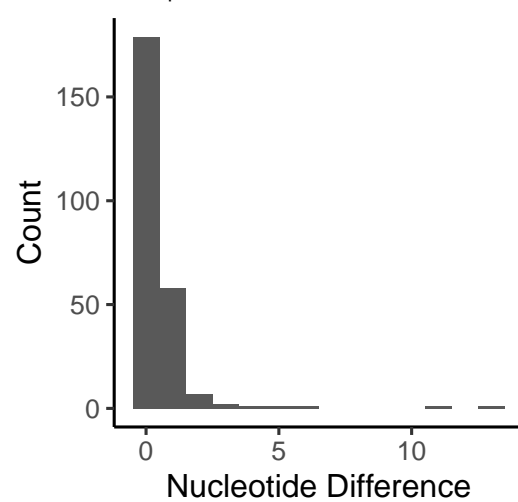
### IGHV3-13\*04

17 sequences assigned  
16 (94.1%) exact matches, in which:  
16 unique CDR3  
4 unique J



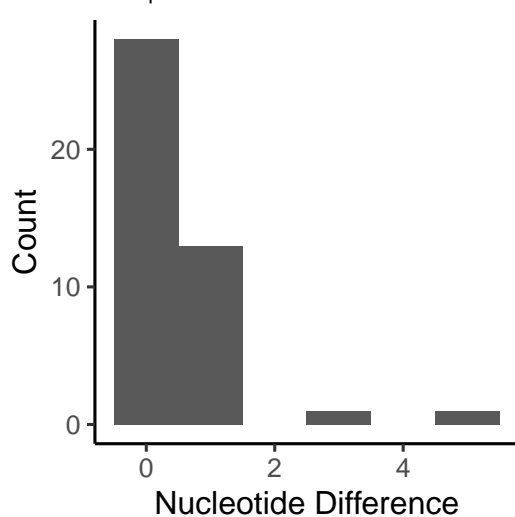
### IGHV3-21\*01

251 sequences assigned  
179 (71.3%) exact matches, in which:  
177 unique CDR3  
6 unique J



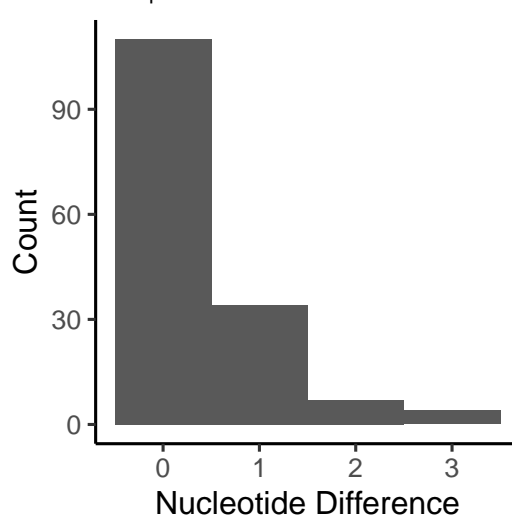
### IGHV3-11\*05

43 sequences assigned  
28 (65.1%) exact matches, in which:  
28 unique CDR3  
5 unique J



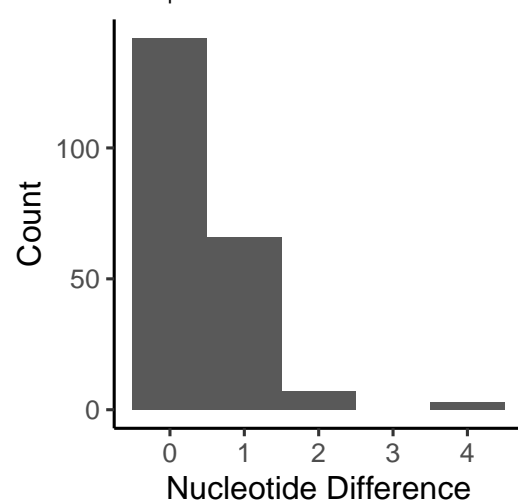
### IGHV3-15\*01

155 sequences assigned  
110 (71%) exact matches, in which:  
108 unique CDR3  
6 unique J



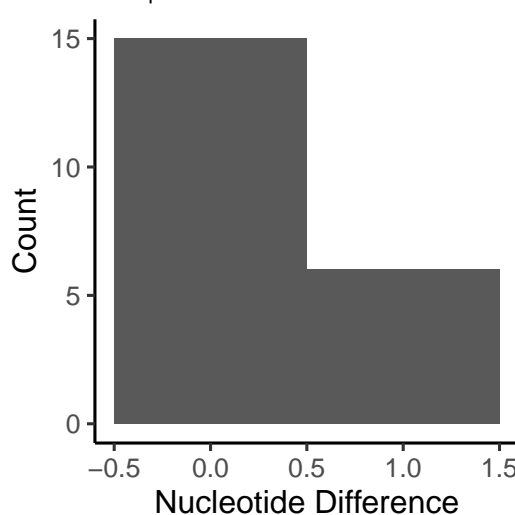
### IGHV3-23\*04

218 sequences assigned  
142 (65.1%) exact matches, in which:  
141 unique CDR3  
6 unique J



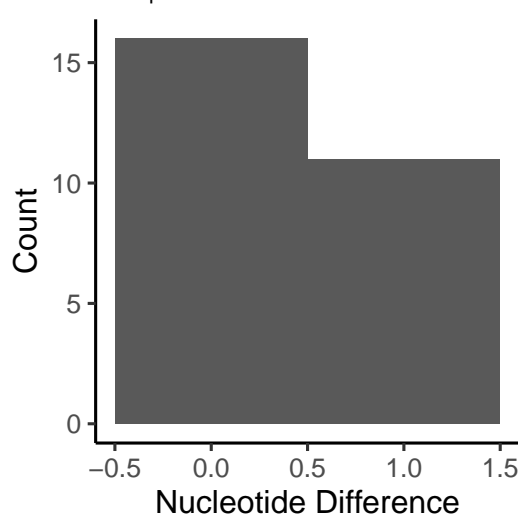
### IGHV3-13\*01

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



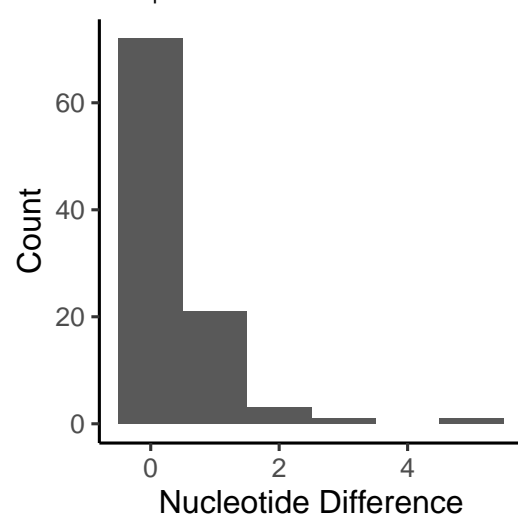
### IGHV3-20\*04

27 sequences assigned  
16 (59.3%) exact matches, in which:  
16 unique CDR3  
5 unique J



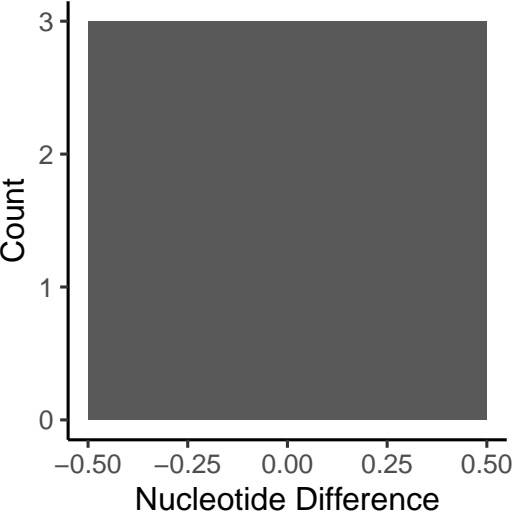
### IGHV3-33\*01

98 sequences assigned  
72 (73.5%) exact matches, in which:  
68 unique CDR3  
6 unique J



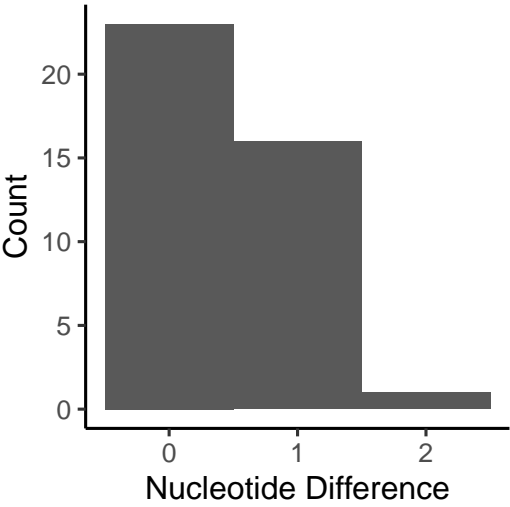
IGHV3-43\*01

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



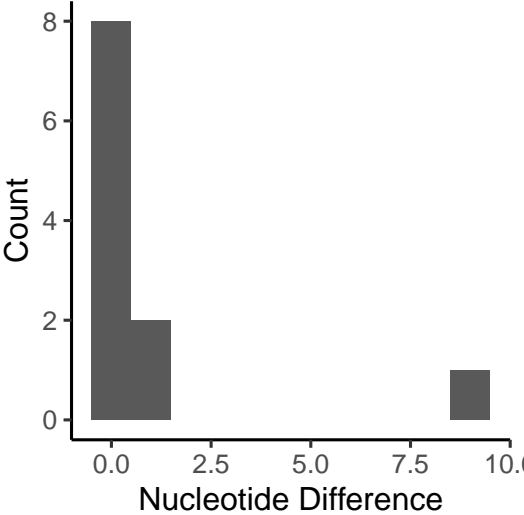
IGHV3-49\*03

40 sequences assigned  
23 (57.5%) exact matches, in which:  
23 unique CDR3  
4 unique J



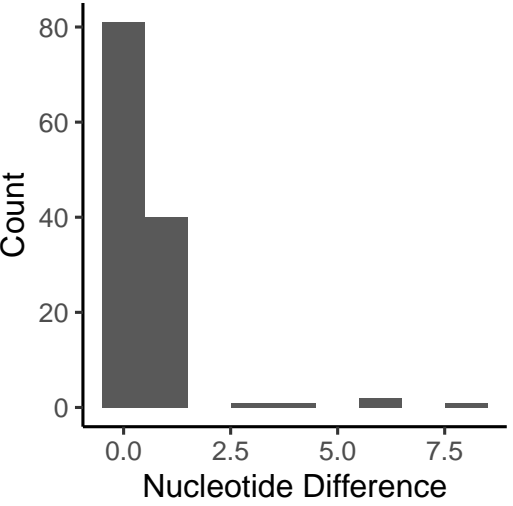
IGHV3-53\*04

11 sequences assigned  
8 (72.7%) exact matches, in which:  
8 unique CDR3  
3 unique J



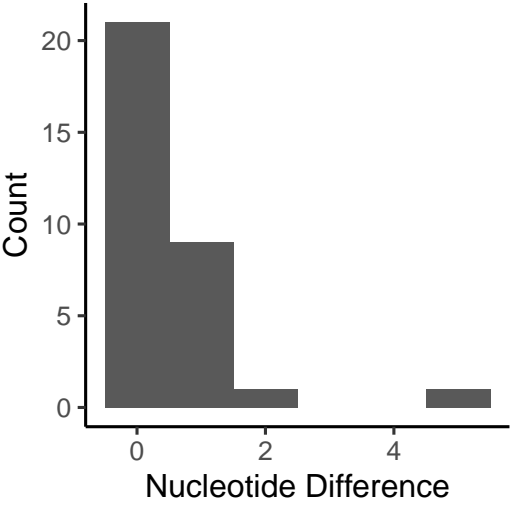
IGHV3-48\*03

126 sequences assigned  
81 (64.3%) exact matches, in which:  
81 unique CDR3  
5 unique J



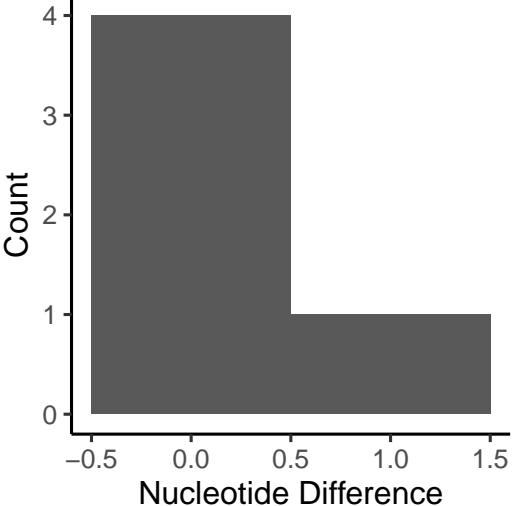
IGHV3-49\*04

32 sequences assigned  
21 (65.6%) exact matches, in which:  
21 unique CDR3  
4 unique J



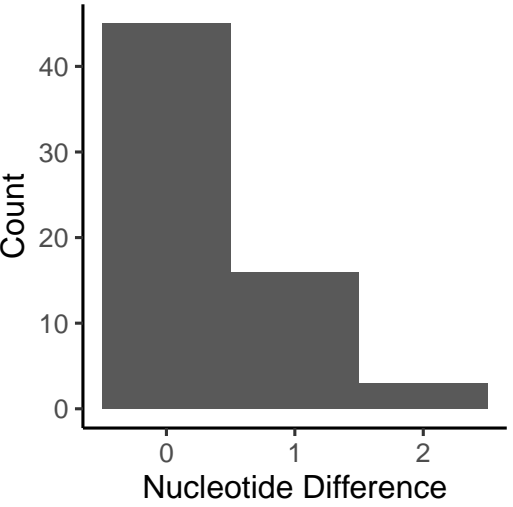
IGHV3-64\*01

5 sequences assigned  
4 (80%) exact matches, in which:  
4 unique CDR3  
2 unique J



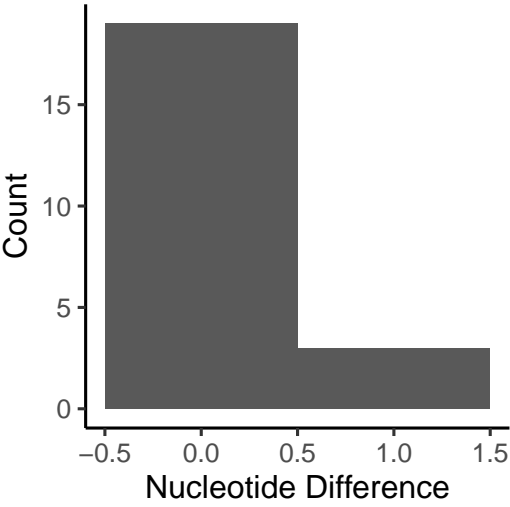
IGHV3-48\*04

64 sequences assigned  
45 (70.3%) exact matches, in which:  
45 unique CDR3  
5 unique J



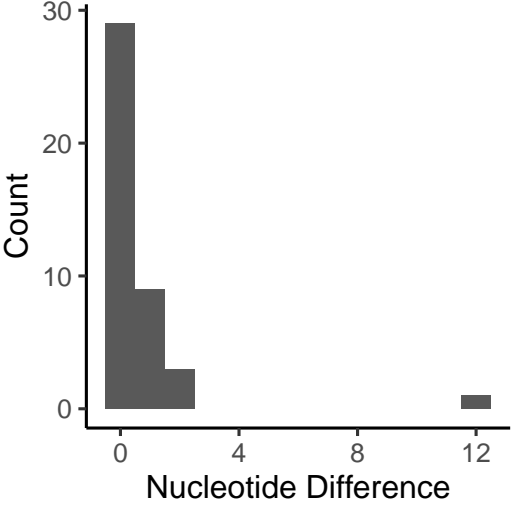
IGHV3-53\*02

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



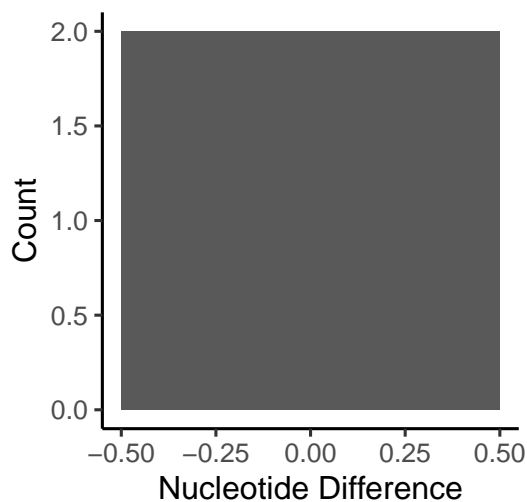
IGHV3-66\*02\_G303A

42 sequences assigned  
29 (69%) exact matches, in which:  
29 unique CDR3  
5 unique J



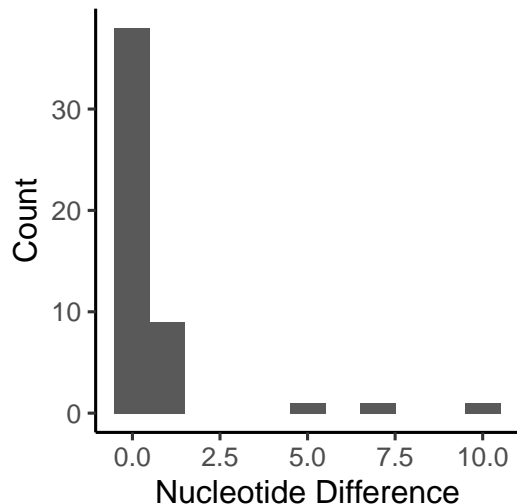
### IGHV3-72\*01

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



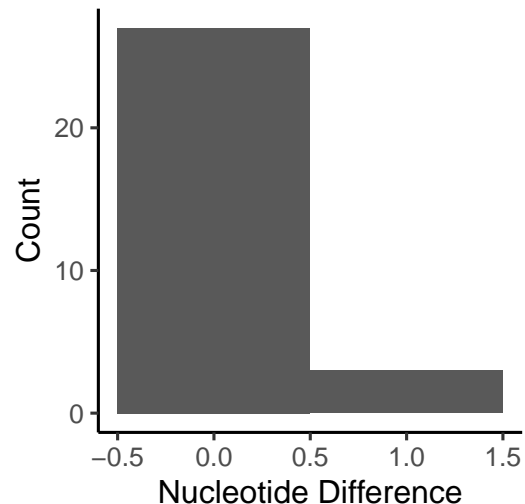
### IGHV3-74\*01

50 sequences assigned  
38 (76%) exact matches, in which:  
35 unique CDR3  
5 unique J



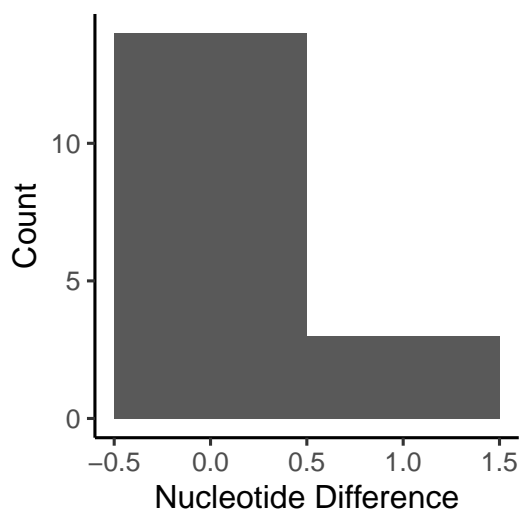
### IGHV3-64D\*06

30 sequences assigned  
27 (90%) exact matches, in which:  
25 unique CDR3  
6 unique J



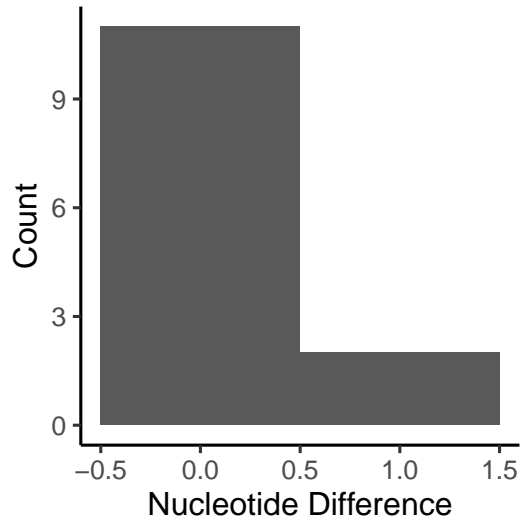
### IGHV3-73\*01

17 sequences assigned  
14 (82.4%) exact matches, in which:  
14 unique CDR3  
4 unique J



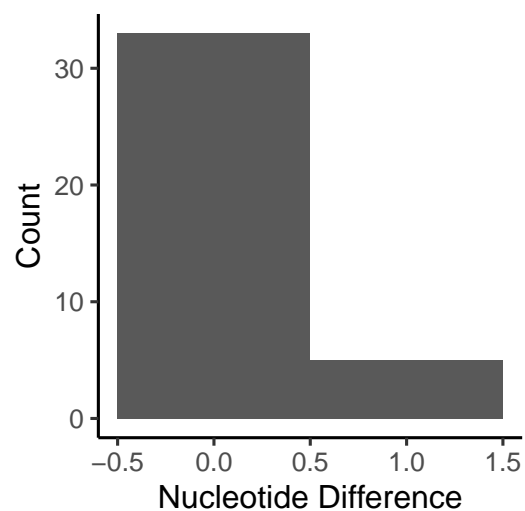
### IGHV3-43D\*03

13 sequences assigned  
11 (84.6%) exact matches, in which:  
10 unique CDR3  
3 unique J



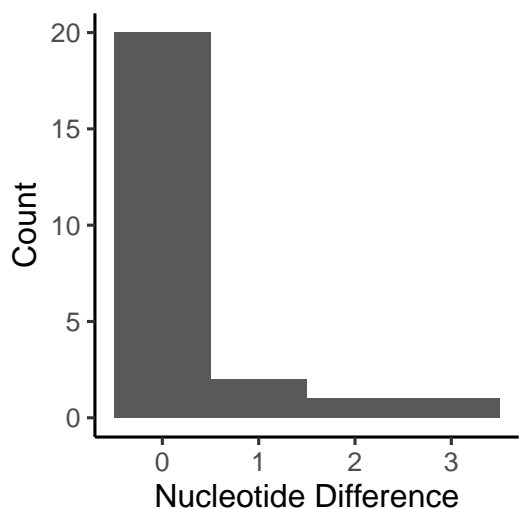
### IGHV4-4\*02

38 sequences assigned  
33 (86.8%) exact matches, in which:  
33 unique CDR3  
6 unique J



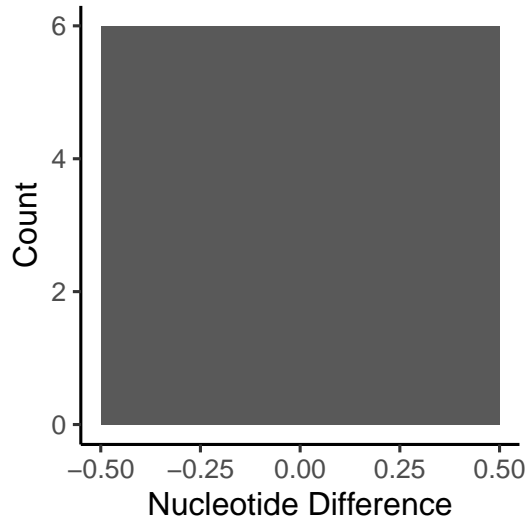
### IGHV3-73\*02

24 sequences assigned  
20 (83.3%) exact matches, in which:  
20 unique CDR3  
3 unique J



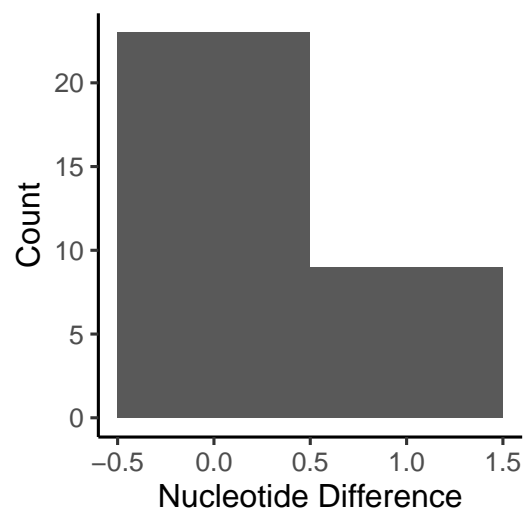
### IGHV3-43D\*04

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



### IGHV4-4\*07

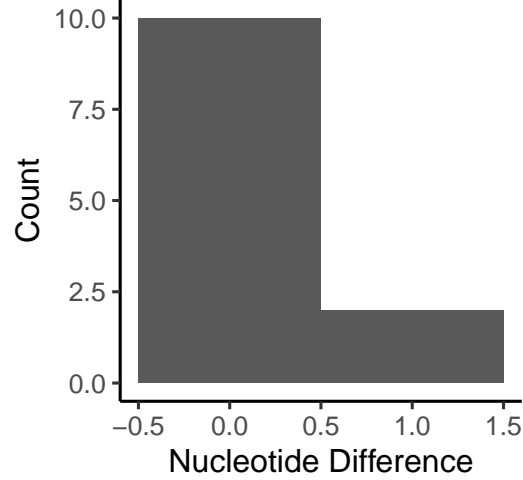
33 sequences assigned  
23 (69.7%) exact matches, in which:  
23 unique CDR3  
4 unique J





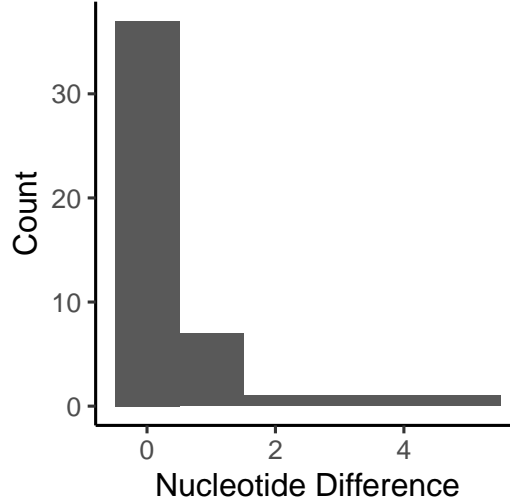
### IGHV4-30-2\*01

12 sequences assigned  
10 (83.3%) exact matches, in which:  
10 unique CDR3  
5 unique J



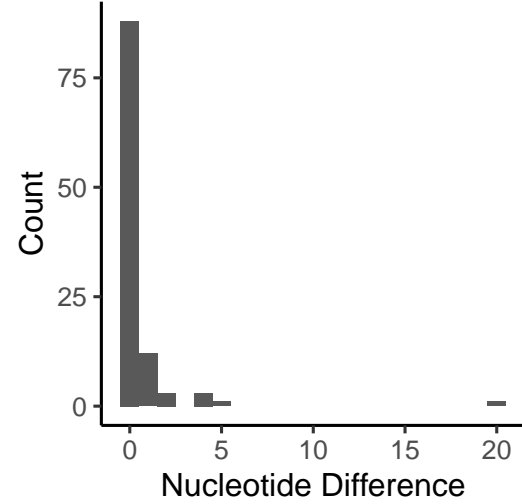
### IGHV4-38-2\*01

49 sequences assigned  
37 (75.5%) exact matches, in which:  
36 unique CDR3  
5 unique J



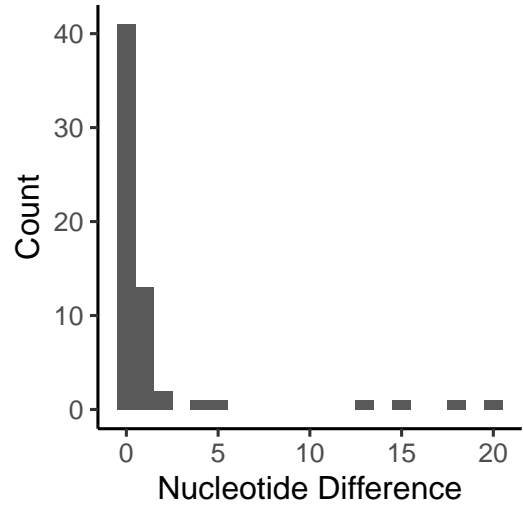
### IGHV4-59\*01

108 sequences assigned  
88 (81.5%) exact matches, in which:  
86 unique CDR3  
5 unique J



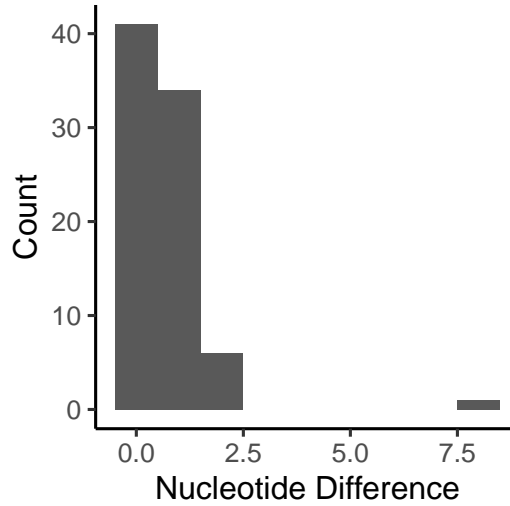
### IGHV4-31\*03

62 sequences assigned  
41 (66.1%) exact matches, in which:  
41 unique CDR3  
5 unique J



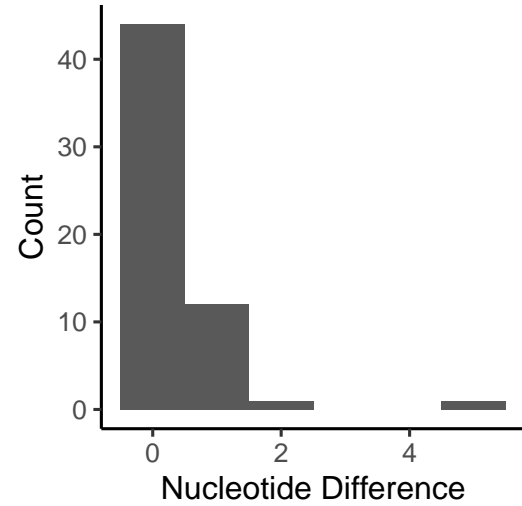
### IGHV4-38-2\*02

89 sequences assigned  
41 (46.1%) exact matches, in which:  
41 unique CDR3  
4 unique J



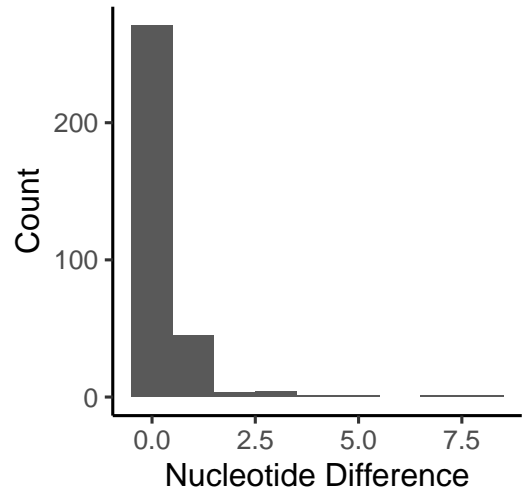
### IGHV4-59\*08

58 sequences assigned  
44 (75.9%) exact matches, in which:  
44 unique CDR3  
5 unique J



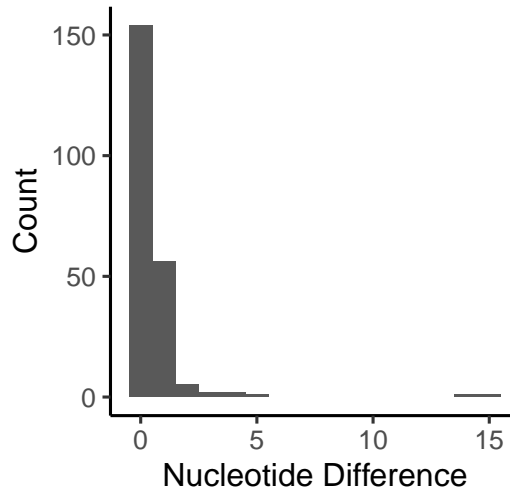
### IGHV4-34\*01

327 sequences assigned  
271 (82.9%) exact matches, in which:  
268 unique CDR3  
6 unique J



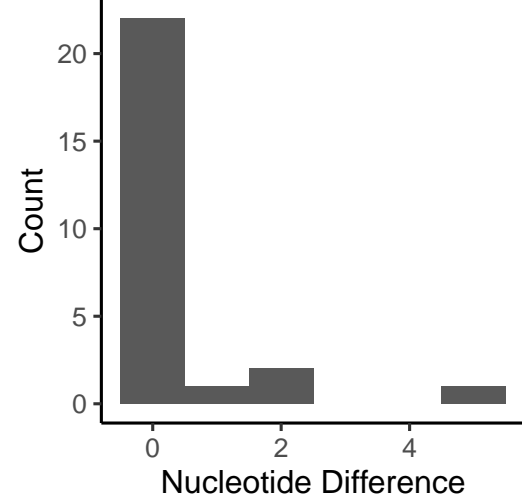
### IGHV4-39\*07

228 sequences assigned  
154 (67.5%) exact matches, in which:  
151 unique CDR3  
5 unique J



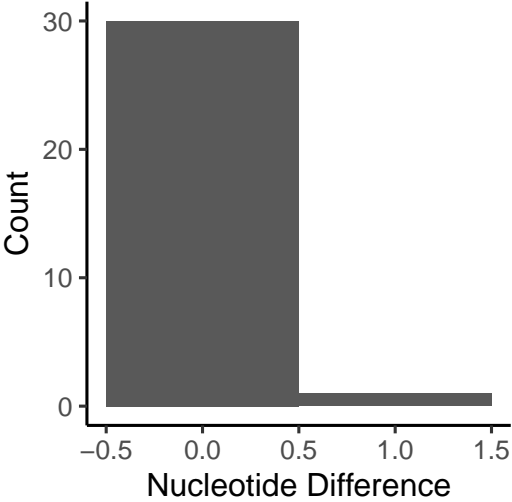
### IGHV4-61\*01

26 sequences assigned  
22 (84.6%) exact matches, in which:  
21 unique CDR3  
4 unique J



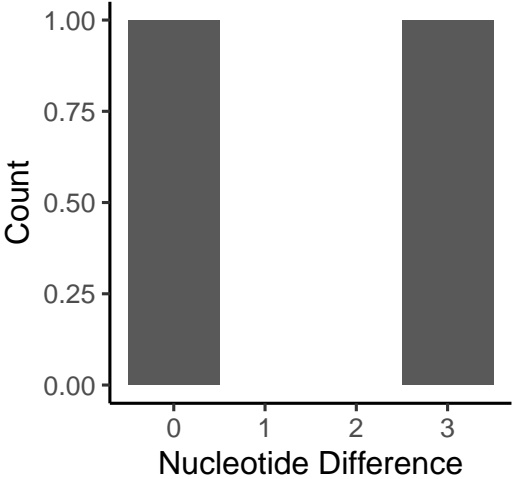
IGHV5-10-1\*01

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



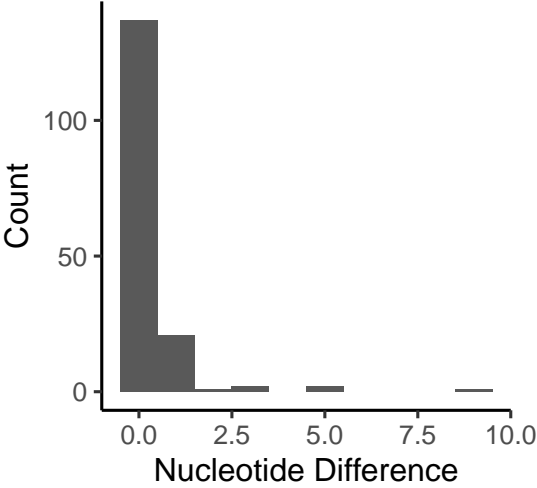
IGHV7-4-1\*02

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



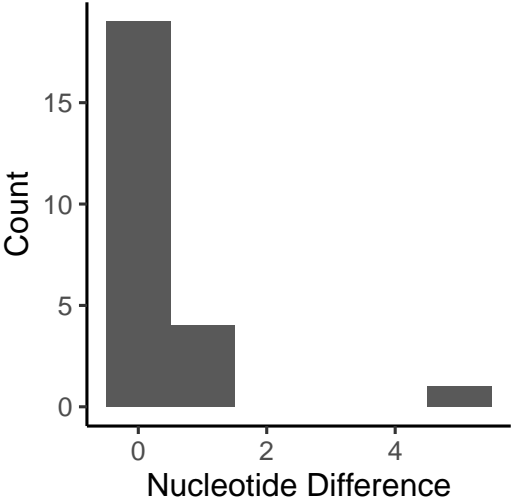
IGHV5-51\*01

165 sequences assigned  
137 (83%) exact matches, in which:  
136 unique CDR3  
6 unique J

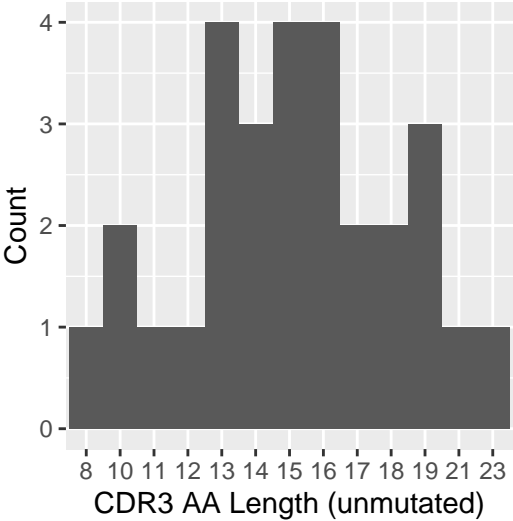


IGHV6-1\*01

24 sequences assigned  
19 (79.2%) exact matches, in which:  
19 unique CDR3  
4 unique J



IGHV3-66\*02\_G303A





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.