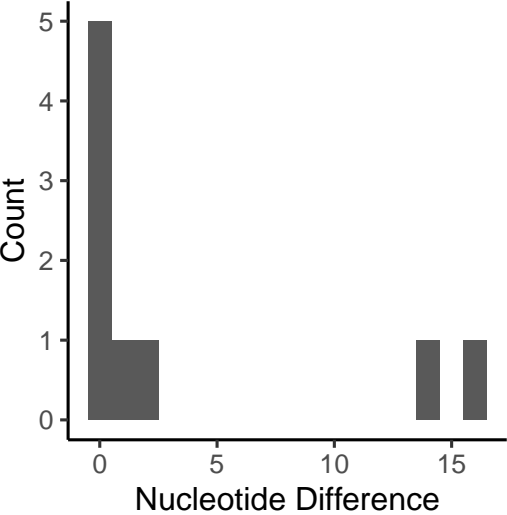


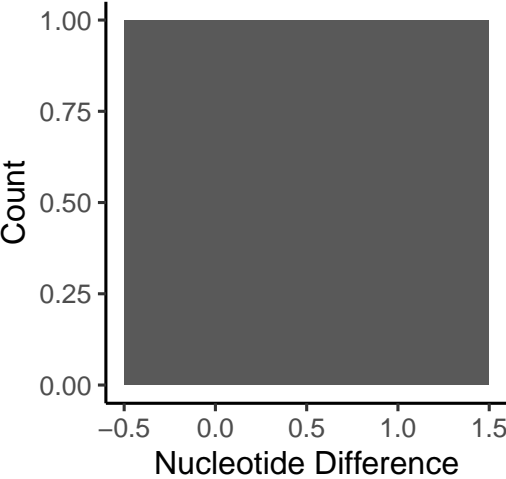
IGHV1-2\*02

9 sequences assigned  
5 (55.6%) exact matches, in which:  
5 unique CDR3  
4 unique J



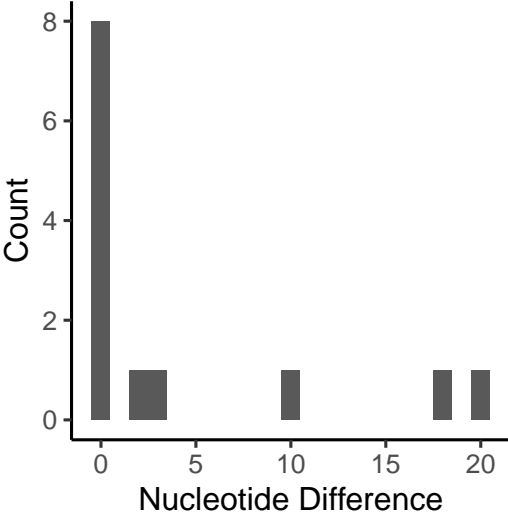
IGHV1-46\*01

5 sequences assigned  
1 (20%) exact matches, in which:  
1 unique CDR3  
1 unique J



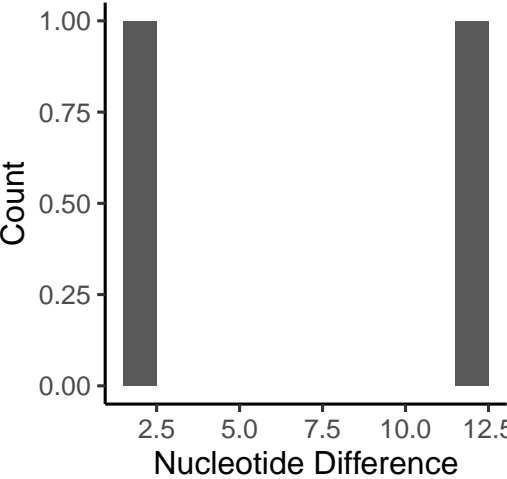
IGHV1-69\*12

14 sequences assigned  
8 (57.1%) exact matches, in which:  
8 unique CDR3  
3 unique J



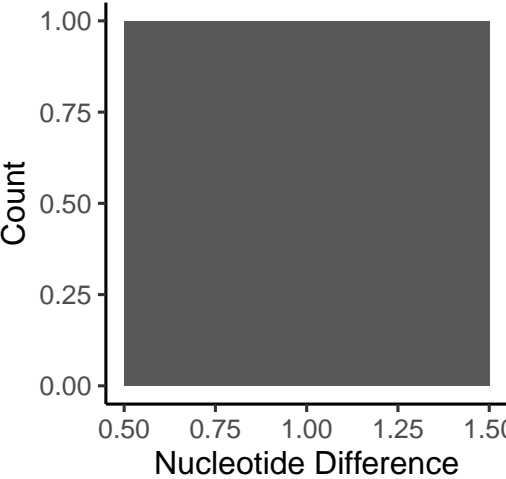
IGHV1-8\*02

3 sequences assigned  
No exact matches.



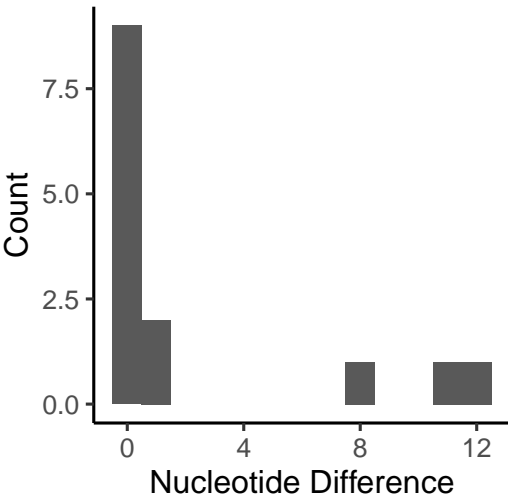
IGHV1-69-2\*01

3 sequences assigned  
No exact matches.



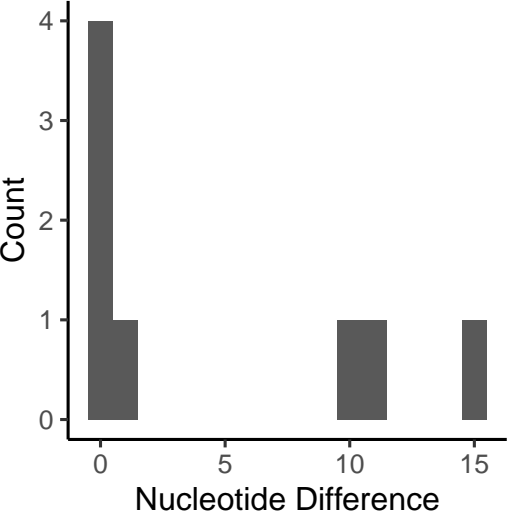
IGHV1-69\*15

19 sequences assigned  
9 (47.4%) exact matches, in which:  
9 unique CDR3  
4 unique J



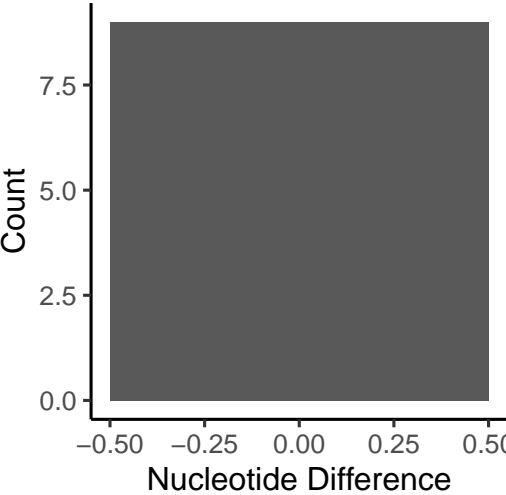
IGHV1-18\*01

14 sequences assigned  
4 (28.6%) exact matches, in which:  
4 unique CDR3  
2 unique J



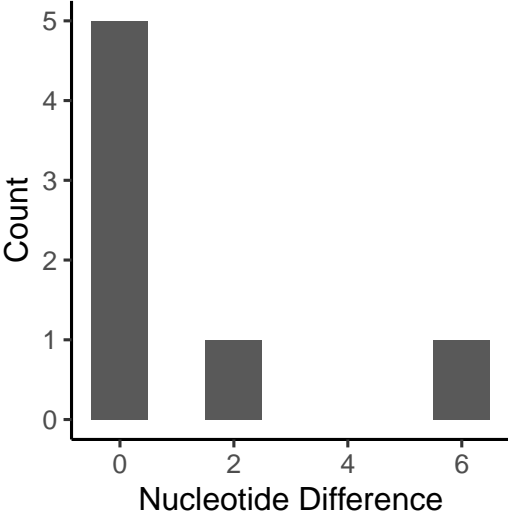
IGHV1-69\*05

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



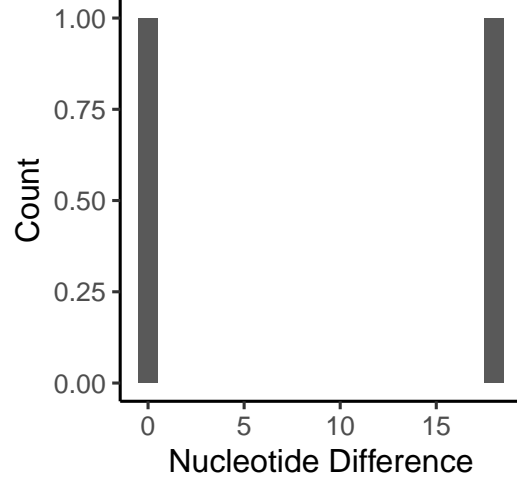
IGHV2-5\*02

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



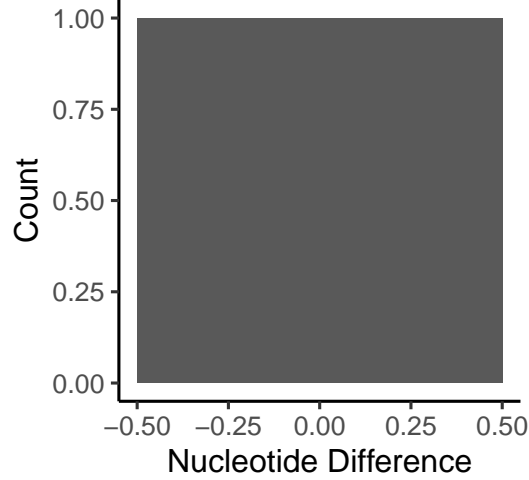
### IGHV2-26\*01

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



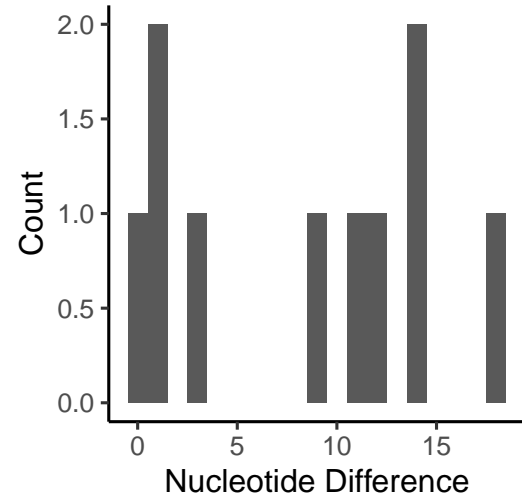
### IGHV2-70\*20

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



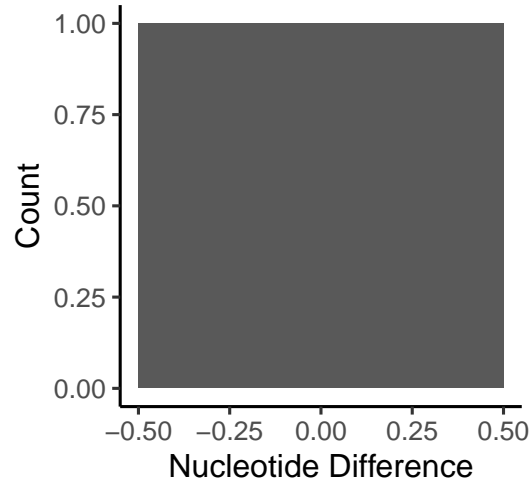
### IGHV3-9\*01

11 sequences assigned  
1 (9.1%) exact matches, in which:  
1 unique CDR3  
1 unique J



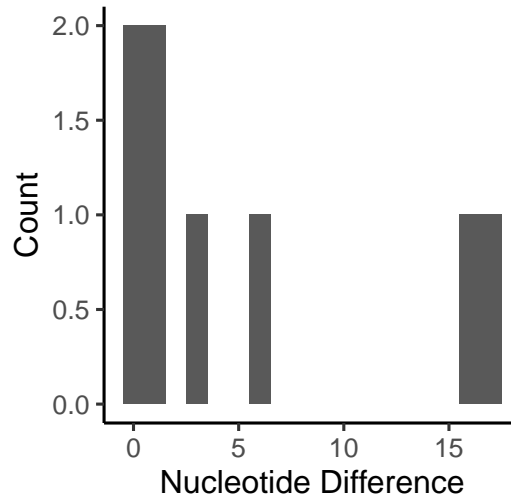
### IGHV2-70\*04

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



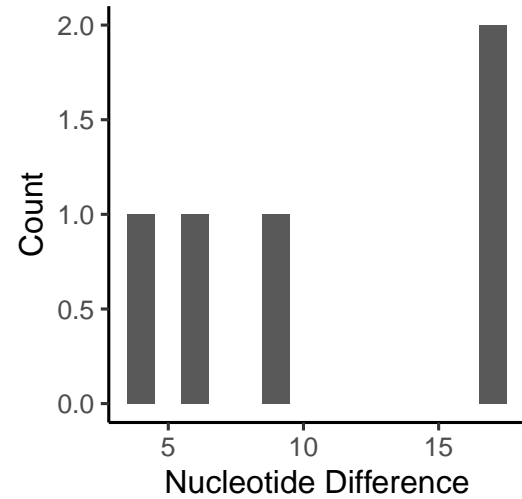
### IGHV3-7\*04

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



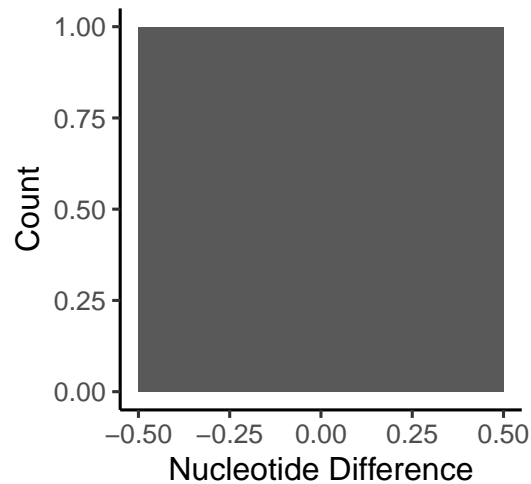
### IGHV3-11\*04

5 sequences assigned  
No exact matches.



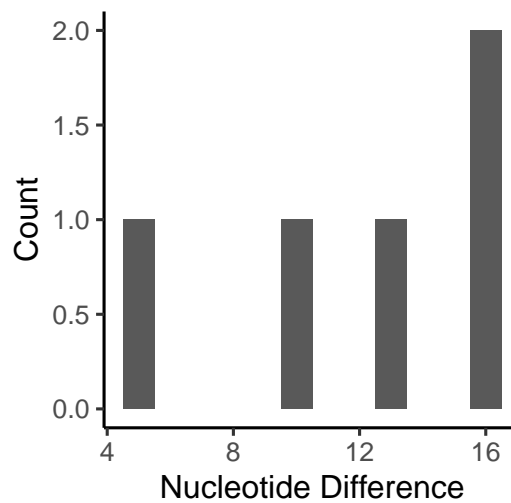
### IGHV2-70\*15

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



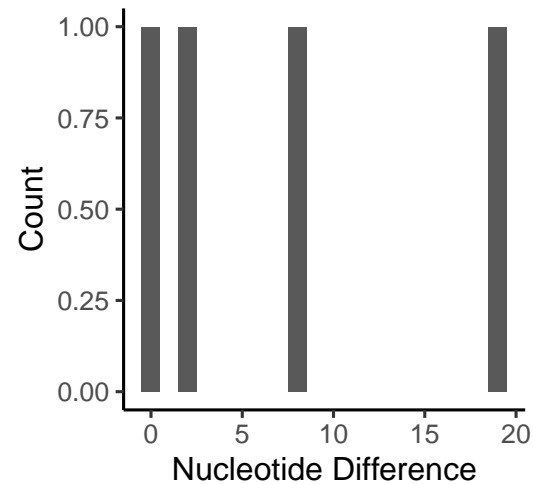
### IGHV3-7\*05

5 sequences assigned  
No exact matches.



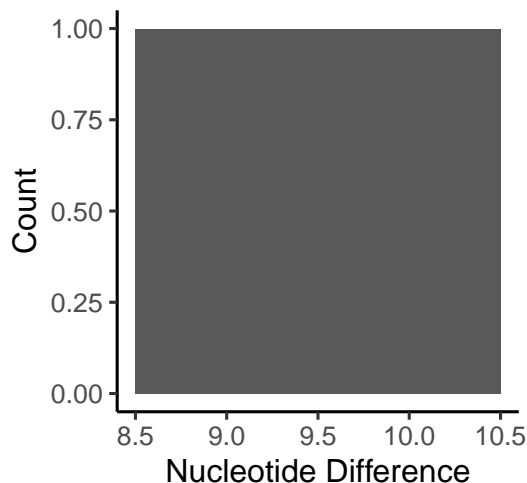
### IGHV3-11\*05

6 sequences assigned  
1 (16.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



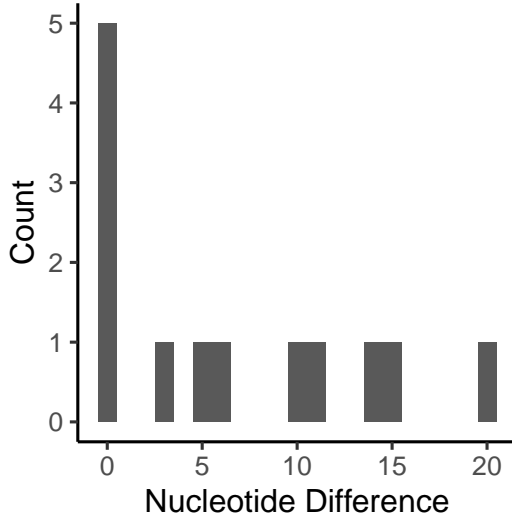
### IGHV3-13\*01

3 sequences assigned  
No exact matches.



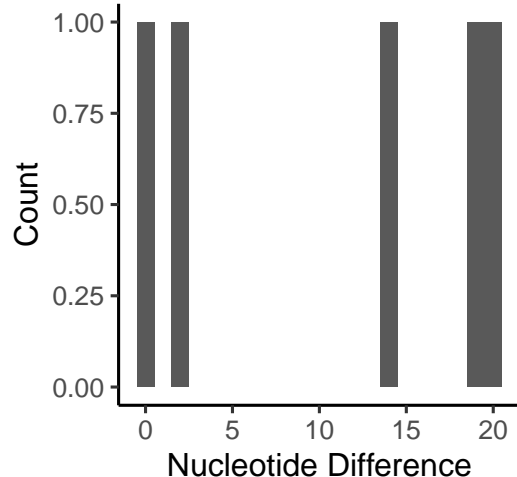
### IGHV3-21\*01

16 sequences assigned  
5 (31.2%) exact matches, in which:  
5 unique CDR3  
2 unique J



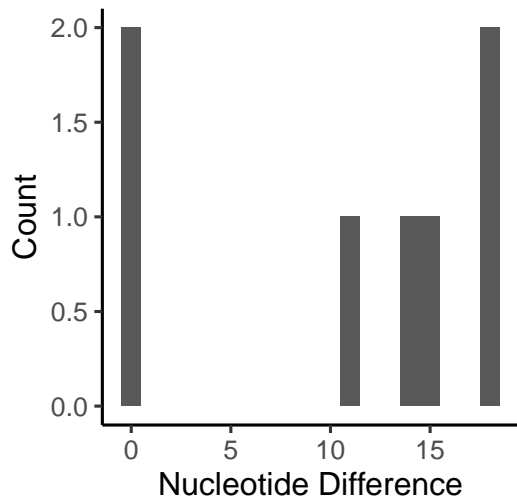
### IGHV3-30\*02

9 sequences assigned  
1 (11.1%) exact matches, in which:  
1 unique CDR3  
1 unique J



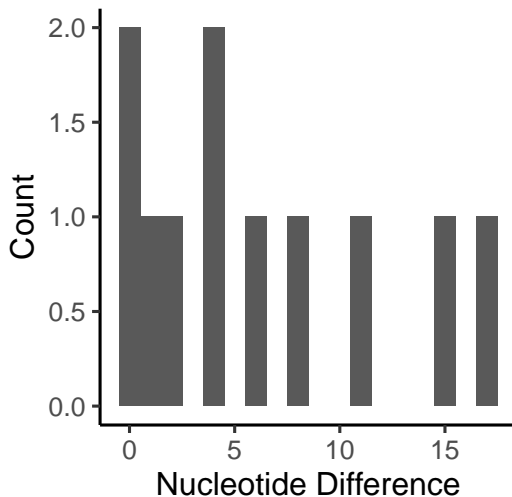
### IGHV3-15\*01

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



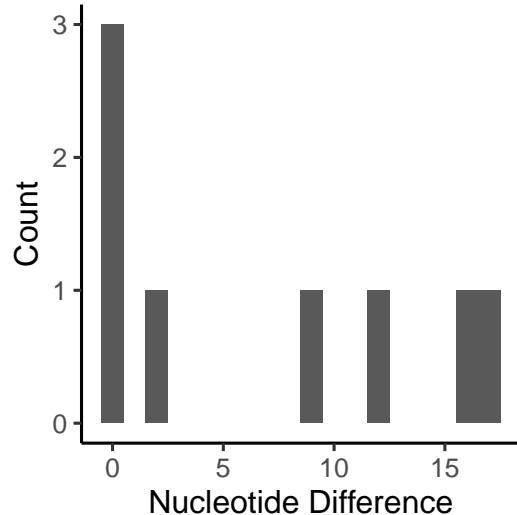
### IGHV3-23\*01

21 sequences assigned  
2 (9.5%) exact matches, in which:  
2 unique CDR3  
2 unique J



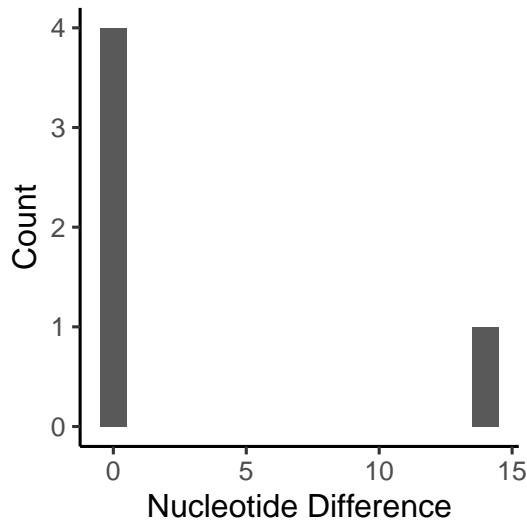
### IGHV3-30\*04

11 sequences assigned  
3 (27.3%) exact matches, in which:  
3 unique CDR3  
2 unique J



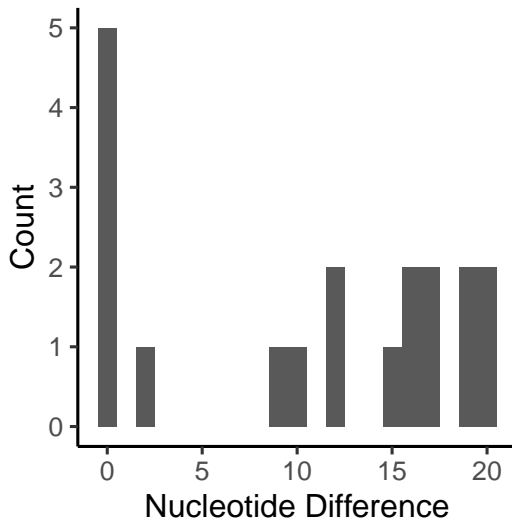
### IGHV3-20\*04

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



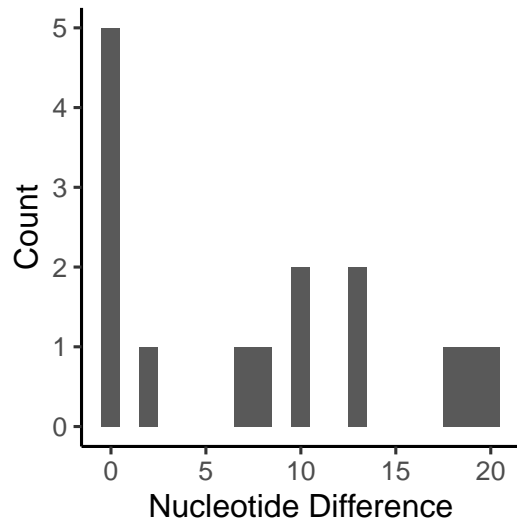
### IGHV3-23\*04

23 sequences assigned  
5 (21.7%) exact matches, in which:  
5 unique CDR3  
3 unique J



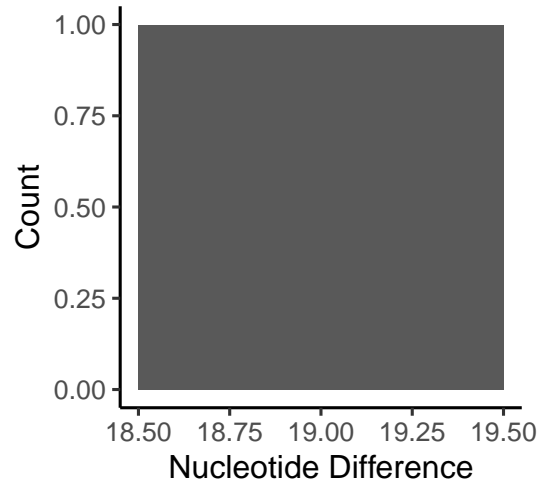
### IGHV3-33\*01

16 sequences assigned  
5 (31.2%) exact matches, in which:  
5 unique CDR3  
4 unique J



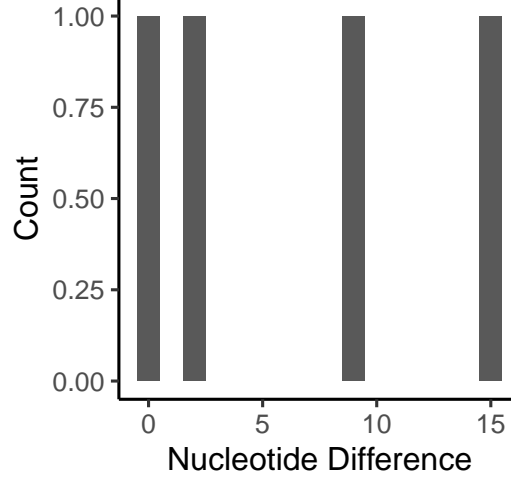
### IGHV3-43\*01

6 sequences assigned  
No exact matches.



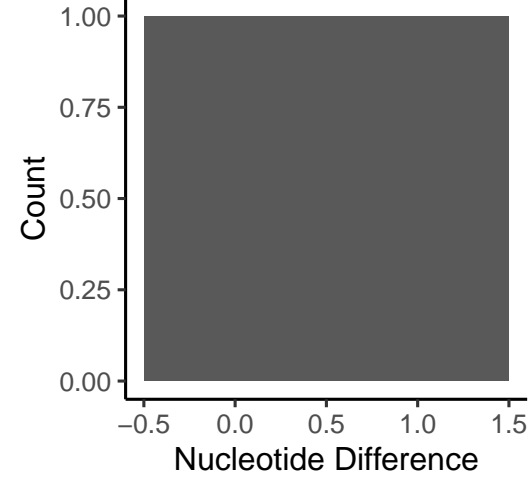
### IGHV3-49\*04

4 sequences assigned  
1 (25%) exact matches, in which:  
1 unique CDR3  
1 unique J



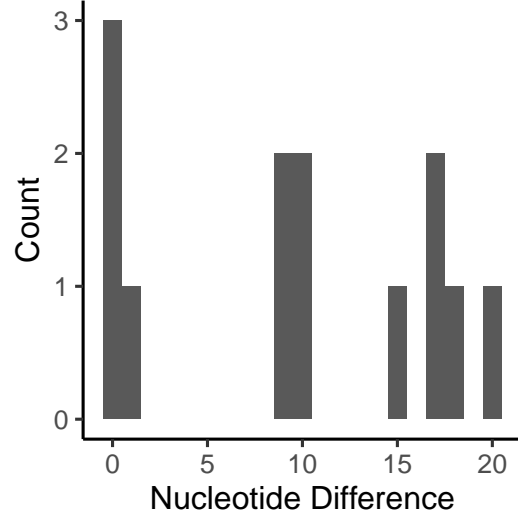
### IGHV3-66\*02

4 sequences assigned  
1 (25%) exact matches, in which:  
1 unique CDR3  
1 unique J



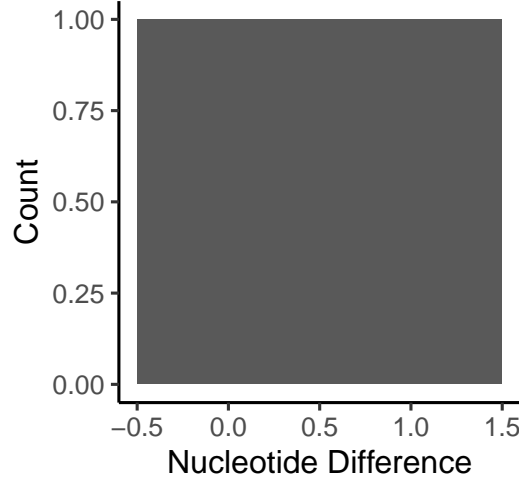
### IGHV3-48\*01

14 sequences assigned  
3 (21.4%) exact matches, in which:  
3 unique CDR3  
3 unique J



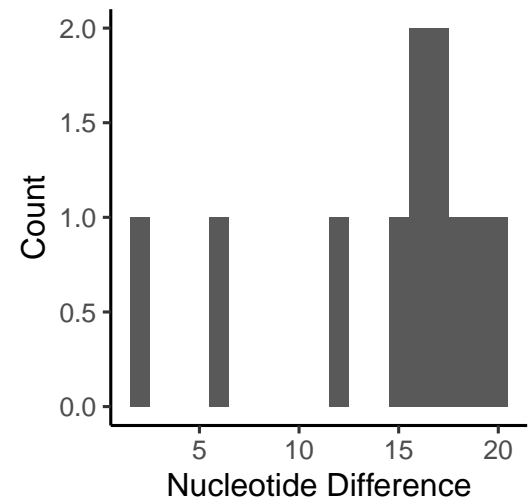
### IGHV3-53\*02

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



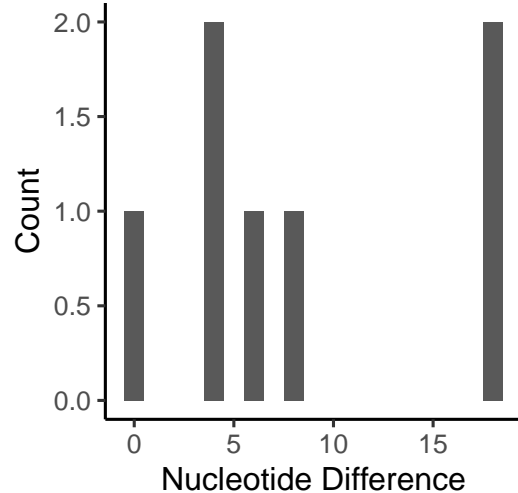
### IGHV3-72\*01

11 sequences assigned  
No exact matches.



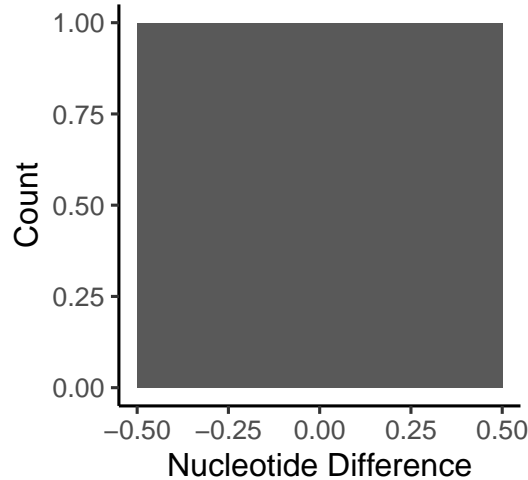
### IGHV3-48\*04

8 sequences assigned  
1 (12.5%) exact matches, in which:  
1 unique CDR3  
1 unique J



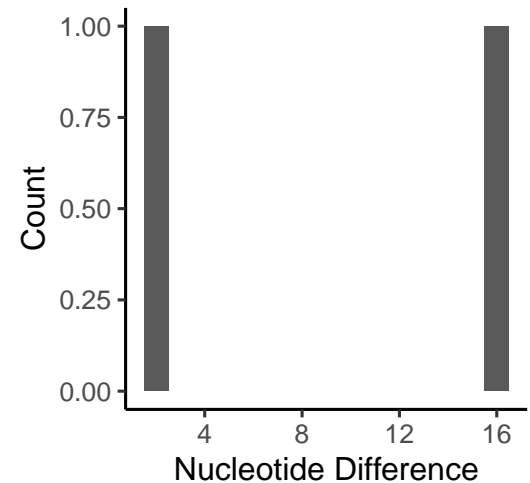
### IGHV3-64\*01

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



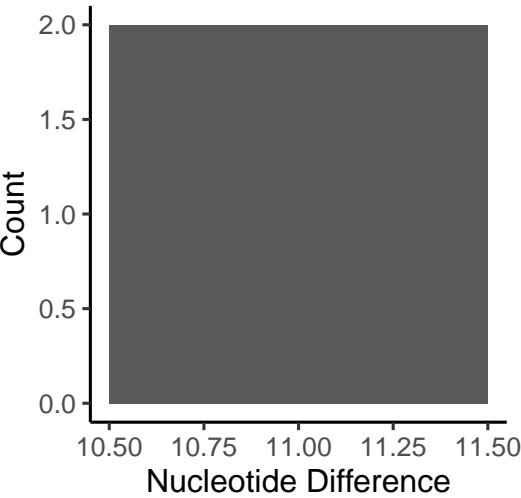
### IGHV3-73\*01

2 sequences assigned  
No exact matches.



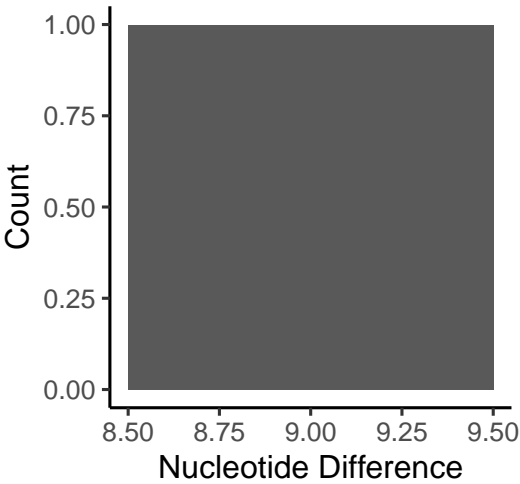
IGHV3-73\*02

2 sequences assigned  
No exact matches.



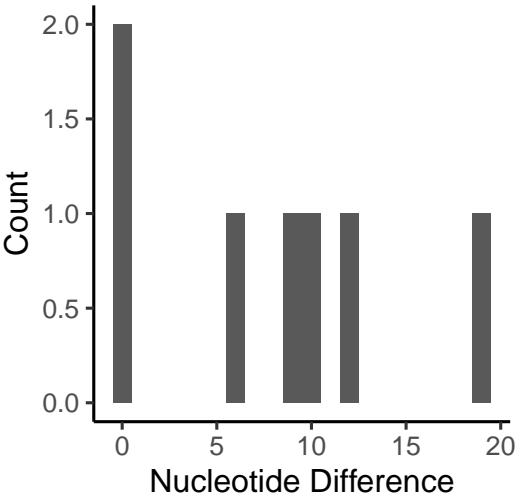
IGHV3-64D\*09

1 sequences assigned  
No exact matches.



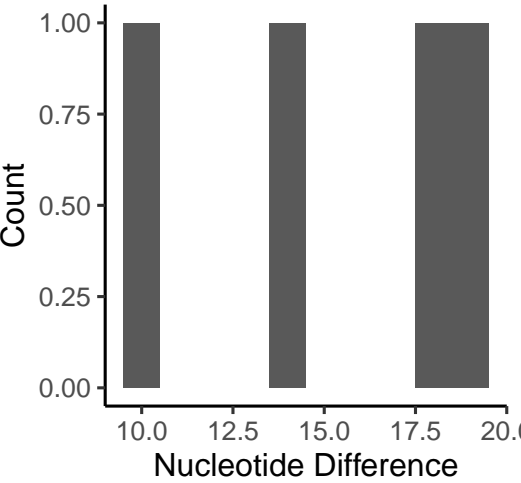
IGHV4-4\*09

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



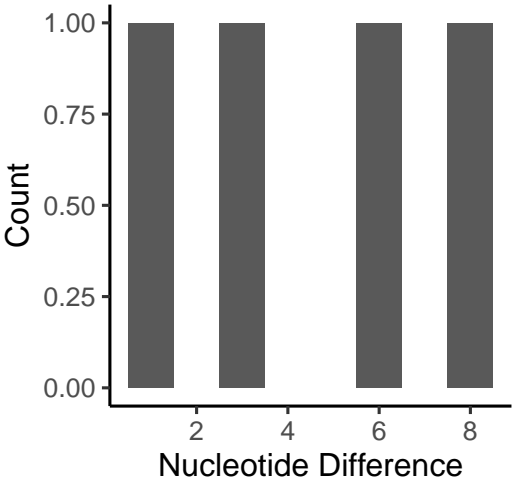
IGHV3-74\*01

4 sequences assigned  
No exact matches.



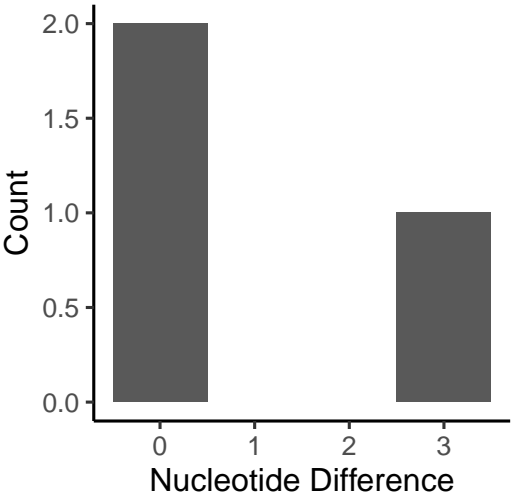
IGHV4-4\*02

4 sequences assigned  
No exact matches.



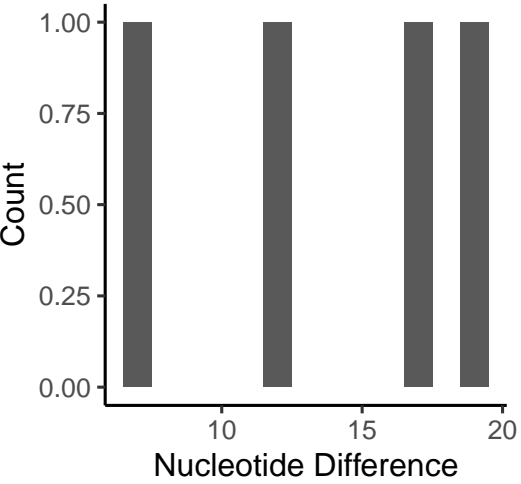
IGHV4-31\*03

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



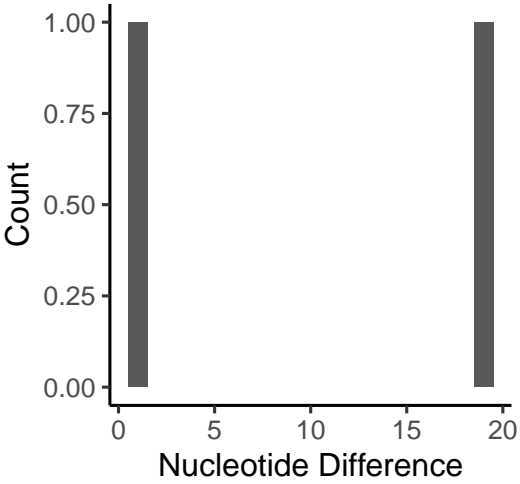
IGHV3-74\*02

11 sequences assigned  
No exact matches.



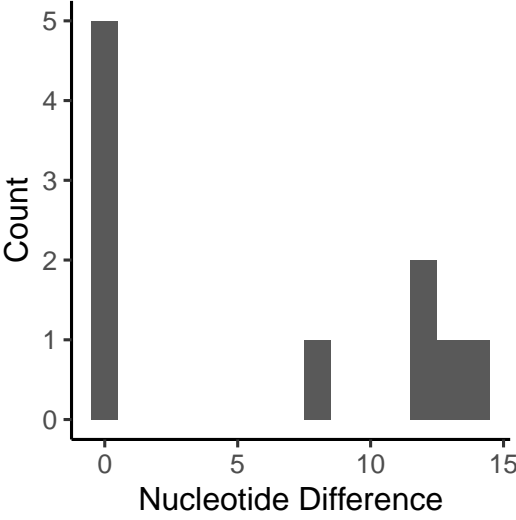
IGHV4-4\*07

3 sequences assigned  
No exact matches.



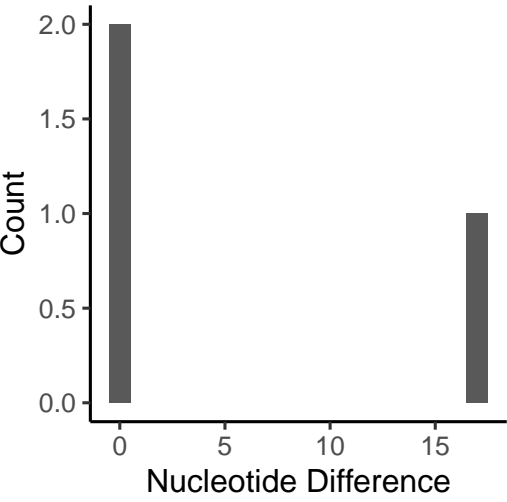
IGHV4-34\*01

11 sequences assigned  
5 (45.5%) exact matches, in which:  
5 unique CDR3  
3 unique J



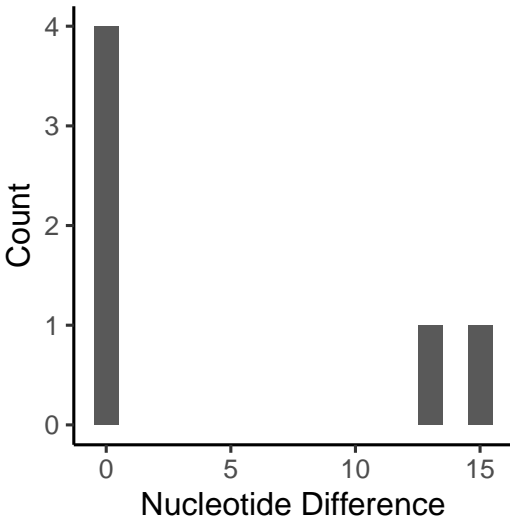
IGHV4-38-2\*01

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



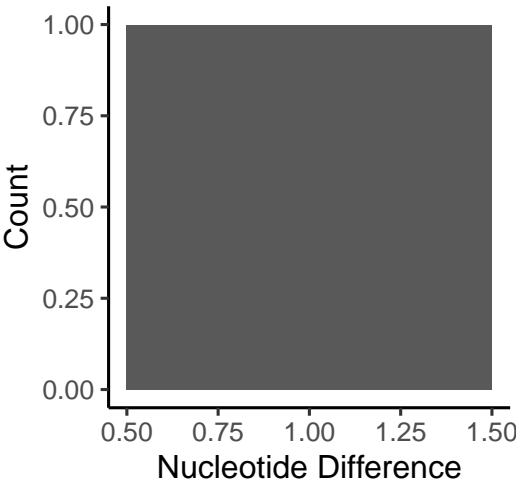
IGHV4-59\*11

11 sequences assigned  
4 (36.4%) exact matches, in which:  
4 unique CDR3  
3 unique J



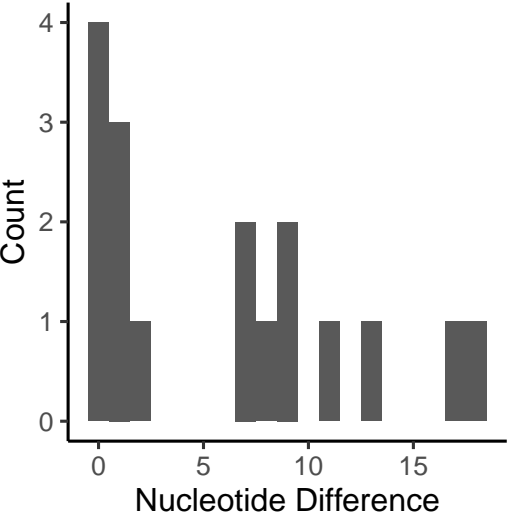
IGHV5-51\*01

1 sequences assigned  
No exact matches.



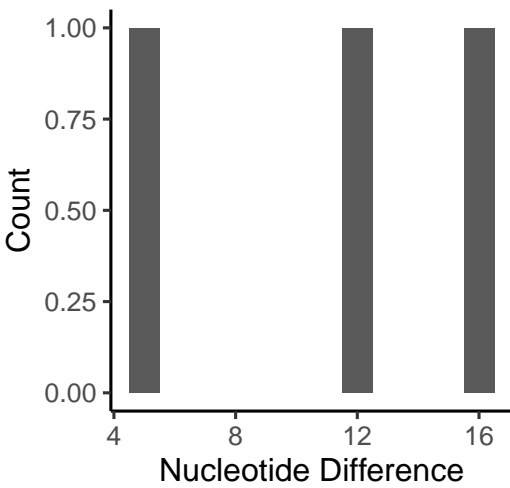
IGHV4-39\*01

26 sequences assigned  
4 (15.4%) exact matches, in which:  
4 unique CDR3  
3 unique J



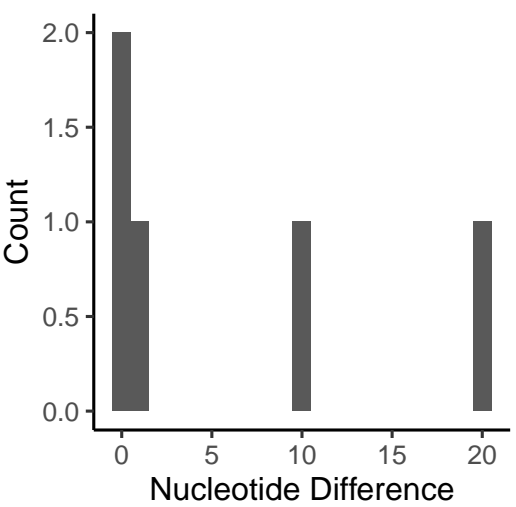
IGHV4-61\*02

7 sequences assigned  
No exact matches.



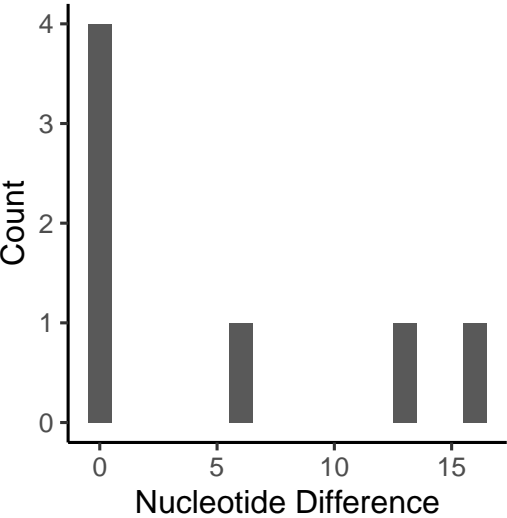
IGHV5-51\*03

5 sequences assigned  
2 (40%) exact matches, in which:  
2 unique CDR3  
2 unique J



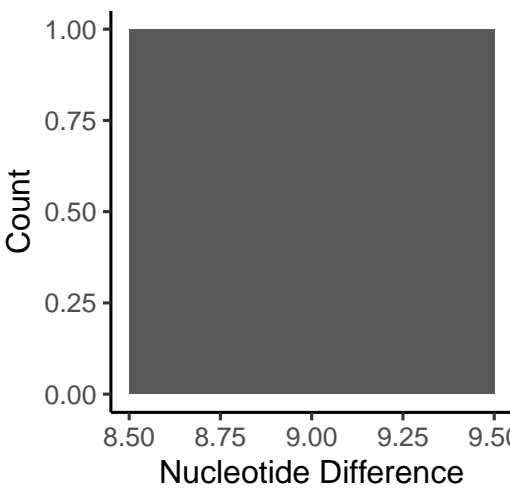
IGHV4-59\*01

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



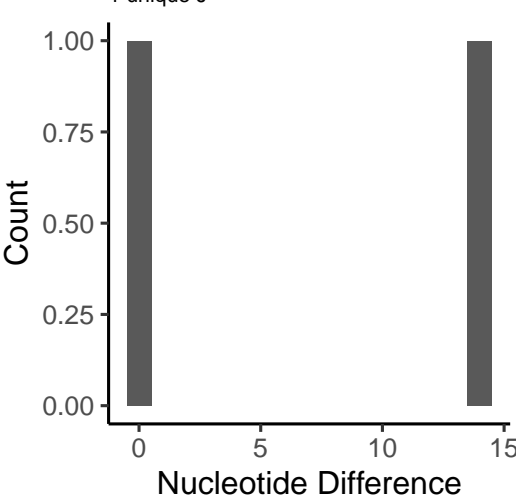
IGHV5-10-1\*01

4 sequences assigned  
No exact matches.



IGHV6-1\*01

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





Warning – no inferred sequences found.