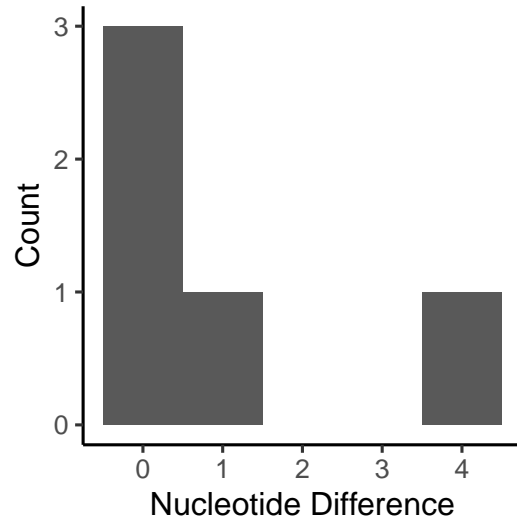


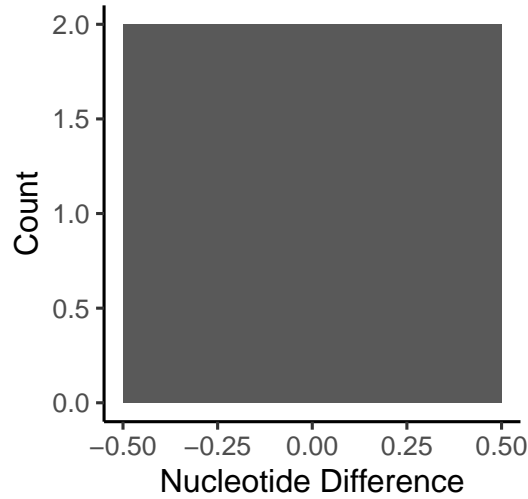
### IGHV1–2\*04

5 sequences assigned  
3 (60%) exact matches, in which:  
3 unique CDR3  
3 unique J



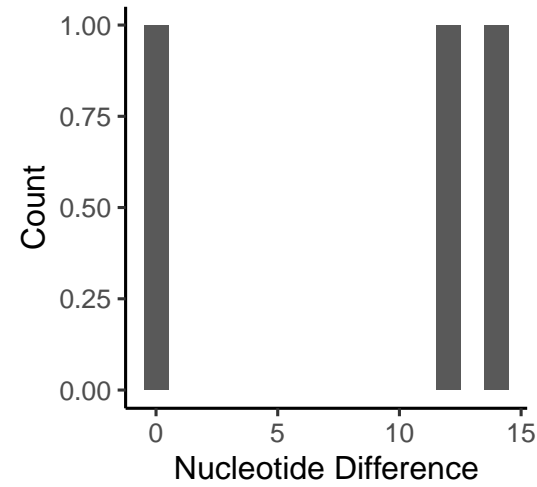
### IGHV1–24\*01

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



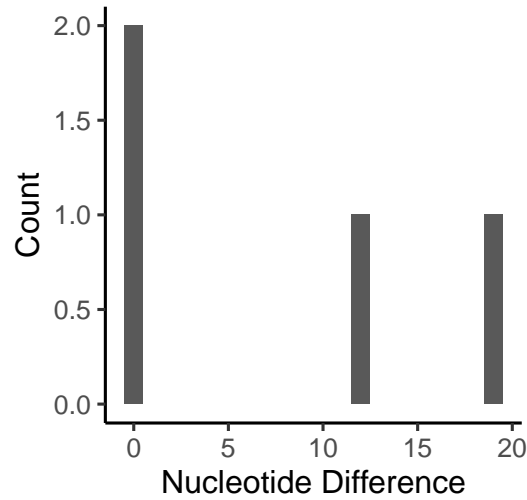
### IGHV2–5\*02

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



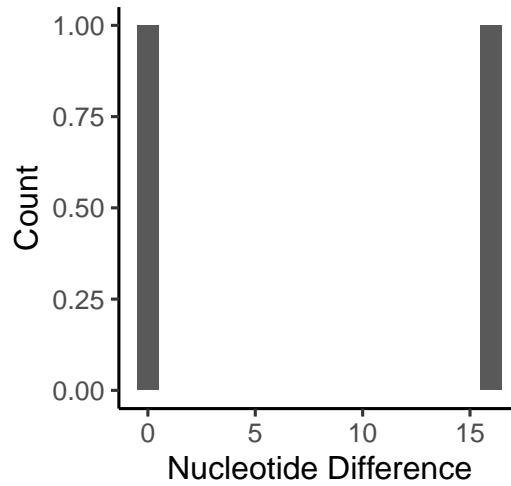
### IGHV1–3\*01

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



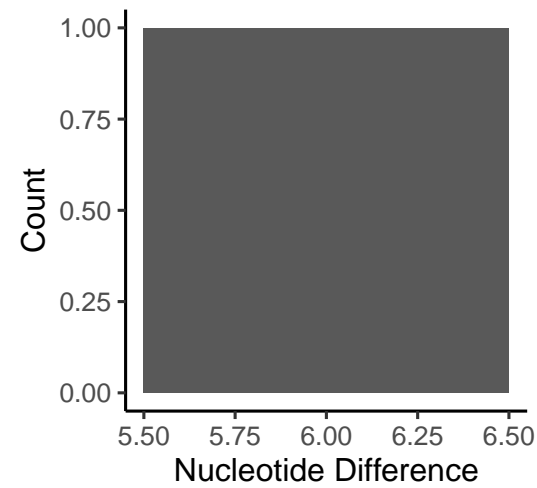
### IGHV1–46\*03

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



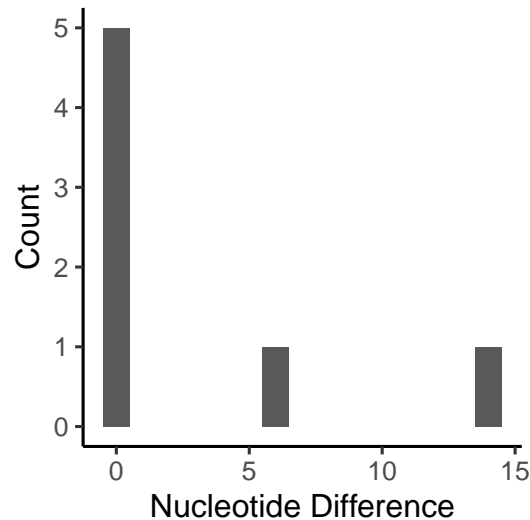
### IGHV2–26\*01

1 sequences assigned  
No exact matches.



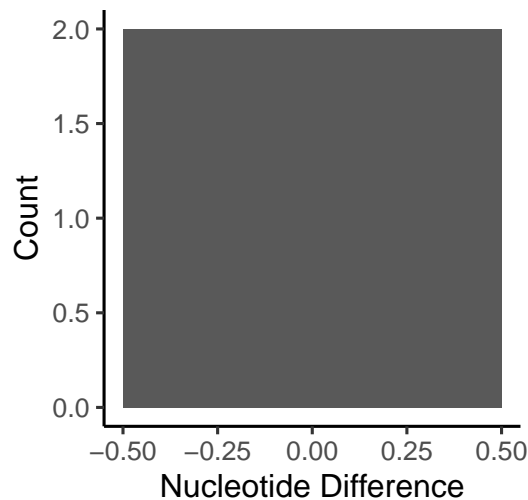
### IGHV1–18\*04

7 sequences assigned  
5 (71.4%) exact matches, in which:  
5 unique CDR3  
5 unique J



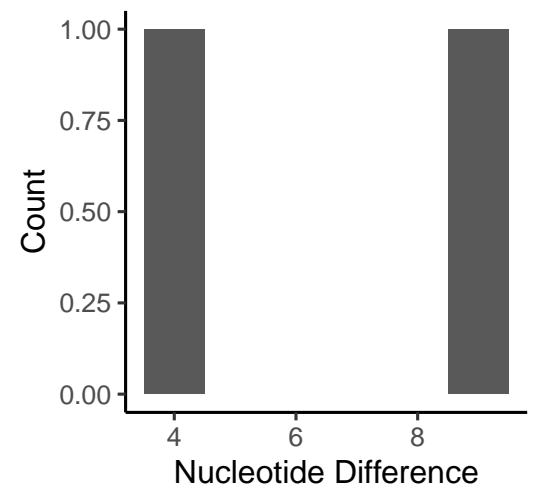
### IGHV1–69\*04

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



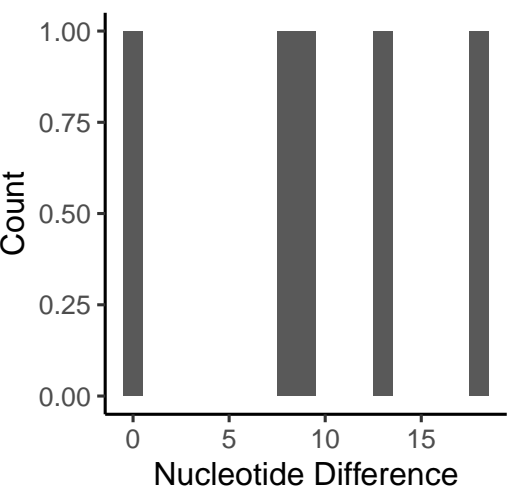
### IGHV2–70\*15

2 sequences assigned  
No exact matches.



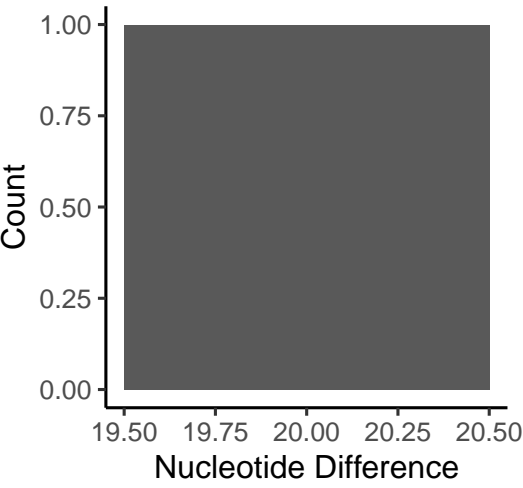
IGHV3-7\*03

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



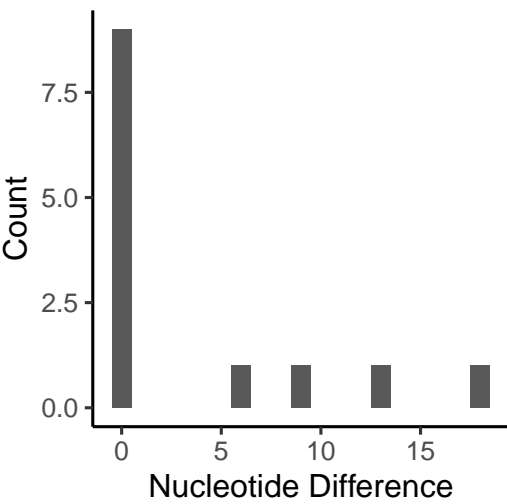
IGHV3-15\*02

1 sequences assigned  
No exact matches.



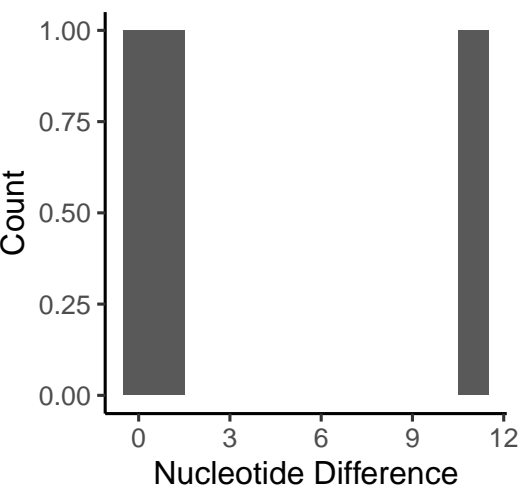
IGHV3-33\*01

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



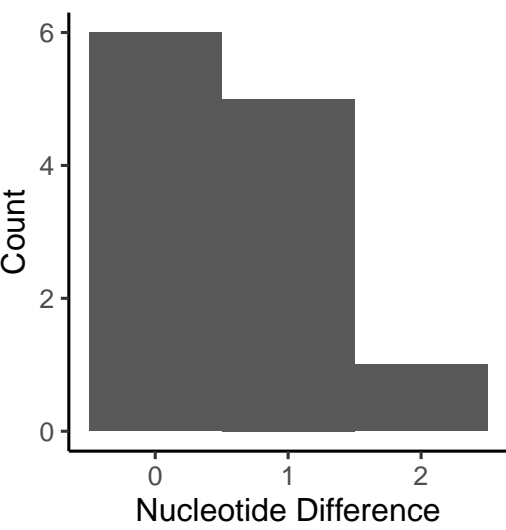
IGHV3-11\*06

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



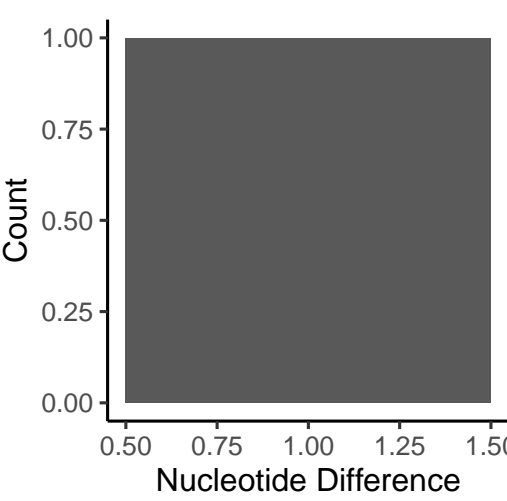
IGHV3-21\*01

12 sequences assigned  
6 (50%) exact matches, in which:  
6 unique CDR3  
4 unique J



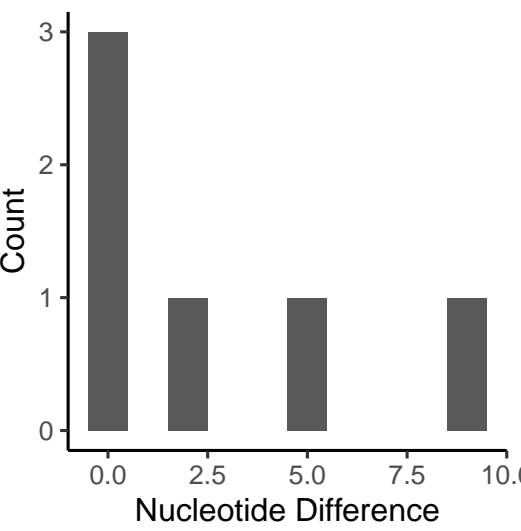
IGHV3-43\*01

1 sequences assigned  
No exact matches.



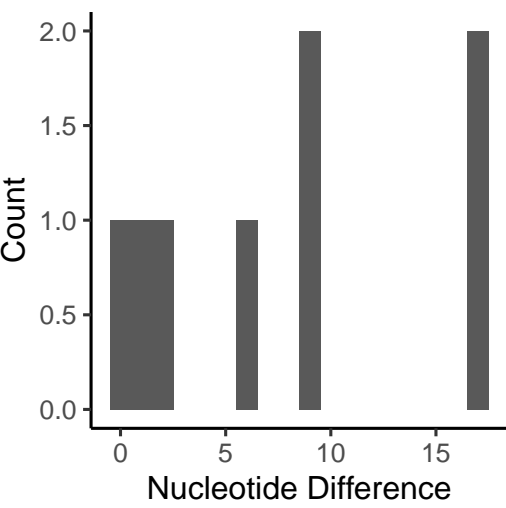
IGHV3-15\*01

6 sequences assigned  
3 (50%) exact matches, in which:  
3 unique CDR3  
1 unique J



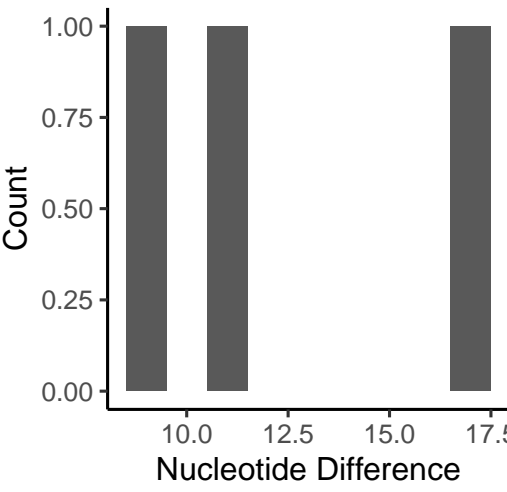
IGHV3-30\*01

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



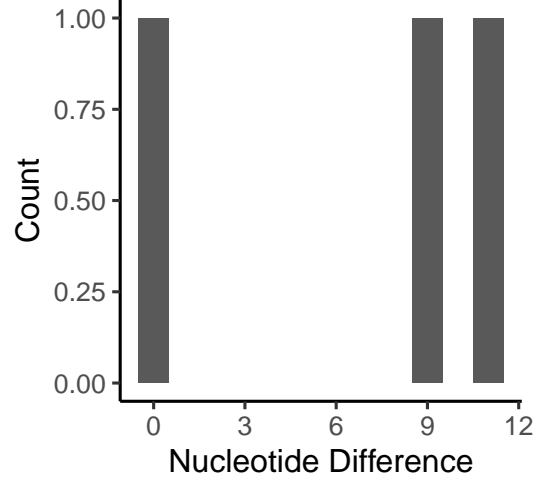
IGHV3-48\*01

3 sequences assigned  
No exact matches.



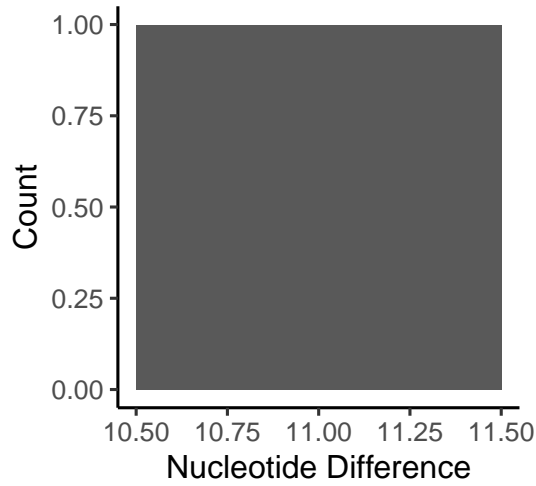
### IGHV3-48\*02

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



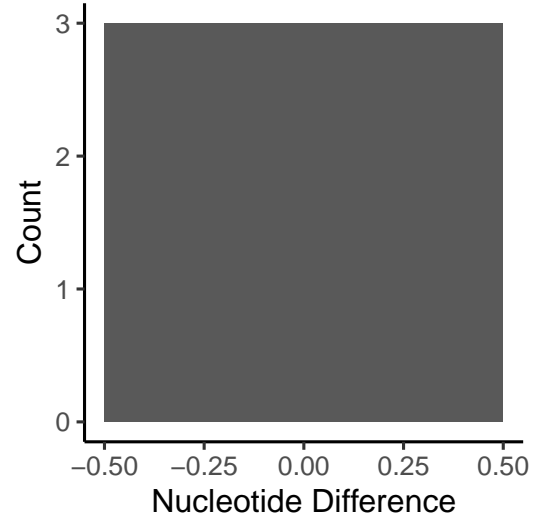
### IGHV3-49\*05

1 sequences assigned  
No exact matches.



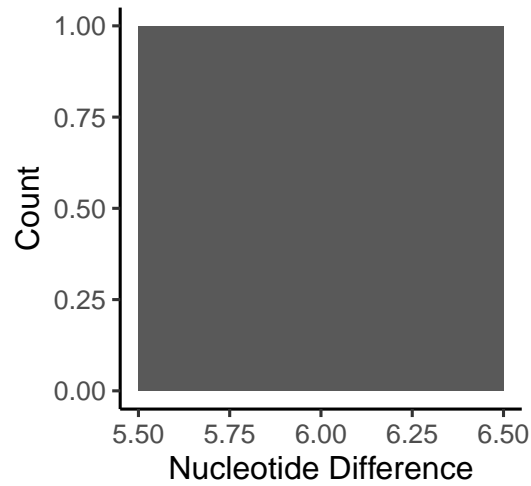
### IGHV3-66\*01

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



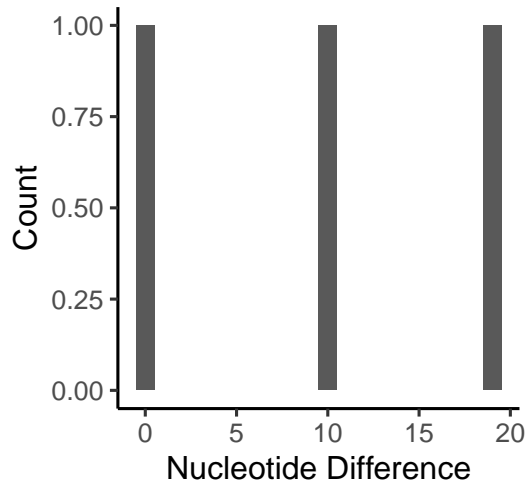
### IGHV3-48\*04

1 sequences assigned  
No exact matches.



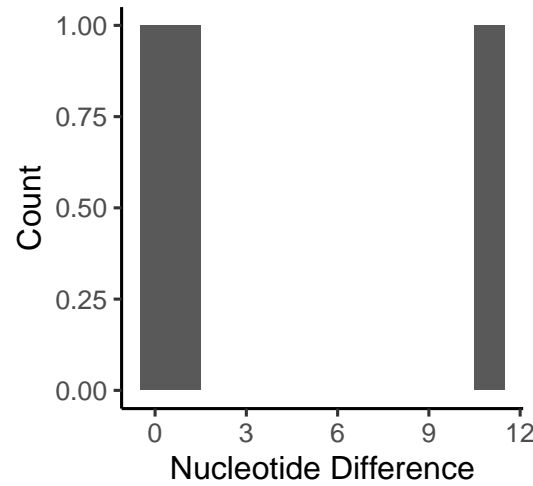
### IGHV3-53\*01

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



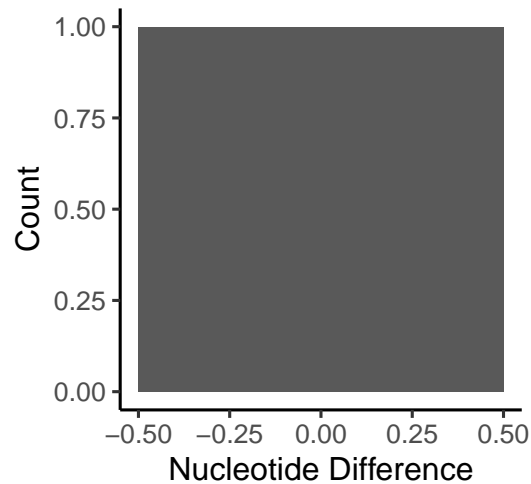
### IGHV3-73\*02

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



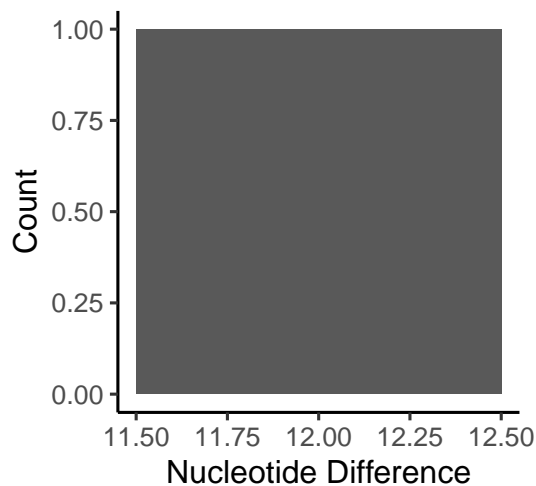
### IGHV3-49\*03

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



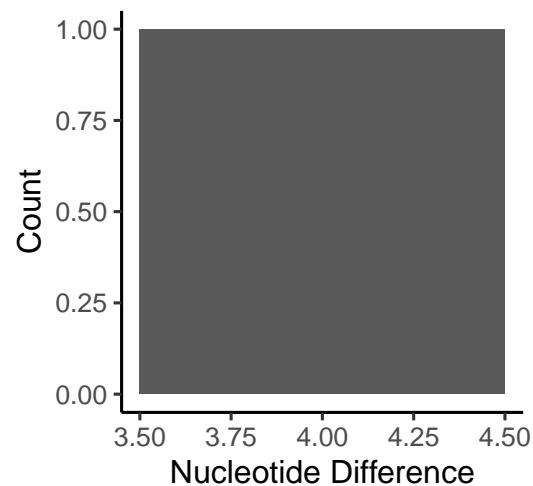
### IGHV3-64\*01

1 sequences assigned  
No exact matches.



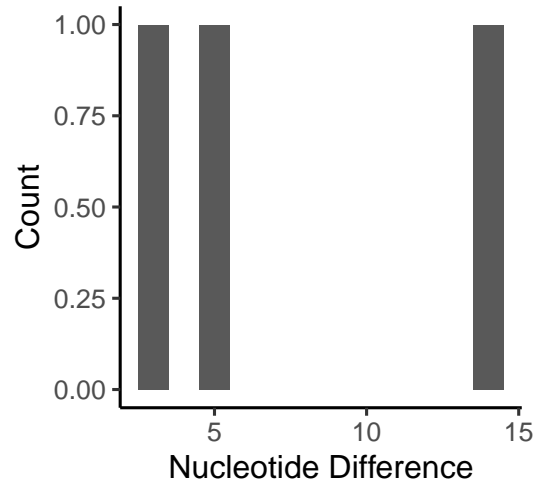
### IGHV3-74\*01

2 sequences assigned  
No exact matches.



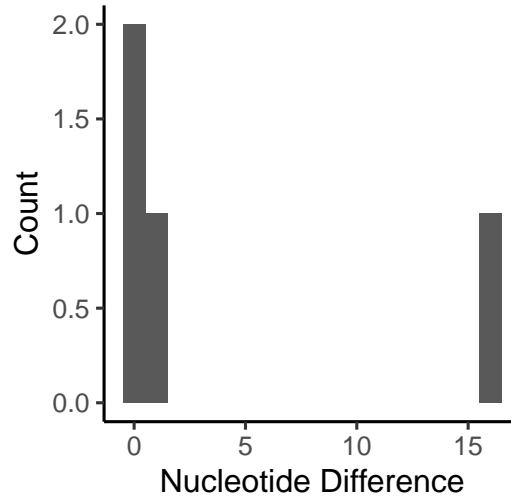
### IGHV4-4\*02

3 sequences assigned  
No exact matches.



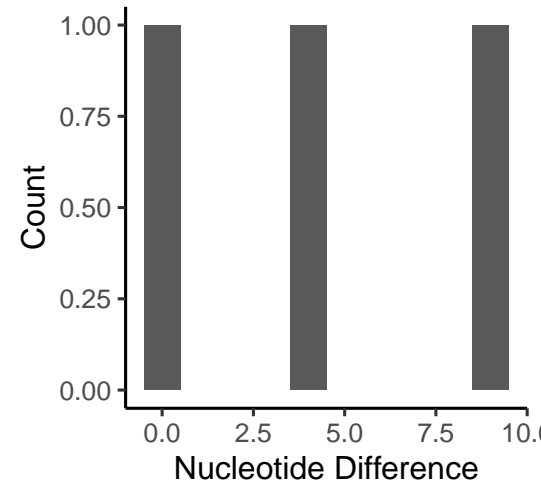
### IGHV4-31\*03

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



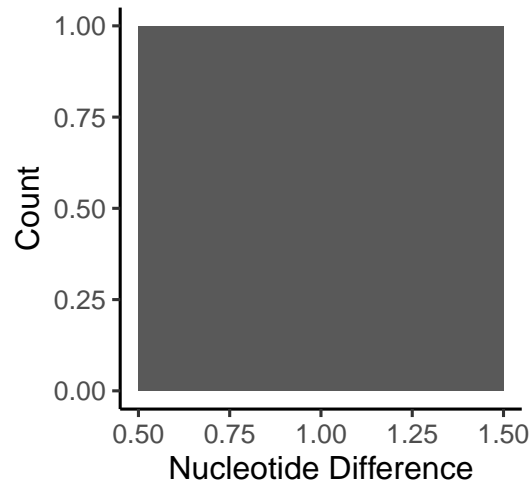
### IGHV4-59\*01

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



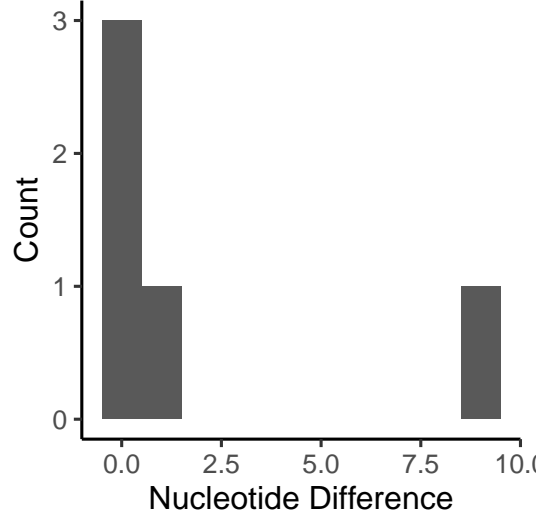
### IGHV4-30-2\*01

1 sequences assigned  
No exact matches.



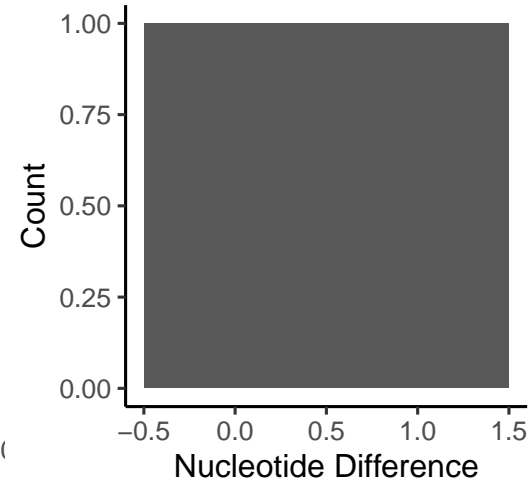
### IGHV4-34\*01

5 sequences assigned  
3 (60%) exact matches, in which:  
3 unique CDR3  
2 unique J



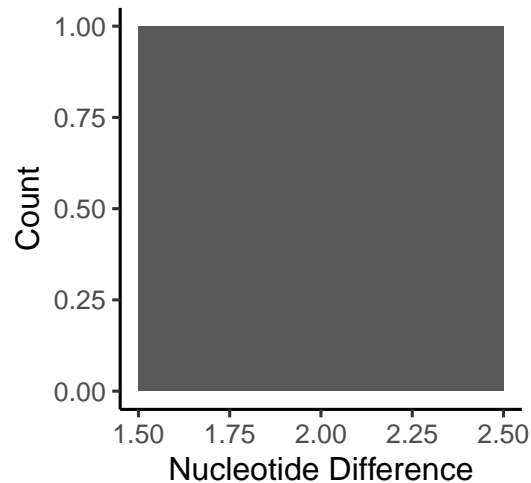
### IGHV4-59\*08

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



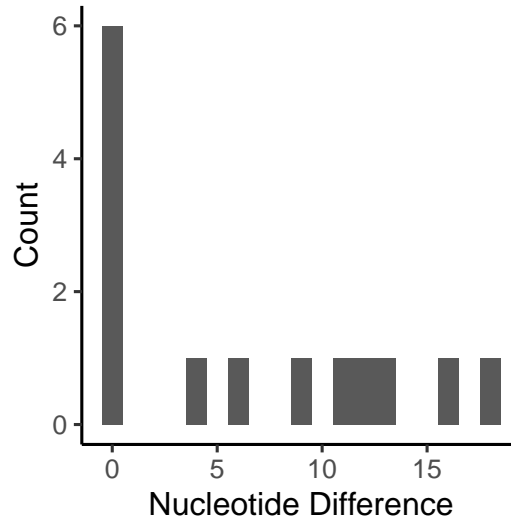
### IGHV4-31\*01

1 sequences assigned  
No exact matches.



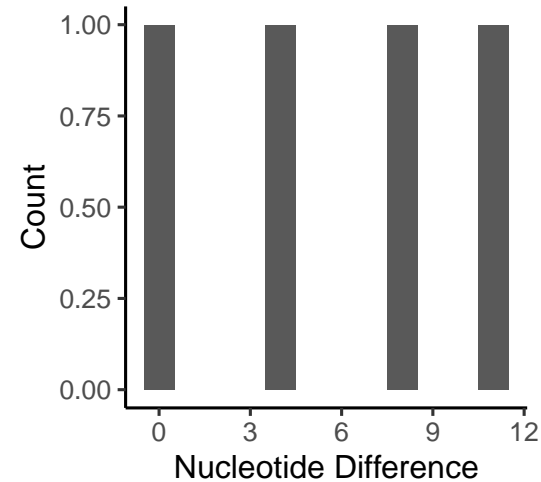
### IGHV4-39\*01

16 sequences assigned  
6 (37.5%) exact matches, in which:  
6 unique CDR3  
2 unique J



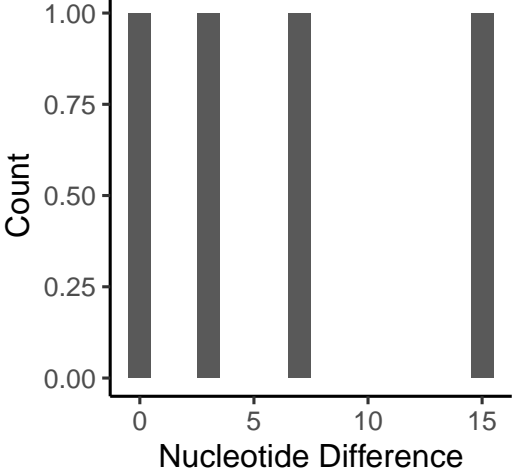
### IGHV5-10-1\*03

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



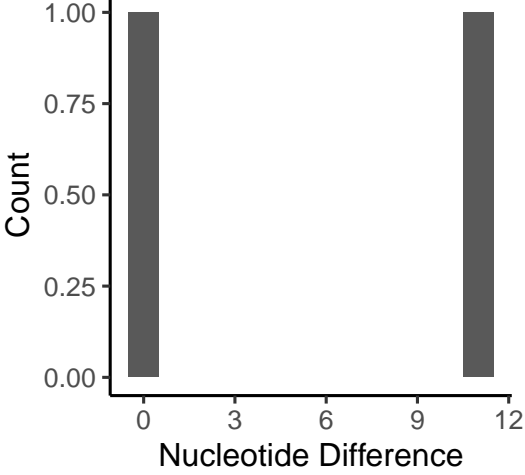
IGHV5-51\*03

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



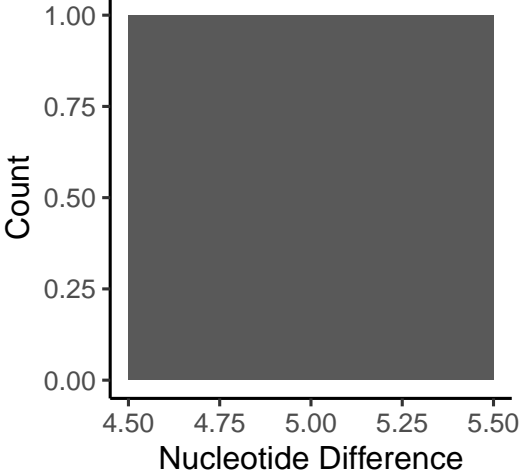
IGHV6-1\*01

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



IGHV7-4-1\*02

1 sequences assigned  
No exact matches.





[illegible]