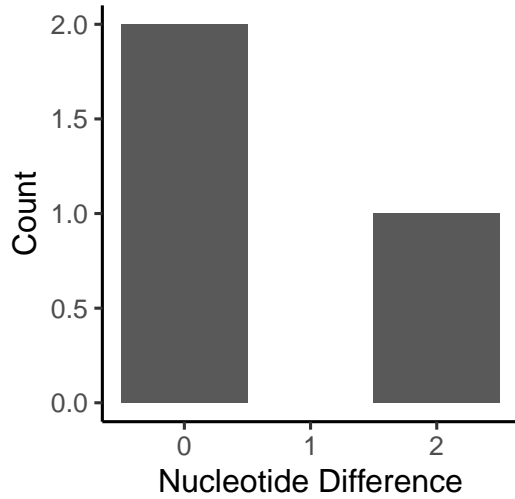


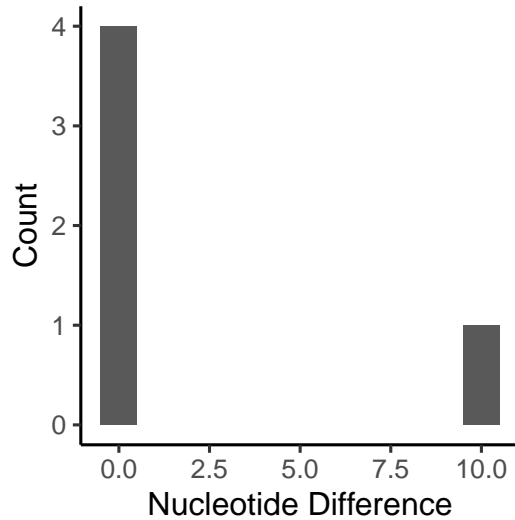
### IGHV1-2\*02

6 sequences assigned  
2 (33.3%) exact matches, in which:  
2 unique CDR3  
2 unique J



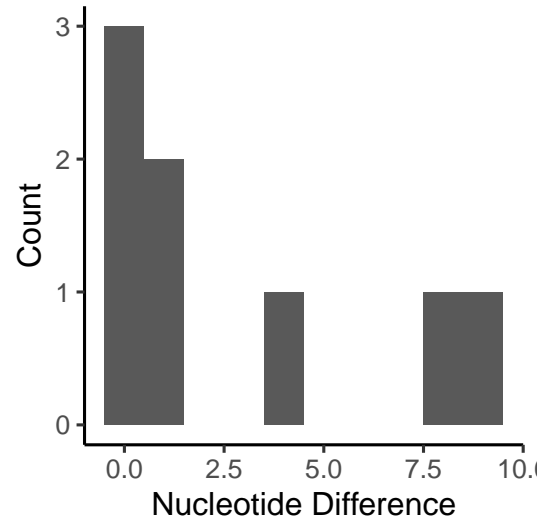
### IGHV1-8\*01

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



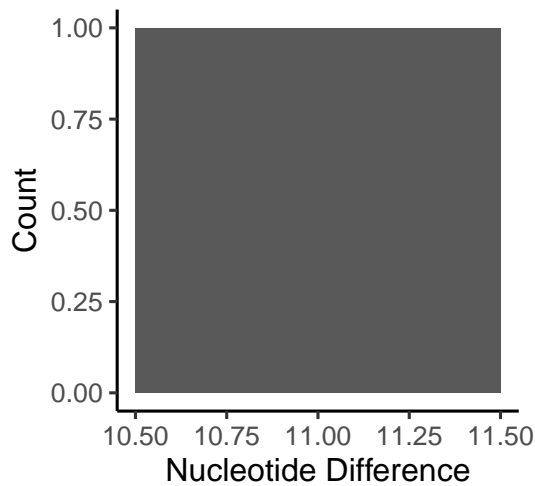
### IGHV1-46\*01

8 sequences assigned  
3 (37.5%) exact matches, in which:  
3 unique CDR3  
3 unique J



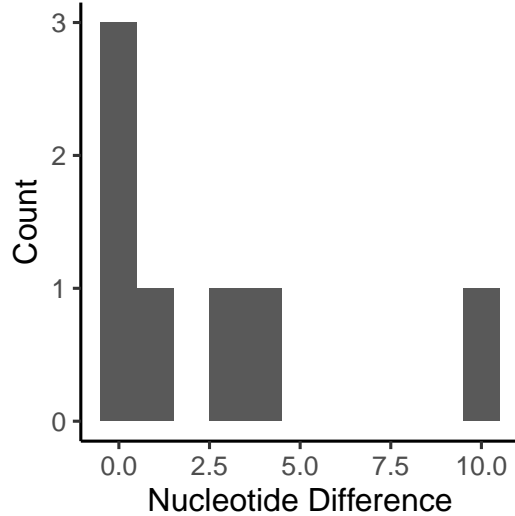
### IGHV1-2\*05

1 sequences assigned  
No exact matches.



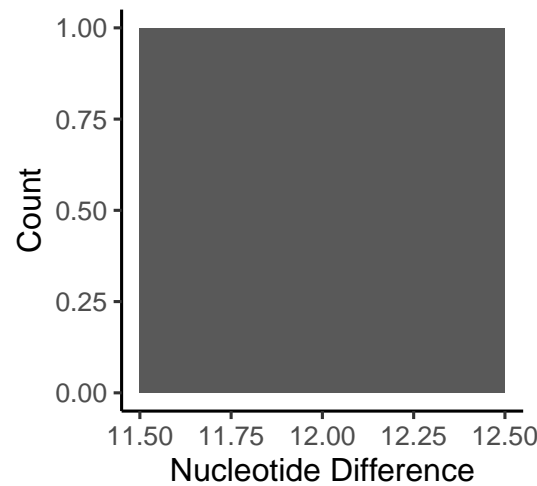
### IGHV1-18\*01

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



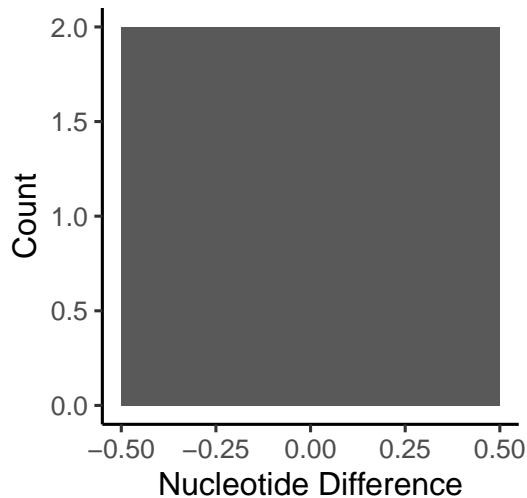
### IGHV1-58\*01

1 sequences assigned  
No exact matches.



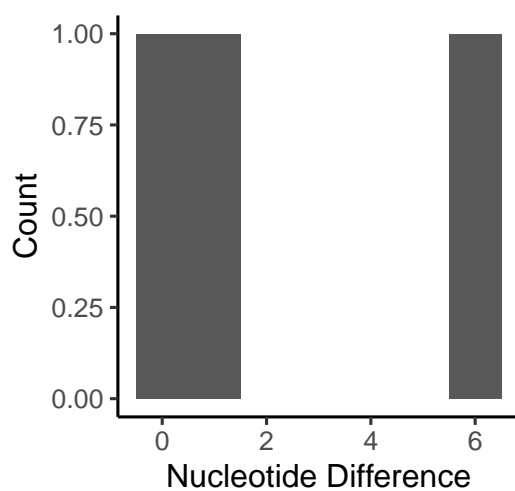
### IGHV1-3\*01

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



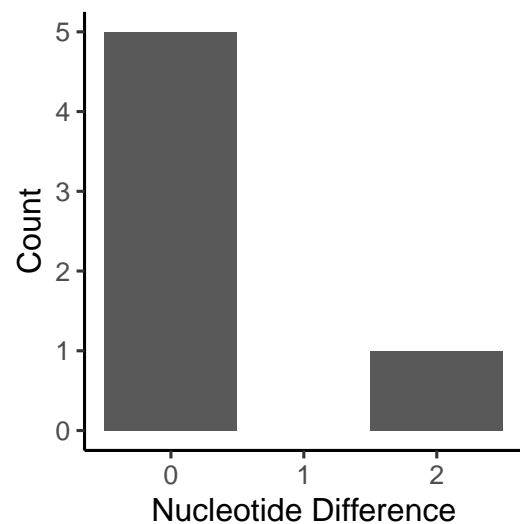
### IGHV1-24\*01

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



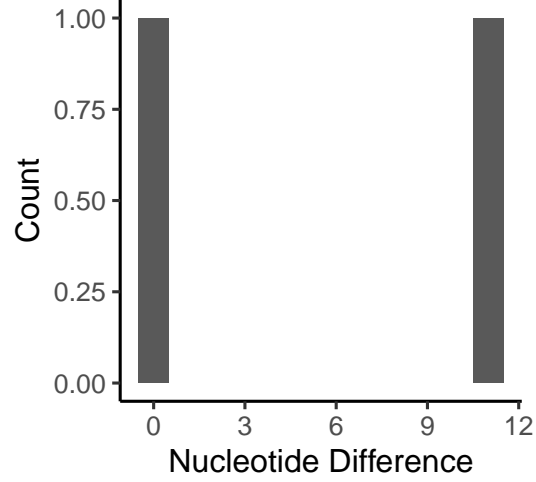
### IGHV2-5\*02

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



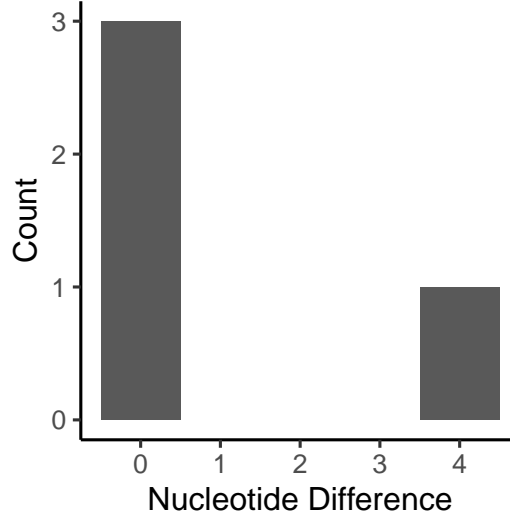
### IGHV2–26\*01

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



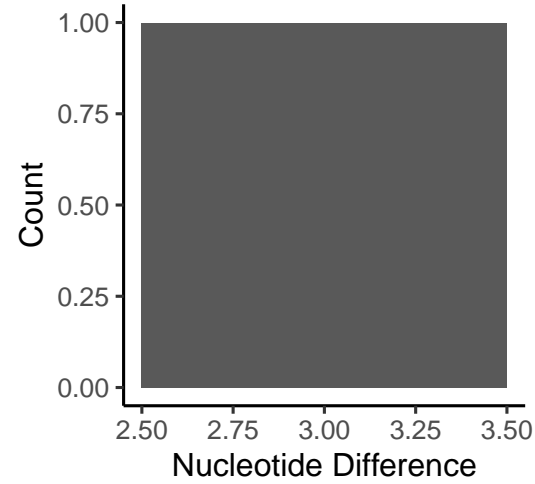
### IGHV3–9\*01

4 sequences assigned  
3 (75%) exact matches, in which:  
3 unique CDR3  
2 unique J



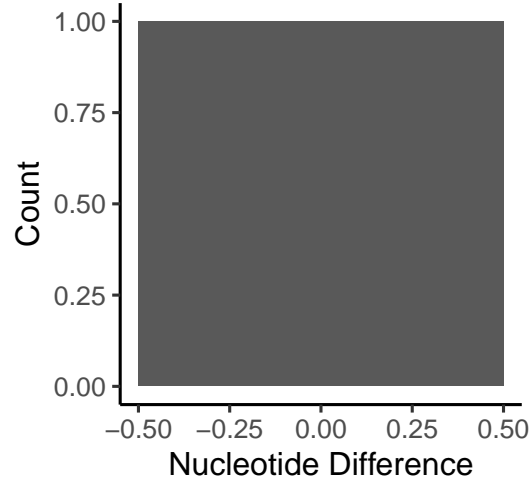
### IGHV3–20\*01

1 sequences assigned  
No exact matches.



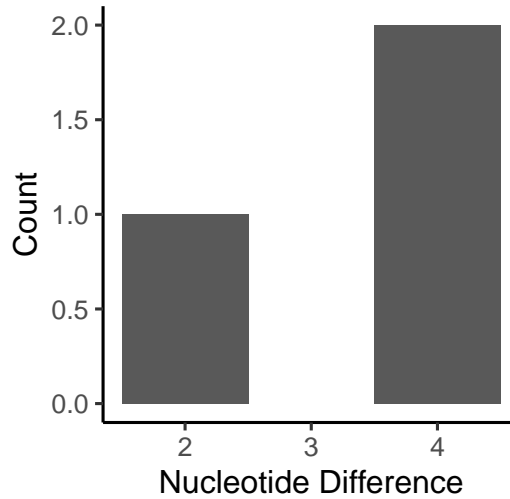
### IGHV2–70\*01

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



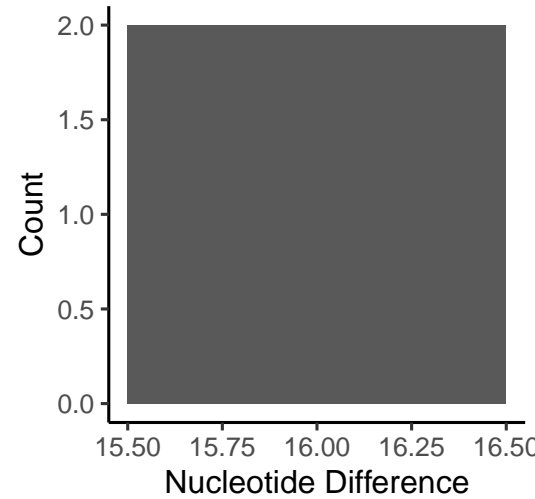
### IGHV3–11\*01

3 sequences assigned  
No exact matches.



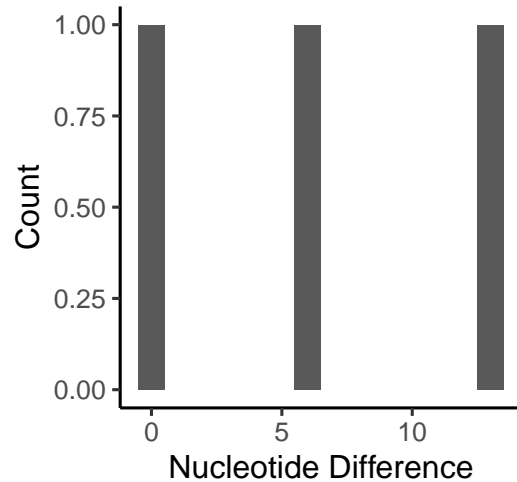
### IGHV3–33\*05

2 sequences assigned  
No exact matches.



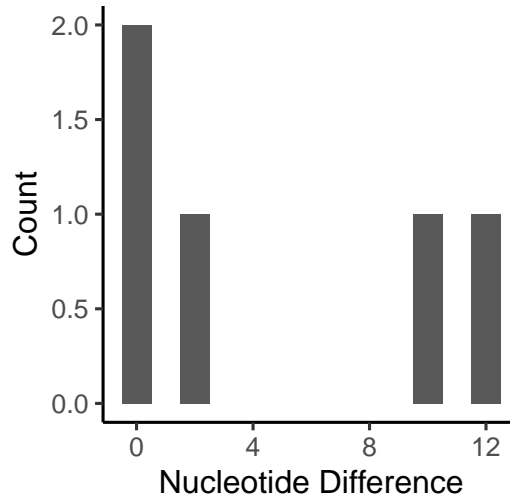
### IGHV3–7\*01

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



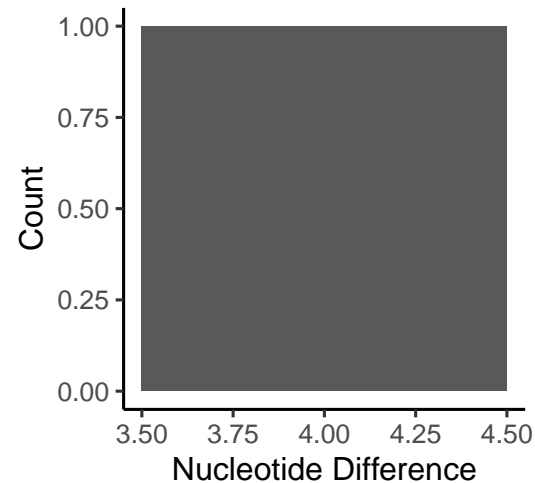
### IGHV3–15\*01

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



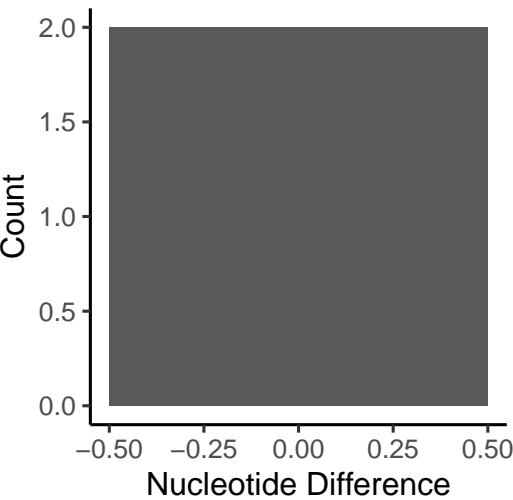
### IGHV3–43\*01

1 sequences assigned  
No exact matches.



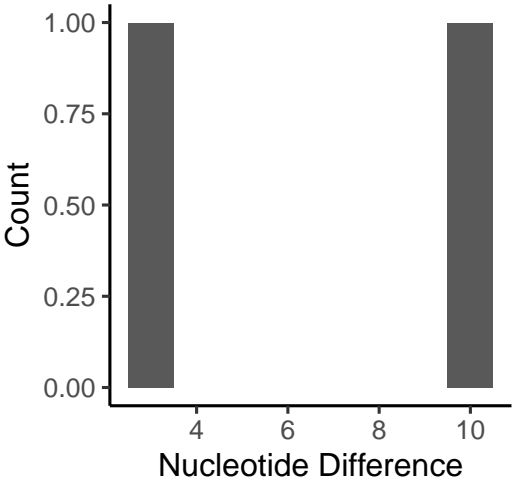
IGHV3-48\*02

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



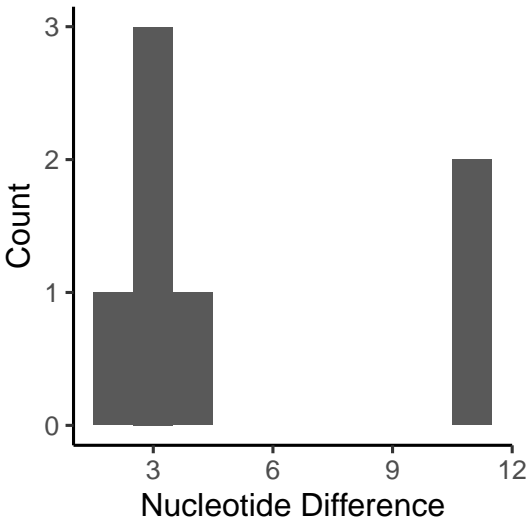
IGHV3-66\*01

2 sequences assigned  
No exact matches.



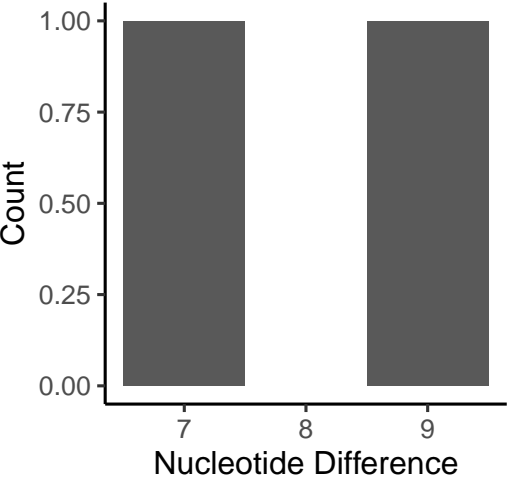
IGHV3-74\*01

7 sequences assigned  
No exact matches.



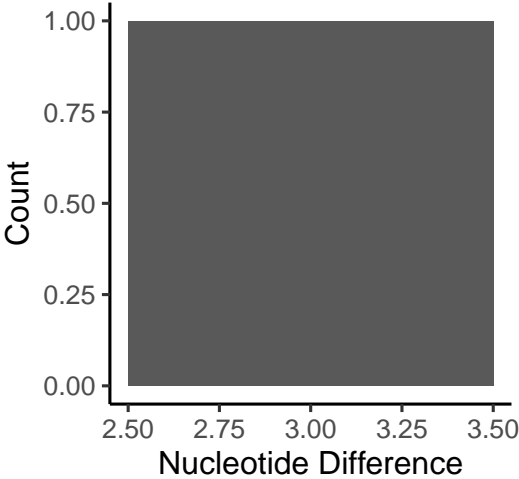
IGHV3-48\*04

2 sequences assigned  
No exact matches.



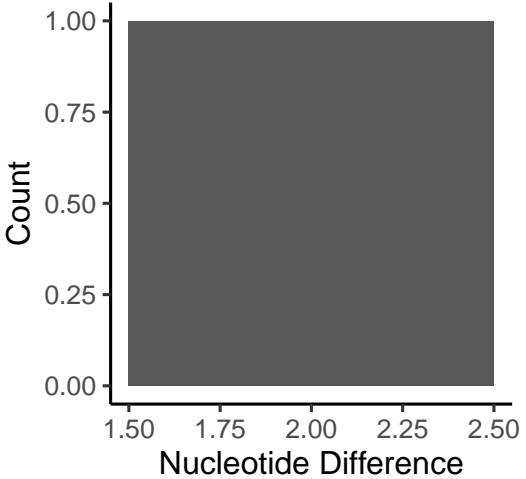
IGHV3-66\*04

1 sequences assigned  
No exact matches.



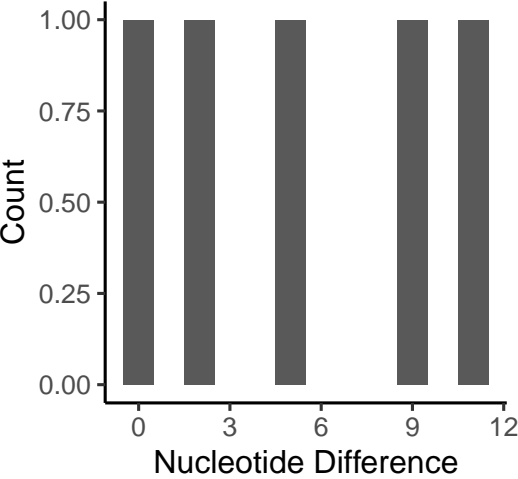
IGHV3-64D\*09

1 sequences assigned  
No exact matches.



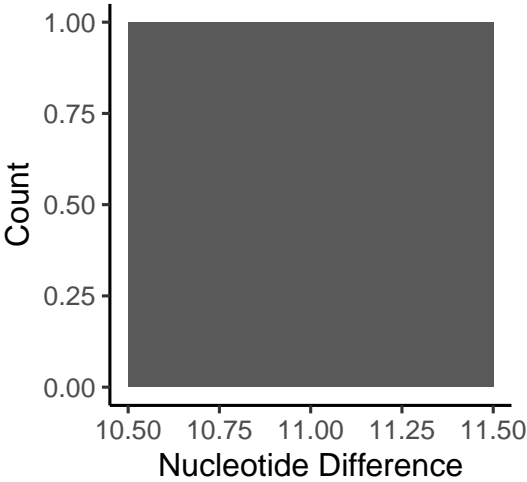
IGHV3-53\*01

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



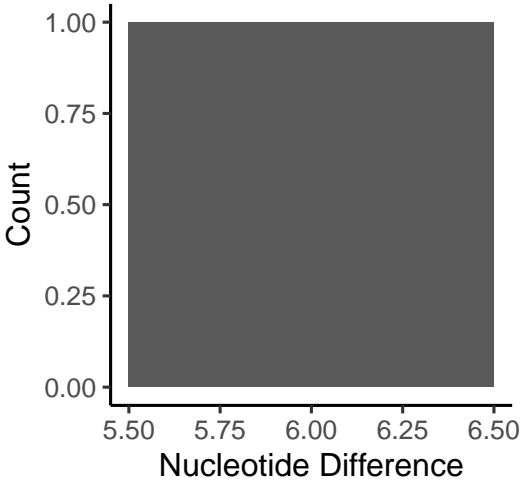
IGHV3-69-1\*02

1 sequences assigned  
No exact matches.



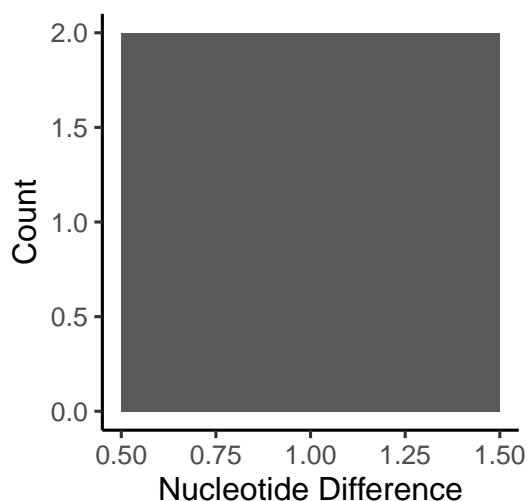
IGHV4-4\*07

1 sequences assigned  
No exact matches.



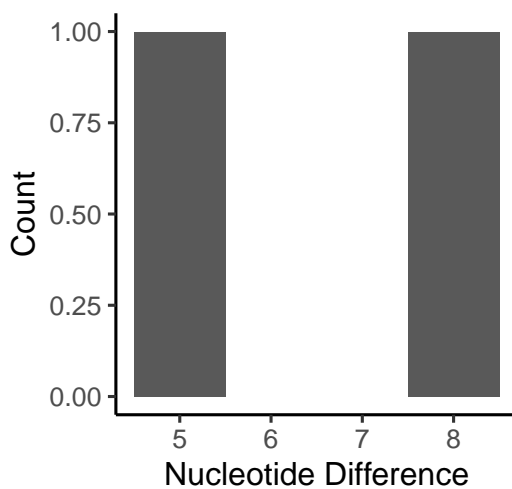
### IGHV4-30-2\*03

2 sequences assigned  
No exact matches.



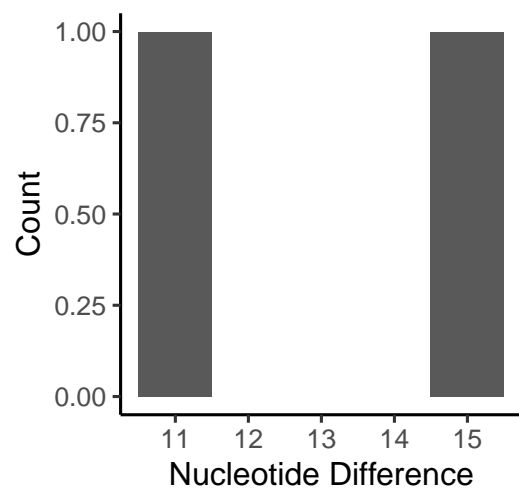
### IGHV4-38-2\*01

2 sequences assigned  
No exact matches.



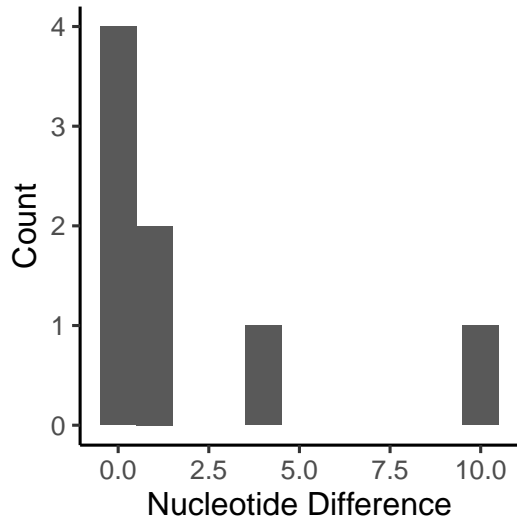
### IGHV4-59\*01

2 sequences assigned  
No exact matches.



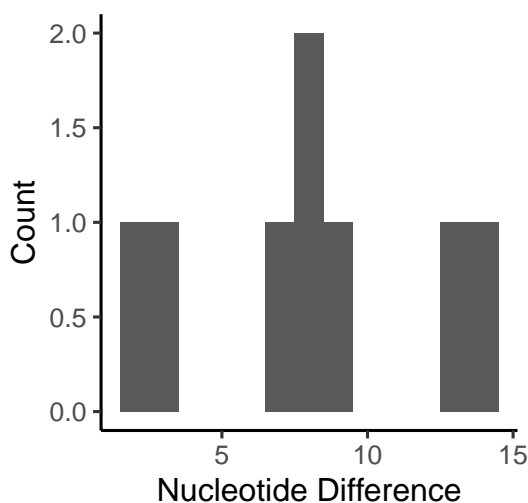
### IGHV4-31\*03

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



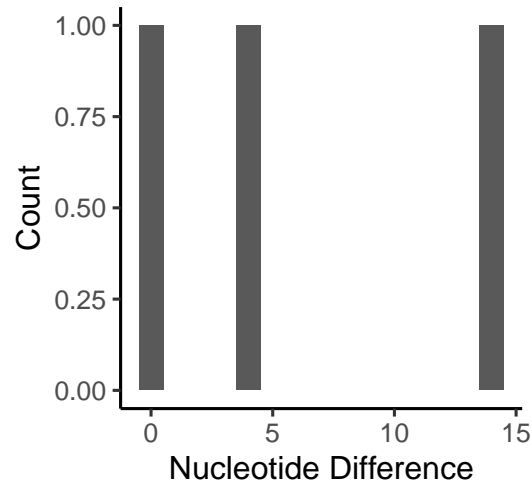
### IGHV4-38-2\*02

8 sequences assigned  
No exact matches.



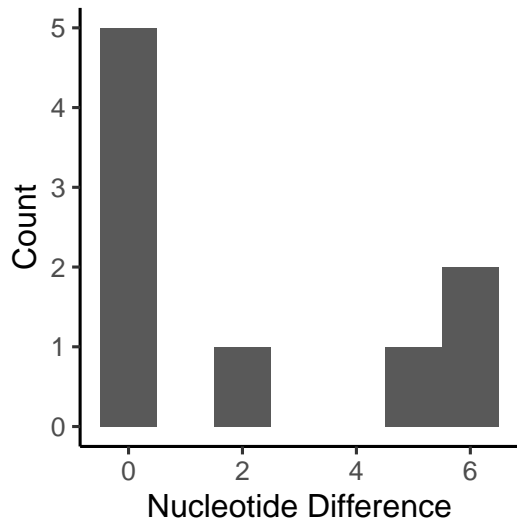
### IGHV4-59\*08

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



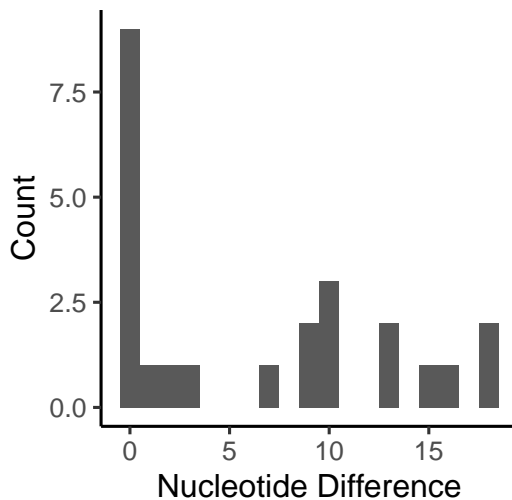
### IGHV4-34\*01

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



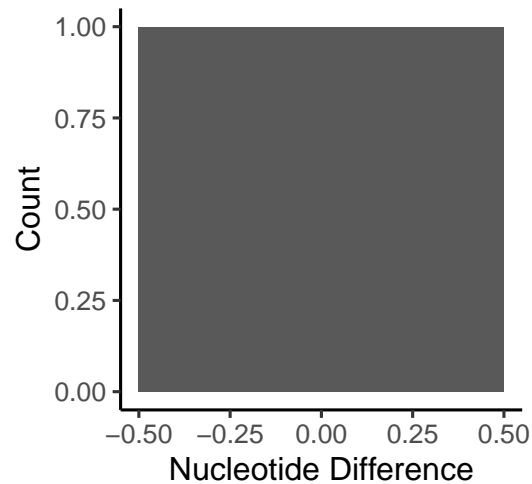
### IGHV4-39\*07

28 sequences assigned  
9 (32.1%) exact matches, in which:  
9 unique CDR3  
5 unique J



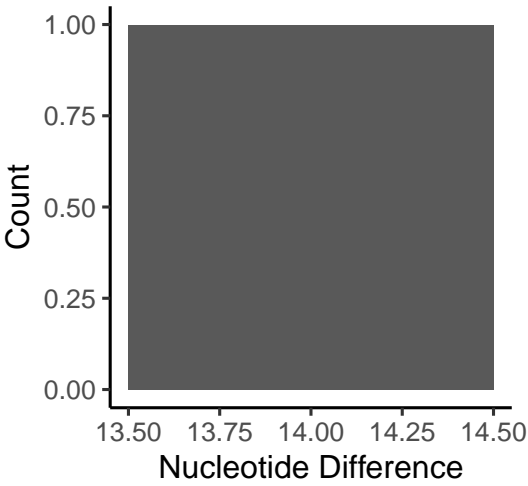
### IGHV4-59\*09

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



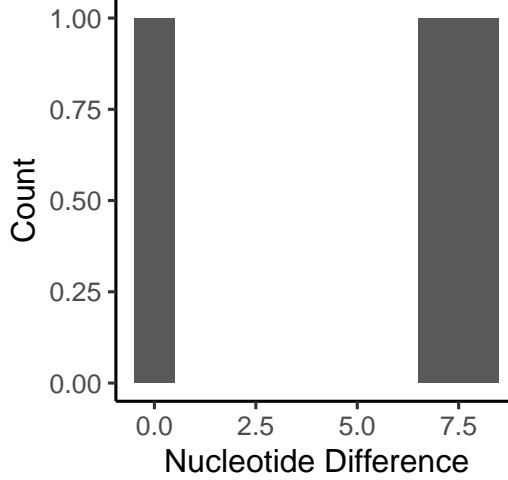
### IGHV4-61\*01

1 sequences assigned  
No exact matches.



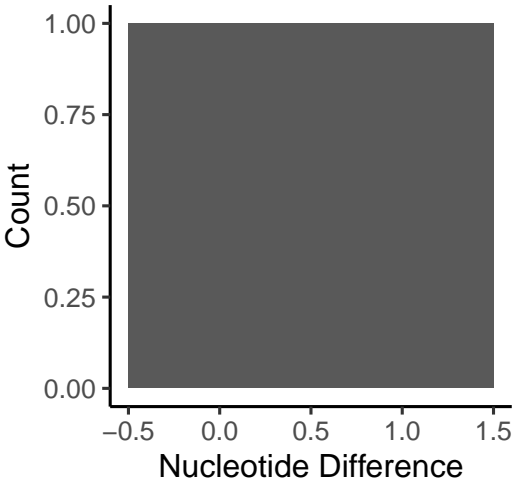
### IGHV6-1\*01

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



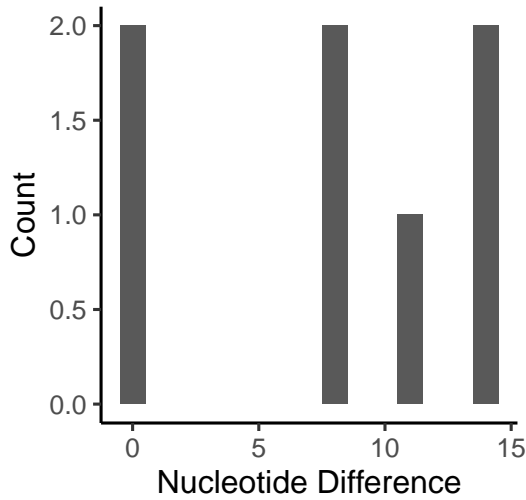
### IGHV5-10-1\*01

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



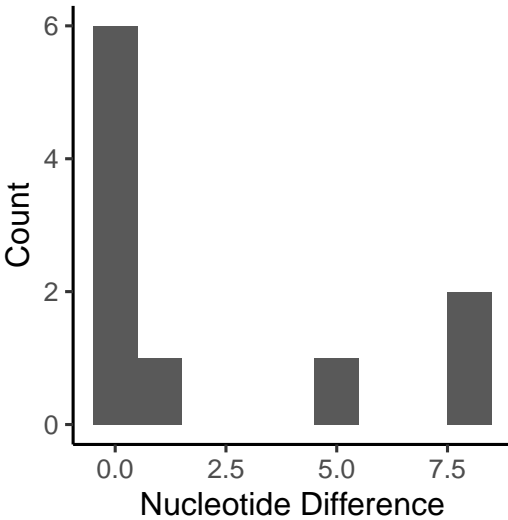
### IGHV7-4-1\*02

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

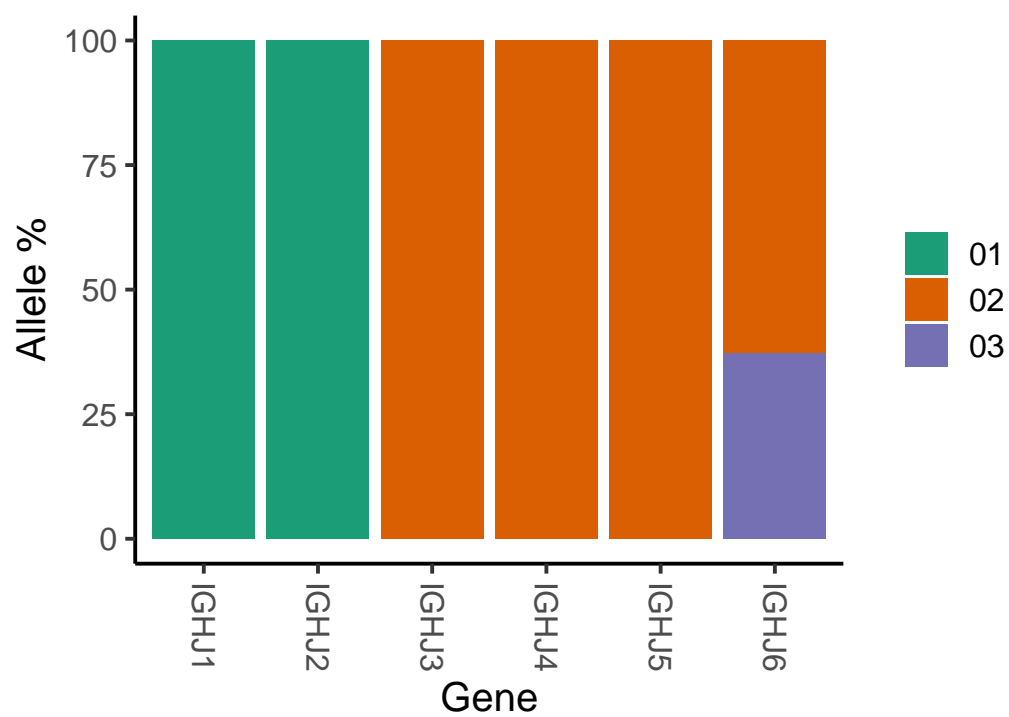


### IGHV5-51\*01

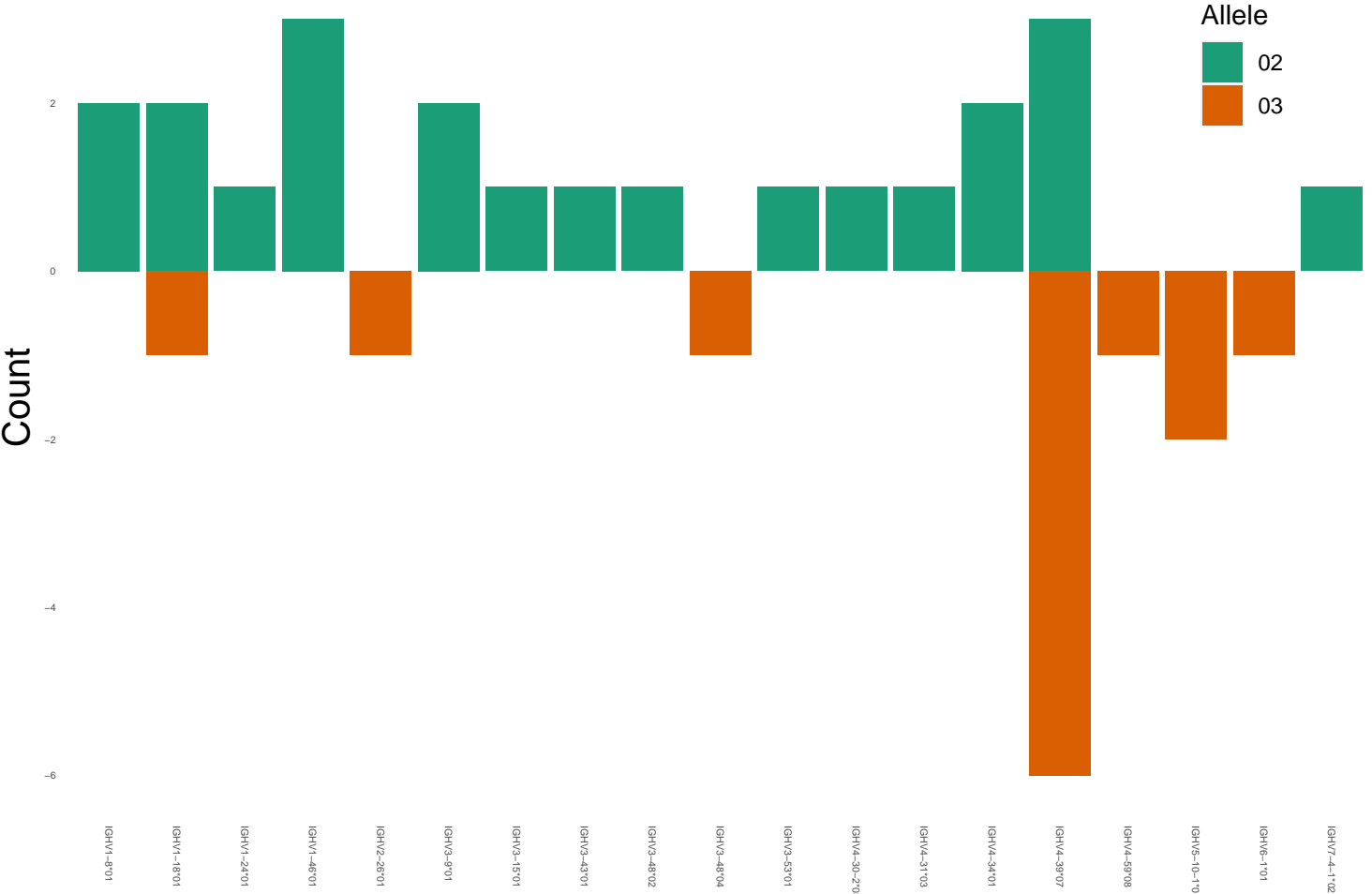
10 sequences assigned  
6 (60%) exact matches, in which:  
6 unique CDR3  
3 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.