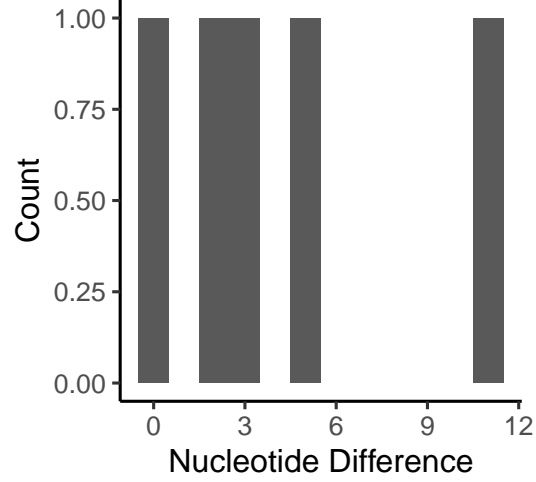


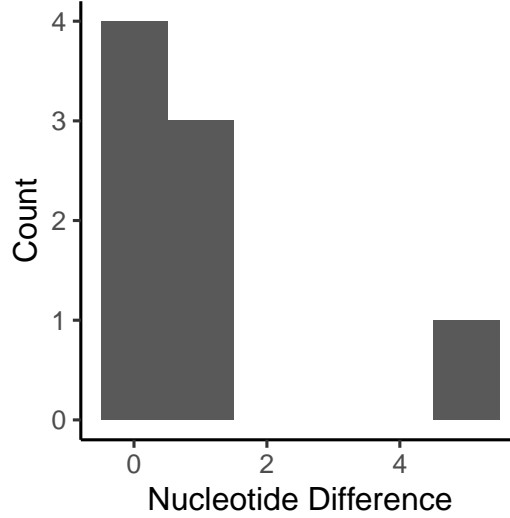
### IGHV1–2\*02

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



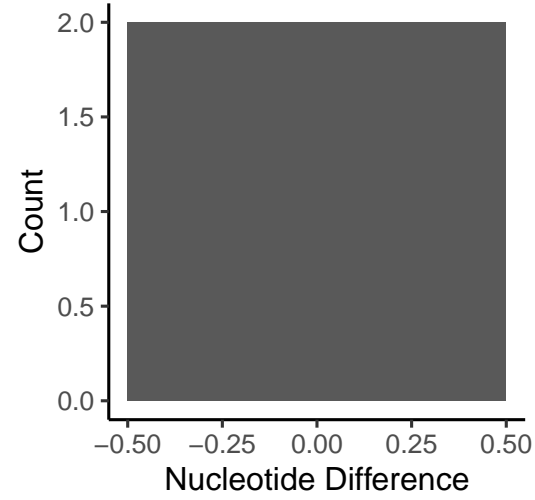
### IGHV1–18\*01

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



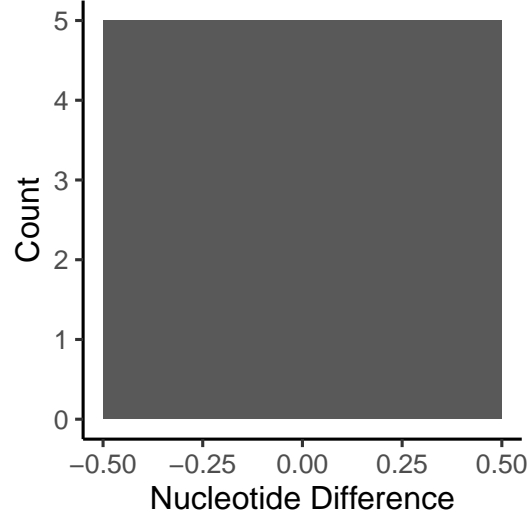
### IGHV1–69\*06

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



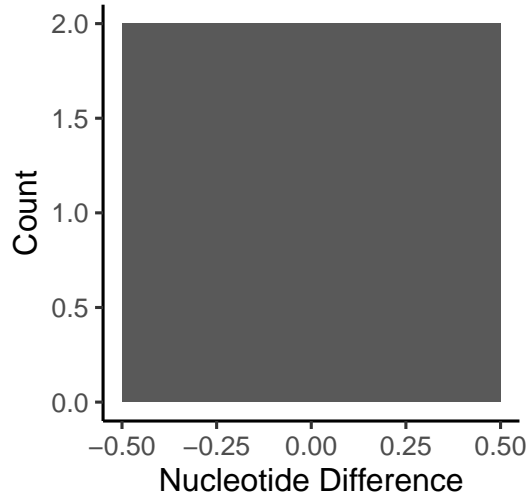
### IGHV1–3\*01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
2 unique J



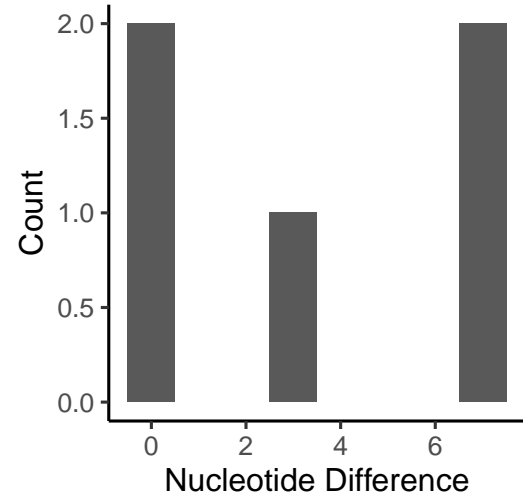
### IGHV1–24\*01

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



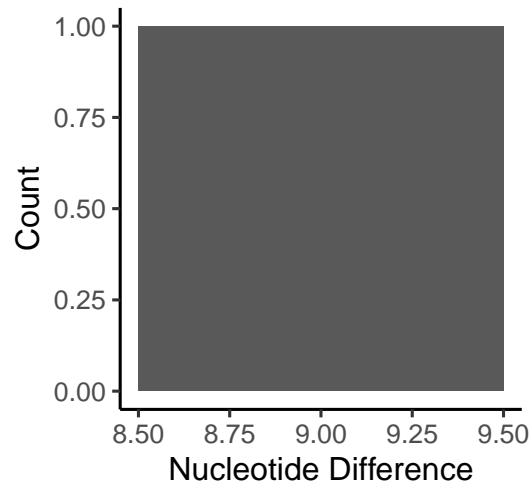
### IGHV2–5\*02

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



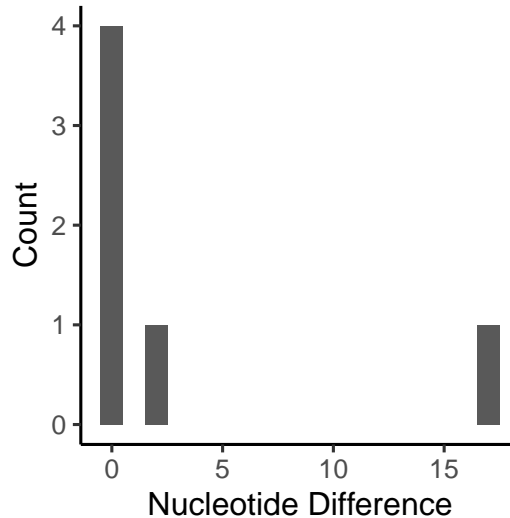
### IGHV1–3\*04

1 sequences assigned  
No exact matches.



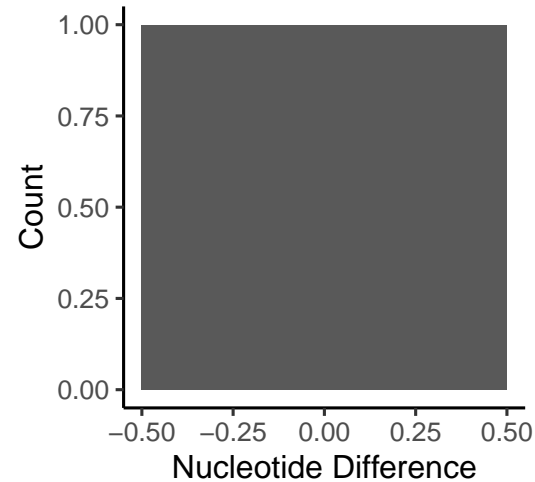
### IGHV1–46\*01

6 sequences assigned  
4 (66.7%) exact matches, in which:  
4 unique CDR3  
3 unique J



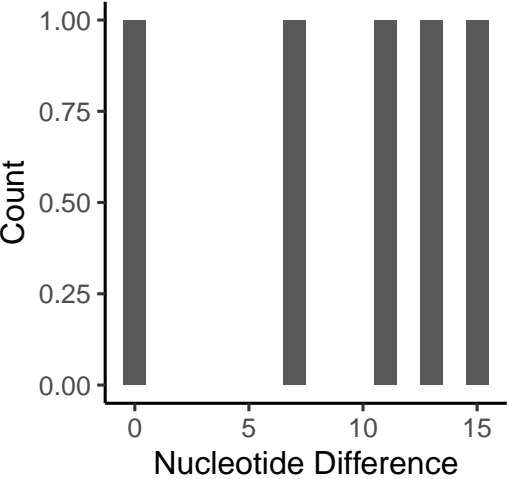
### IGHV2–26\*01

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



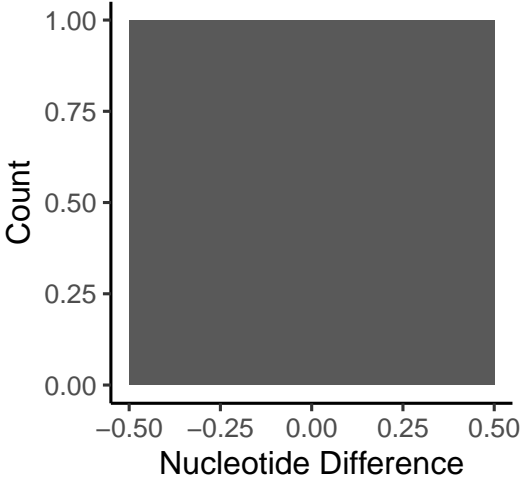
IGHV3-7\*01

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



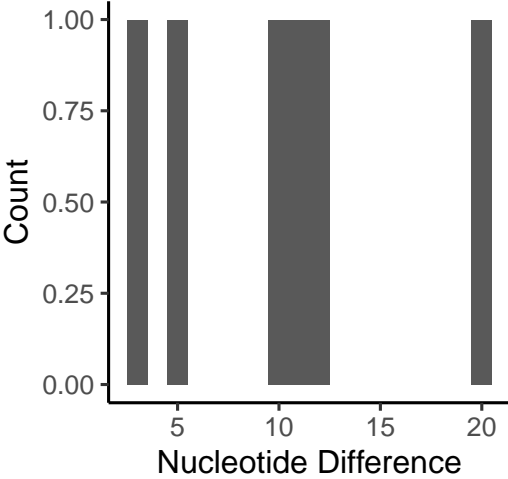
IGHV3-9\*01

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



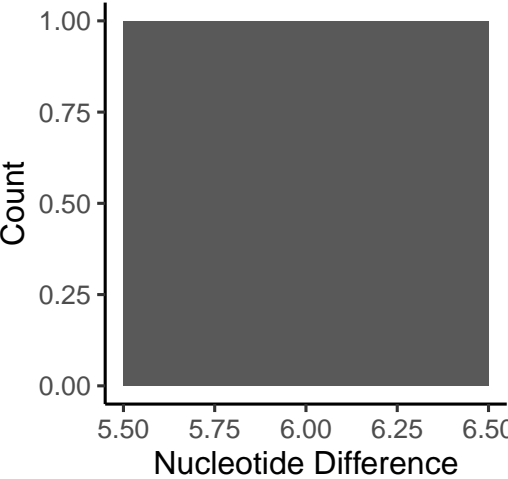
IGHV3-15\*01

6 sequences assigned  
No exact matches.



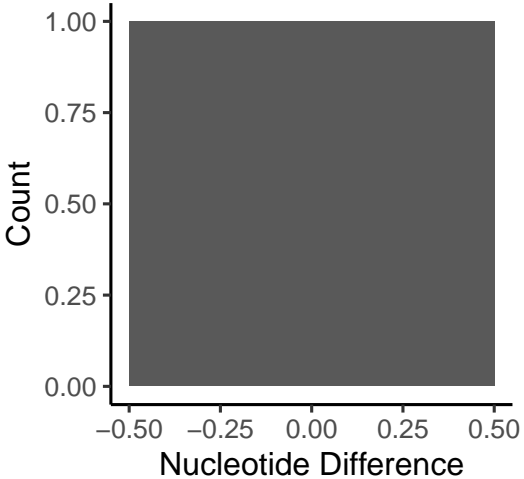
IGHV3-7\*03

1 sequences assigned  
No exact matches.



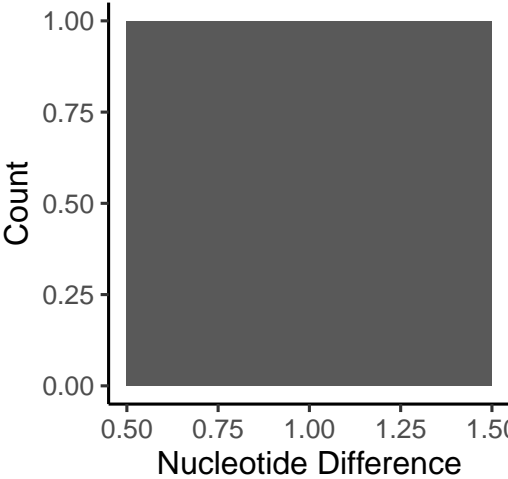
IGHV3-13\*01

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



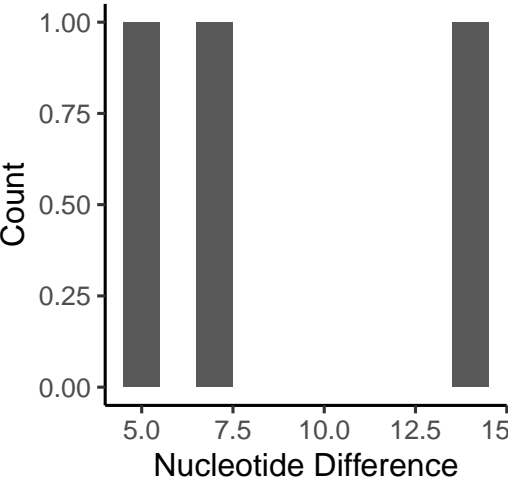
IGHV3-21\*01

1 sequences assigned  
No exact matches.



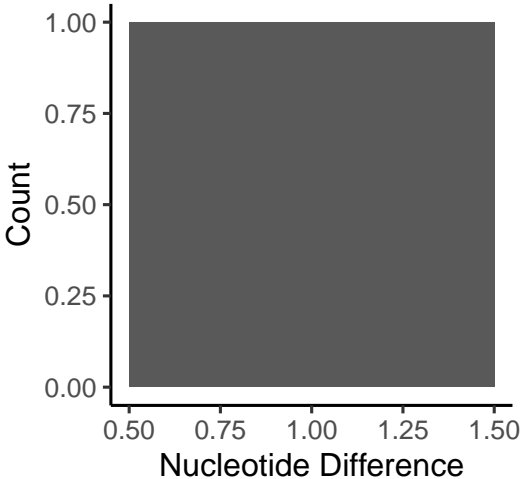
IGHV3-7\*05

3 sequences assigned  
No exact matches.



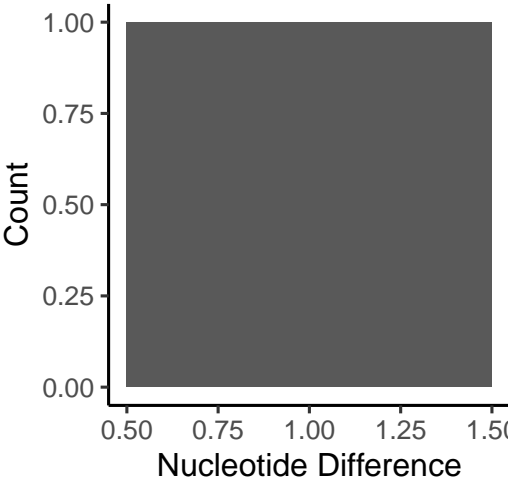
IGHV3-13\*02

1 sequences assigned  
No exact matches.



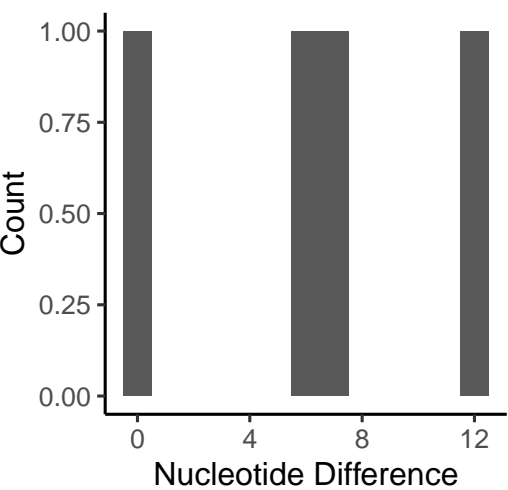
IGHV3-30-3\*01

1 sequences assigned  
No exact matches.



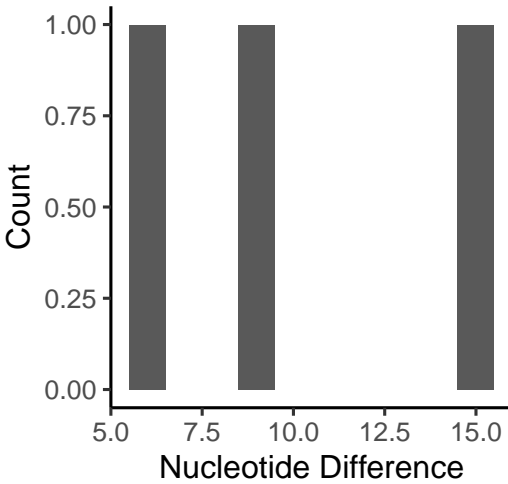
IGHV3-33\*01

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



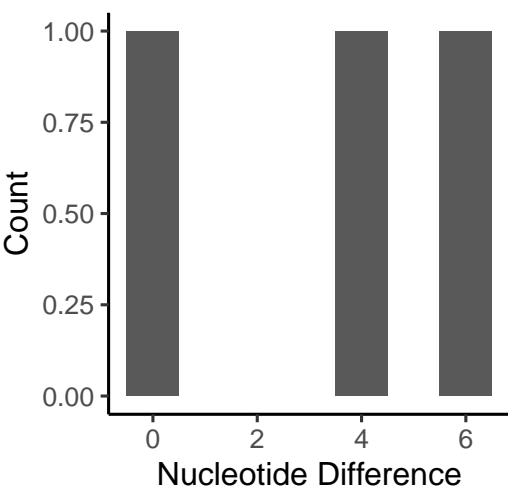
IGHV3-48\*04

3 sequences assigned  
No exact matches.



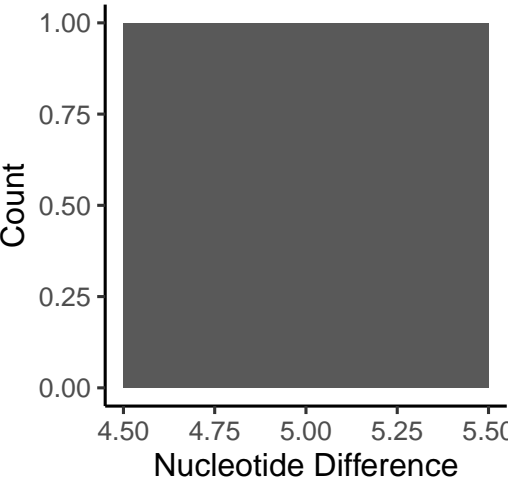
IGHV3-66\*01

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



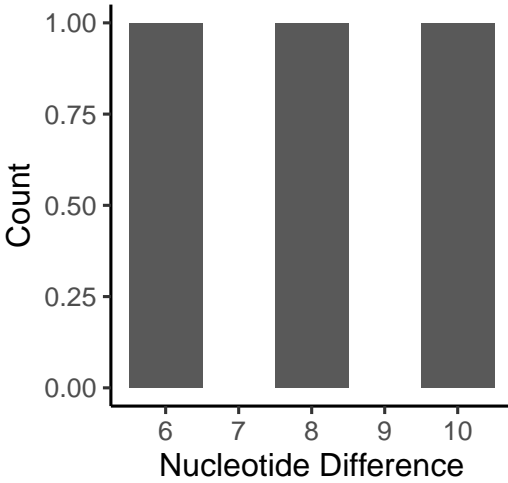
IGHV3-33\*06

1 sequences assigned  
No exact matches.



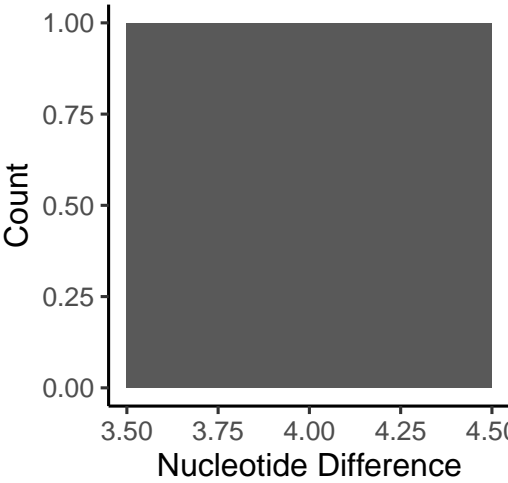
IGHV3-49\*05

3 sequences assigned  
No exact matches.



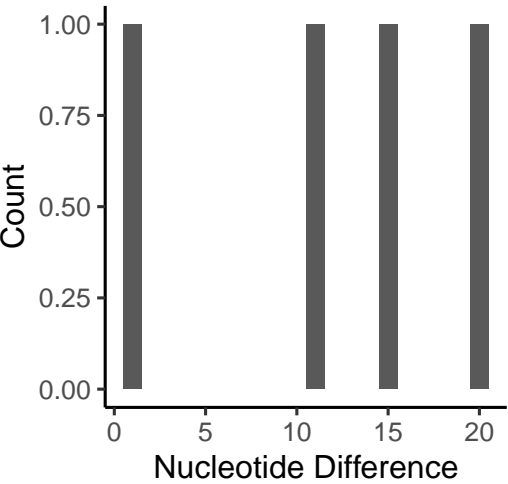
IGHV3-72\*01

1 sequences assigned  
No exact matches.



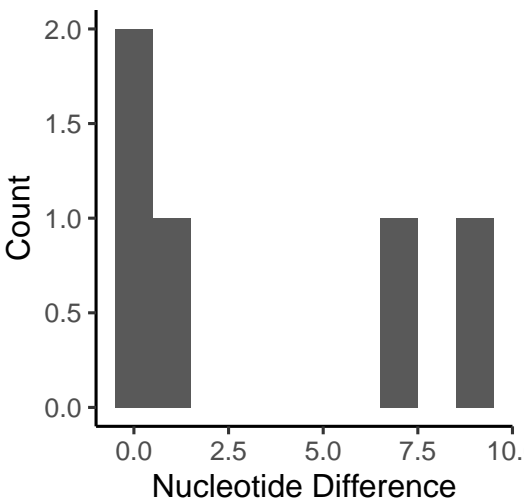
IGHV3-48\*02

4 sequences assigned  
No exact matches.



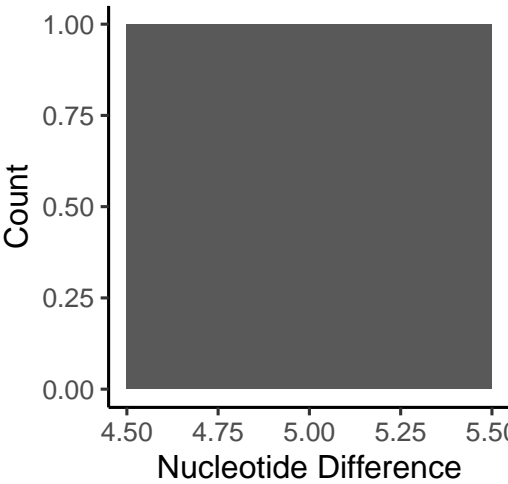
IGHV3-53\*01

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



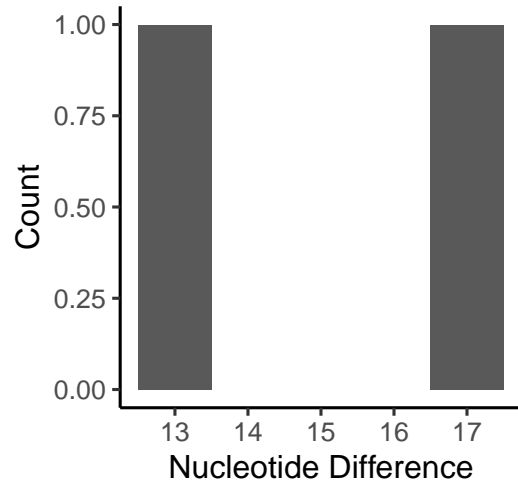
IGHV3-74\*01

1 sequences assigned  
No exact matches.



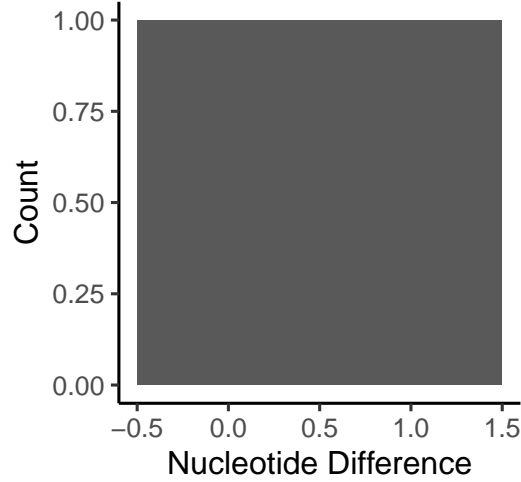
### IGHV3-74\*03

2 sequences assigned  
No exact matches.



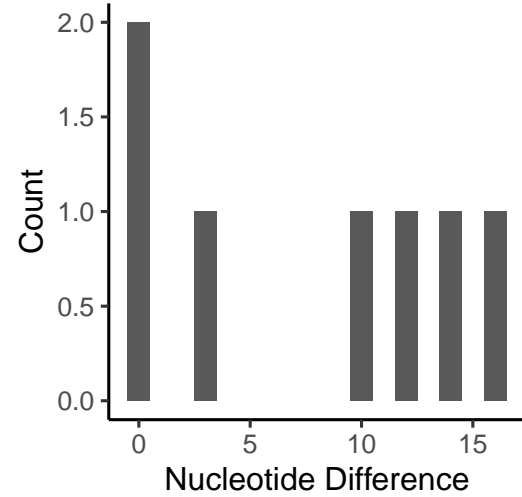
### IGHV4-31\*03

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



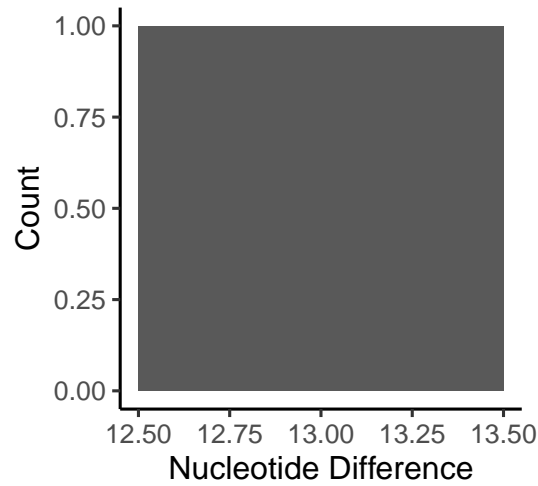
### IGHV4-39\*07

10 sequences assigned  
2 (20%) exact matches, in which:  
2 unique CDR3  
1 unique J



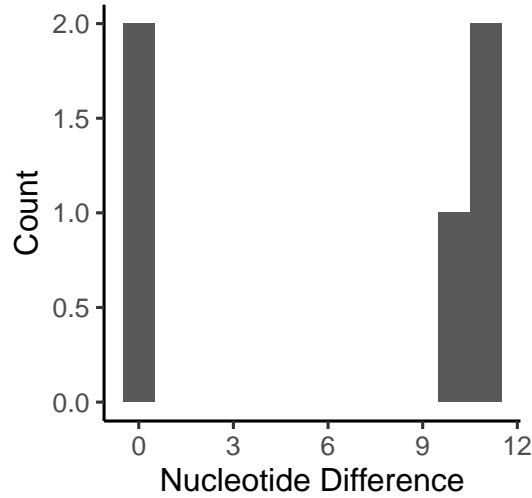
### IGHV3-64D\*09

1 sequences assigned  
No exact matches.



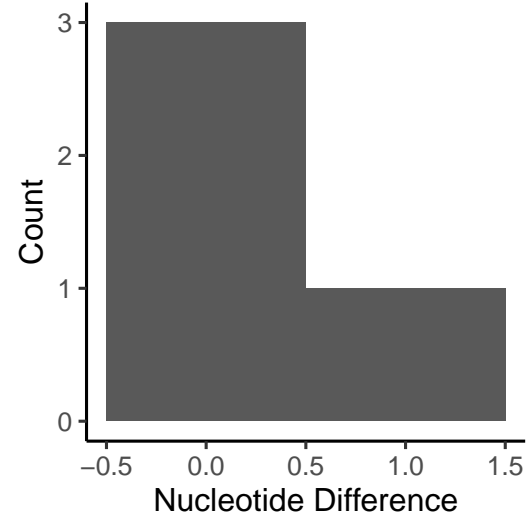
### IGHV4-34\*01

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



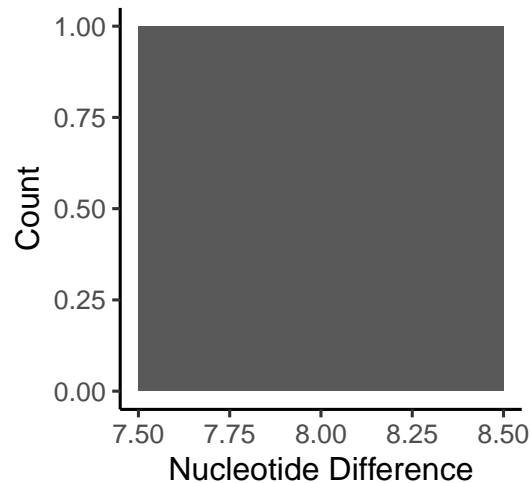
### IGHV4-59\*01

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



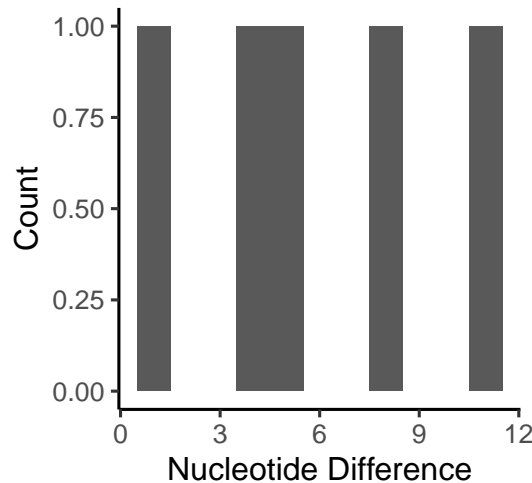
### IGHV4-4\*07

1 sequences assigned  
No exact matches.



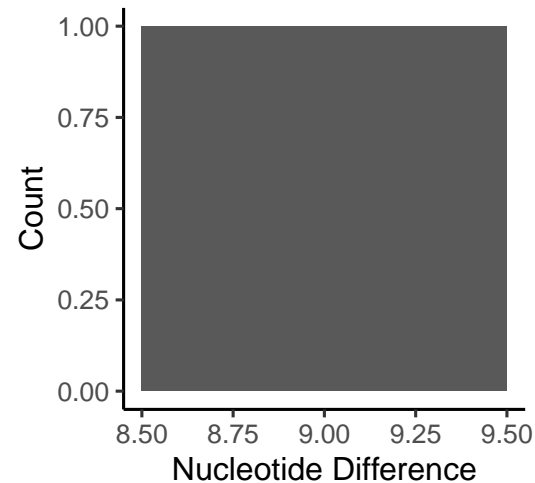
### IGHV4-38-2\*02

5 sequences assigned  
No exact matches.



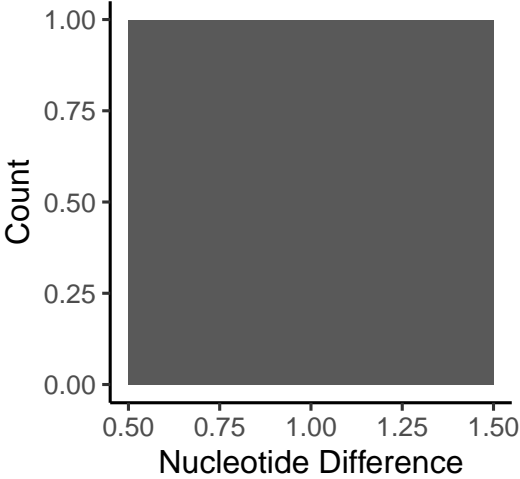
### IGHV4-59\*08

2 sequences assigned  
No exact matches.



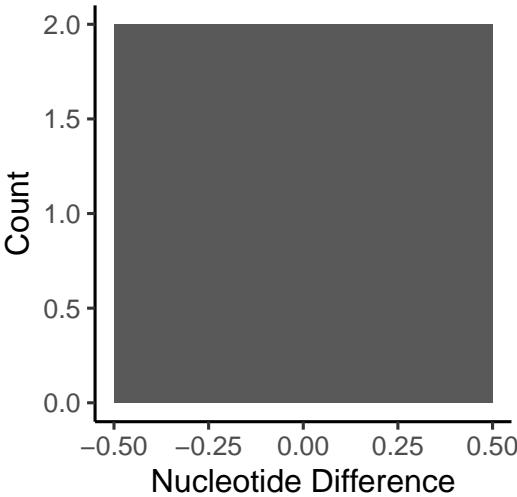
IGHV4-61\*01

1 sequences assigned  
No exact matches.



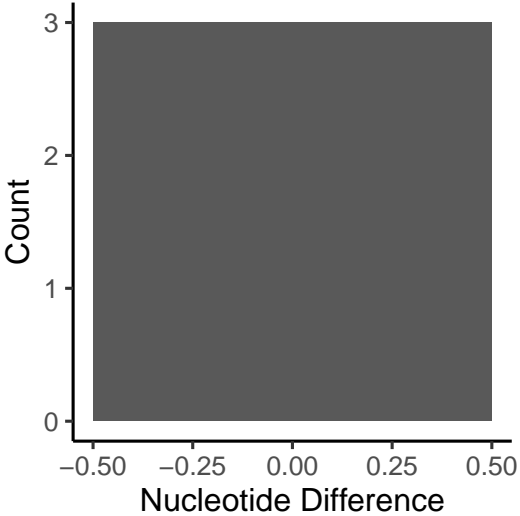
IGHV6-1\*01

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



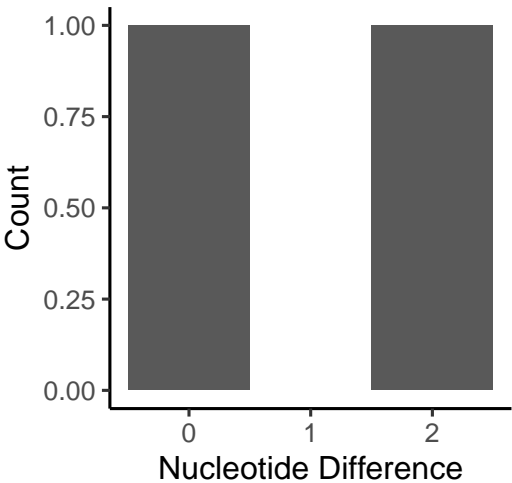
IGHV5-10-1\*01

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



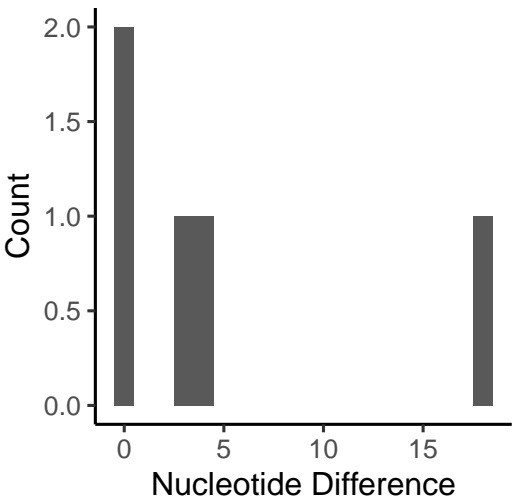
IGHV7-4-1\*02

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

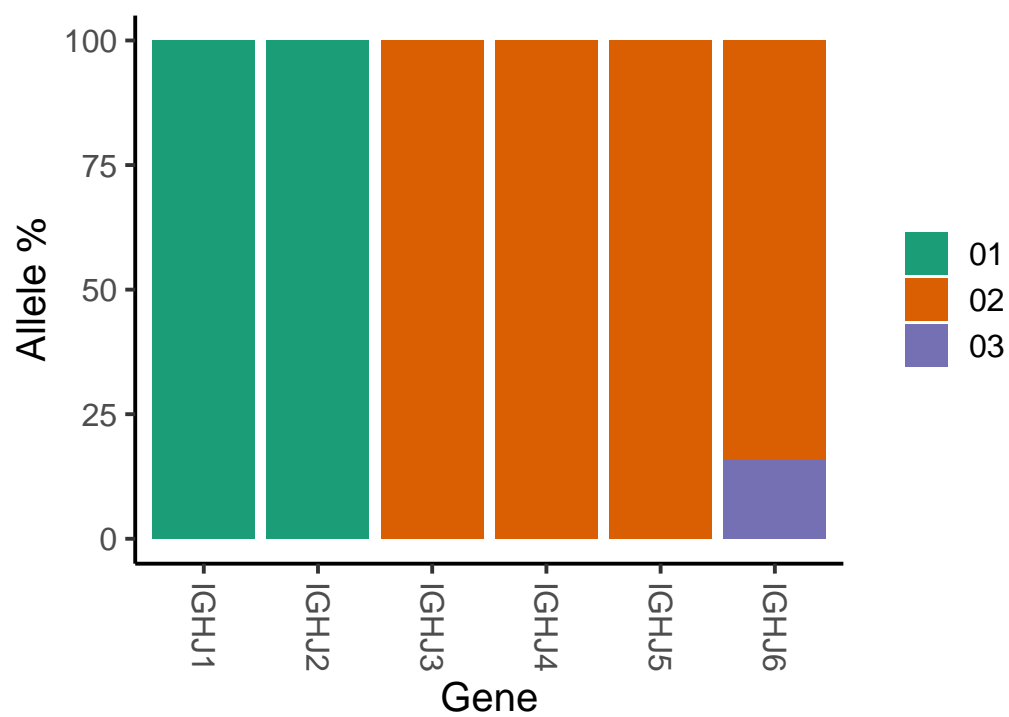


IGHV5-51\*01

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



Allele Usage



Warning – no inferred sequences found.