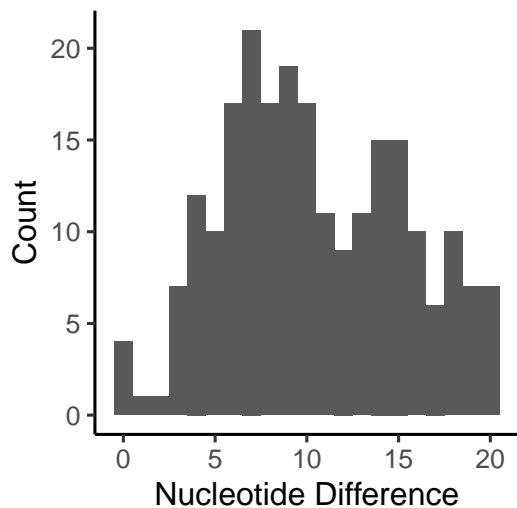


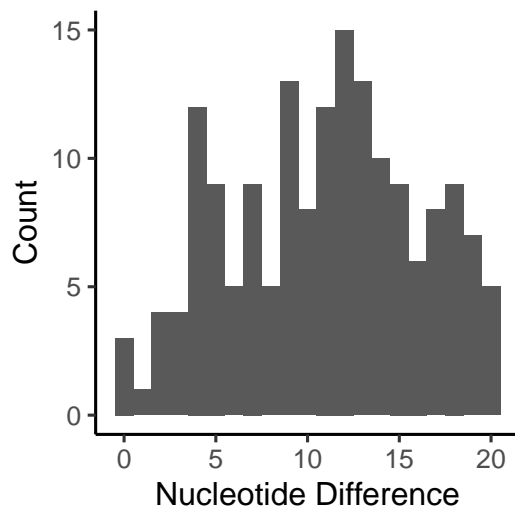
### IGHV1-2\*02

266 sequences assigned  
4 (1.5%) exact matches, in which:  
2 unique CDR3  
2 unique J



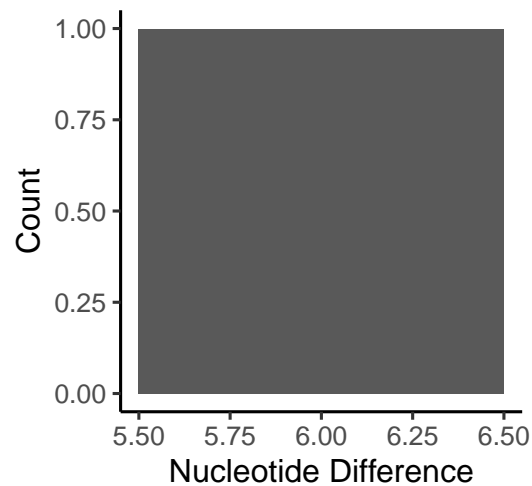
### IGHV1-18\*01

214 sequences assigned  
3 (1.4%) exact matches, in which:  
3 unique CDR3  
2 unique J



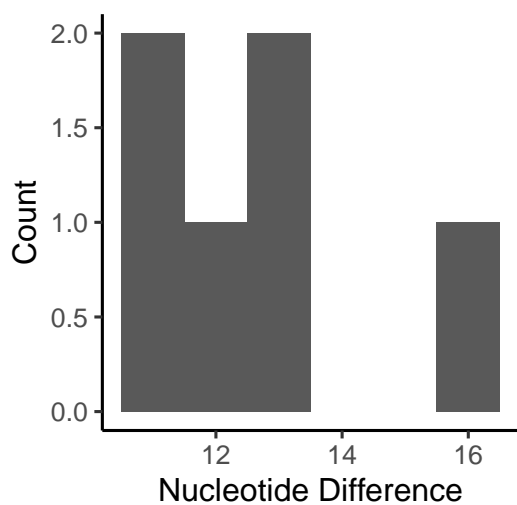
### IGHV1-45\*02

1 sequences assigned  
No exact matches.



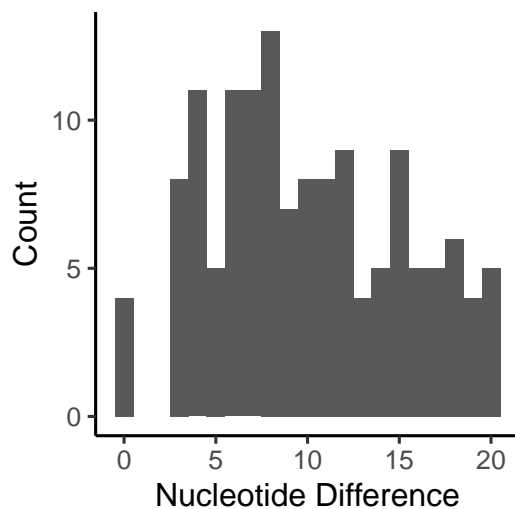
### IGHV1-3\*04

9 sequences assigned  
No exact matches.



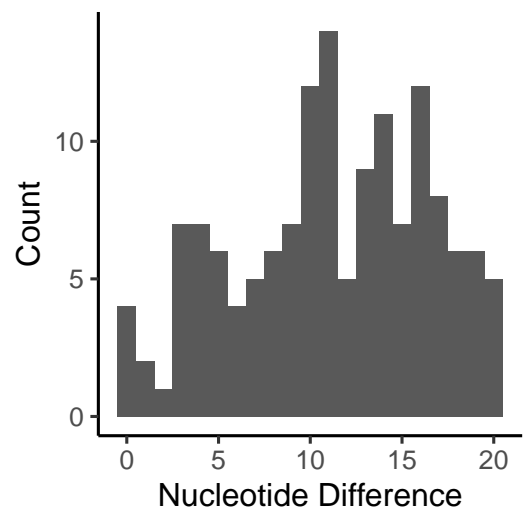
### IGHV1-18\*04

153 sequences assigned  
4 (2.6%) exact matches, in which:  
4 unique CDR3  
2 unique J



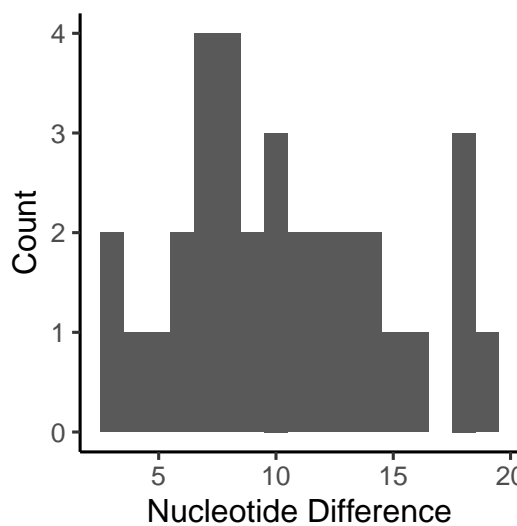
### IGHV1-46\*01

182 sequences assigned  
4 (2.2%) exact matches, in which:  
4 unique CDR3  
3 unique J



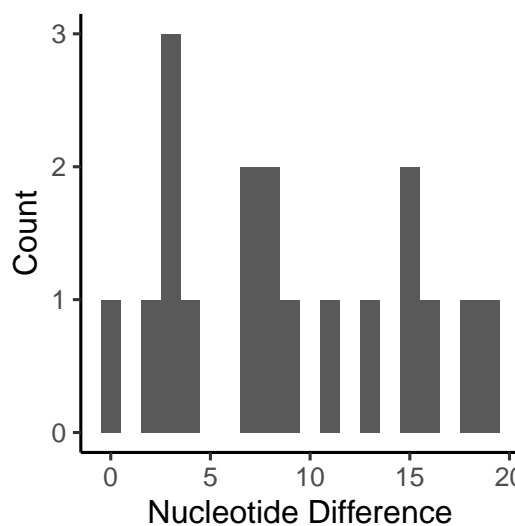
### IGHV1-3\*01\_05

37 sequences assigned  
No exact matches.



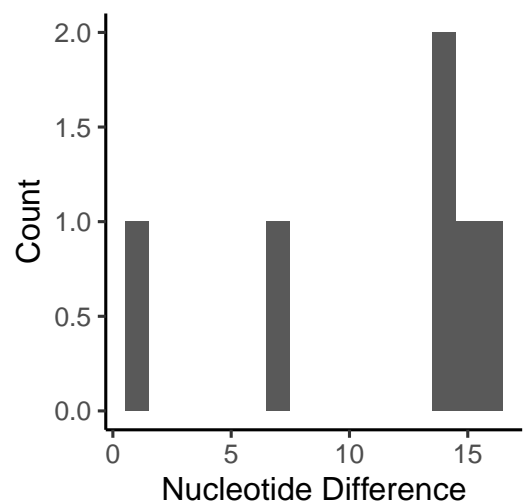
### IGHV1-24\*01

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



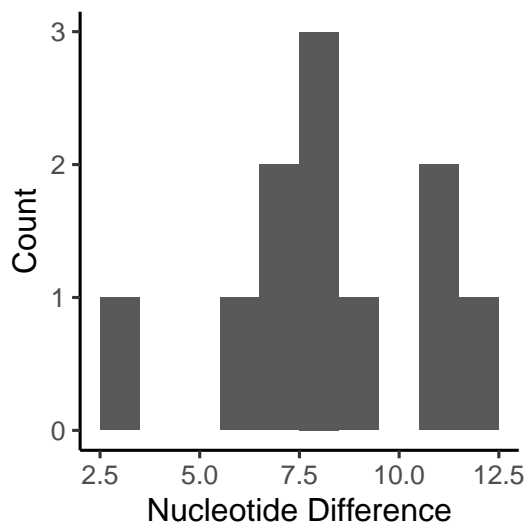
### IGHV1-58\*02

6 sequences assigned  
No exact matches.



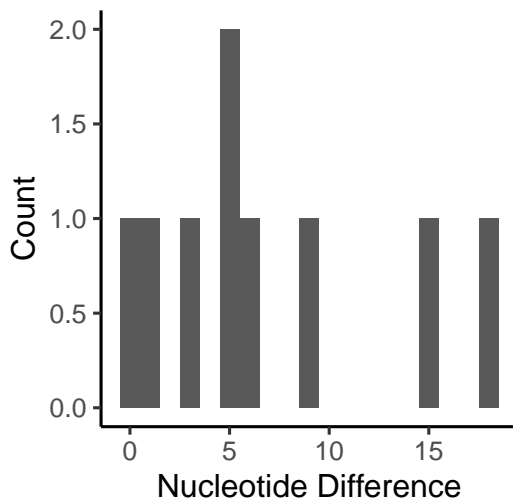
### IGHV1–58\*01\_03

12 sequences assigned  
No exact matches.



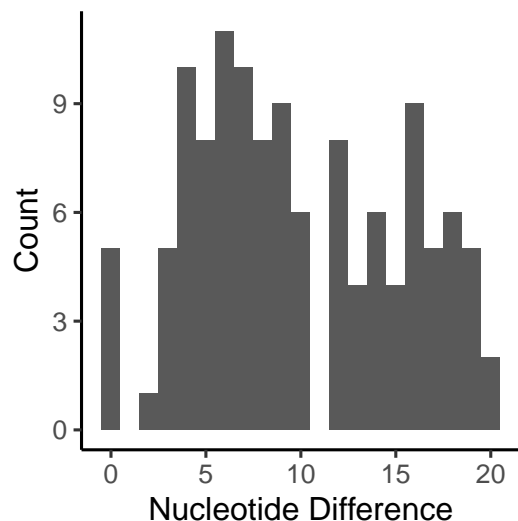
### IGHV2–26\*01

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



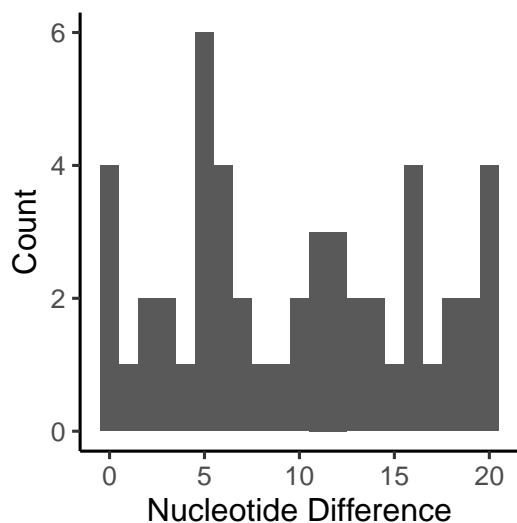
### IGHV3–11\*06

137 sequences assigned  
5 (3.6%) exact matches, in which:  
4 unique CDR3  
2 unique J



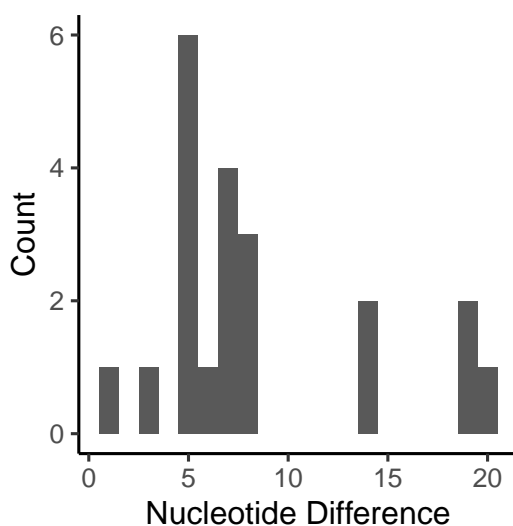
### IGHV1–69\*06\_14

68 sequences assigned  
4 (5.9%) exact matches, in which:  
4 unique CDR3  
3 unique J



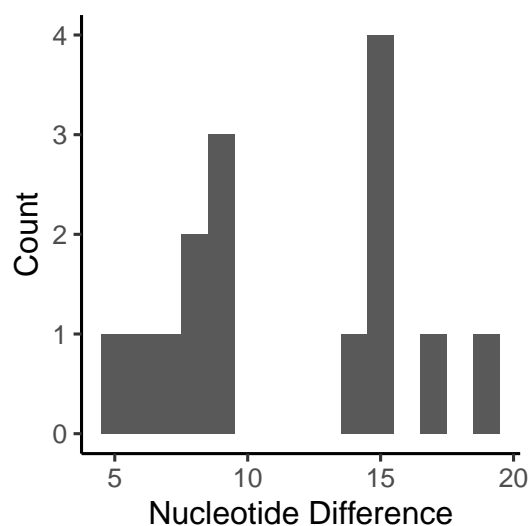
### IGHV2–70\*01

22 sequences assigned  
No exact matches.



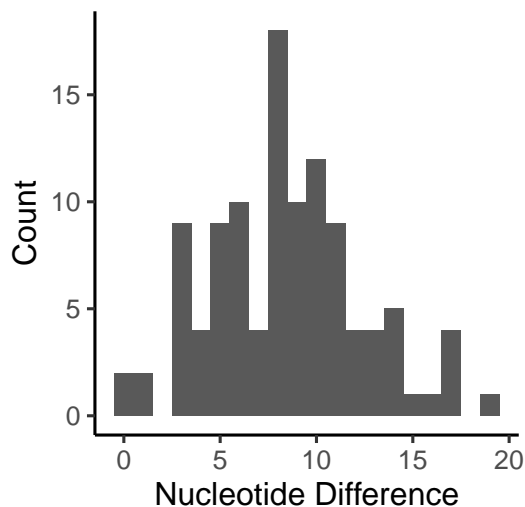
### IGHV3–13\*05

29 sequences assigned  
No exact matches.



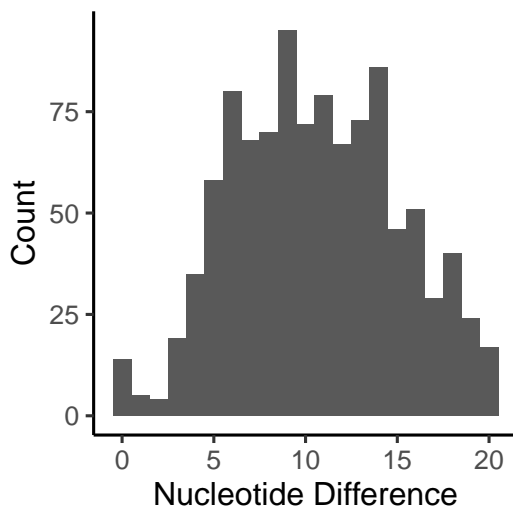
### IGHV2–5\*02

116 sequences assigned  
2 (1.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



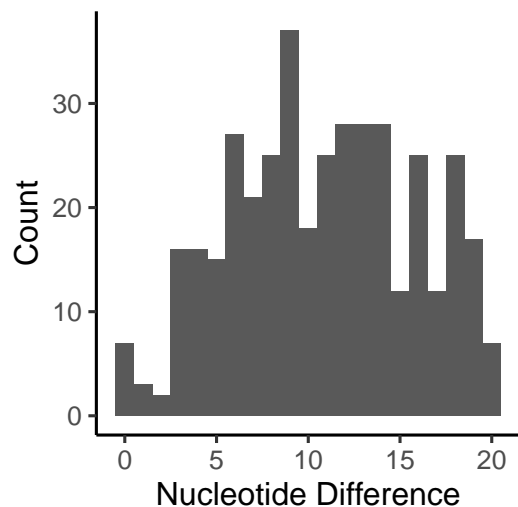
### IGHV3–7\*03

1111 sequences assigned  
14 (1.3%) exact matches, in which:  
12 unique CDR3  
3 unique J



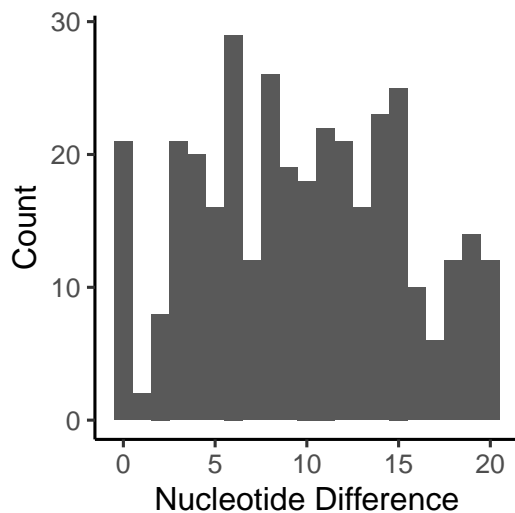
### IGHV3–15\*01\_02

435 sequences assigned  
7 (1.6%) exact matches, in which:  
6 unique CDR3  
3 unique J



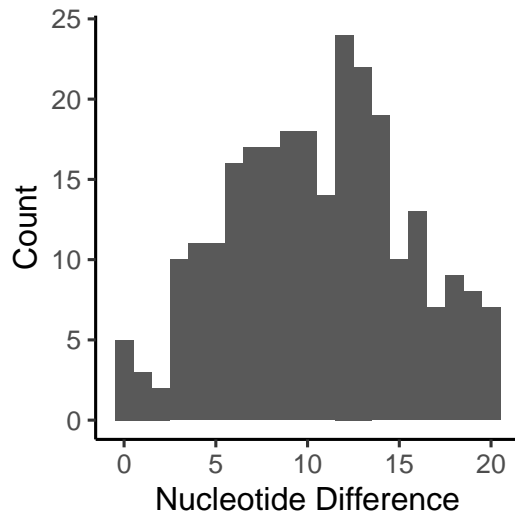
### IGHV3-21\*01\_02

422 sequences assigned  
21 (5%) exact matches, in which:  
16 unique CDR3  
4 unique J



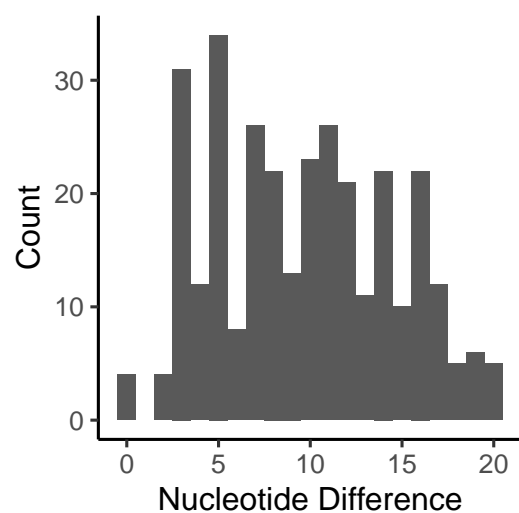
### IGHV3-33\*01

291 sequences assigned  
5 (1.7%) exact matches, in which:  
5 unique CDR3  
4 unique J



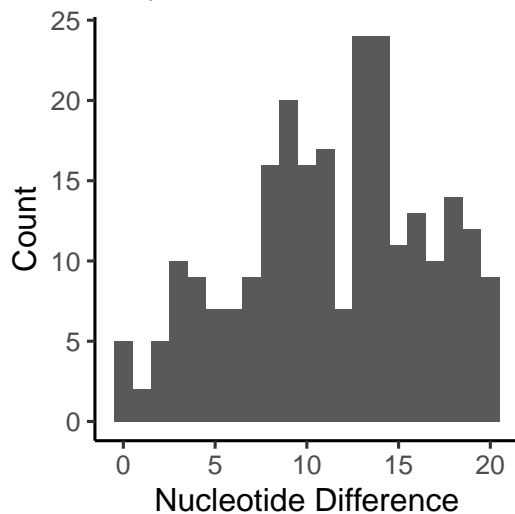
### IGHV3-48\*03

357 sequences assigned  
4 (1.1%) exact matches, in which:  
4 unique CDR3  
3 unique J



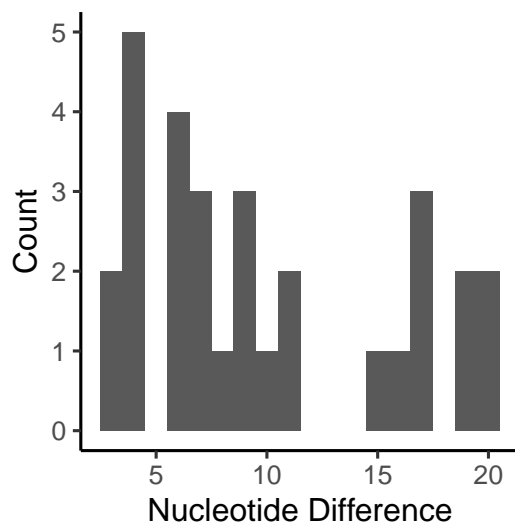
### IGHV3-30\*01

267 sequences assigned  
5 (1.9%) exact matches, in which:  
3 unique CDR3  
2 unique J



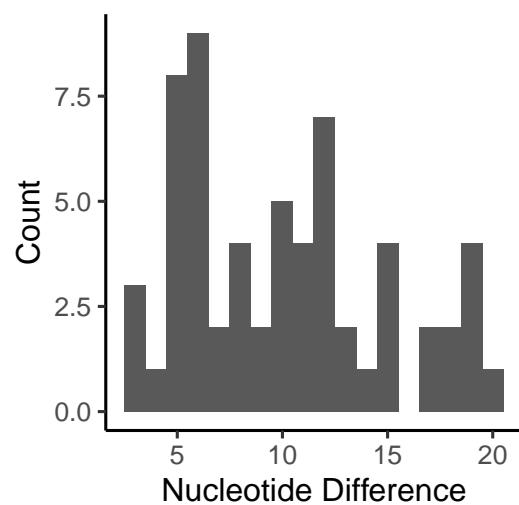
### IGHV3-43\*01

33 sequences assigned  
No exact matches.



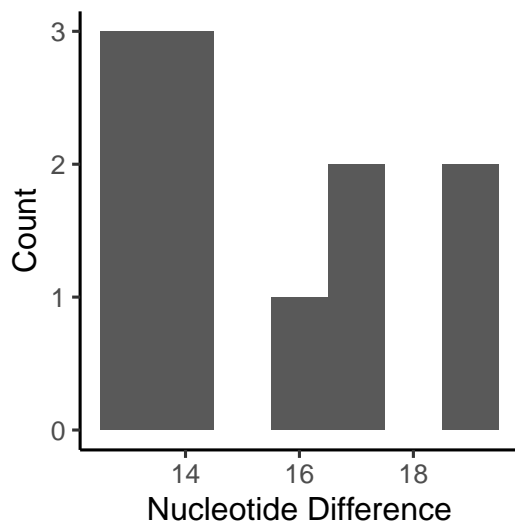
### IGHV3-49\*04

67 sequences assigned  
No exact matches.



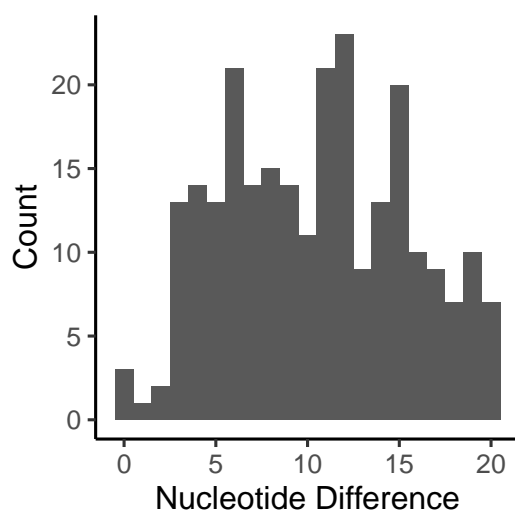
### IGHV3-30-3\*03

11 sequences assigned  
No exact matches.



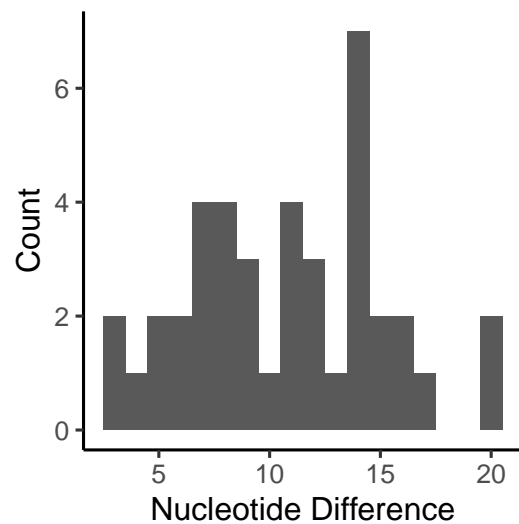
### IGHV3-48\*01

279 sequences assigned  
3 (1.1%) exact matches, in which:  
3 unique CDR3  
2 unique J



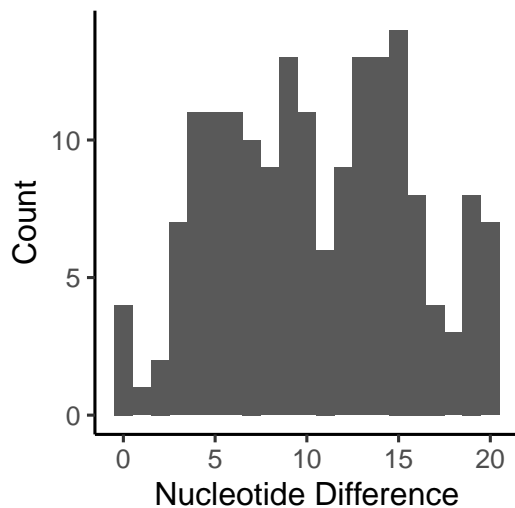
### IGHV3-49\*03\_05

43 sequences assigned  
No exact matches.



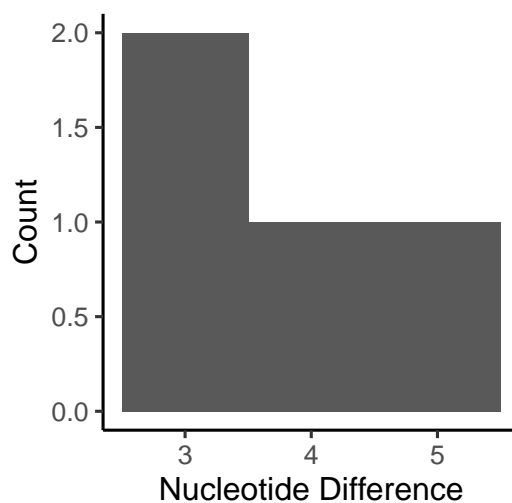
### IGHV3-53\*01\_02

224 sequences assigned  
4 (1.8%) exact matches, in which:  
4 unique CDR3  
2 unique J



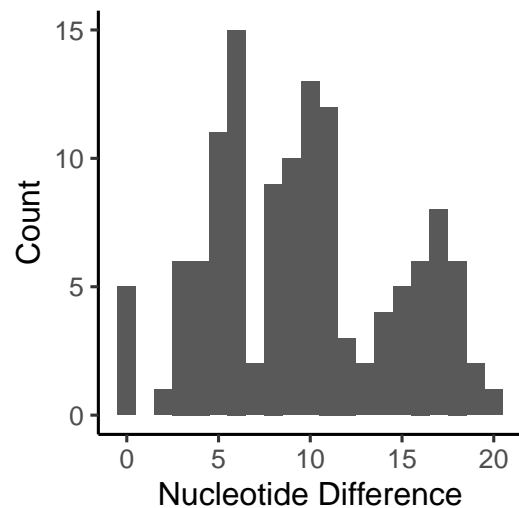
### IGHV3-69-1\*01

4 sequences assigned  
No exact matches.



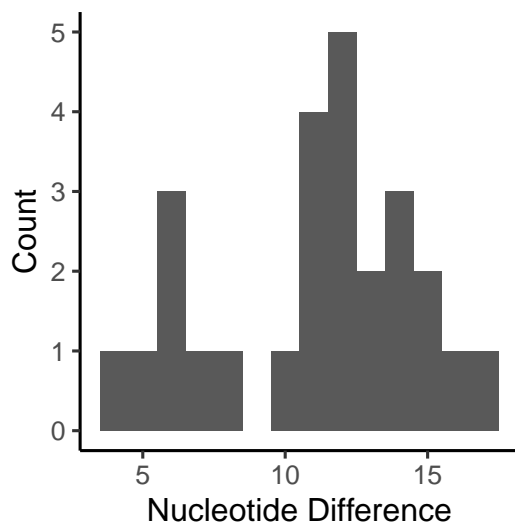
### IGHV3-73\*01\_02

136 sequences assigned  
5 (3.7%) exact matches, in which:  
5 unique CDR3  
2 unique J



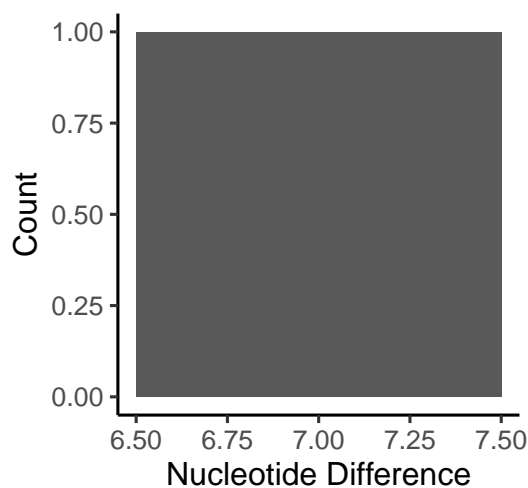
### IGHV3-64\*01

26 sequences assigned  
No exact matches.



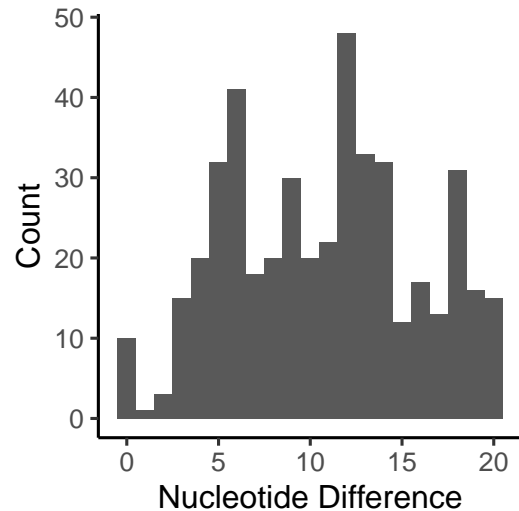
### IGHV3-69-1\*02

1 sequences assigned  
No exact matches.



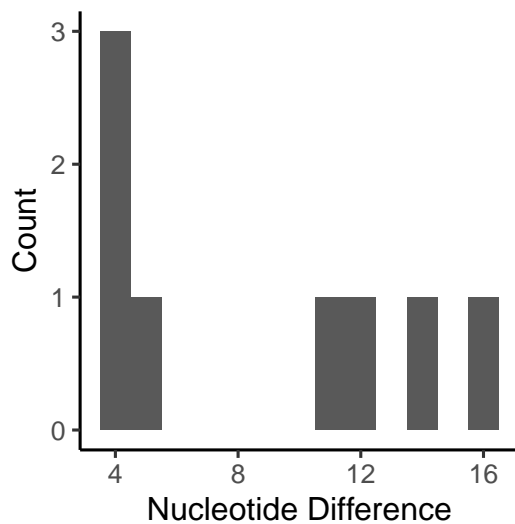
### IGHV3-74\*01\_02

491 sequences assigned  
10 (2%) exact matches, in which:  
9 unique CDR3  
3 unique J



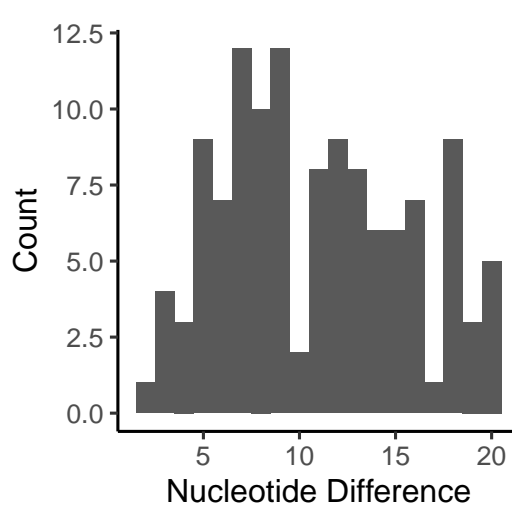
### IGHV3-64\*02\_07

8 sequences assigned  
No exact matches.



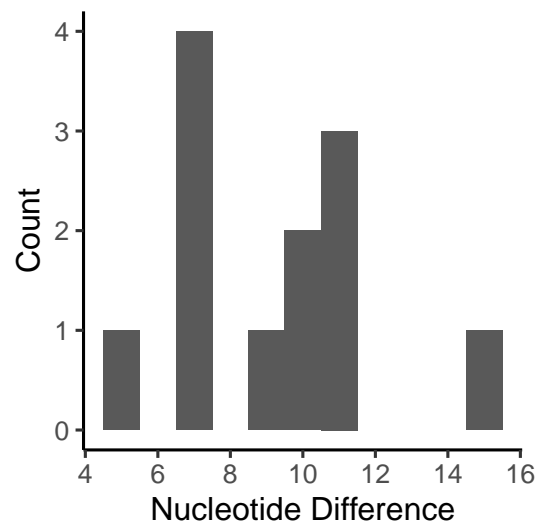
### IGHV3-72\*01

138 sequences assigned  
No exact matches.



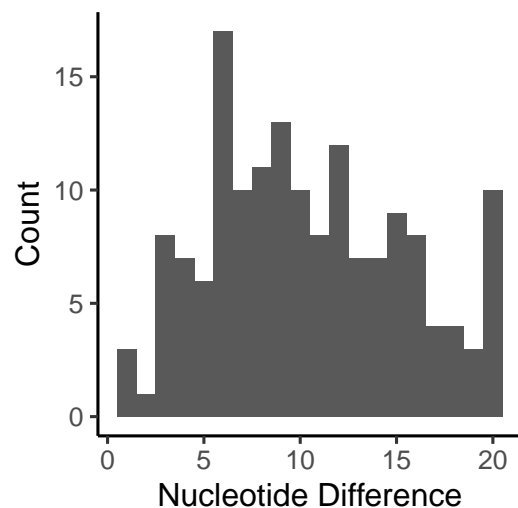
### IGHV3-43D\*04

14 sequences assigned  
No exact matches.



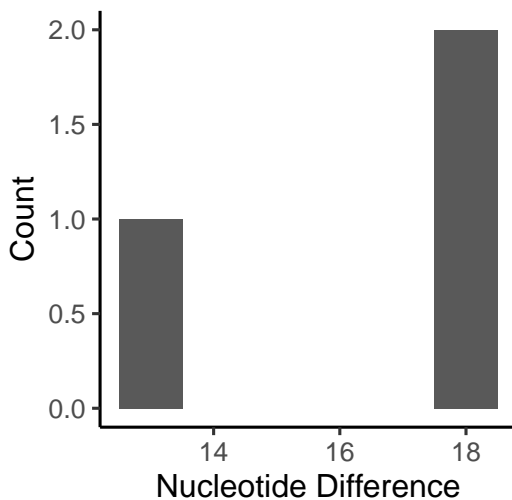
### IGHV3-64D\*06

188 sequences assigned  
No exact matches.



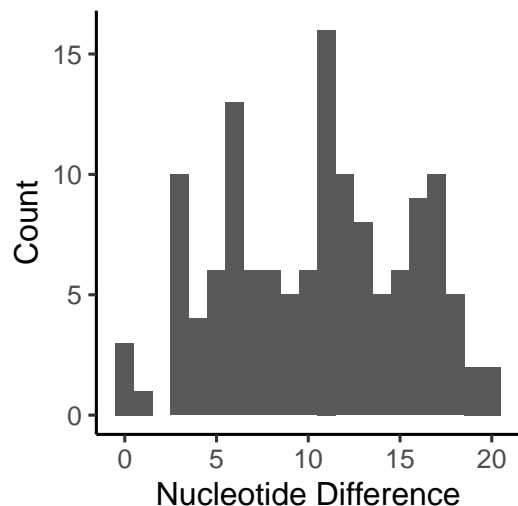
### IGHV4-28\*02\_05

3 sequences assigned  
No exact matches.



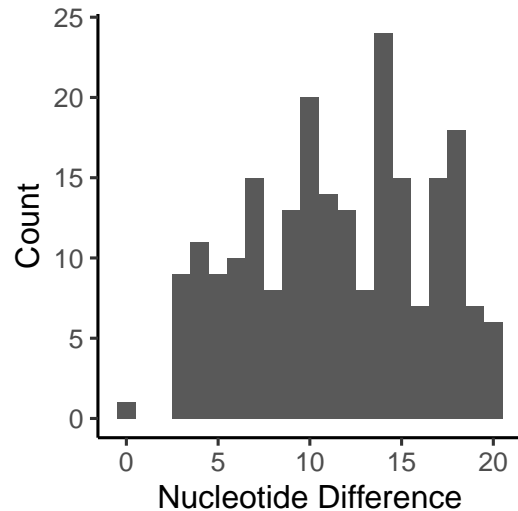
### IGHV4-31\*03\_04

196 sequences assigned  
3 (1.5%) exact matches, in which:  
2 unique CDR3  
1 unique J



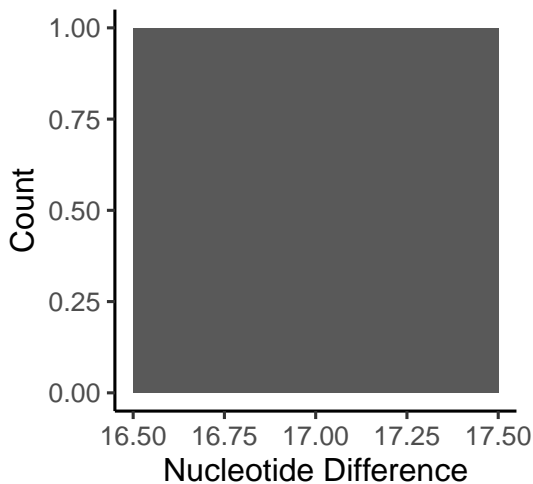
### IGHV4-4\*07

267 sequences assigned  
1 (0.4%) exact matches, in which:  
1 unique CDR3  
1 unique J



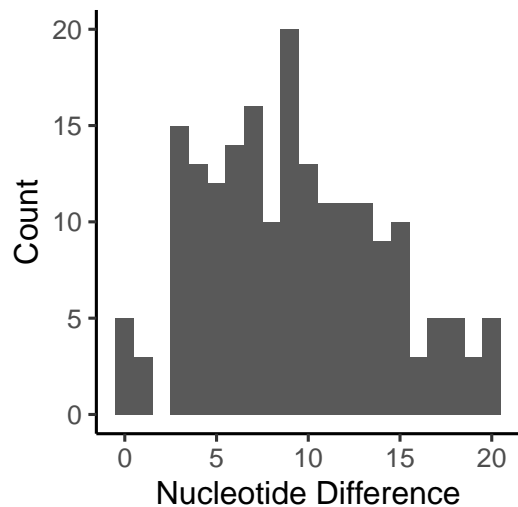
### IGHV4-30-2\*01

1 sequences assigned  
No exact matches.



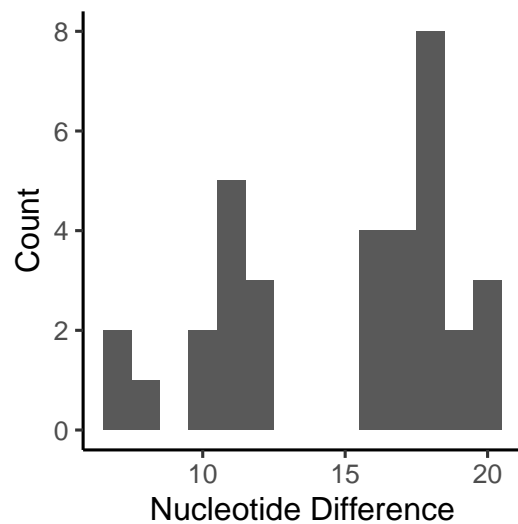
### IGHV4-34\*01\_02

228 sequences assigned  
5 (2.2%) exact matches, in which:  
4 unique CDR3  
3 unique J



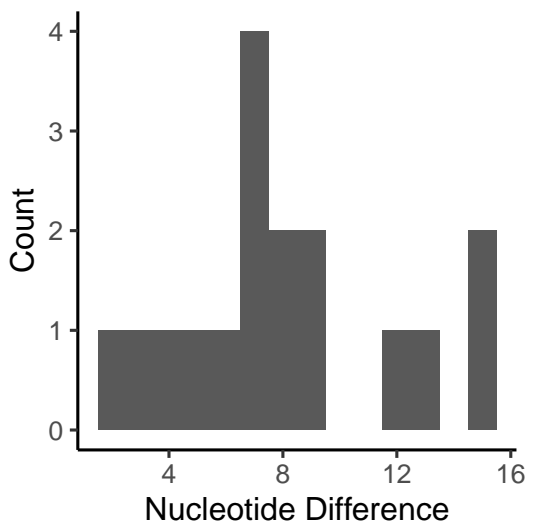
### IGHV4-28\*01\_07

34 sequences assigned  
No exact matches.



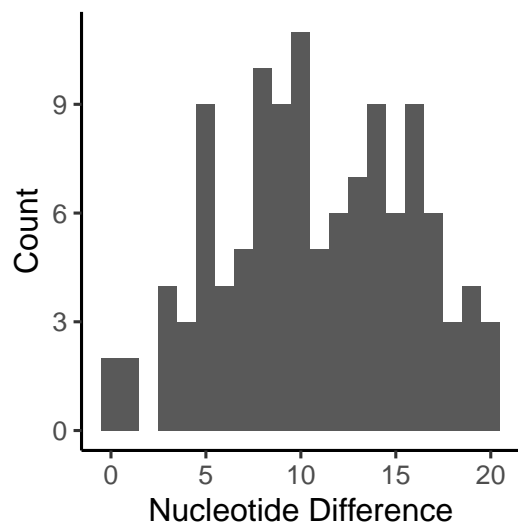
### IGHV4-31\*01

19 sequences assigned  
No exact matches.



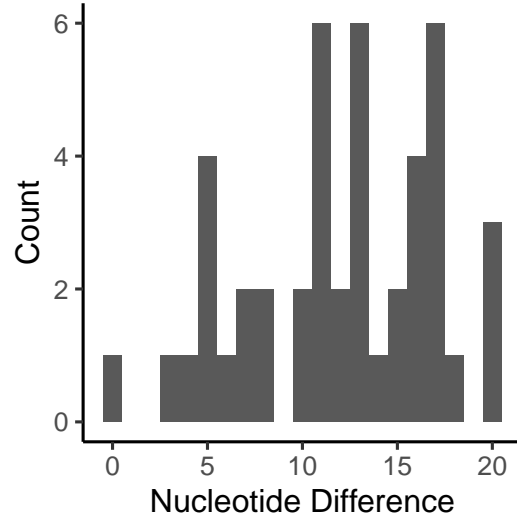
### IGHV4-38-2\*01

125 sequences assigned  
2 (1.6%) exact matches, in which:  
2 unique CDR3  
2 unique J



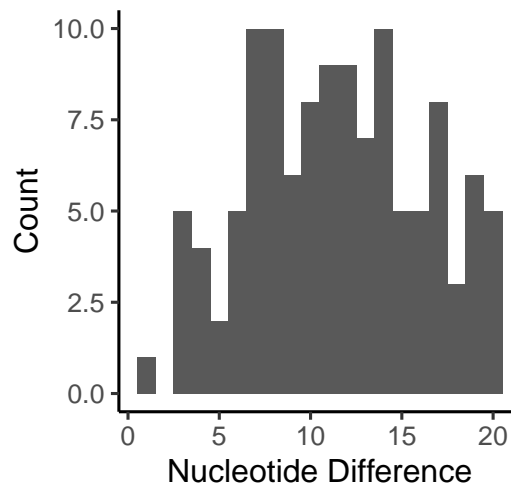
### IGHV4-38-2\*02

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



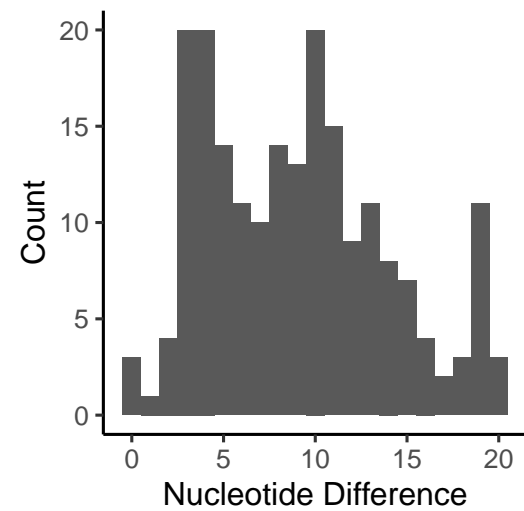
### IGHV4-61\*01

151 sequences assigned  
No exact matches.



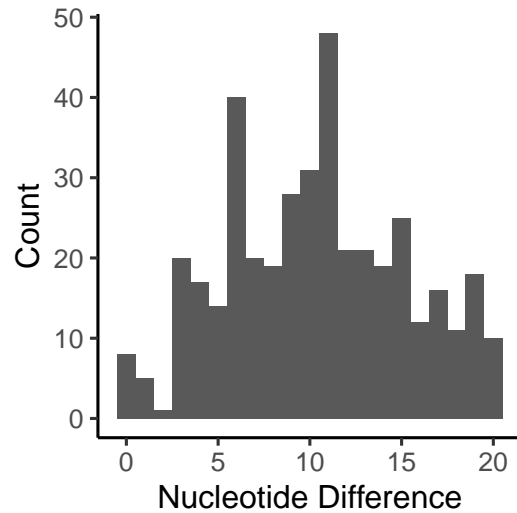
### IGHV5-51\*01\_03

219 sequences assigned  
3 (1.4%) exact matches, in which:  
3 unique CDR3  
3 unique J



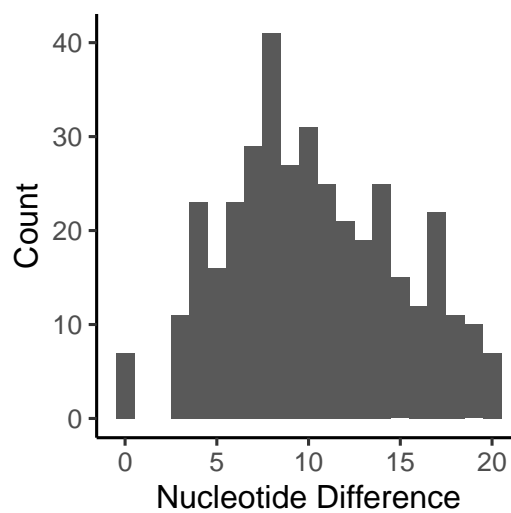
### IGHV4-39\*01\_05

461 sequences assigned  
8 (1.7%) exact matches, in which:  
5 unique CDR3  
2 unique J



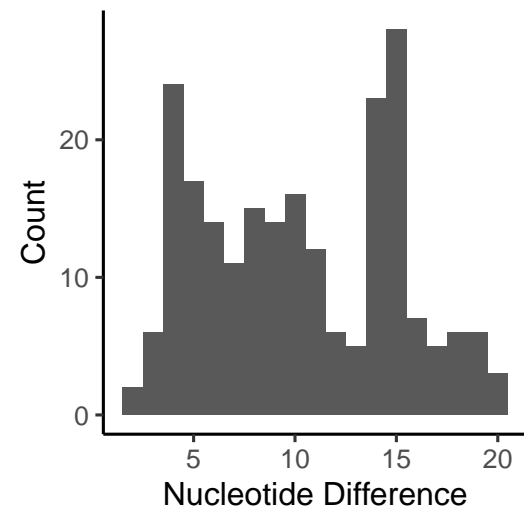
### IGHV4-61\*02

437 sequences assigned  
7 (1.6%) exact matches, in which:  
6 unique CDR3  
3 unique J



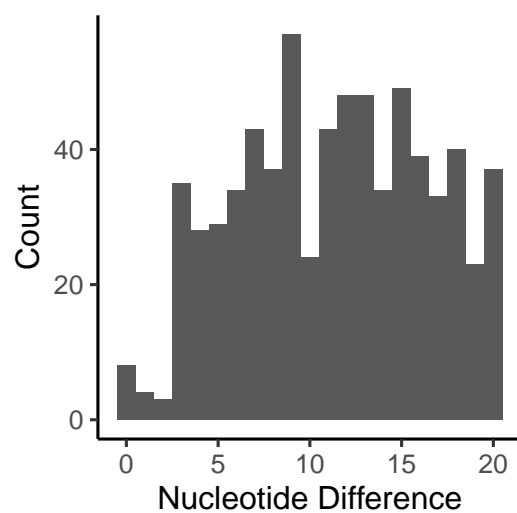
### IGHV6-1\*01\_02

227 sequences assigned  
No exact matches.



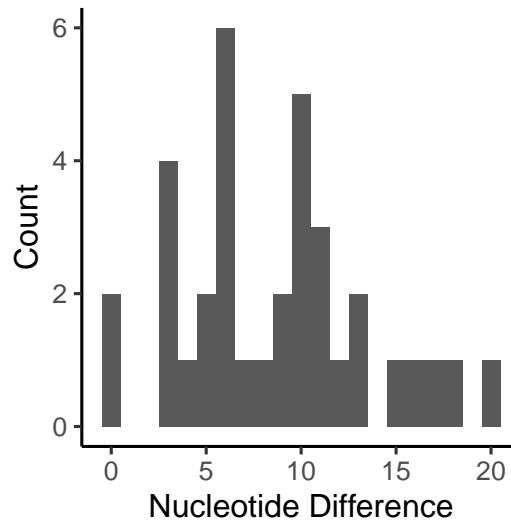
### IGHV4-59\*01\_07

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



### IGHV5-10-1\*01\_03

38 sequences assigned  
2 (5.3%) exact matches, in which:  
2 unique CDR3  
1 unique J





Warning - no inferred sequences found.