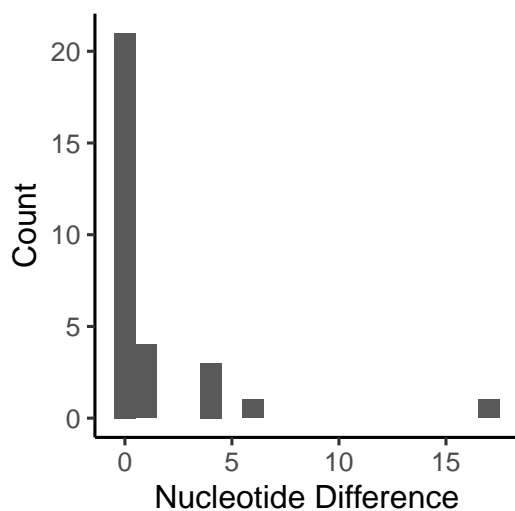


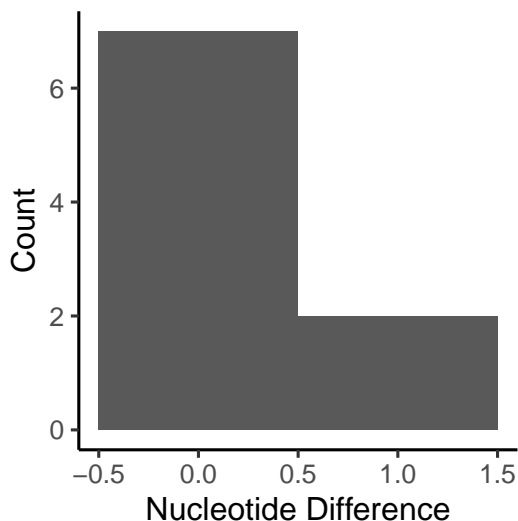
### IGHV1-2\*02

30 sequences assigned  
21 (70%) exact matches, in which:  
21 unique CDR3  
5 unique J



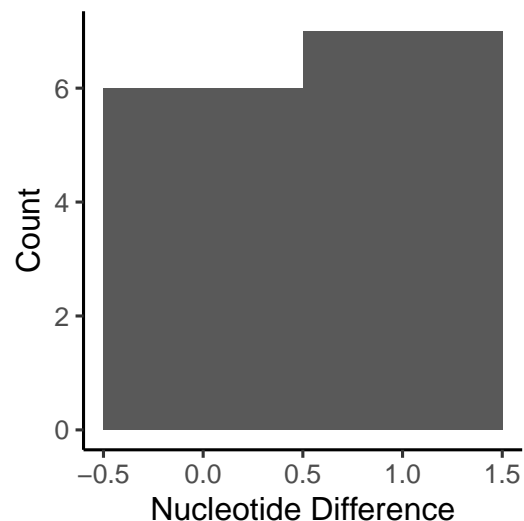
### IGHV1-8\*01

9 sequences assigned  
7 (77.8%) exact matches, in which:  
7 unique CDR3  
2 unique J



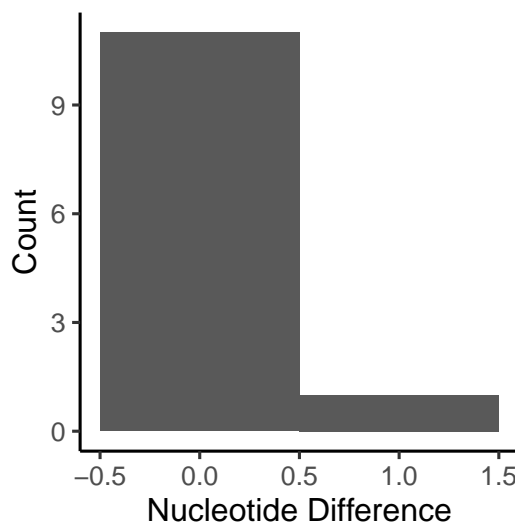
### IGHV1-24\*01

14 sequences assigned  
6 (42.9%) exact matches, in which:  
6 unique CDR3  
3 unique J



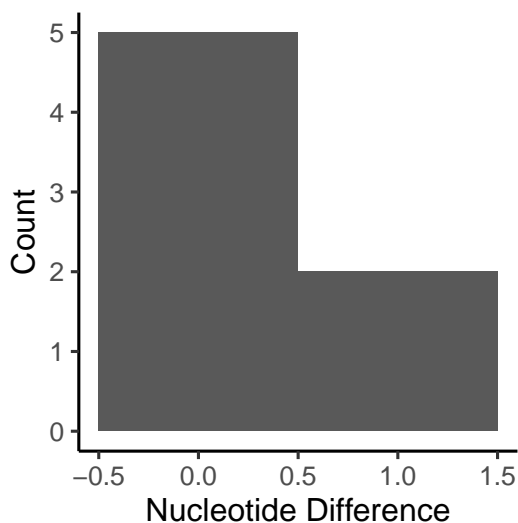
### IGHV1-2\*04

12 sequences assigned  
11 (91.7%) exact matches, in which:  
11 unique CDR3  
4 unique J



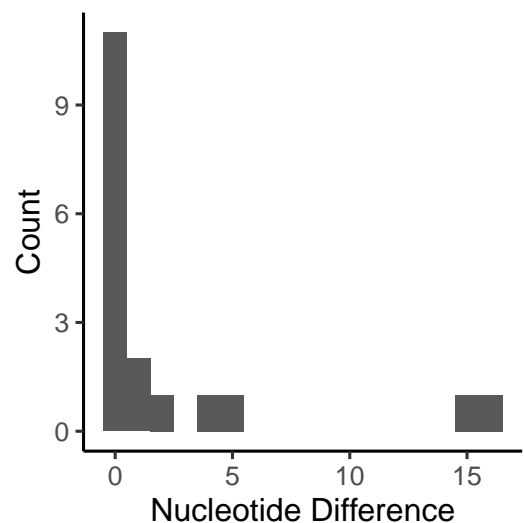
### IGHV1-18\*01

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



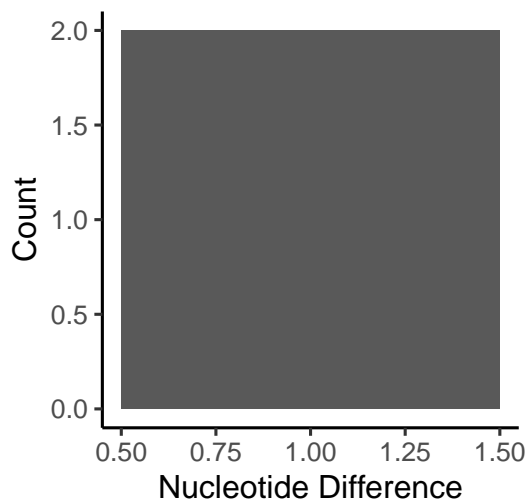
### IGHV1-46\*01

18 sequences assigned  
11 (61.1%) exact matches, in which:  
10 unique CDR3  
3 unique J



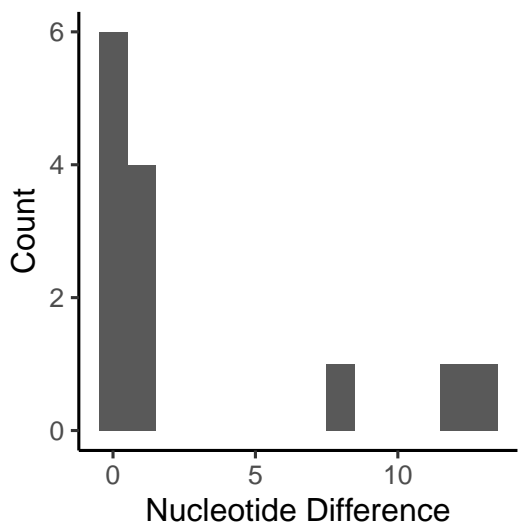
### IGHV1-3\*01

2 sequences assigned  
No exact matches.



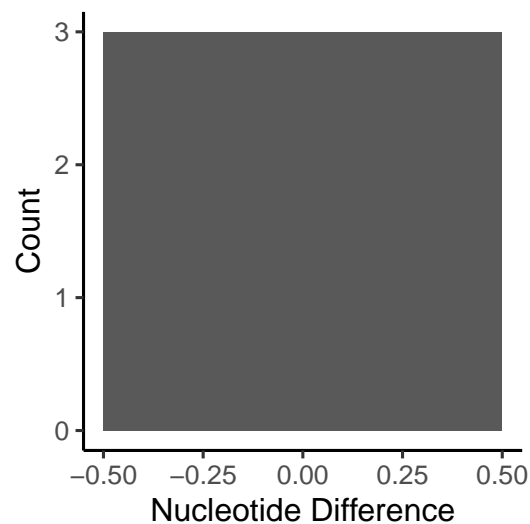
### IGHV1-18\*04

13 sequences assigned  
6 (46.2%) exact matches, in which:  
6 unique CDR3  
3 unique J



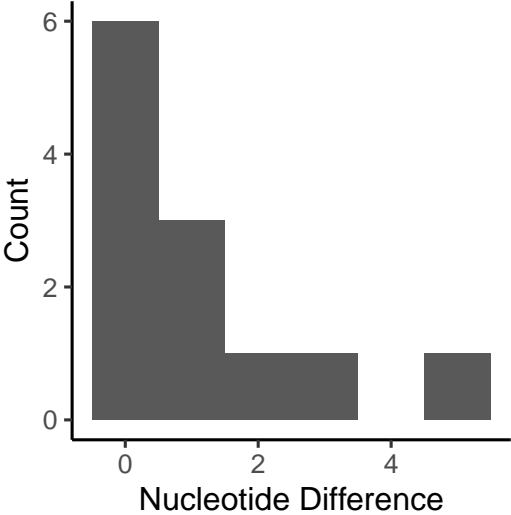
### IGHV1-58\*01

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



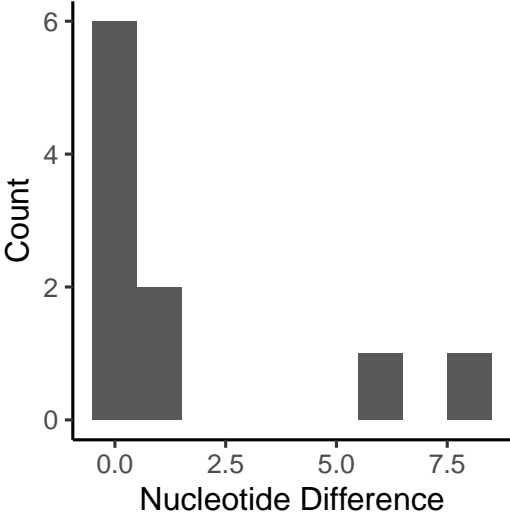
IGHV2–5\*02

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



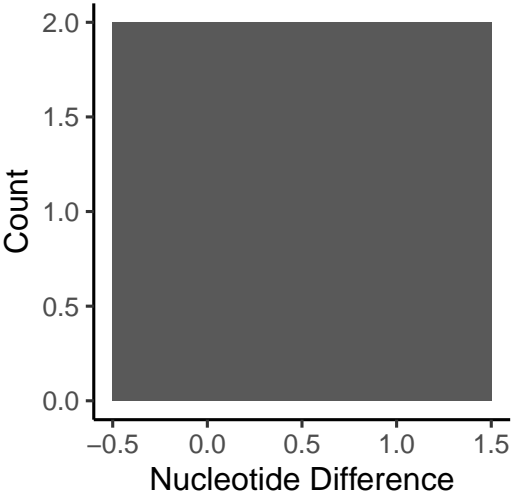
IGHV3–7\*03

11 sequences assigned  
6 (54.5%) exact matches, in which:  
6 unique CDR3  
5 unique J



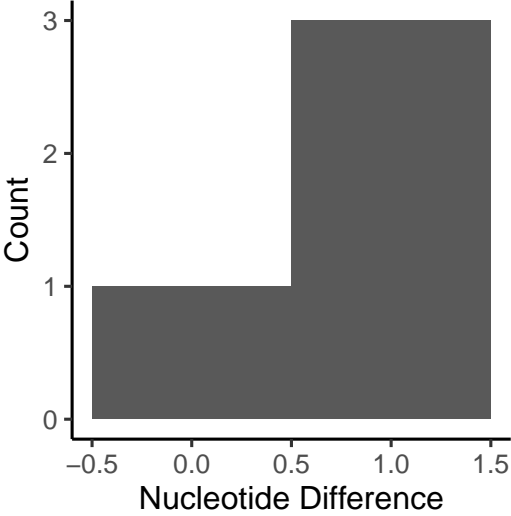
IGHV3–11\*06

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



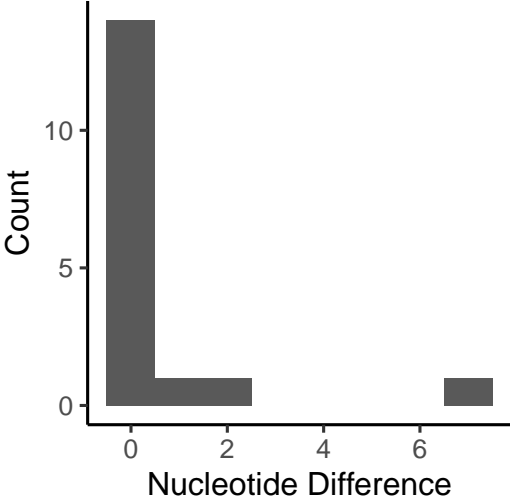
IGHV2–26\*01

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



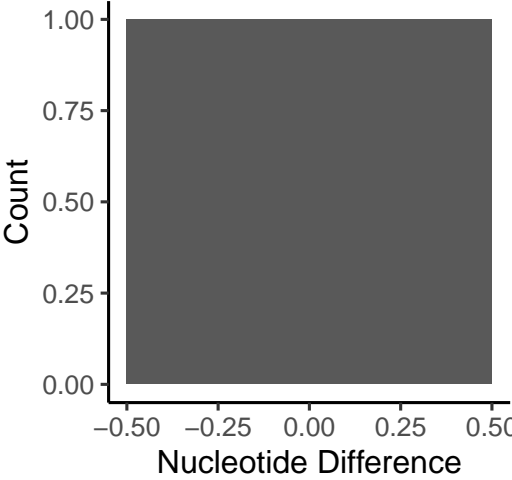
IGHV3–9\*01

17 sequences assigned  
14 (82.4%) exact matches, in which:  
14 unique CDR3  
5 unique J



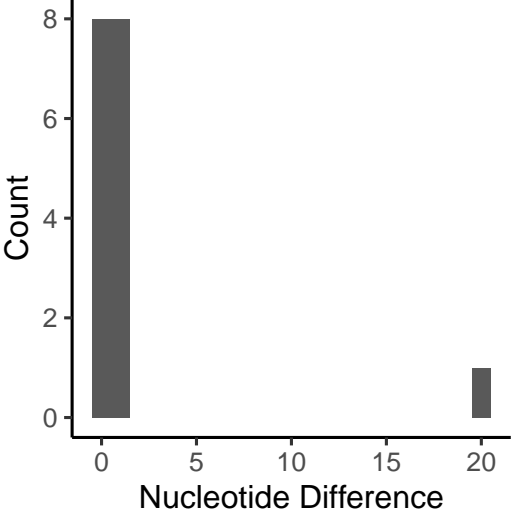
IGHV3–13\*01

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



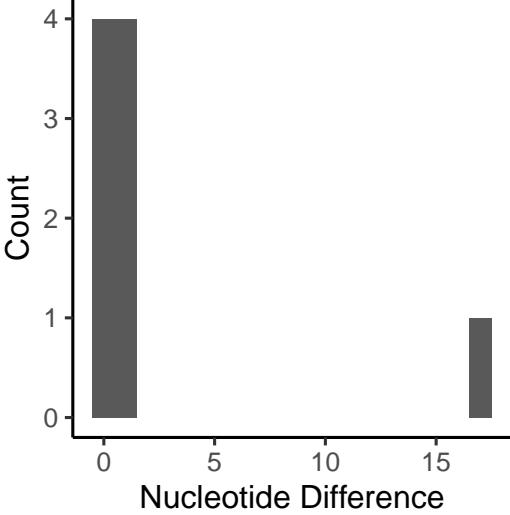
IGHV3–7\*01

18 sequences assigned  
8 (44.4%) exact matches, in which:  
8 unique CDR3  
4 unique J



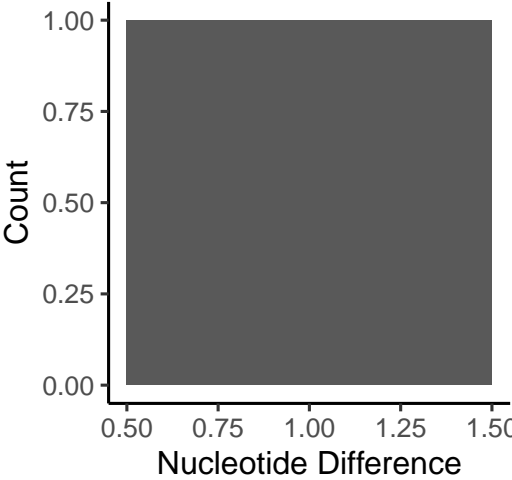
IGHV3–11\*01

9 sequences assigned  
4 (44.4%) exact matches, in which:  
4 unique CDR3  
3 unique J



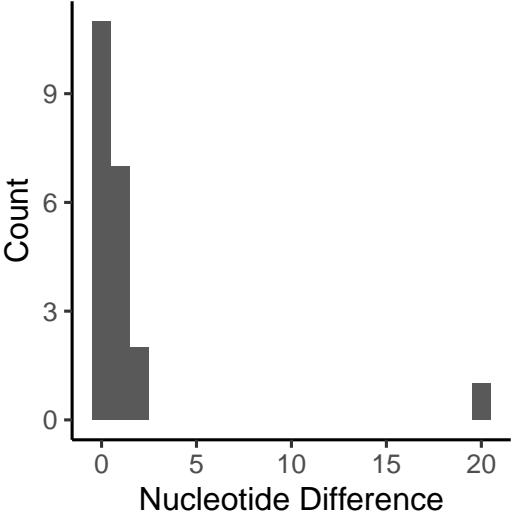
IGHV3–13\*05

1 sequences assigned  
No exact matches.



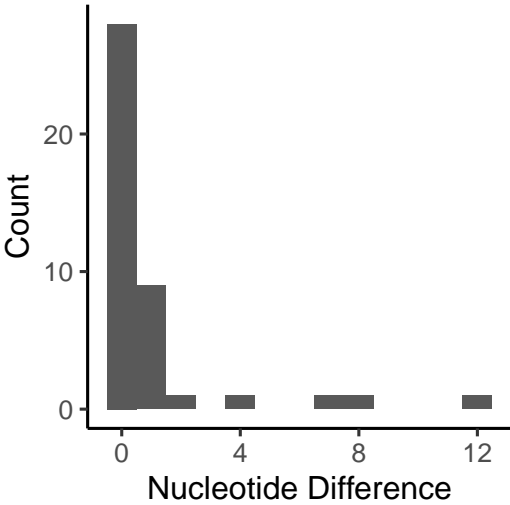
IGHV3-15\*01

22 sequences assigned  
11 (50%) exact matches, in which:  
11 unique CDR3  
3 unique J



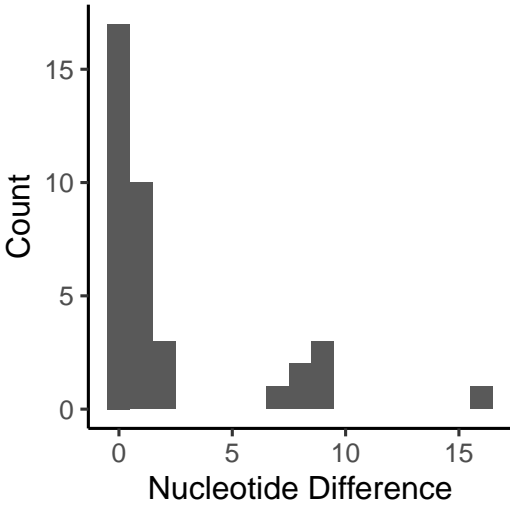
IGHV3-30-3\*01

43 sequences assigned  
28 (65.1%) exact matches, in which:  
28 unique CDR3  
5 unique J



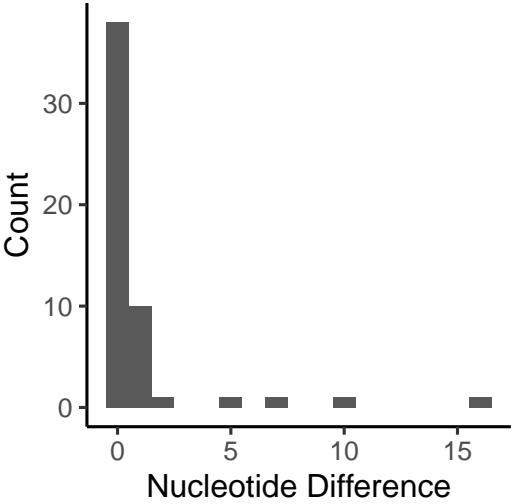
IGHV3-48\*02

37 sequences assigned  
17 (45.9%) exact matches, in which:  
17 unique CDR3  
4 unique J



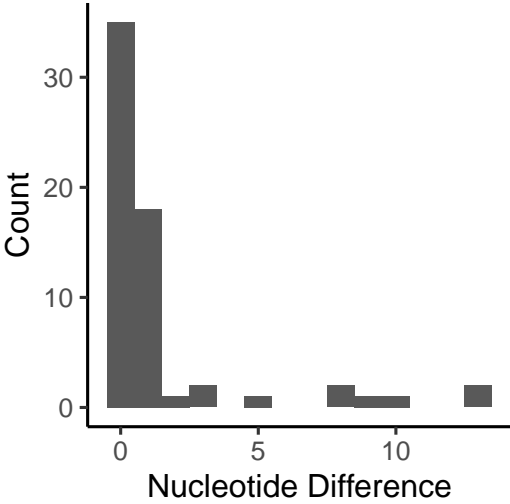
IGHV3-21\*01

54 sequences assigned  
38 (70.4%) exact matches, in which:  
38 unique CDR3  
5 unique J



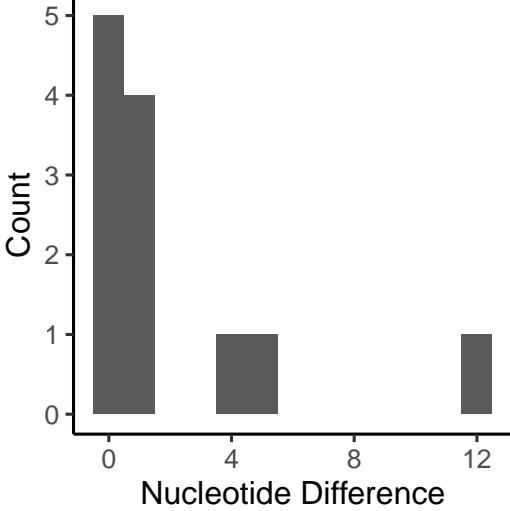
IGHV3-33\*01

64 sequences assigned  
35 (54.7%) exact matches, in which:  
35 unique CDR3  
6 unique J



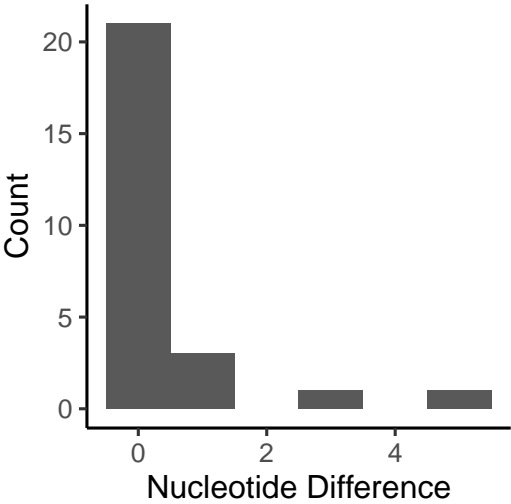
IGHV3-49\*05

12 sequences assigned  
5 (41.7%) exact matches, in which:  
5 unique CDR3  
3 unique J



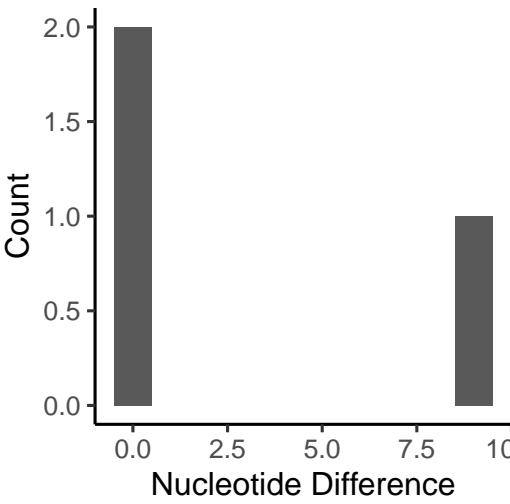
IGHV3-21\*01\_A131C

26 sequences assigned  
21 (80.8%) exact matches, in which:  
21 unique CDR3  
5 unique J



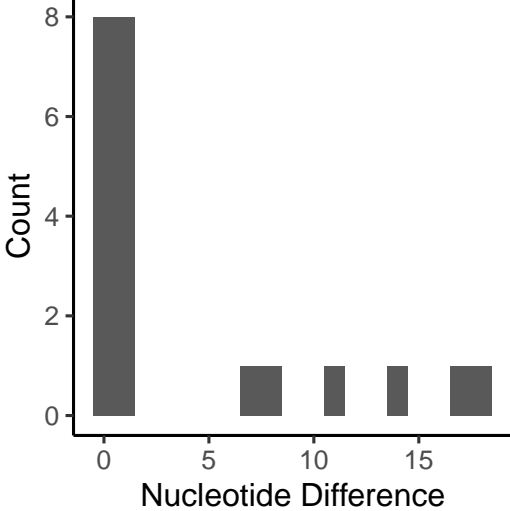
IGHV3-43\*01

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



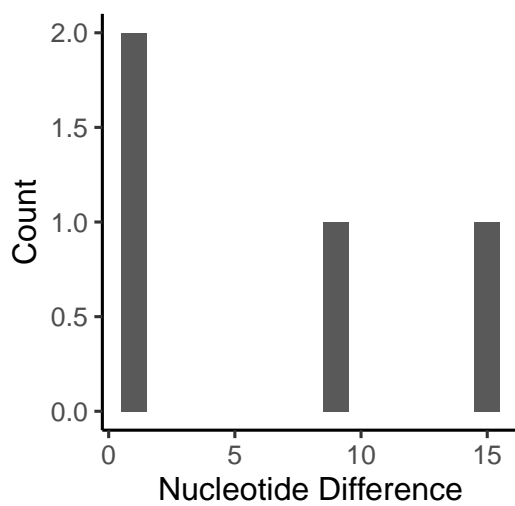
IGHV3-53\*01

22 sequences assigned  
8 (36.4%) exact matches, in which:  
8 unique CDR3  
3 unique J



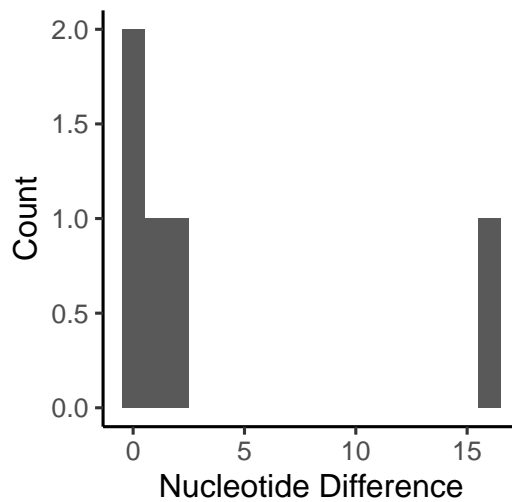
### IGHV3-72\*01

4 sequences assigned  
No exact matches.



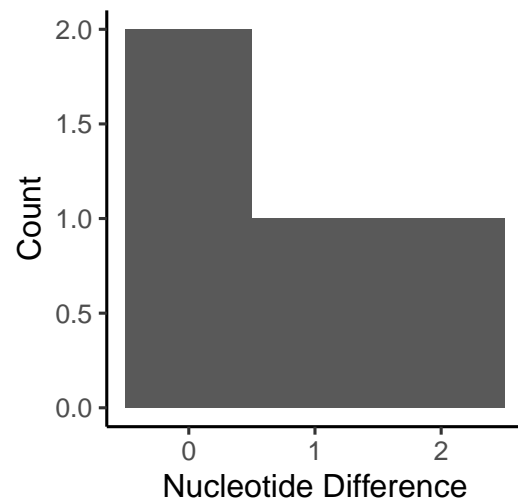
### IGHV3-64D\*06

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



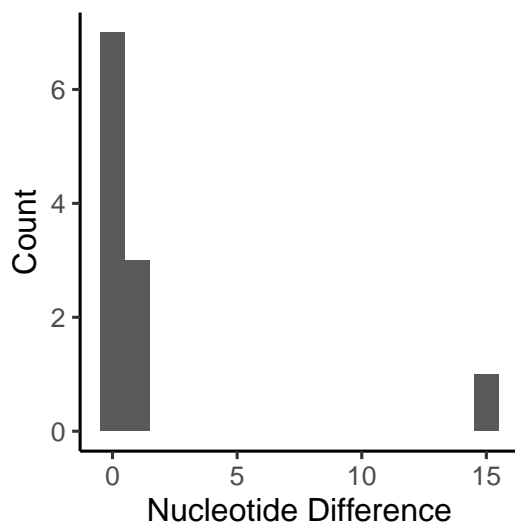
### IGHV4-4\*07

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



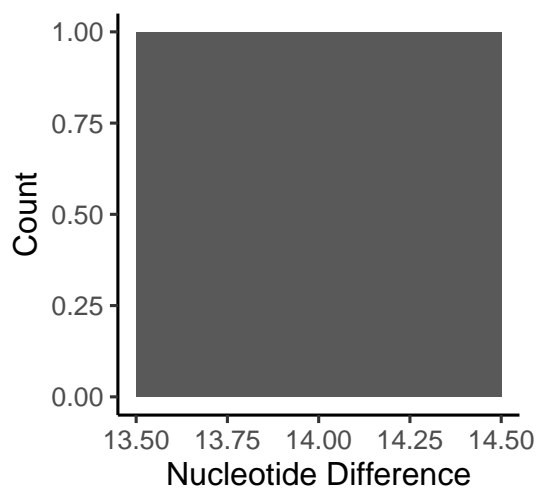
### IGHV3-73\*02

11 sequences assigned  
7 (63.6%) exact matches, in which:  
7 unique CDR3  
4 unique J



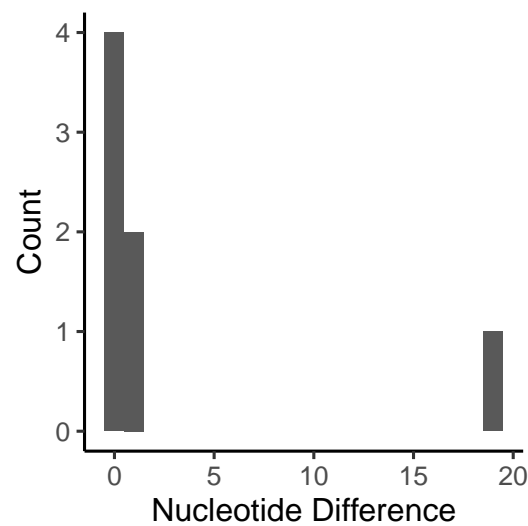
### IGHV3-64D\*08

1 sequences assigned  
No exact matches.



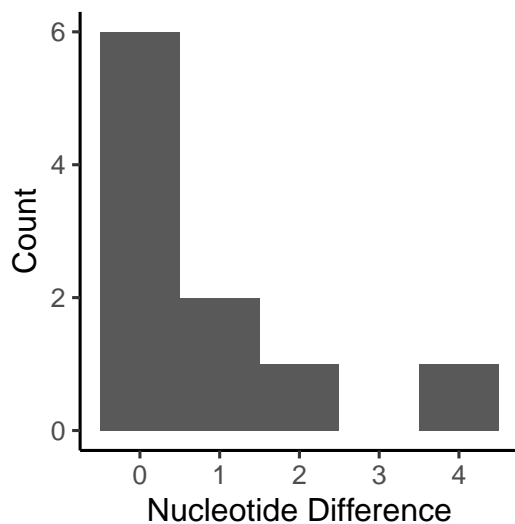
### IGHV4-30-4\*01

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
2 unique J



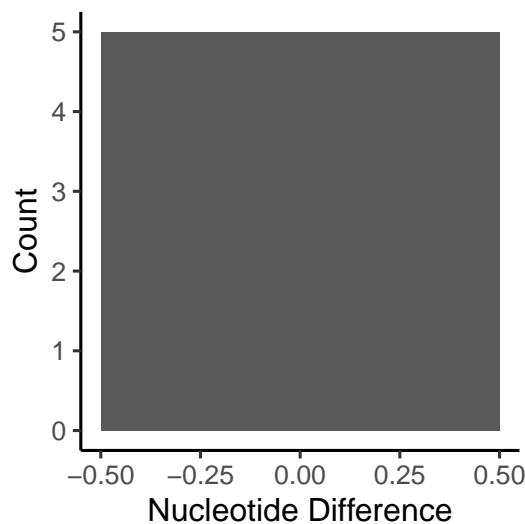
### IGHV3-74\*01

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



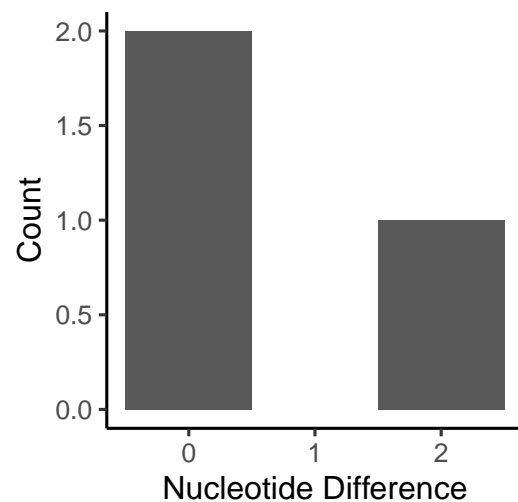
### IGHV4-4\*02

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



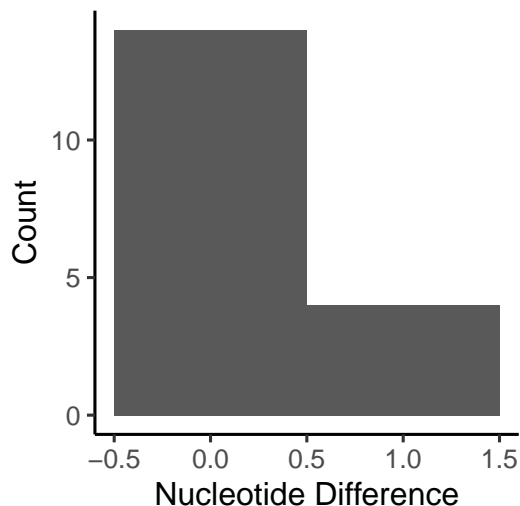
### IGHV4-30-2\*01

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



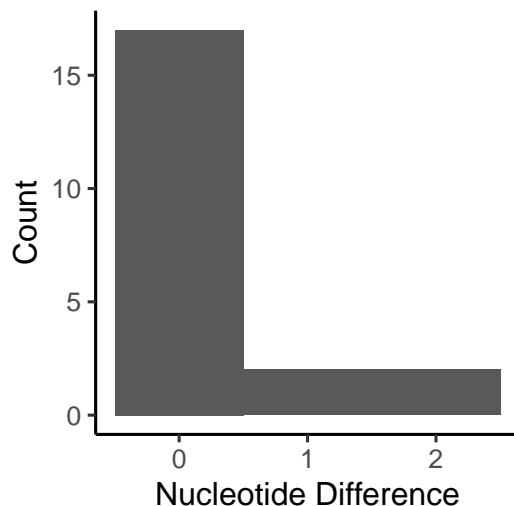
### IGHV4–31\*03

18 sequences assigned  
14 (77.8%) exact matches, in which:  
14 unique CDR3  
5 unique J



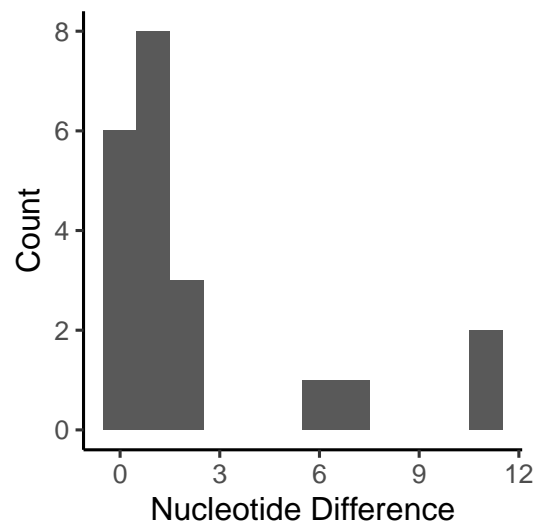
### IGHV4–59\*01

21 sequences assigned  
17 (81%) exact matches, in which:  
17 unique CDR3  
4 unique J



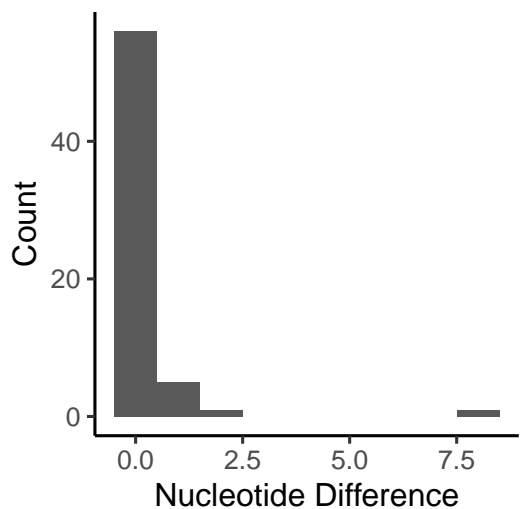
### IGHV5–51\*01

21 sequences assigned  
6 (28.6%) exact matches, in which:  
6 unique CDR3  
3 unique J



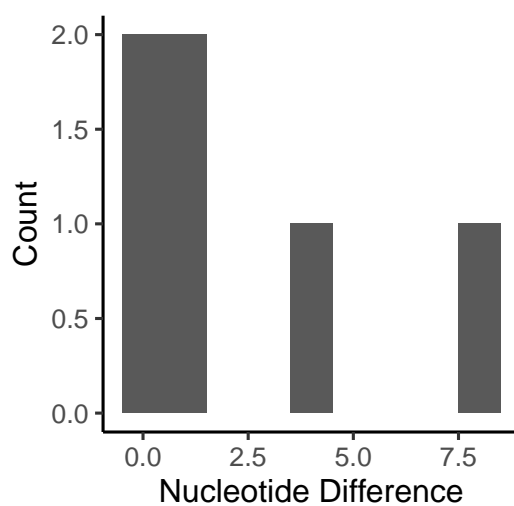
### IGHV4–34\*01

64 sequences assigned  
56 (87.5%) exact matches, in which:  
56 unique CDR3  
6 unique J



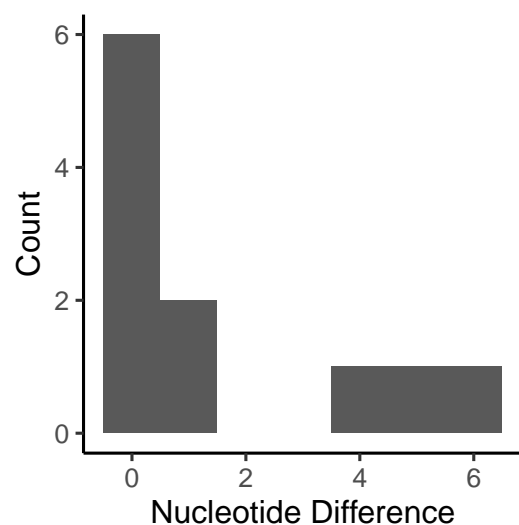
### IGHV4–61\*01

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



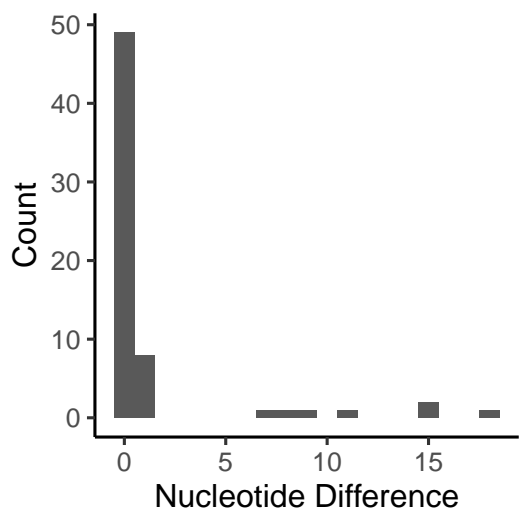
### IGHV6–1\*01

11 sequences assigned  
6 (54.5%) exact matches, in which:  
6 unique CDR3  
3 unique J



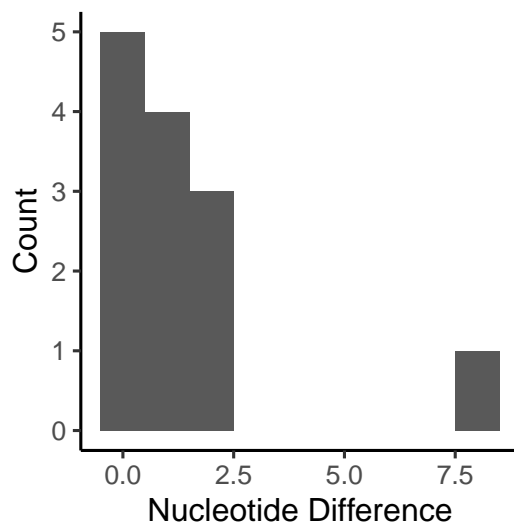
### IGHV4–39\*01

64 sequences assigned  
49 (76.6%) exact matches, in which:  
49 unique CDR3  
5 unique J



### IGHV5–10–1\*03

13 sequences assigned  
5 (38.5%) exact matches, in which:  
5 unique CDR3  
3 unique J





Warning – no inferred sequences found.