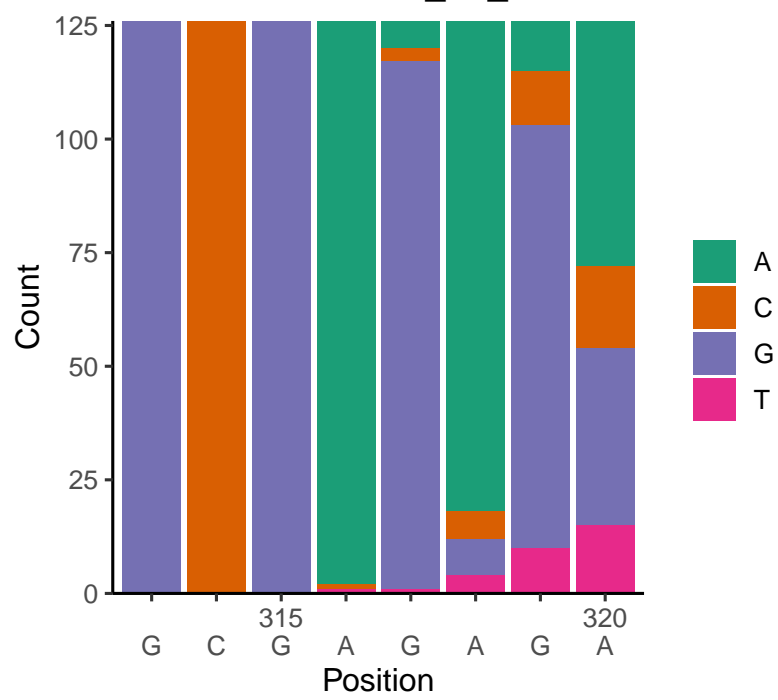


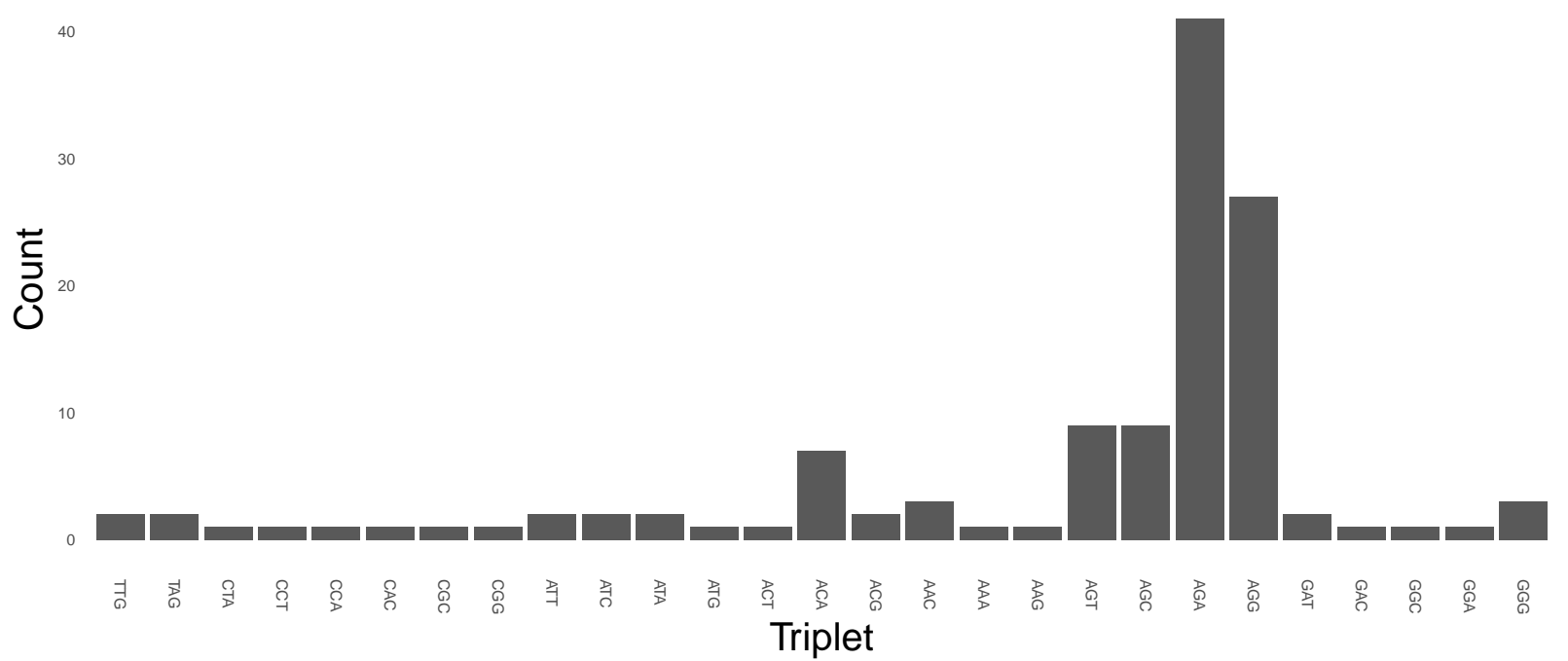
# Gene IGHV6-1\*01\_02\_A315G



Gene IGHV6-1\*01\_02\_A315G

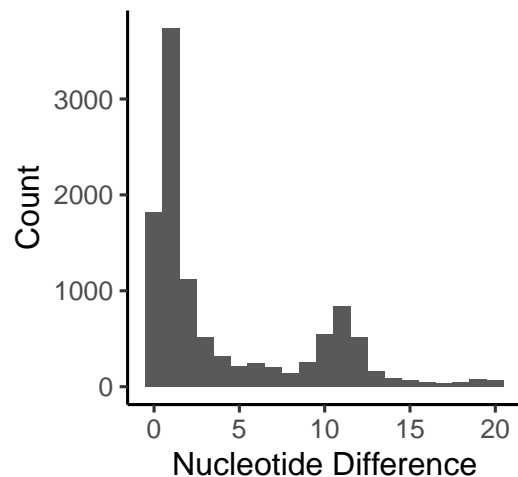


IGHV6-1\*01\_02\_A315G- Final 3 nucleotides as a triplet



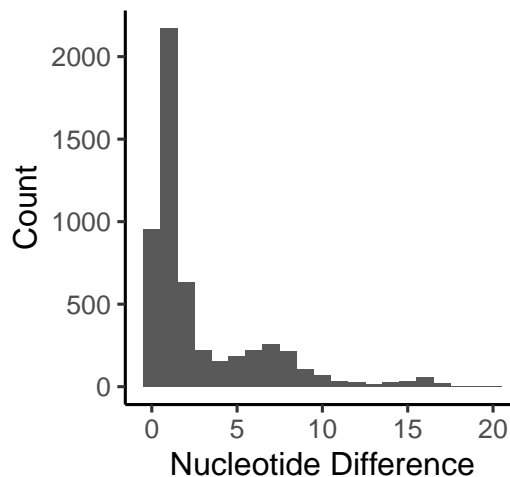
### IGHV1-2\*02

11189 sequences assigned  
1823 (16.3%) exact matches, in which:  
1255 unique CDR3  
7 unique J



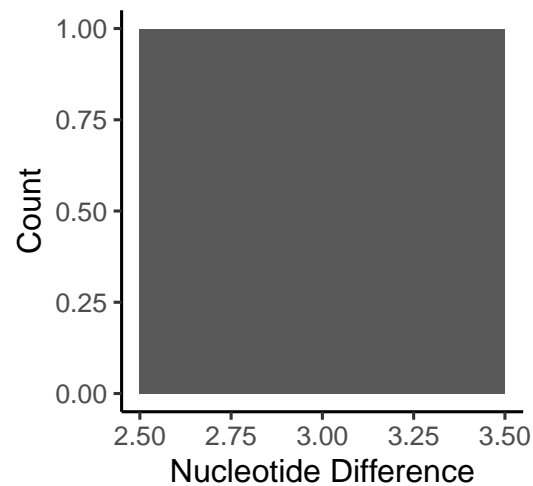
### IGHV1-8\*02

5437 sequences assigned  
953 (17.5%) exact matches, in which:  
658 unique CDR3  
6 unique J



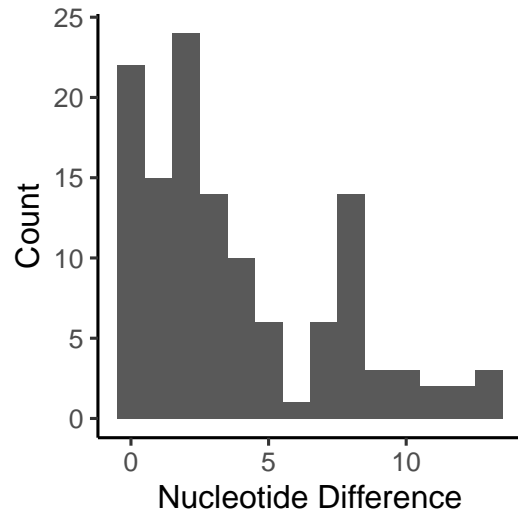
### IGHV1-45\*02

1 sequences assigned  
No exact matches.



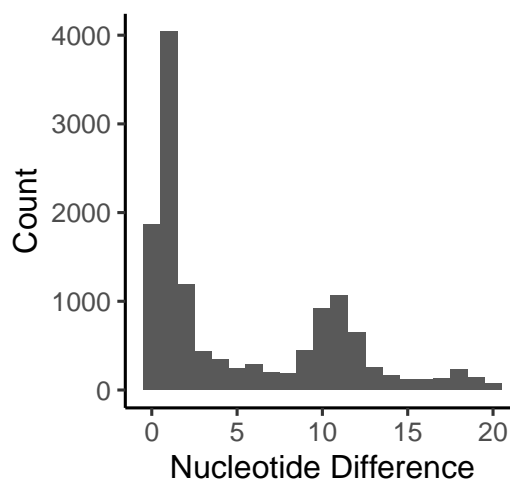
### IGHV1-3\*02

184 sequences assigned  
22 (12%) exact matches, in which:  
22 unique CDR3  
4 unique J



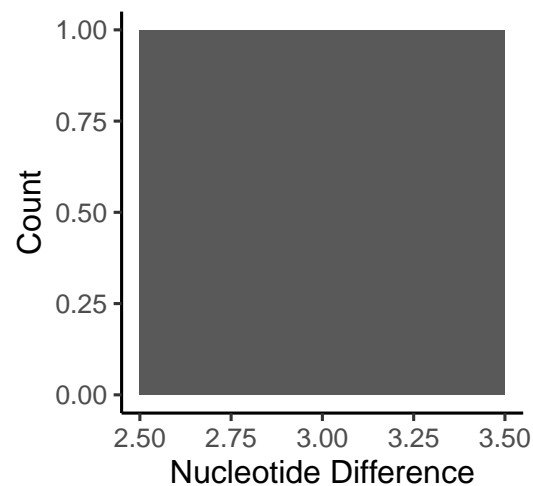
### IGHV1-18\*01

13809 sequences assigned  
1869 (13.5%) exact matches, in which:  
1291 unique CDR3  
7 unique J



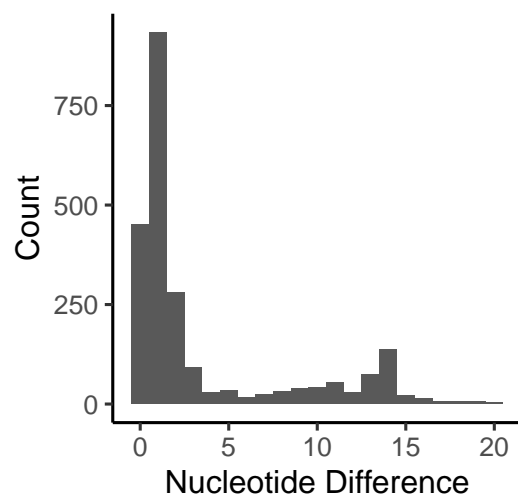
### IGHV1-45\*03

1 sequences assigned  
No exact matches.



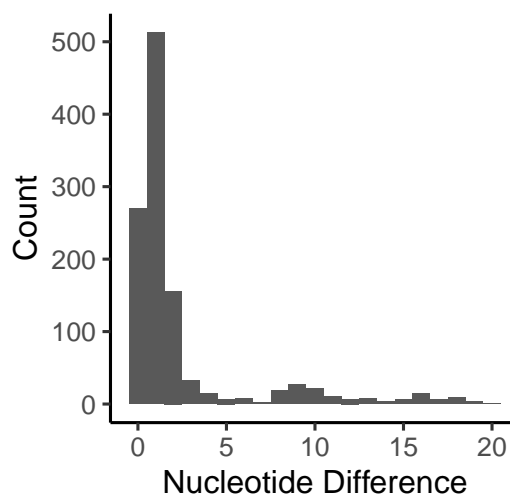
### IGHV1-8\*01

2513 sequences assigned  
450 (17.9%) exact matches, in which:  
338 unique CDR3  
7 unique J



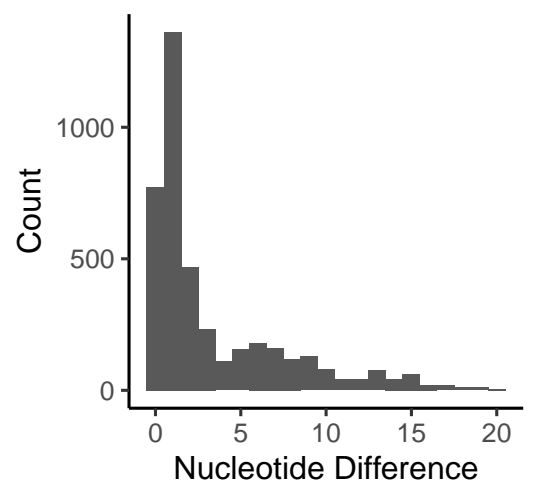
### IGHV1-24\*01

1141 sequences assigned  
270 (23.7%) exact matches, in which:  
194 unique CDR3  
5 unique J



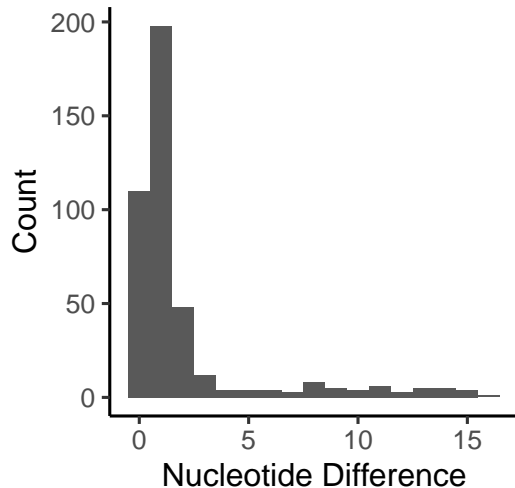
### IGHV1-46\*01

4127 sequences assigned  
774 (18.8%) exact matches, in which:  
568 unique CDR3  
7 unique J



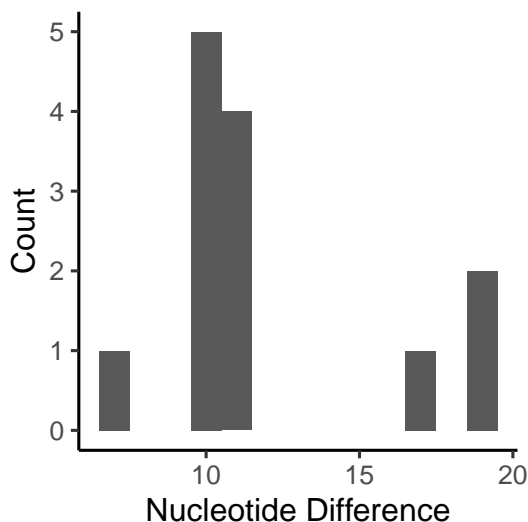
### IGHV1–58\*02

429 sequences assigned  
110 (25.6%) exact matches, in which:  
86 unique CDR3  
5 unique J



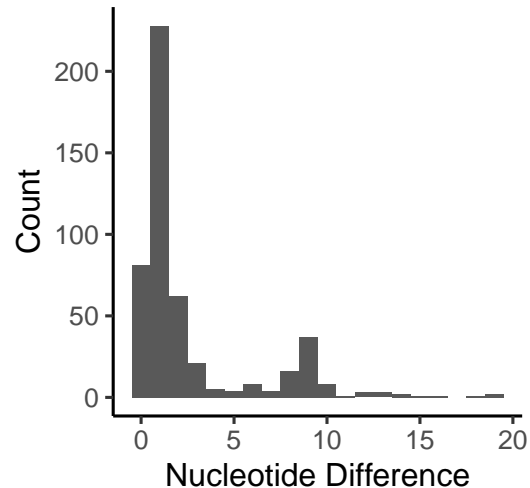
### IGHV1–NL1\*01

13 sequences assigned  
No exact matches.



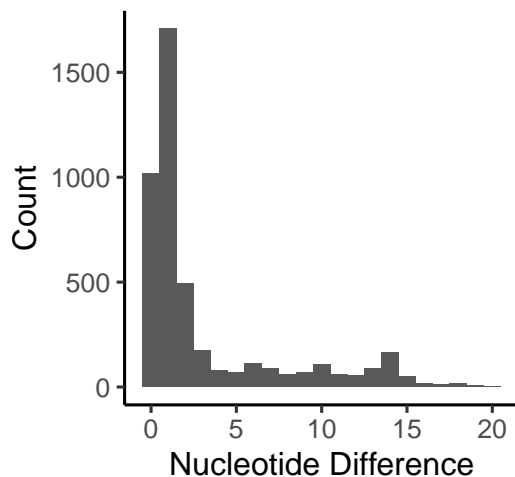
### IGHV2–26\*01

490 sequences assigned  
81 (16.5%) exact matches, in which:  
47 unique CDR3  
4 unique J



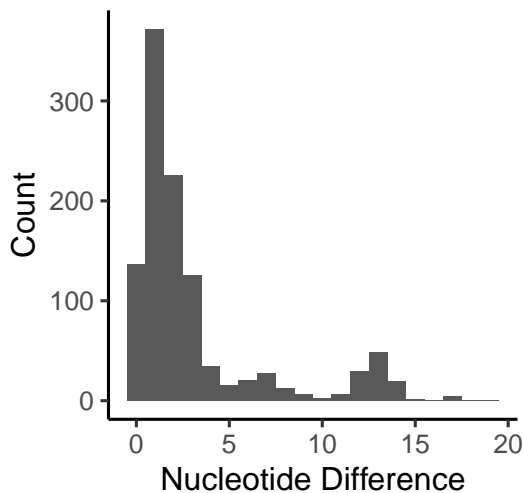
### IGHV1–69\*10

4459 sequences assigned  
1019 (22.9%) exact matches, in which:  
773 unique CDR3  
7 unique J



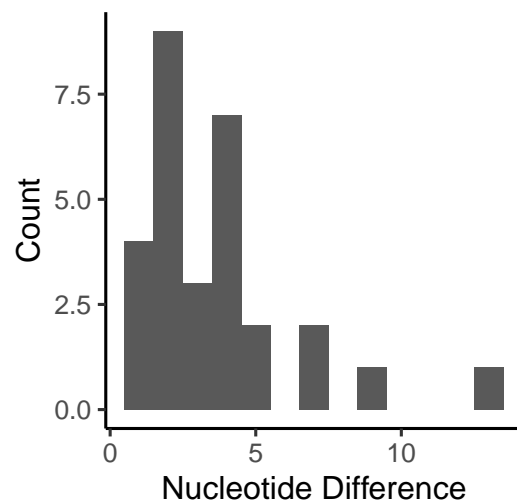
### IGHV2–5\*01

1106 sequences assigned  
137 (12.4%) exact matches, in which:  
97 unique CDR3  
7 unique J



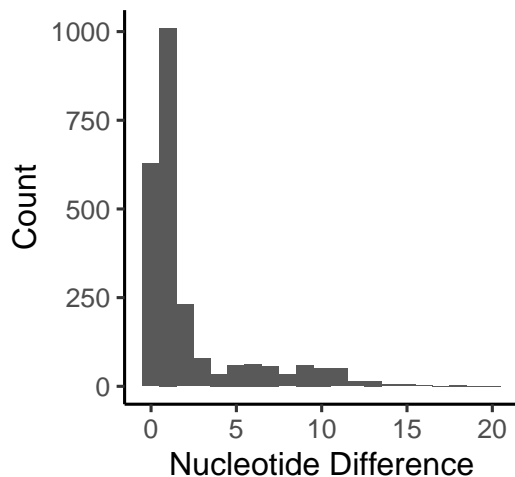
### IGHV2–70\*12

29 sequences assigned  
No exact matches.



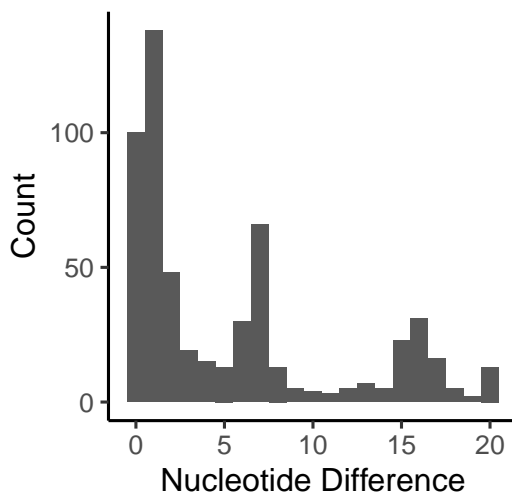
### IGHV1–69\*04\_09

2517 sequences assigned  
628 (25%) exact matches, in which:  
490 unique CDR3  
7 unique J



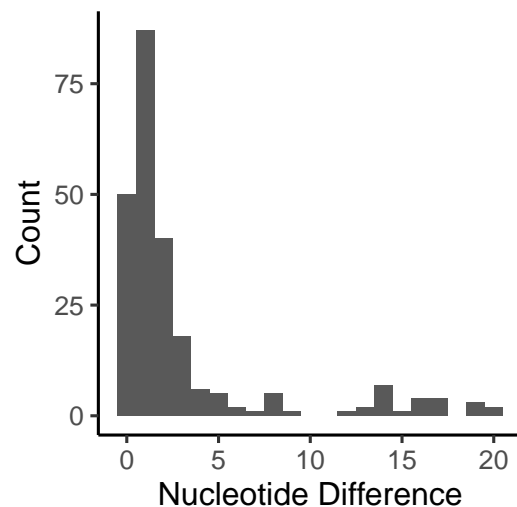
### IGHV2–5\*02

1127 sequences assigned  
100 (8.9%) exact matches, in which:  
84 unique CDR3  
6 unique J



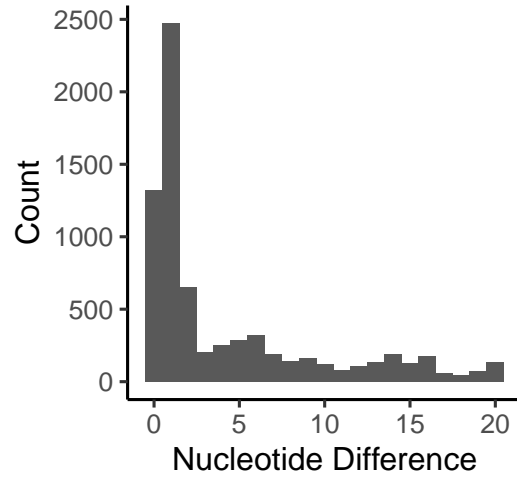
### IGHV2–70\*11\_15

4109 sequences assigned  
50 (1.2%) exact matches, in which:  
39 unique CDR3  
4 unique J



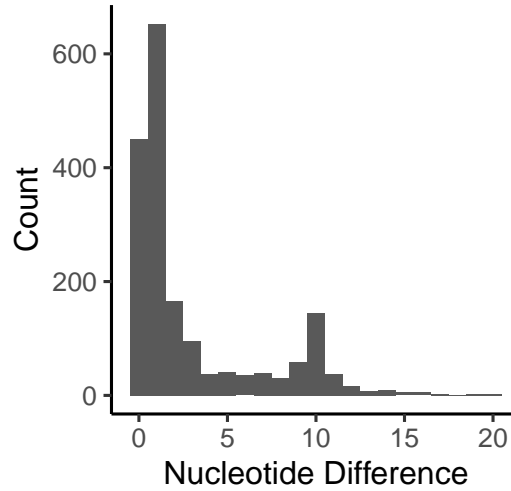
### IGHV3-7\*01

16327 sequences assigned  
1324 (8.1%) exact matches, in which:  
779 unique CDR3  
7 unique J



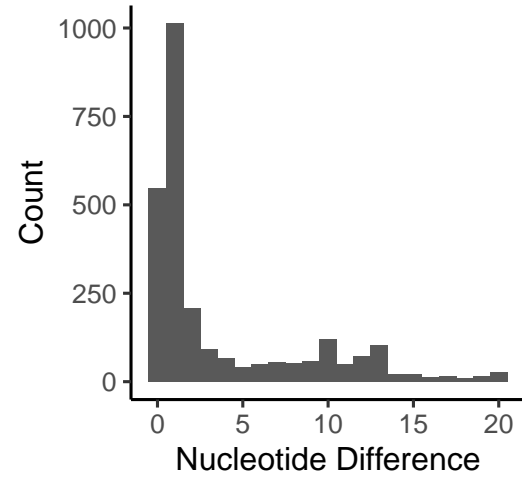
### IGHV3-11\*01

1868 sequences assigned  
451 (24.1%) exact matches, in which:  
300 unique CDR3  
7 unique J



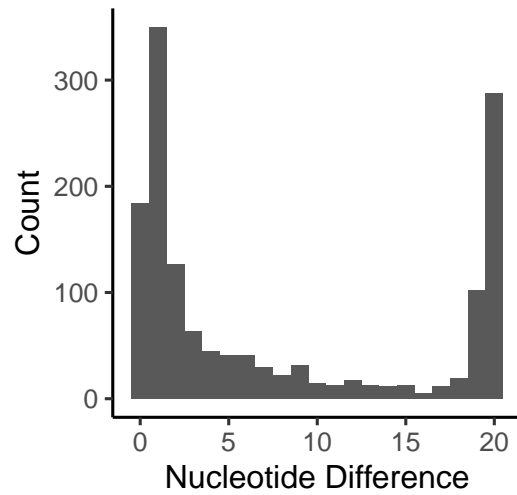
### IGHV3-15\*01\_02

3142 sequences assigned  
548 (17.4%) exact matches, in which:  
311 unique CDR3  
6 unique J



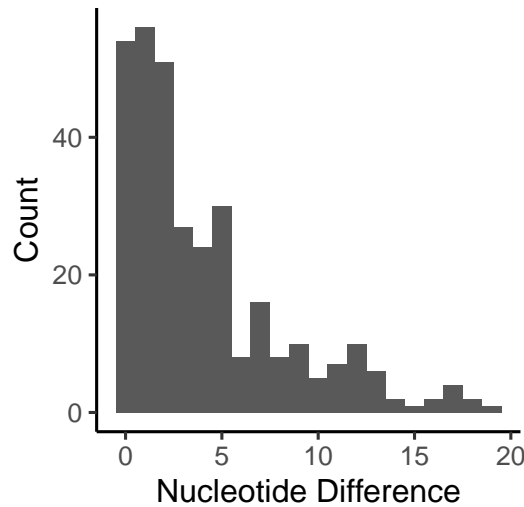
### IGHV3-7\*03

2447 sequences assigned  
184 (7.5%) exact matches, in which:  
121 unique CDR3  
5 unique J



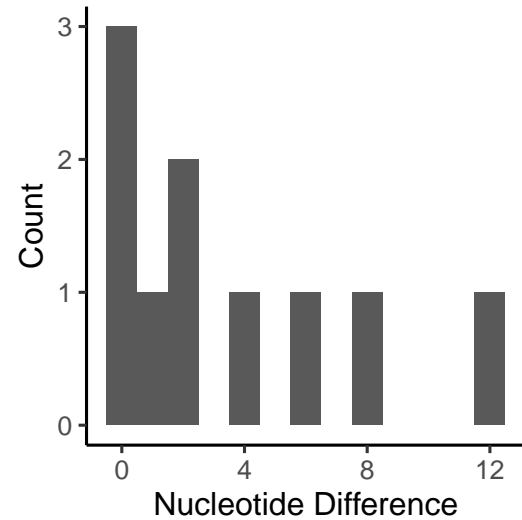
### IGHV3-11\*04

338 sequences assigned  
54 (16%) exact matches, in which:  
50 unique CDR3  
6 unique J



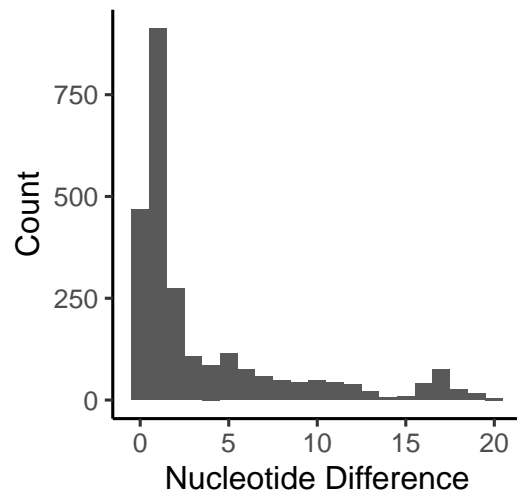
### IGHV3-19\*01

10 sequences assigned  
3 (30%) exact matches, in which:  
3 unique CDR3  
1 unique J



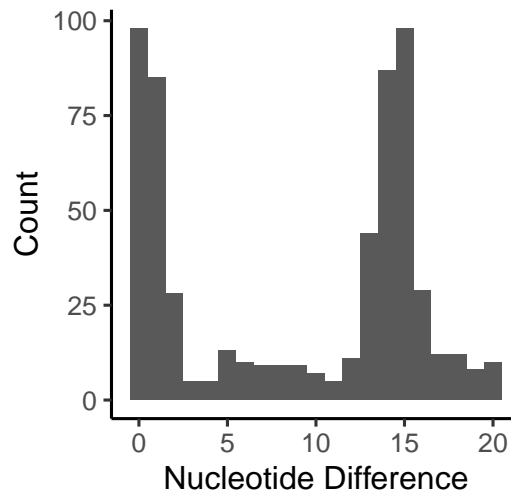
### IGHV3-9\*01

5008 sequences assigned  
467 (9.3%) exact matches, in which:  
286 unique CDR3  
7 unique J



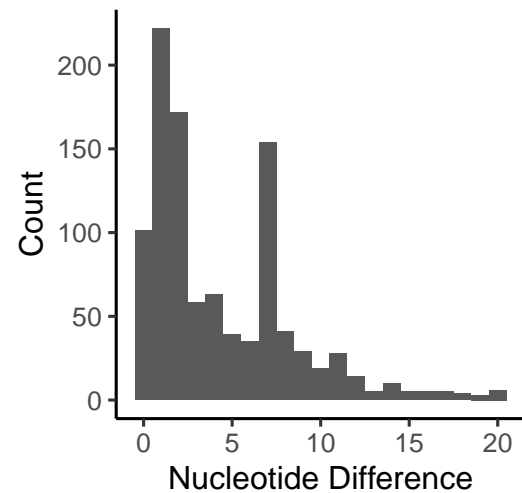
### IGHV3-13\*01

709 sequences assigned  
98 (13.8%) exact matches, in which:  
74 unique CDR3  
7 unique J



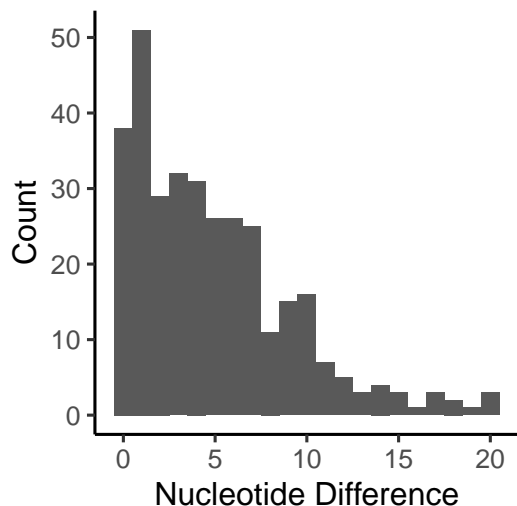
### IGHV3-20\*03\_04

6374 sequences assigned  
101 (1.6%) exact matches, in which:  
64 unique CDR3  
5 unique J



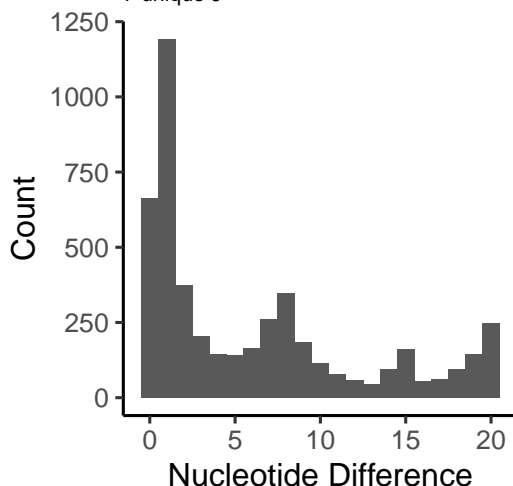
### IGHV3-21\*04

346 sequences assigned  
38 (11%) exact matches, in which:  
35 unique CDR3  
7 unique J



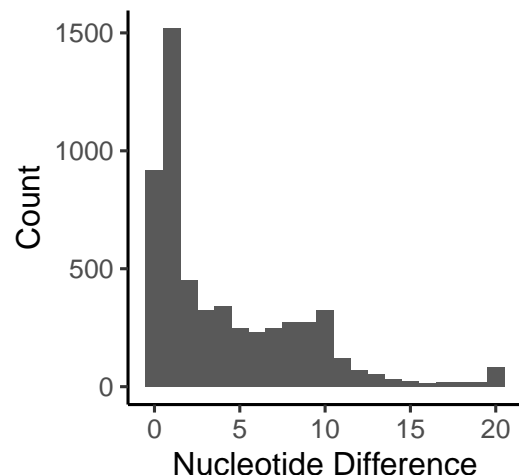
### IGHV3-23\*01\_04

5849 sequences assigned  
663 (11.3%) exact matches, in which:  
395 unique CDR3  
7 unique J



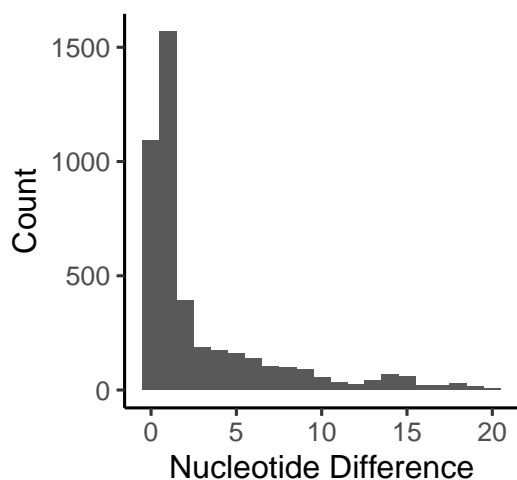
### IGHV3-30\*04

6027 sequences assigned  
918 (15.2%) exact matches, in which:  
545 unique CDR3  
7 unique J



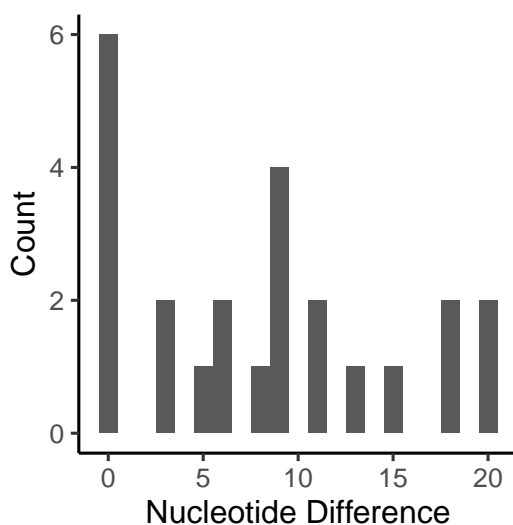
### IGHV3-21\*01\_02

4519 sequences assigned  
1093 (24.2%) exact matches, in which:  
654 unique CDR3  
7 unique J



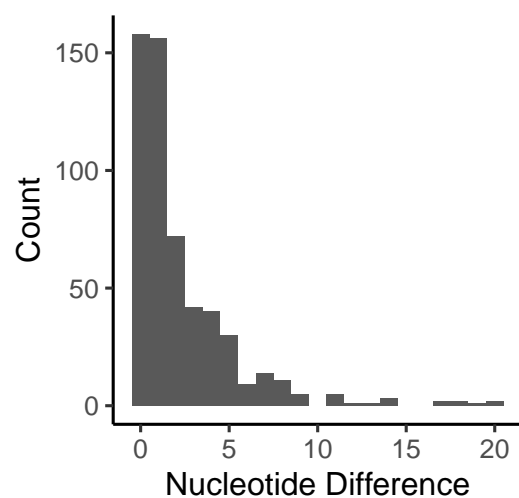
### IGHV3-30-3\*01

27 sequences assigned  
6 (22.2%) exact matches, in which:  
6 unique CDR3  
3 unique J



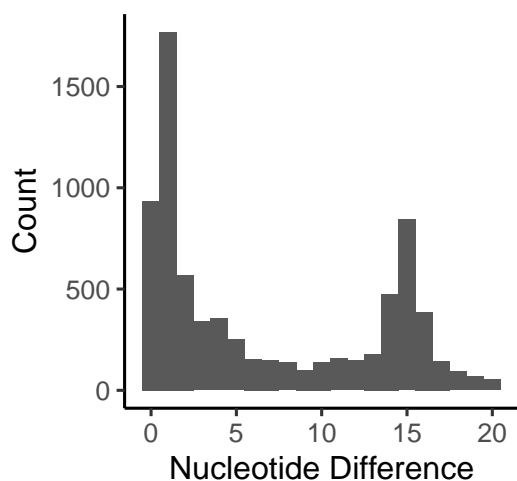
### IGHV3-33\*01

563 sequences assigned  
158 (28.1%) exact matches, in which:  
122 unique CDR3  
7 unique J



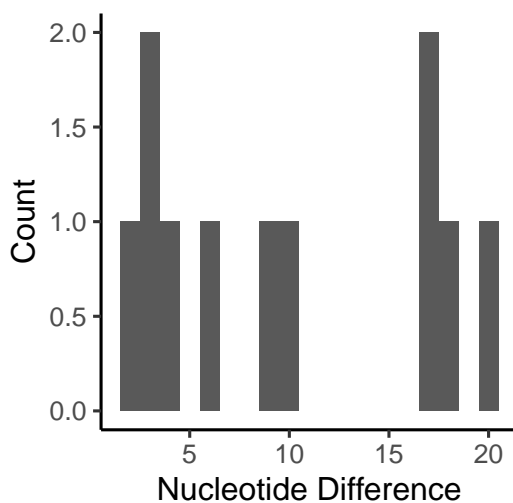
### IGHV3-23\*03

11447 sequences assigned  
936 (8.2%) exact matches, in which:  
544 unique CDR3  
7 unique J



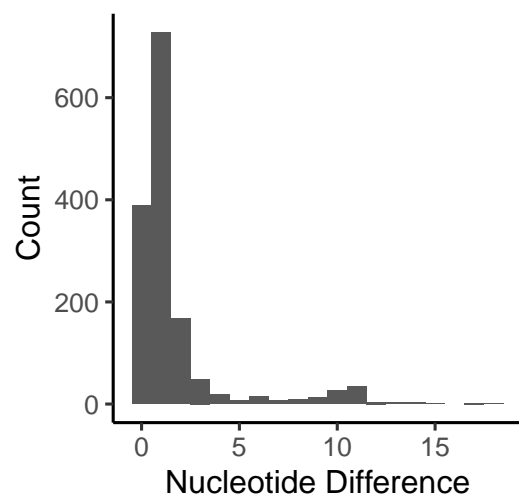
### IGHV3-30-3\*02

12 sequences assigned  
No exact matches.



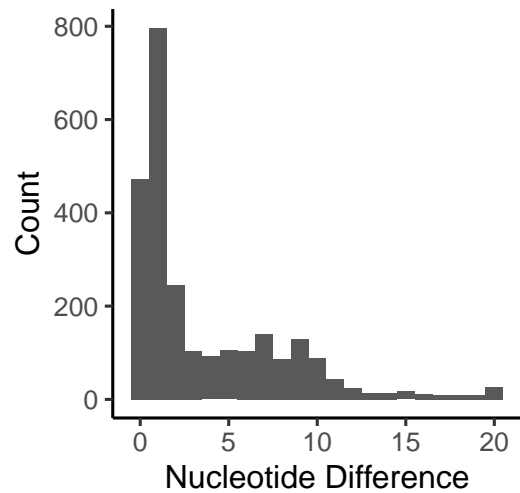
### IGHV3-33\*06

1488 sequences assigned  
389 (26.1%) exact matches, in which:  
207 unique CDR3  
6 unique J



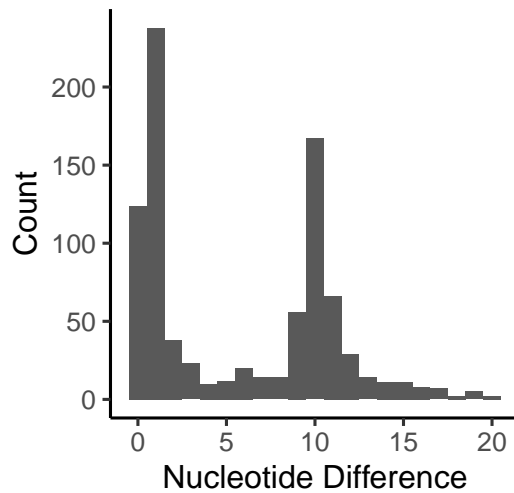
### IGHV3–33\*08

4418 sequences assigned  
473 (10.7%) exact matches, in which:  
307 unique CDR3  
6 unique J



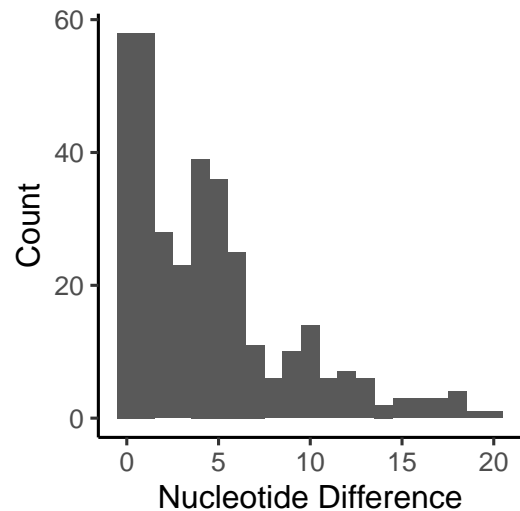
### IGHV3–43\*02

924 sequences assigned  
124 (13.4%) exact matches, in which:  
73 unique CDR3  
5 unique J



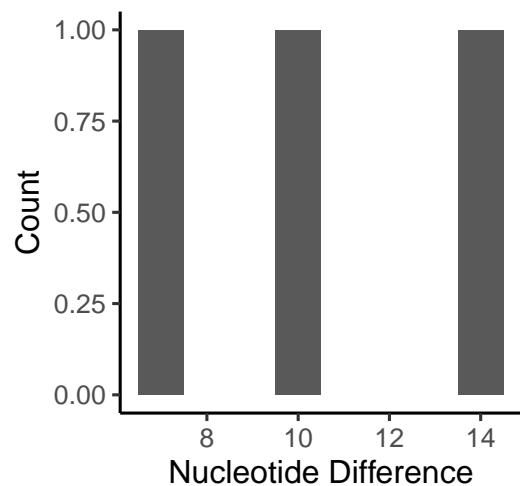
### IGHV3–48\*01

350 sequences assigned  
58 (16.6%) exact matches, in which:  
52 unique CDR3  
7 unique J



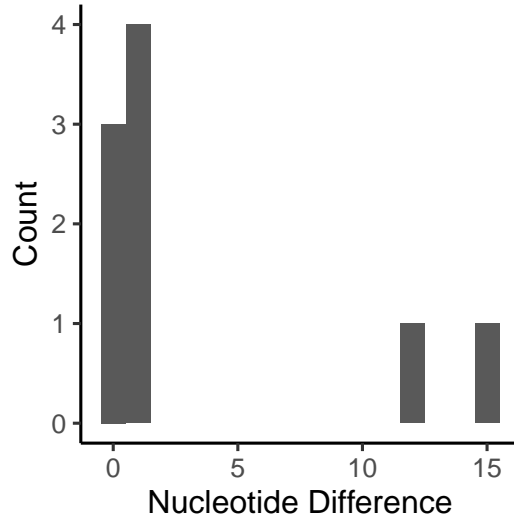
### IGHV3–35\*01

3 sequences assigned  
No exact matches.



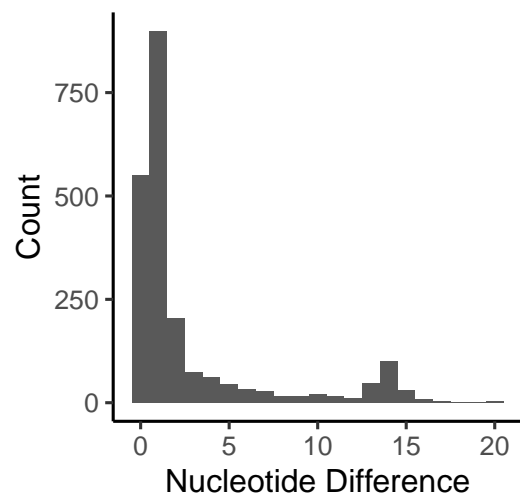
### IGHV3–47\*01

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



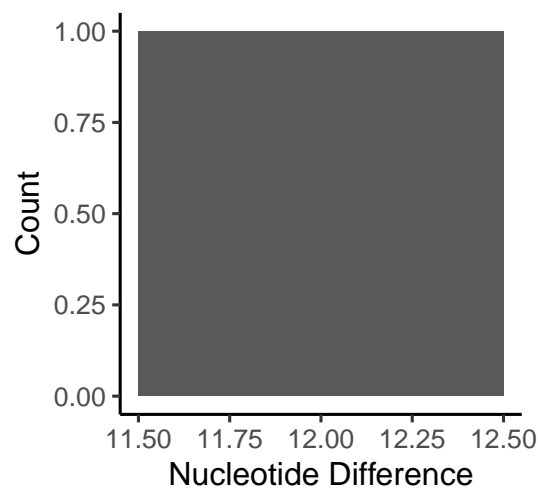
### IGHV3–48\*02

2226 sequences assigned  
549 (24.7%) exact matches, in which:  
311 unique CDR3  
6 unique J



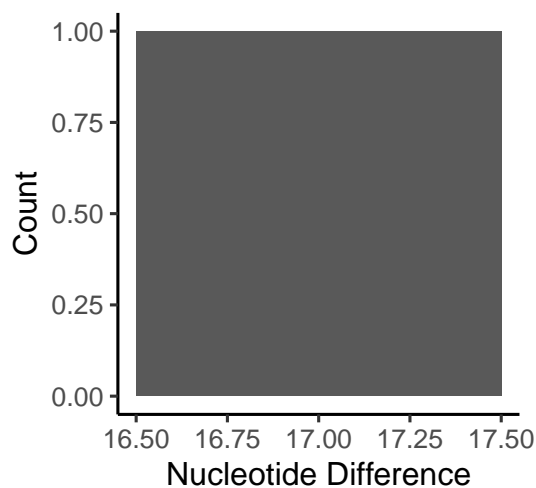
### IGHV3–38–3\*01

1 sequences assigned  
No exact matches.



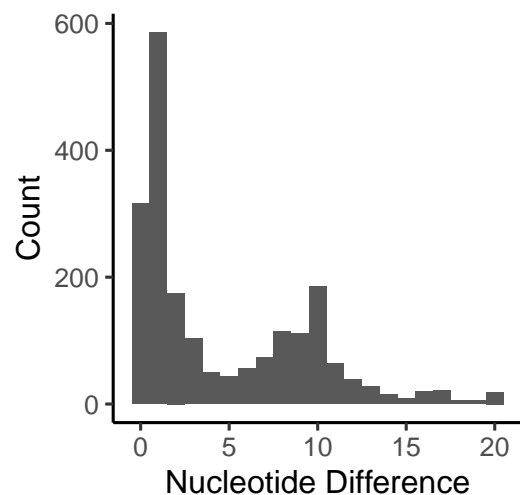
### IGHV3–47\*02

1 sequences assigned  
No exact matches.



### IGHV3–48\*03

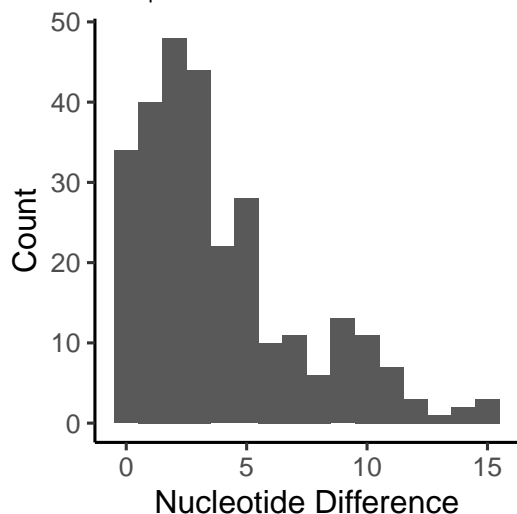
3000 sequences assigned  
316 (10.5%) exact matches, in which:  
191 unique CDR3  
5 unique J





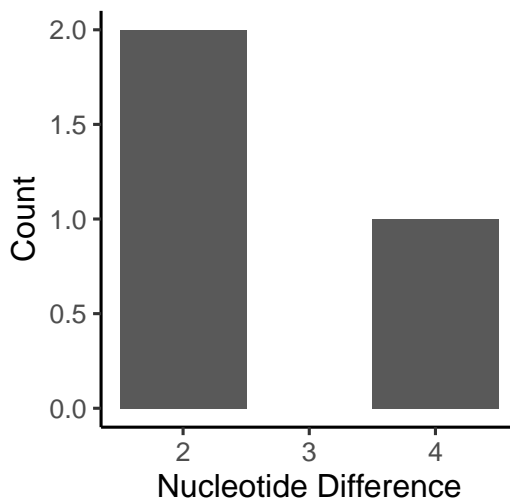
### IGHV3-48\*04

318 sequences assigned  
34 (10.7%) exact matches, in which:  
31 unique CDR3  
5 unique J



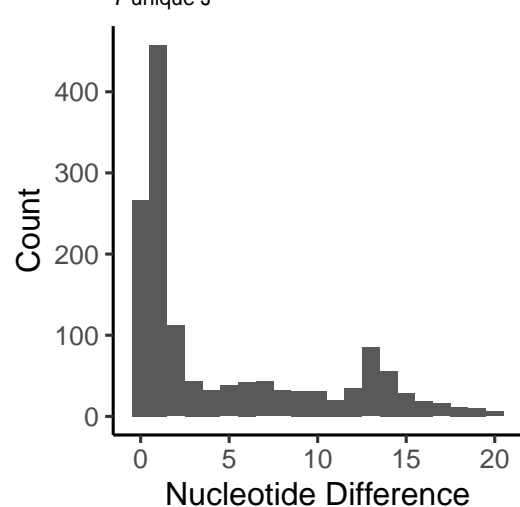
### IGHV3-52\*01\_03

3 sequences assigned  
No exact matches.



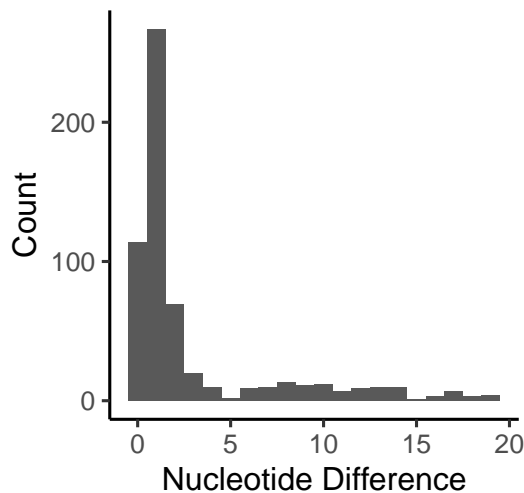
### IGHV3-66\*01

1648 sequences assigned  
267 (16.2%) exact matches, in which:  
171 unique CDR3  
7 unique J



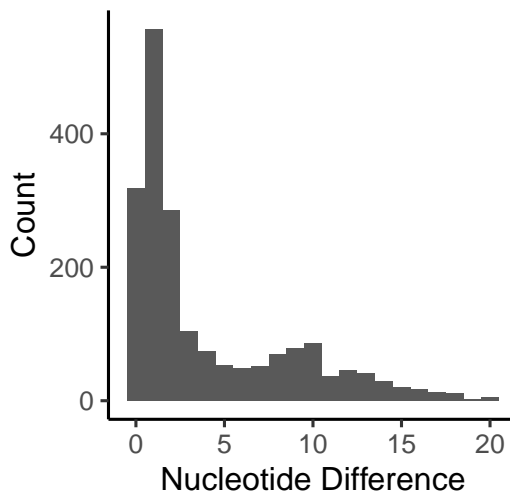
### IGHV3-49\*04

600 sequences assigned  
114 (19%) exact matches, in which:  
65 unique CDR3  
6 unique J



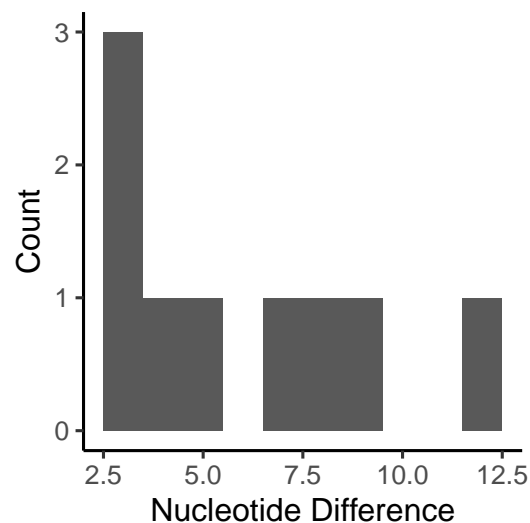
### IGHV3-53\*01\_02

2305 sequences assigned  
319 (13.8%) exact matches, in which:  
207 unique CDR3  
7 unique J



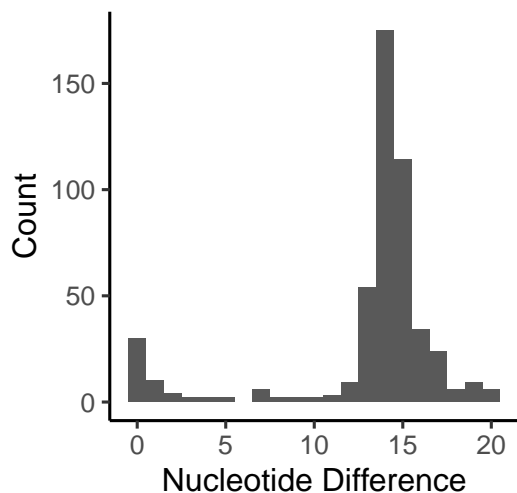
### IGHV3-69-1\*01

12 sequences assigned  
No exact matches.



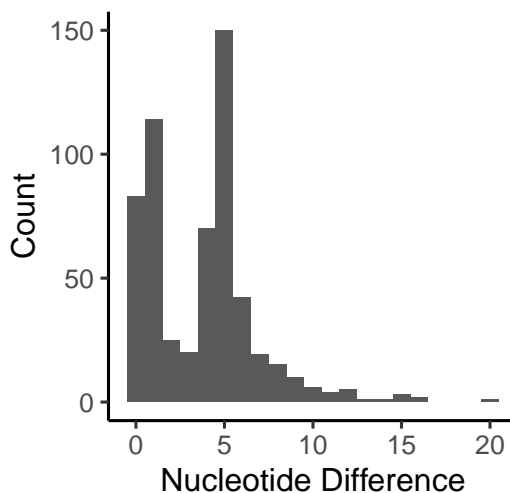
### IGHV3-49\*03\_05

508 sequences assigned  
30 (5.9%) exact matches, in which:  
23 unique CDR3  
5 unique J



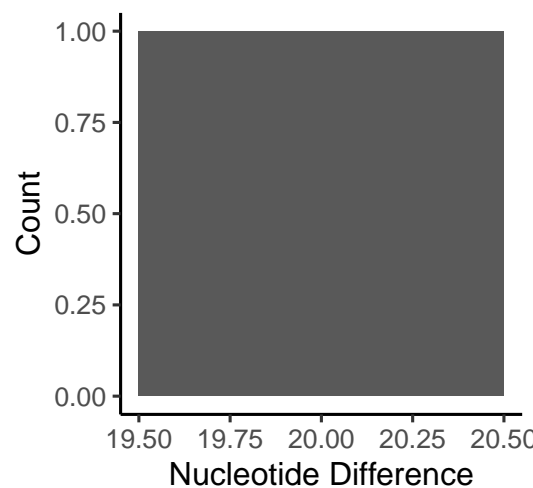
### IGHV3-64\*01

579 sequences assigned  
83 (14.3%) exact matches, in which:  
51 unique CDR3  
5 unique J



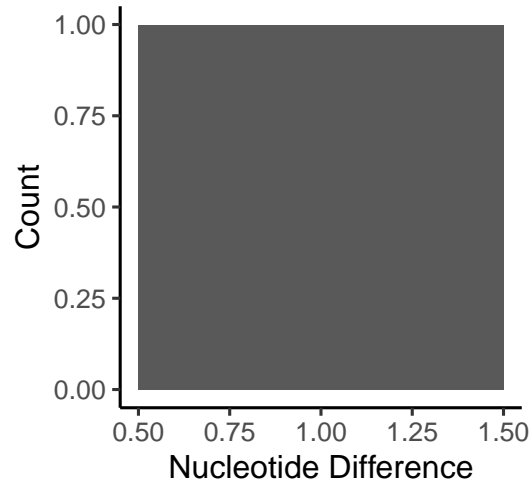
### IGHV3-69-1\*02

9 sequences assigned  
No exact matches.



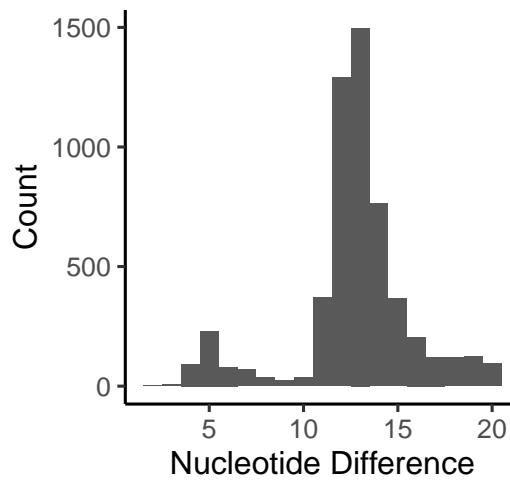
### IGHV3-71\*02

1 sequences assigned  
No exact matches.



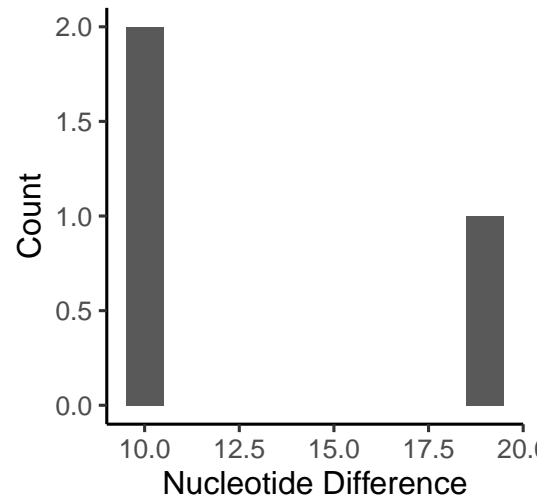
### IGHV3-74\*03

5897 sequences assigned  
No exact matches.



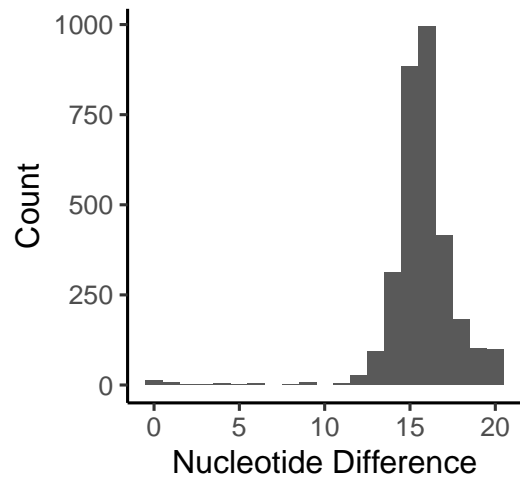
### IGHV3-64D\*06

15 sequences assigned  
No exact matches.



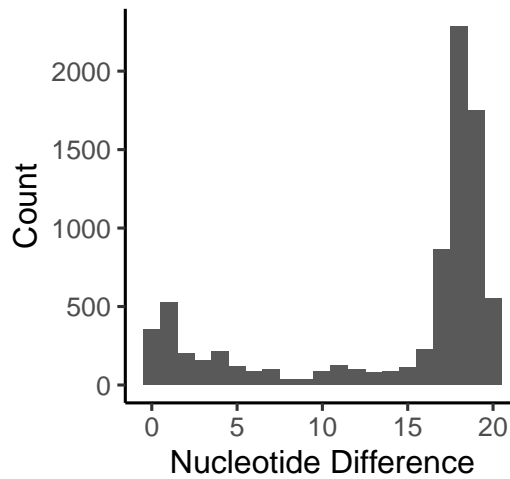
### IGHV3-72\*01

3690 sequences assigned  
12 (0.3%) exact matches, in which:  
9 unique CDR3  
4 unique J



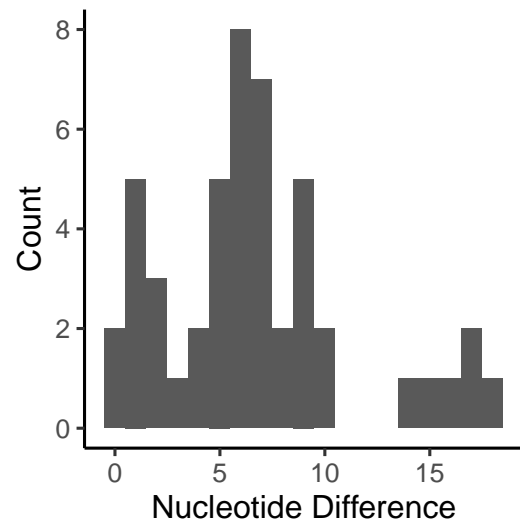
### IGHV3-74\*01\_02

10327 sequences assigned  
354 (3.4%) exact matches, in which:  
228 unique CDR3  
6 unique J



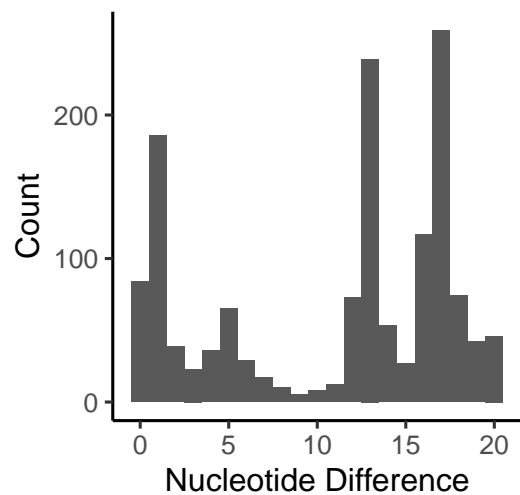
### IGHV3-NL1\*01

65 sequences assigned  
2 (3.1%) exact matches, in which:  
2 unique CDR3  
1 unique J



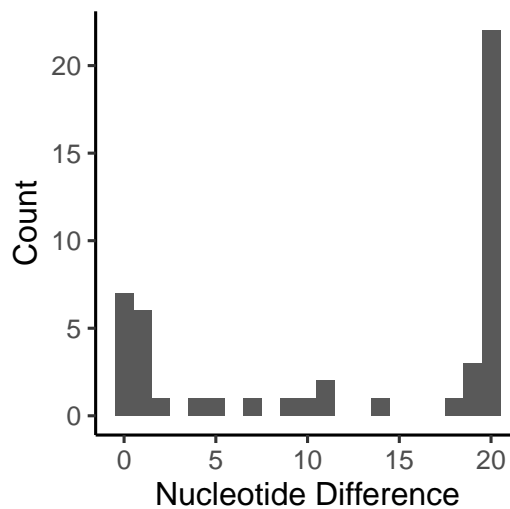
### IGHV3-73\*01\_02

1955 sequences assigned  
84 (4.3%) exact matches, in which:  
45 unique CDR3  
5 unique J



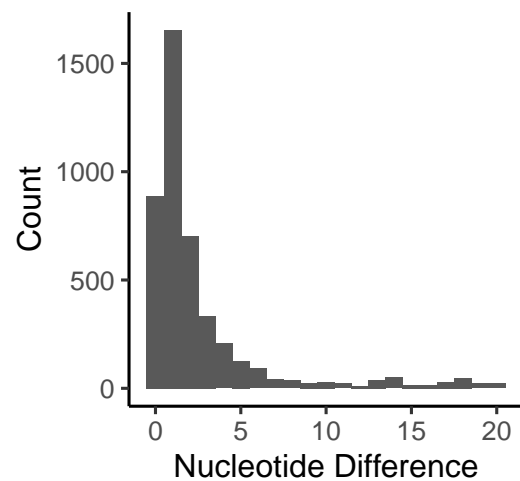
### IGHV3-43D\*03

463 sequences assigned  
7 (1.5%) exact matches, in which:  
5 unique CDR3  
3 unique J



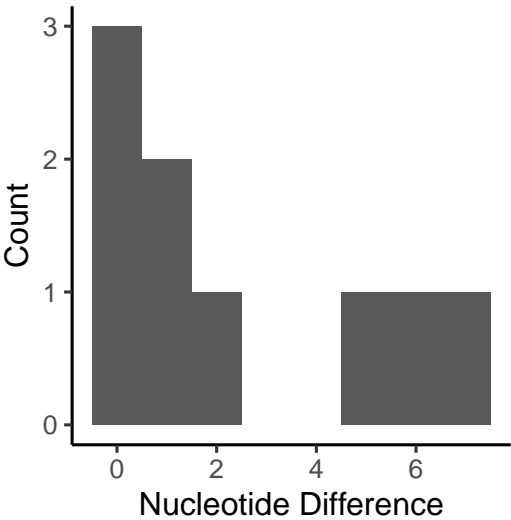
### IGHV4-4\*07

9767 sequences assigned  
889 (9.1%) exact matches, in which:  
631 unique CDR3  
7 unique J



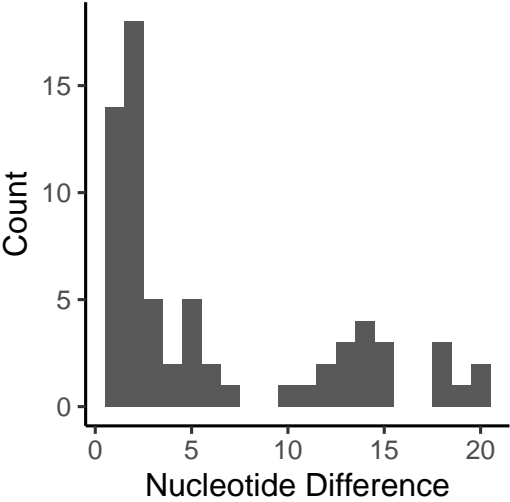
IGHV4-28\*03

10 sequences assigned  
3 (30%) exact matches, in which:  
3 unique CDR3  
3 unique J



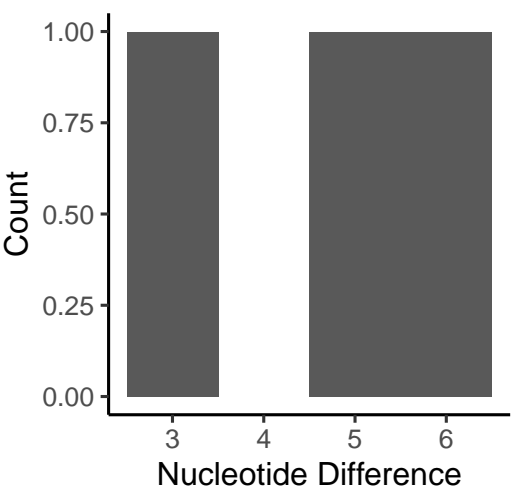
IGHV4-30-2\*03

113 sequences assigned  
No exact matches.



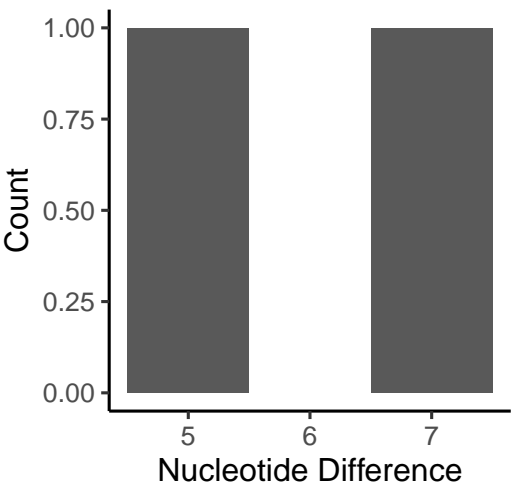
IGHV4-30-4\*08

17 sequences assigned  
No exact matches.



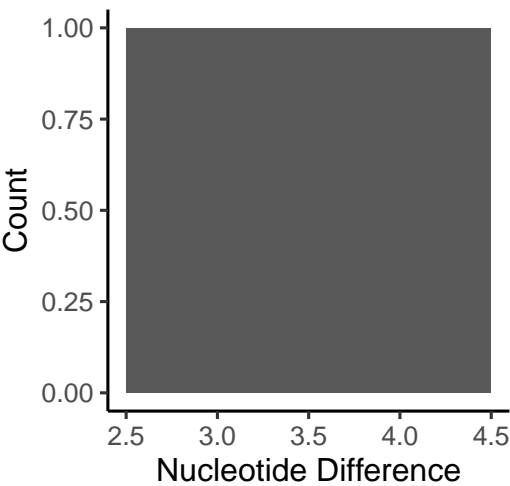
IGHV4-28\*01\_07

3 sequences assigned  
No exact matches.



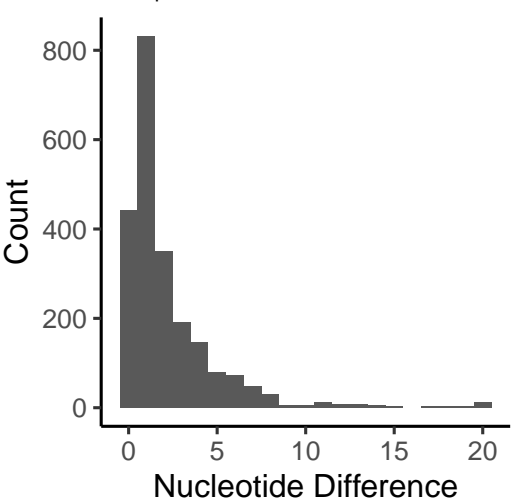
IGHV4-30-2\*04

4 sequences assigned  
No exact matches.



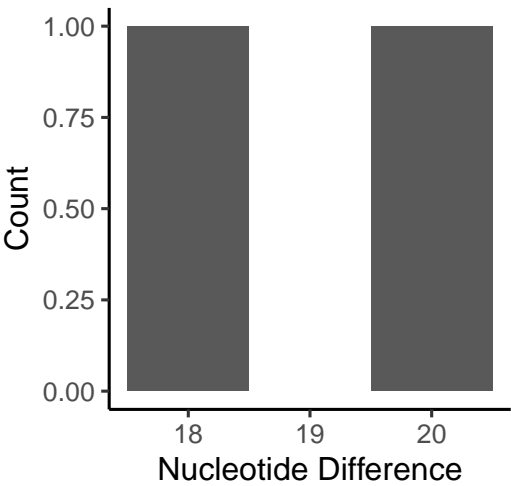
IGHV4-31\*02

5384 sequences assigned  
442 (8.2%) exact matches, in which:  
310 unique CDR3  
7 unique J



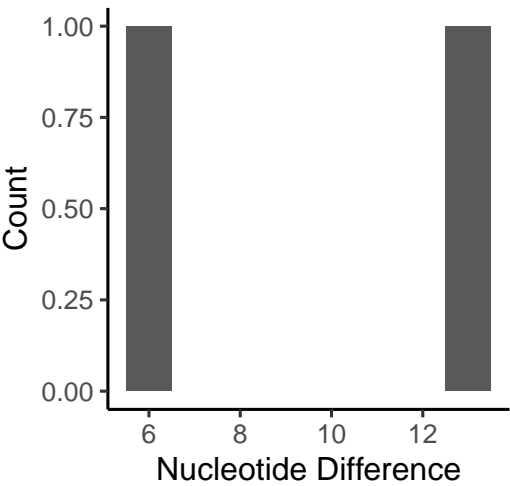
IGHV4-30-4\*01

5 sequences assigned  
No exact matches.



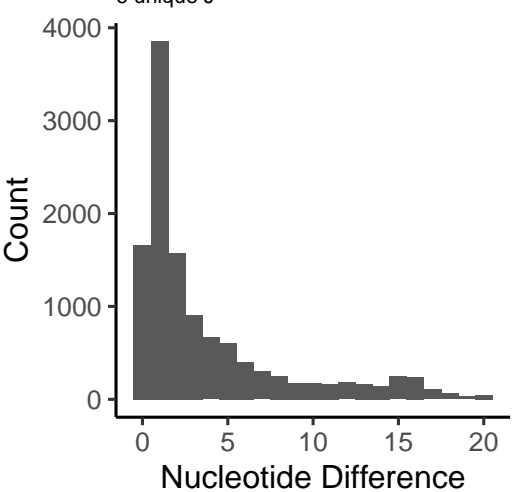
IGHV4-30-4\*07

2 sequences assigned  
No exact matches.



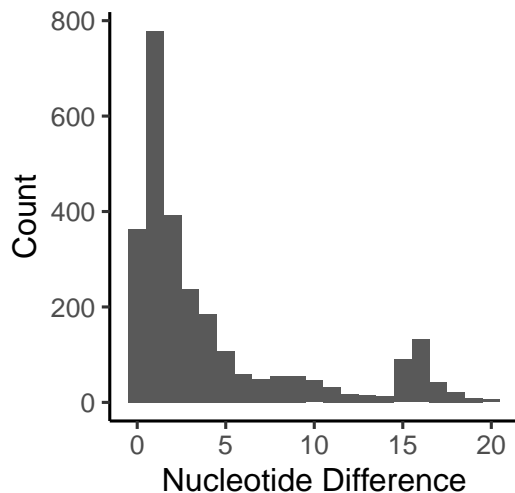
IGHV4-34\*01\_02

14556 sequences assigned  
1659 (11.4%) exact matches, in which:  
980 unique CDR3  
6 unique J



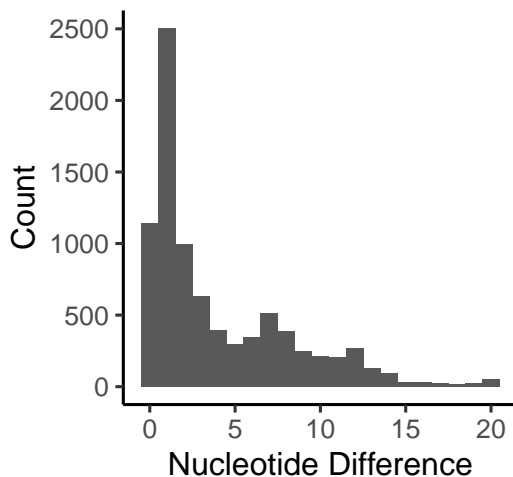
### IGHV4-38-2\*02

2776 sequences assigned  
364 (13.1%) exact matches, in which:  
257 unique CDR3  
6 unique J



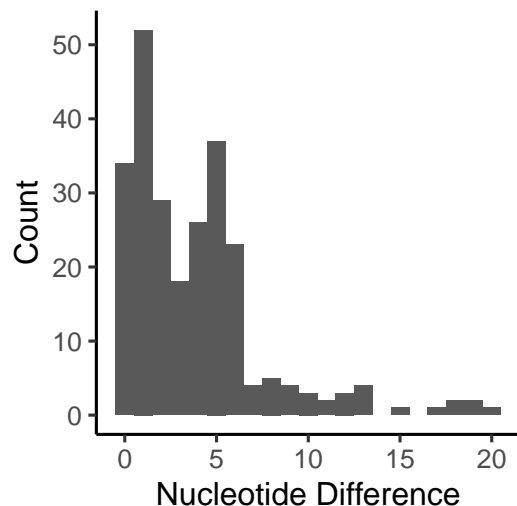
### IGHV4-59\*08

9366 sequences assigned  
1140 (12.2%) exact matches, in which:  
756 unique CDR3  
7 unique J



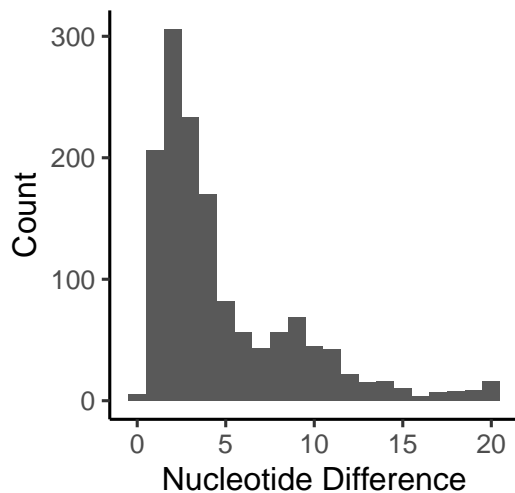
### IGHV4-61\*08

265 sequences assigned  
34 (12.8%) exact matches, in which:  
29 unique CDR3  
5 unique J



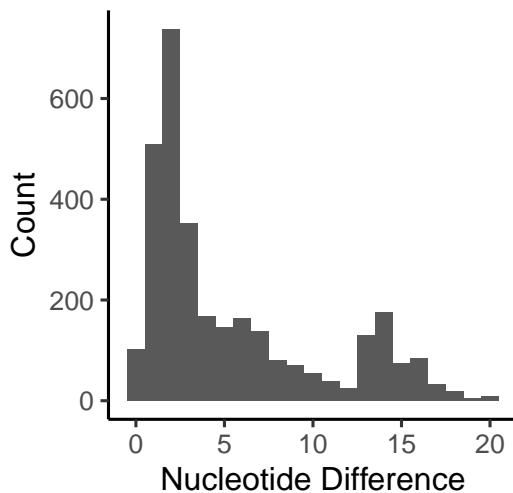
### IGHV4-39\*07

1607 sequences assigned  
5 (0.3%) exact matches, in which:  
5 unique CDR3  
3 unique J



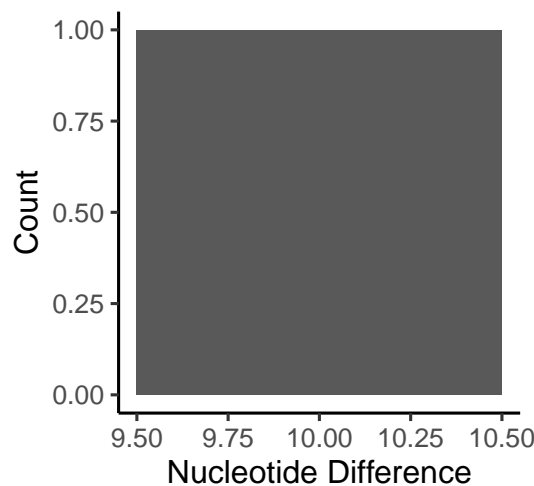
### IGHV4-59\*12

3194 sequences assigned  
103 (3.2%) exact matches, in which:  
98 unique CDR3  
6 unique J



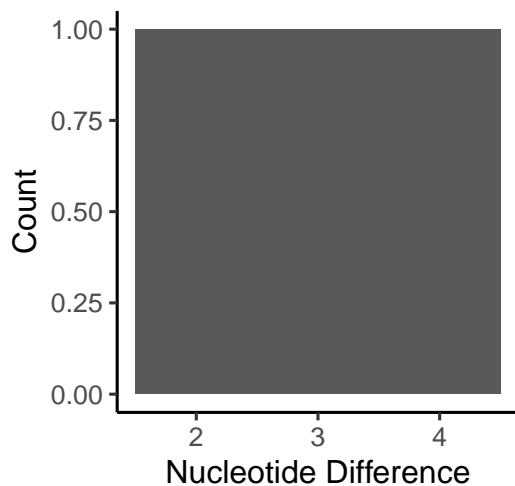
### IGHV1/OR15-2\*01

1 sequences assigned  
No exact matches.



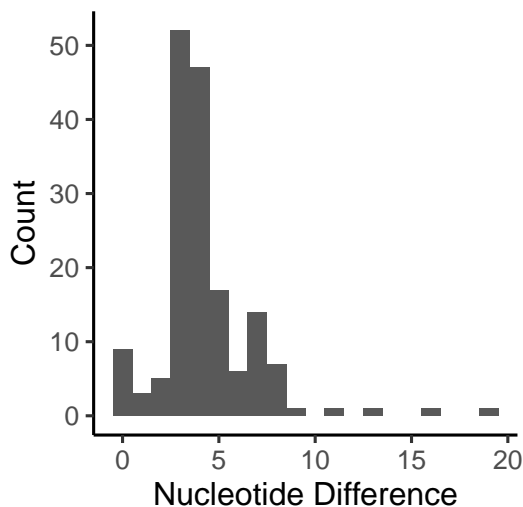
### IGHV4-55\*09

3 sequences assigned  
No exact matches.



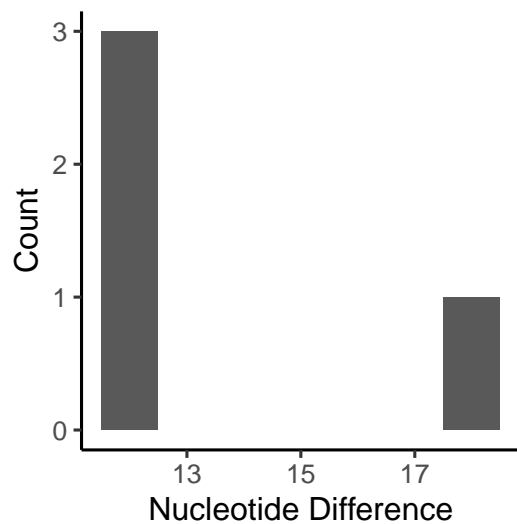
### IGHV4-61\*02

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



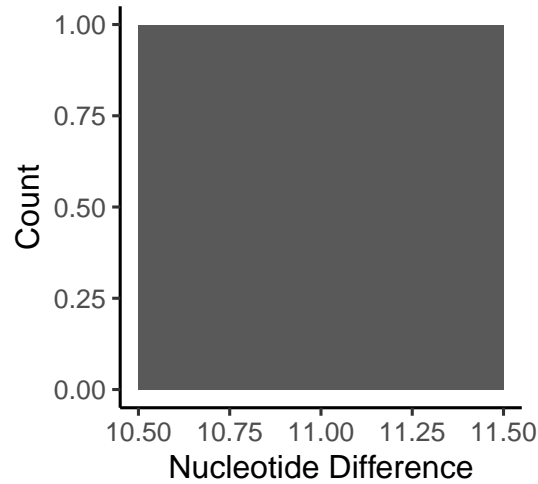
### IGHV1/OR15-2\*02\_03

14 sequences assigned  
No exact matches.



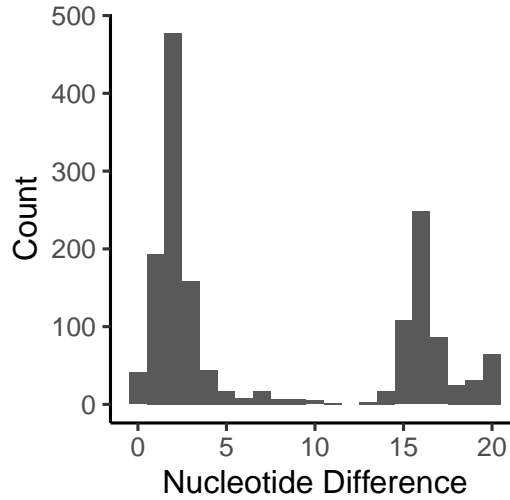
### IGHV1/OR15-3\*02

1 sequences assigned  
No exact matches.



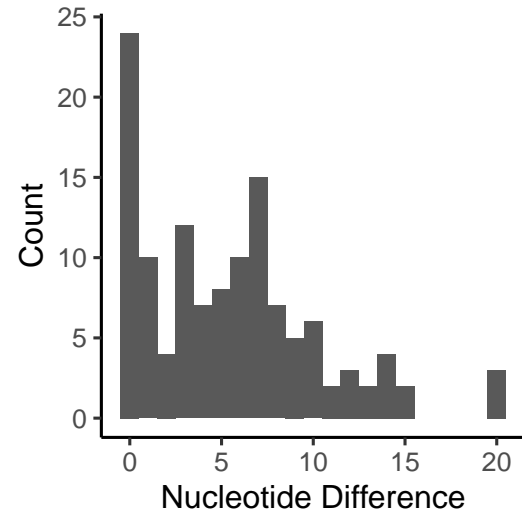
### IGHV5-51\*07

1657 sequences assigned  
41 (2.5%) exact matches, in which:  
28 unique CDR3  
6 unique J



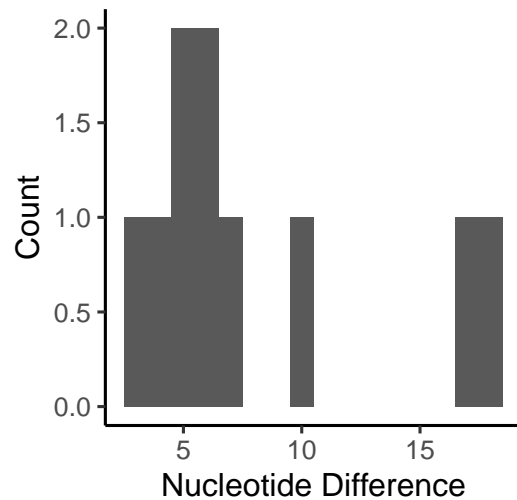
### IGHV6-1\*01\_02\_A315G

126 sequences assigned  
24 (19%) exact matches, in which:  
24 unique CDR3  
5 unique J



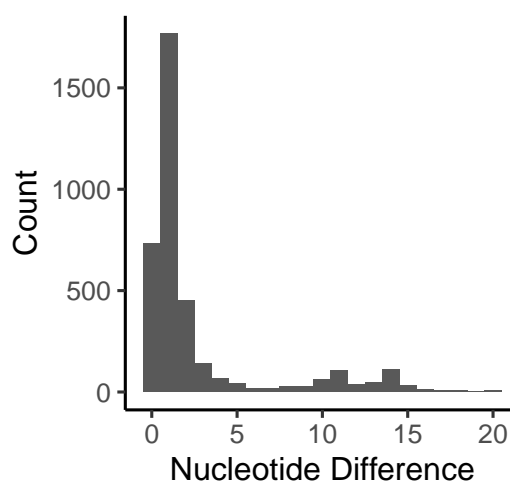
### IGHV4/OR15-8\*01

15 sequences assigned  
No exact matches.



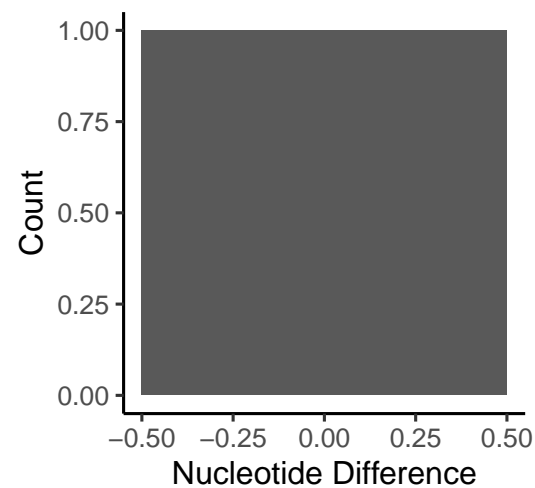
### IGHV5-51\*01\_03

3815 sequences assigned  
732 (19.2%) exact matches, in which:  
379 unique CDR3  
6 unique J



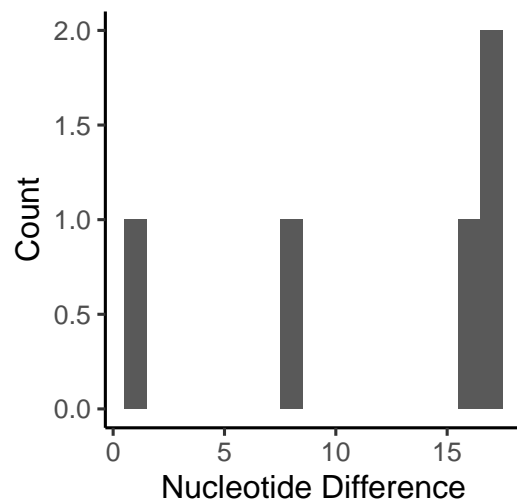
### IGHV7-4-1\*01

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



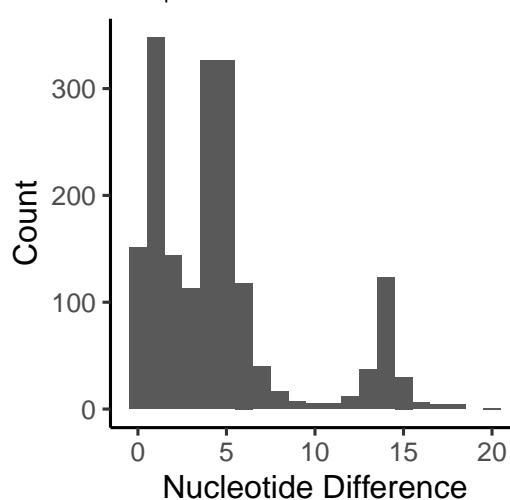
### IGHV5-10-1\*01\_03

5 sequences assigned  
No exact matches.



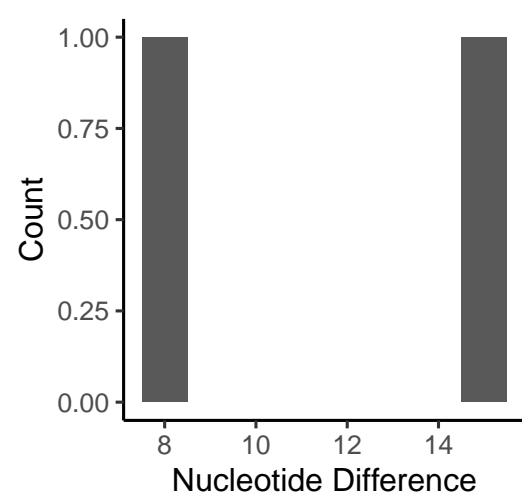
### IGHV6-1\*01\_02

1827 sequences assigned  
151 (8.3%) exact matches, in which:  
106 unique CDR3  
6 unique J

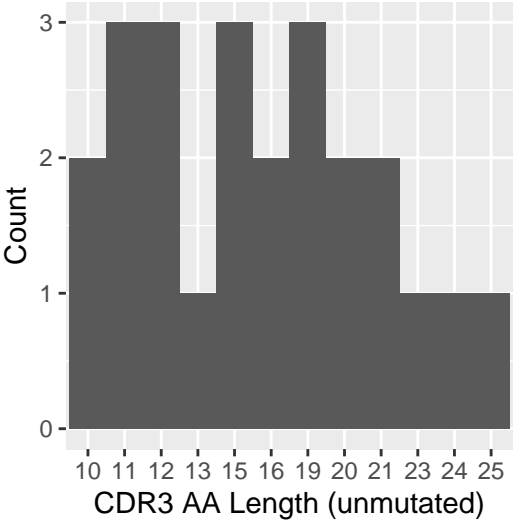


### IGHV7-4-1\*02

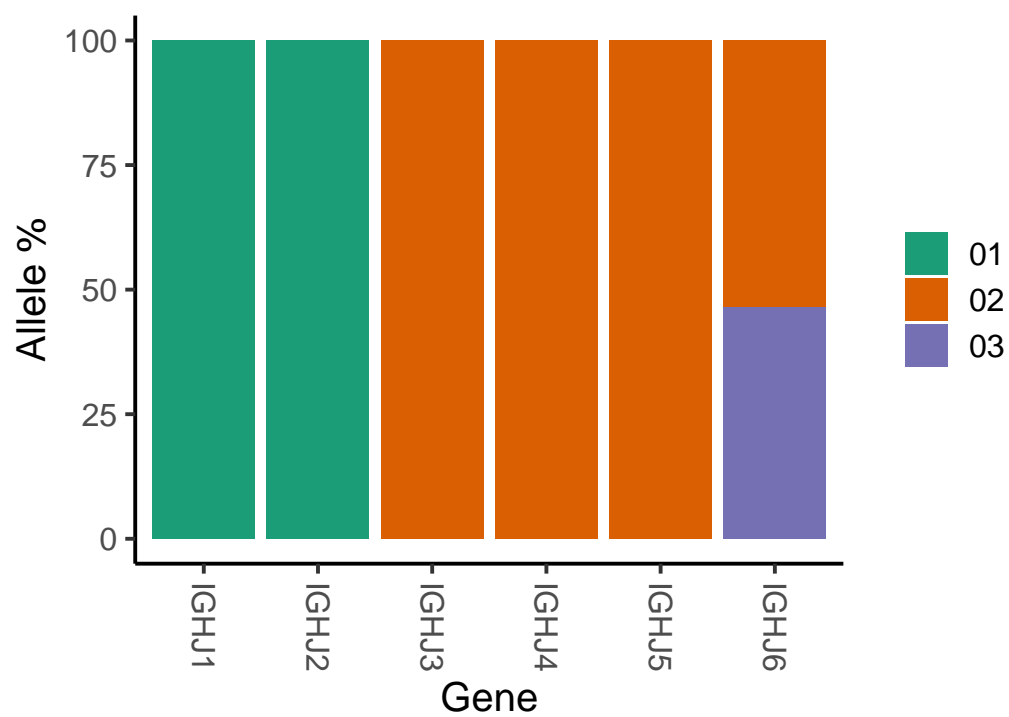
2 sequences assigned  
No exact matches.



IGHV6-1\*01\_02\_A315G



Allele Usage



Sequence Count by IGHJ6 allele usage

