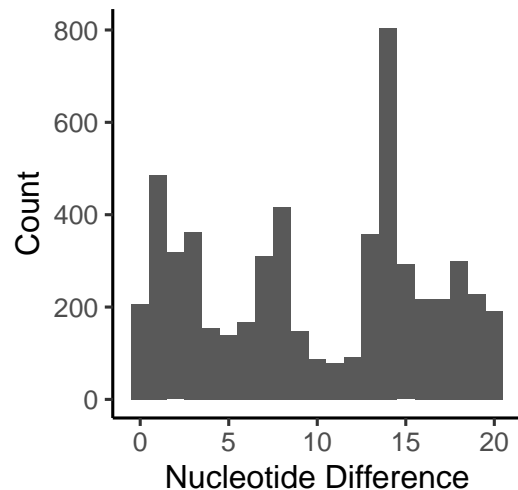


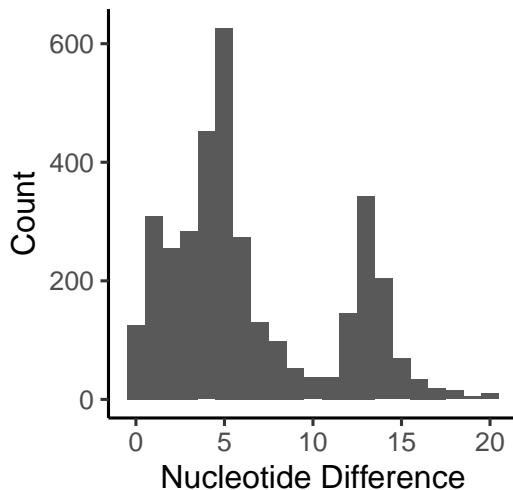
IGHV1-2*06

6635 sequences assigned
207 (3.1%) exact matches, in which:
129 unique CDR3
7 unique J



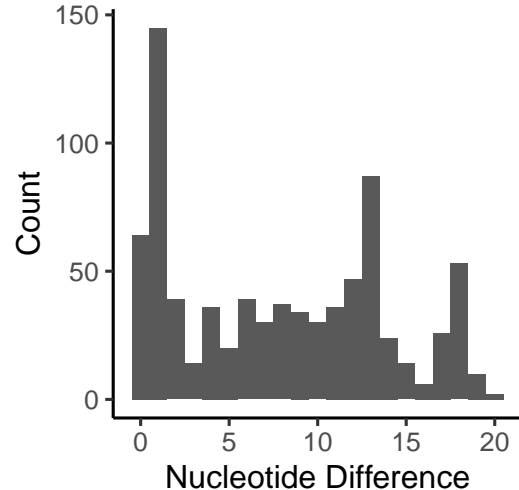
IGHV1-18*01

3729 sequences assigned
125 (3.4%) exact matches, in which:
78 unique CDR3
6 unique J



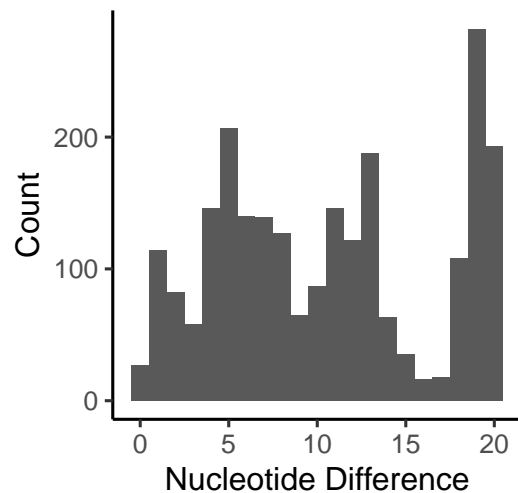
IGHV1-46*01

805 sequences assigned
64 (8%) exact matches, in which:
37 unique CDR3
5 unique J



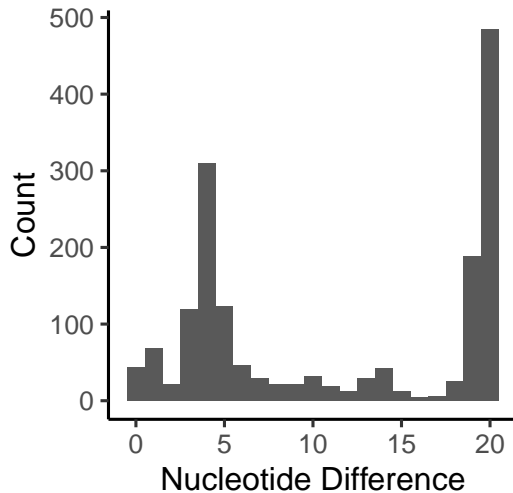
IGHV1-3*01_05

3192 sequences assigned
27 (0.8%) exact matches, in which:
18 unique CDR3
4 unique J



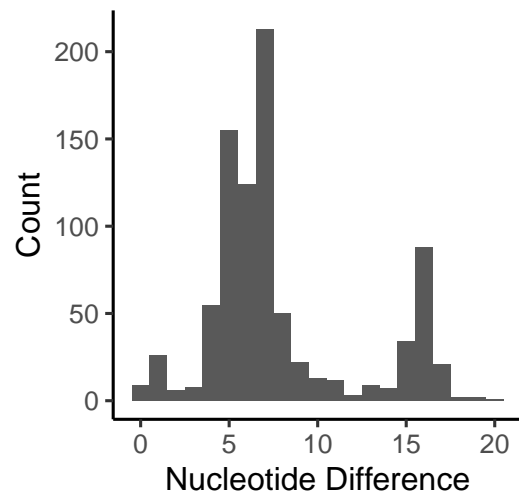
IGHV1-18*04

2755 sequences assigned
44 (1.6%) exact matches, in which:
33 unique CDR3
5 unique J



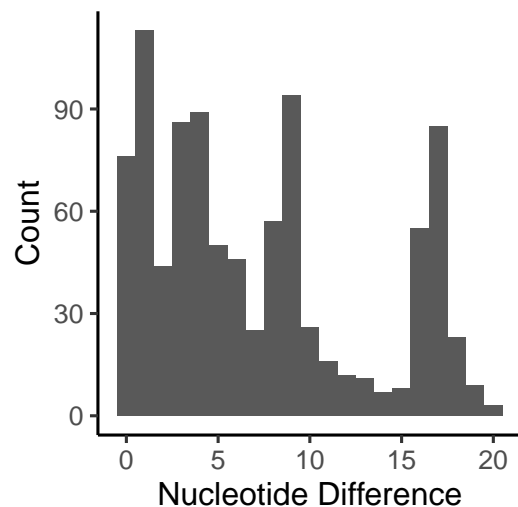
IGHV1-46*03

1147 sequences assigned
9 (0.8%) exact matches, in which:
7 unique CDR3
4 unique J



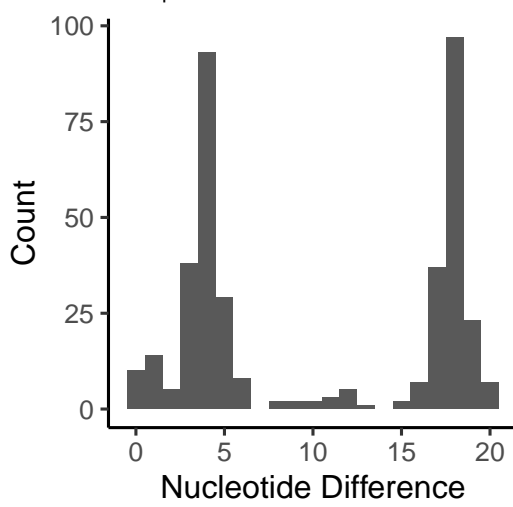
IGHV1-8*01

1073 sequences assigned
76 (7.1%) exact matches, in which:
53 unique CDR3
6 unique J



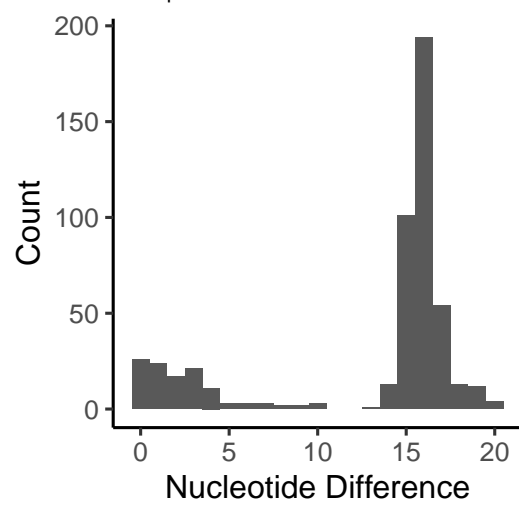
IGHV1-24*01

392 sequences assigned
10 (2.6%) exact matches, in which:
9 unique CDR3
3 unique J



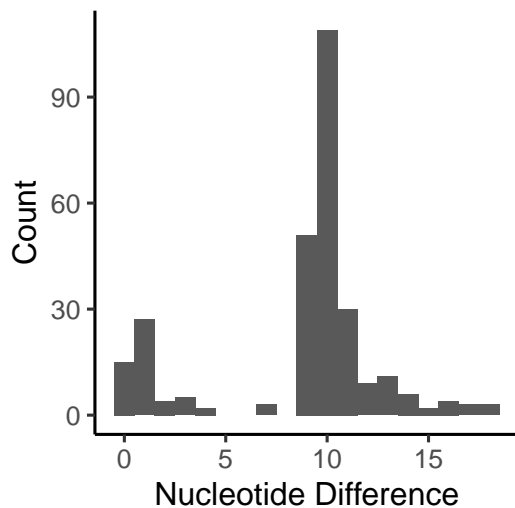
IGHV1-58*02

710 sequences assigned
26 (3.7%) exact matches, in which:
17 unique CDR3
3 unique J



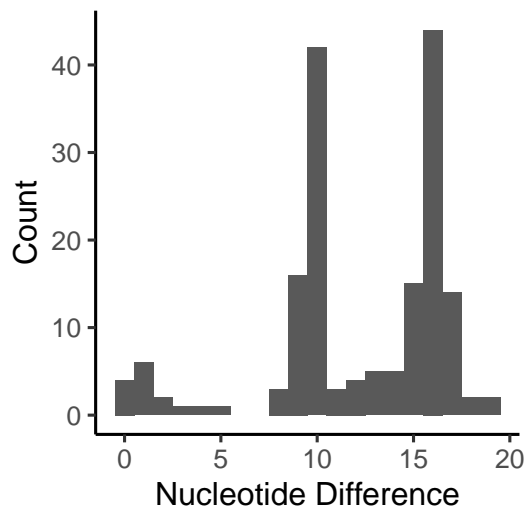
IGHV1-58*01_03

285 sequences assigned
15 (5.3%) exact matches, in which:
10 unique CDR3
4 unique J



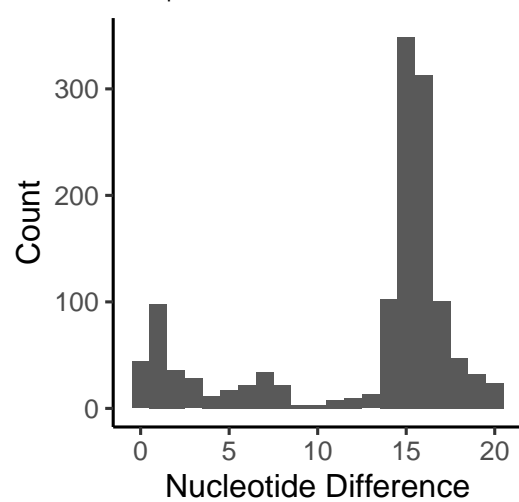
IGHV1-69*04_09

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



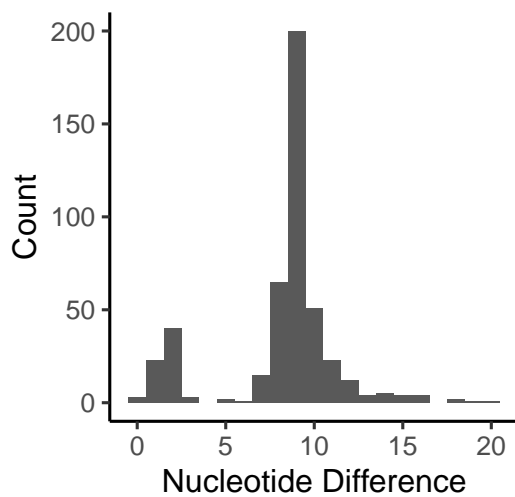
IGHV2-5*02

1706 sequences assigned
44 (2.6%) exact matches, in which:
25 unique CDR3
5 unique J



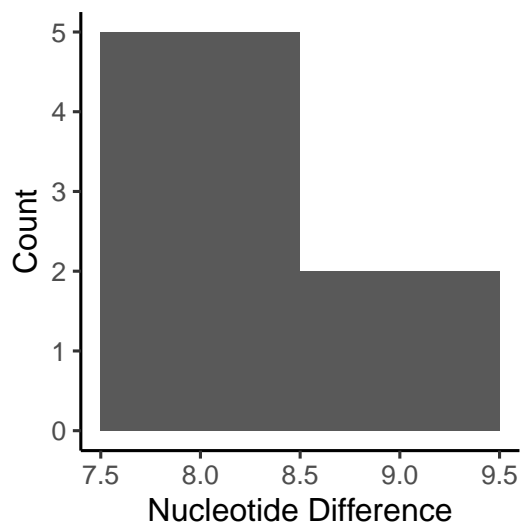
IGHV1-69*02

860 sequences assigned
3 (0.3%) exact matches, in which:
2 unique CDR3
1 unique J



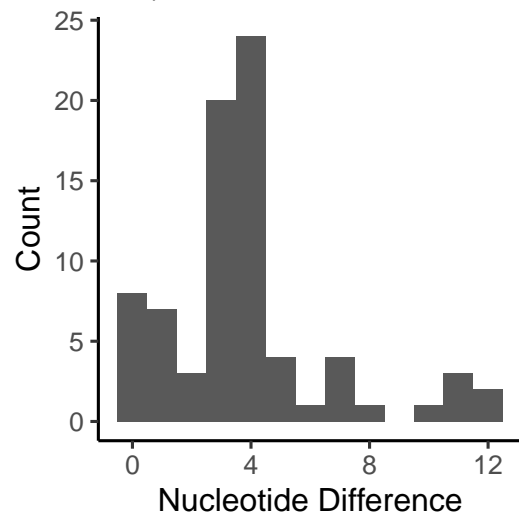
IGHV1-NL1*01

7 sequences assigned
No exact matches.



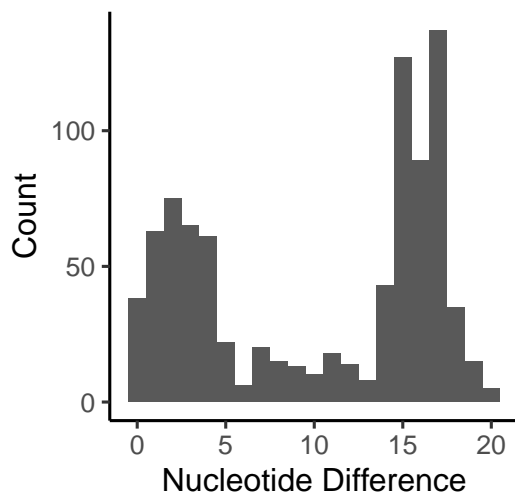
IGHV2-26*01

78 sequences assigned
8 (10.3%) exact matches, in which:
7 unique CDR3
3 unique J



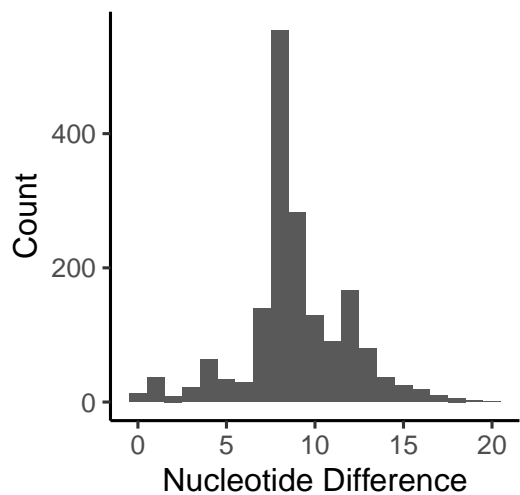
IGHV1-69*01_12_13

1102 sequences assigned
38 (3.4%) exact matches, in which:
33 unique CDR3
5 unique J



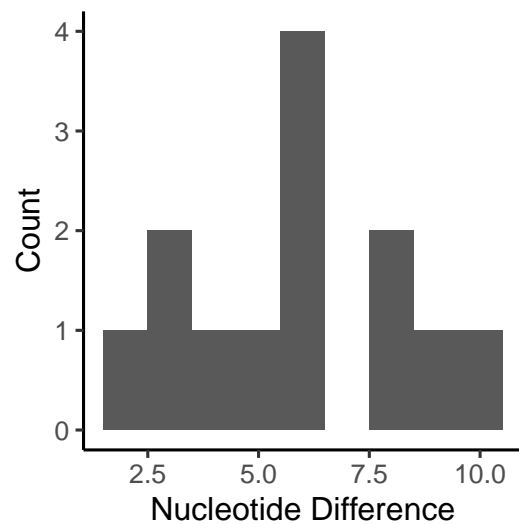
IGHV2-5*01

1946 sequences assigned
13 (0.7%) exact matches, in which:
9 unique CDR3
2 unique J



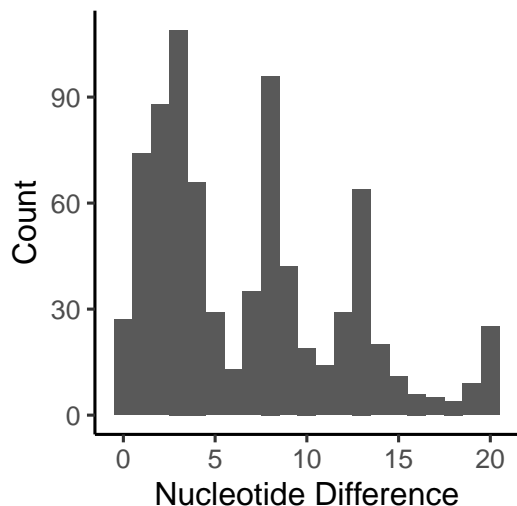
IGHV2-70*12

13 sequences assigned
No exact matches.



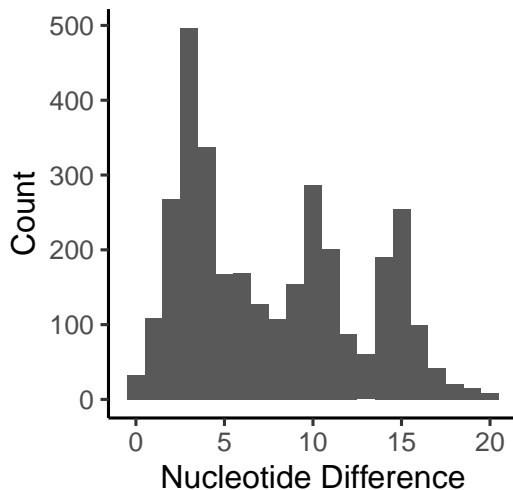
IGHV2-70*11_15

800 sequences assigned
27 (3.4%) exact matches, in which:
16 unique CDR3
3 unique J



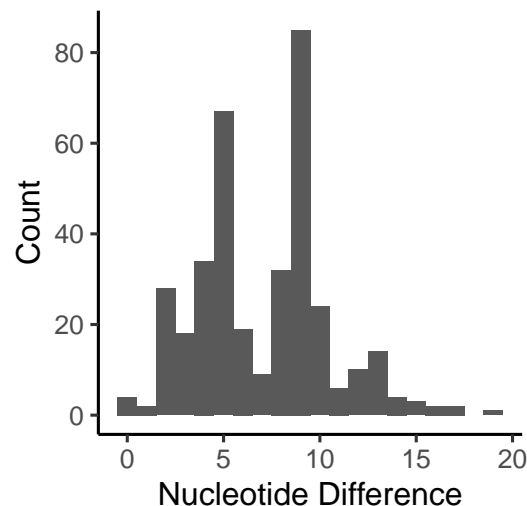
IGHV3-9*01

3290 sequences assigned
33 (1%) exact matches, in which:
20 unique CDR3
5 unique J



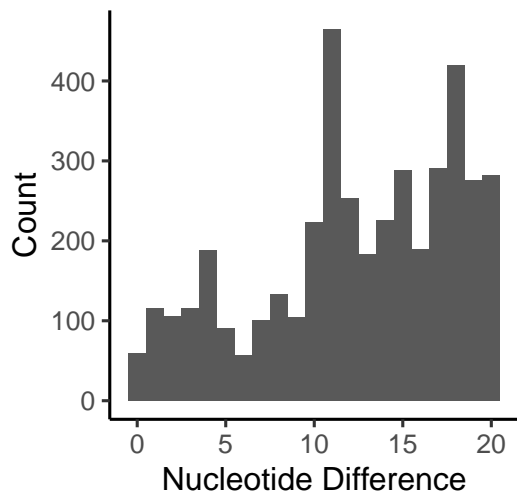
IGHV3-13*01

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



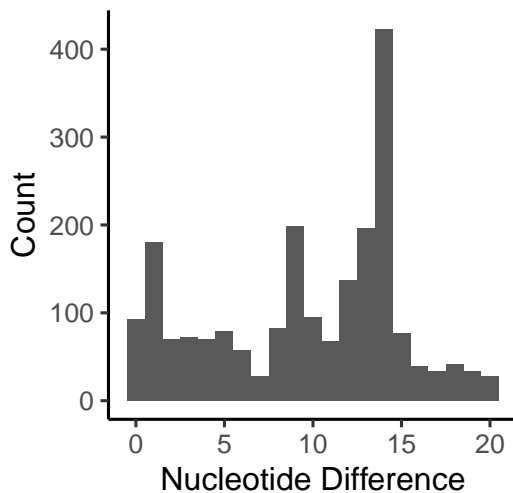
IGHV3-7*01

4752 sequences assigned
59 (1.2%) exact matches, in which:
37 unique CDR3
6 unique J



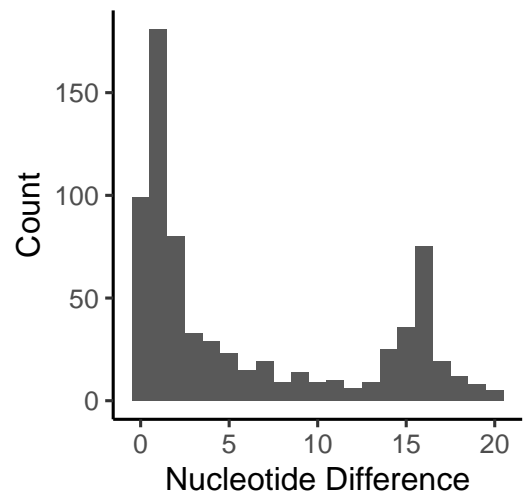
IGHV3-11*01

2432 sequences assigned
93 (3.8%) exact matches, in which:
51 unique CDR3
6 unique J



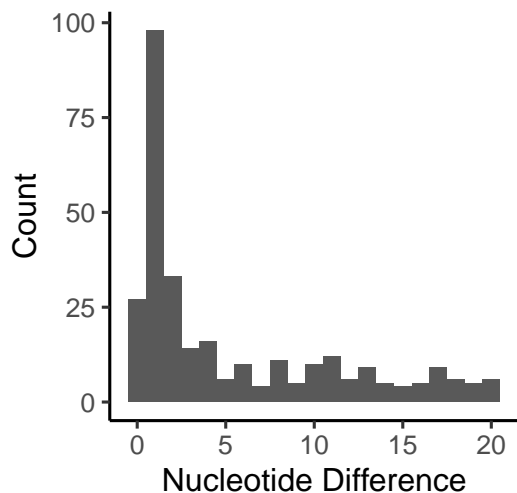
IGHV3-15*01_02

851 sequences assigned
99 (11.6%) exact matches, in which:
56 unique CDR3
6 unique J



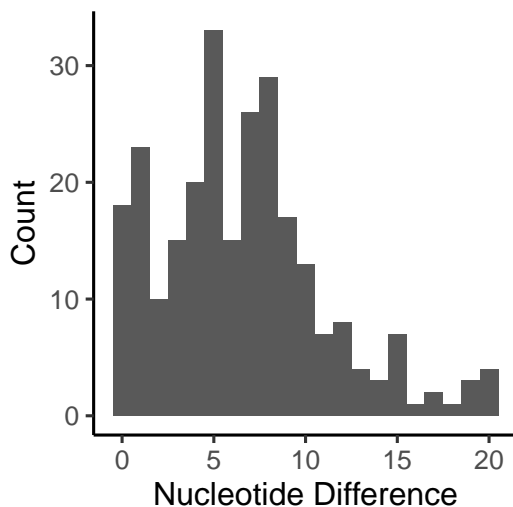
IGHV3-7*03

631 sequences assigned
27 (4.3%) exact matches, in which:
15 unique CDR3
2 unique J



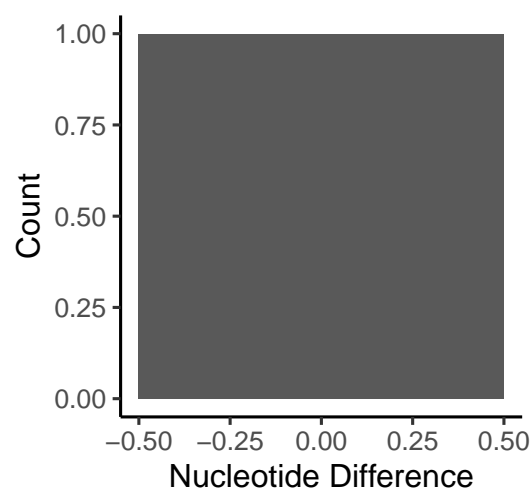
IGHV3-11*04

271 sequences assigned
18 (6.6%) exact matches, in which:
15 unique CDR3
4 unique J



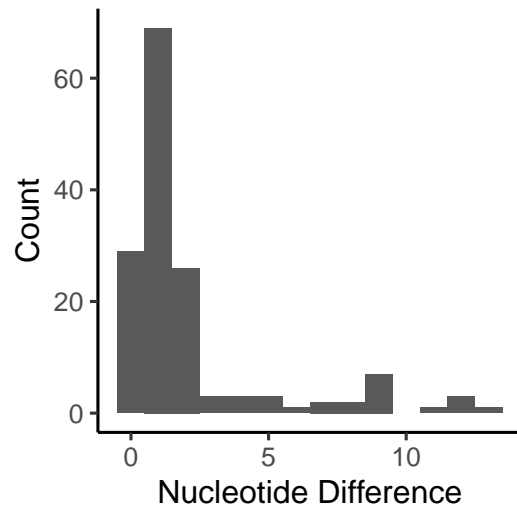
IGHV3-19*01

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



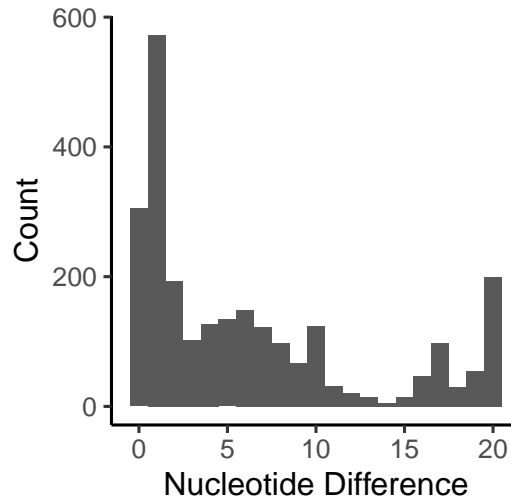
IGHV3-20*01_02

150 sequences assigned
29 (19.3%) exact matches, in which:
14 unique CDR3
3 unique J



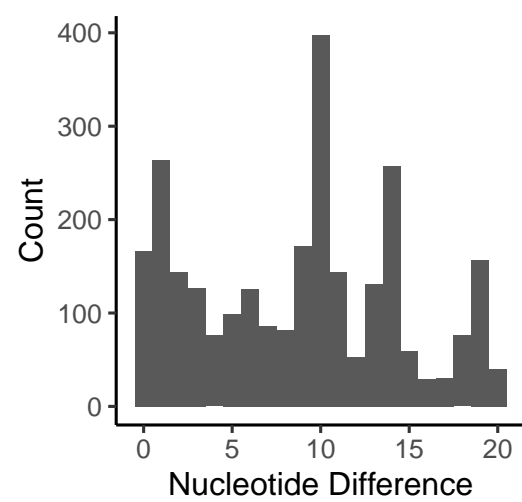
IGHV3-21*01_02

3339 sequences assigned
305 (9.1%) exact matches, in which:
177 unique CDR3
7 unique J



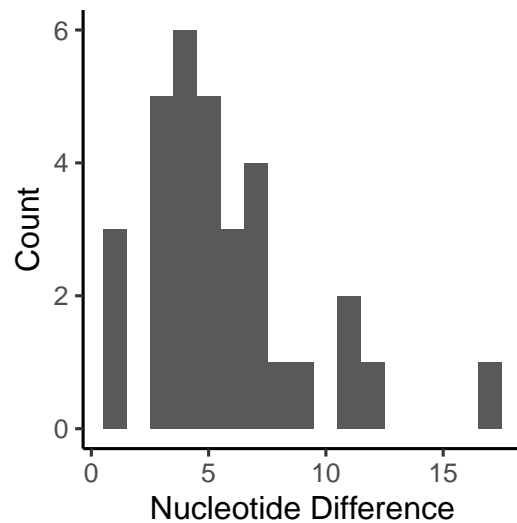
IGHV3-30-3*01

4225 sequences assigned
166 (3.9%) exact matches, in which:
100 unique CDR3
6 unique J



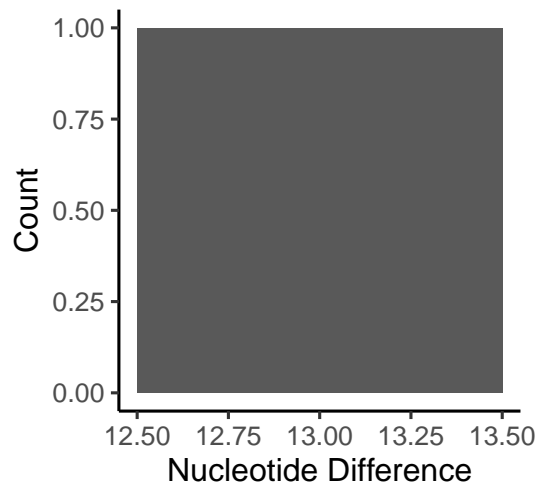
IGHV3-20*03_04

33 sequences assigned
No exact matches.



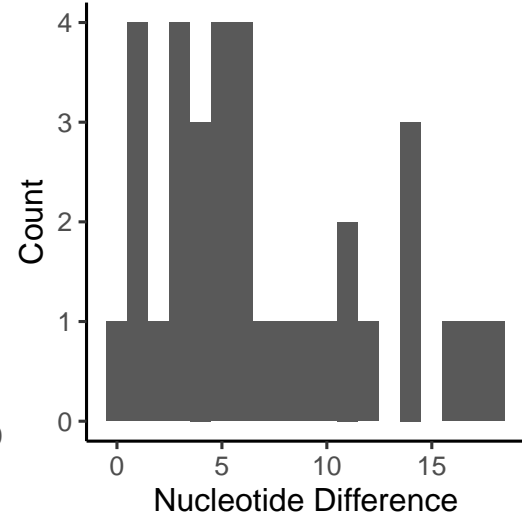
IGHV3-22*01_02

1 sequences assigned
No exact matches.



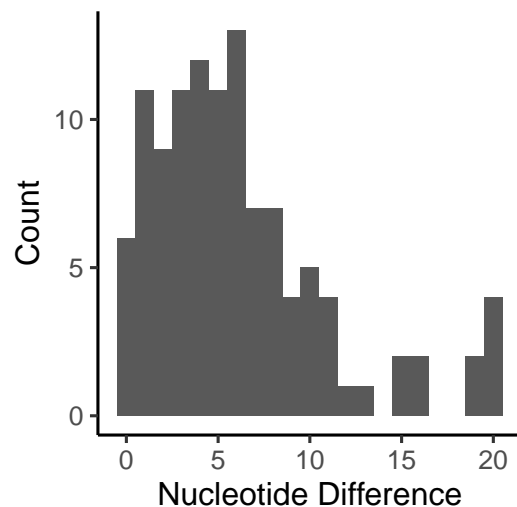
IGHV3-30-3*02

39 sequences assigned
1 (2.6%) exact matches, in which:
1 unique CDR3
1 unique J



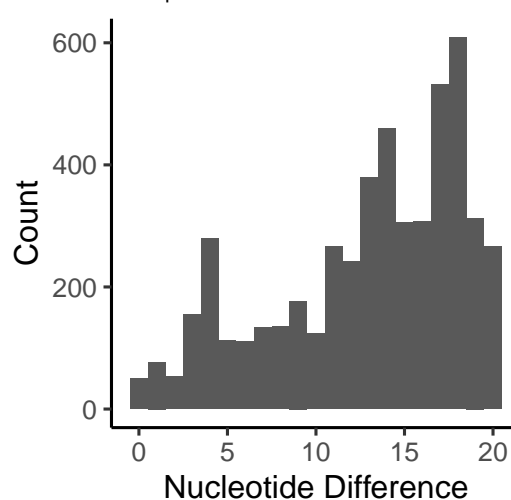
IGHV3-21*04

492 sequences assigned
6 (1.2%) exact matches, in which:
6 unique CDR3
5 unique J



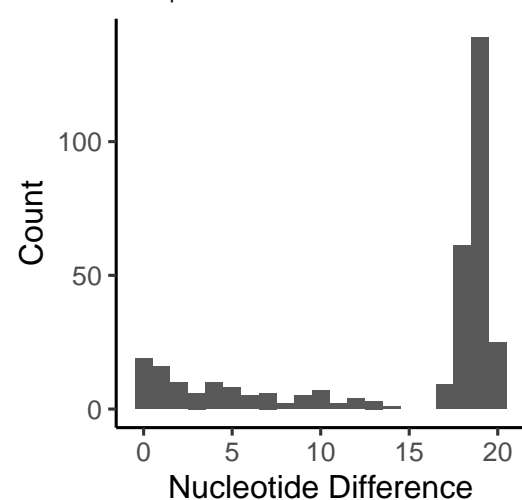
IGHV3-23*01_04

6886 sequences assigned
50 (0.7%) exact matches, in which:
33 unique CDR3
6 unique J



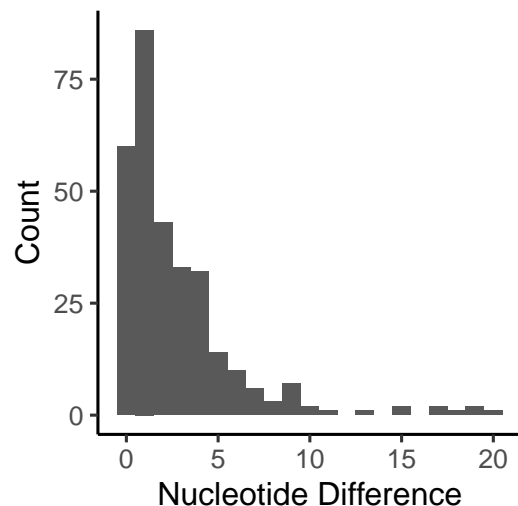
IGHV3-30*03

402 sequences assigned
19 (4.7%) exact matches, in which:
16 unique CDR3
5 unique J



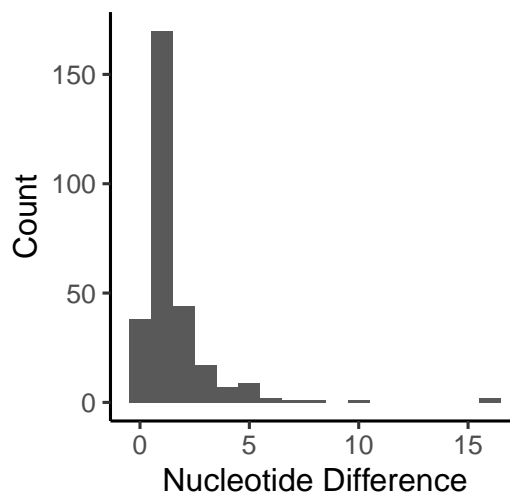
IGHV3-33*01

320 sequences assigned
60 (18.8%) exact matches, in which:
38 unique CDR3
6 unique J



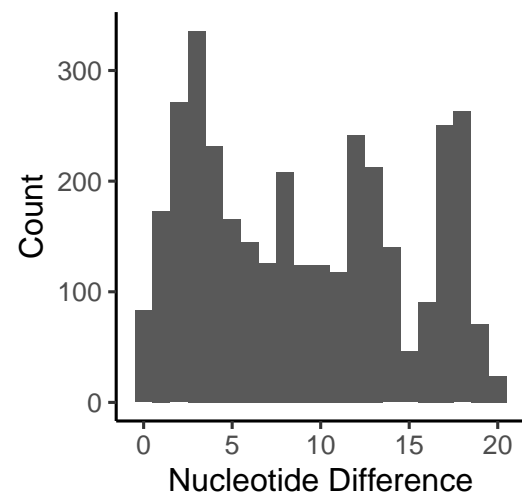
IGHV3-43*01

293 sequences assigned
38 (13%) exact matches, in which:
20 unique CDR3
1 unique J



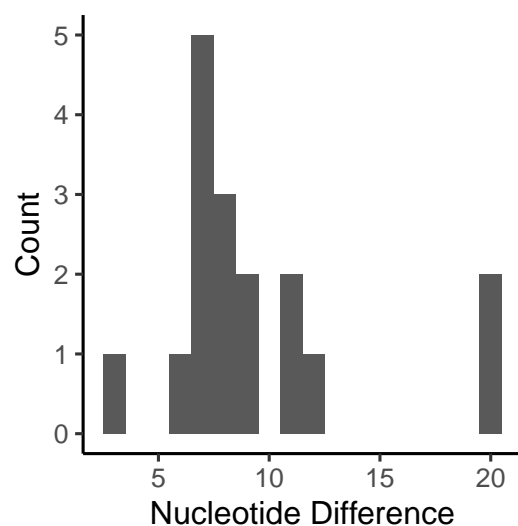
IGHV3-48*02

3974 sequences assigned
83 (2.1%) exact matches, in which:
44 unique CDR3
5 unique J



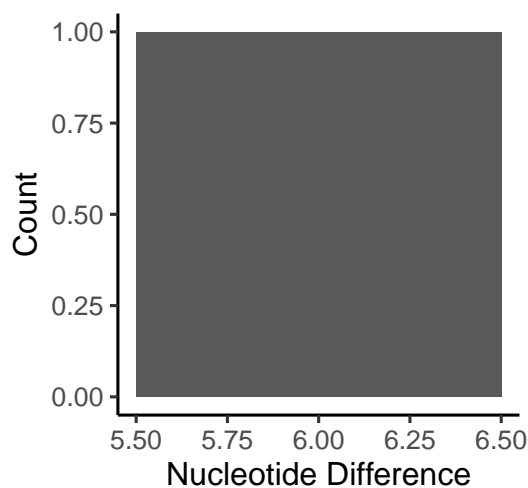
IGHV3-33*05

105 sequences assigned
No exact matches.



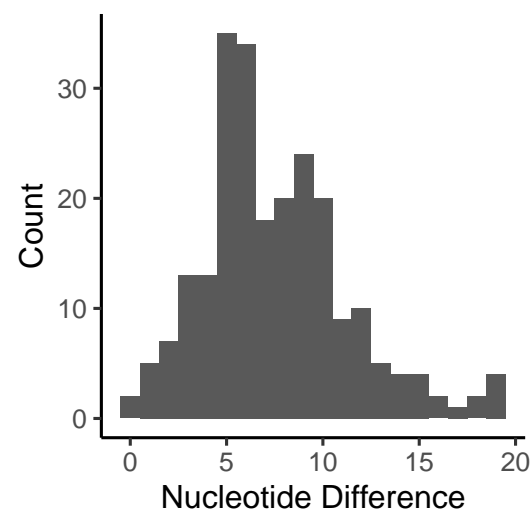
IGHV3-43*02

2 sequences assigned
No exact matches.



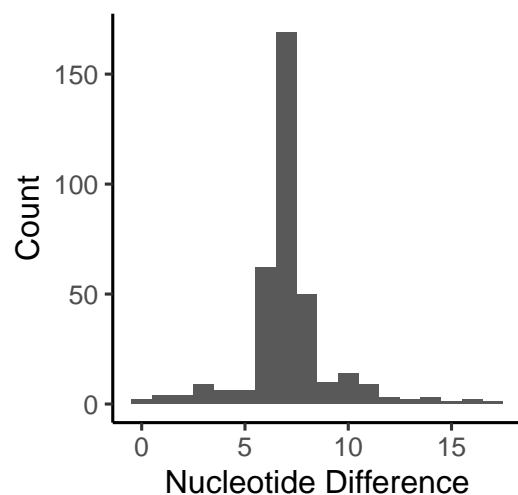
IGHV3-48*04

241 sequences assigned
2 (0.8%) exact matches, in which:
2 unique CDR3
2 unique J



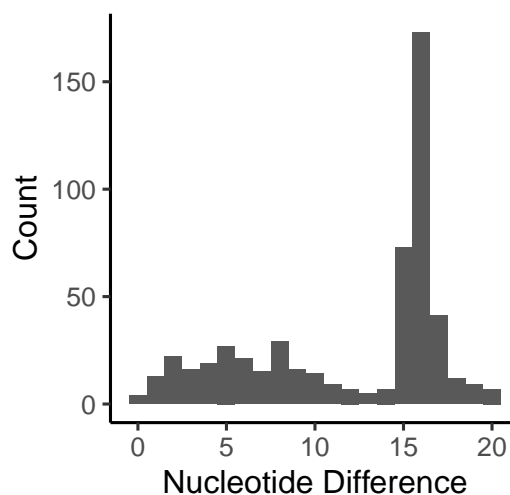
IGHV3-33*06

359 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
2 unique J



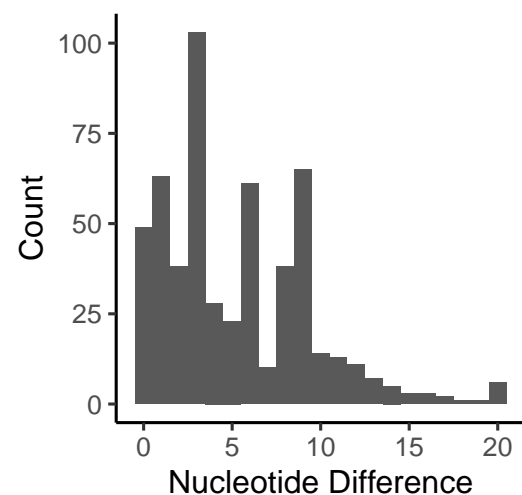
IGHV3-48*01

902 sequences assigned
4 (0.4%) exact matches, in which:
4 unique CDR3
2 unique J



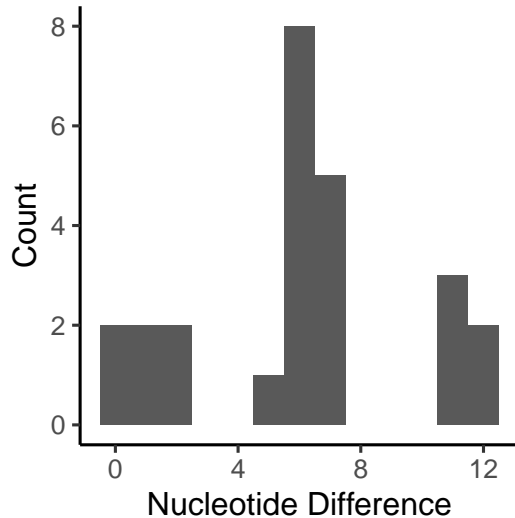
IGHV3-49*04

551 sequences assigned
49 (8.9%) exact matches, in which:
26 unique CDR3
4 unique J



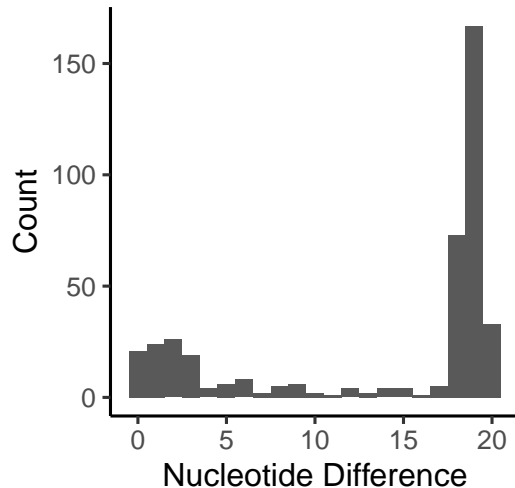
IGHV3-49*03_05

25 sequences assigned
2 (8%) exact matches, in which:
1 unique CDR3
1 unique J



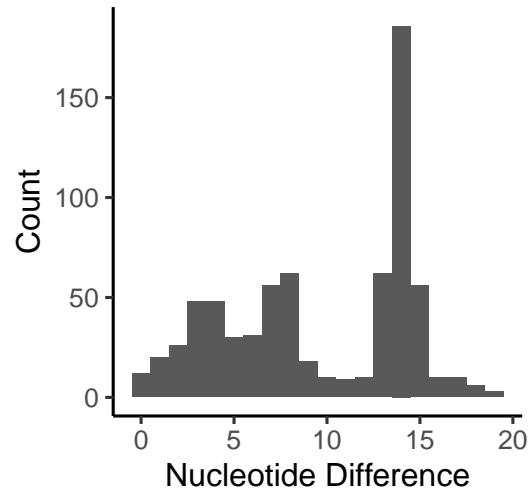
IGHV3-53*01_02

455 sequences assigned
21 (4.6%) exact matches, in which:
11 unique CDR3
3 unique J



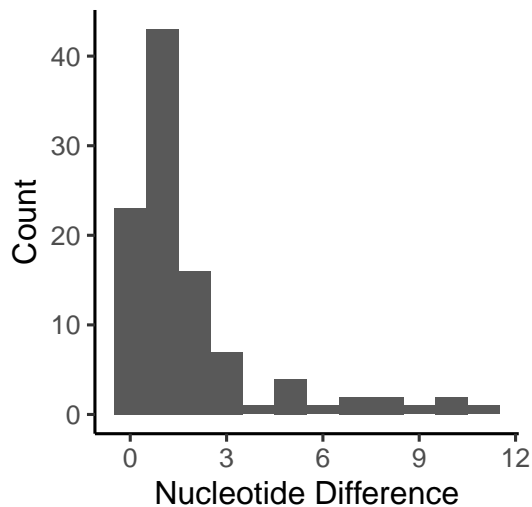
IGHV3-66*01

1750 sequences assigned
12 (0.7%) exact matches, in which:
8 unique CDR3
3 unique J



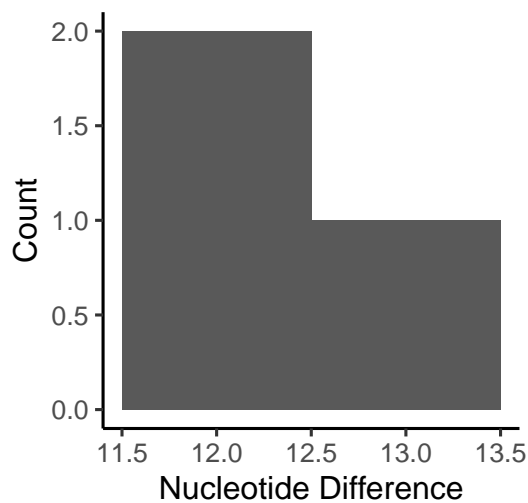
IGHV3-53*04

103 sequences assigned
23 (22.3%) exact matches, in which:
16 unique CDR3
3 unique J



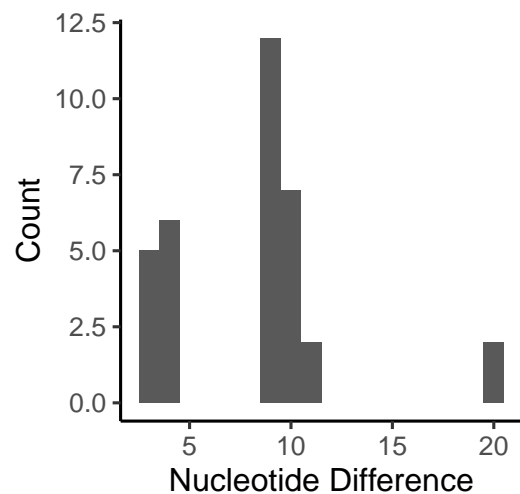
IGHV3-62*04

3 sequences assigned
No exact matches.



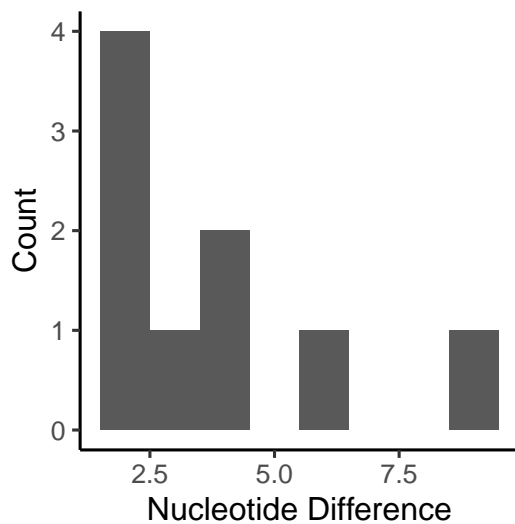
IGHV3-69-1*01

35 sequences assigned
No exact matches.



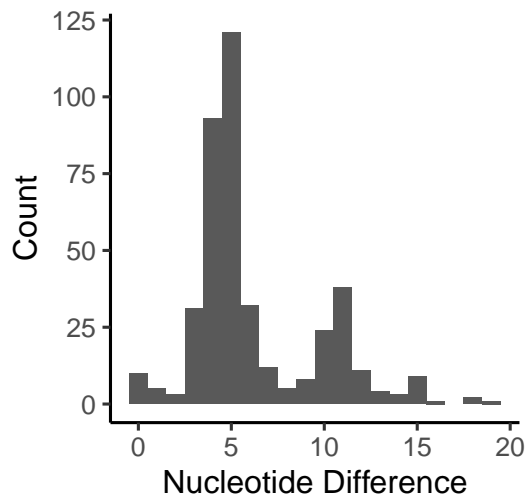
IGHV3-53*05

11 sequences assigned
No exact matches.



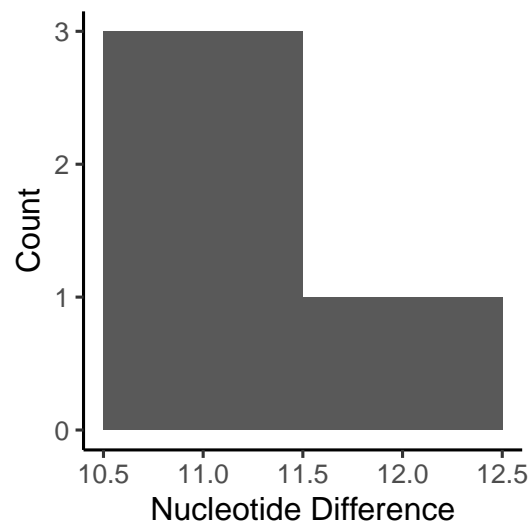
IGHV3-64*01

413 sequences assigned
10 (2.4%) exact matches, in which:
5 unique CDR3
2 unique J



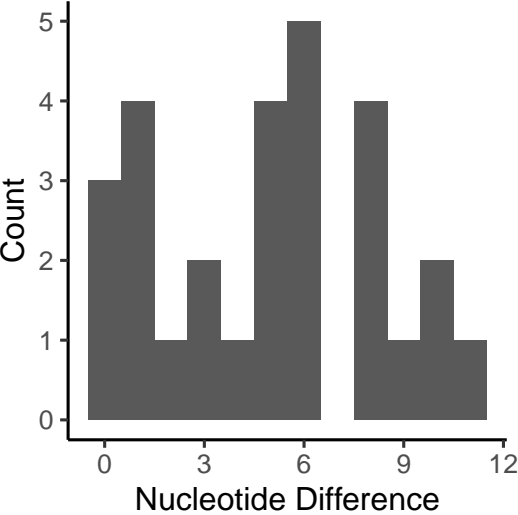
IGHV3-71*03

4 sequences assigned
No exact matches.



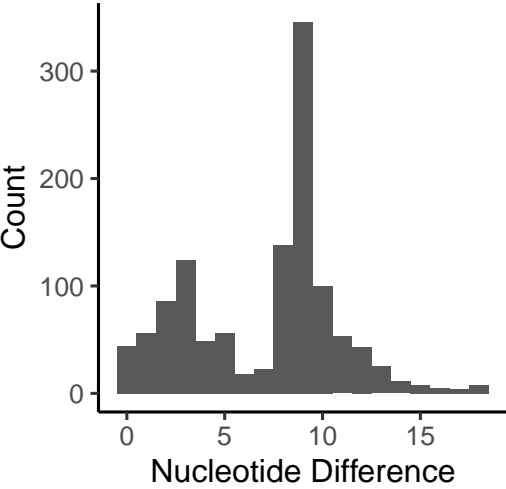
IGHV3-72*01

94 sequences assigned
3 (3.2%) exact matches, in which:
1 unique CDR3
1 unique J



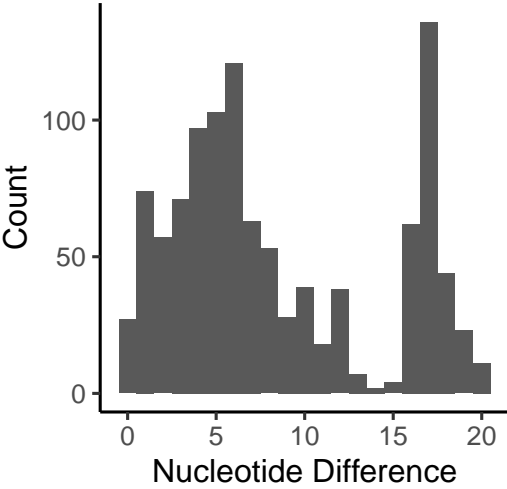
IGHV3-74*01_02

1214 sequences assigned
44 (3.6%) exact matches, in which:
27 unique CDR3
5 unique J



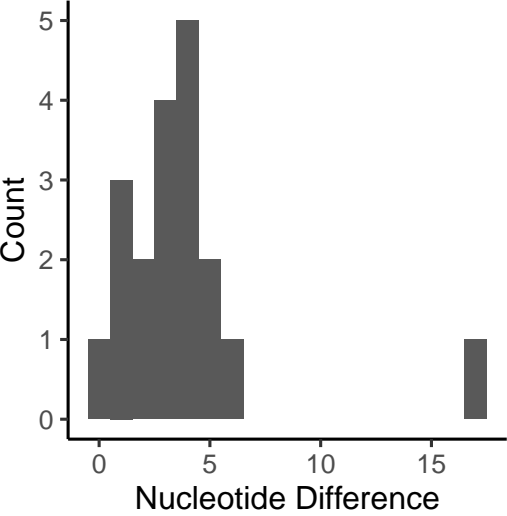
IGHV4-4*07

1142 sequences assigned
27 (2.4%) exact matches, in which:
22 unique CDR3
3 unique J



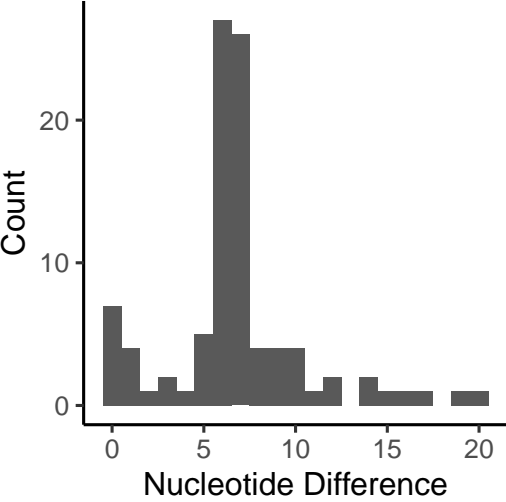
IGHV3-73*01_02

146 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



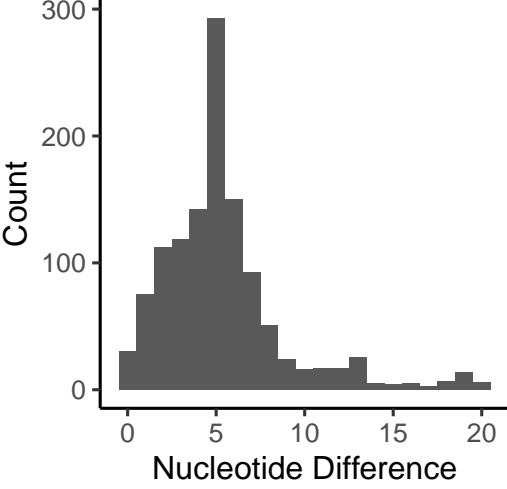
IGHV3-43D*03

196 sequences assigned
7 (3.6%) exact matches, in which:
5 unique CDR3
2 unique J



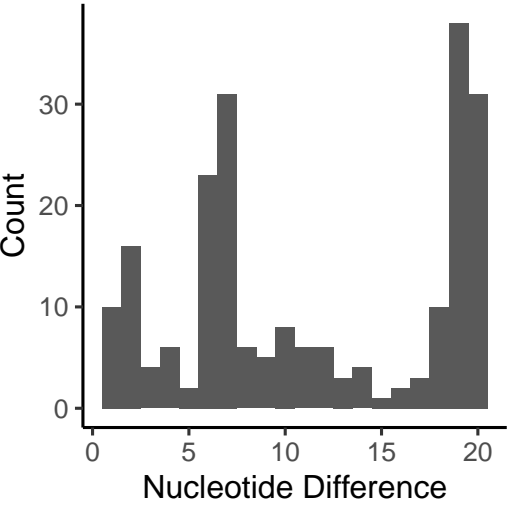
IGHV4-4*02_03

1270 sequences assigned
30 (2.4%) exact matches, in which:
21 unique CDR3
4 unique J



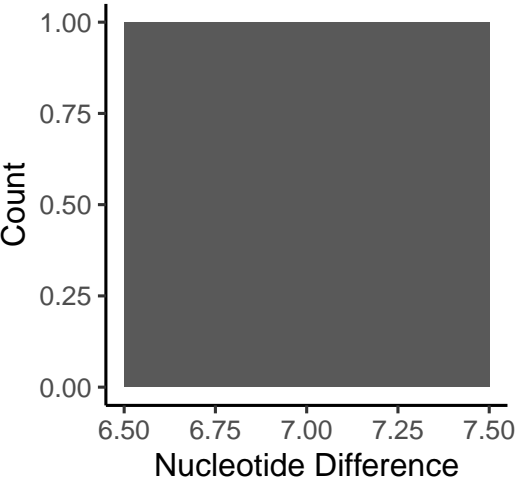
IGHV3-74*03

1152 sequences assigned
No exact matches.



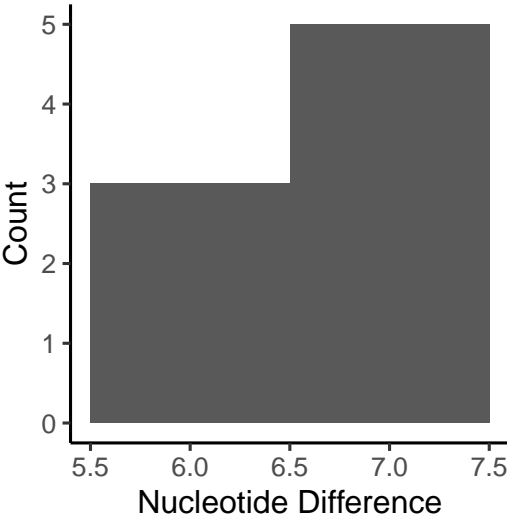
IGHV3-NL1*01

2 sequences assigned
No exact matches.



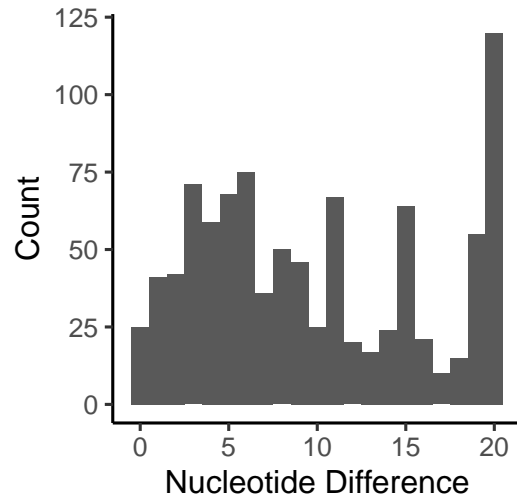
IGHV4-28*03

8 sequences assigned
No exact matches.



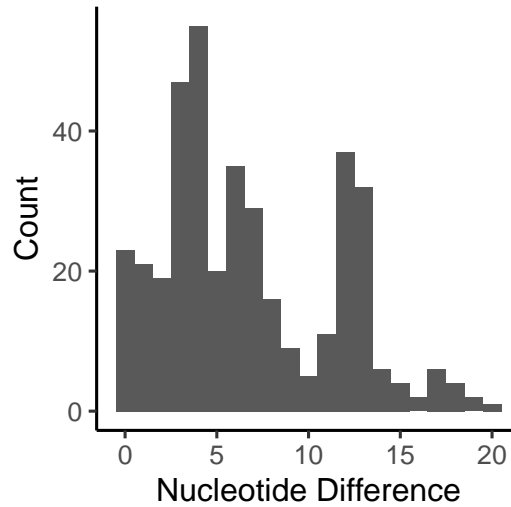
IGHV4-30-4*01

1237 sequences assigned
25 (2%) exact matches, in which:
19 unique CDR3
5 unique J



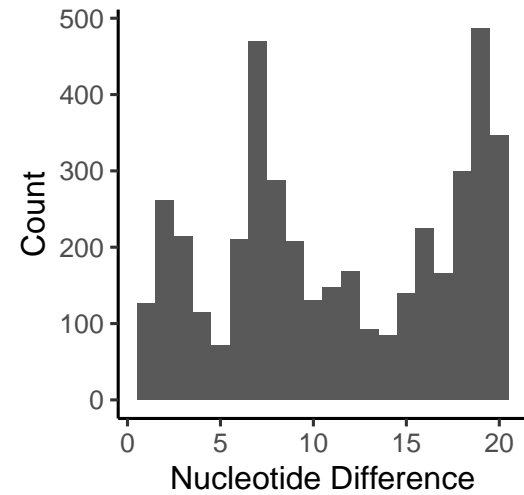
IGHV4-31*02

416 sequences assigned
23 (5.5%) exact matches, in which:
17 unique CDR3
4 unique J



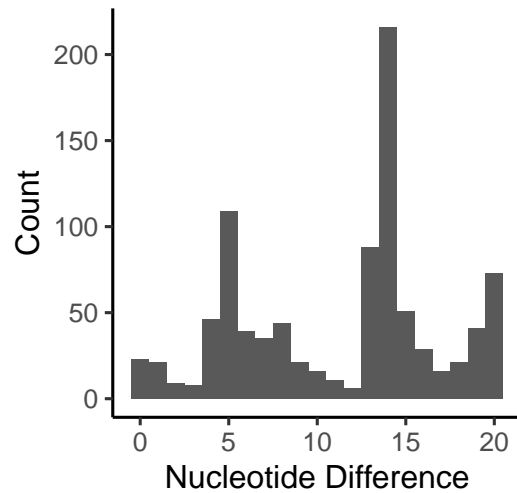
IGHV4-39*02

5209 sequences assigned
No exact matches.



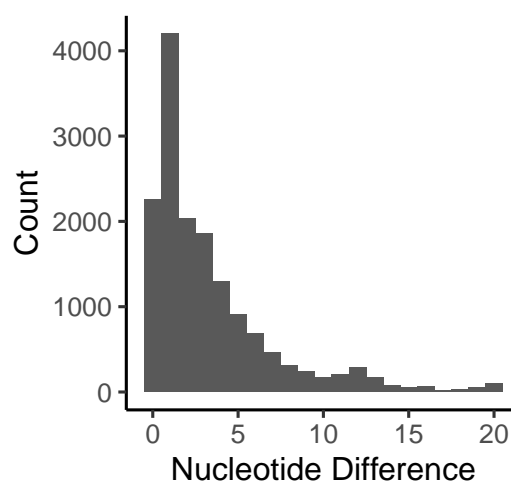
IGHV4-30-2*01

1130 sequences assigned
23 (2%) exact matches, in which:
17 unique CDR3
3 unique J



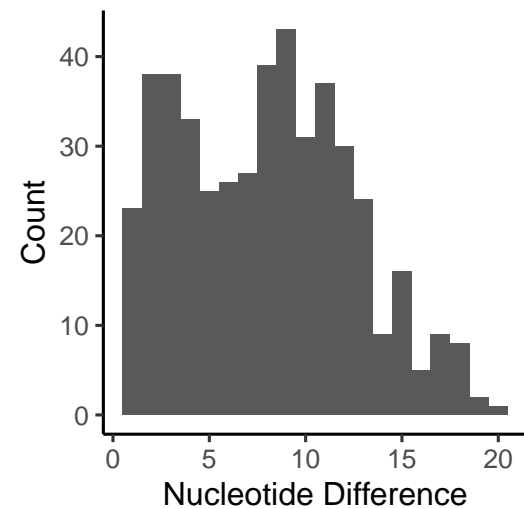
IGHV4-34*01_02

15862 sequences assigned
2261 (14.3%) exact matches, in which:
1395 unique CDR3
7 unique J



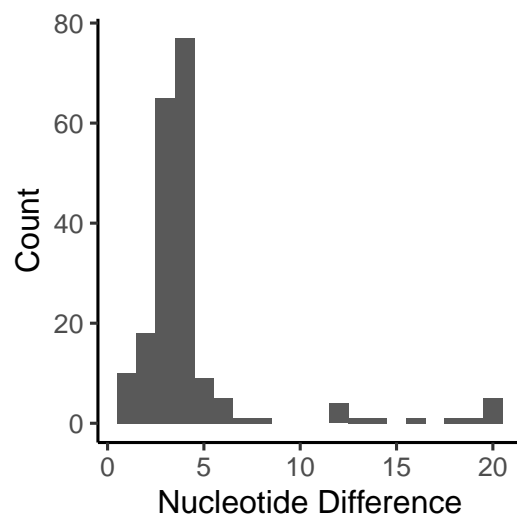
IGHV4-39*07

478 sequences assigned
No exact matches.



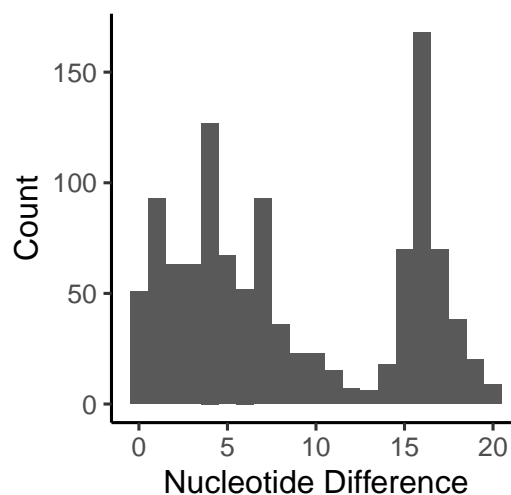
IGHV4-30-2*03

201 sequences assigned
No exact matches.



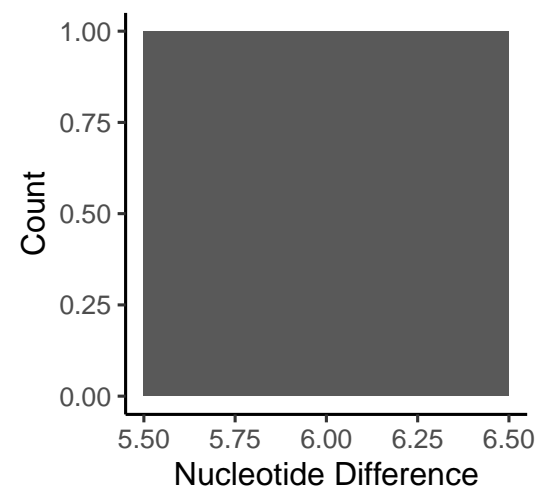
IGHV4-38-2*02

2503 sequences assigned
51 (2%) exact matches, in which:
35 unique CDR3
4 unique J



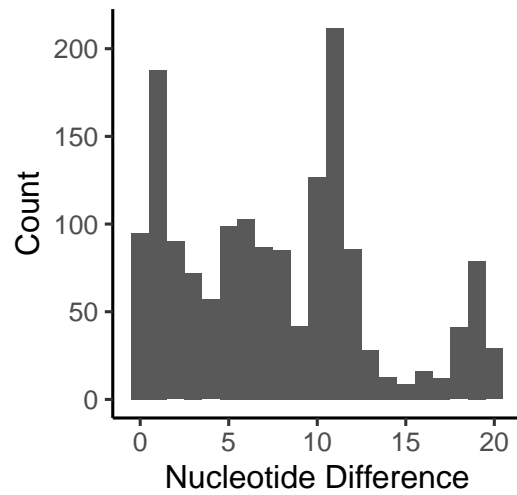
IGHV4-55*09

1 sequences assigned
No exact matches.



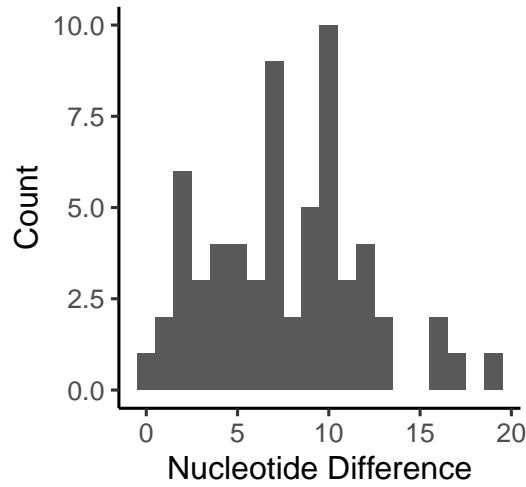
IGHV4–59*08

1832 sequences assigned
95 (5.2%) exact matches, in which:
72 unique CDR3
5 unique J



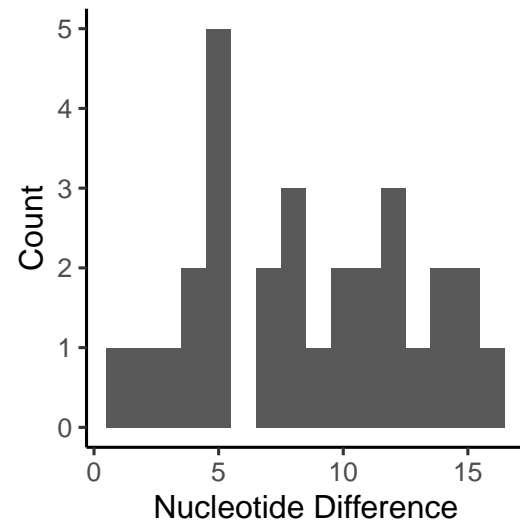
IGHV4–61*01

188 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



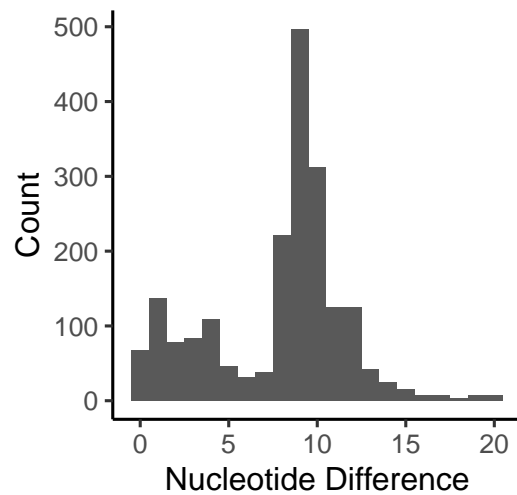
IGHV4–61*08

38 sequences assigned
No exact matches.



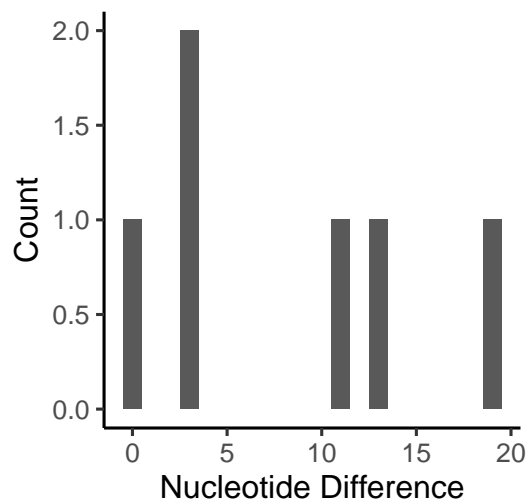
IGHV4–59*01_07

2586 sequences assigned
67 (2.6%) exact matches, in which:
49 unique CDR3
7 unique J



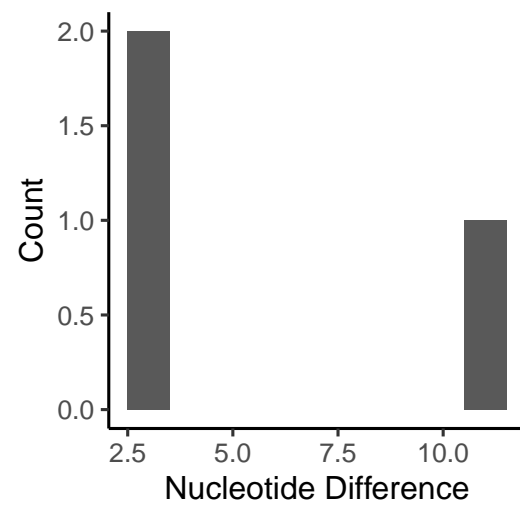
IGHV4–61*02

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



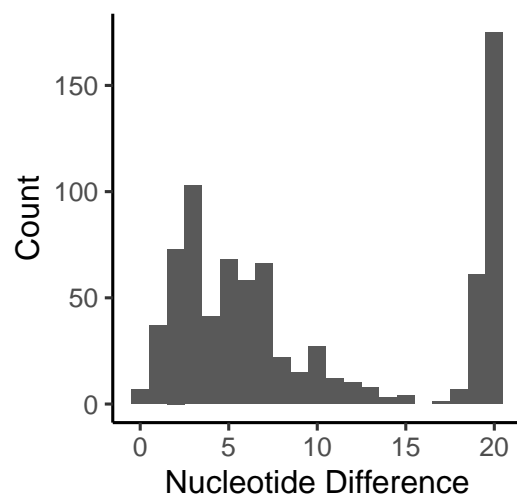
IGHV4/OR15–8*01

3 sequences assigned
No exact matches.



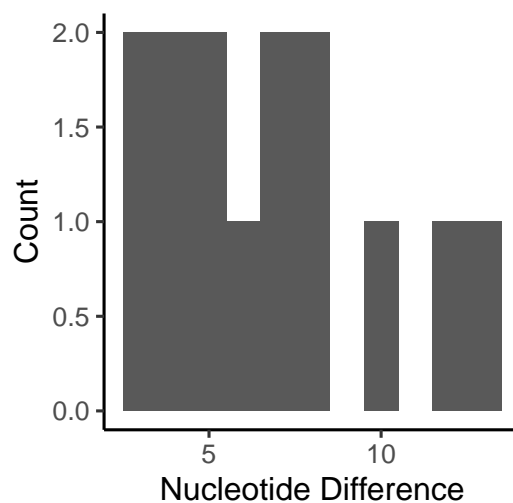
IGHV4–59*12

1020 sequences assigned
7 (0.7%) exact matches, in which:
6 unique CDR3
4 unique J



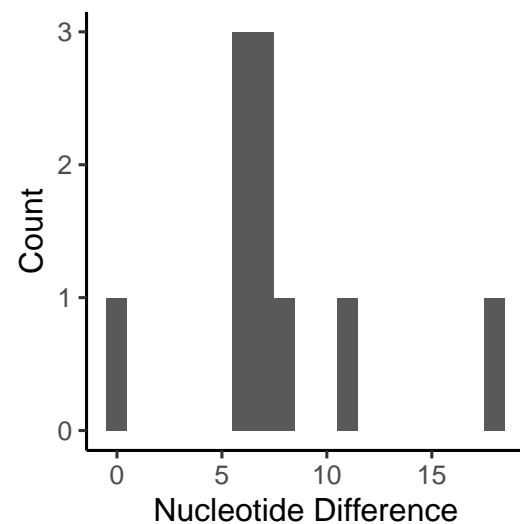
IGHV4–61*05

14 sequences assigned
No exact matches.



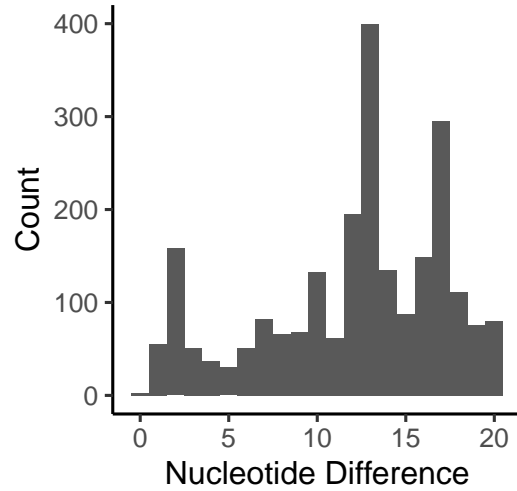
IGHV5–10–1*01_03

13 sequences assigned
1 (7.7%) exact matches, in which:
1 unique CDR3
1 unique J



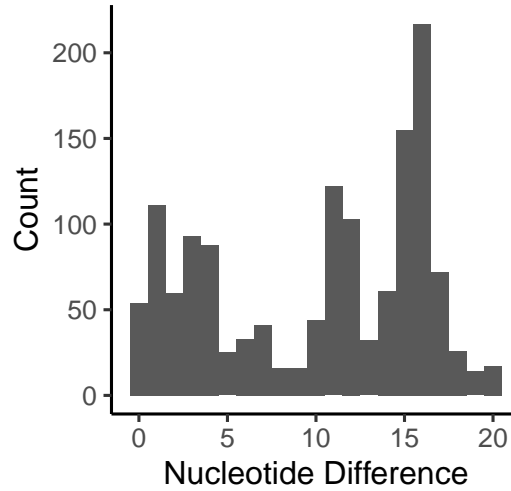
IGHV5-51*07

2416 sequences assigned
3 (0.1%) exact matches, in which:
2 unique CDR3
2 unique J



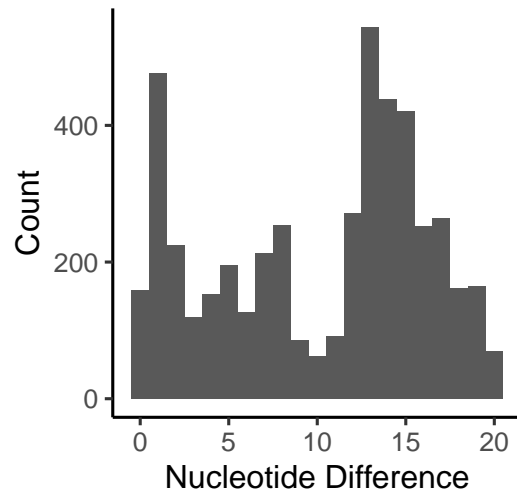
IGHV7-4-1*02

1581 sequences assigned
54 (3.4%) exact matches, in which:
36 unique CDR3
4 unique J



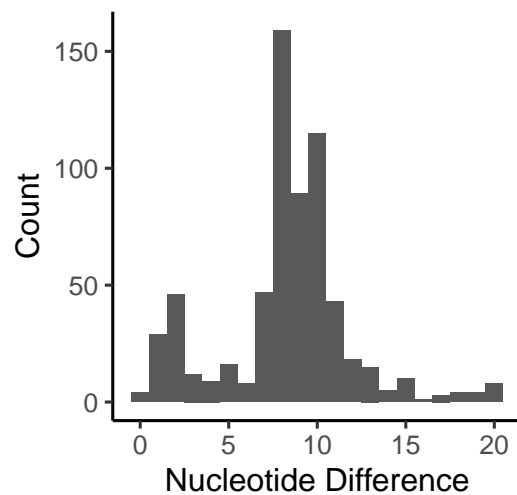
IGHV5-51*01_03

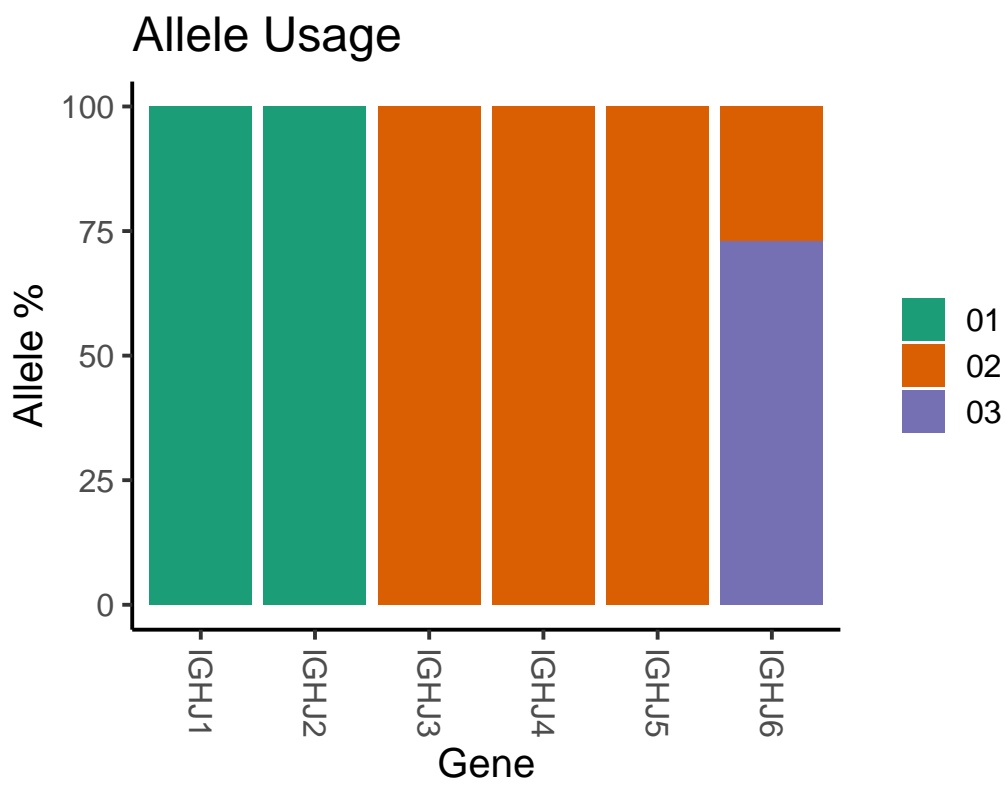
5569 sequences assigned
159 (2.9%) exact matches, in which:
76 unique CDR3
5 unique J



IGHV6-1*01_02

845 sequences assigned
4 (0.5%) exact matches, in which:
3 unique CDR3
2 unique J





Sequence Count by IGHJ6 allele usage

