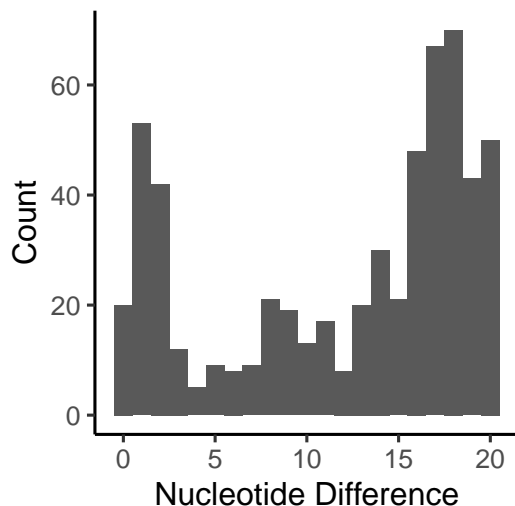


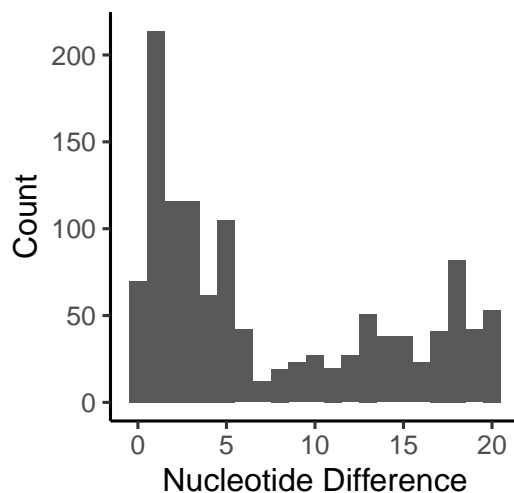
IGHV1-2*02

915 sequences assigned
20 (2.2%) exact matches, in which:
14 unique CDR3
4 unique J



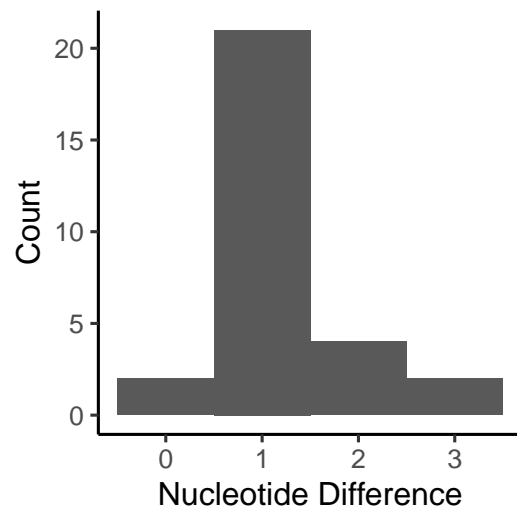
IGHV1-18*01

1893 sequences assigned
70 (3.7%) exact matches, in which:
35 unique CDR3
4 unique J



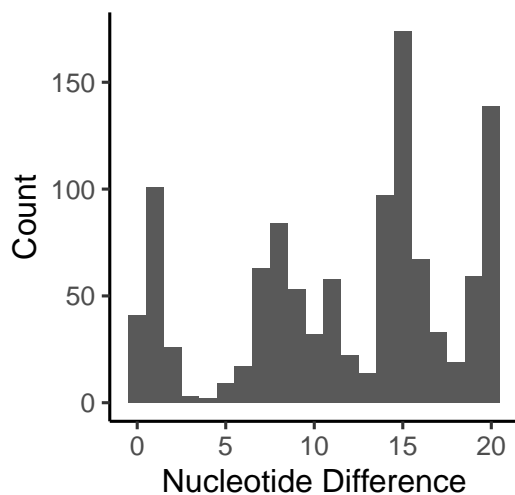
IGHV1-58*01

48 sequences assigned
2 (4.2%) exact matches, in which:
1 unique CDR3
1 unique J



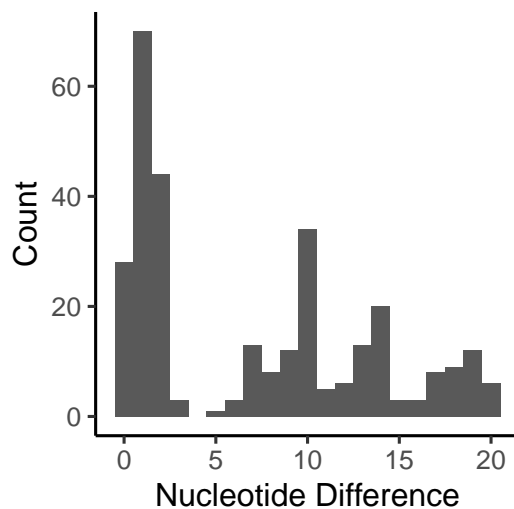
IGHV1-3*01

1601 sequences assigned
41 (2.6%) exact matches, in which:
19 unique CDR3
4 unique J



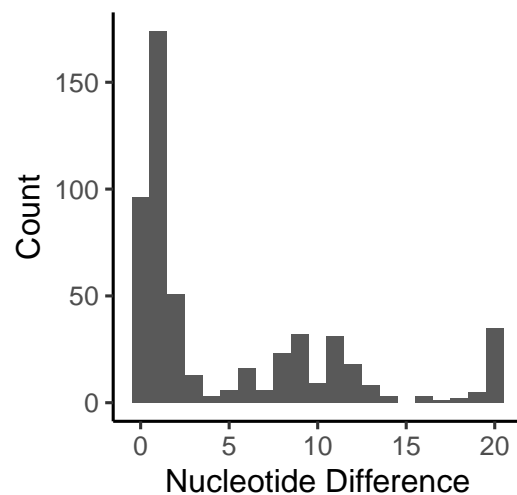
IGHV1-24*01

466 sequences assigned
28 (6%) exact matches, in which:
13 unique CDR3
3 unique J



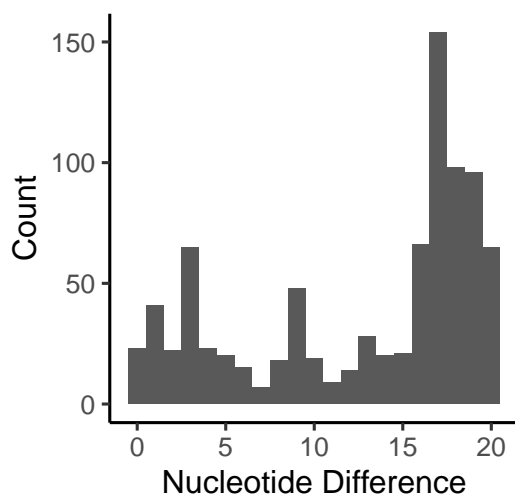
IGHV1-69*01

1184 sequences assigned
96 (8.1%) exact matches, in which:
58 unique CDR3
3 unique J



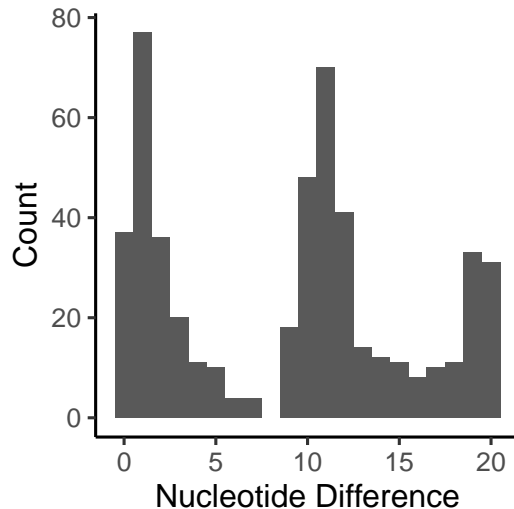
IGHV1-8*01

1116 sequences assigned
23 (2.1%) exact matches, in which:
16 unique CDR3
3 unique J



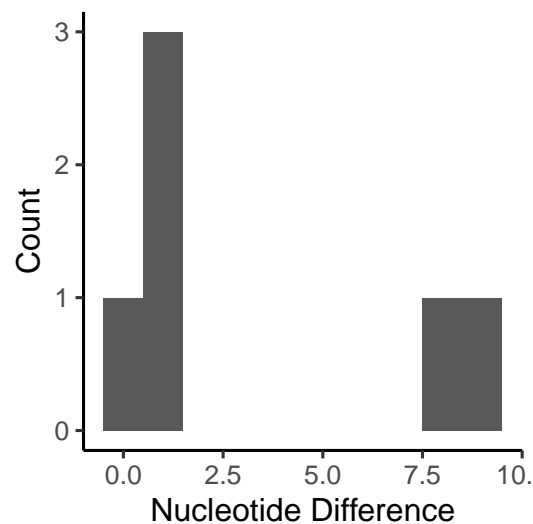
IGHV1-46*01

849 sequences assigned
37 (4.4%) exact matches, in which:
21 unique CDR3
3 unique J



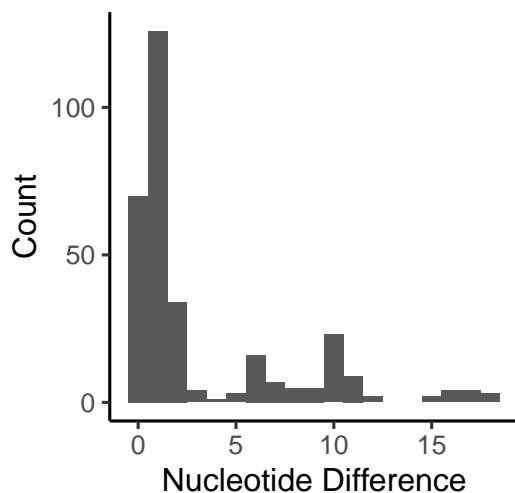
IGHV1-69-2*01

59 sequences assigned
1 (1.7%) exact matches, in which:
1 unique CDR3
1 unique J



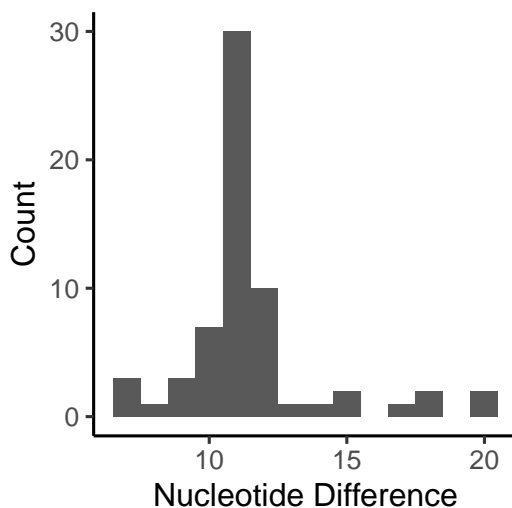
IGHV1-69*06

718 sequences assigned
70 (9.7%) exact matches, in which:
44 unique CDR3
3 unique J



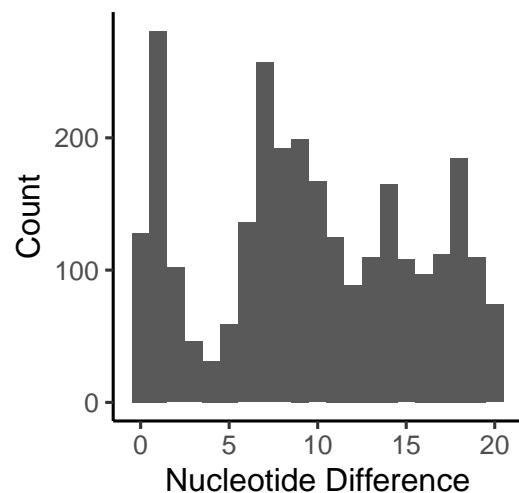
IGHV2-26*01

104 sequences assigned
No exact matches.



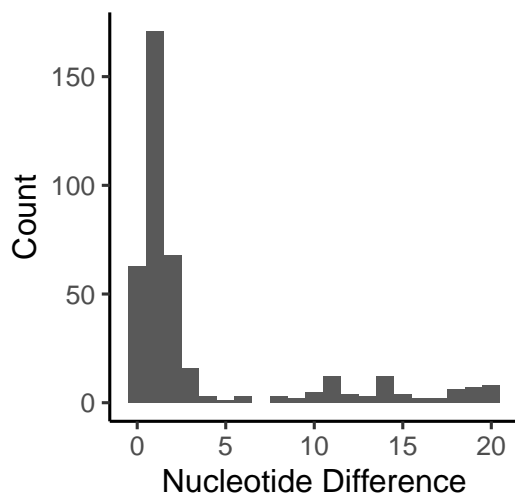
IGHV3-7*01

3678 sequences assigned
128 (3.5%) exact matches, in which:
82 unique CDR3
5 unique J



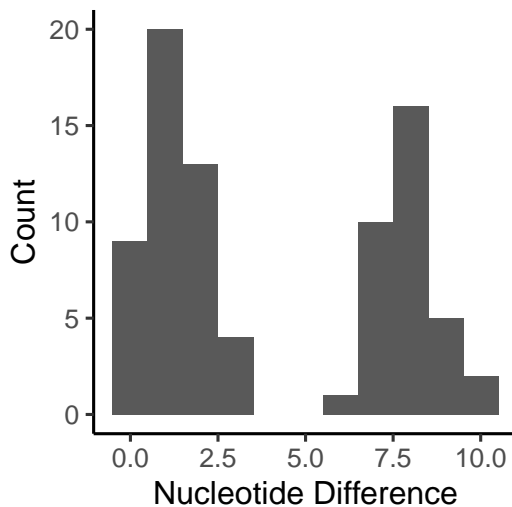
IGHV2-5*01

603 sequences assigned
63 (10.4%) exact matches, in which:
34 unique CDR3
3 unique J



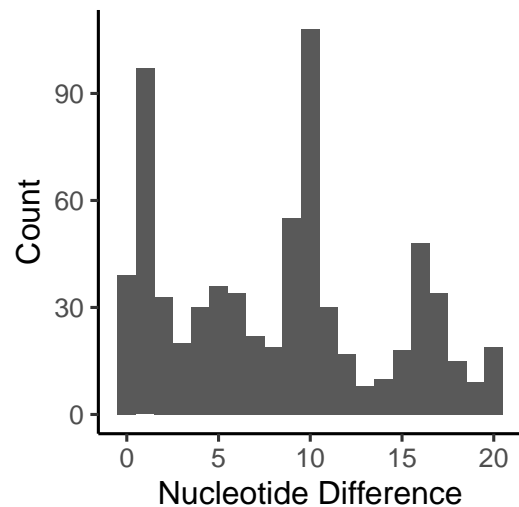
IGHV2-70*01

80 sequences assigned
9 (11.2%) exact matches, in which:
5 unique CDR3
2 unique J



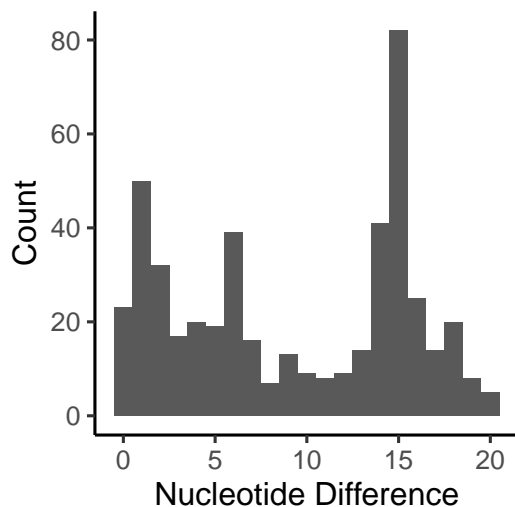
IGHV3-9*01

791 sequences assigned
39 (4.9%) exact matches, in which:
29 unique CDR3
3 unique J



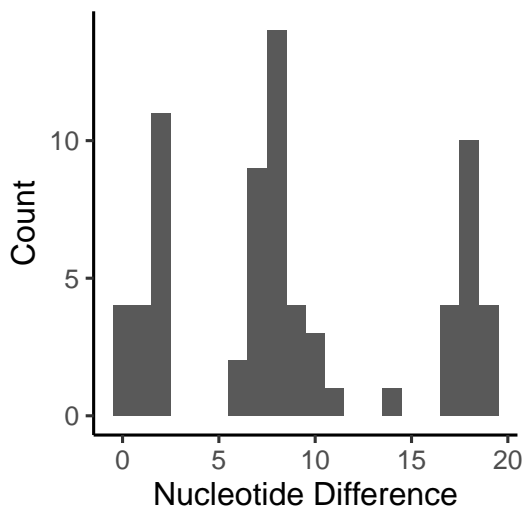
IGHV2-5*02

701 sequences assigned
23 (3.3%) exact matches, in which:
17 unique CDR3
4 unique J



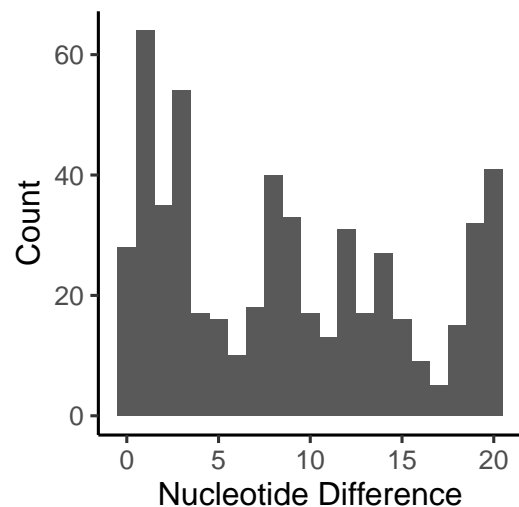
IGHV2-70*04

71 sequences assigned
4 (5.6%) exact matches, in which:
2 unique CDR3
2 unique J



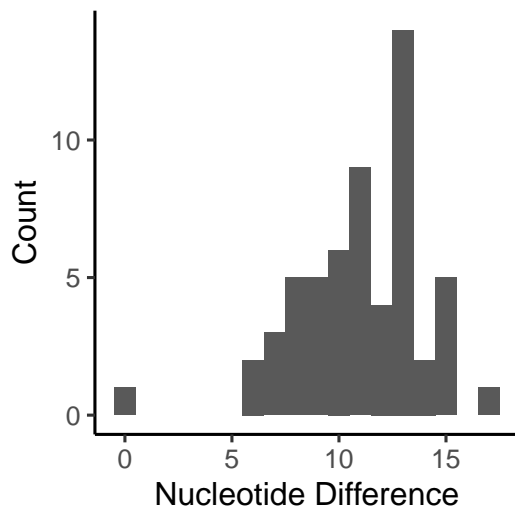
IGHV3-11*01

936 sequences assigned
28 (3%) exact matches, in which:
19 unique CDR3
2 unique J



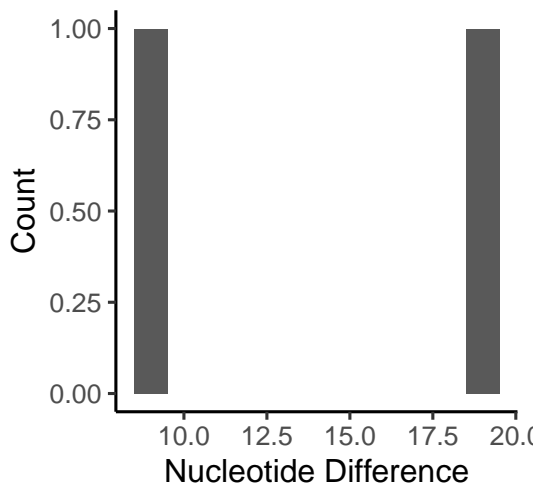
IGHV3-13*01

57 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



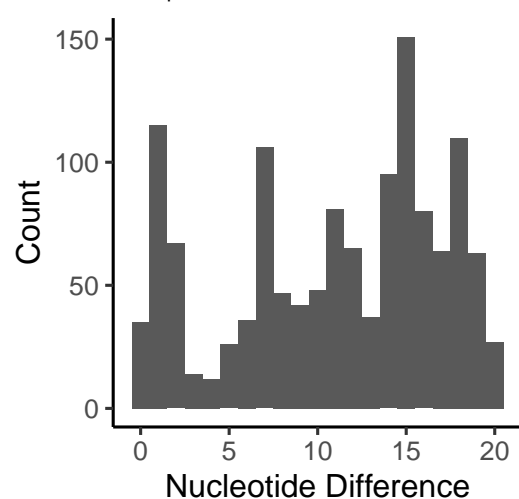
IGHV3-20*04

4 sequences assigned
No exact matches.



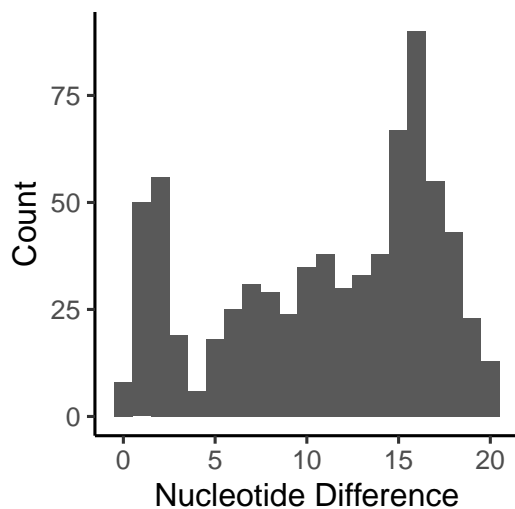
IGHV3-23*04

1885 sequences assigned
35 (1.9%) exact matches, in which:
20 unique CDR3
4 unique J



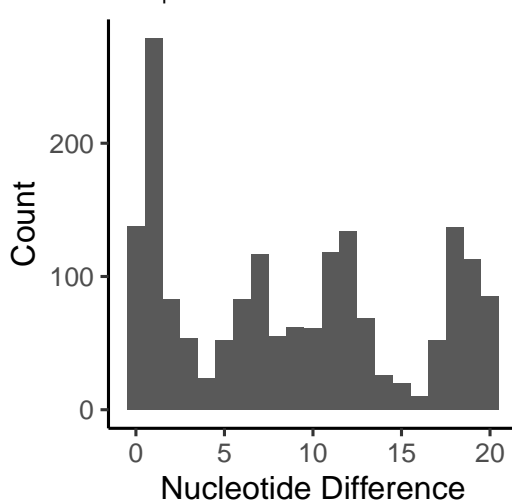
IGHV3-15*01

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



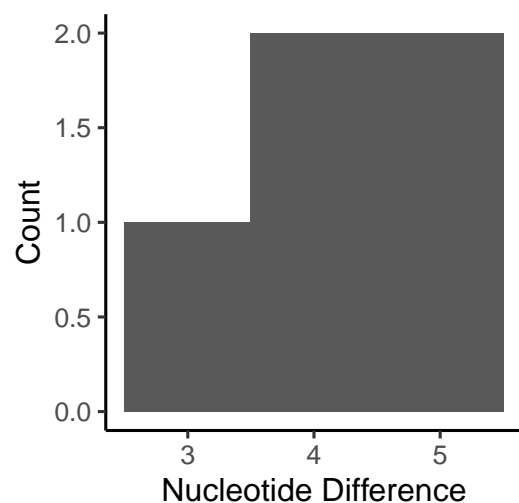
IGHV3-21*01

2172 sequences assigned
138 (6.4%) exact matches, in which:
91 unique CDR3
4 unique J



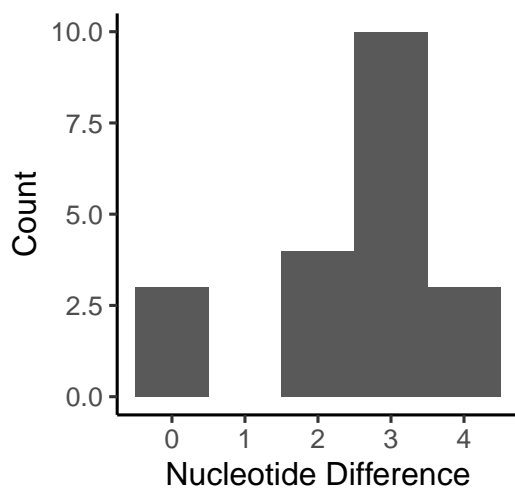
IGHV3-30-3*01

5 sequences assigned
No exact matches.



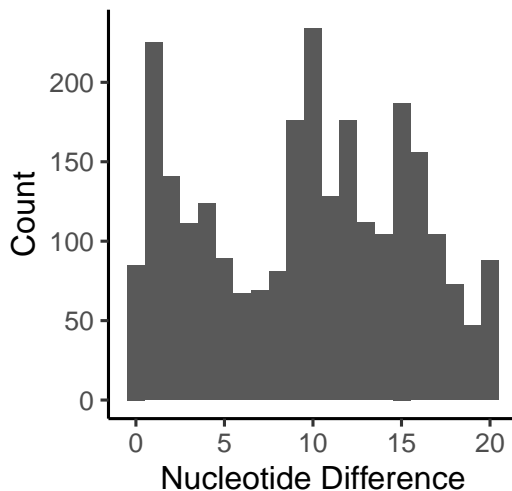
IGHV3-20*01

20 sequences assigned
3 (15%) exact matches, in which:
2 unique CDR3
2 unique J



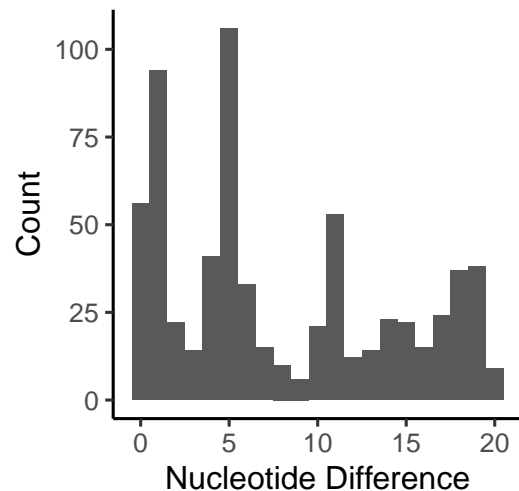
IGHV3-23*01

3635 sequences assigned
85 (2.3%) exact matches, in which:
53 unique CDR3
3 unique J



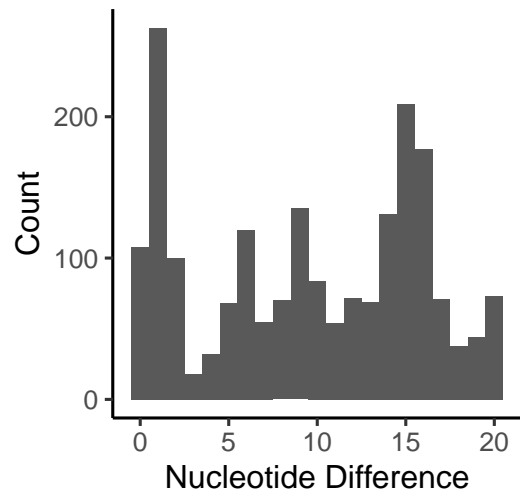
IGHV3-30*18

863 sequences assigned
56 (6.5%) exact matches, in which:
32 unique CDR3
2 unique J



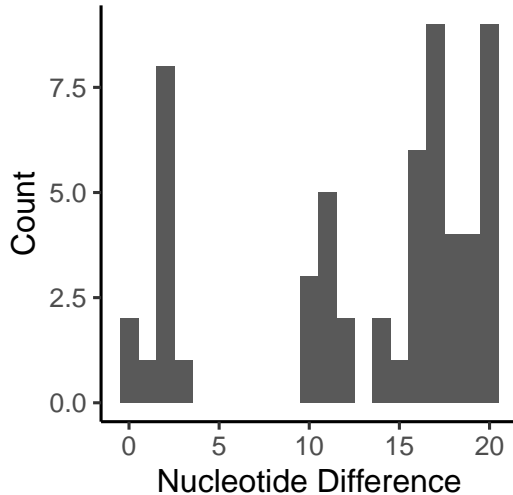
IGHV3-33*01

2856 sequences assigned
108 (3.8%) exact matches, in which:
63 unique CDR3
4 unique J



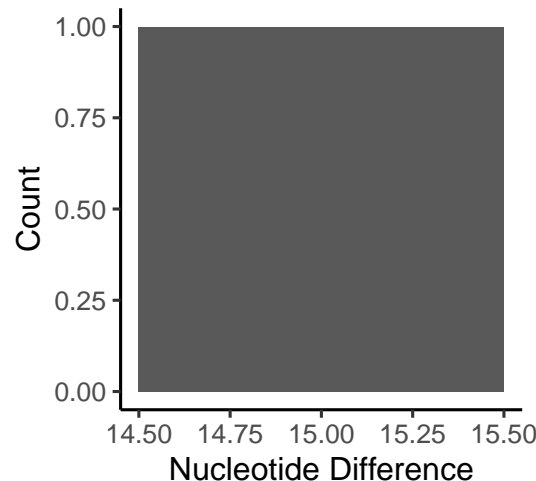
IGHV3-49*05

108 sequences assigned
2 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



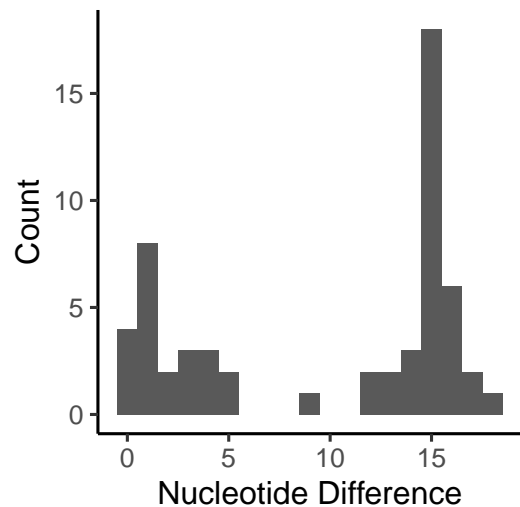
IGHV3-66*03

1 sequences assigned
No exact matches.



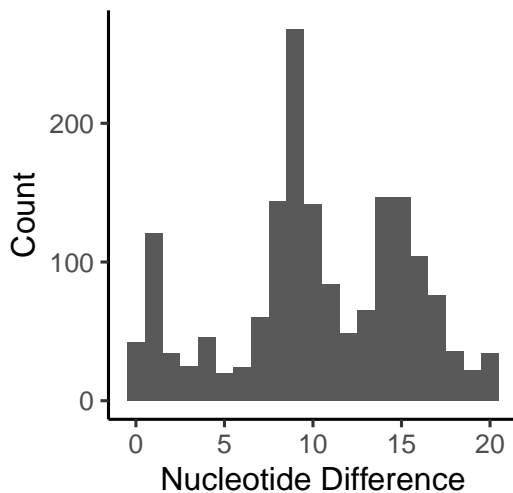
IGHV3-43*01

78 sequences assigned
4 (5.1%) exact matches, in which:
4 unique CDR3
1 unique J



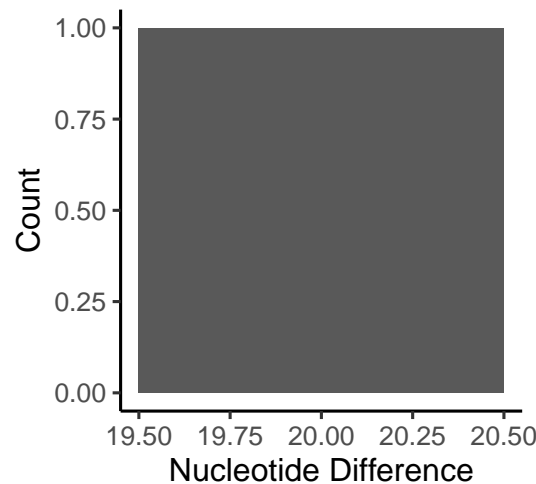
IGHV3-53*01

2422 sequences assigned
42 (1.7%) exact matches, in which:
26 unique CDR3
5 unique J



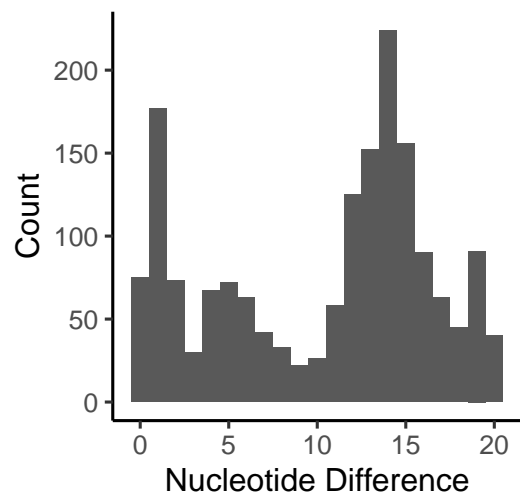
IGHV3-66*04

1 sequences assigned
No exact matches.



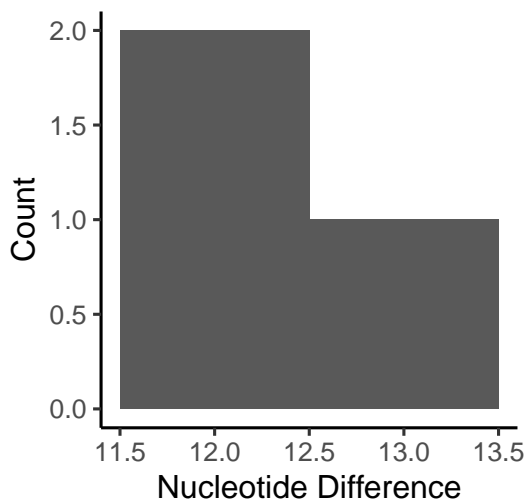
IGHV3-48*02

2087 sequences assigned
75 (3.6%) exact matches, in which:
37 unique CDR3
3 unique J



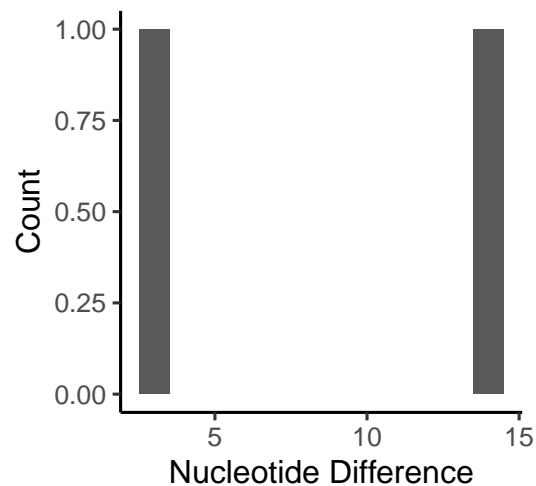
IGHV3-64*02

3 sequences assigned
No exact matches.



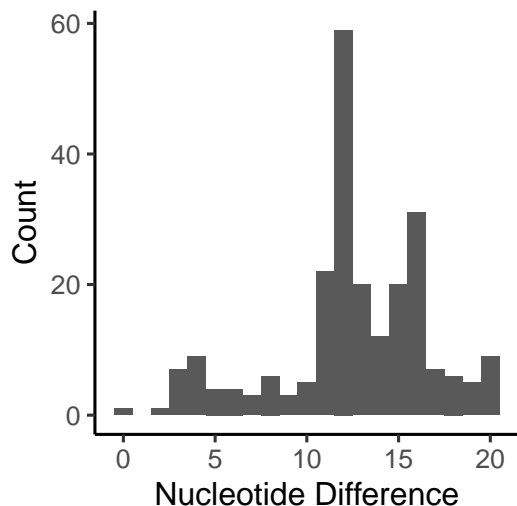
IGHV3-69-1*01

2 sequences assigned
No exact matches.



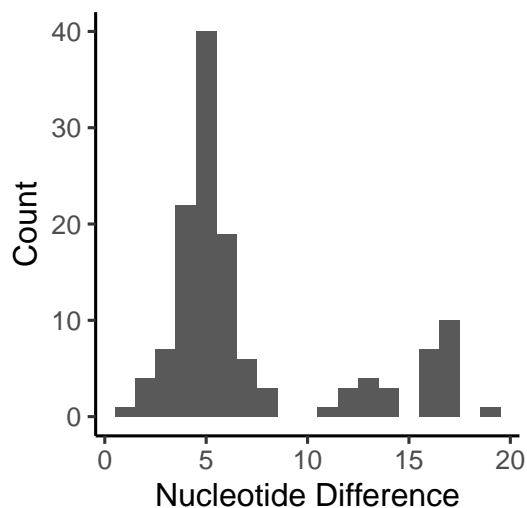
IGHV3-72*01

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



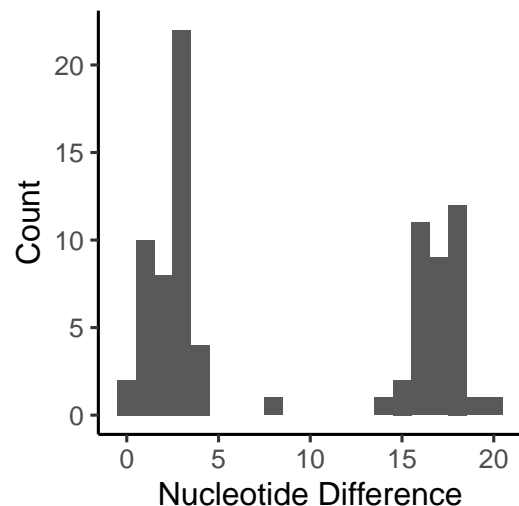
IGHV4-4*02

219 sequences assigned
No exact matches.



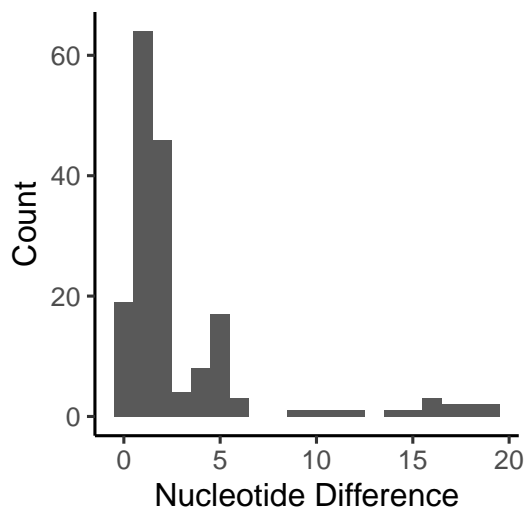
IGHV4-30-2*01

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



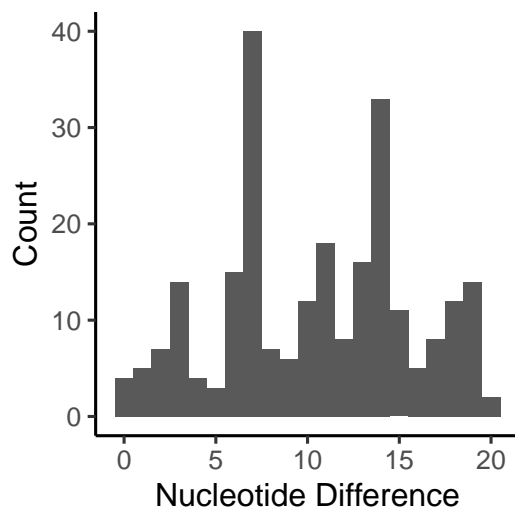
IGHV3-73*02

188 sequences assigned
19 (10.1%) exact matches, in which:
13 unique CDR3
2 unique J



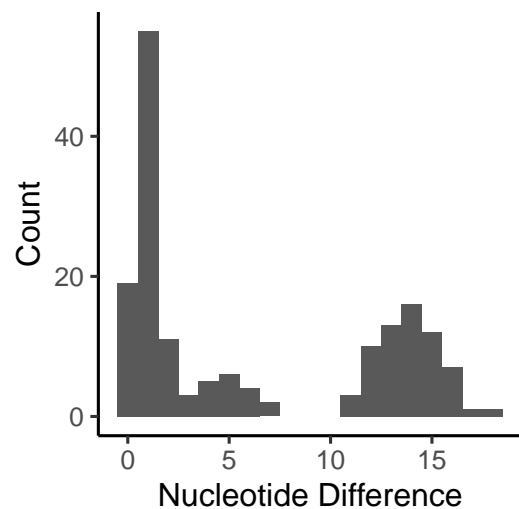
IGHV4-4*07

296 sequences assigned
4 (1.4%) exact matches, in which:
4 unique CDR3
1 unique J



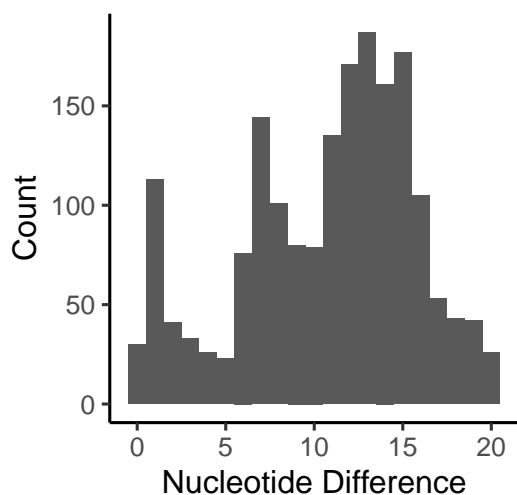
IGHV4-31*03

225 sequences assigned
19 (8.4%) exact matches, in which:
10 unique CDR3
3 unique J



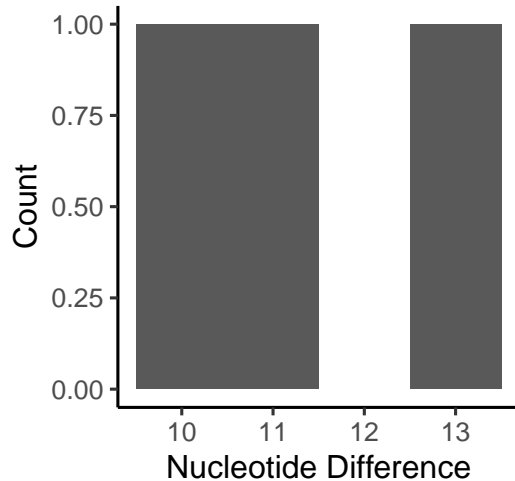
IGHV3-74*01

2044 sequences assigned
30 (1.5%) exact matches, in which:
19 unique CDR3
3 unique J



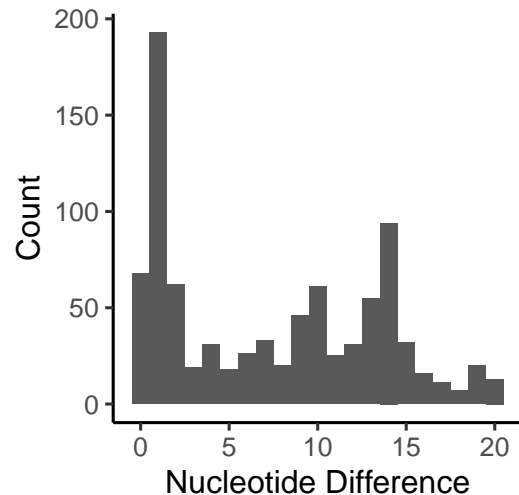
IGHV4-28*01

3 sequences assigned
No exact matches.



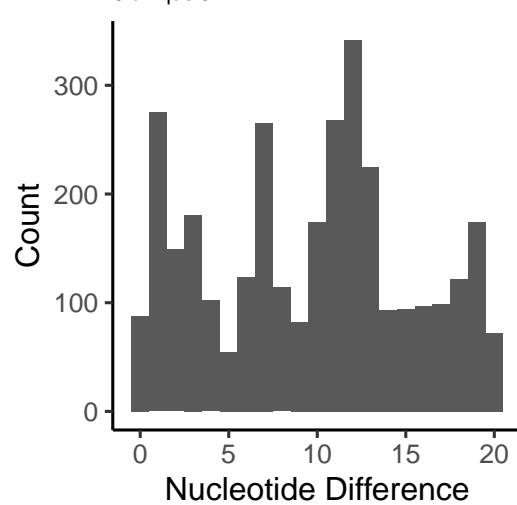
IGHV4-34*01

1283 sequences assigned
68 (5.3%) exact matches, in which:
48 unique CDR3
3 unique J



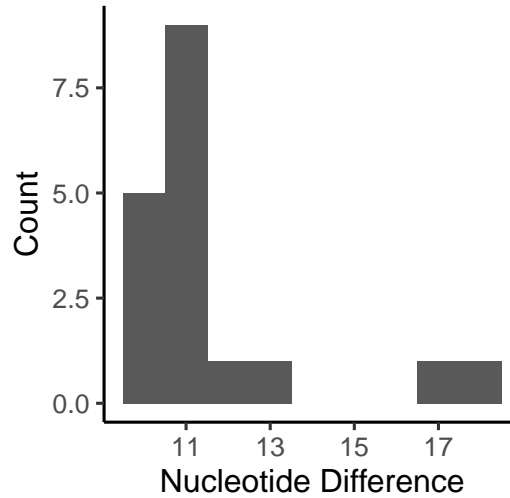
IGHV4-39*01

3823 sequences assigned
88 (2.3%) exact matches, in which:
56 unique CDR3
6 unique J



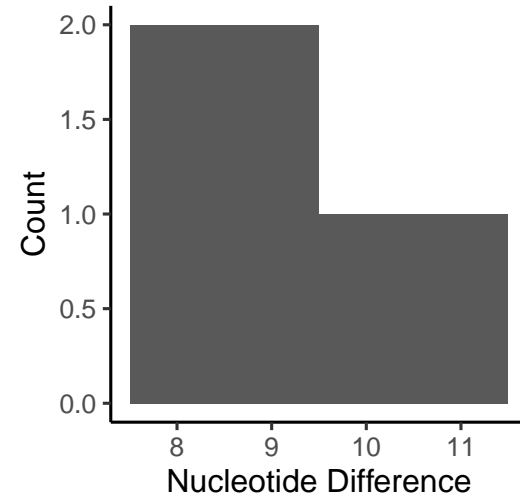
IGHV4-61*08

34 sequences assigned
No exact matches.



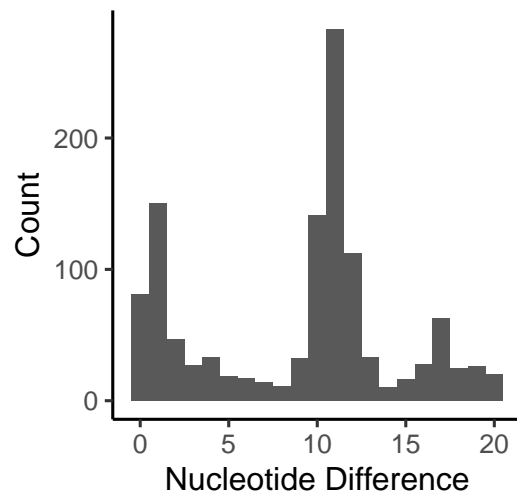
IGHV7-4-1*01

6 sequences assigned
No exact matches.



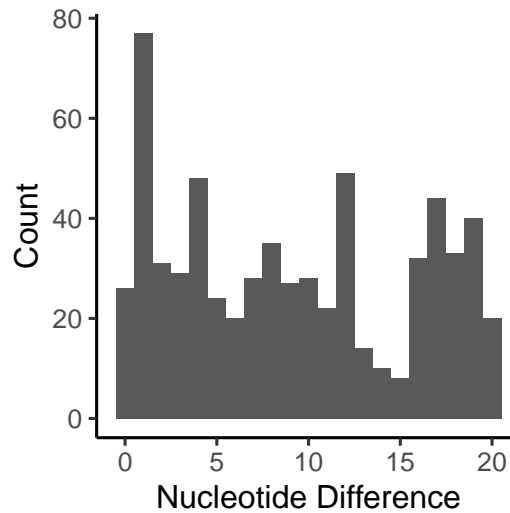
IGHV4-59*01

1624 sequences assigned
81 (5%) exact matches, in which:
37 unique CDR3
4 unique J



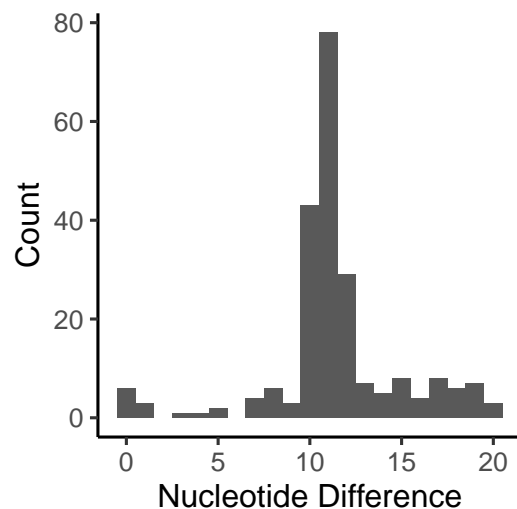
IGHV5-51*01

1334 sequences assigned
26 (1.9%) exact matches, in which:
16 unique CDR3
5 unique J



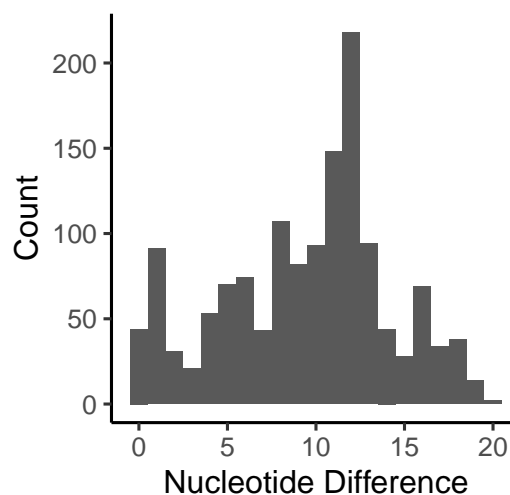
IGHV4-61*01

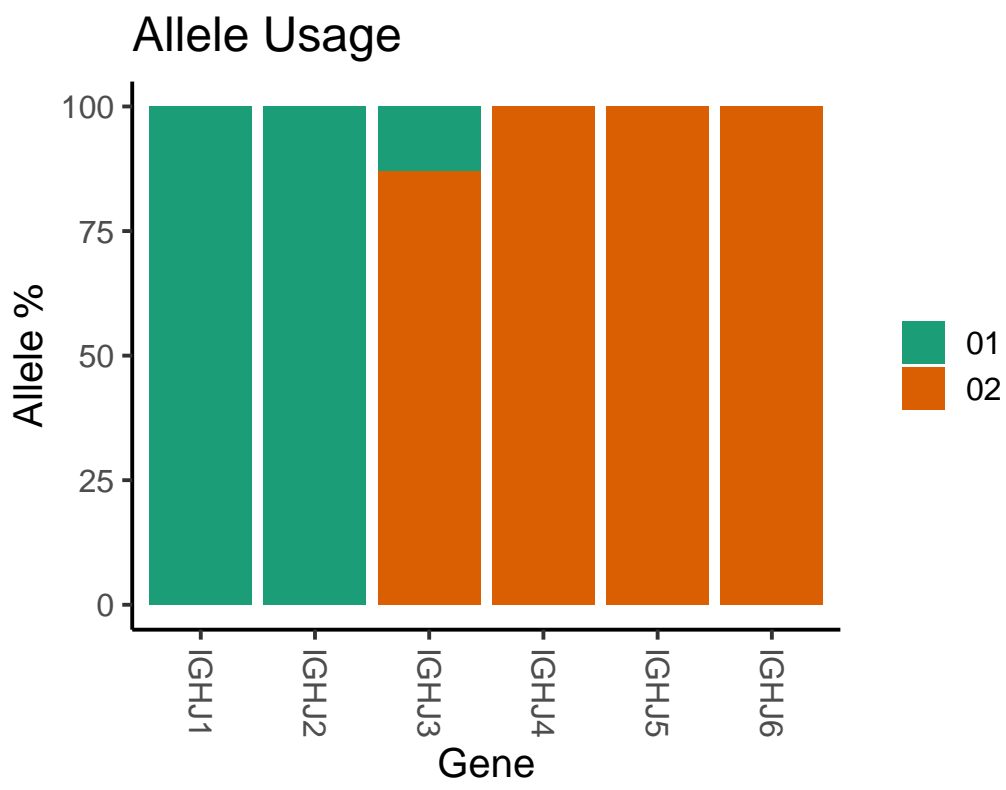
303 sequences assigned
6 (2%) exact matches, in which:
4 unique CDR3
3 unique J



IGHV6-1*01

1434 sequences assigned
44 (3.1%) exact matches, in which:
20 unique CDR3
3 unique J





Warning – no inferred sequences found.