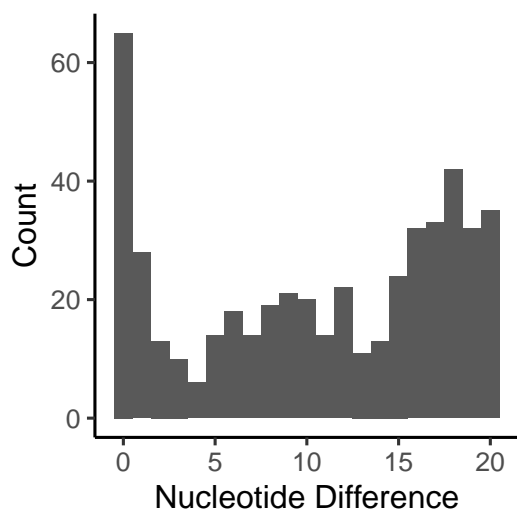


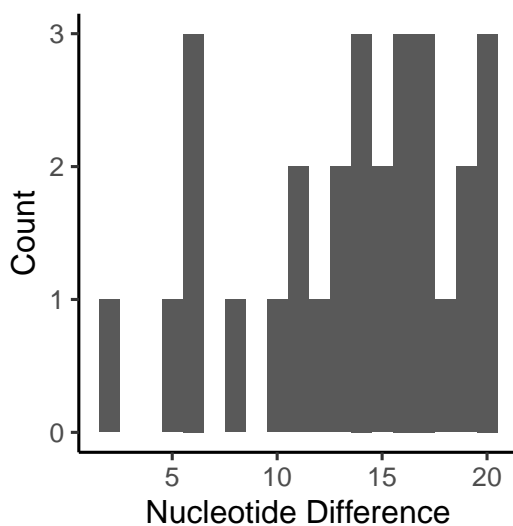
IGHV1-2*02

849 sequences assigned
65 (7.7%) exact matches, in which:
63 unique CDR3
6 unique J



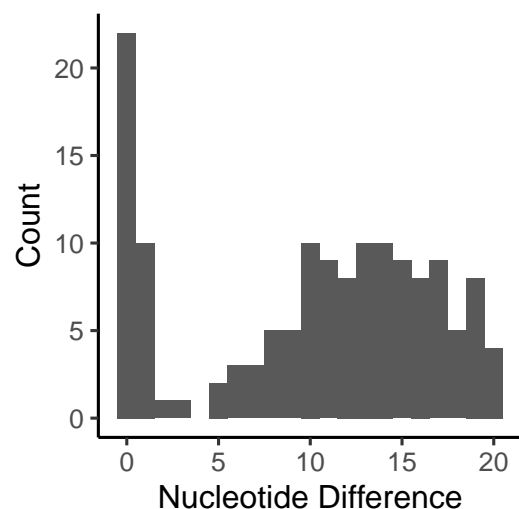
IGHV1-3*04

66 sequences assigned
No exact matches.



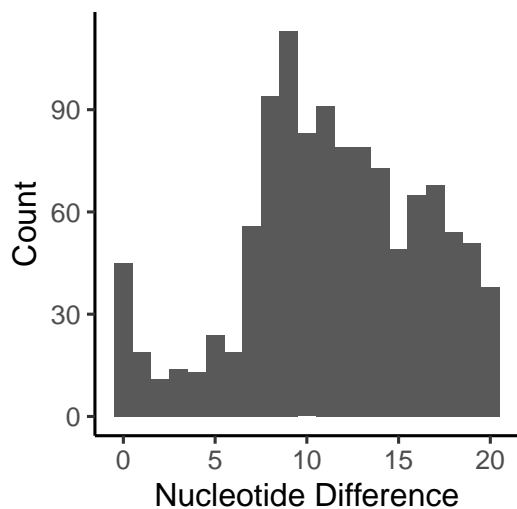
IGHV1-24*01

179 sequences assigned
22 (12.3%) exact matches, in which:
21 unique CDR3
4 unique J



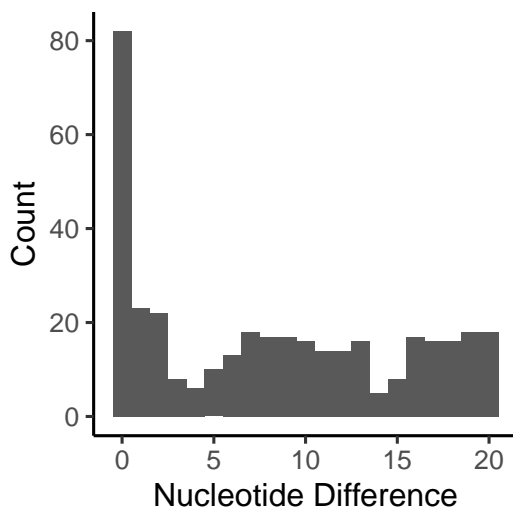
IGHV1-2*06

1449 sequences assigned
45 (3.1%) exact matches, in which:
45 unique CDR3
5 unique J



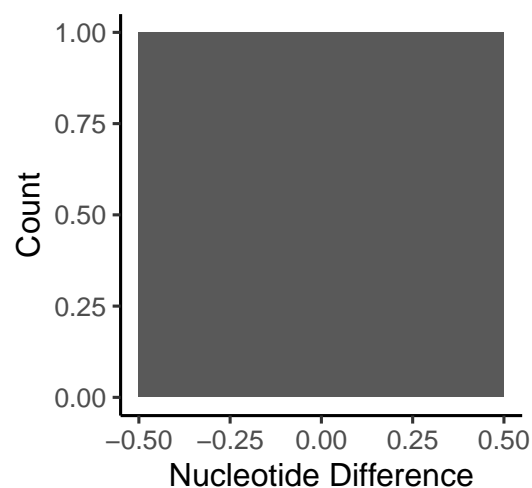
IGHV1-8*01

612 sequences assigned
82 (13.4%) exact matches, in which:
81 unique CDR3
6 unique J



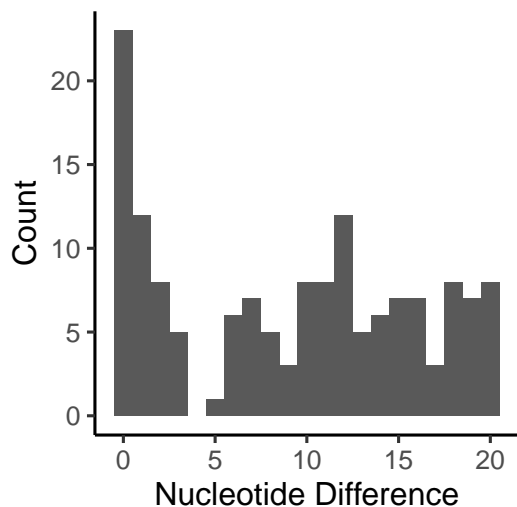
IGHV1-45*02

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



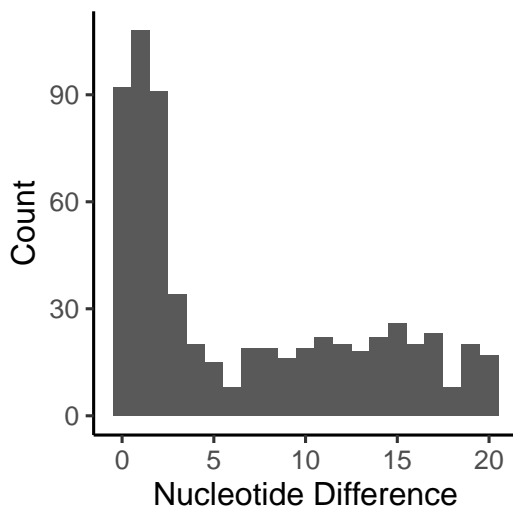
IGHV1-3*01

300 sequences assigned
23 (7.7%) exact matches, in which:
20 unique CDR3
3 unique J



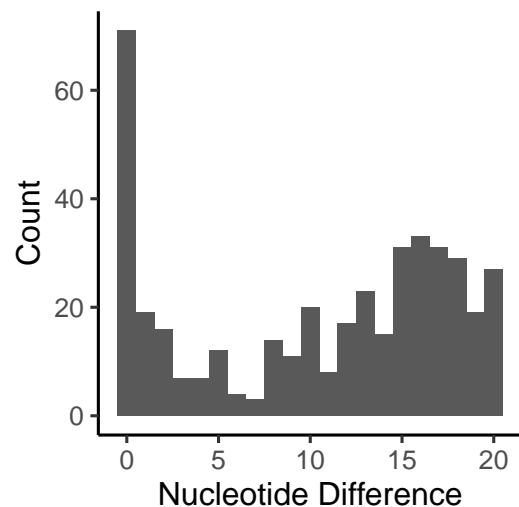
IGHV1-18*01

967 sequences assigned
92 (9.5%) exact matches, in which:
73 unique CDR3
5 unique J



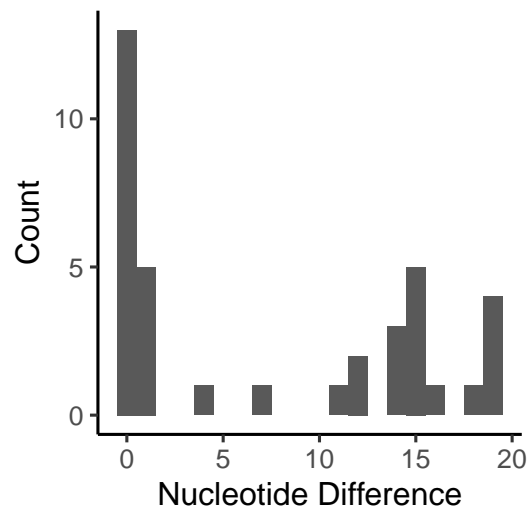
IGHV1-46*01

1274 sequences assigned
71 (5.6%) exact matches, in which:
63 unique CDR3
4 unique J



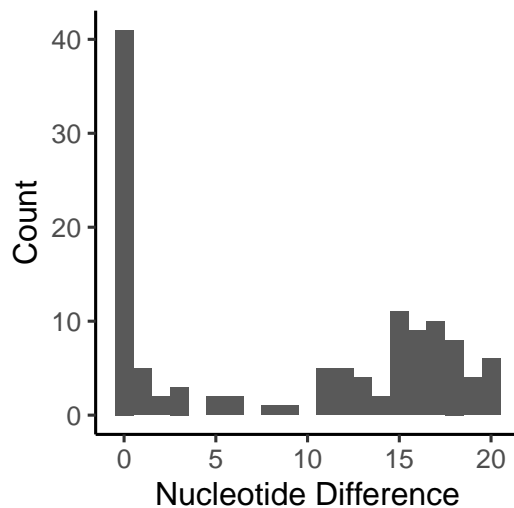
IGHV1-58*01

70 sequences assigned
13 (18.6%) exact matches, in which:
13 unique CDR3
6 unique J



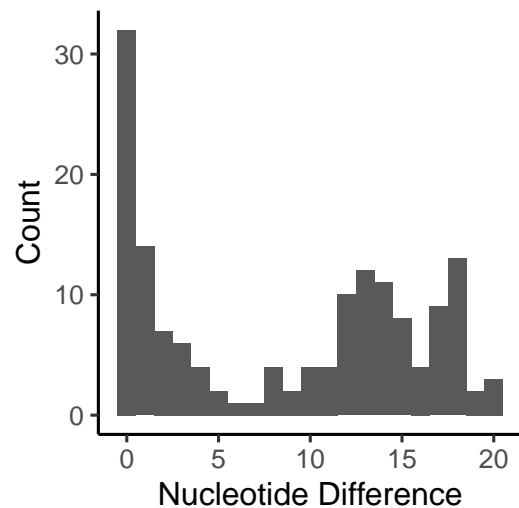
IGHV1-69*17

204 sequences assigned
41 (20.1%) exact matches, in which:
41 unique CDR3
6 unique J



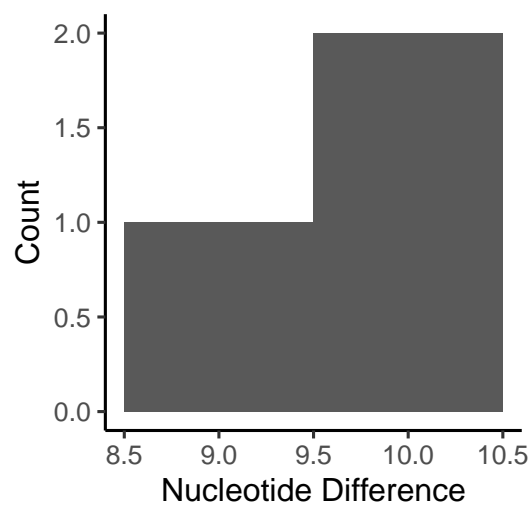
IGHV2-26*01

209 sequences assigned
32 (15.3%) exact matches, in which:
31 unique CDR3
5 unique J



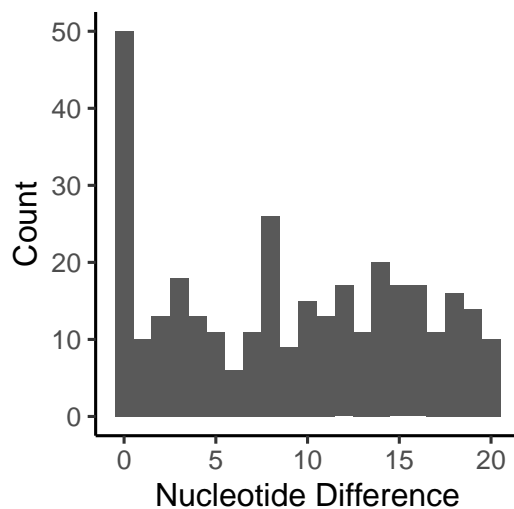
IGHV1-58*02

11 sequences assigned
No exact matches.



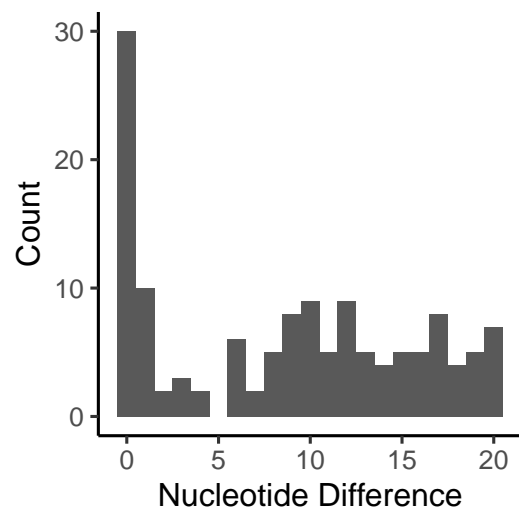
IGHV2-5*01

426 sequences assigned
50 (11.7%) exact matches, in which:
44 unique CDR3
6 unique J



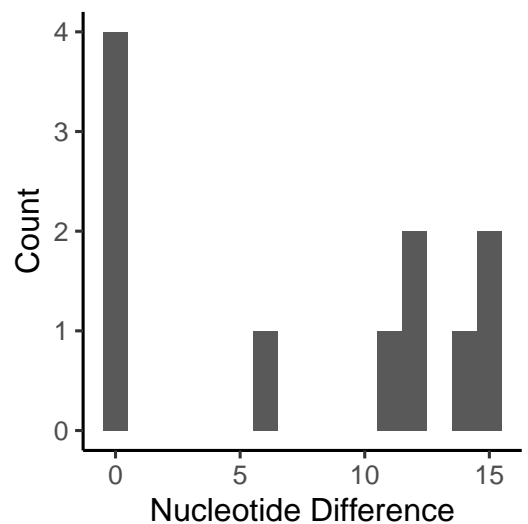
IGHV2-70*01

179 sequences assigned
30 (16.8%) exact matches, in which:
30 unique CDR3
6 unique J



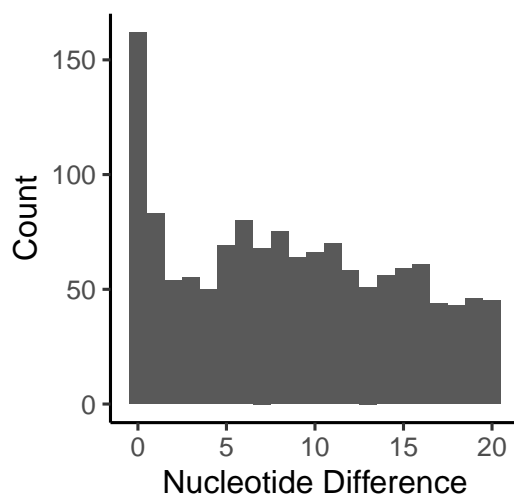
IGHV1-69-2*01

38 sequences assigned
4 (10.5%) exact matches, in which:
4 unique CDR3
3 unique J



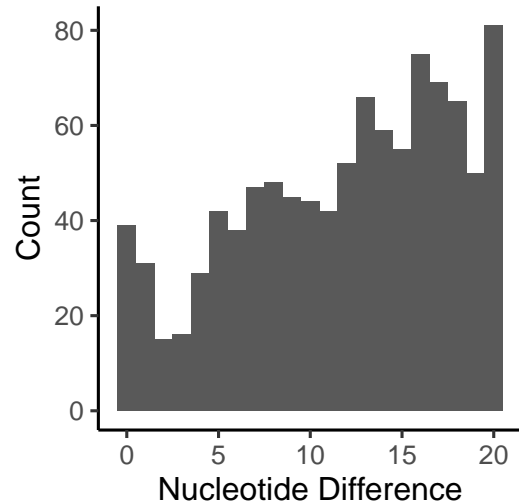
IGHV2-5*02

1769 sequences assigned
162 (9.2%) exact matches, in which:
125 unique CDR3
6 unique J



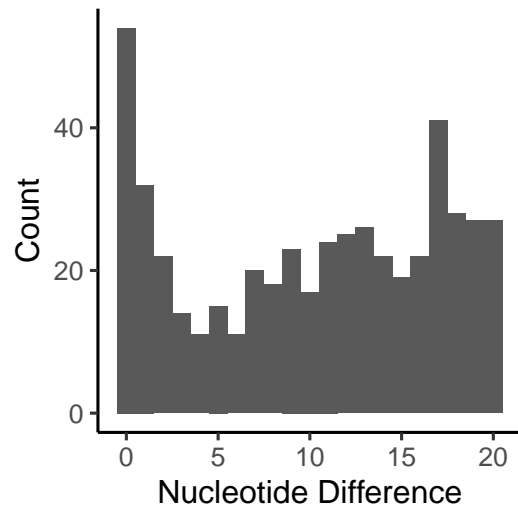
IGHV3-7*01

1528 sequences assigned
39 (2.6%) exact matches, in which:
37 unique CDR3
5 unique J



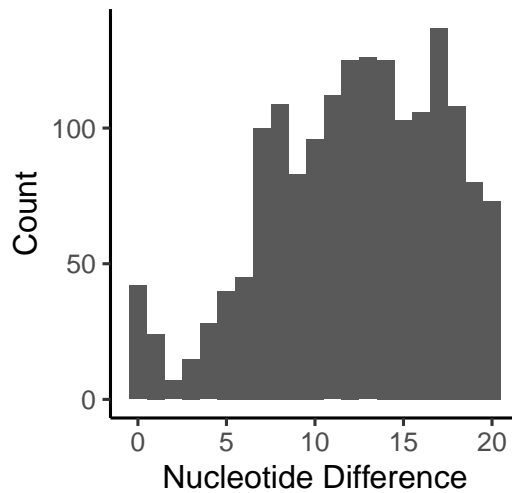
IGHV3-9*01

805 sequences assigned
54 (6.7%) exact matches, in which:
54 unique CDR3
5 unique J



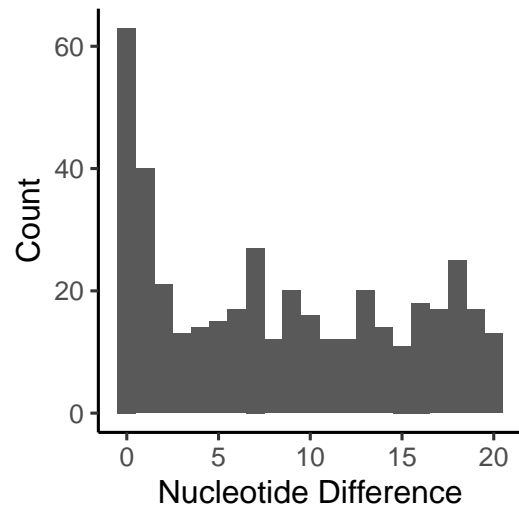
IGHV3-15*01

2406 sequences assigned
42 (1.7%) exact matches, in which:
41 unique CDR3
5 unique J



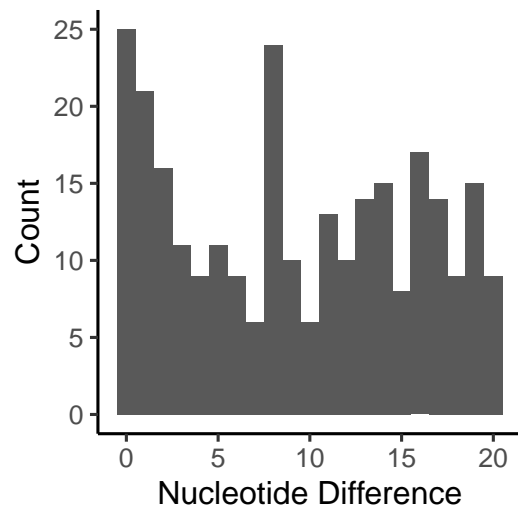
IGHV3-21*01

755 sequences assigned
63 (8.3%) exact matches, in which:
62 unique CDR3
6 unique J



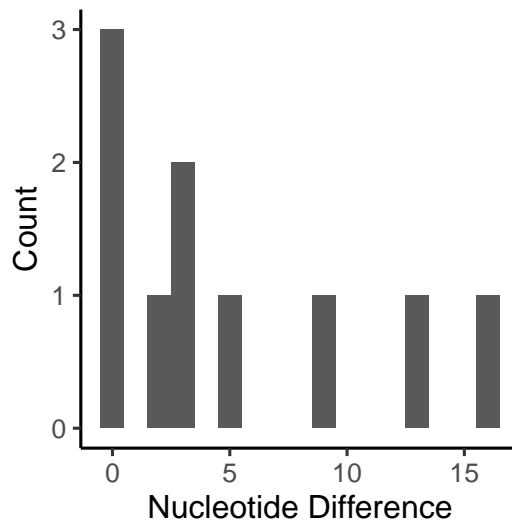
IGHV3-11*01

511 sequences assigned
25 (4.9%) exact matches, in which:
25 unique CDR3
4 unique J



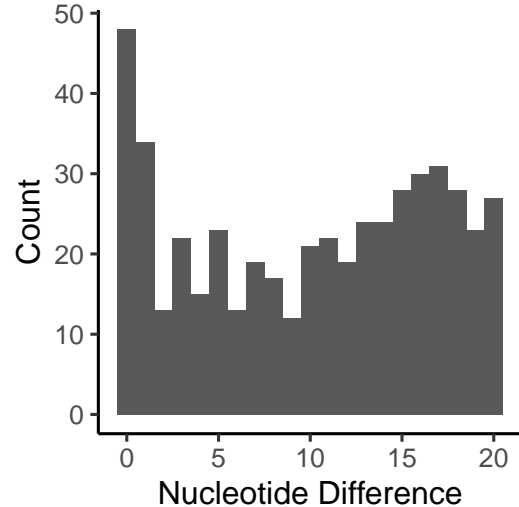
IGHV3-20*01

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



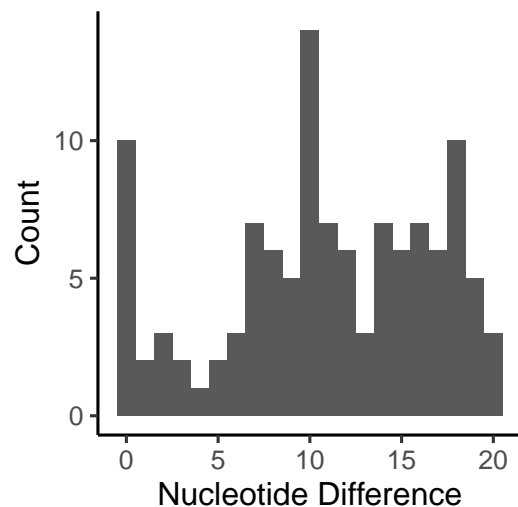
IGHV3-33*01

862 sequences assigned
48 (5.6%) exact matches, in which:
48 unique CDR3
4 unique J



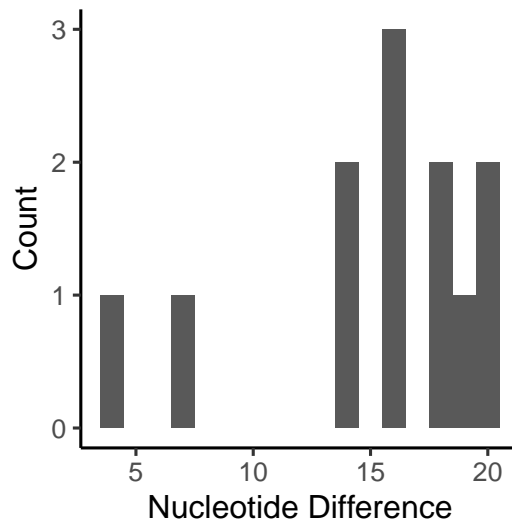
IGHV3-13*01

190 sequences assigned
10 (5.3%) exact matches, in which:
10 unique CDR3
3 unique J



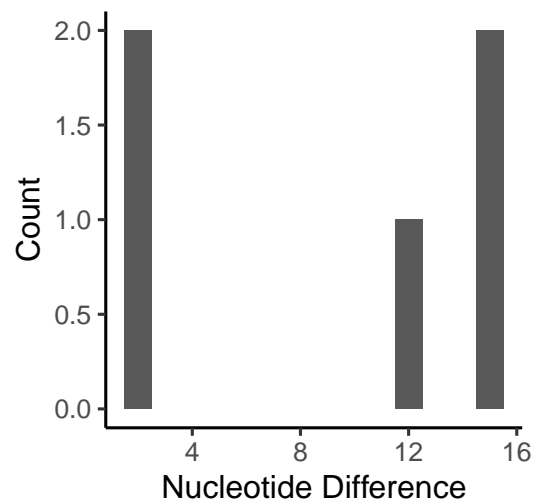
IGHV3-20*04

39 sequences assigned
No exact matches.



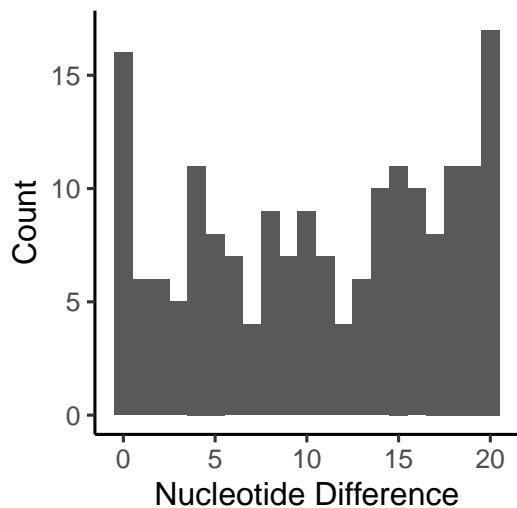
IGHV3-43*01

11 sequences assigned
No exact matches.



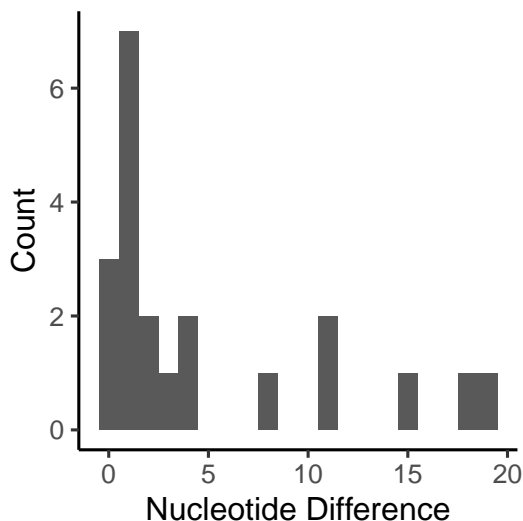
IGHV3-48*02

274 sequences assigned
16 (5.8%) exact matches, in which:
16 unique CDR3
5 unique J



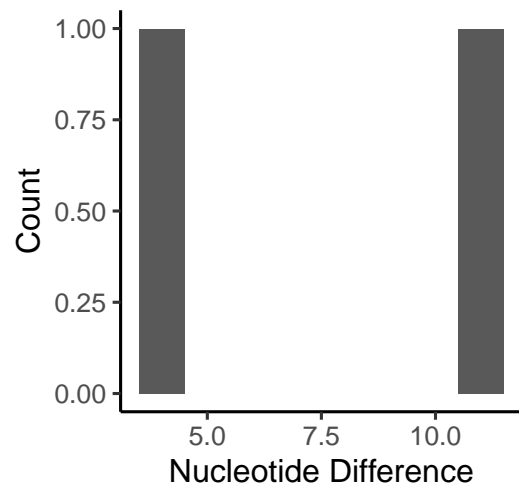
IGHV3-49*05

47 sequences assigned
3 (6.4%) exact matches, in which:
3 unique CDR3
2 unique J



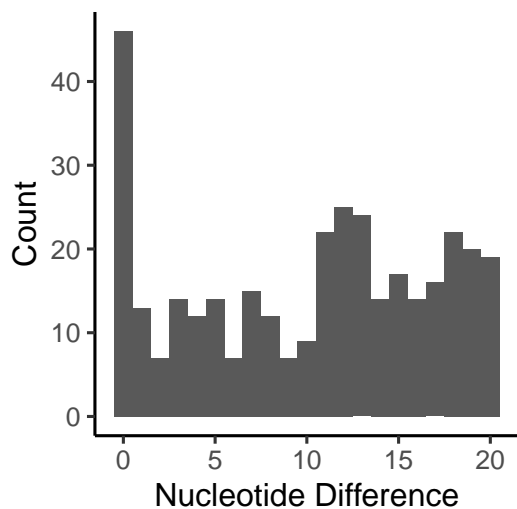
IGHV3-64*02

3 sequences assigned
No exact matches.



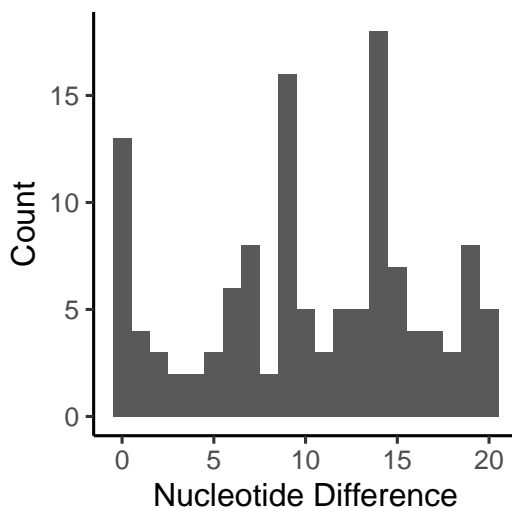
IGHV3-48*03

519 sequences assigned
46 (8.9%) exact matches, in which:
46 unique CDR3
5 unique J



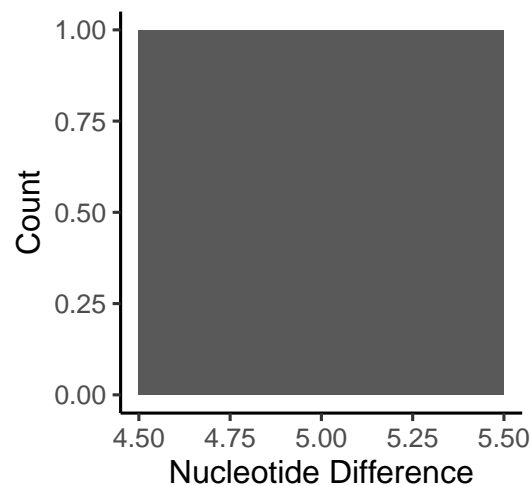
IGHV3-53*01

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



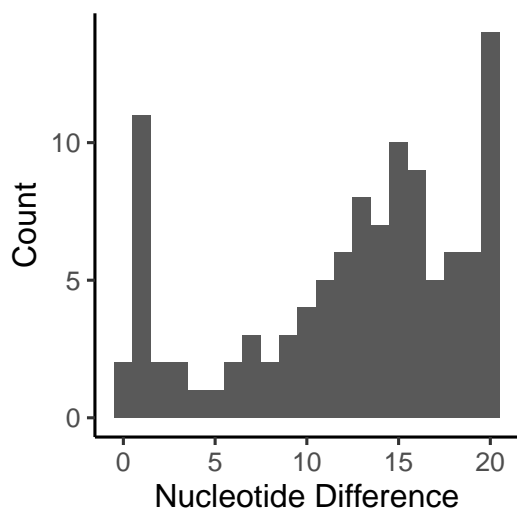
IGHV3-64*05

1 sequences assigned
No exact matches.



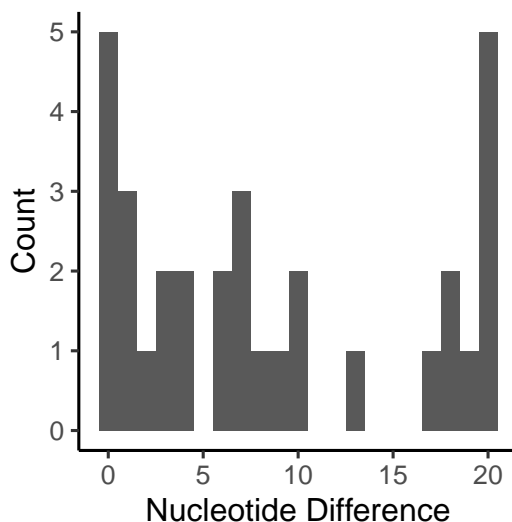
IGHV3-49*04

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



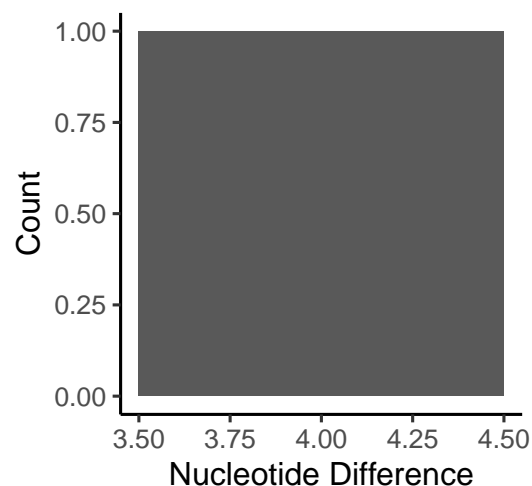
IGHV3-53*02

47 sequences assigned
5 (10.6%) exact matches, in which:
5 unique CDR3
2 unique J



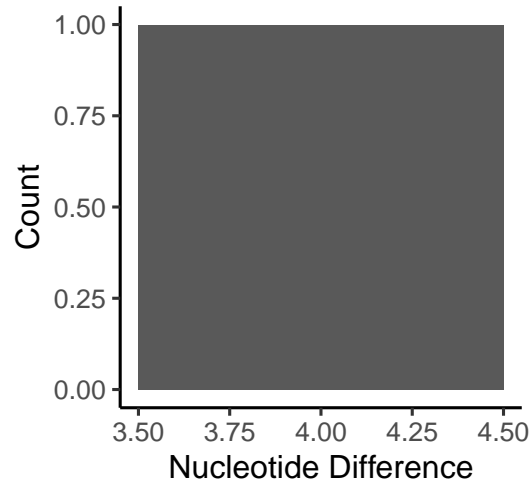
IGHV3-66*01

1 sequences assigned
No exact matches.



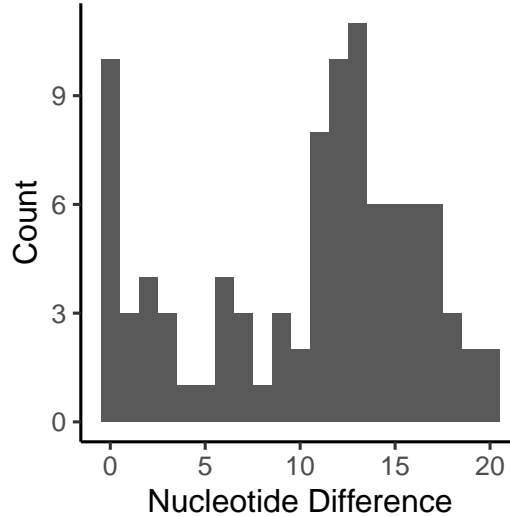
IGHV3-66*04

1 sequences assigned
No exact matches.



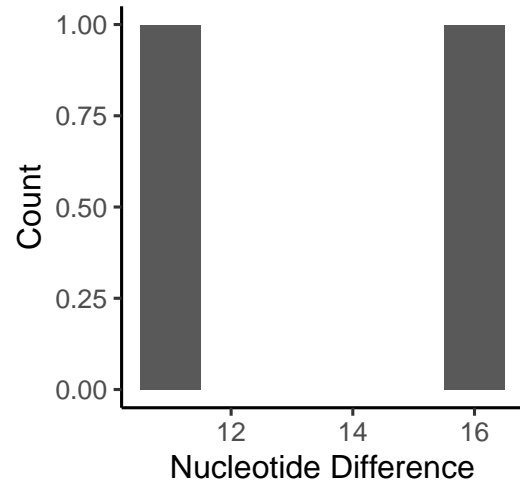
IGHV3-73*02

216 sequences assigned
10 (4.6%) exact matches, in which:
10 unique CDR3
2 unique J



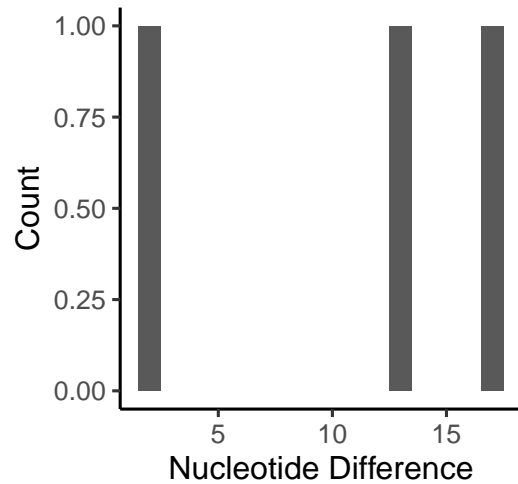
IGHV3-43D*04

7 sequences assigned
No exact matches.



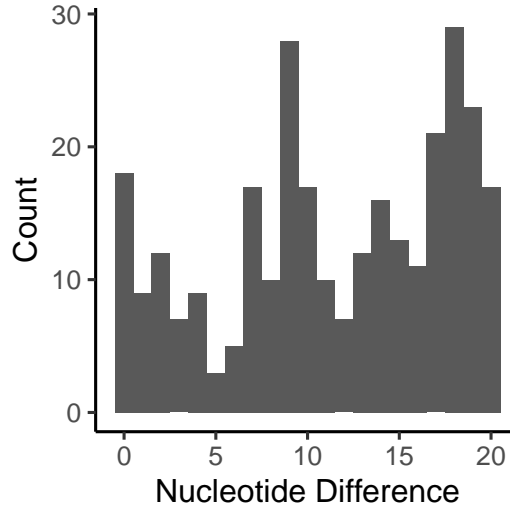
IGHV3-69-1*01

4 sequences assigned
No exact matches.



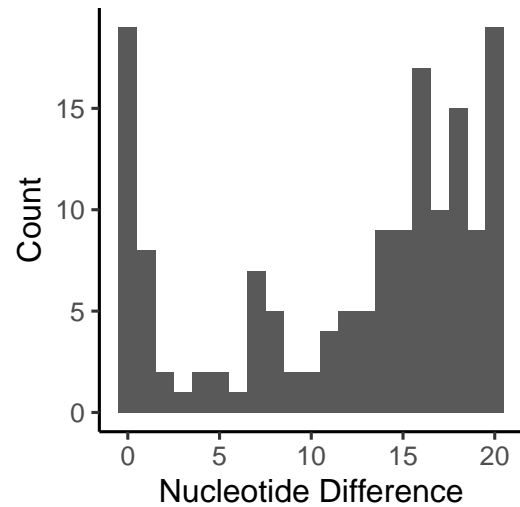
IGHV3-74*01

398 sequences assigned
18 (4.5%) exact matches, in which:
14 unique CDR3
4 unique J



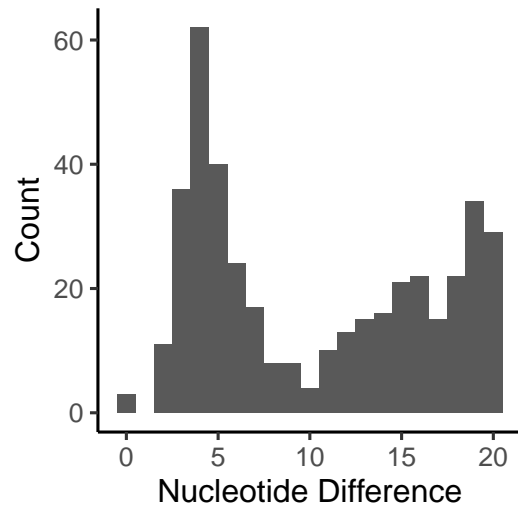
IGHV4-4*02

326 sequences assigned
19 (5.8%) exact matches, in which:
19 unique CDR3
5 unique J



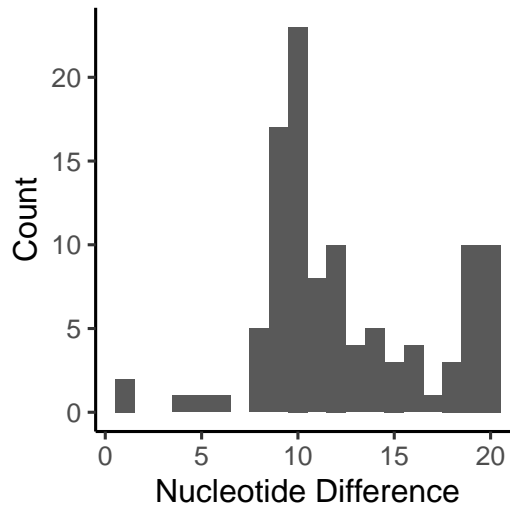
IGHV3-72*01

536 sequences assigned
3 (0.6%) exact matches, in which:
3 unique CDR3
3 unique J



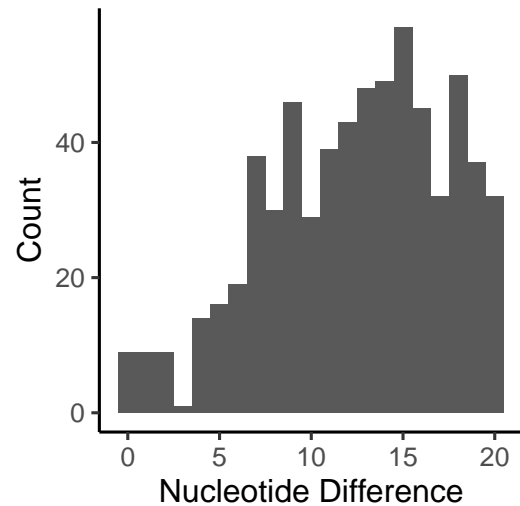
IGHV3-74*03

145 sequences assigned
No exact matches.



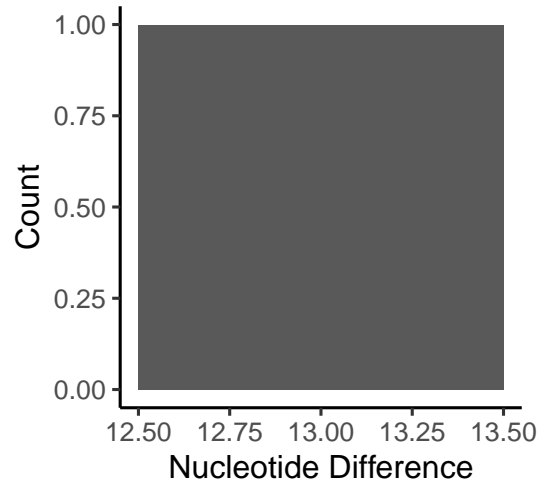
IGHV4-4*07

925 sequences assigned
9 (1%) exact matches, in which:
9 unique CDR3
5 unique J



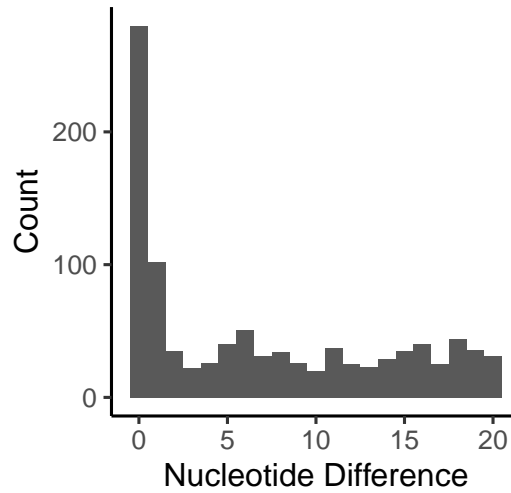
IGHV4-28*01

1 sequences assigned
No exact matches.



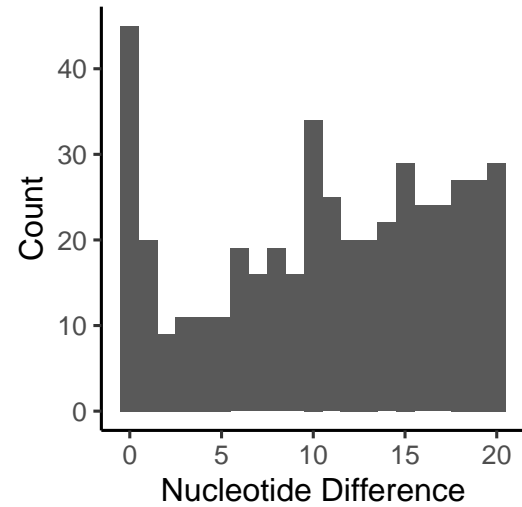
IGHV4-34*01

1608 sequences assigned
280 (17.4%) exact matches, in which:
271 unique CDR3
7 unique J



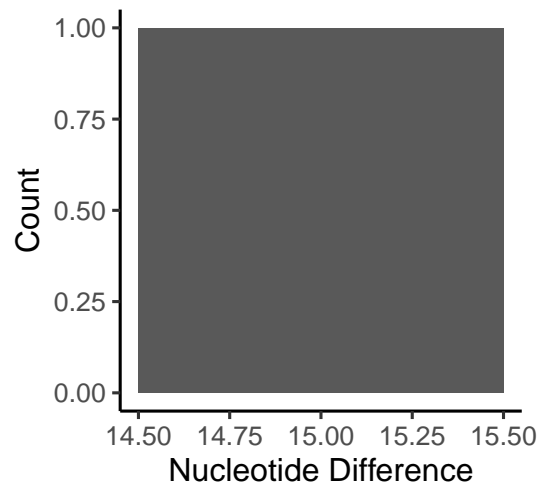
IGHV4-39*01

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



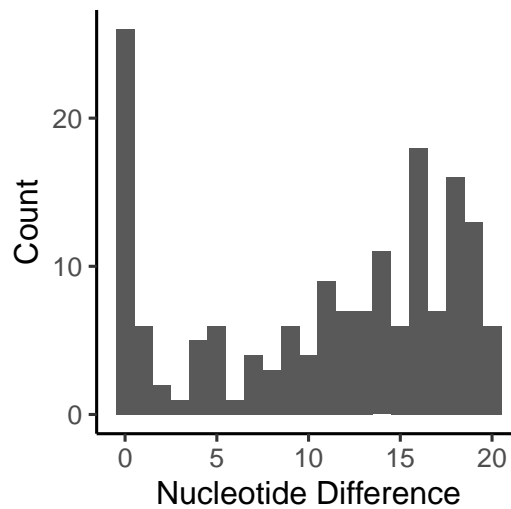
IGHV4-28*05

1 sequences assigned
No exact matches.



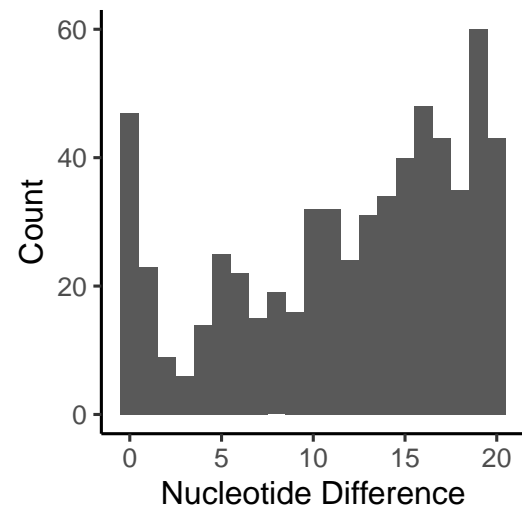
IGHV4-38-2*01

296 sequences assigned
26 (8.8%) exact matches, in which:
26 unique CDR3
4 unique J



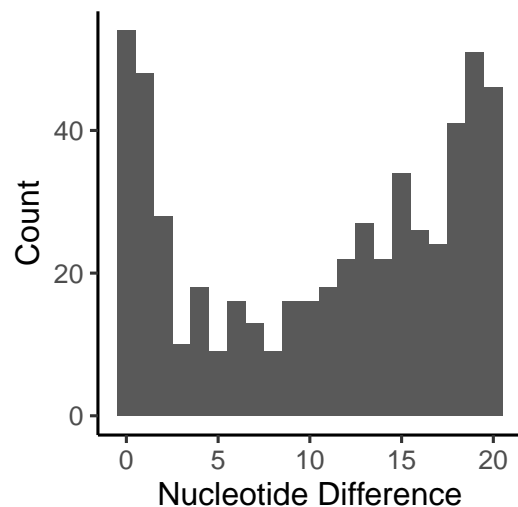
IGHV4-59*01

990 sequences assigned
47 (4.7%) exact matches, in which:
47 unique CDR3
6 unique J



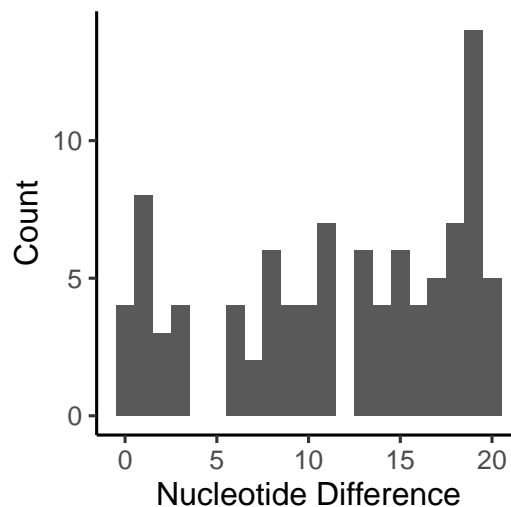
IGHV4-31*03

1007 sequences assigned
54 (5.4%) exact matches, in which:
50 unique CDR3
6 unique J



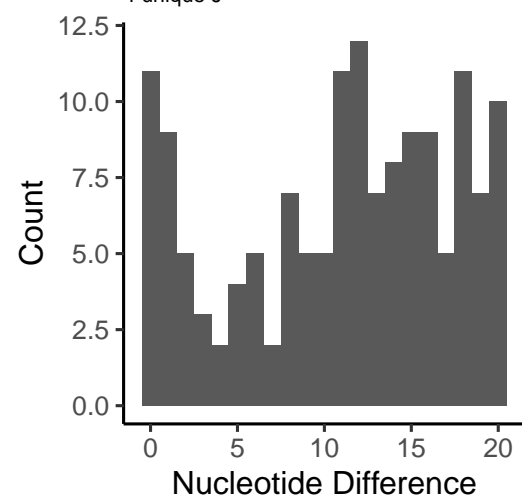
IGHV4-38-2*02

192 sequences assigned
4 (2.1%) exact matches, in which:
4 unique CDR3
4 unique J



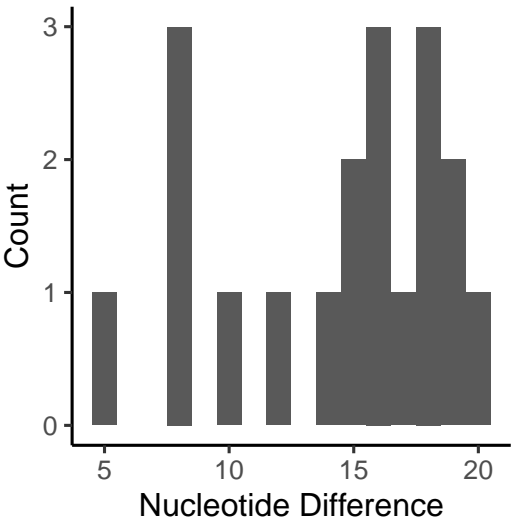
IGHV4-61*01

255 sequences assigned
11 (4.3%) exact matches, in which:
11 unique CDR3
4 unique J



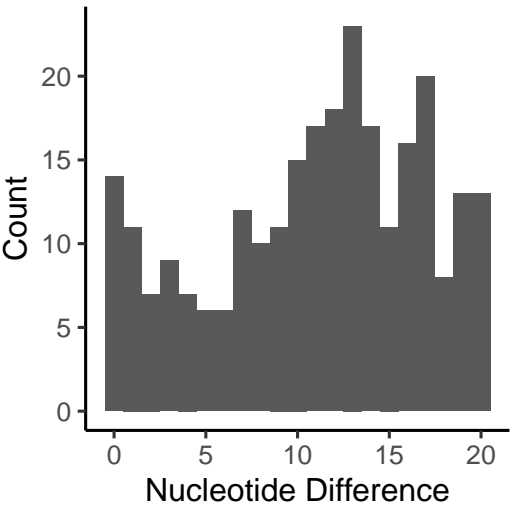
IGHV4–61*08

47 sequences assigned
No exact matches.



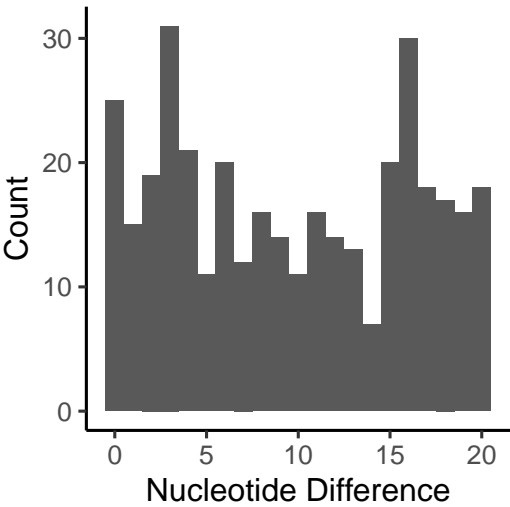
IGHV6–1*01

330 sequences assigned
14 (4.2%) exact matches, in which:
14 unique CDR3
5 unique J



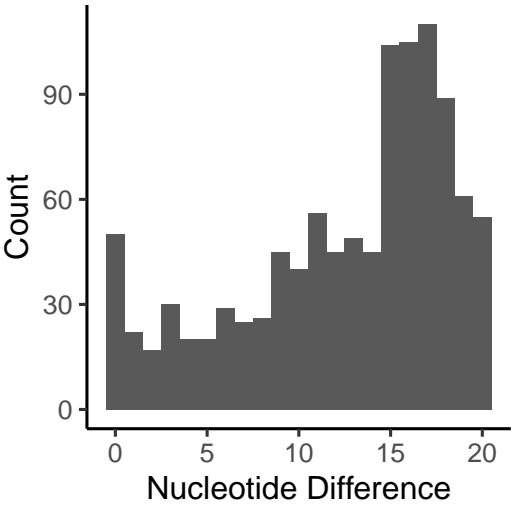
IGHV7–4–1*02

489 sequences assigned
25 (5.1%) exact matches, in which:
23 unique CDR3
3 unique J



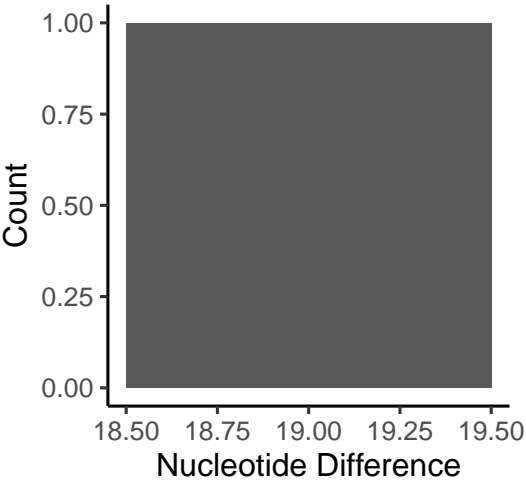
IGHV5–51*01

1377 sequences assigned
50 (3.6%) exact matches, in which:
47 unique CDR3
6 unique J



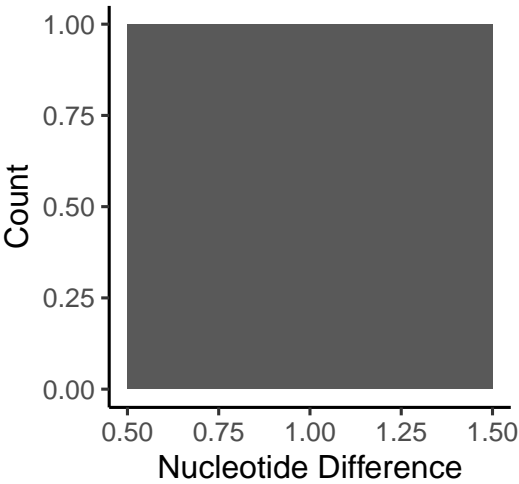
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



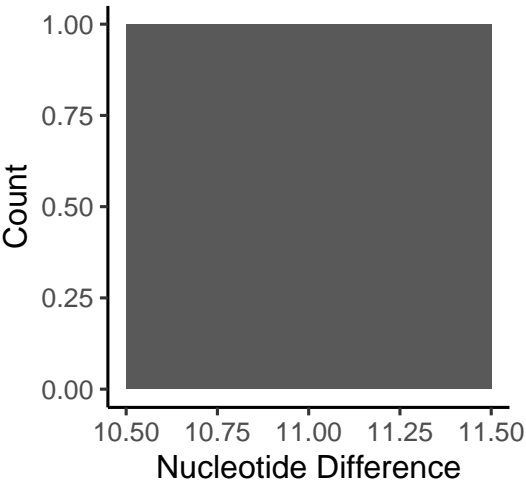
IGHV5–78*01

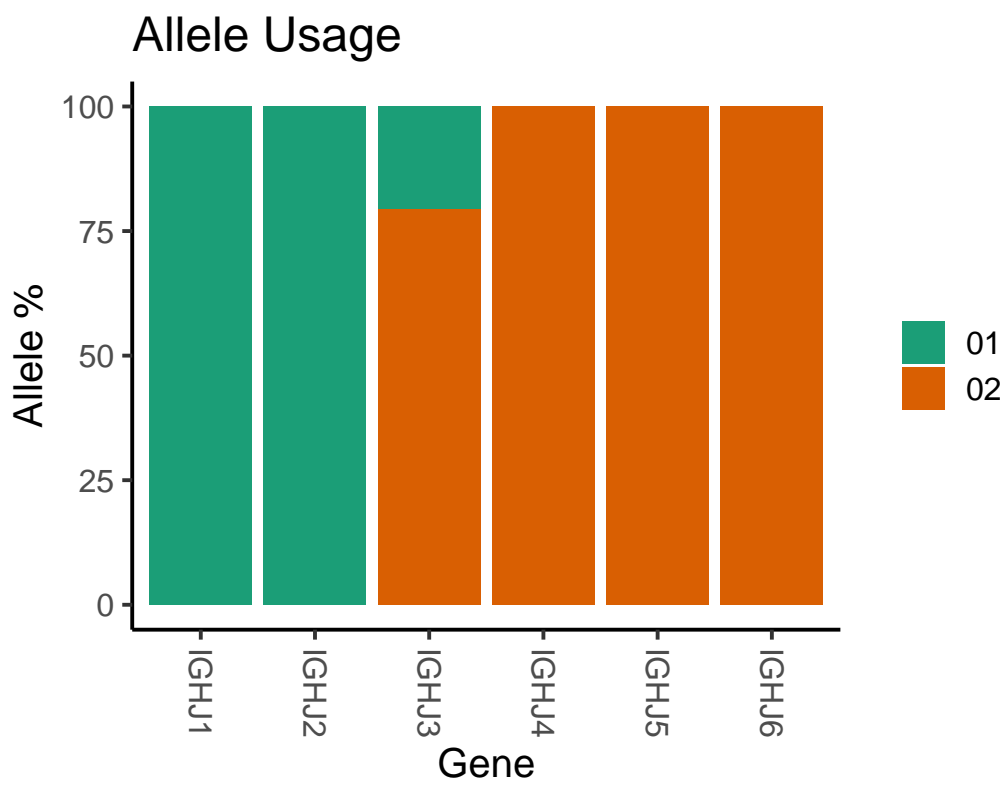
1 sequences assigned
No exact matches.



IGHV3/OR16–12*01

1 sequences assigned
No exact matches.





Novel sequence(s)IGHV4-31*03_G4C are not listed in the genotype and will be ignored.