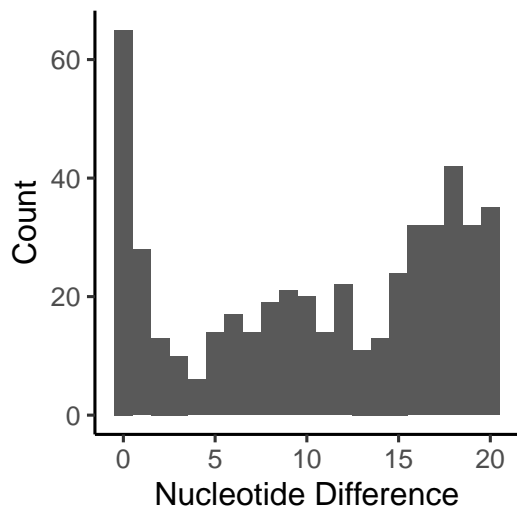


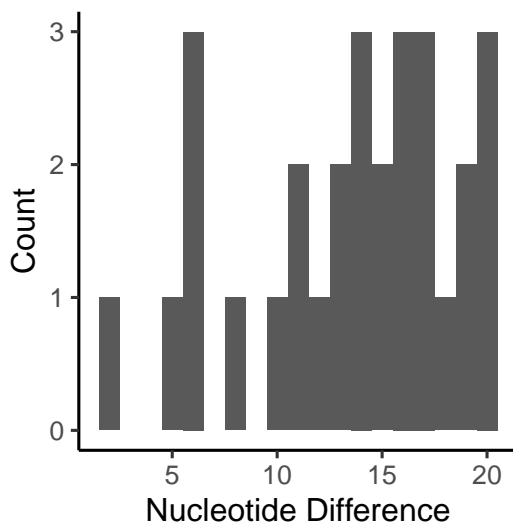
IGHV1-2*02

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



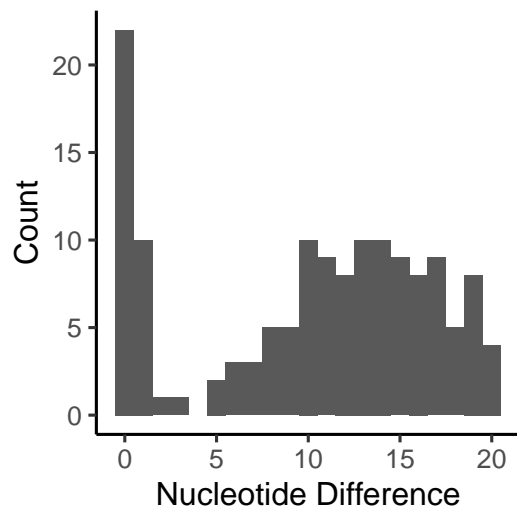
IGHV1-3*04

66 sequences assigned
No exact matches.



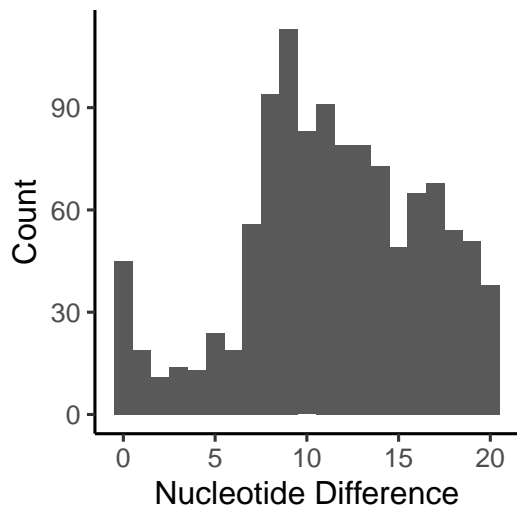
IGHV1-24*01

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



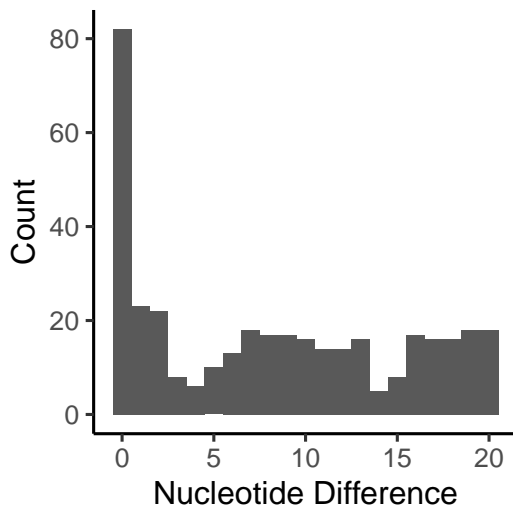
IGHV1-2*06

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



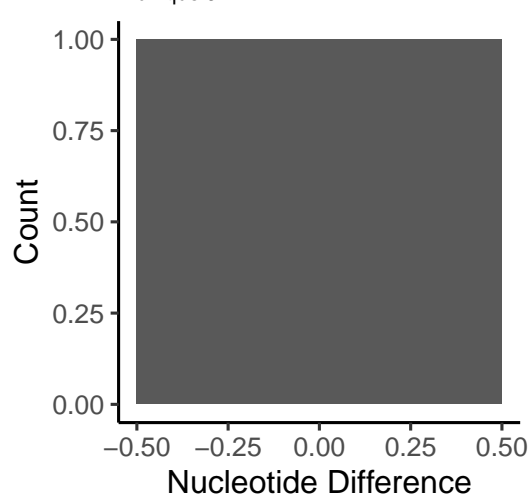
IGHV1-8*01

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



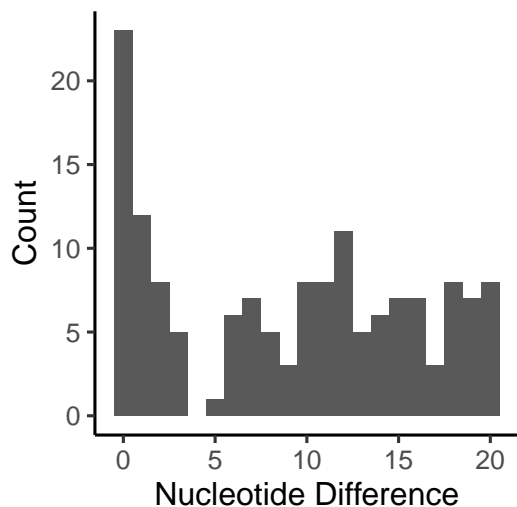
IGHV1-45*02

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



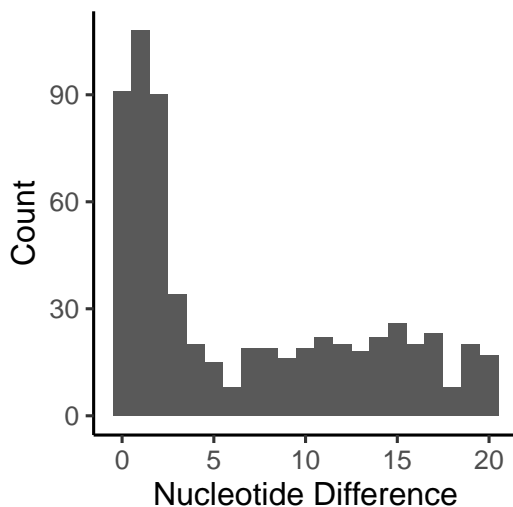
IGHV1-3*01

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



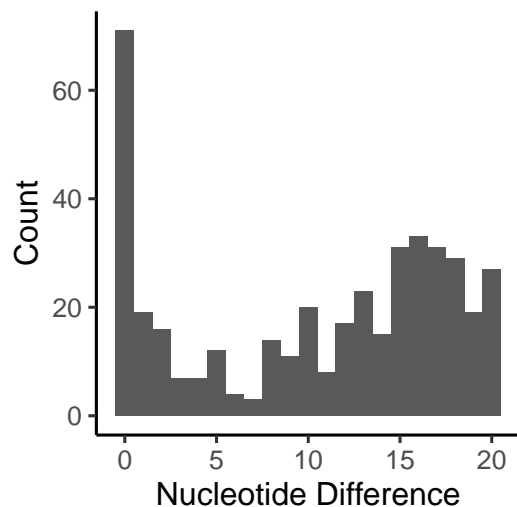
IGHV1-18*01

965 sequences assigned
91 (9.4%) exact matches, in which:
72 unique CDR3
4 unique J



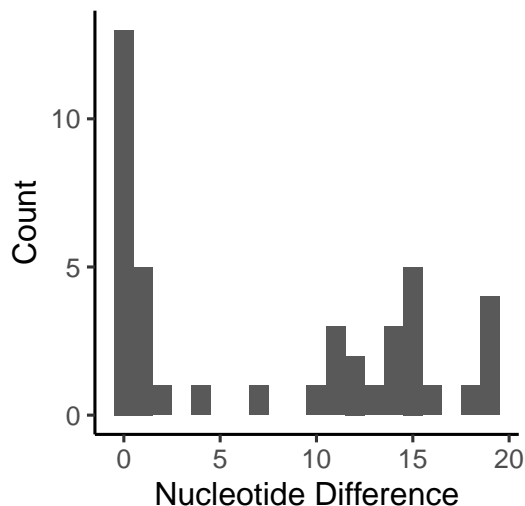
IGHV1-46*01

1273 sequences assigned
71 (5.6%) exact matches, in which:
63 unique CDR3
4 unique J



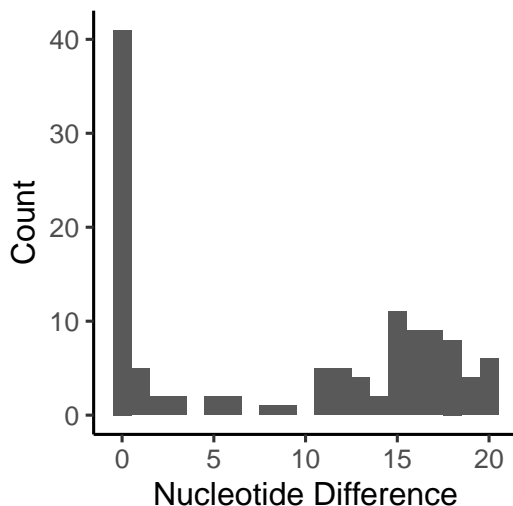
IGHV1-58*01

83 sequences assigned
13 (15.7%) exact matches, in which:
13 unique CDR3
6 unique J



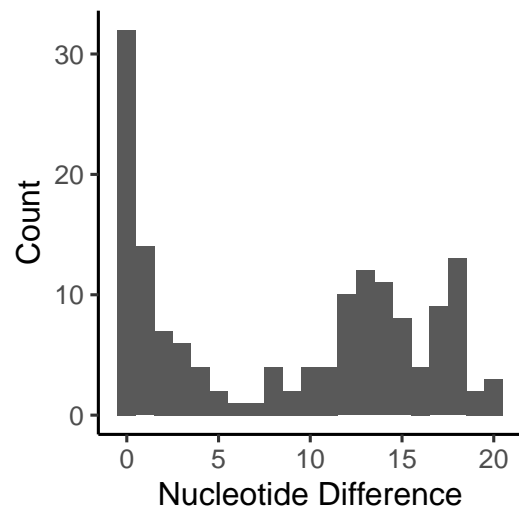
IGHV1-69*17

202 sequences assigned
41 (20.3%) exact matches, in which:
41 unique CDR3
6 unique J



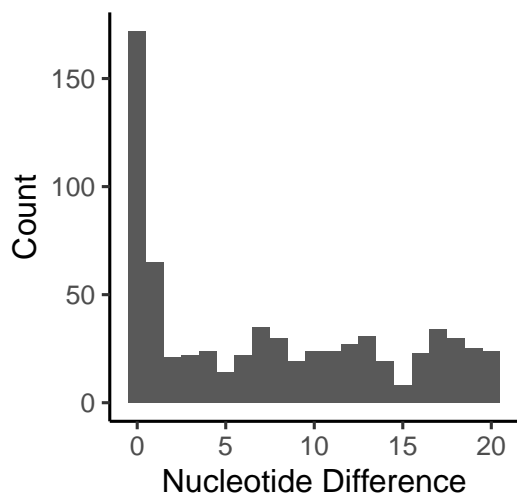
IGHV2-26*01

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



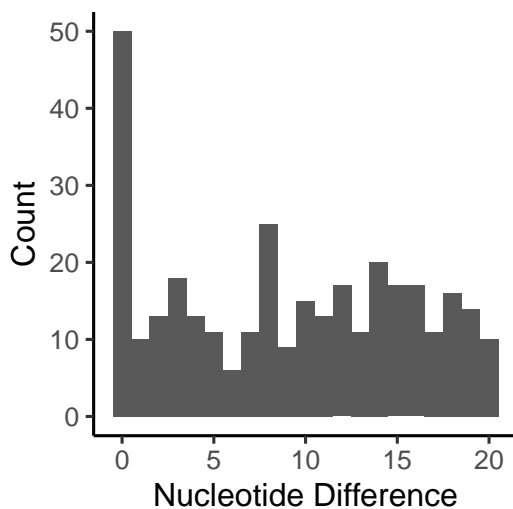
IGHV1-69*01

1103 sequences assigned
172 (15.6%) exact matches, in which:
171 unique CDR3
6 unique J



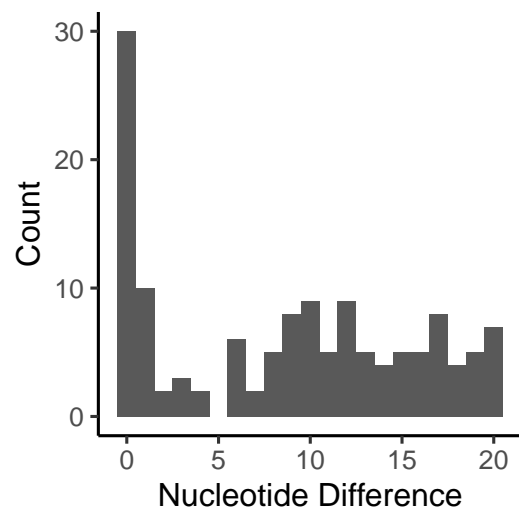
IGHV2-5*01

425 sequences assigned
50 (11.8%) exact matches, in which:
44 unique CDR3
6 unique J



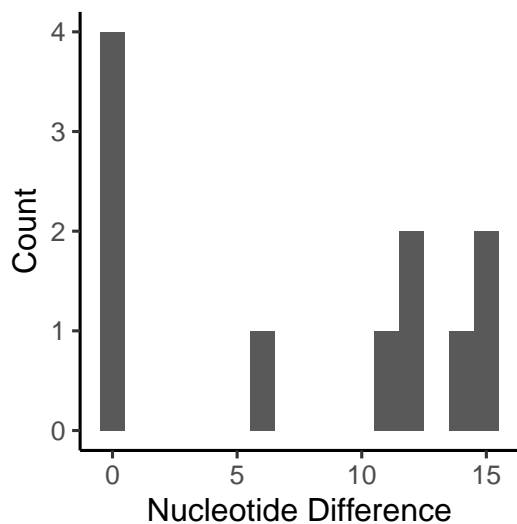
IGHV2-70*01

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



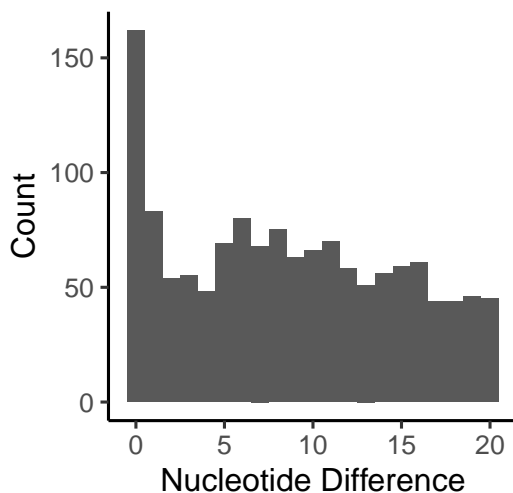
IGHV1-69-2*01

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



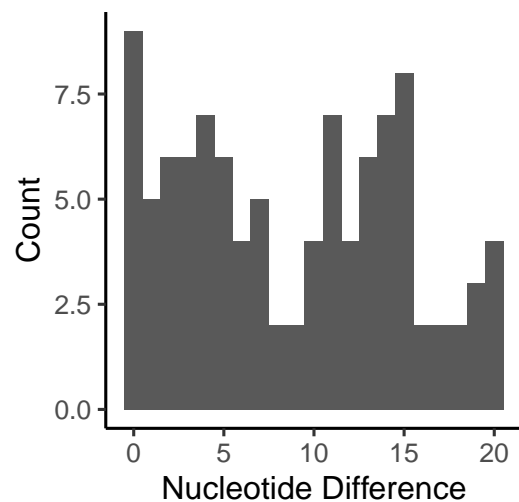
IGHV2-5*02

1767 sequences assigned
162 (9.2%) exact matches, in which:
125 unique CDR3
6 unique J



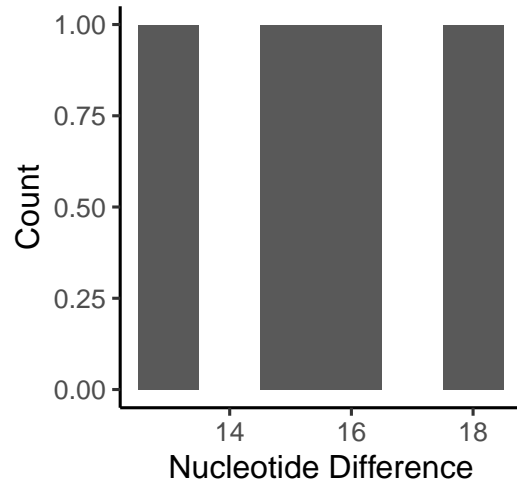
IGHV2-70*04

126 sequences assigned
9 (7.1%) exact matches, in which:
9 unique CDR3
4 unique J



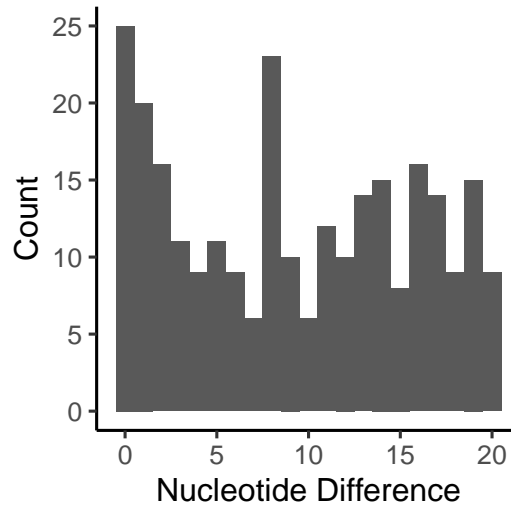
IGHV2-70D*14

4 sequences assigned
No exact matches.



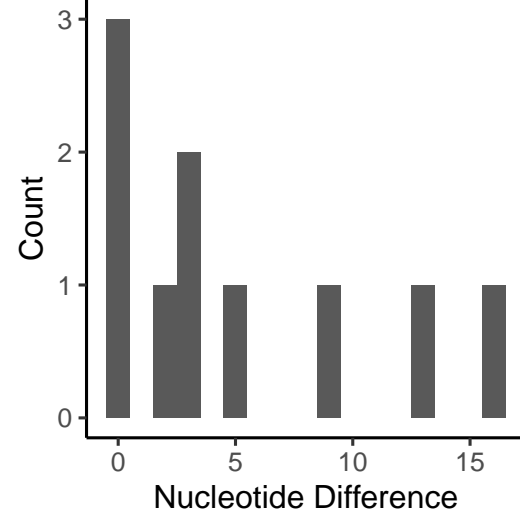
IGHV3-11*01

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



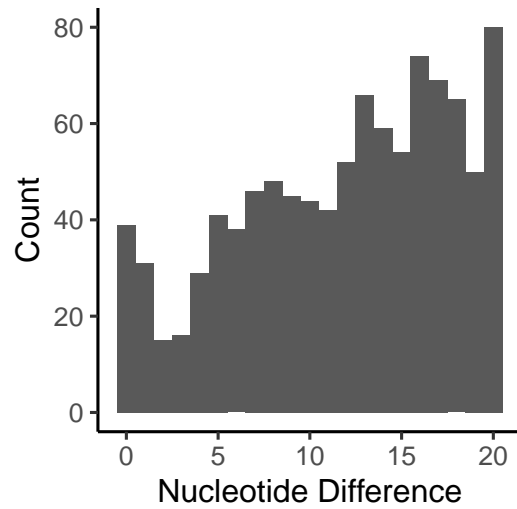
IGHV3-20*01

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



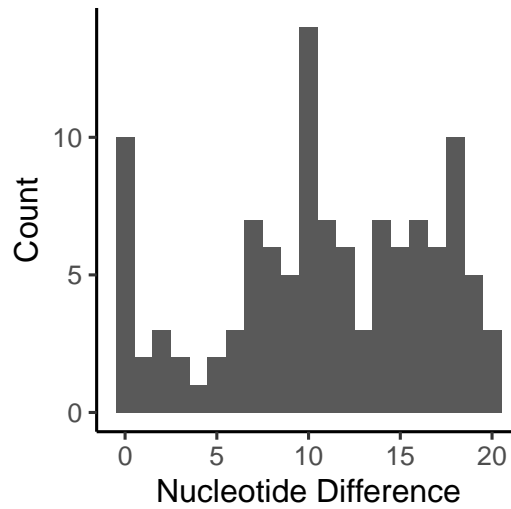
IGHV3-7*01

1516 sequences assigned
39 (2.6%) exact matches, in which:
37 unique CDR3
5 unique J



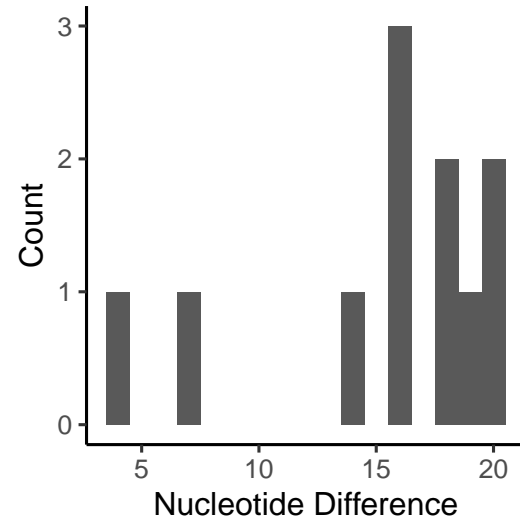
IGHV3-13*01

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



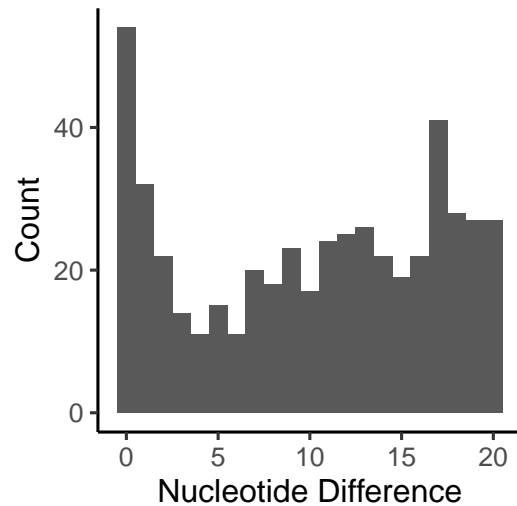
IGHV3-20*04

38 sequences assigned
No exact matches.



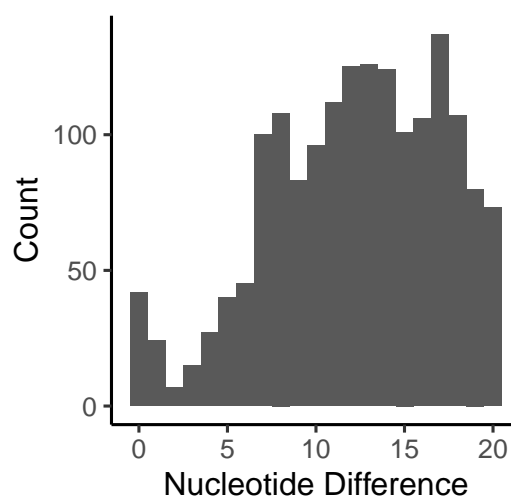
IGHV3-9*01

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



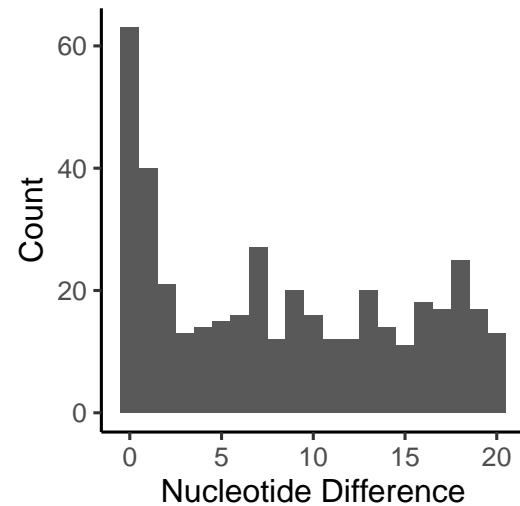
IGHV3-15*01

2398 sequences assigned
42 (1.8%) exact matches, in which:
41 unique CDR3
5 unique J



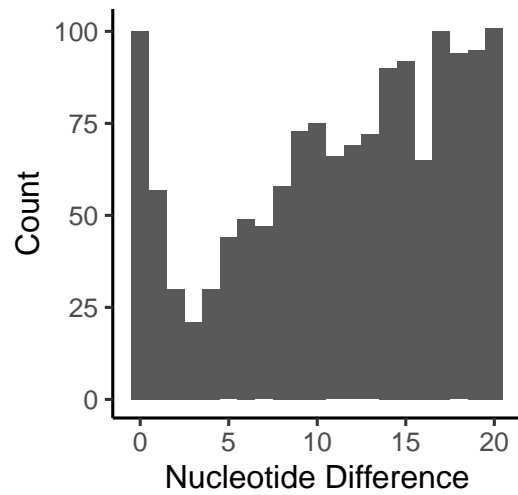
IGHV3-21*01

752 sequences assigned
63 (8.4%) exact matches, in which:
62 unique CDR3
6 unique J



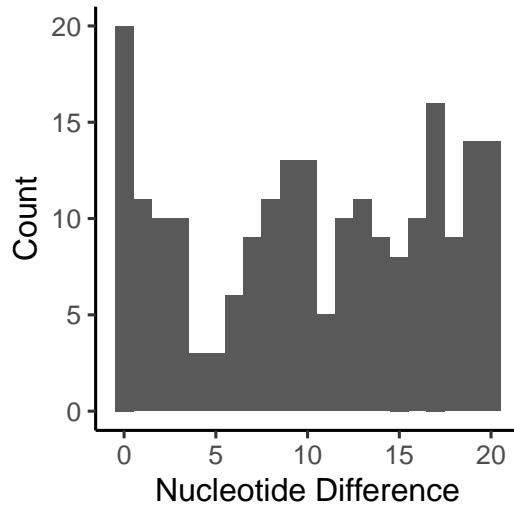
IGHV3-23*01

2463 sequences assigned
100 (4.1%) exact matches, in which:
99 unique CDR3
7 unique J



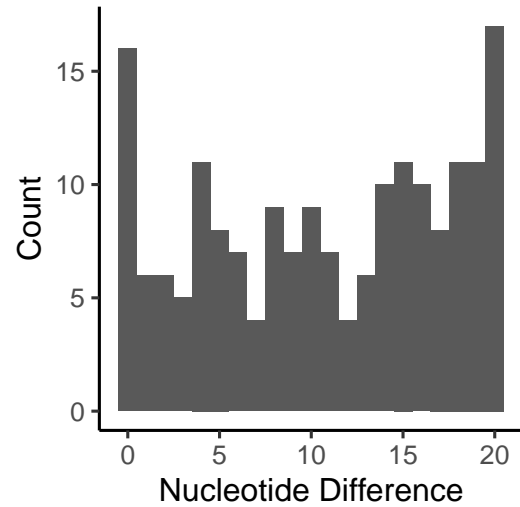
IGHV3-30*18

355 sequences assigned
20 (5.6%) exact matches, in which:
20 unique CDR3
5 unique J



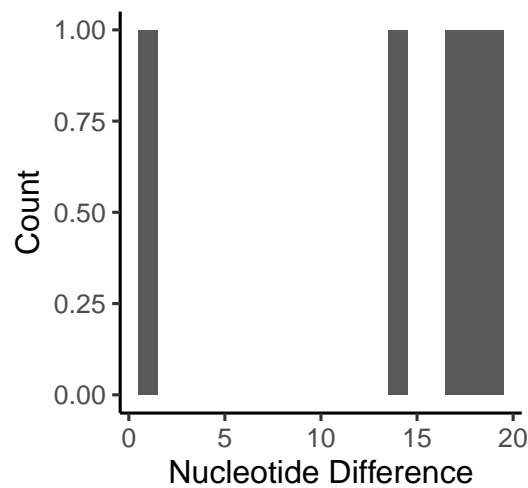
IGHV3-48*02

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



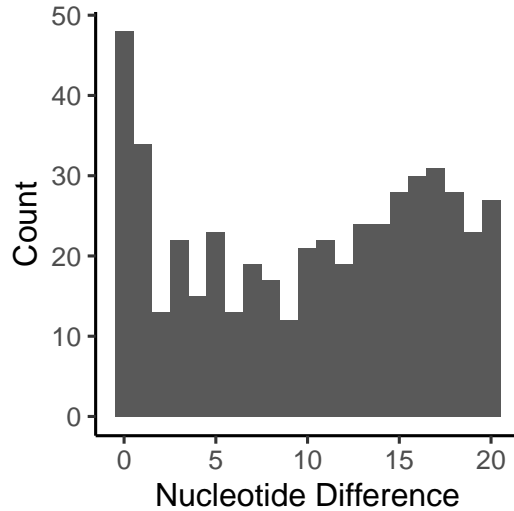
IGHV3-30-3*01

23 sequences assigned
No exact matches.



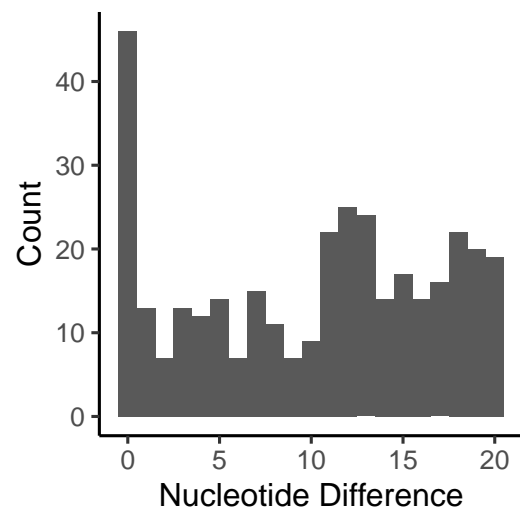
IGHV3-33*01

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



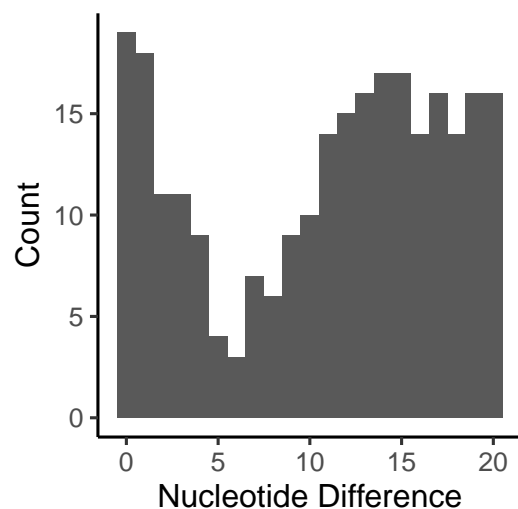
IGHV3-48*03

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



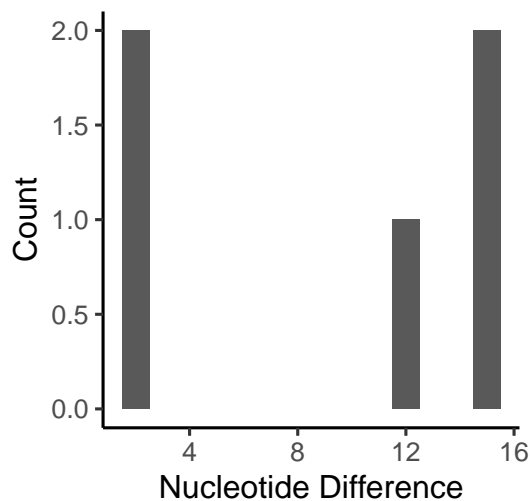
IGHV3-30*04

507 sequences assigned
19 (3.7%) exact matches, in which:
19 unique CDR3
4 unique J



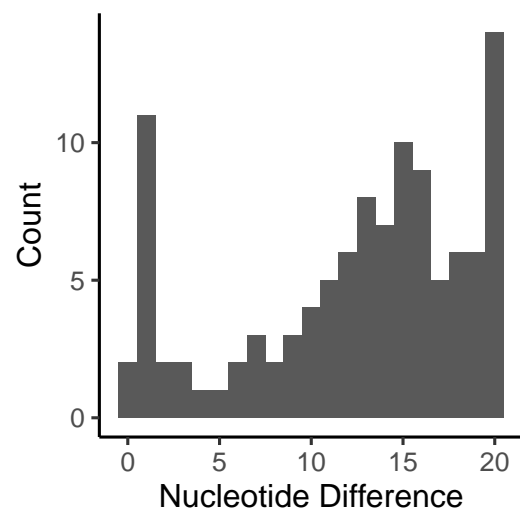
IGHV3-43*01

11 sequences assigned
No exact matches.



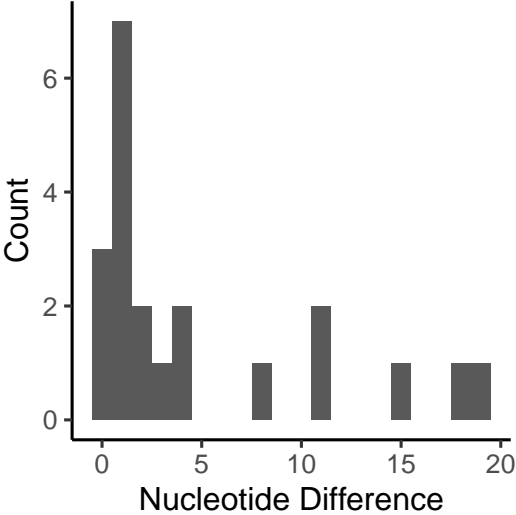
IGHV3-49*04

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



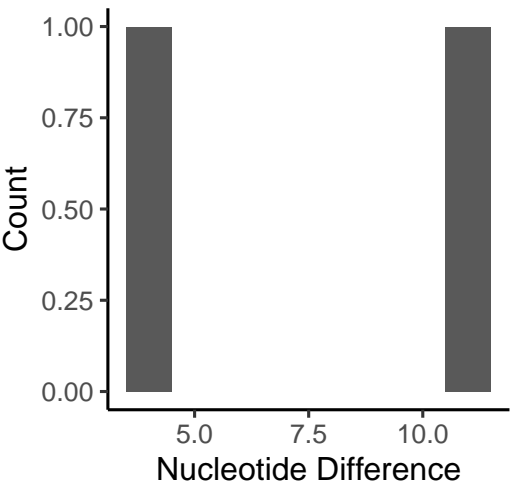
IGHV3-49*05

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



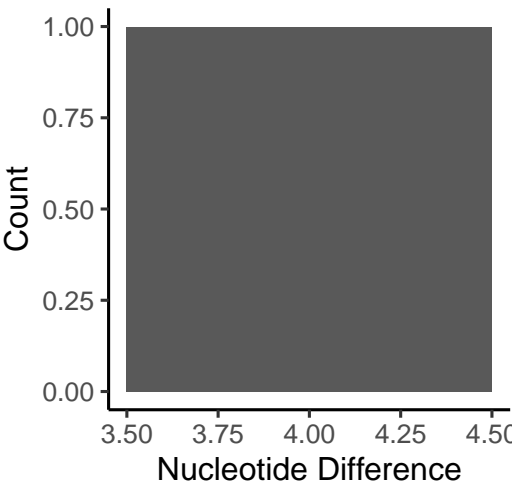
IGHV3-64*02

3 sequences assigned
No exact matches.



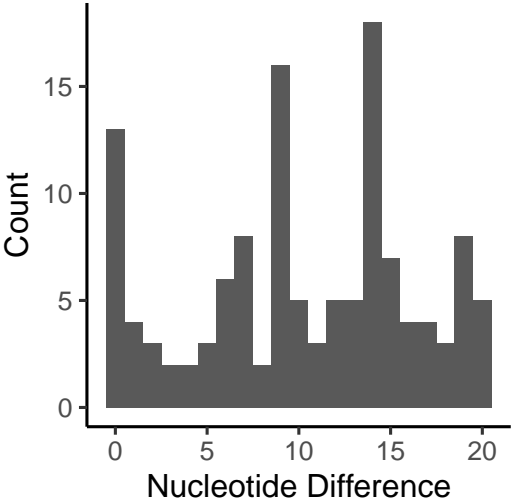
IGHV3-66*04

1 sequences assigned
No exact matches.



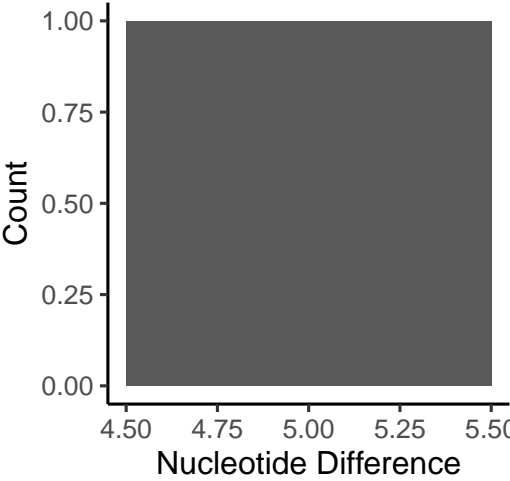
IGHV3-53*01

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



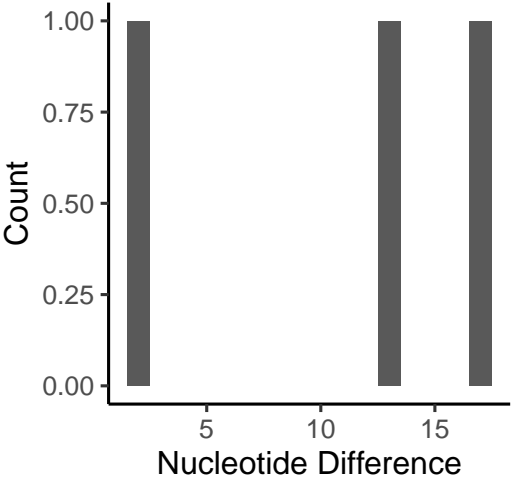
IGHV3-64*05

1 sequences assigned
No exact matches.



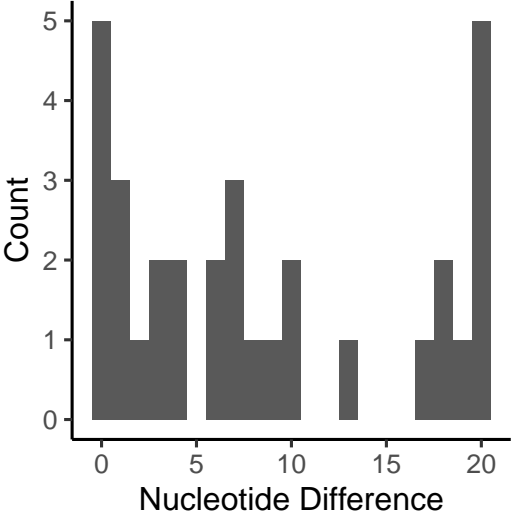
IGHV3-69-1*01

4 sequences assigned
No exact matches.



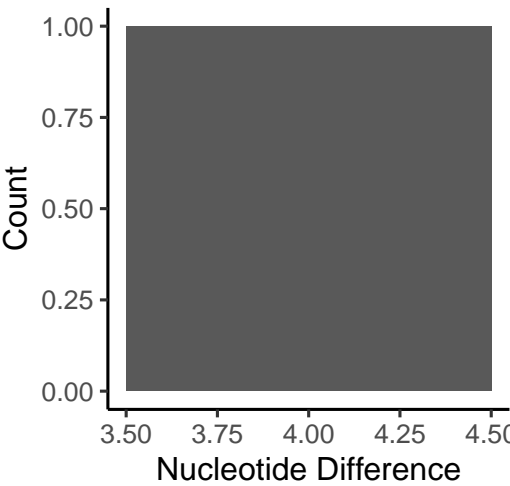
IGHV3-53*02

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



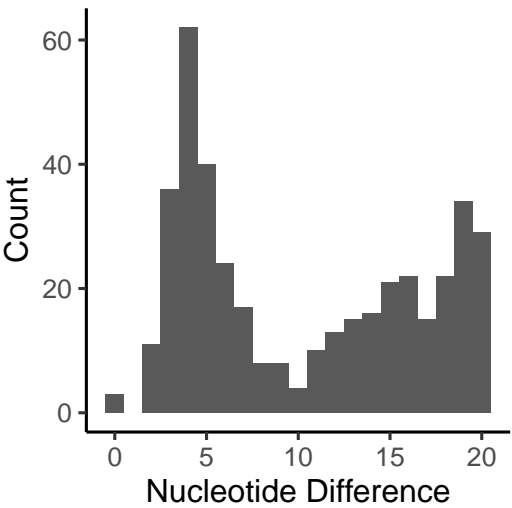
IGHV3-66*01

1 sequences assigned
No exact matches.



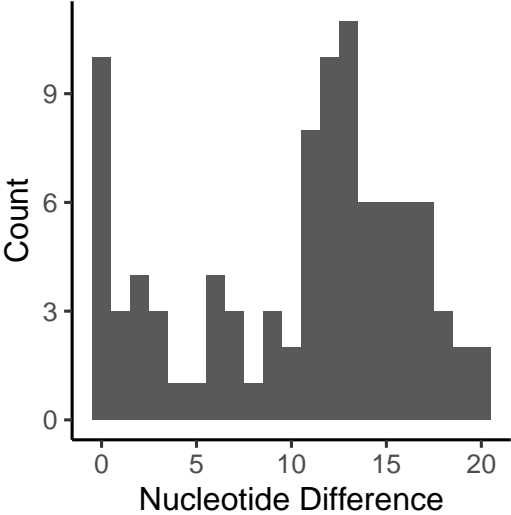
IGHV3-72*01

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



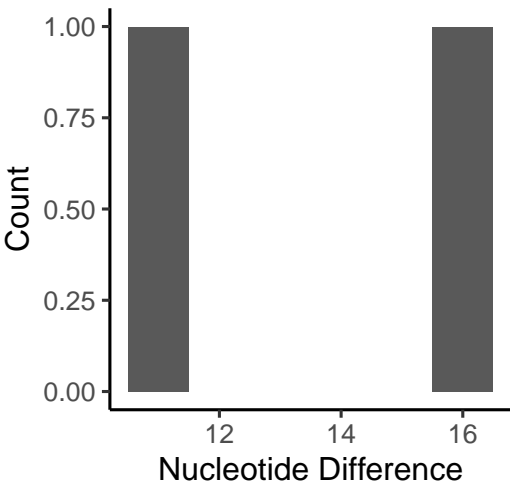
IGHV3-73*02

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



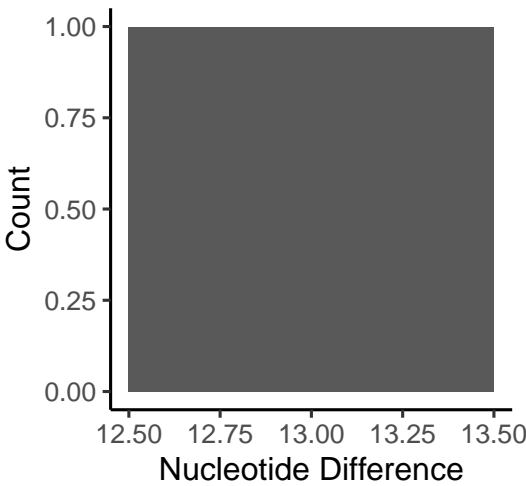
IGHV3-43D*04

7 sequences assigned
No exact matches.



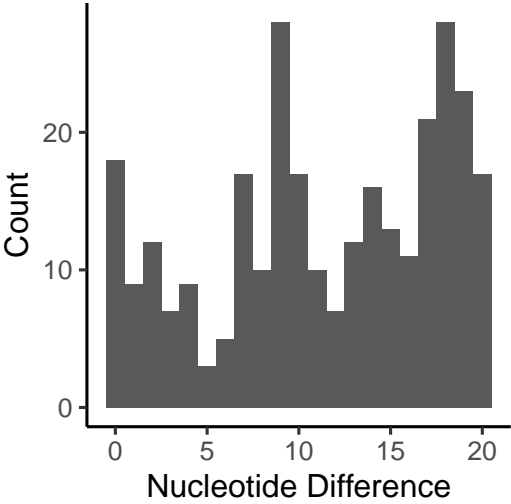
IGHV4-28*01

1 sequences assigned
No exact matches.



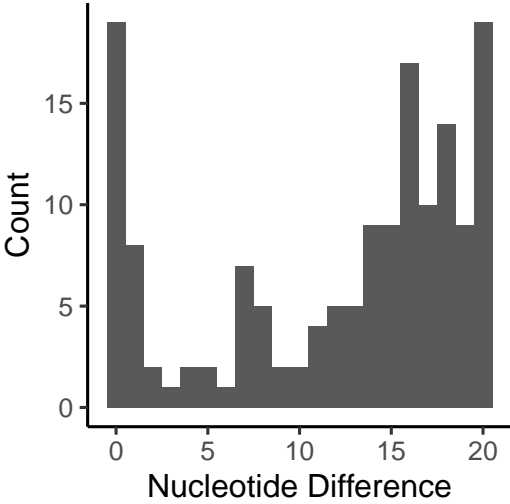
IGHV3-74*01

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



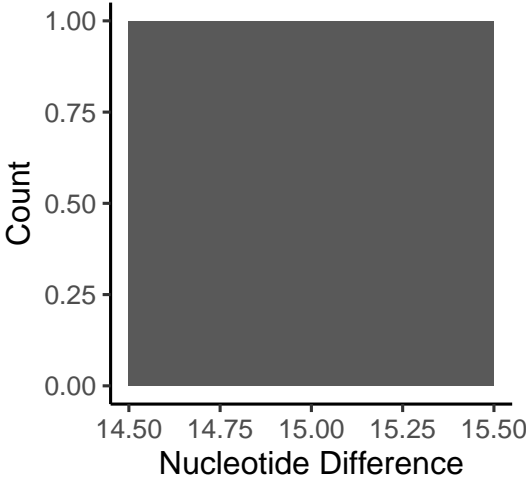
IGHV4-4*02

318 sequences assigned
19 (6%) exact matches, in which:
19 unique CDR3
5 unique J



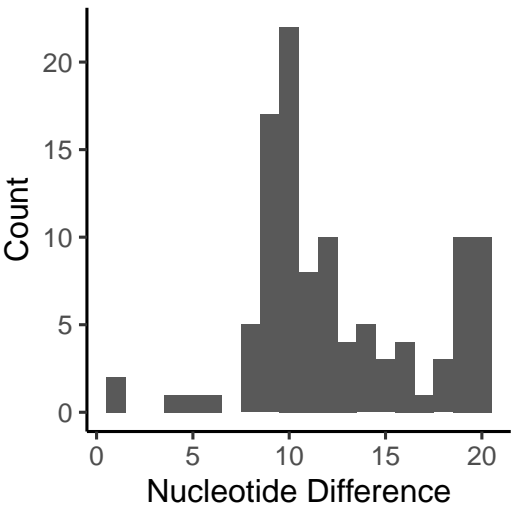
IGHV4-28*05

1 sequences assigned
No exact matches.



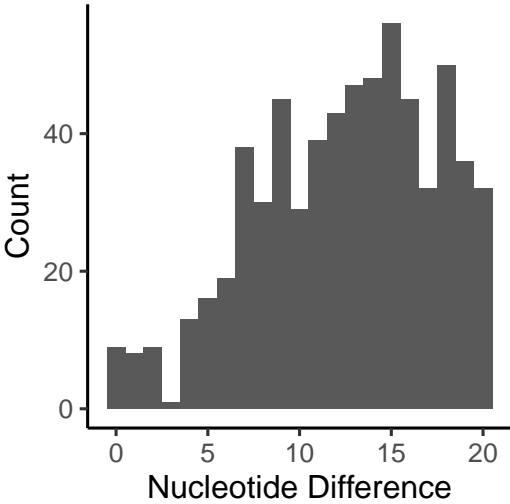
IGHV3-74*03

144 sequences assigned
No exact matches.



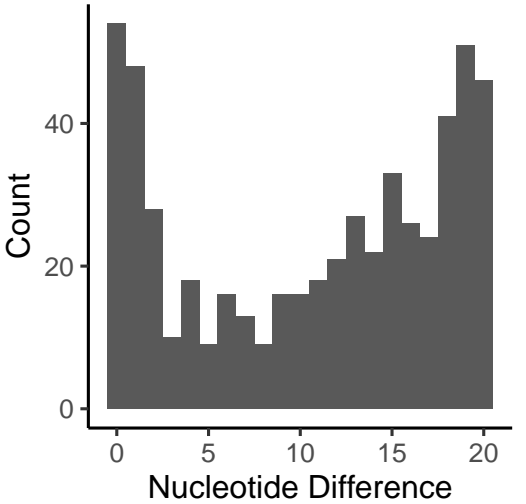
IGHV4-4*07

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



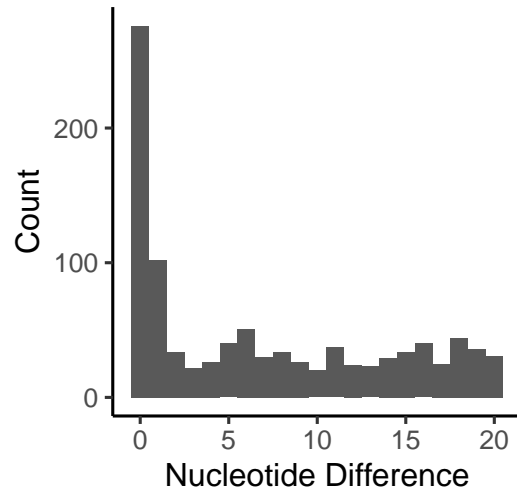
IGHV4-31*03

1004 sequences assigned
54 (5.4%) exact matches, in which:
50 unique CDR3
6 unique J



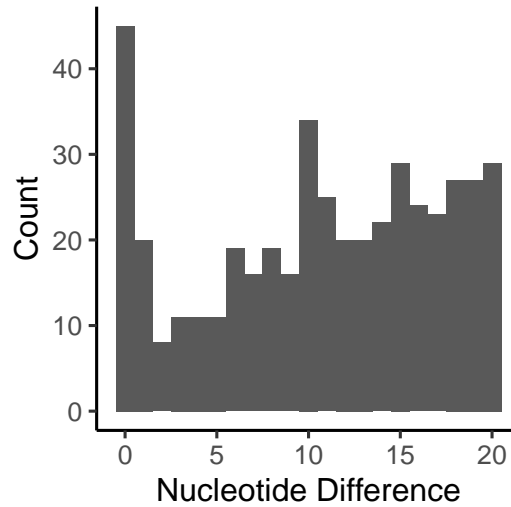
IGHV4-34*01

1593 sequences assigned
276 (17.3%) exact matches, in which:
267 unique CDR3
7 unique J



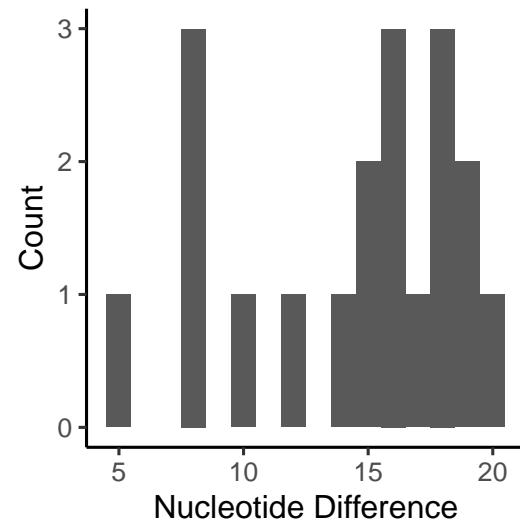
IGHV4-39*01

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



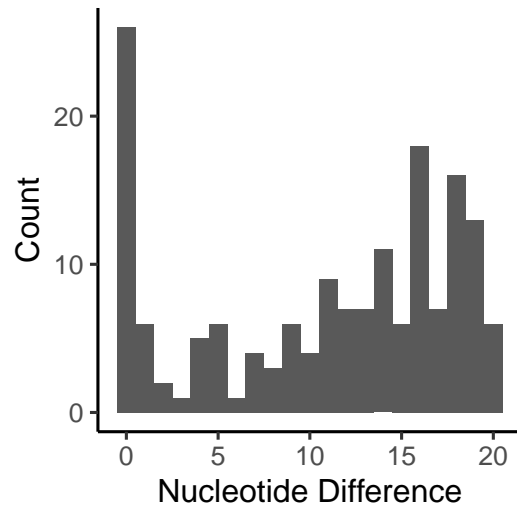
IGHV4-61*08

47 sequences assigned
No exact matches.



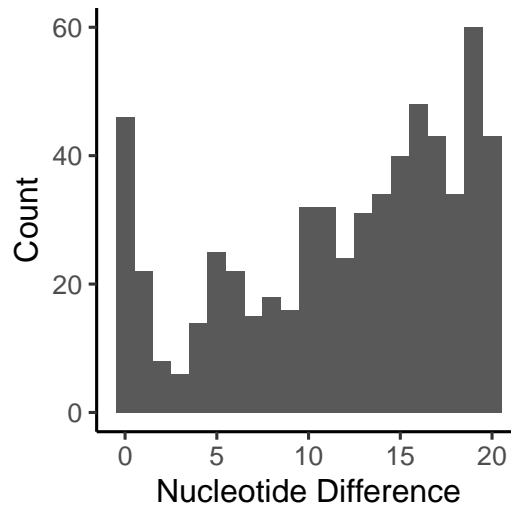
IGHV4-38-2*01

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



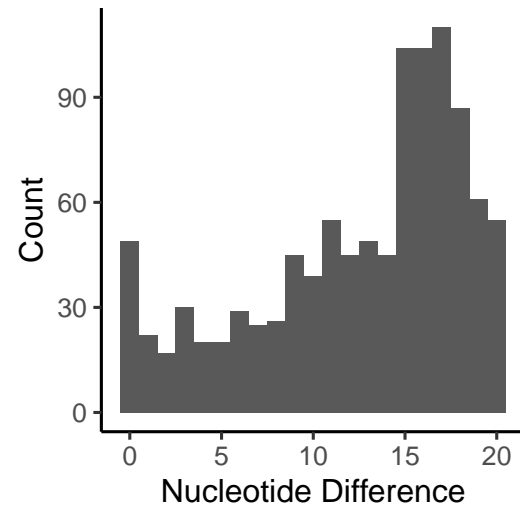
IGHV4-59*01

981 sequences assigned
46 (4.7%) exact matches, in which:
46 unique CDR3
6 unique J



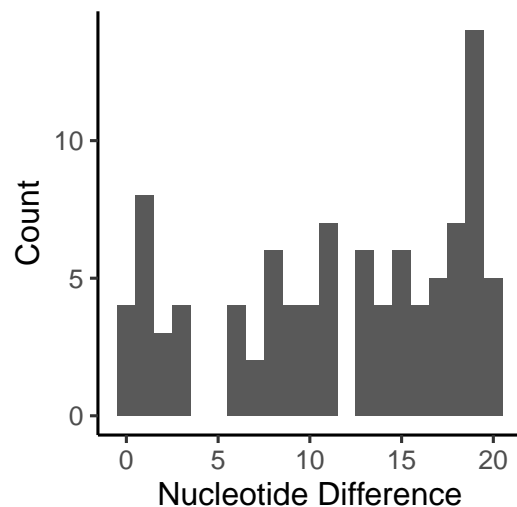
IGHV5-51*01

1369 sequences assigned
49 (3.6%) exact matches, in which:
47 unique CDR3
6 unique J



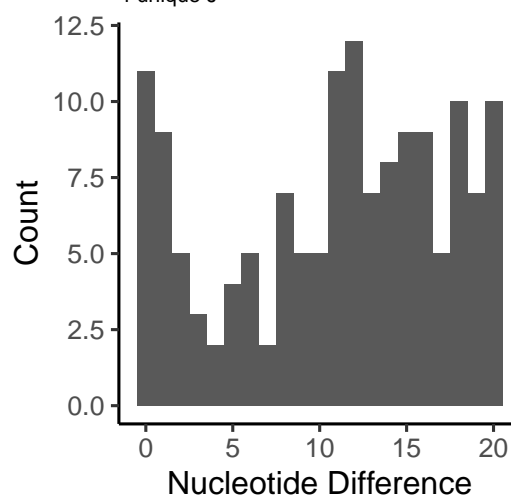
IGHV4-38-2*02

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



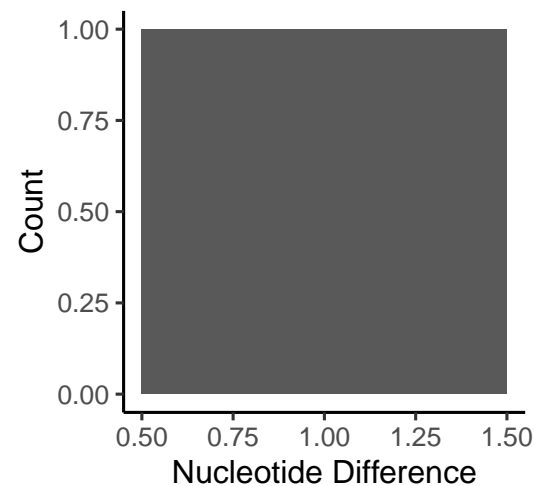
IGHV4-61*01

252 sequences assigned
11 (4.4%) exact matches, in which:
11 unique CDR3
4 unique J



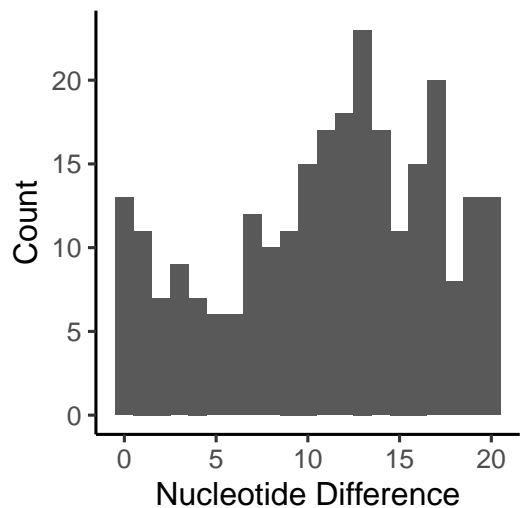
IGHV5-78*01

1 sequences assigned
No exact matches.



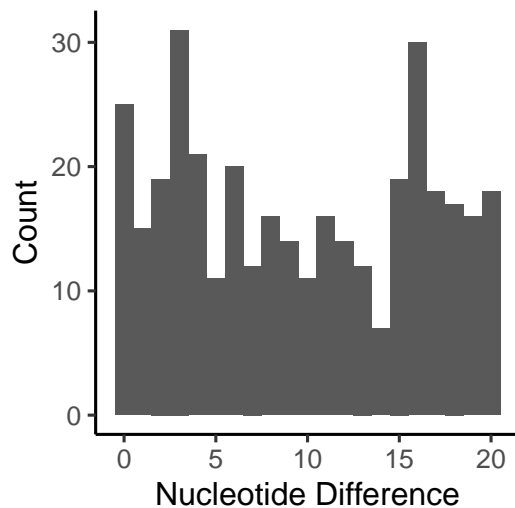
IGHV6-1*01

328 sequences assigned
13 (4%) exact matches, in which:
13 unique CDR3
5 unique J



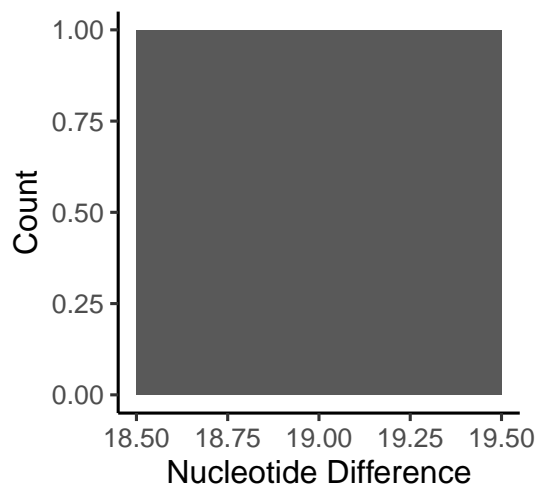
IGHV7-4-1*02

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



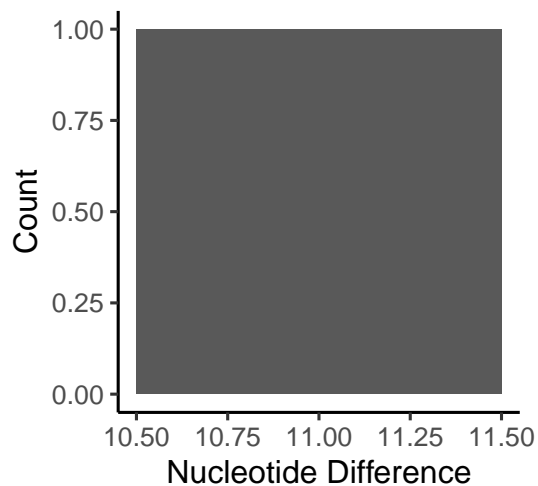
IGHV3/OR16-9*01

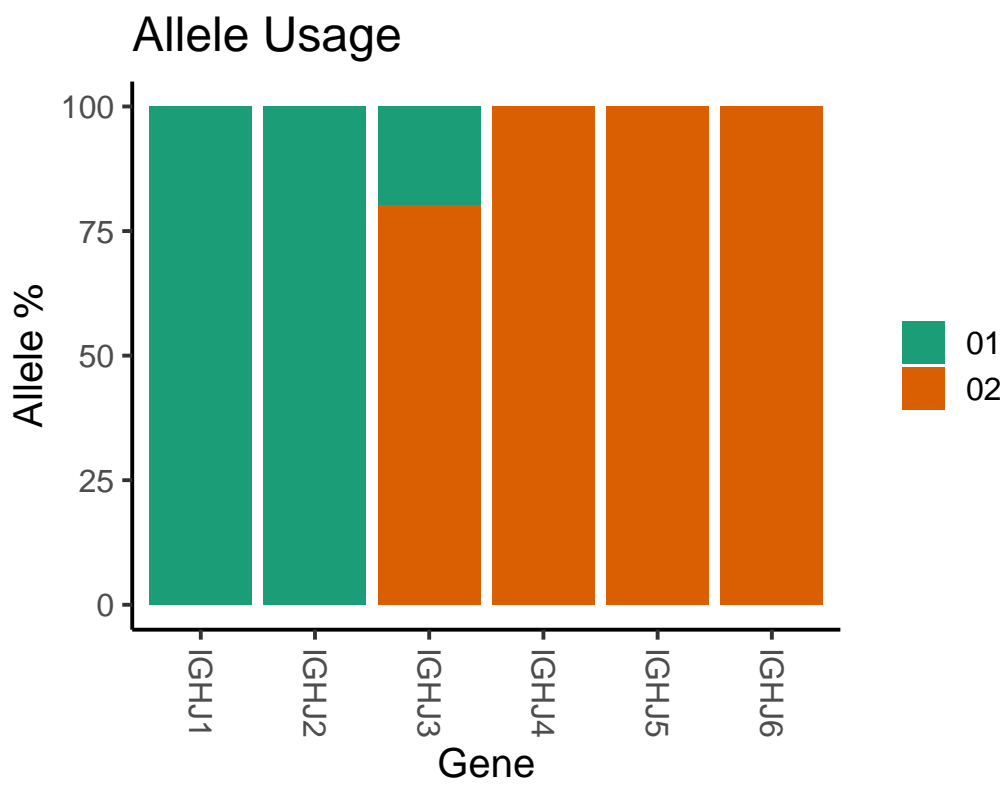
1 sequences assigned
No exact matches.



IGHV3/OR16-12*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.