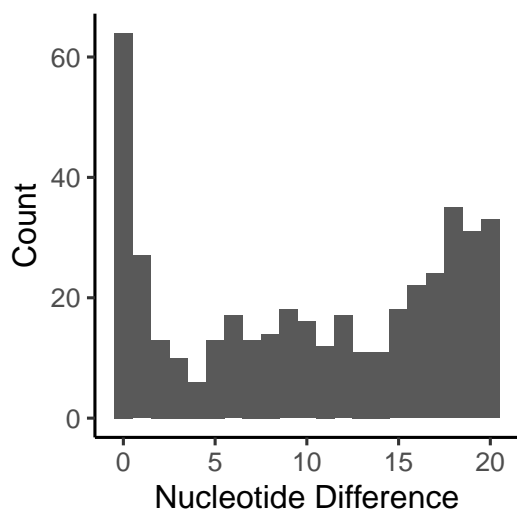


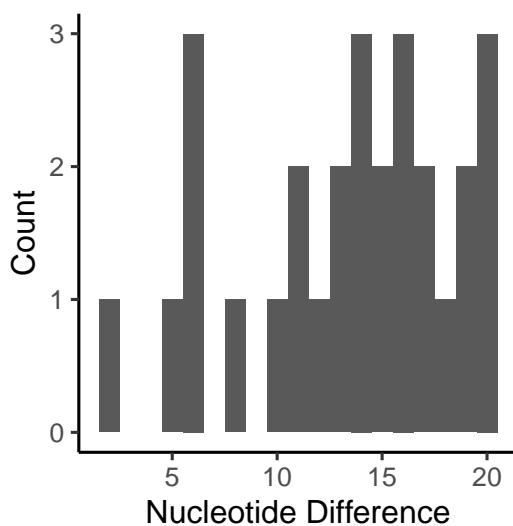
IGHV1-2*02

732 sequences assigned
64 (8.7%) exact matches, in which:
62 unique CDR3
6 unique J



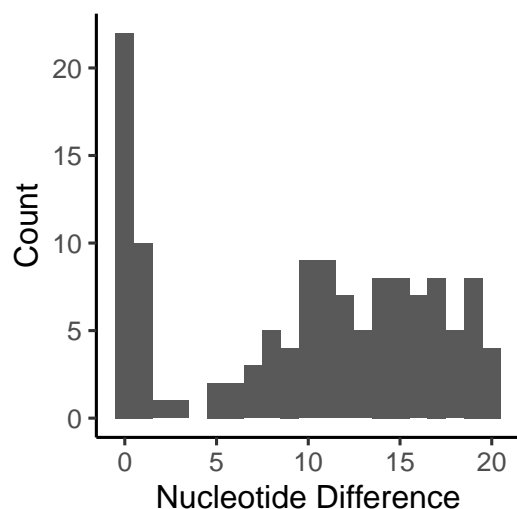
IGHV1-3*04

63 sequences assigned
No exact matches.



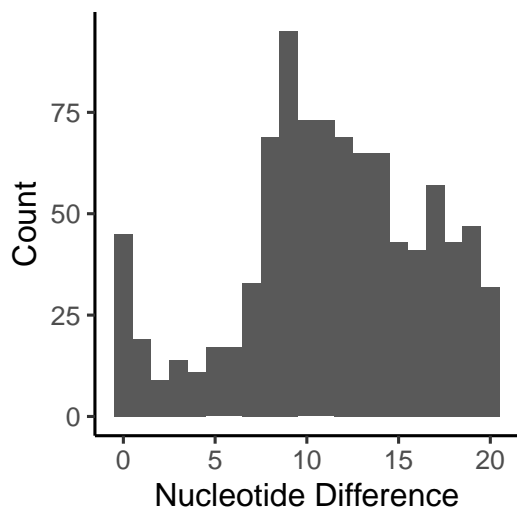
IGHV1-24*01

163 sequences assigned
22 (13.5%) exact matches, in which:
21 unique CDR3
4 unique J



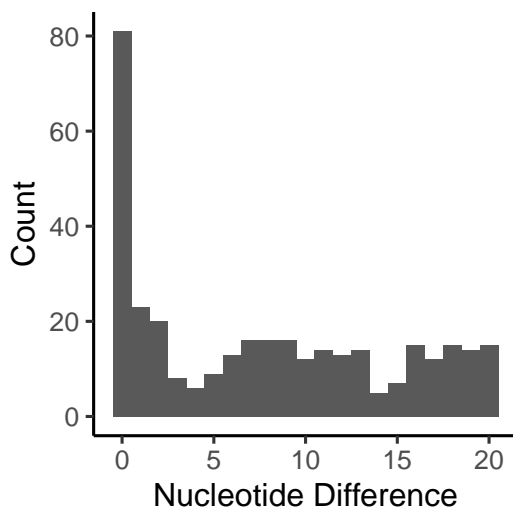
IGHV1-2*06

1221 sequences assigned
45 (3.7%) exact matches, in which:
45 unique CDR3
5 unique J



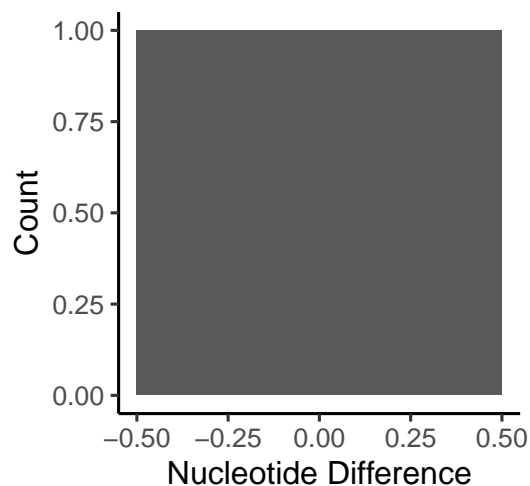
IGHV1-8*01

533 sequences assigned
81 (15.2%) exact matches, in which:
81 unique CDR3
6 unique J



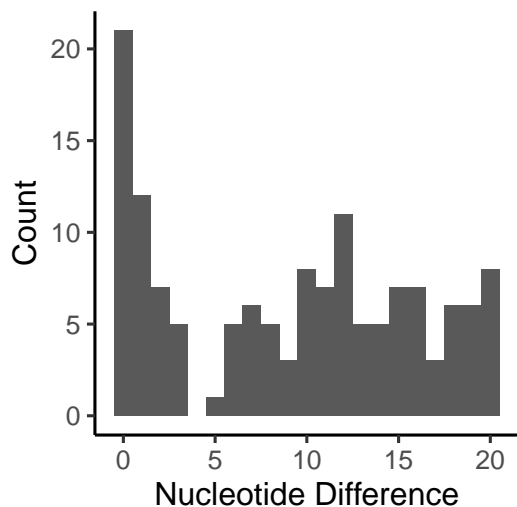
IGHV1-45*02

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



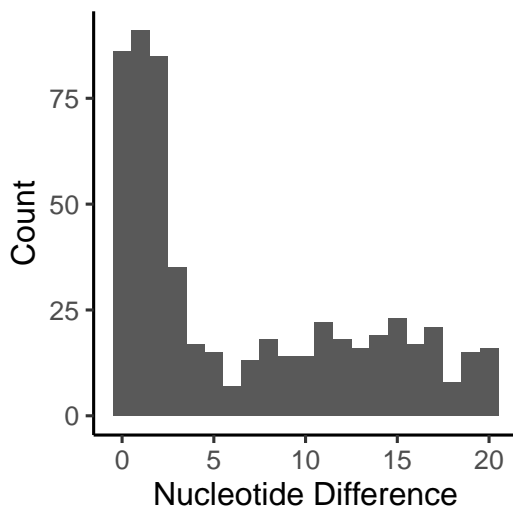
IGHV1-3*01

277 sequences assigned
21 (7.6%) exact matches, in which:
20 unique CDR3
3 unique J



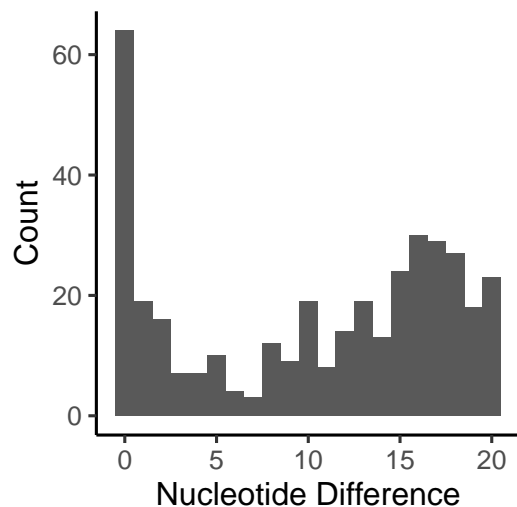
IGHV1-18*01

856 sequences assigned
86 (10%) exact matches, in which:
73 unique CDR3
5 unique J



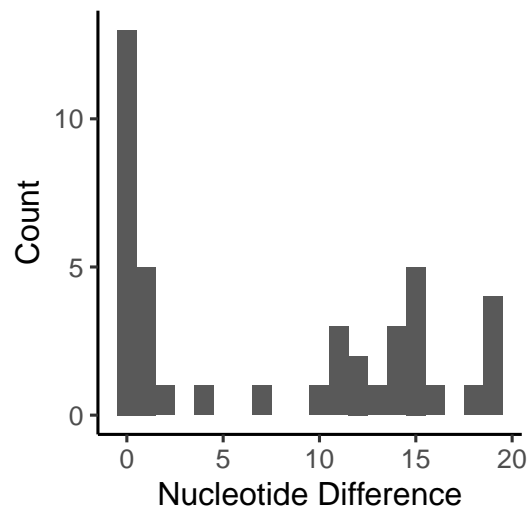
IGHV1-46*01

1146 sequences assigned
64 (5.6%) exact matches, in which:
62 unique CDR3
4 unique J



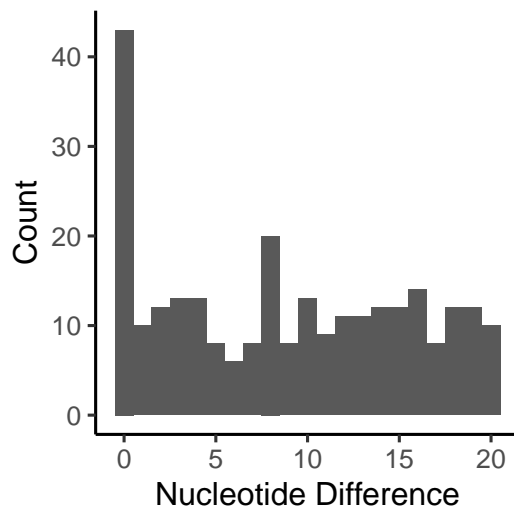
IGHV1-58*01

82 sequences assigned
13 (15.9%) exact matches, in which:
13 unique CDR3
6 unique J



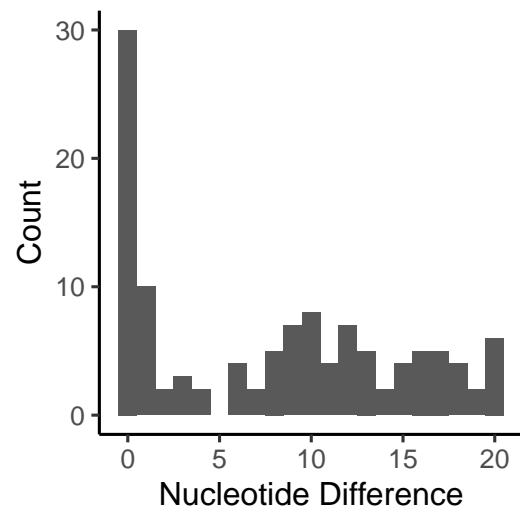
IGHV2-5*01

347 sequences assigned
43 (12.4%) exact matches, in which:
43 unique CDR3
6 unique J



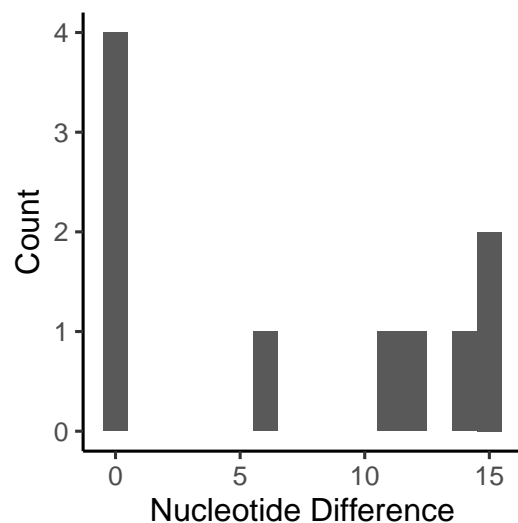
IGHV2-70*01

158 sequences assigned
30 (19%) exact matches, in which:
30 unique CDR3
6 unique J



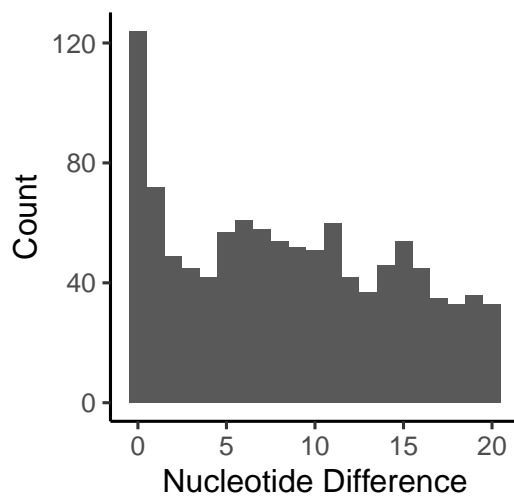
IGHV1-69-2*01

35 sequences assigned
4 (11.4%) exact matches, in which:
4 unique CDR3
3 unique J



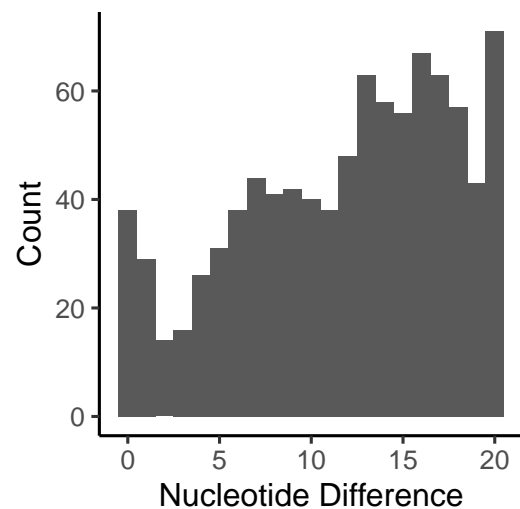
IGHV2-5*02

1402 sequences assigned
124 (8.8%) exact matches, in which:
123 unique CDR3
6 unique J



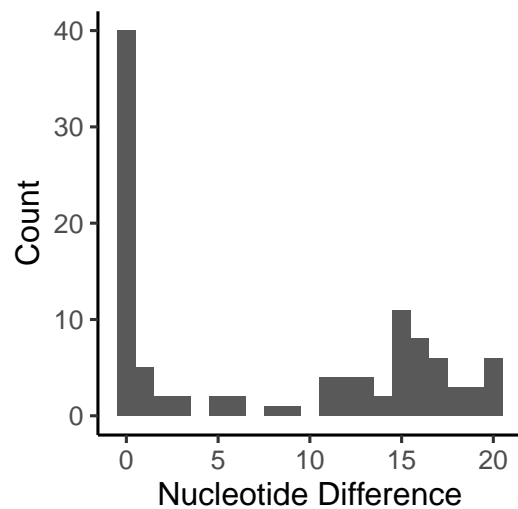
IGHV3-7*01

1415 sequences assigned
38 (2.7%) exact matches, in which:
37 unique CDR3
5 unique J



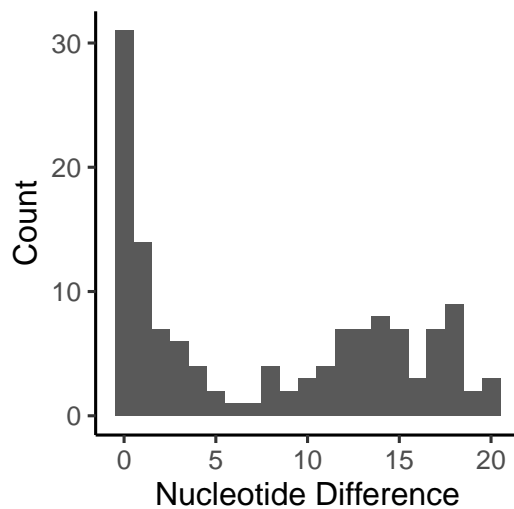
IGHV1-69*17

177 sequences assigned
40 (22.6%) exact matches, in which:
40 unique CDR3
6 unique J



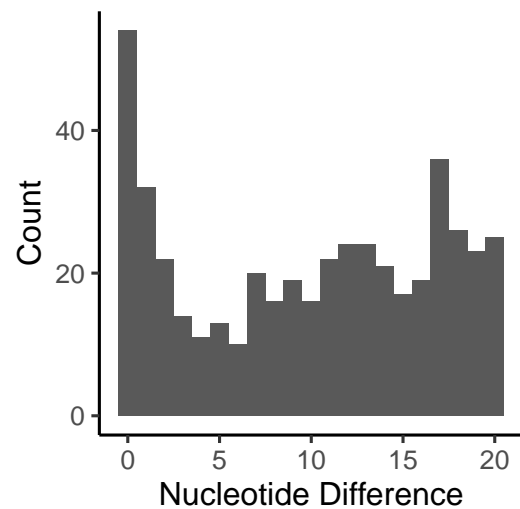
IGHV2-26*01

176 sequences assigned
31 (17.6%) exact matches, in which:
31 unique CDR3
5 unique J



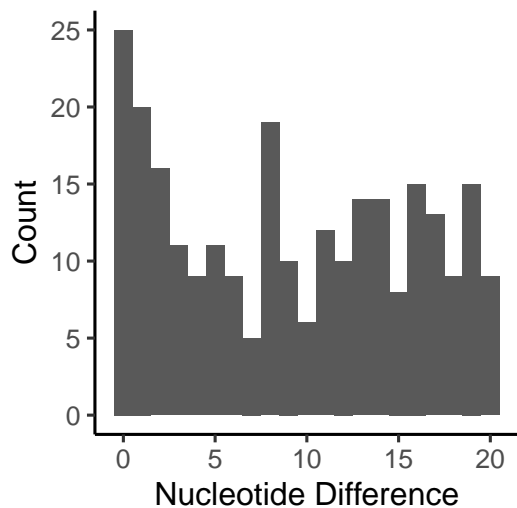
IGHV3-9*01

741 sequences assigned
54 (7.3%) exact matches, in which:
54 unique CDR3
5 unique J



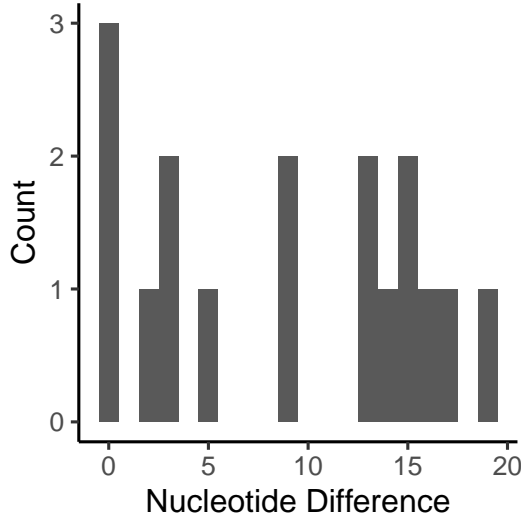
IGHV3-11*01

469 sequences assigned
25 (5.3%) exact matches, in which:
25 unique CDR3
4 unique J



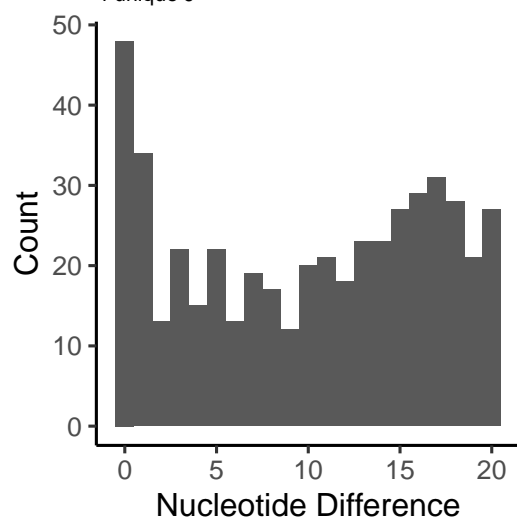
IGHV3-20*01

22 sequences assigned
3 (13.6%) exact matches, in which:
3 unique CDR3
2 unique J



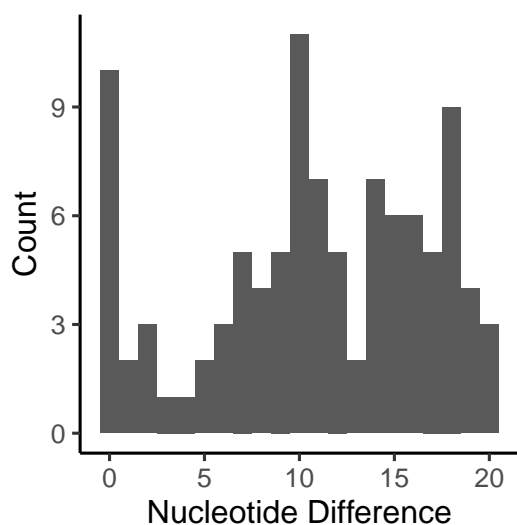
IGHV3-33*01

833 sequences assigned
48 (5.8%) exact matches, in which:
48 unique CDR3
4 unique J



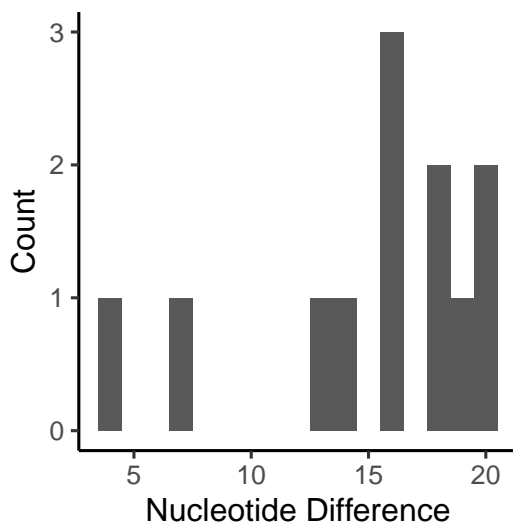
IGHV3-13*01

173 sequences assigned
10 (5.8%) exact matches, in which:
10 unique CDR3
3 unique J



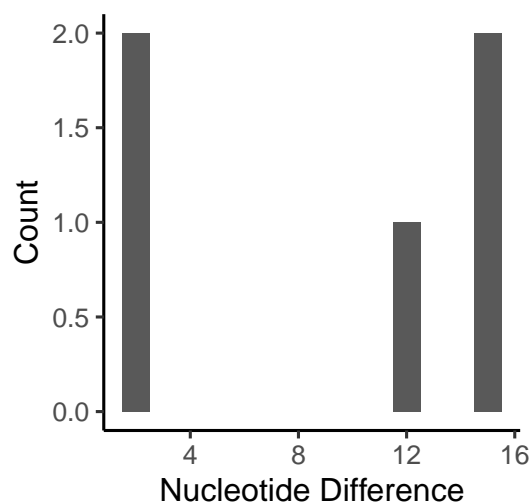
IGHV3-20*04

38 sequences assigned
No exact matches.



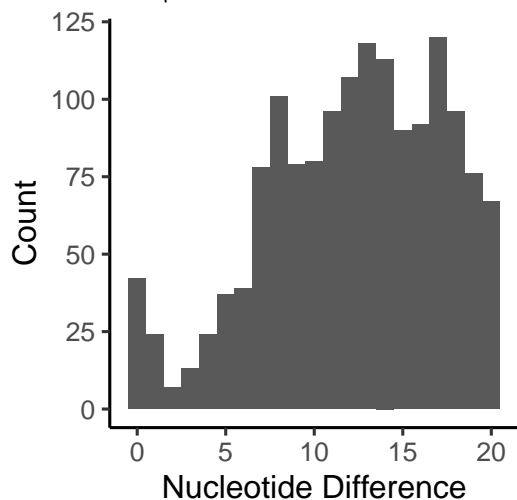
IGHV3-43*01

12 sequences assigned
No exact matches.



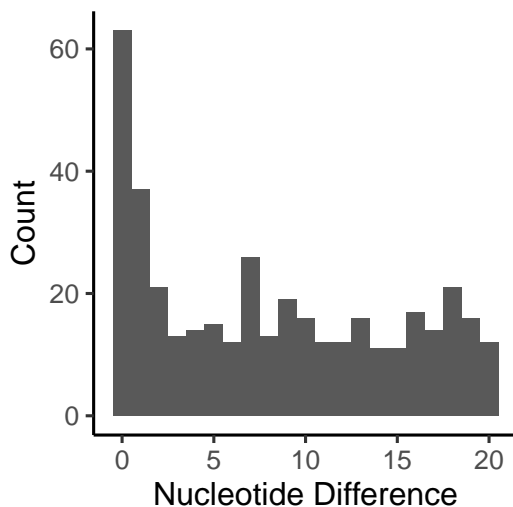
IGHV3-15*01

2167 sequences assigned
42 (1.9%) exact matches, in which:
42 unique CDR3
5 unique J



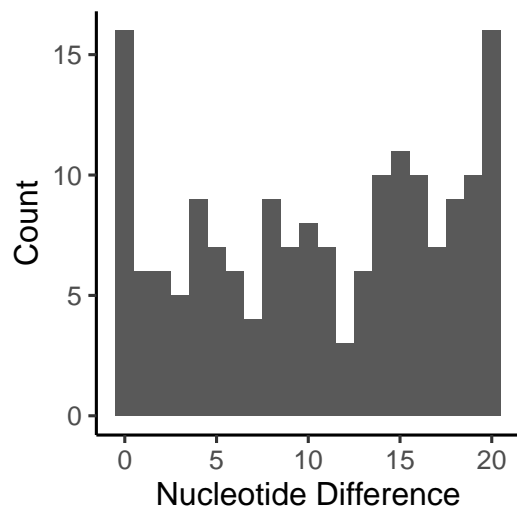
IGHV3-21*01

689 sequences assigned
63 (9.1%) exact matches, in which:
62 unique CDR3
6 unique J



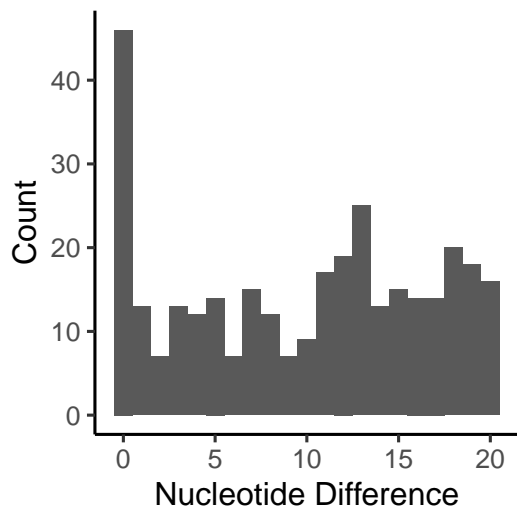
IGHV3-48*02

259 sequences assigned
16 (6.2%) exact matches, in which:
16 unique CDR3
5 unique J



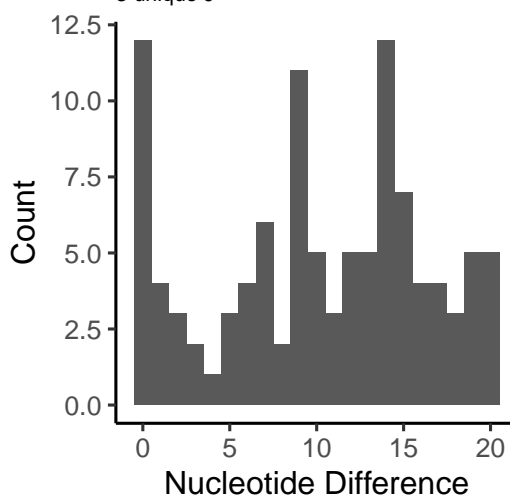
IGHV3-48*03

482 sequences assigned
46 (9.5%) exact matches, in which:
46 unique CDR3
5 unique J



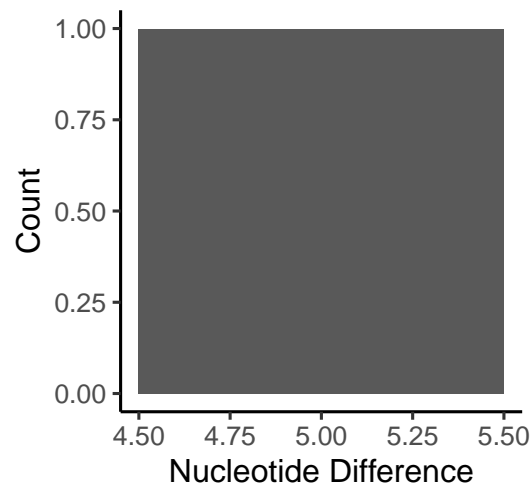
IGHV3-53*01

193 sequences assigned
12 (6.2%) exact matches, in which:
12 unique CDR3
3 unique J



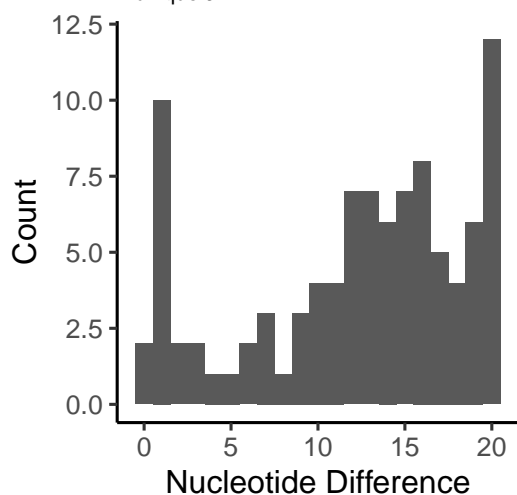
IGHV3-64*05

1 sequences assigned
No exact matches.



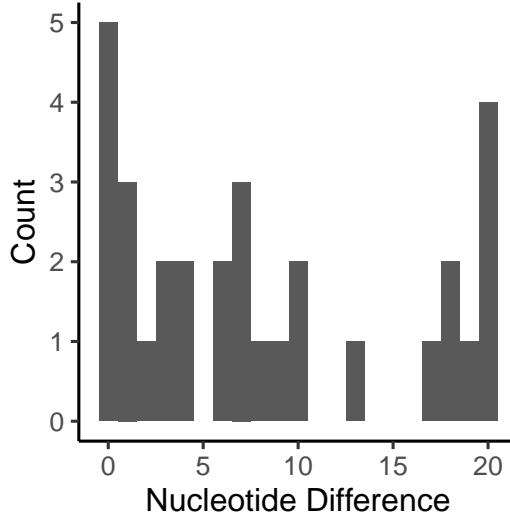
IGHV3-49*04

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



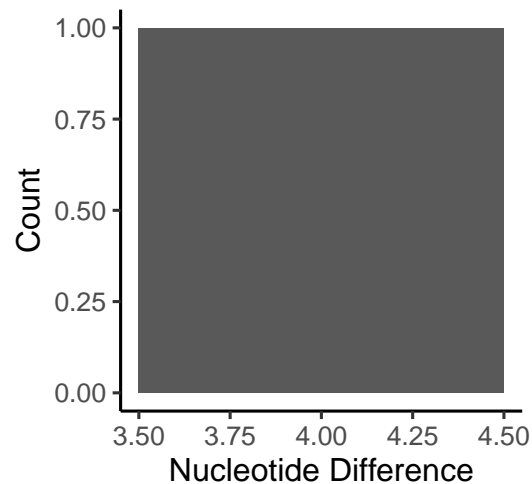
IGHV3-53*02

46 sequences assigned
5 (10.9%) exact matches, in which:
5 unique CDR3
2 unique J



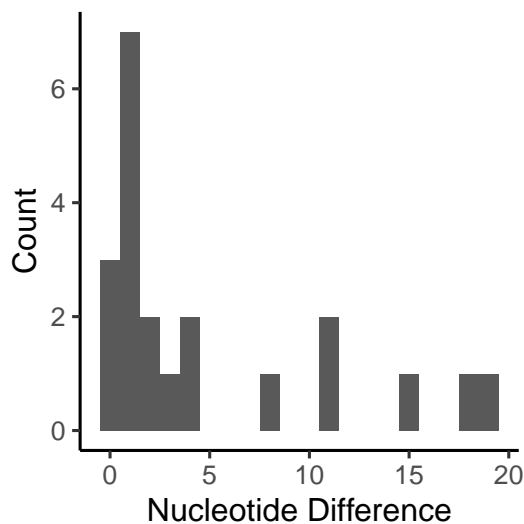
IGHV3-66*01

1 sequences assigned
No exact matches.



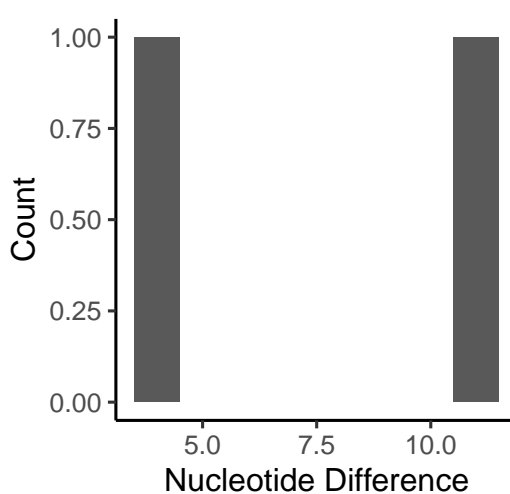
IGHV3-49*05

44 sequences assigned
3 (6.8%) exact matches, in which:
3 unique CDR3
2 unique J



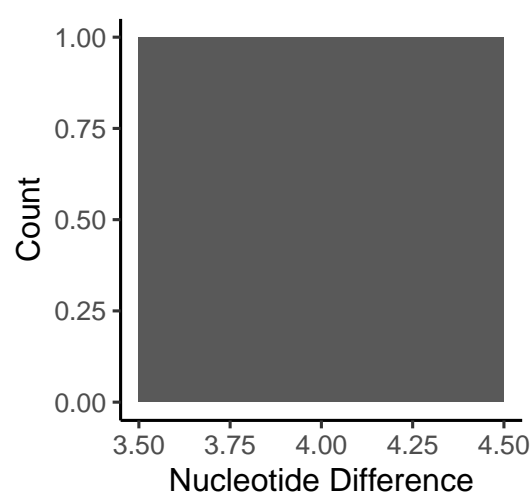
IGHV3-64*02

3 sequences assigned
No exact matches.



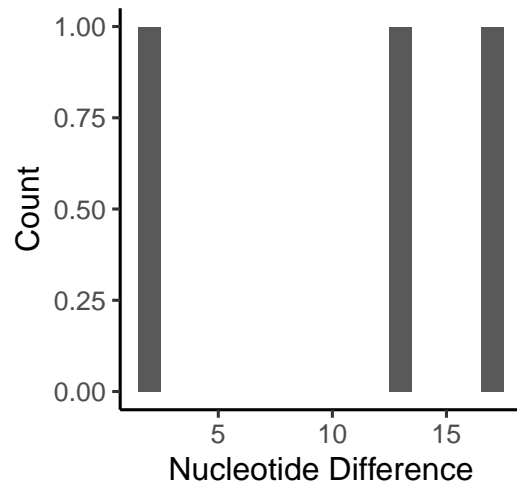
IGHV3-66*04

1 sequences assigned
No exact matches.



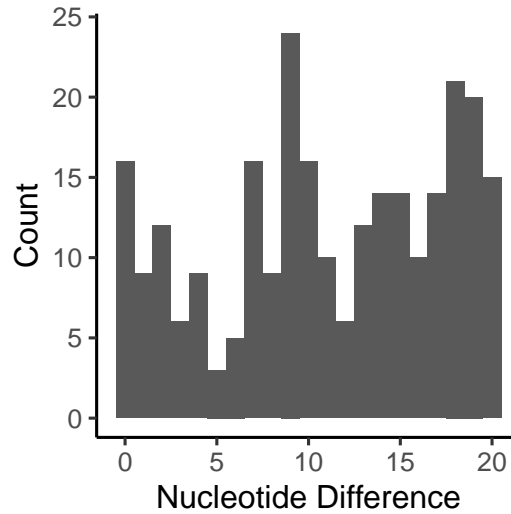
IGHV3-69-1*01

4 sequences assigned
No exact matches.



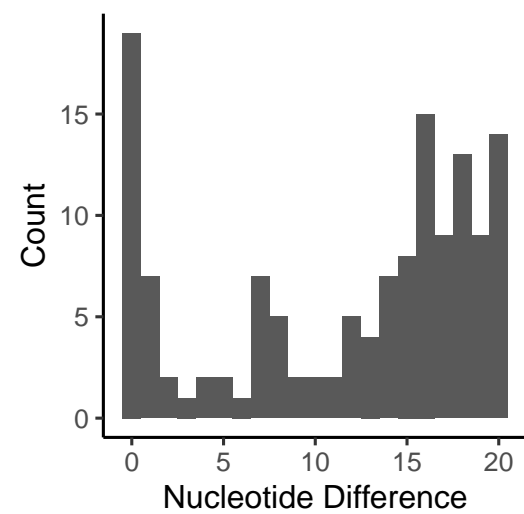
IGHV3-74*01

359 sequences assigned
16 (4.5%) exact matches, in which:
15 unique CDR3
4 unique J



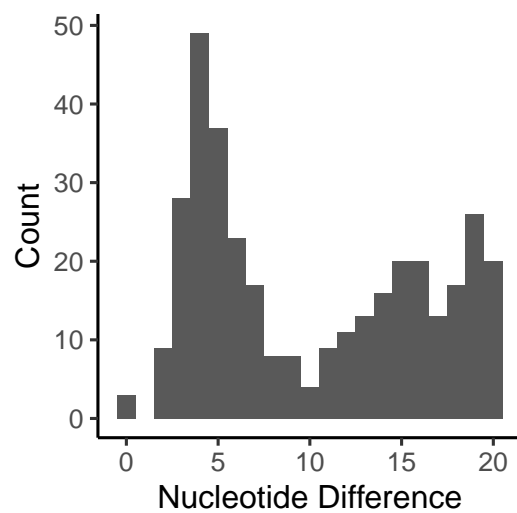
IGHV4-4*02

299 sequences assigned
19 (6.4%) exact matches, in which:
19 unique CDR3
5 unique J



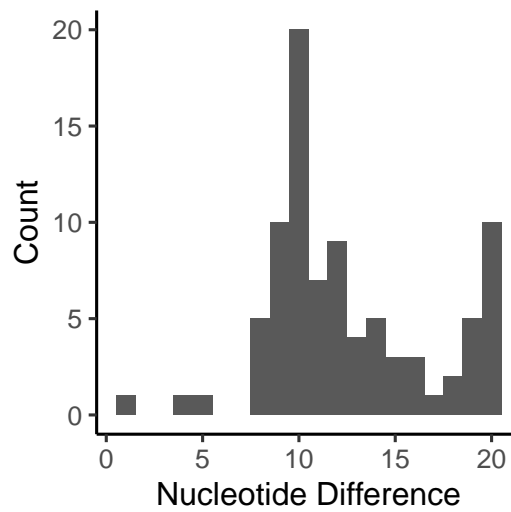
IGHV3-72*01

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



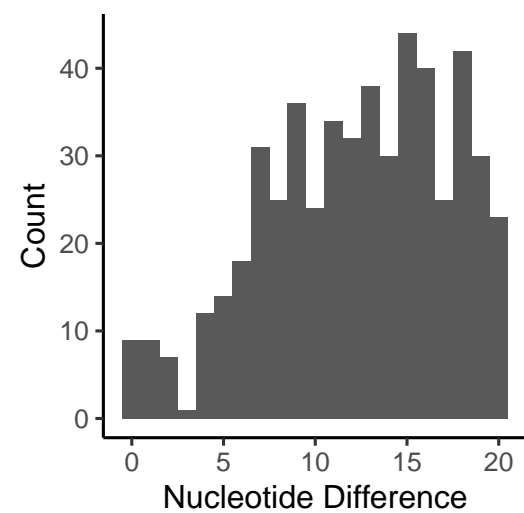
IGHV3-74*03

124 sequences assigned
No exact matches.



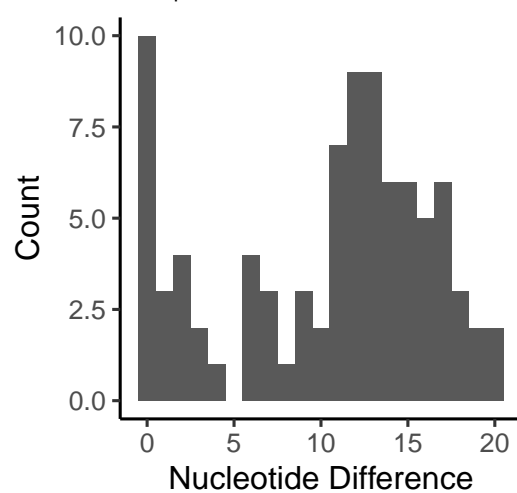
IGHV4-4*07

765 sequences assigned
9 (1.2%) exact matches, in which:
9 unique CDR3
5 unique J



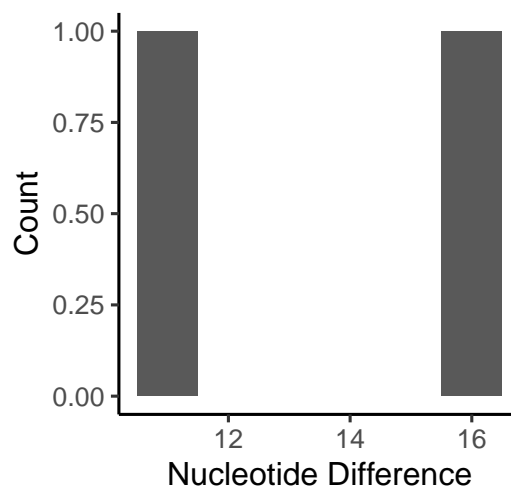
IGHV3-73*02

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



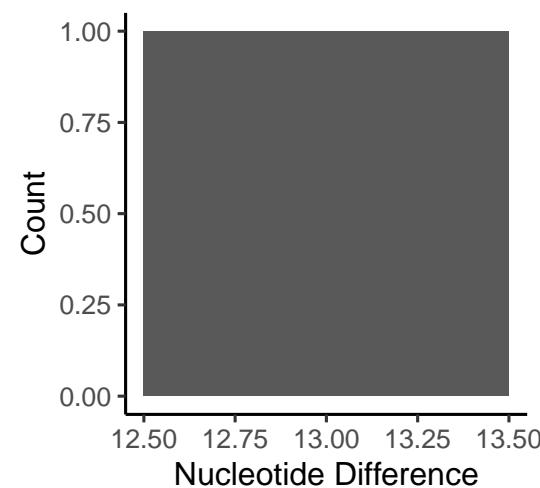
IGHV3-43D*04

7 sequences assigned
No exact matches.



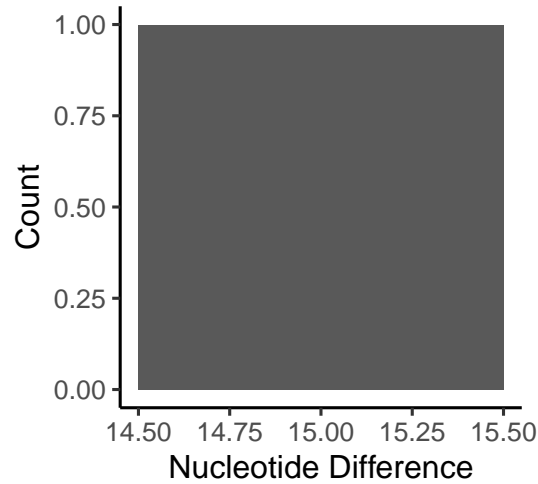
IGHV4-28*01

1 sequences assigned
No exact matches.



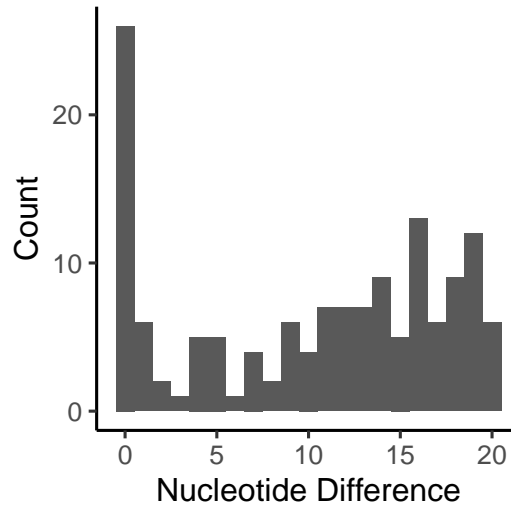
IGHV4-28*05

1 sequences assigned
No exact matches.



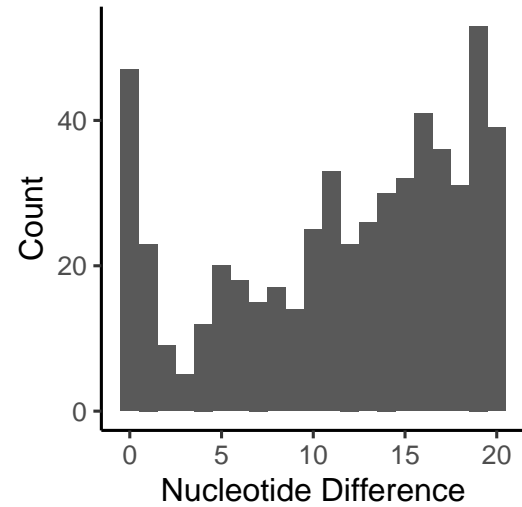
IGHV4-38-2*01

252 sequences assigned
26 (10.3%) exact matches, in which:
26 unique CDR3
4 unique J



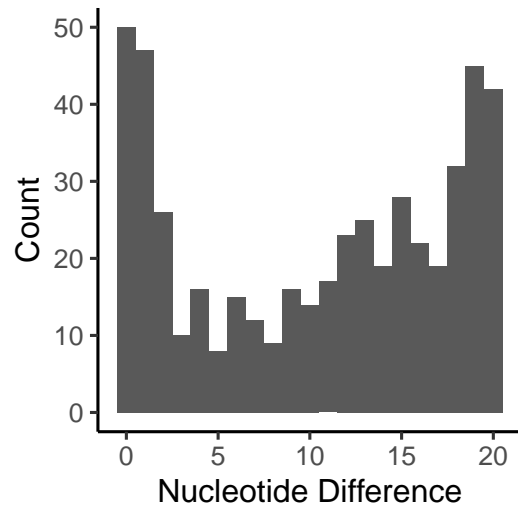
IGHV4-59*01

894 sequences assigned
47 (5.3%) exact matches, in which:
47 unique CDR3
6 unique J



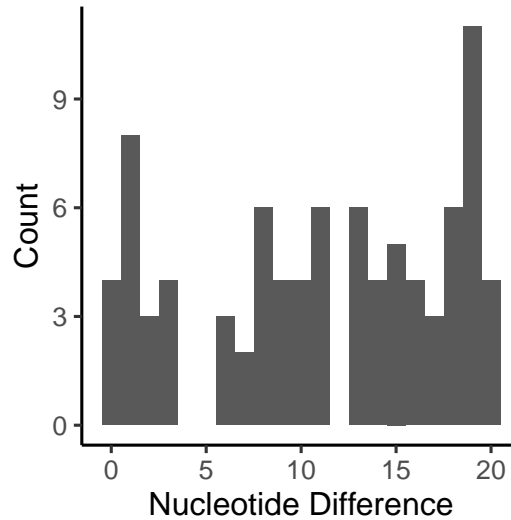
IGHV4-31*03

916 sequences assigned
50 (5.5%) exact matches, in which:
50 unique CDR3
6 unique J



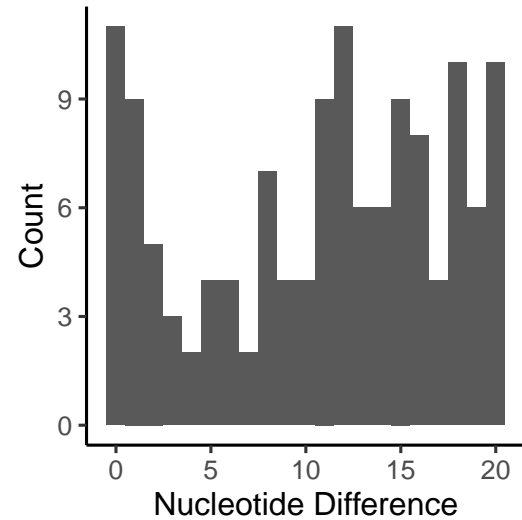
IGHV4-38-2*02

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



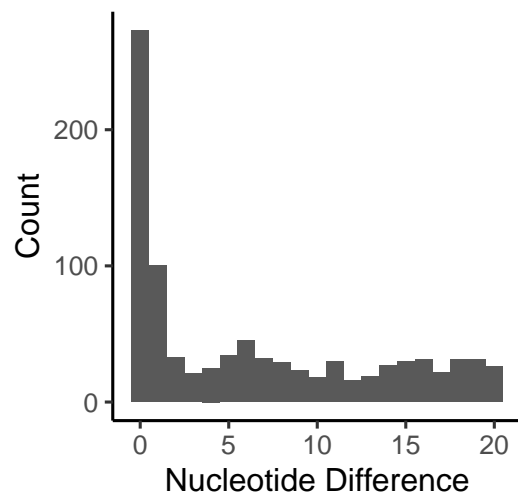
IGHV4-61*01

233 sequences assigned
11 (4.7%) exact matches, in which:
11 unique CDR3
4 unique J



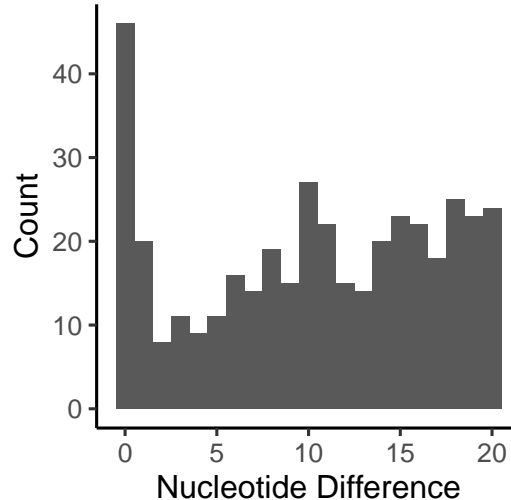
IGHV4-34*01

1415 sequences assigned
273 (19.3%) exact matches, in which:
271 unique CDR3
7 unique J



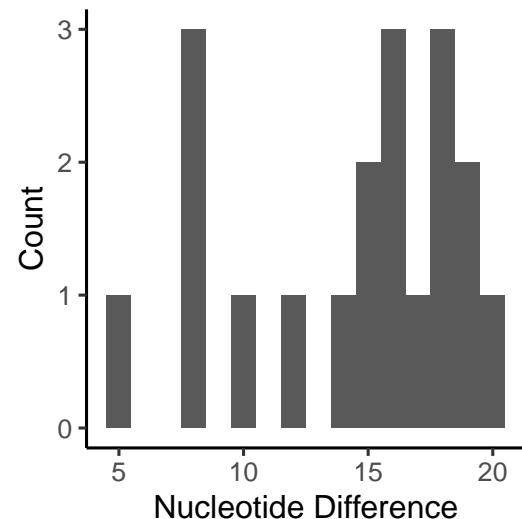
IGHV4-39*01

784 sequences assigned
46 (5.9%) exact matches, in which:
46 unique CDR3
5 unique J



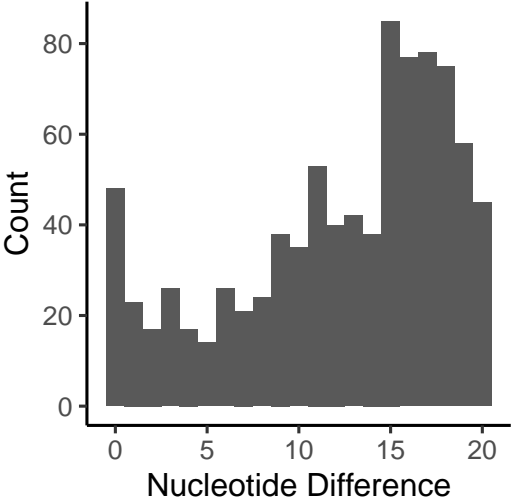
IGHV4-61*08

47 sequences assigned
No exact matches.



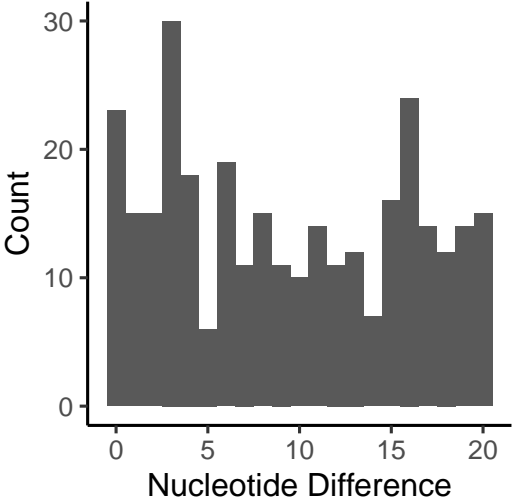
IGHV5-51*01

1193 sequences assigned
48 (4%) exact matches, in which:
47 unique CDR3
6 unique J



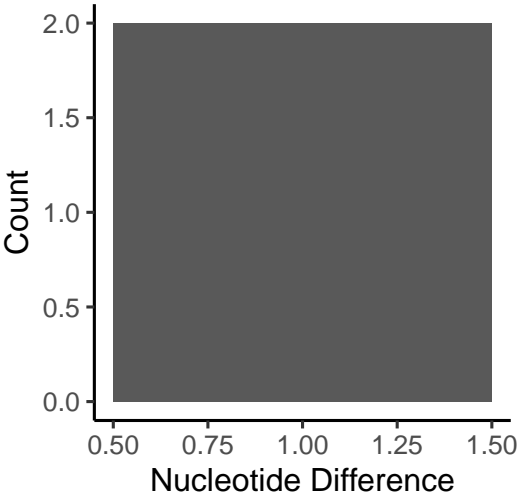
IGHV7-4-1*02

414 sequences assigned
23 (5.6%) exact matches, in which:
23 unique CDR3
3 unique J



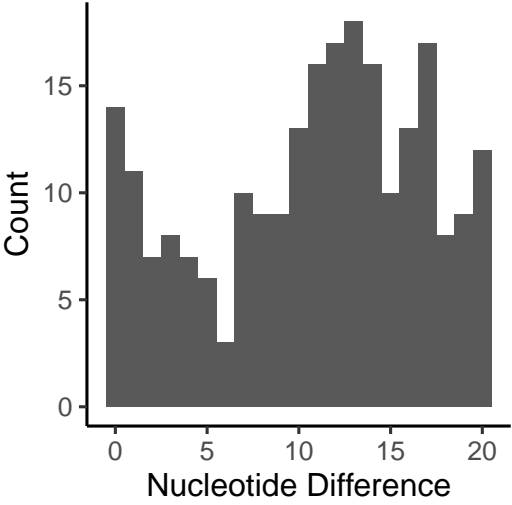
IGHV5-78*01

2 sequences assigned
No exact matches.

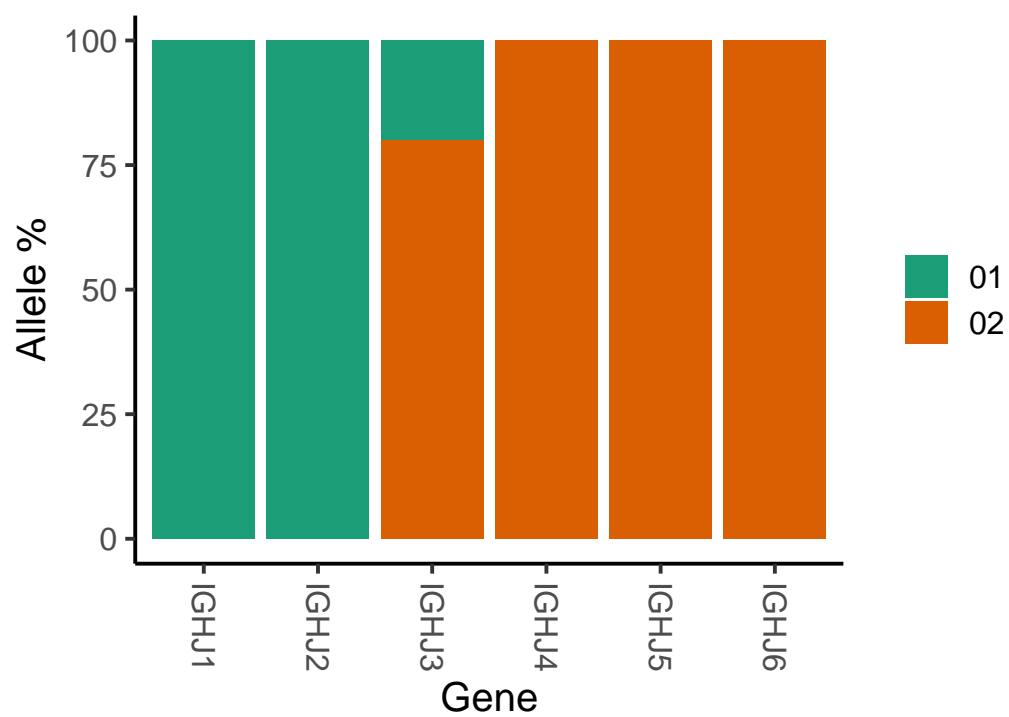


IGHV6-1*01

286 sequences assigned
14 (4.9%) exact matches, in which:
14 unique CDR3
5 unique J



Allele Usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.