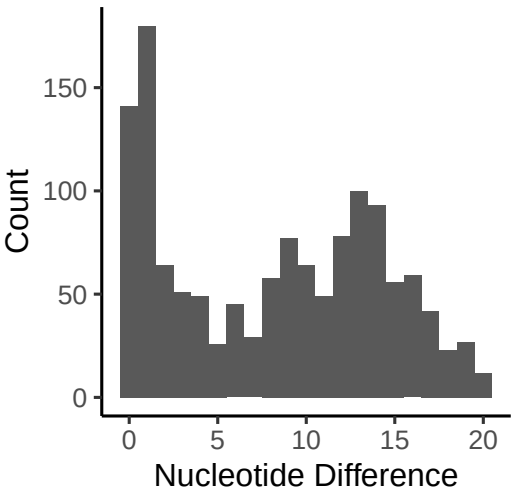
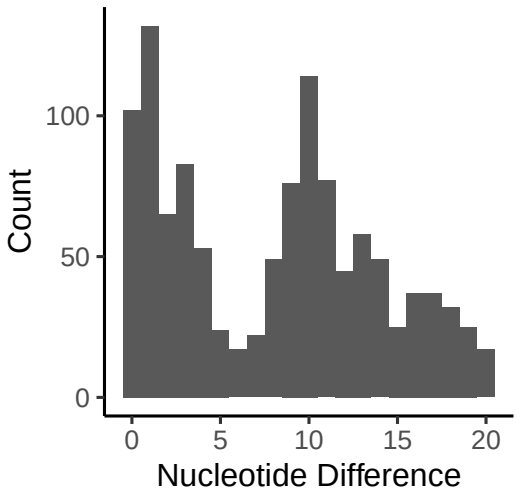
IGHV1−2*02

1749 sequences assigned
141 (8.1%) exact matches, in which:
111 unique CDR3
6 unique J



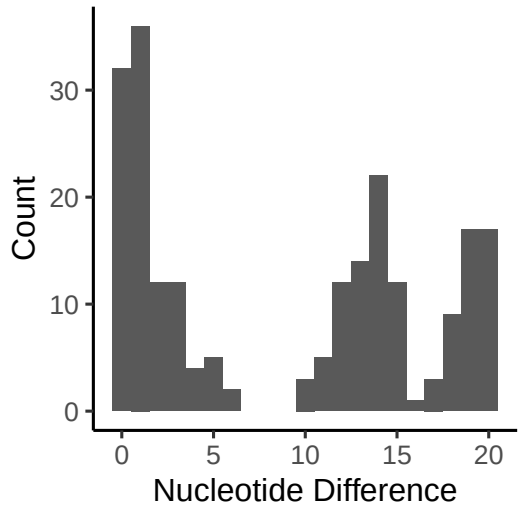
IGHV1−18*01

1430 sequences assigned
102 (7.1%) exact matches, in which:
80 unique CDR3
5 unique J



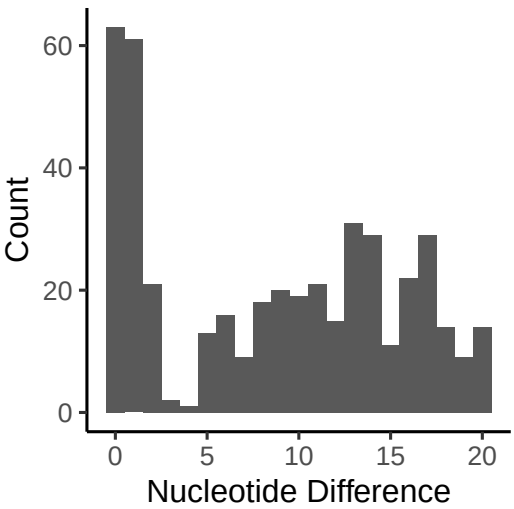
IGHV1−46*01

293 sequences assigned
32 (10.9%) exact matches, in which:
23 unique CDR3
5 unique J



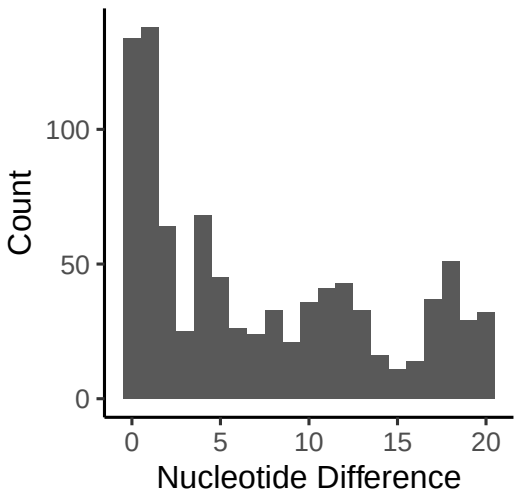
IGHV1−3*01

681 sequences assigned
63 (9.3%) exact matches, in which:
50 unique CDR3
6 unique J



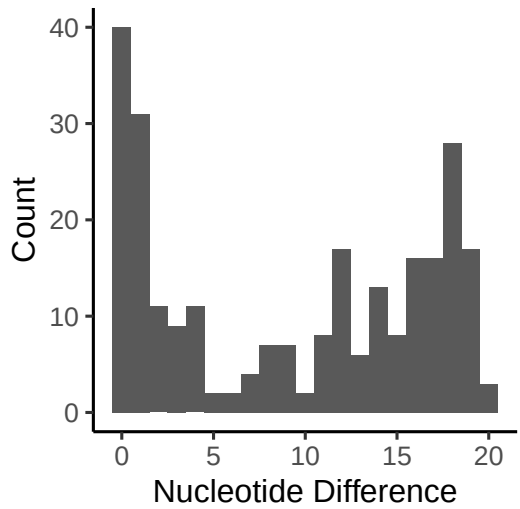
IGHV1−18*04

1184 sequences assigned
134 (11.3%) exact matches, in which:
101 unique CDR3
6 unique J



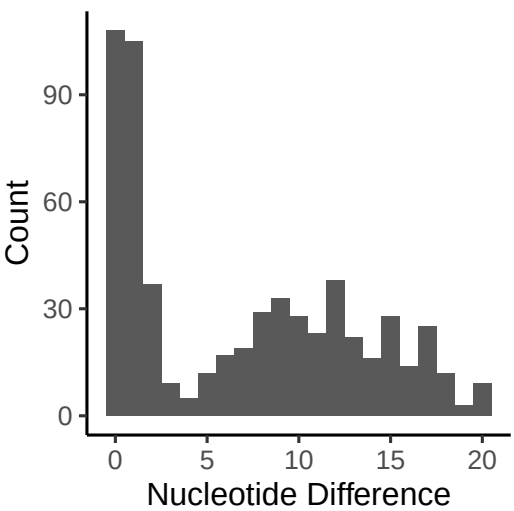
IGHV1−46*03

372 sequences assigned
40 (10.8%) exact matches, in which:
28 unique CDR3
5 unique J



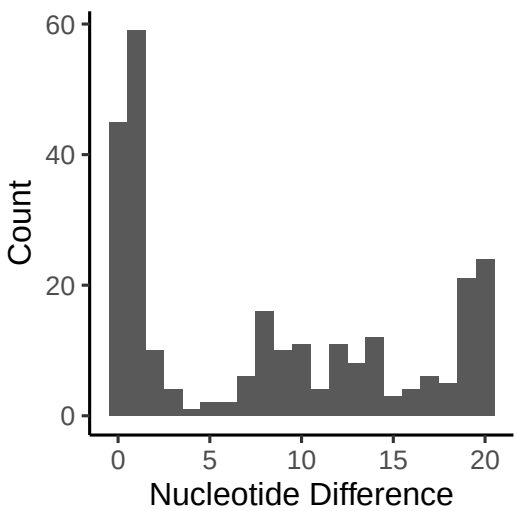
IGHV1−8*01

752 sequences assigned
108 (14.4%) exact matches, in which:
78 unique CDR3
6 unique J



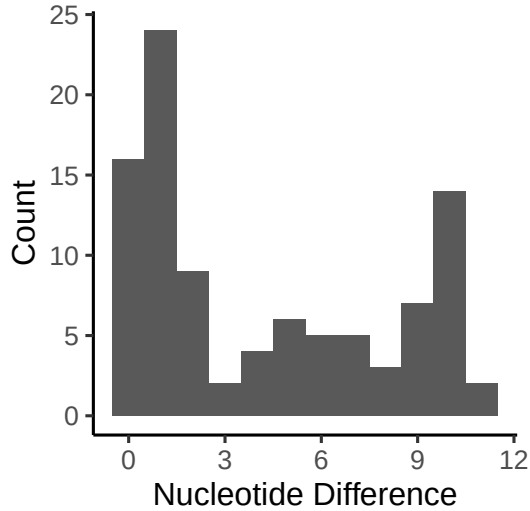
IGHV1−24*01

363 sequences assigned
45 (12.4%) exact matches, in which:
38 unique CDR3
6 unique J



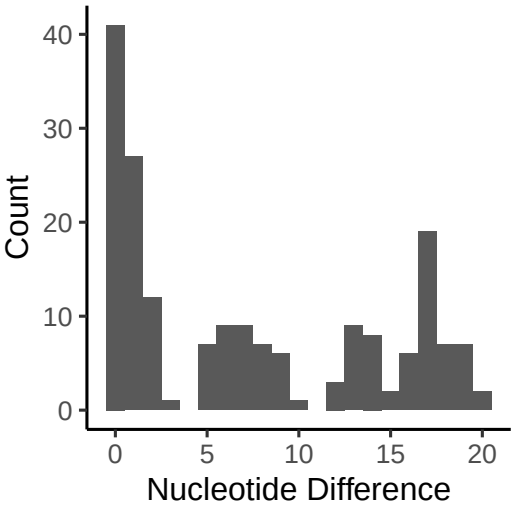
IGHV1−58*02

103 sequences assigned
16 (15.5%) exact matches, in which:
8 unique CDR3
2 unique J



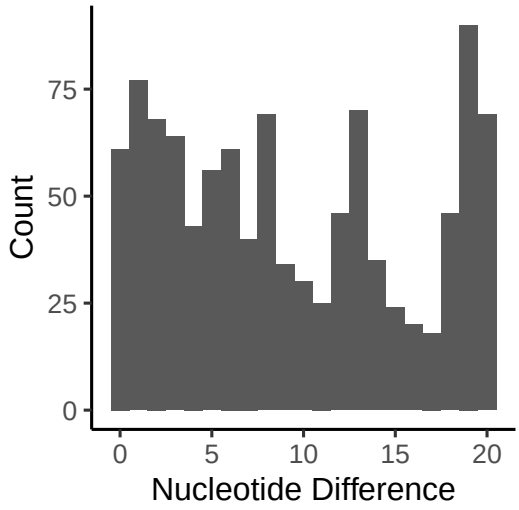
IGHV1−69*02

229 sequences assigned
41 (17.9%) exact matches, in which:
35 unique CDR3
6 unique J



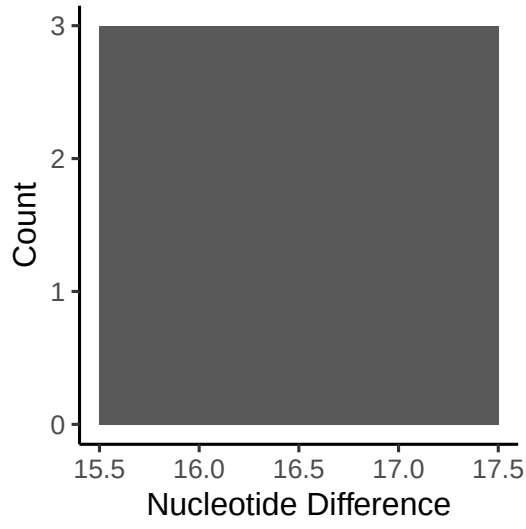
IGHV2−5*02

1183 sequences assigned
61 (5.2%) exact matches, in which:
50 unique CDR3
5 unique J



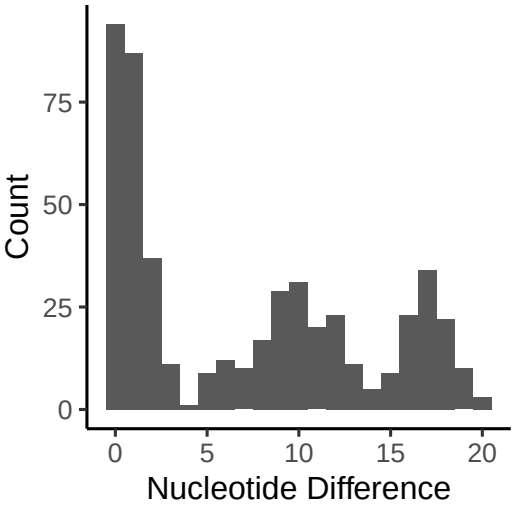
IGHV2−70D*14

6 sequences assigned
No exact matches.



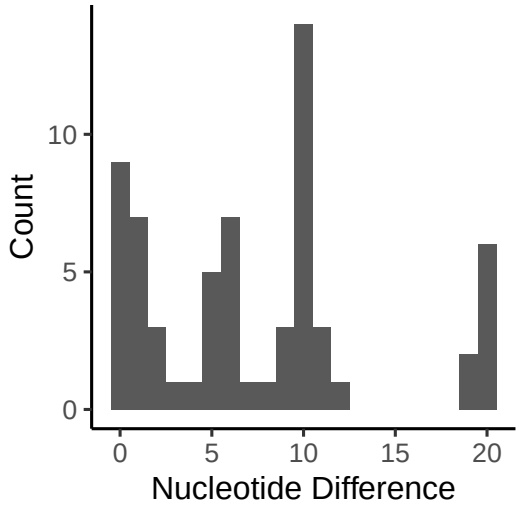
IGHV1−69*04

750 sequences assigned
94 (12.5%) exact matches, in which:
80 unique CDR3
5 unique J



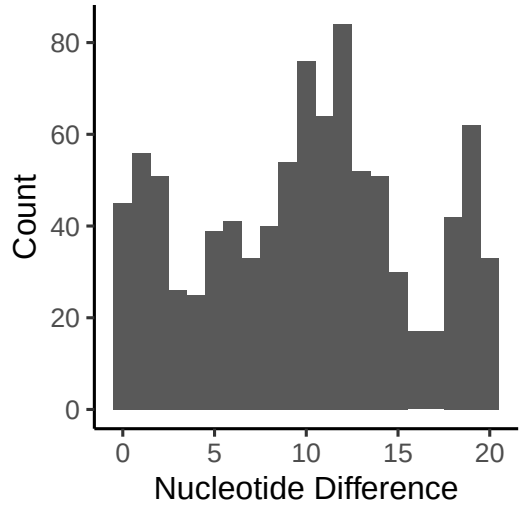
IGHV2−26*01

67 sequences assigned
9 (13.4%) exact matches, in which:
7 unique CDR3
3 unique J



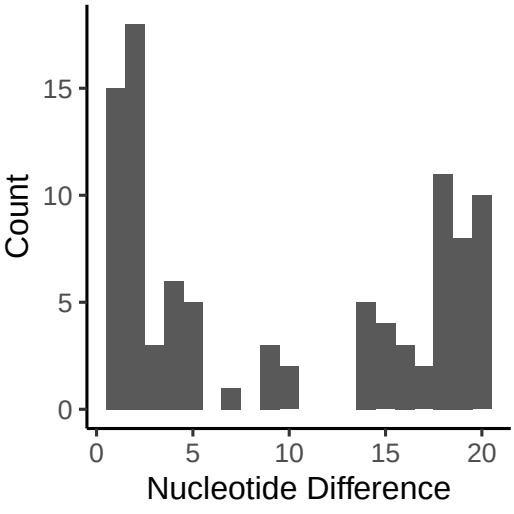
IGHV3−7*01

1162 sequences assigned
45 (3.9%) exact matches, in which:
39 unique CDR3
6 unique J



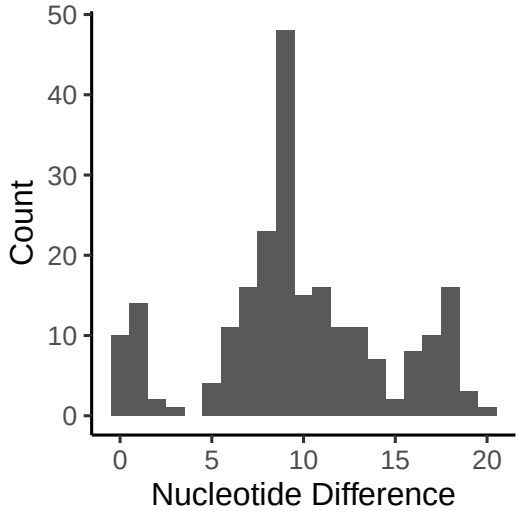
IGHV1−69*08

226 sequences assigned
No exact matches.



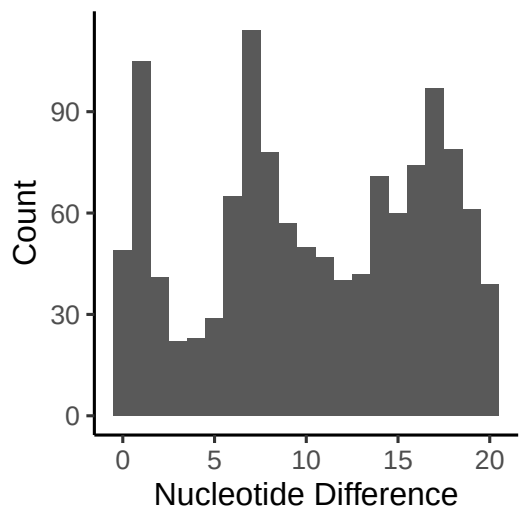
IGHV2−70*15

232 sequences assigned
10 (4.3%) exact matches, in which:
10 unique CDR3
4 unique J



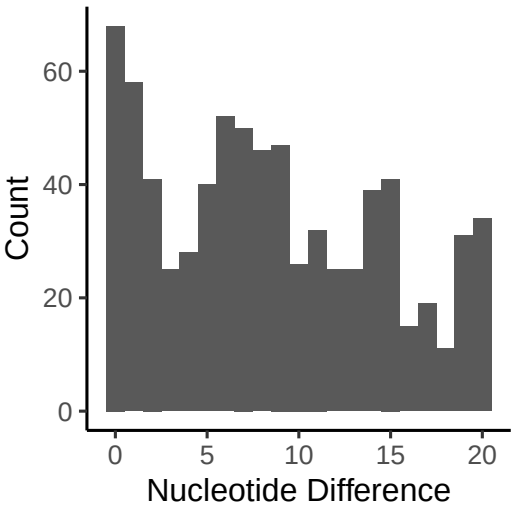
IGHV3−7*03

1583 sequences assigned
49 (3.1%) exact matches, in which:
36 unique CDR3
5 unique J



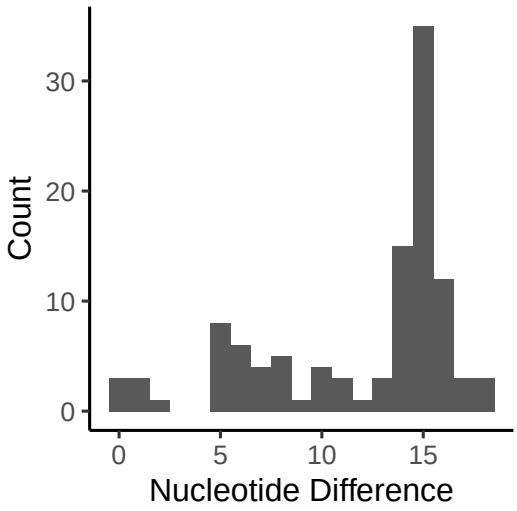
IGHV3−9*01

863 sequences assigned
68 (7.9%) exact matches, in which:
61 unique CDR3
5 unique J



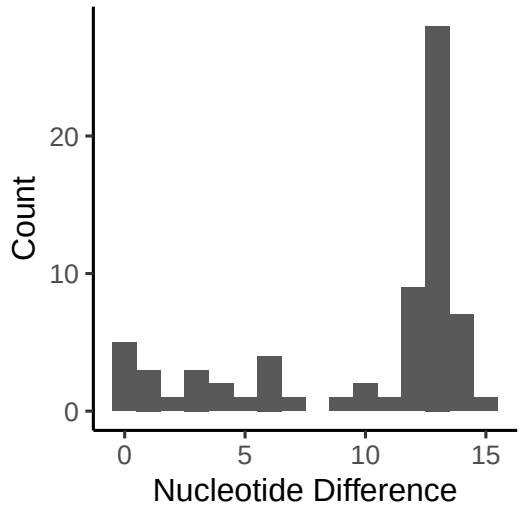
IGHV3−13*01

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



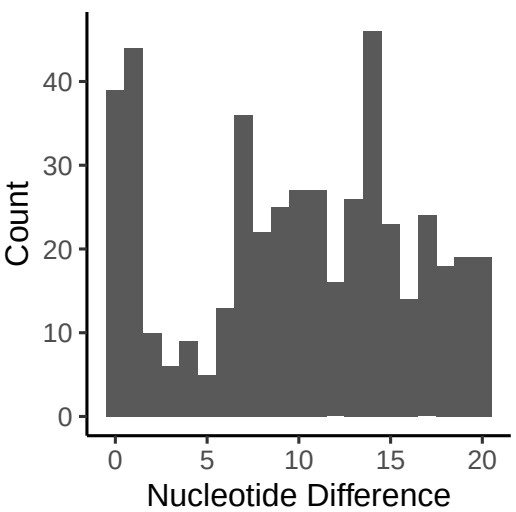
IGHV3−20*01

71 sequences assigned
5 (7%) exact matches, in which:
5 unique CDR3
3 unique J



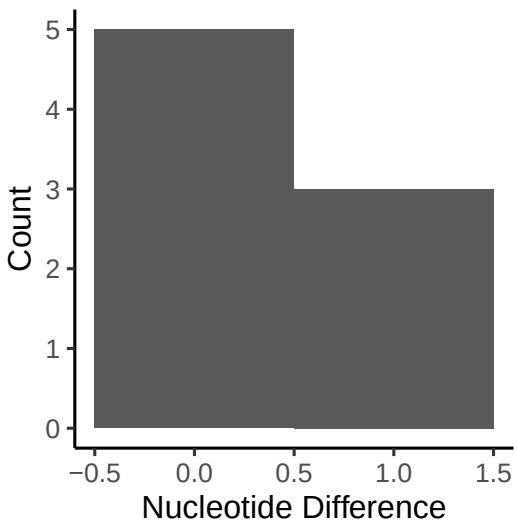
IGHV3−11*01

670 sequences assigned
39 (5.8%) exact matches, in which:
34 unique CDR3
4 unique J



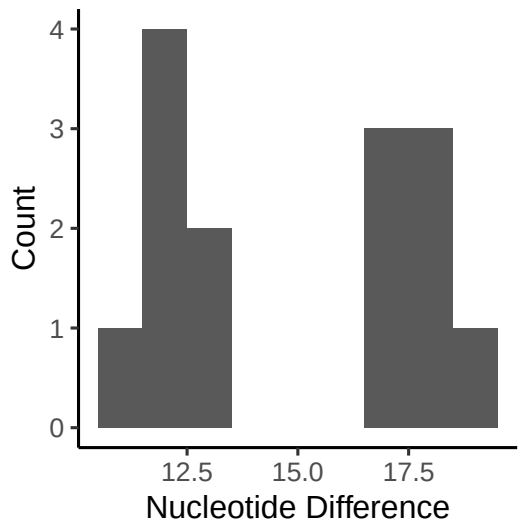
IGHV3−13*05

8 sequences assigned
5 (62.5%) exact matches, in which:
2 unique CDR3
2 unique J



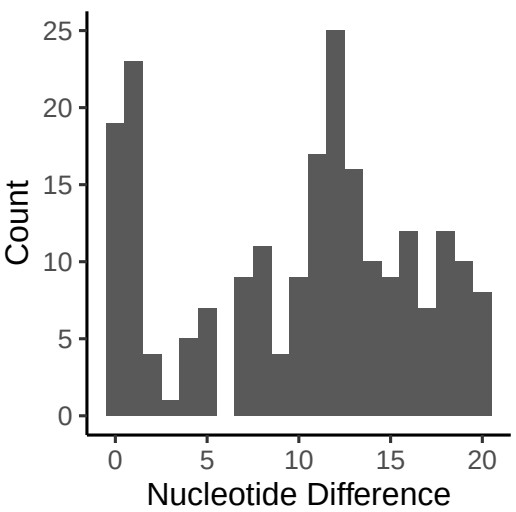
IGHV3−20*04

17 sequences assigned
No exact matches.



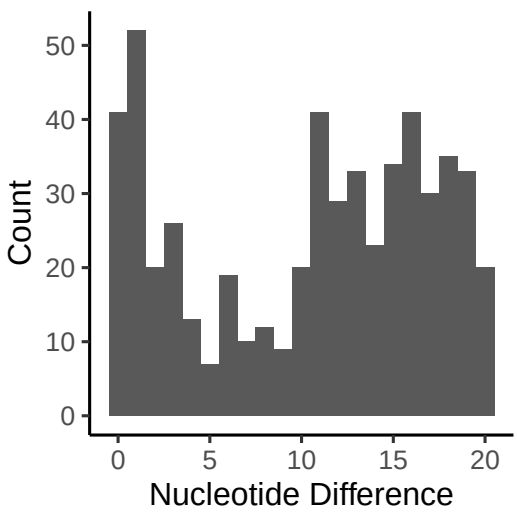
IGHV3−11*06

269 sequences assigned
19 (7.1%) exact matches, in which:
18 unique CDR3
5 unique J



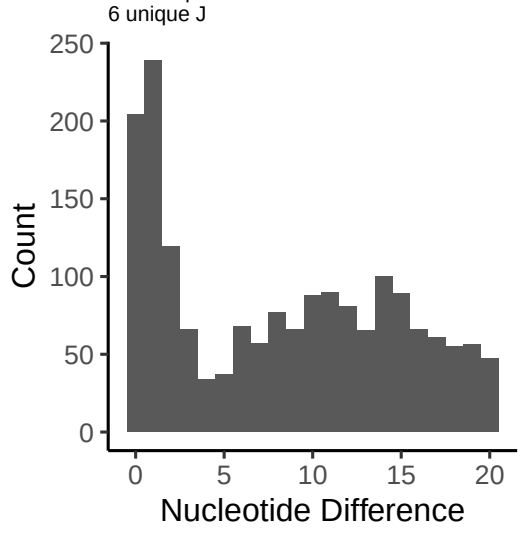
IGHV3−15*01

760 sequences assigned
41 (5.4%) exact matches, in which:
39 unique CDR3
4 unique J



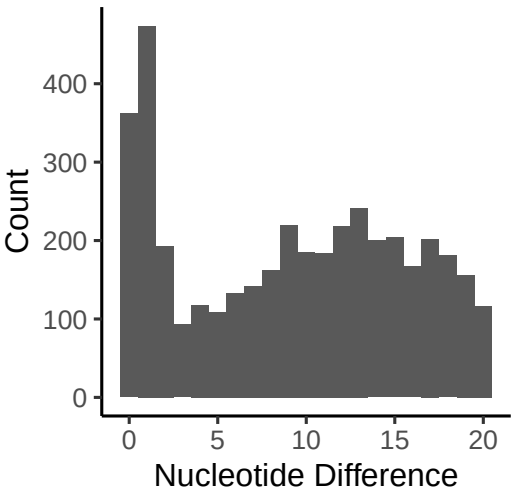
IGHV3−21*01

2368 sequences assigned
204 (8.6%) exact matches, in which:
163 unique CDR3
6 unique J



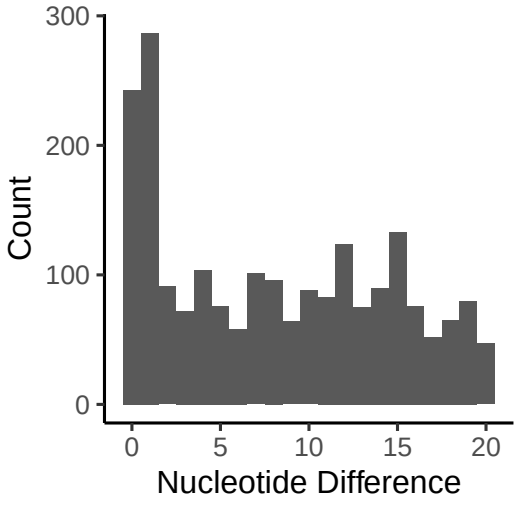
IGHV3−23*01

5588 sequences assigned
362 (6.5%) exact matches, in which:
310 unique CDR3
6 unique J



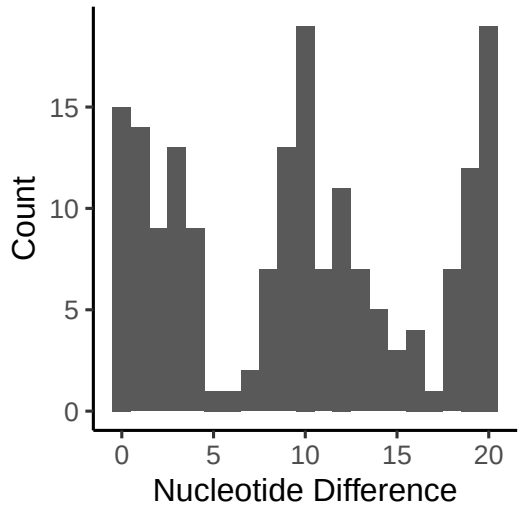
IGHV3−30*18

2574 sequences assigned
243 (9.4%) exact matches, in which:
190 unique CDR3
6 unique J



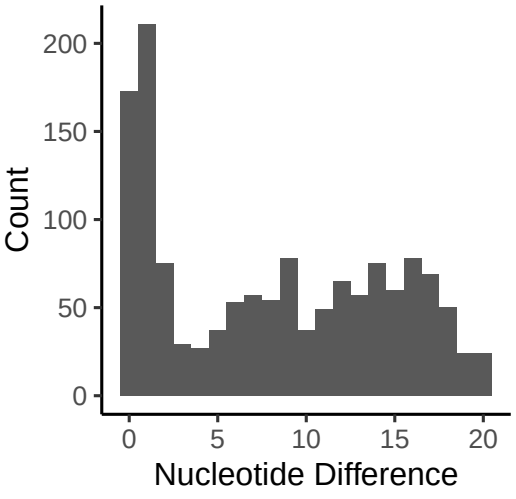
IGHV3−43*02

224 sequences assigned
15 (6.7%) exact matches, in which:
14 unique CDR3
3 unique J



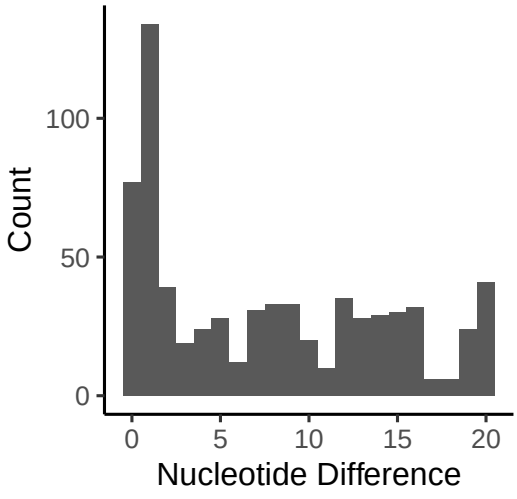
IGHV3−30−3*01

1677 sequences assigned
173 (10.3%) exact matches, in which:
146 unique CDR3
6 unique J



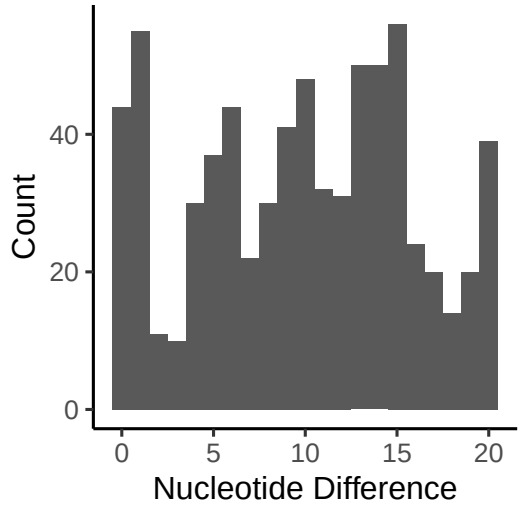
IGHV3−33*01

855 sequences assigned
77 (9%) exact matches, in which:
53 unique CDR3
4 unique J



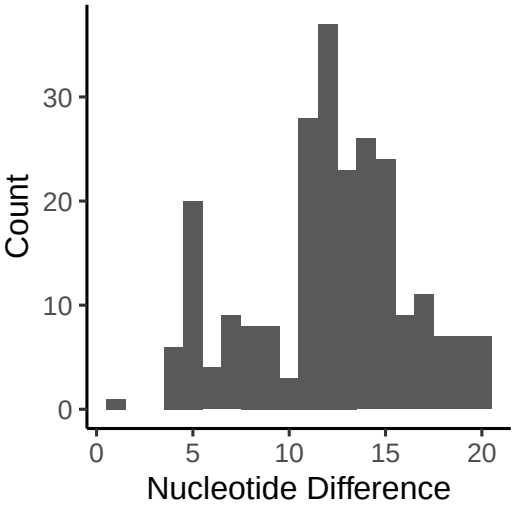
IGHV3−48*01

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



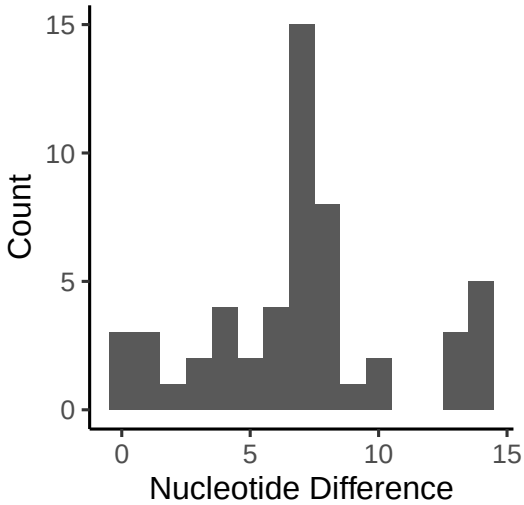
IGHV3−30*04

321 sequences assigned
No exact matches.



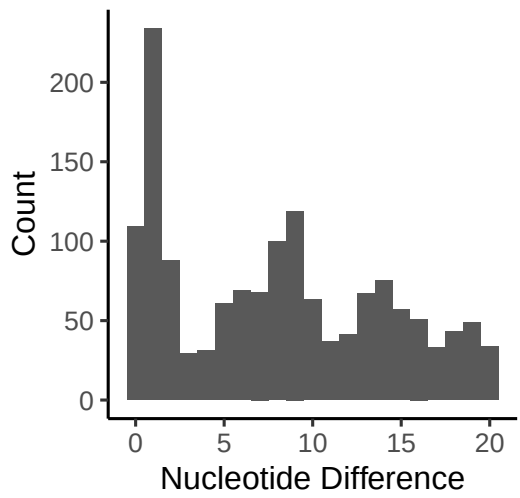
IGHV3−43*01

102 sequences assigned
3 (2.9%) exact matches, in which:
2 unique CDR3
2 unique J



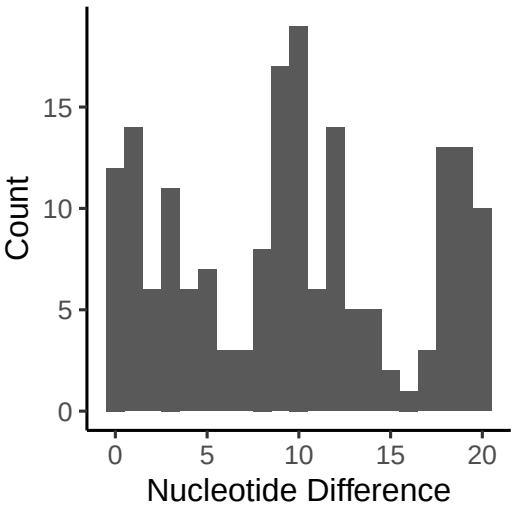
IGHV3−48*03

1690 sequences assigned
109 (6.4%) exact matches, in which:
79 unique CDR3
3 unique J



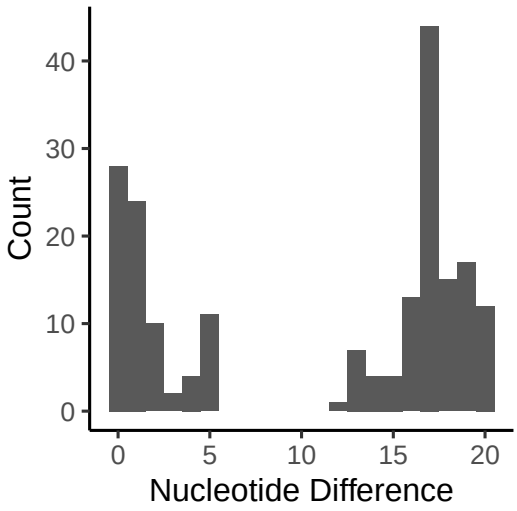
IGHV3−49*03

339 sequences assigned
12 (3.5%) exact matches, in which:
12 unique CDR3
3 unique J



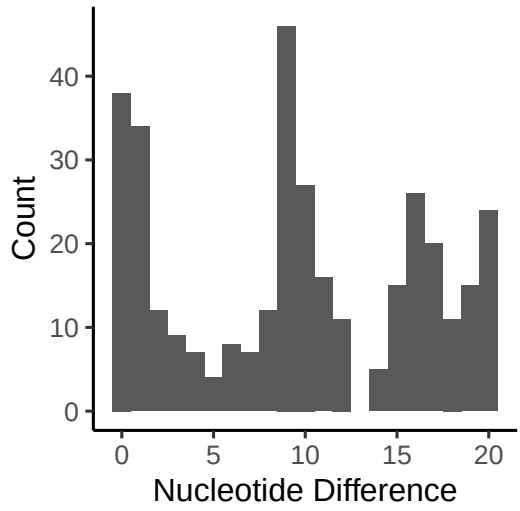
IGHV3−53*04

253 sequences assigned
28 (11.1%) exact matches, in which:
22 unique CDR3
4 unique J



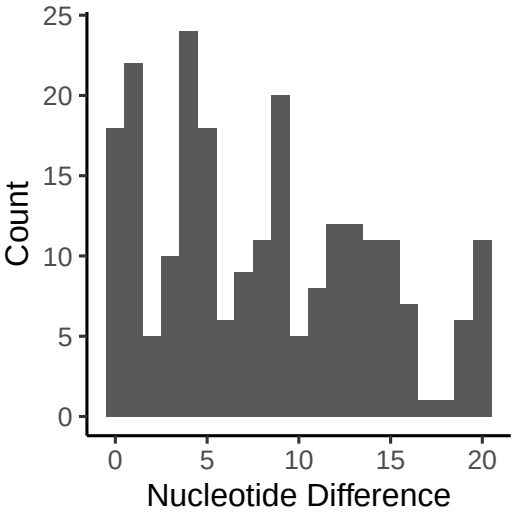
IGHV3−66*02

551 sequences assigned
38 (6.9%) exact matches, in which:
33 unique CDR3
4 unique J



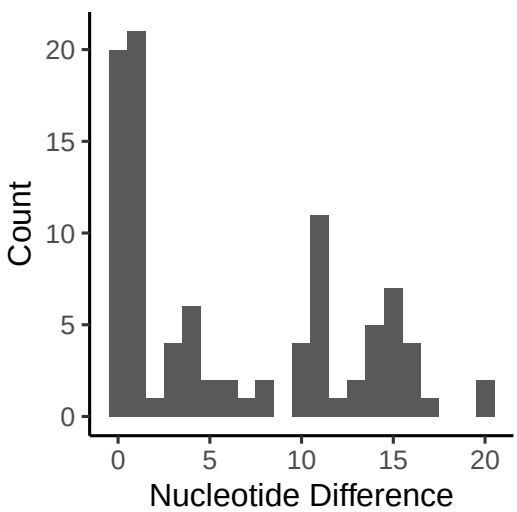
IGHV3−49*04

305 sequences assigned
18 (5.9%) exact matches, in which:
17 unique CDR3
5 unique J



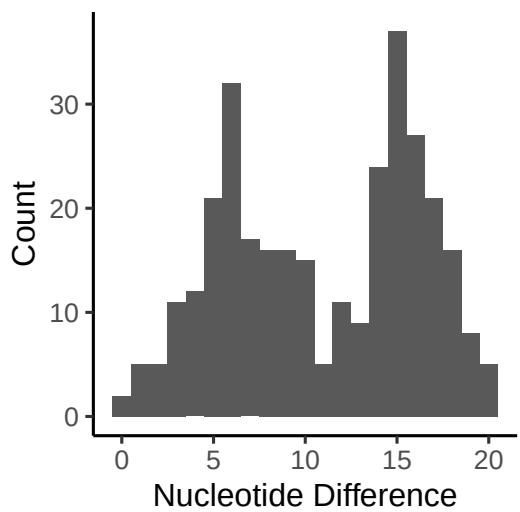
IGHV3−64*01

139 sequences assigned
20 (14.4%) exact matches, in which:
13 unique CDR3
3 unique J



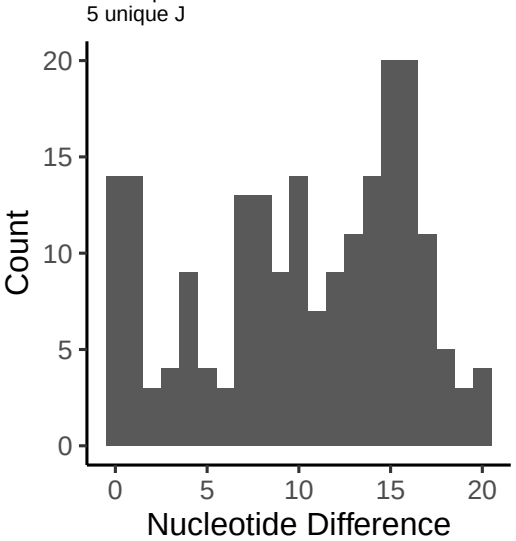
IGHV3−72*01

443 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
1 unique J



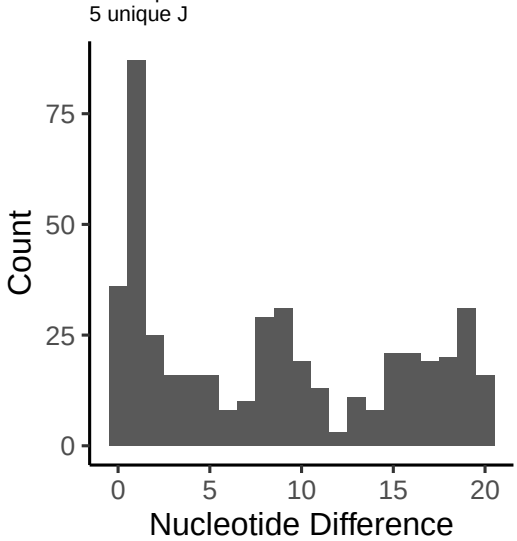
IGHV3−53*02

420 sequences assigned
14 (3.3%) exact matches, in which:
13 unique CDR3
5 unique J



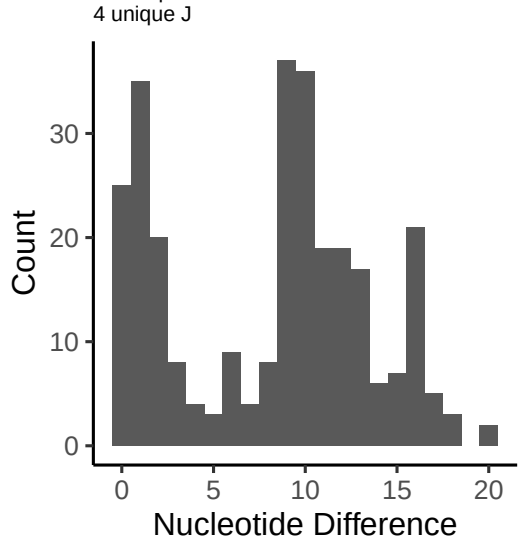
IGHV3−66*01

544 sequences assigned
36 (6.6%) exact matches, in which:
27 unique CDR3
5 unique J



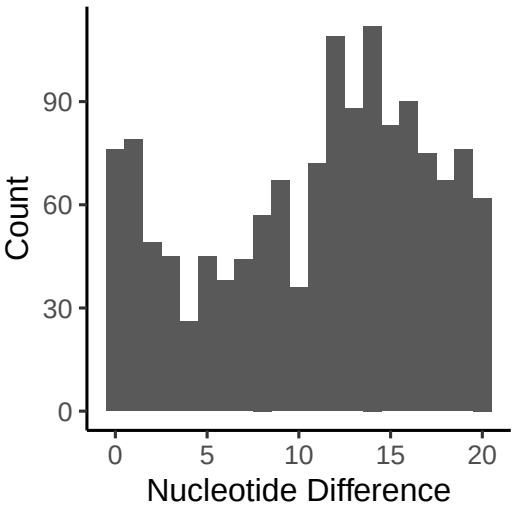
IGHV3−73*01

370 sequences assigned
25 (6.8%) exact matches, in which:
21 unique CDR3
4 unique J



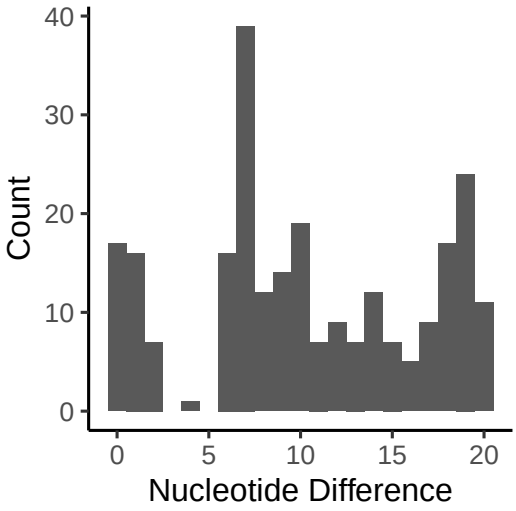
IGHV3−74*01

1881 sequences assigned
76 (4%) exact matches, in which:
64 unique CDR3
4 unique J



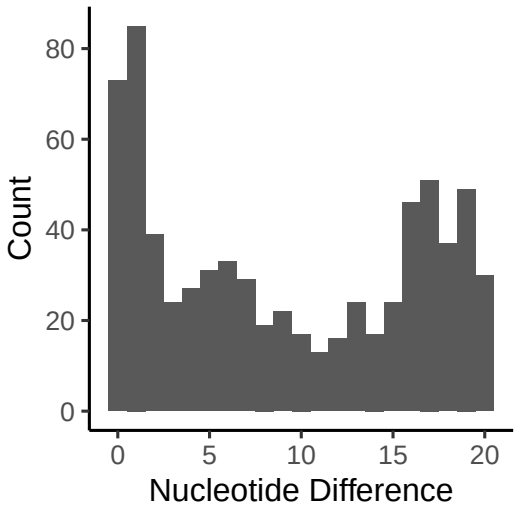
IGHV4−4*02

390 sequences assigned
17 (4.4%) exact matches, in which:
16 unique CDR3
4 unique J



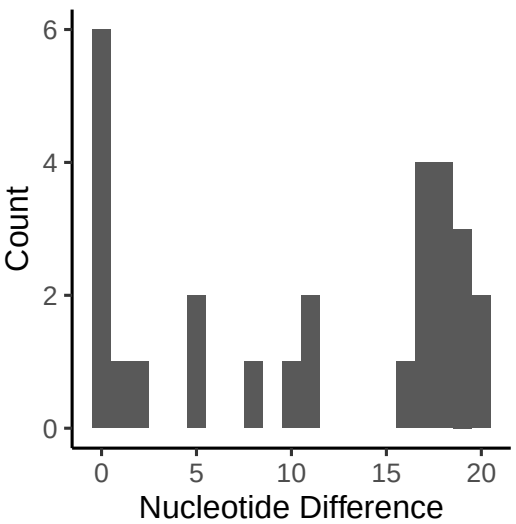
IGHV4−30−4*01

1042 sequences assigned
73 (7%) exact matches, in which:
61 unique CDR3
4 unique J



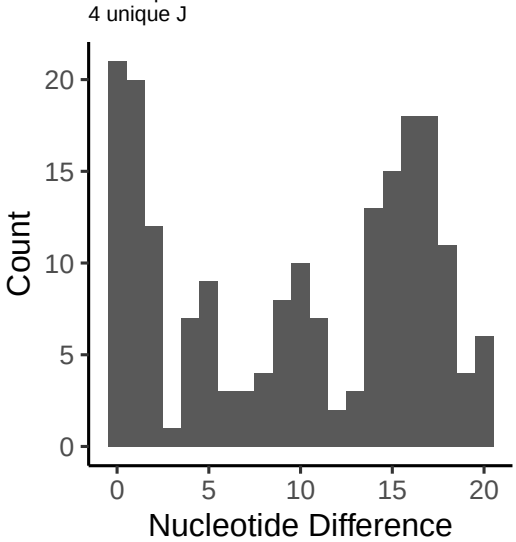
IGHV3−43D*03

30 sequences assigned
6 (20%) exact matches, in which:
6 unique CDR3
3 unique J



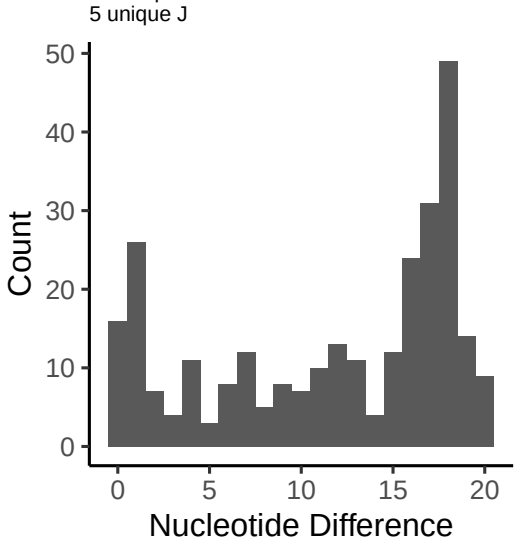
IGHV4−4*07

251 sequences assigned
21 (8.4%) exact matches, in which:
16 unique CDR3
4 unique J



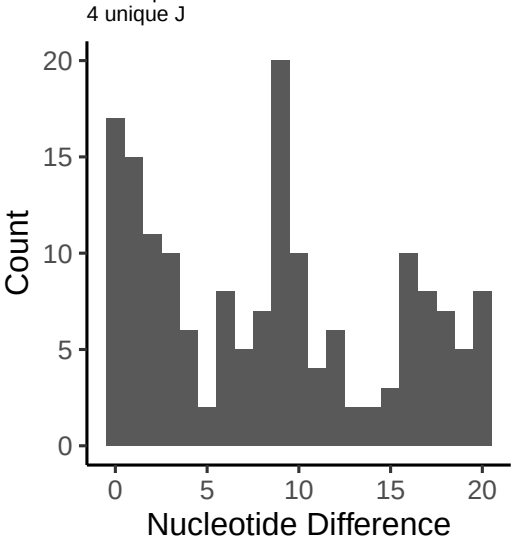
IGHV4−30−2*01

449 sequences assigned
16 (3.6%) exact matches, in which:
15 unique CDR3
5 unique J



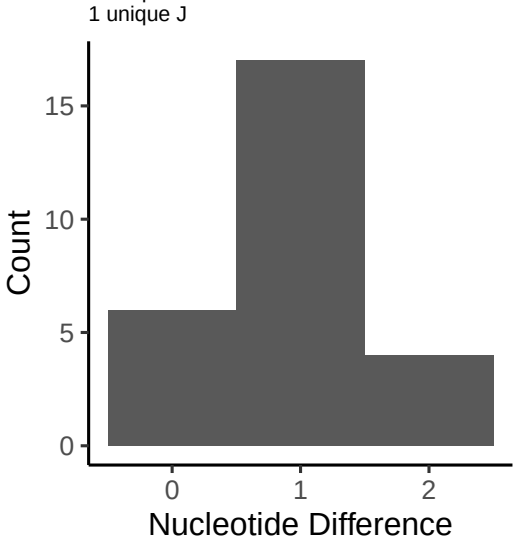
IGHV3−64D*06

247 sequences assigned
17 (6.9%) exact matches, in which:
17 unique CDR3
4 unique J



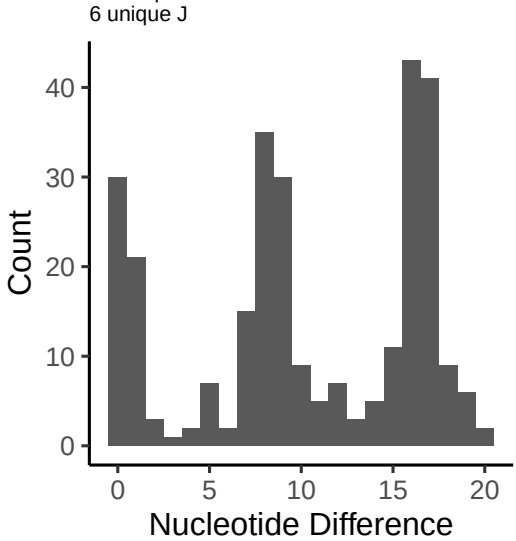
IGHV4−28*01

27 sequences assigned
6 (22.2%) exact matches, in which:
3 unique CDR3
1 unique J



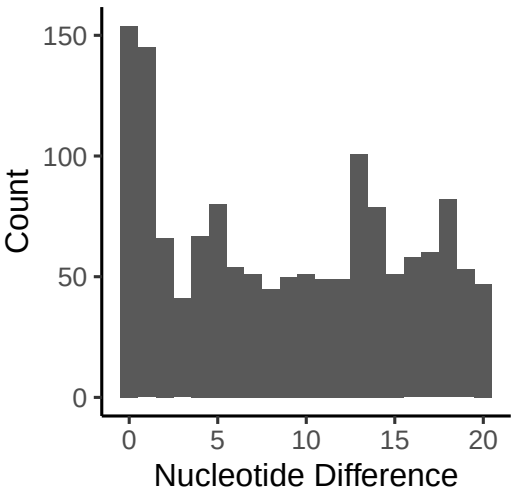
IGHV4−31*03

579 sequences assigned
30 (5.2%) exact matches, in which:
24 unique CDR3
6 unique J



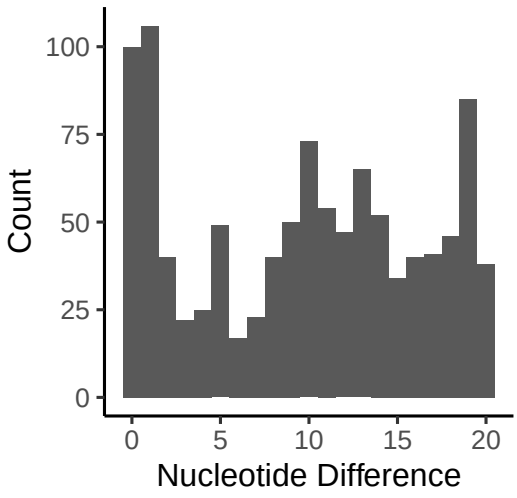
IGHV4−34*01

1964 sequences assigned
154 (7.8%) exact matches, in which:
140 unique CDR3
6 unique J



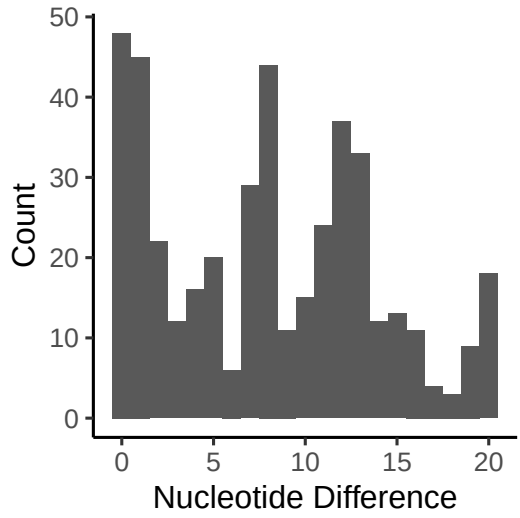
IGHV4−59*01

1254 sequences assigned
100 (8%) exact matches, in which:
82 unique CDR3
6 unique J



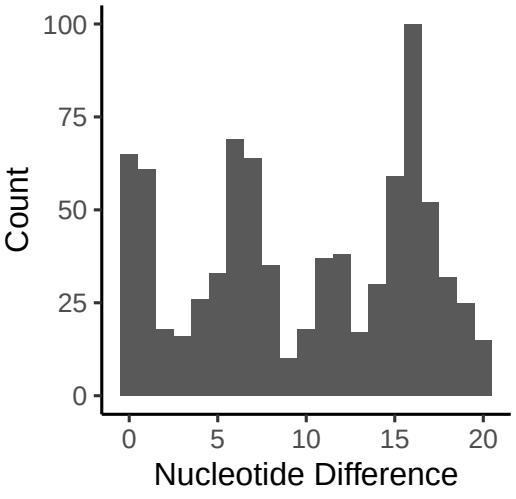
IGHV5−10−1*03

623 sequences assigned
48 (7.7%) exact matches, in which:
43 unique CDR3
5 unique J



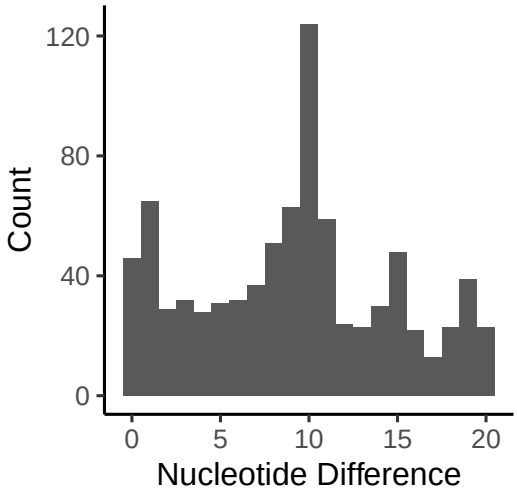
IGHV4−38−2*02

1243 sequences assigned
65 (5.2%) exact matches, in which:
56 unique CDR3
6 unique J



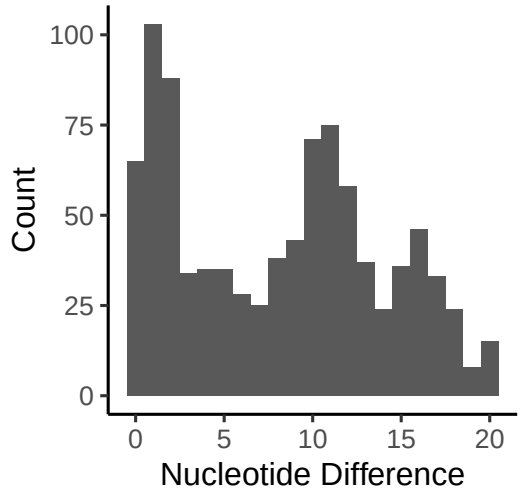
IGHV4−59*08

1039 sequences assigned
46 (4.4%) exact matches, in which:
35 unique CDR3
5 unique J



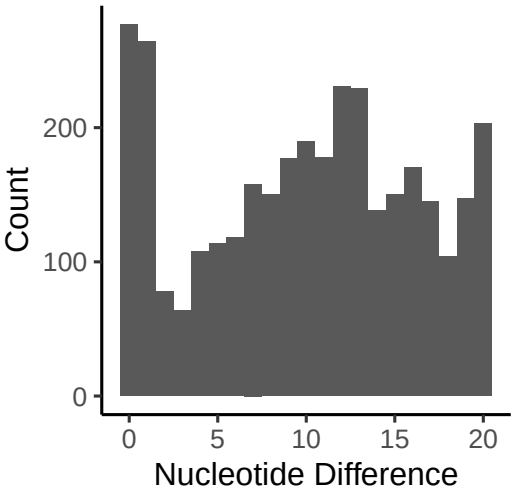
IGHV5−51*01

1164 sequences assigned
65 (5.6%) exact matches, in which:
57 unique CDR3
5 unique J



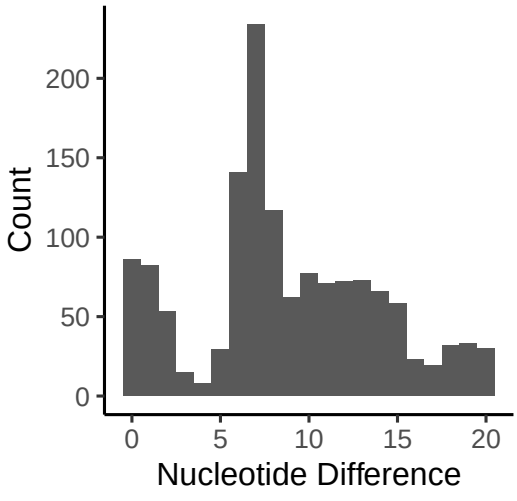
IGHV4−39*01

5117 sequences assigned
277 (5.4%) exact matches, in which:
259 unique CDR3
6 unique J



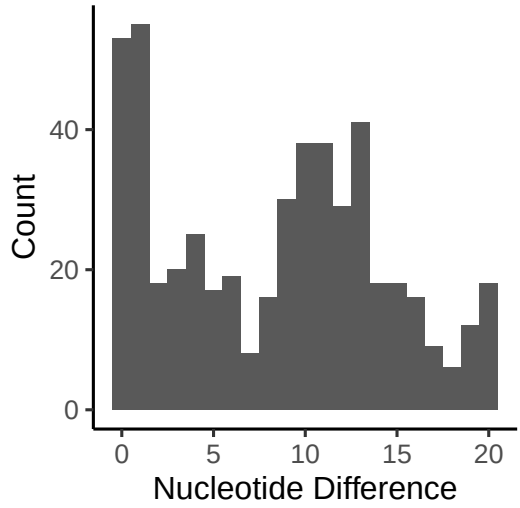
IGHV4−61*02

1764 sequences assigned
86 (4.9%) exact matches, in which:
65 unique CDR3
6 unique J



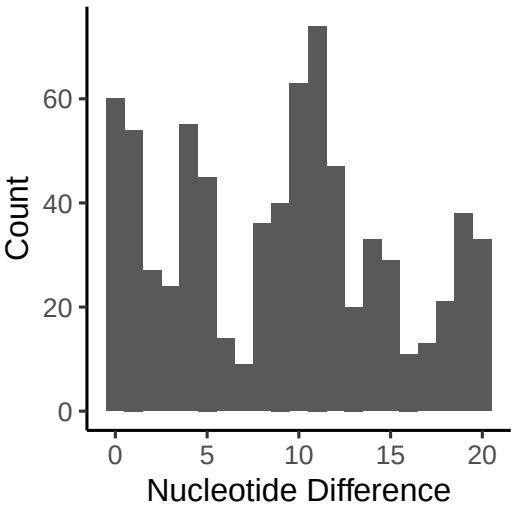
IGHV5−51*03

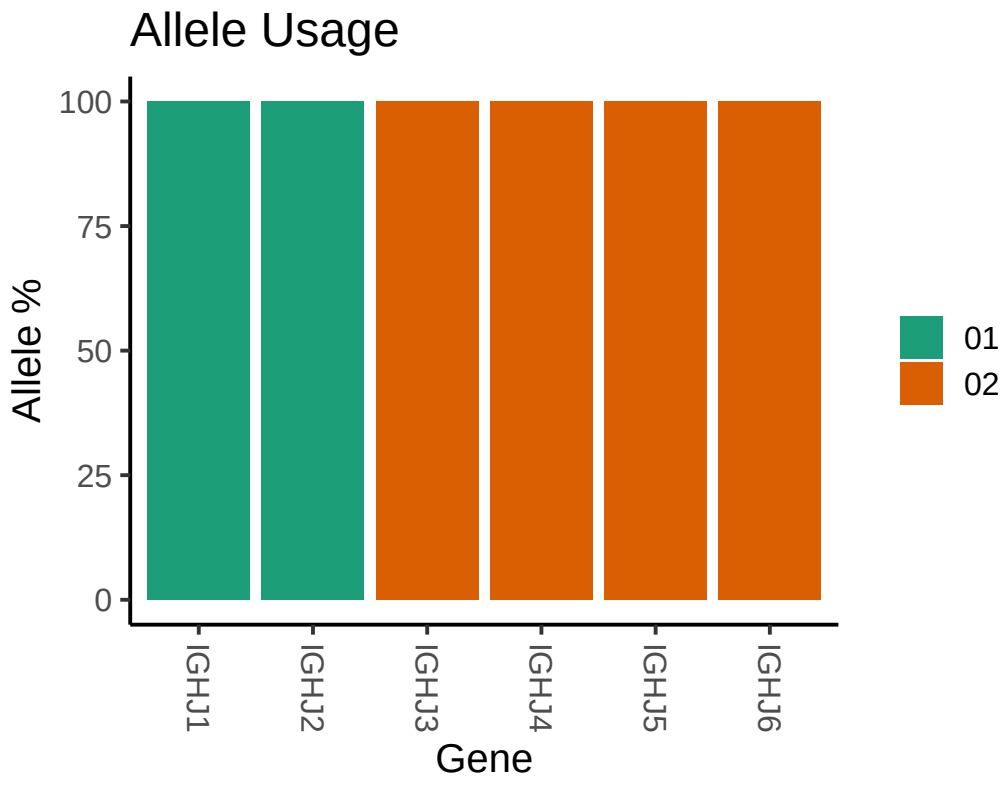
629 sequences assigned
53 (8.4%) exact matches, in which:
48 unique CDR3
5 unique J



IGHV6−1*01

791 sequences assigned
60 (7.6%) exact matches, in which:
46 unique CDR3
6 unique J




Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02

Warning − no inferred sequences found.