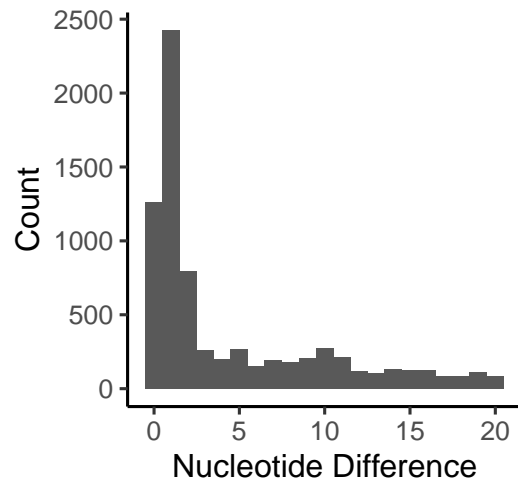


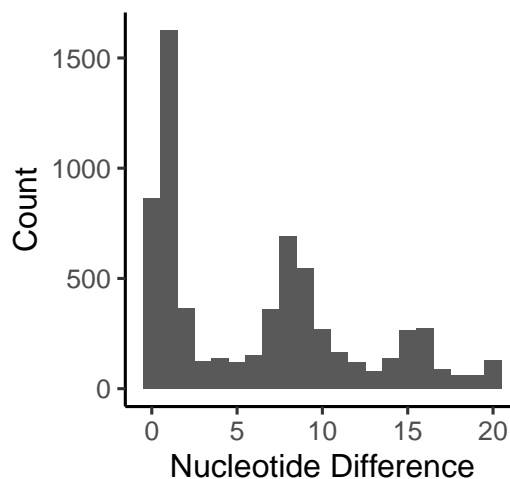
IGHV1-2*02

9395 sequences assigned
1262 (13.4%) exact matches, in which:
929 unique CDR3
7 unique J



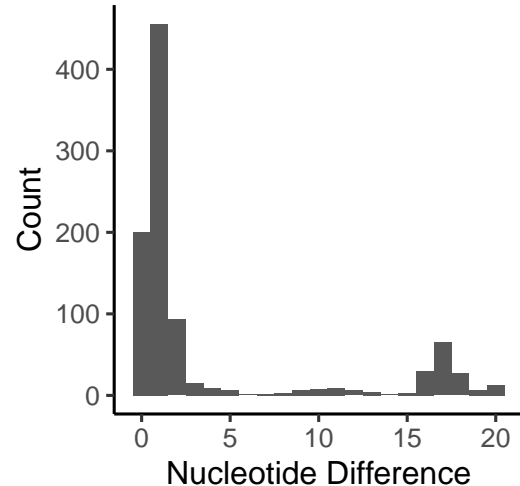
IGHV1-8*01

7657 sequences assigned
864 (11.3%) exact matches, in which:
629 unique CDR3
7 unique J



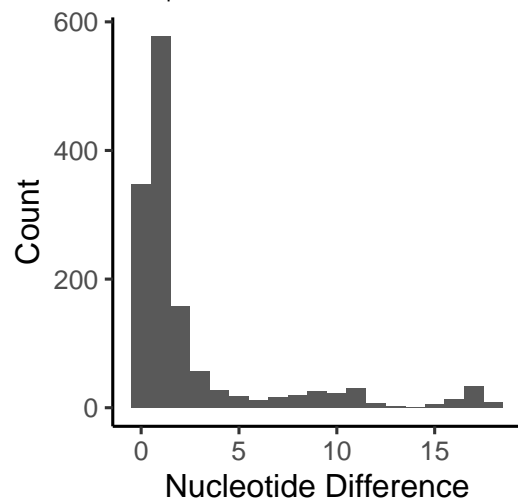
IGHV1-24*01

1374 sequences assigned
200 (14.6%) exact matches, in which:
119 unique CDR3
5 unique J



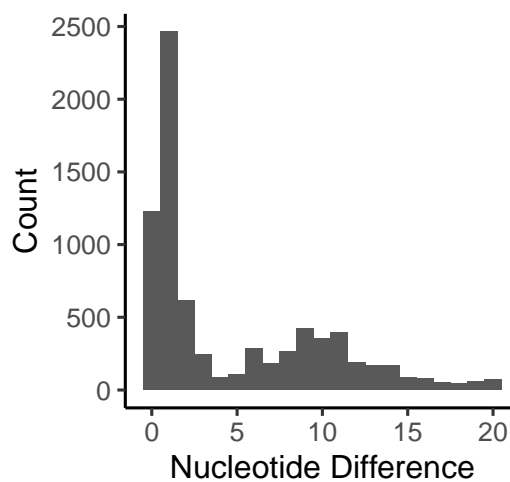
IGHV1-2*04

1466 sequences assigned
347 (23.7%) exact matches, in which:
269 unique CDR3
5 unique J



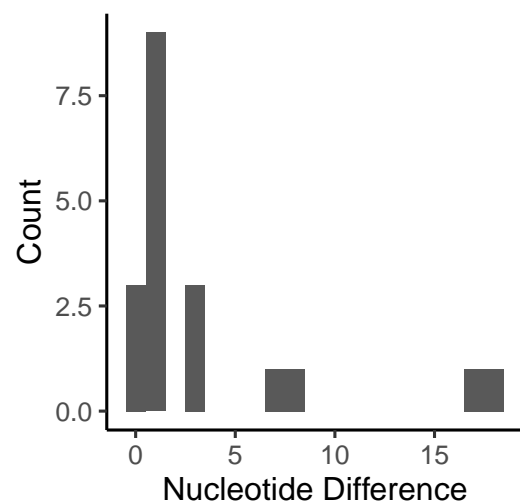
IGHV1-18*01

9281 sequences assigned
1231 (13.3%) exact matches, in which:
865 unique CDR3
6 unique J



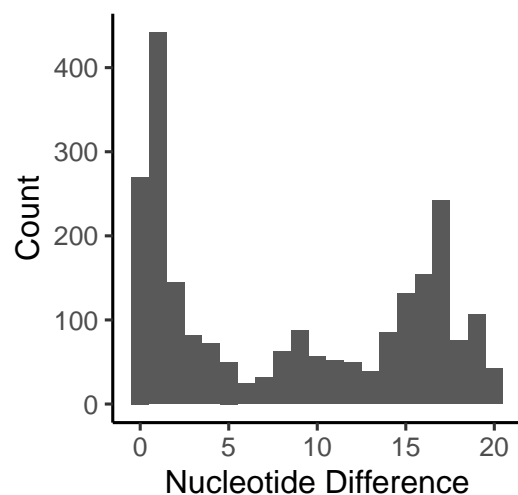
IGHV1-45*02

19 sequences assigned
3 (15.8%) exact matches, in which:
2 unique CDR3
1 unique J



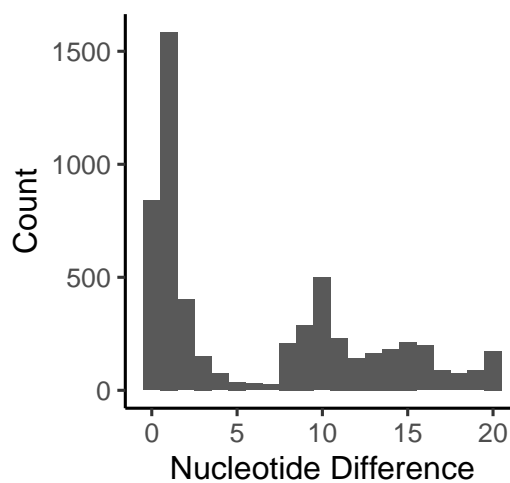
IGHV1-3*01_05

3336 sequences assigned
270 (8.1%) exact matches, in which:
194 unique CDR3
5 unique J



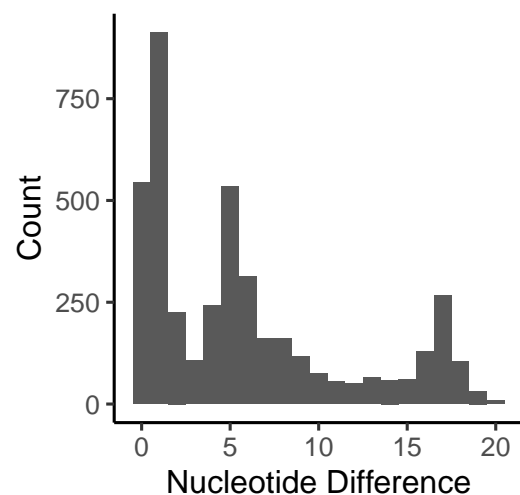
IGHV1-18*04

7768 sequences assigned
840 (10.8%) exact matches, in which:
601 unique CDR3
6 unique J



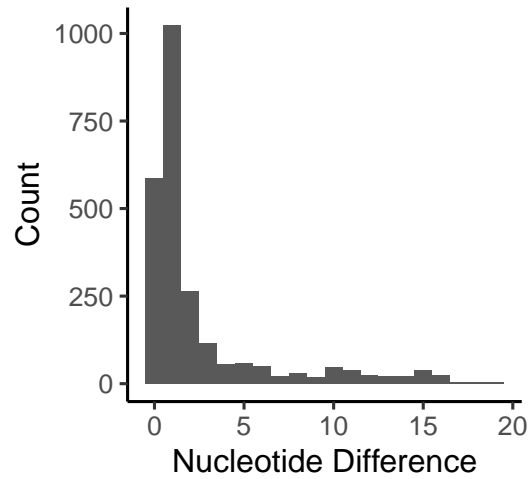
IGHV1-46*01

4823 sequences assigned
543 (11.3%) exact matches, in which:
413 unique CDR3
5 unique J



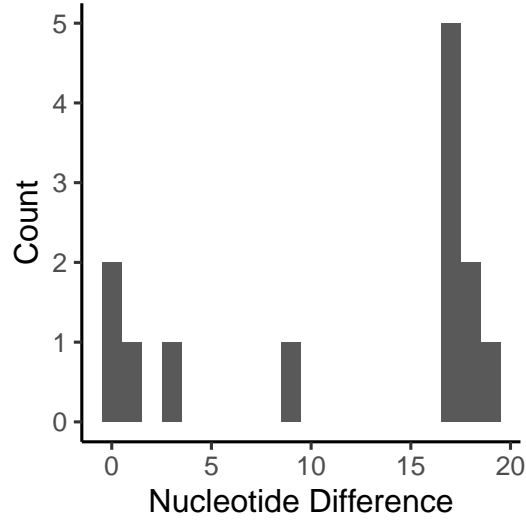
IGHV1-46*04

2738 sequences assigned
586 (21.4%) exact matches, in which:
430 unique CDR3
7 unique J



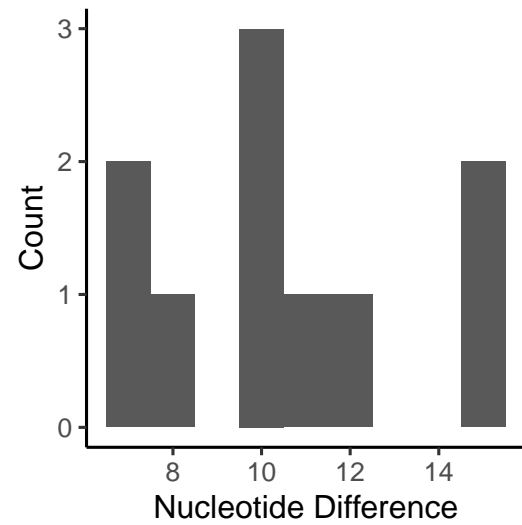
IGHV1-69-2*01

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



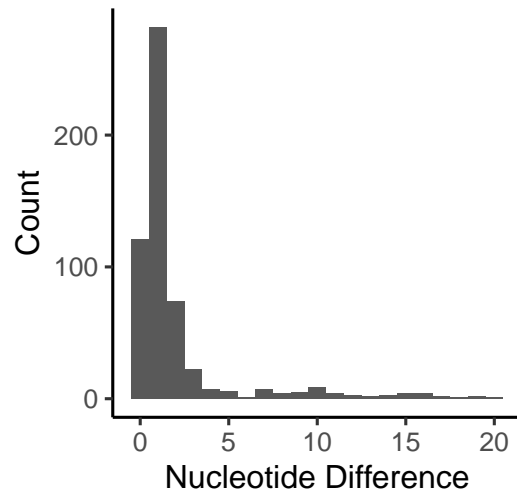
IGHV1-NL1*01

10 sequences assigned
No exact matches.



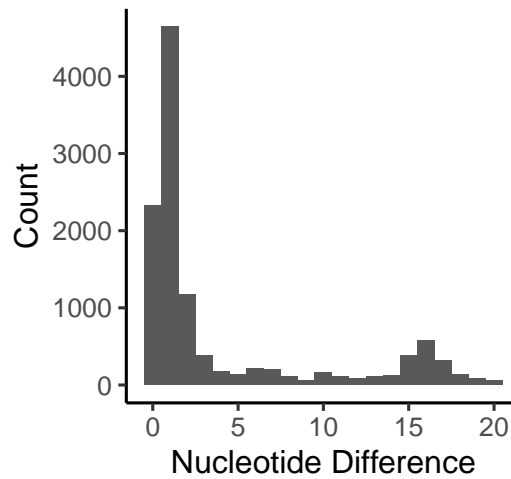
IGHV1-58*01_03

569 sequences assigned
121 (21.3%) exact matches, in which:
92 unique CDR3
5 unique J



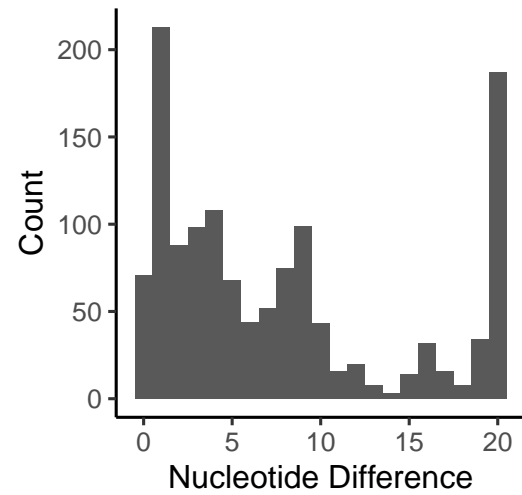
IGHV1-69*01_12_13

12722 sequences assigned
2327 (18.3%) exact matches, in which:
1632 unique CDR3
7 unique J



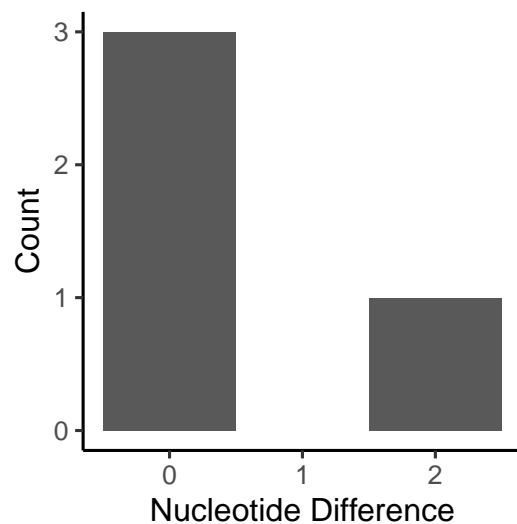
IGHV2-5*02

2282 sequences assigned
71 (3.1%) exact matches, in which:
51 unique CDR3
6 unique J



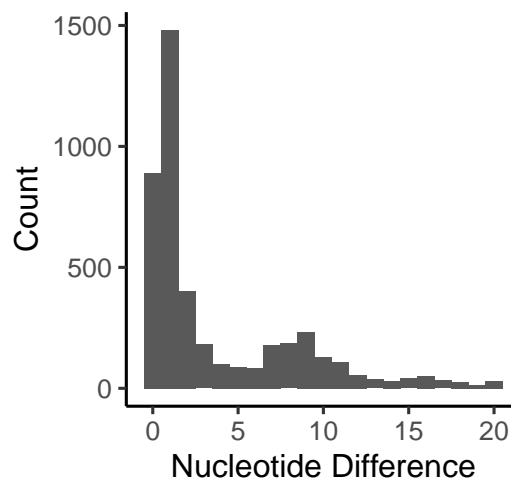
IGHV1-68*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



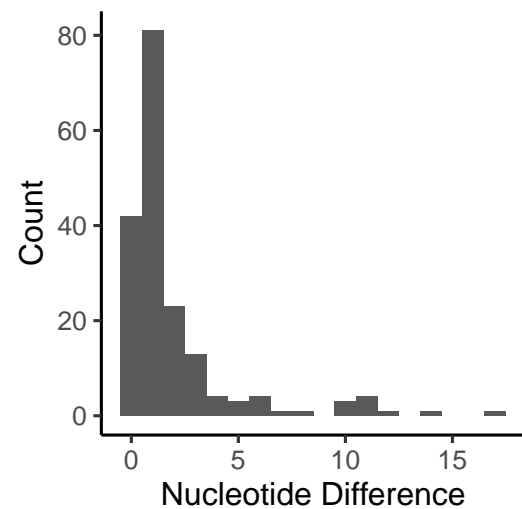
IGHV1-69*06_14

5108 sequences assigned
890 (17.4%) exact matches, in which:
697 unique CDR3
6 unique J



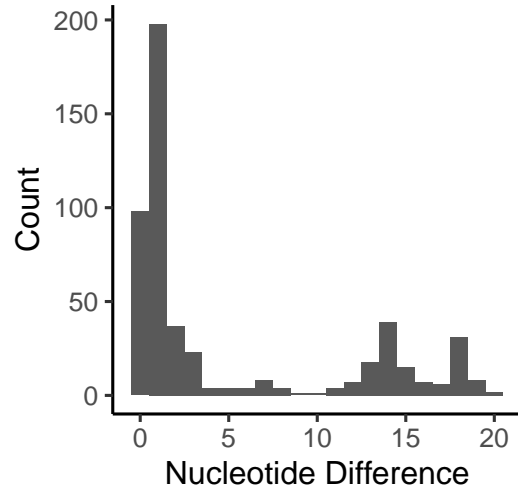
IGHV2-26*01

268 sequences assigned
42 (15.7%) exact matches, in which:
23 unique CDR3
5 unique J



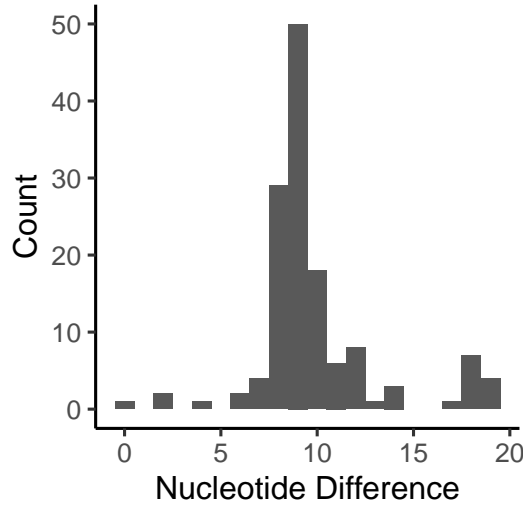
IGHV2-70*01

546 sequences assigned
98 (17.9%) exact matches, in which:
71 unique CDR3
5 unique J



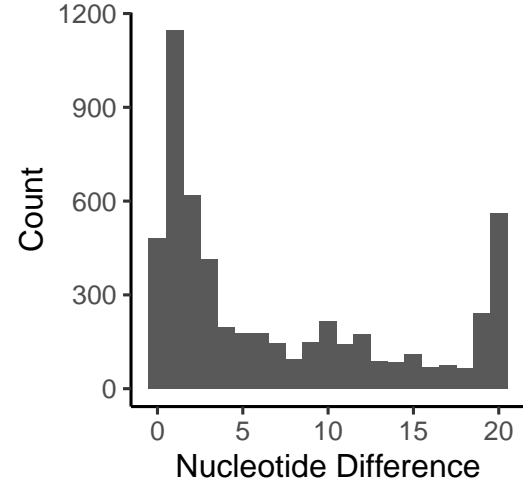
IGHV2-70*13

142 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



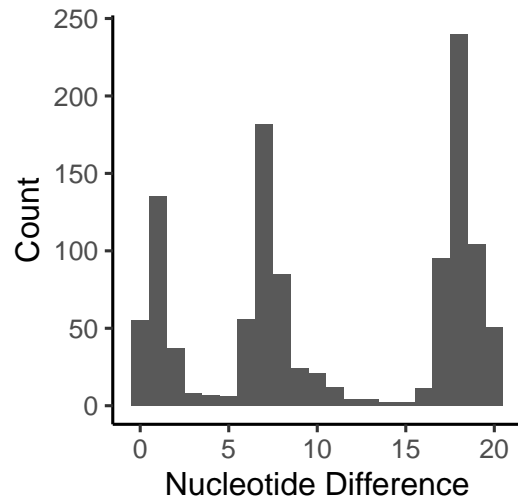
IGHV3-7*03

8653 sequences assigned
482 (5.6%) exact matches, in which:
293 unique CDR3
5 unique J



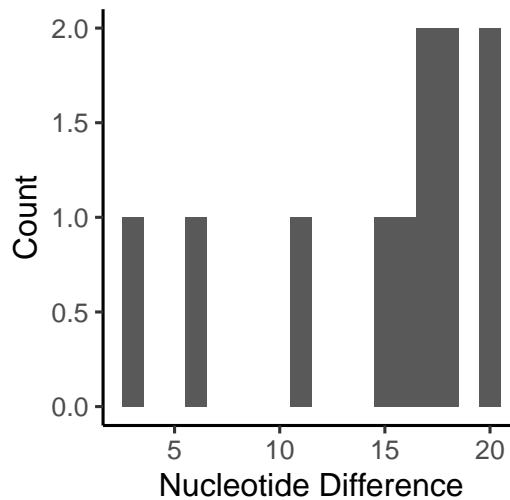
IGHV2-70*04

1248 sequences assigned
55 (4.4%) exact matches, in which:
34 unique CDR3
4 unique J



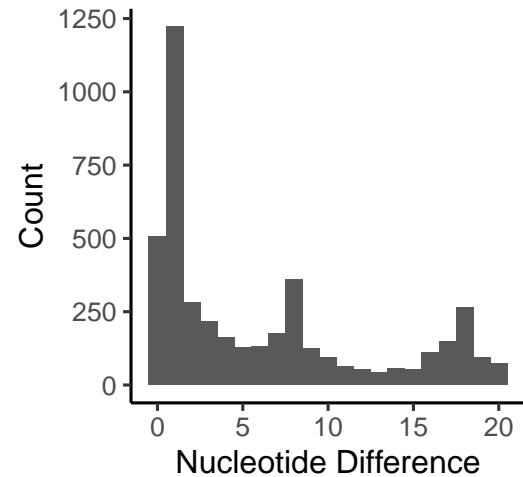
IGHV2-70D*14

17 sequences assigned
No exact matches.



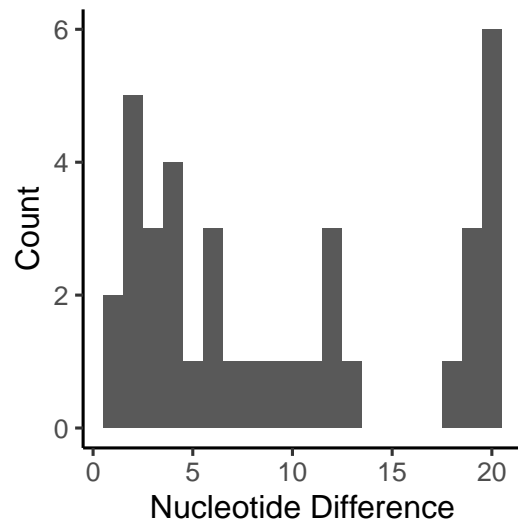
IGHV3-9*01

5022 sequences assigned
505 (10.1%) exact matches, in which:
281 unique CDR3
7 unique J



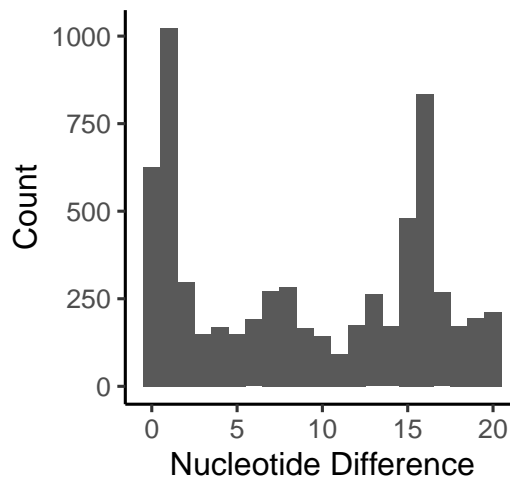
IGHV2-70*12

42 sequences assigned
No exact matches.



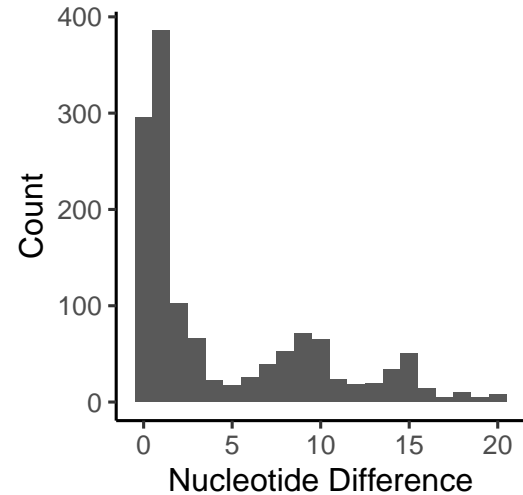
IGHV3-7*01

8740 sequences assigned
626 (7.2%) exact matches, in which:
404 unique CDR3
7 unique J



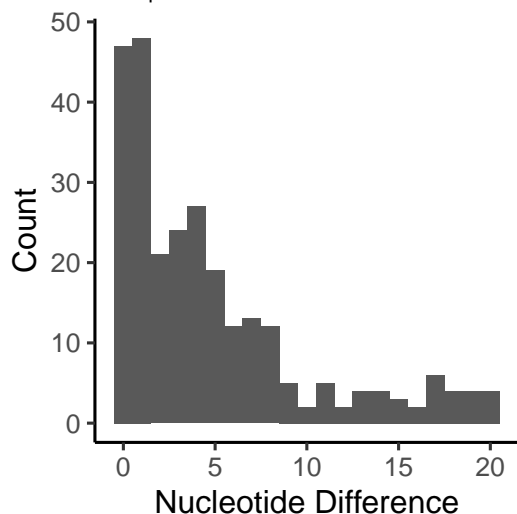
IGHV3-11*01

2076 sequences assigned
295 (14.2%) exact matches, in which:
195 unique CDR3
6 unique J



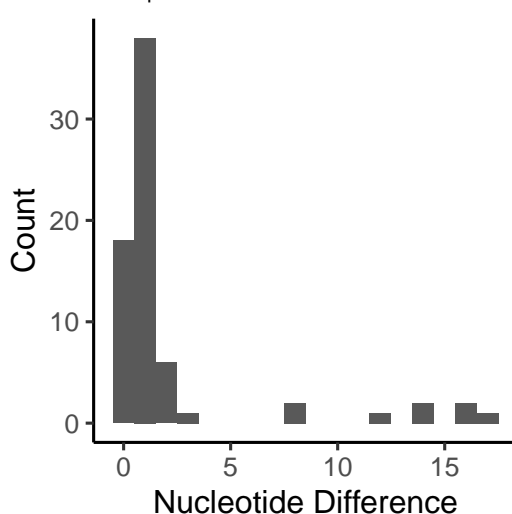
IGHV3-11*04

297 sequences assigned
47 (15.8%) exact matches, in which:
44 unique CDR3
6 unique J



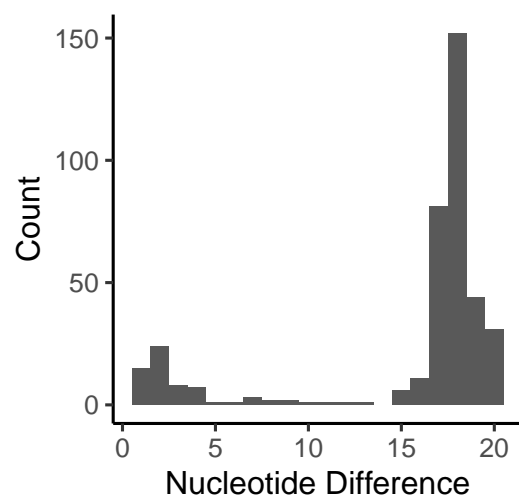
IGHV3-13*05

73 sequences assigned
18 (24.7%) exact matches, in which:
13 unique CDR3
3 unique J



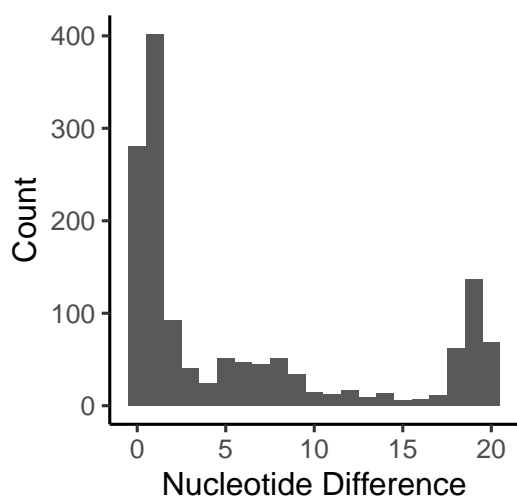
IGHV3-20*03_04

497 sequences assigned
No exact matches.



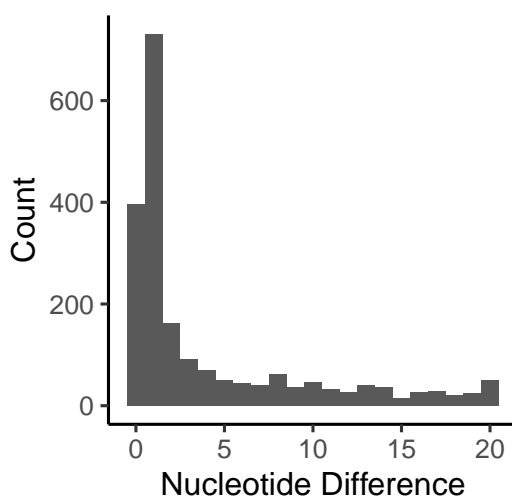
IGHV3-11*06

1655 sequences assigned
281 (17%) exact matches, in which:
176 unique CDR3
7 unique J



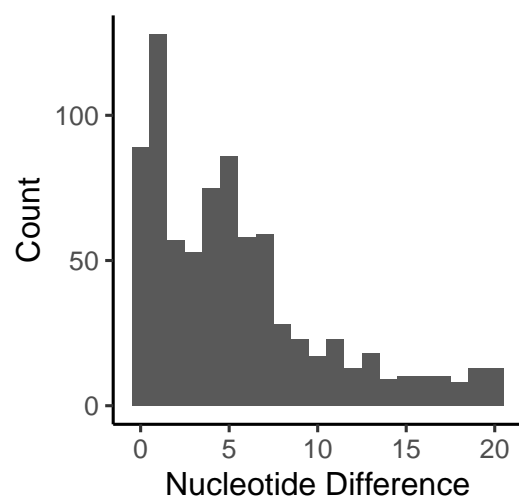
IGHV3-15*01_02

2870 sequences assigned
396 (13.8%) exact matches, in which:
225 unique CDR3
7 unique J



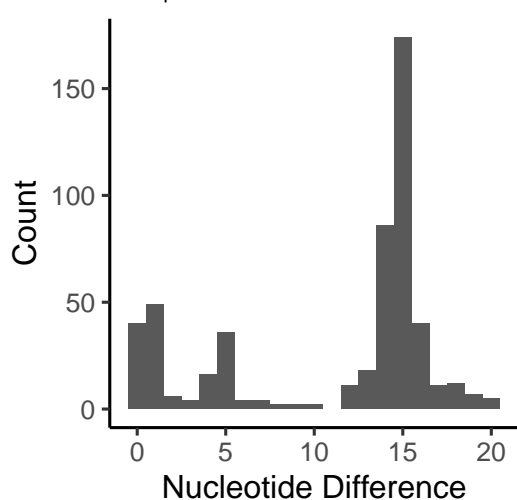
IGHV3-21*04

922 sequences assigned
89 (9.7%) exact matches, in which:
68 unique CDR3
6 unique J



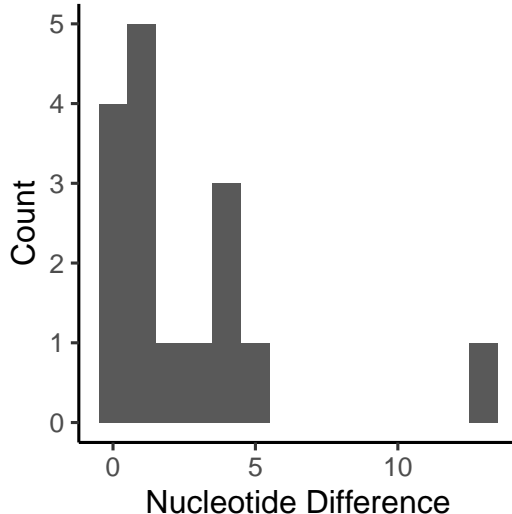
IGHV3-13*01

581 sequences assigned
40 (6.9%) exact matches, in which:
23 unique CDR3
4 unique J



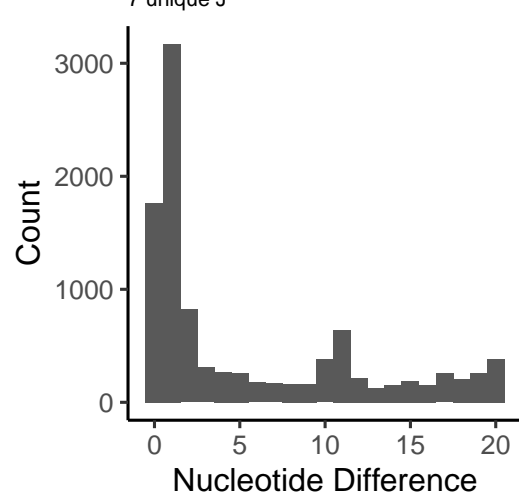
IGHV3-19*01

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



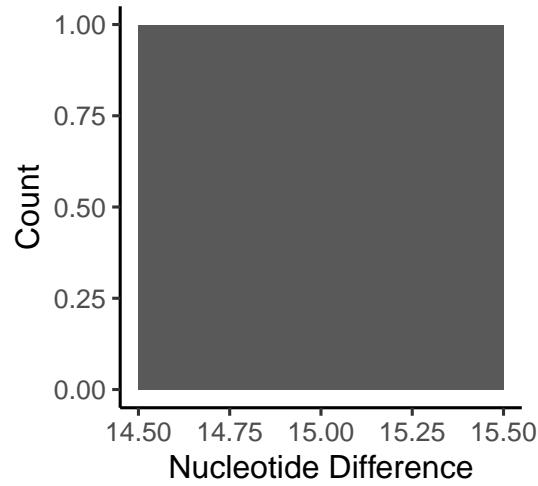
IGHV3-21*01_02

13029 sequences assigned
1763 (13.5%) exact matches, in which:
993 unique CDR3
7 unique J



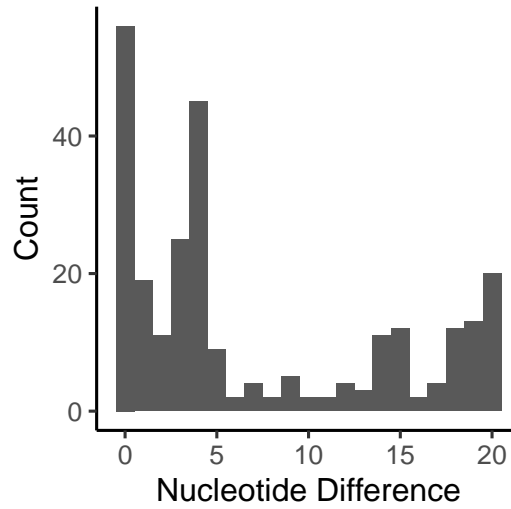
IGHV3-22*01_02

1 sequences assigned
No exact matches.



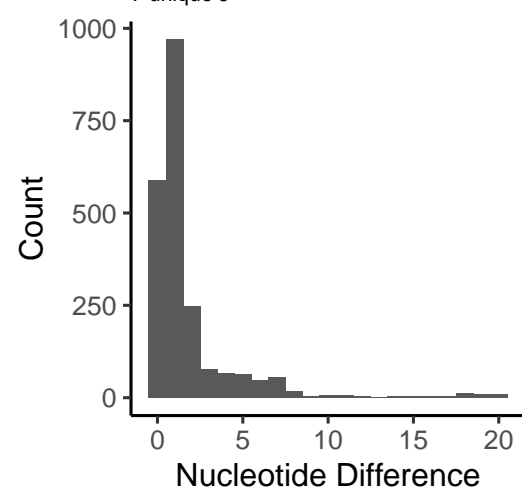
IGHV3-30*03

298 sequences assigned
56 (18.8%) exact matches, in which:
52 unique CDR3
7 unique J



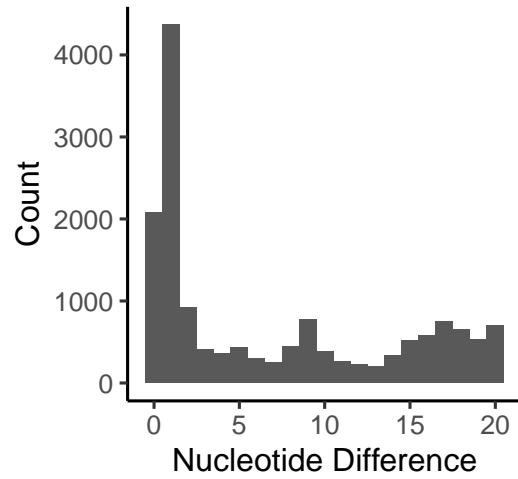
IGHV3-33*01

2623 sequences assigned
589 (22.5%) exact matches, in which:
380 unique CDR3
7 unique J



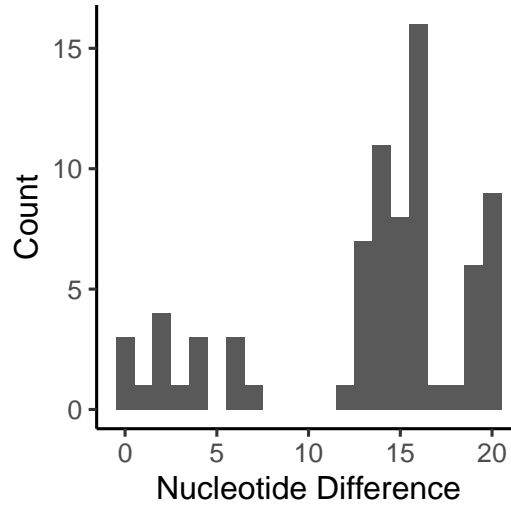
IGHV3-23*01_04

22443 sequences assigned
2079 (9.3%) exact matches, in which:
1165 unique CDR3
7 unique J



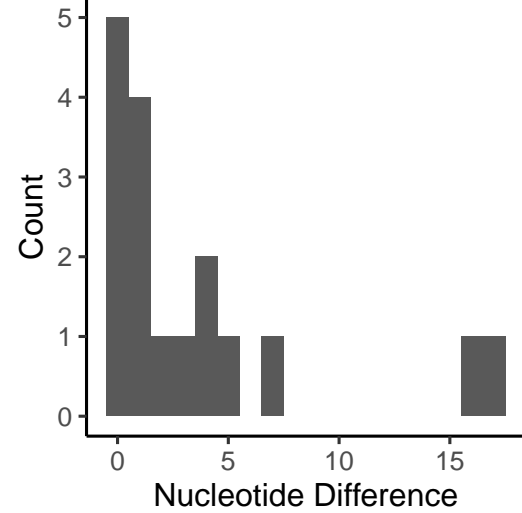
IGHV3-30*04

94 sequences assigned
3 (3.2%) exact matches, in which:
3 unique CDR3
2 unique J



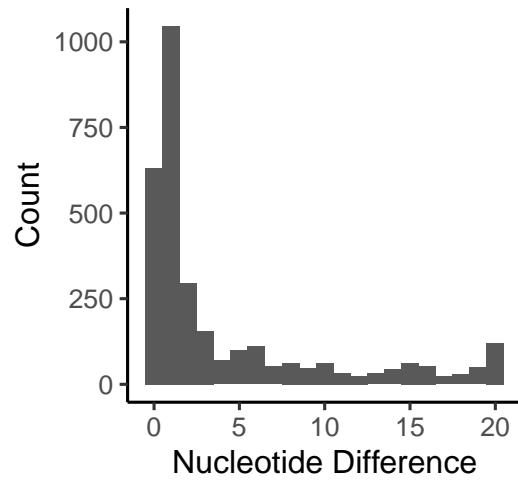
IGHV3-33*05

18 sequences assigned
5 (27.8%) exact matches, in which:
5 unique CDR3
4 unique J



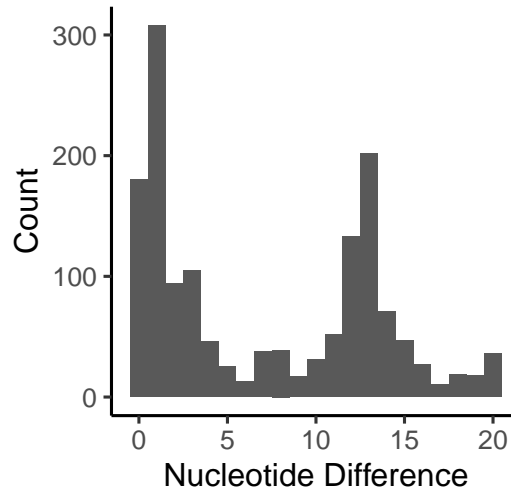
IGHV3-30-3*01

3534 sequences assigned
632 (17.9%) exact matches, in which:
401 unique CDR3
7 unique J



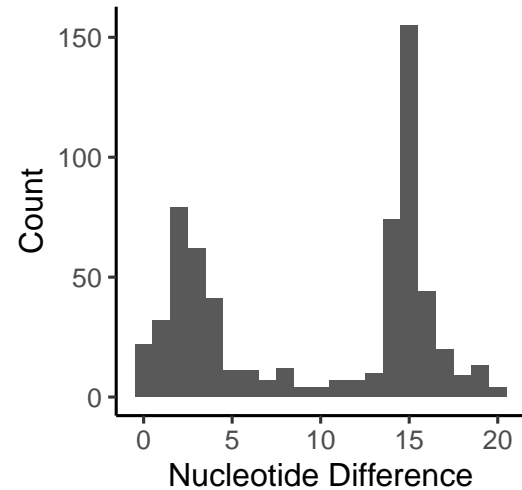
IGHV3-30*18

1825 sequences assigned
180 (9.9%) exact matches, in which:
102 unique CDR3
5 unique J



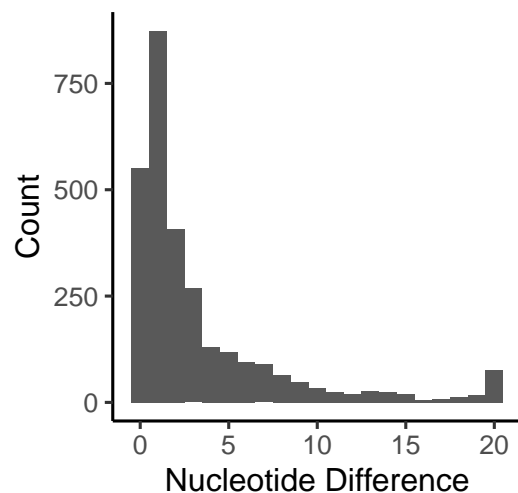
IGHV3-33*06

643 sequences assigned
22 (3.4%) exact matches, in which:
21 unique CDR3
4 unique J



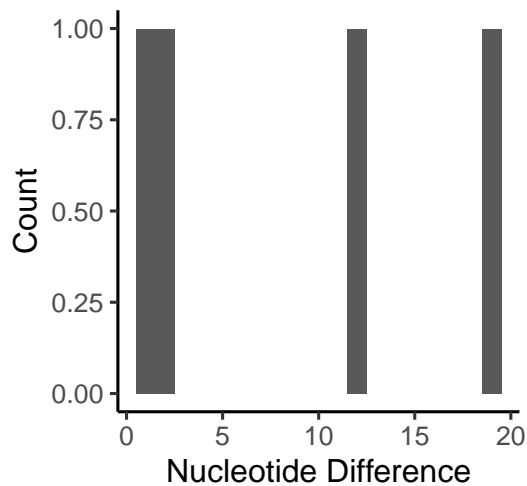
IGHV3–33*08

3779 sequences assigned
552 (14.6%) exact matches, in which:
339 unique CDR3
7 unique J



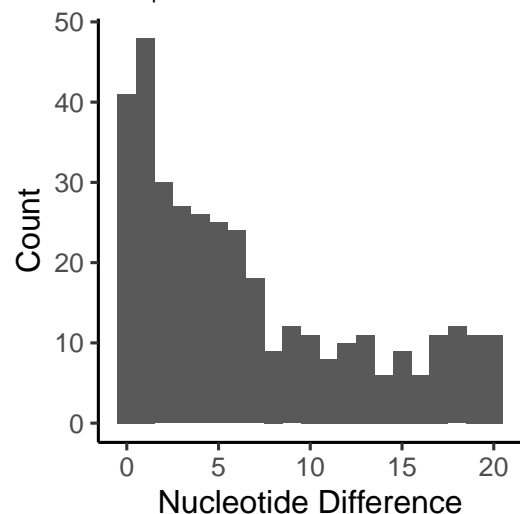
IGHV3–47*02

4 sequences assigned
No exact matches.



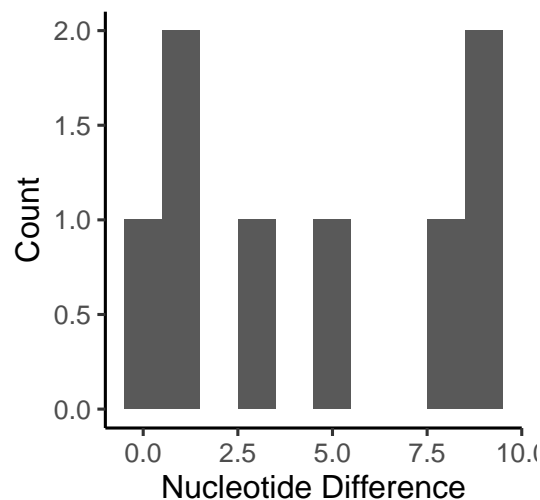
IGHV3–48*04

668 sequences assigned
41 (6.1%) exact matches, in which:
36 unique CDR3
6 unique J



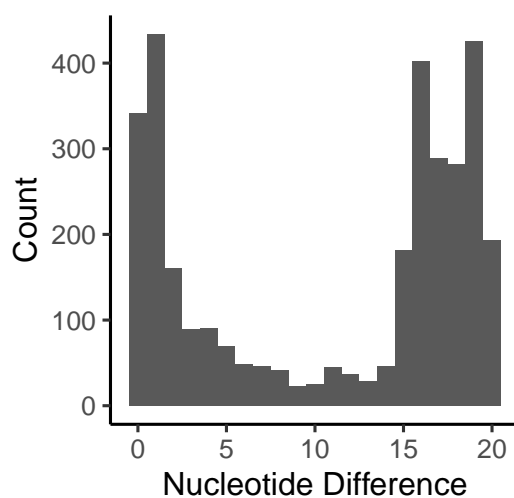
IGHV3–35*01

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



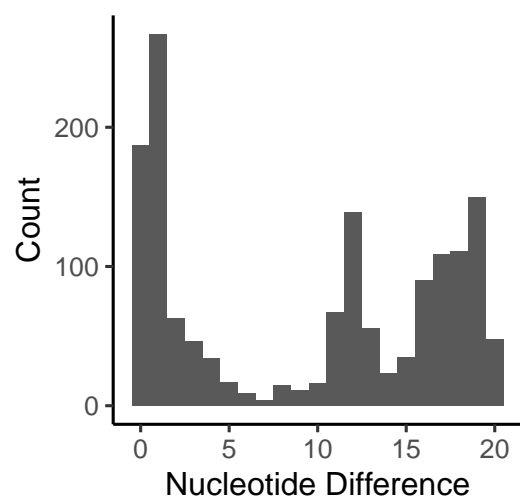
IGHV3–48*01

4560 sequences assigned
342 (7.5%) exact matches, in which:
240 unique CDR3
7 unique J



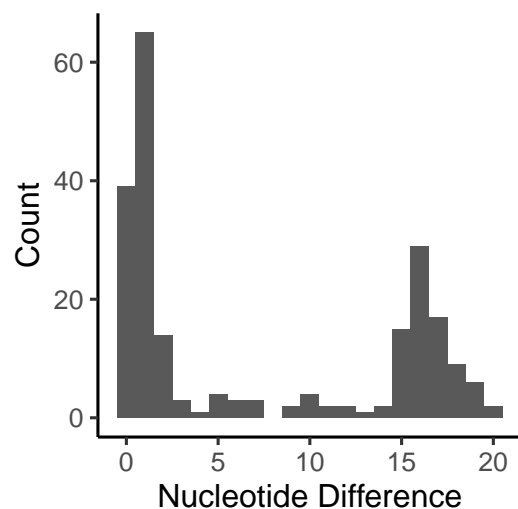
IGHV3–49*03_05

2138 sequences assigned
187 (8.7%) exact matches, in which:
110 unique CDR3
6 unique J



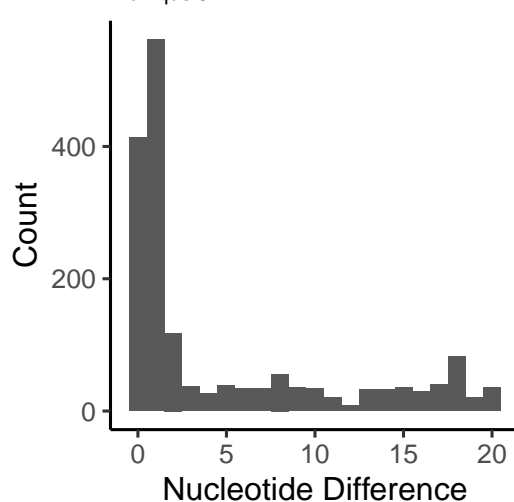
IGHV3–43*01

532 sequences assigned
39 (7.3%) exact matches, in which:
21 unique CDR3
2 unique J



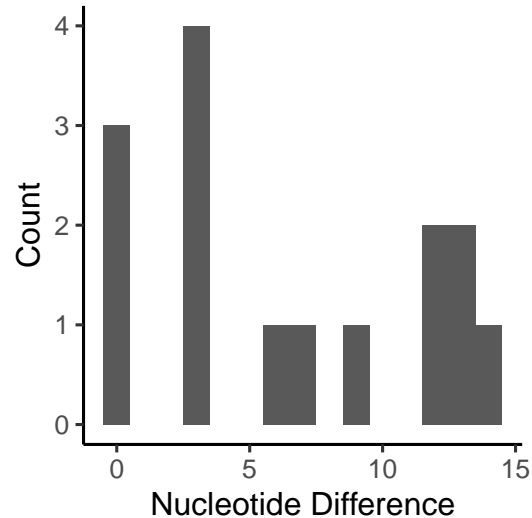
IGHV3–48*02

2819 sequences assigned
414 (14.7%) exact matches, in which:
242 unique CDR3
7 unique J



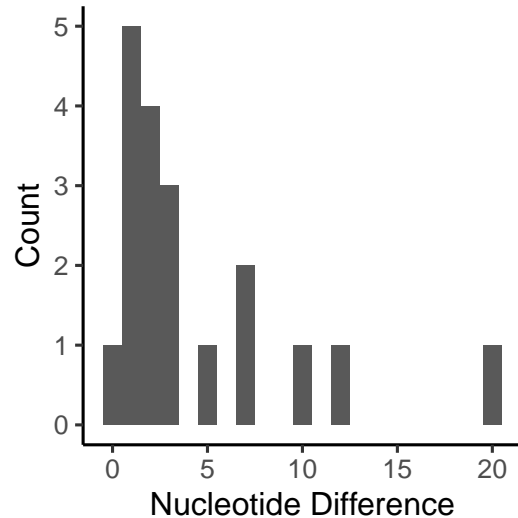
IGHV3–52*01_03

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



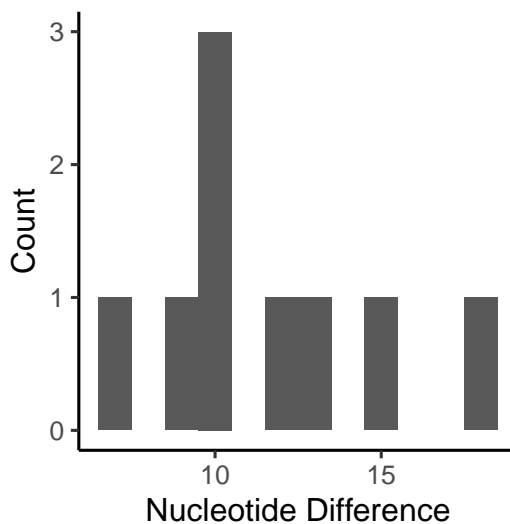
IGHV3-53*05

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



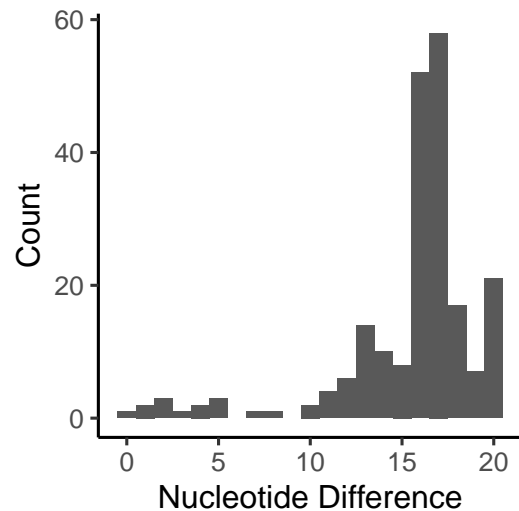
IGHV3-66*01

13 sequences assigned
No exact matches.



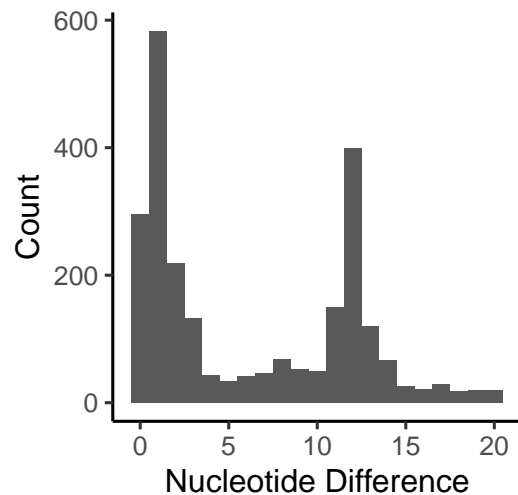
IGHV3-72*01

1094 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



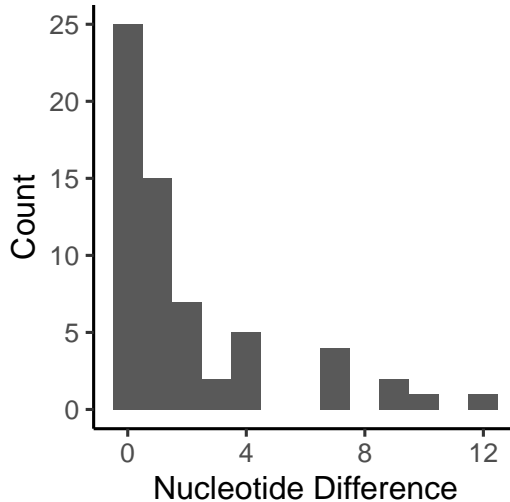
IGHV3-53*01_02

3046 sequences assigned
296 (9.7%) exact matches, in which:
181 unique CDR3
7 unique J



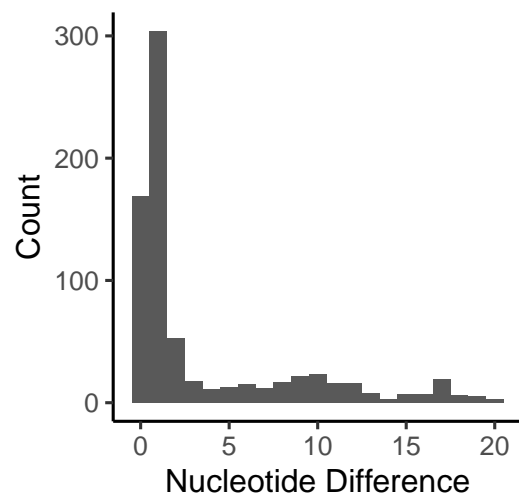
IGHV3-66*03

62 sequences assigned
25 (40.3%) exact matches, in which:
25 unique CDR3
5 unique J



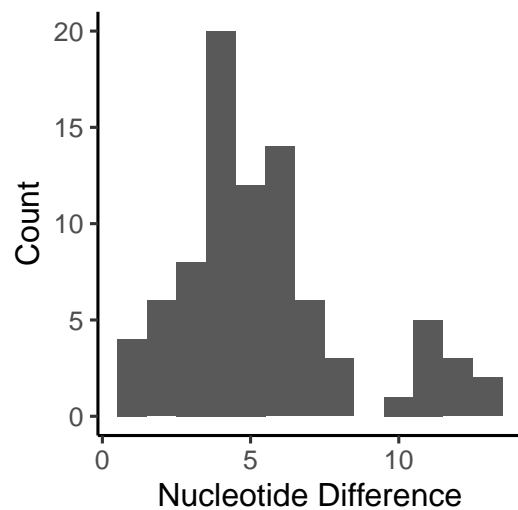
IGHV3-73*01_02

1672 sequences assigned
169 (10.1%) exact matches, in which:
104 unique CDR3
5 unique J



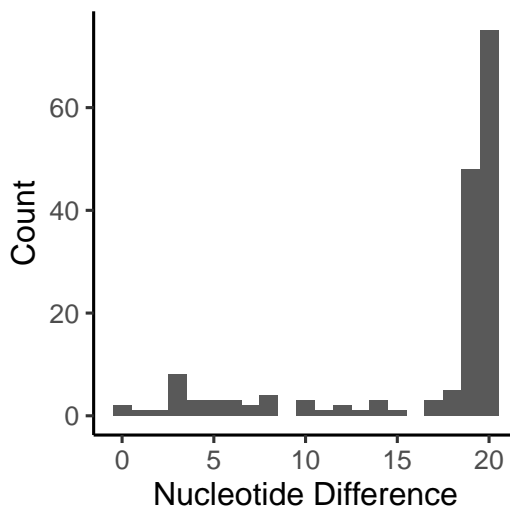
IGHV3-64*04

88 sequences assigned
No exact matches.



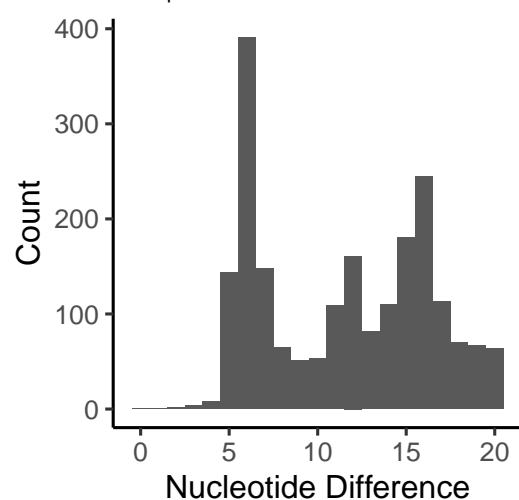
IGHV3-69-1*01

240 sequences assigned
2 (0.8%) exact matches, in which:
2 unique CDR3
2 unique J



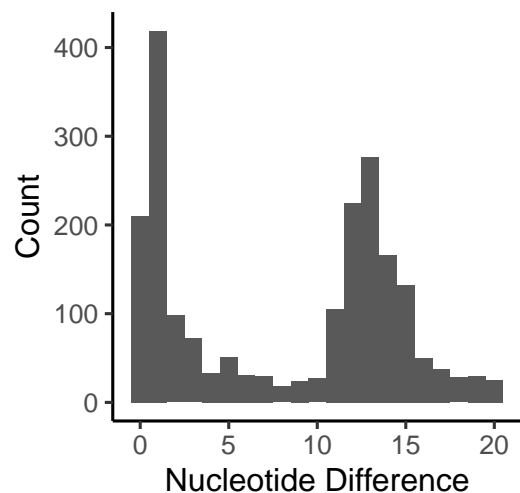
IGHV3-74*03

5318 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



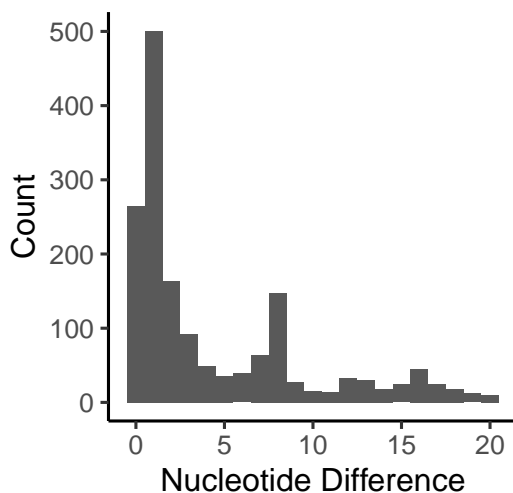
IGHV3-74*01_02

2730 sequences assigned
210 (7.7%) exact matches, in which:
137 unique CDR3
7 unique J



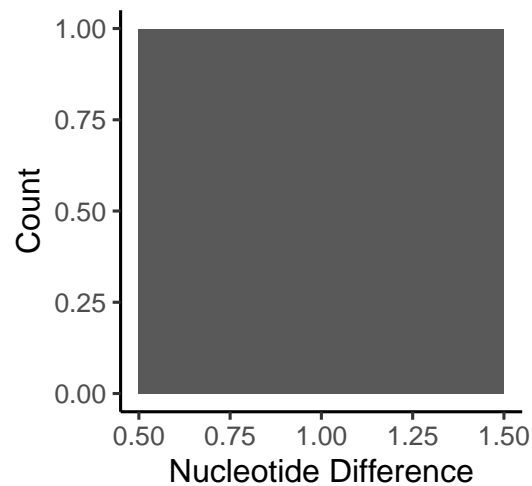
IGHV4-4*07

2409 sequences assigned
265 (11%) exact matches, in which:
188 unique CDR3
6 unique J



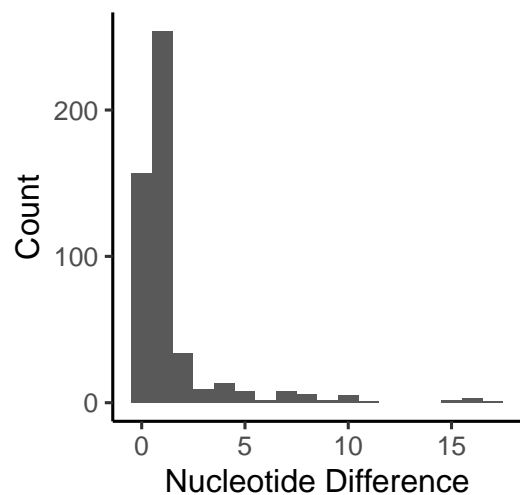
IGHV4-30-4*01

256 sequences assigned
No exact matches.



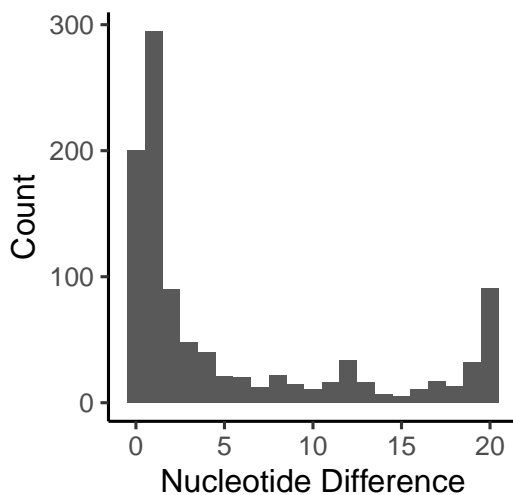
IGHV3-64D*06

624 sequences assigned
157 (25.2%) exact matches, in which:
90 unique CDR3
5 unique J



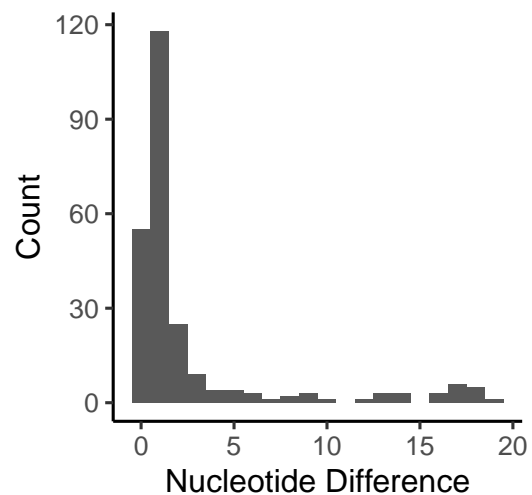
IGHV4-4*02_03

1375 sequences assigned
200 (14.5%) exact matches, in which:
149 unique CDR3
6 unique J



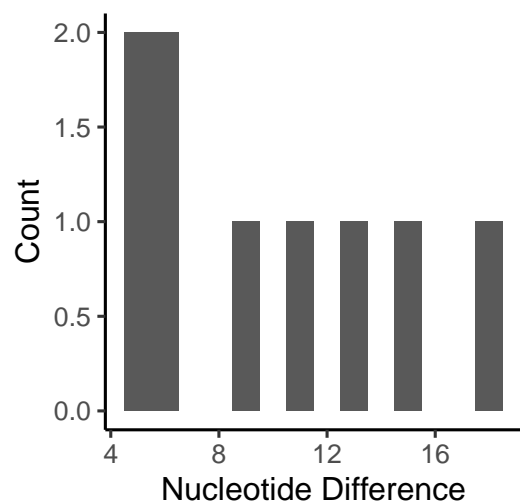
IGHV4-30-2*01

1080 sequences assigned
55 (5.1%) exact matches, in which:
32 unique CDR3
3 unique J



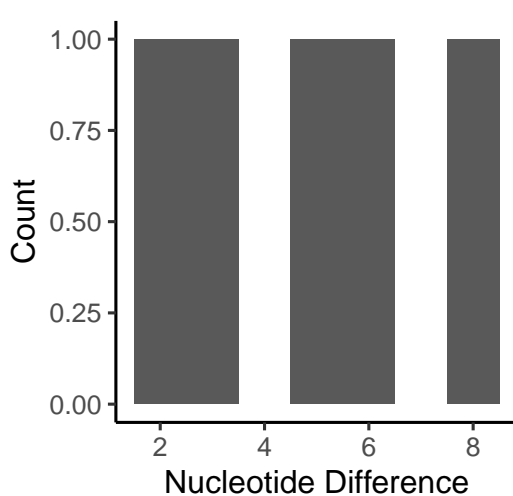
IGHV3-NL1*01

20 sequences assigned
No exact matches.



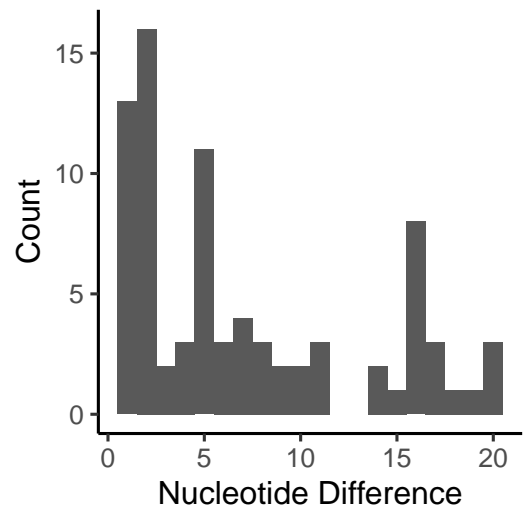
IGHV4-28*03

5 sequences assigned
No exact matches.



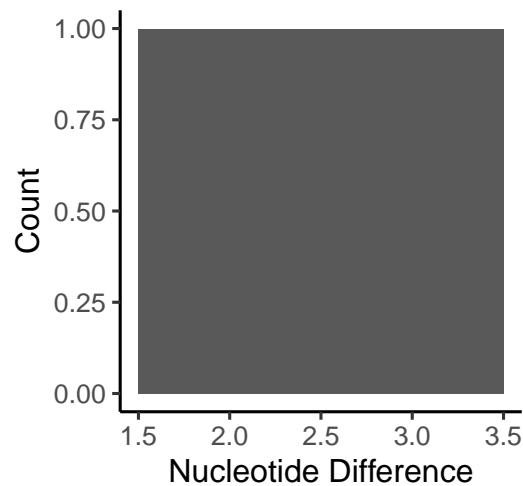
IGHV4-30-2*03

864 sequences assigned
No exact matches.



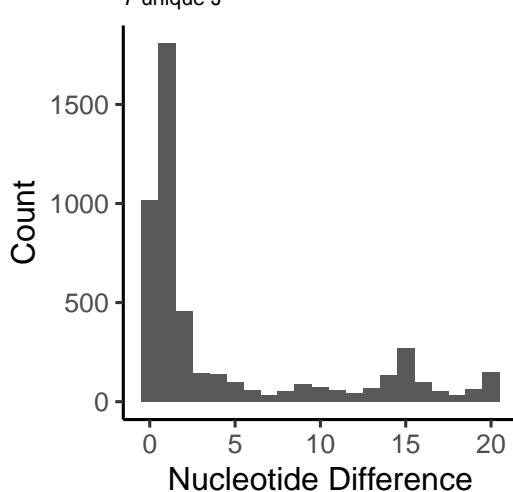
IGHV4-30-4*05

2 sequences assigned
No exact matches.



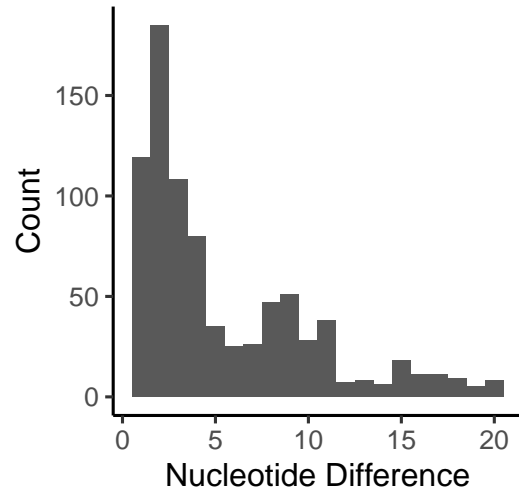
IGHV4-34*01_02

5504 sequences assigned
1015 (18.4%) exact matches, in which:
636 unique CDR3
7 unique J



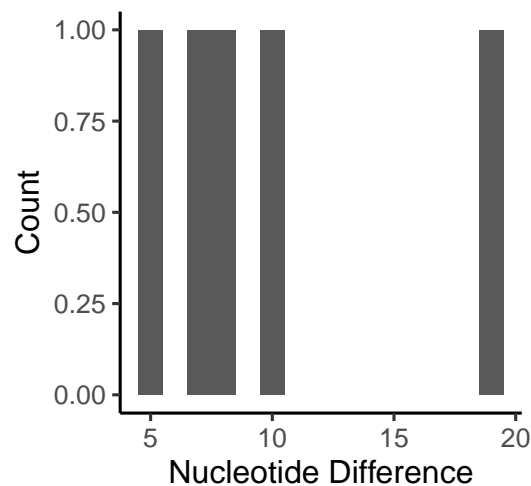
IGHV4-39*07

1239 sequences assigned
No exact matches.



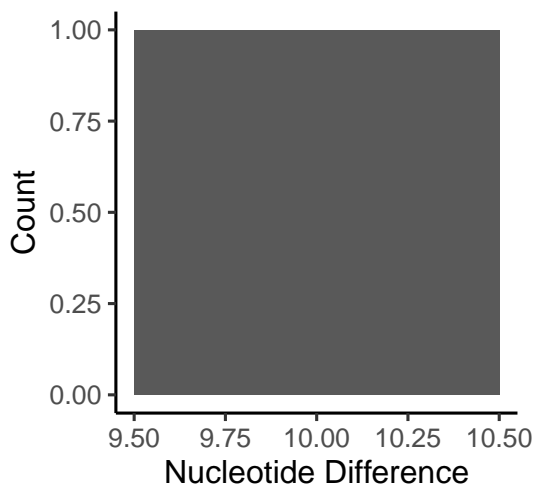
IGHV4-30-4*08

7 sequences assigned
No exact matches.



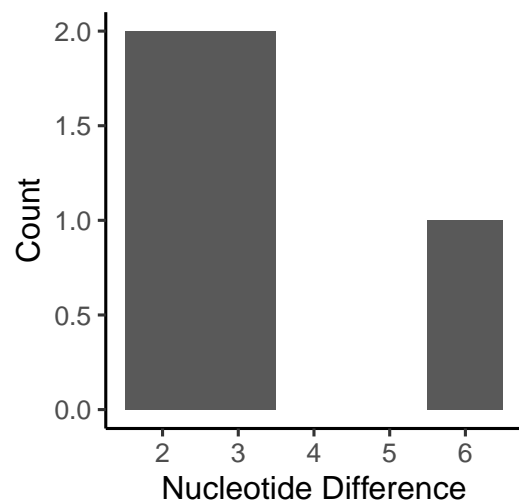
IGHV4-38-2*01

5 sequences assigned
No exact matches.



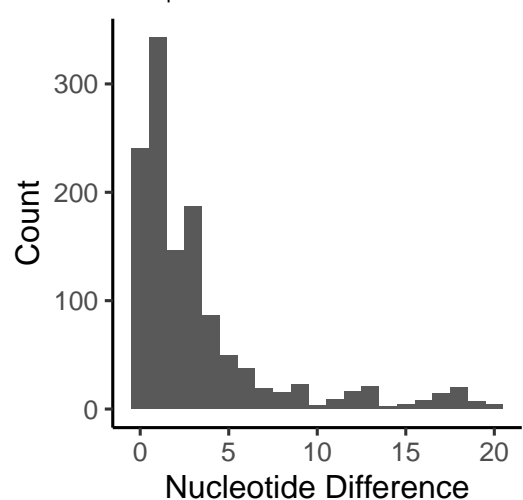
IGHV4-55*09

5 sequences assigned
No exact matches.



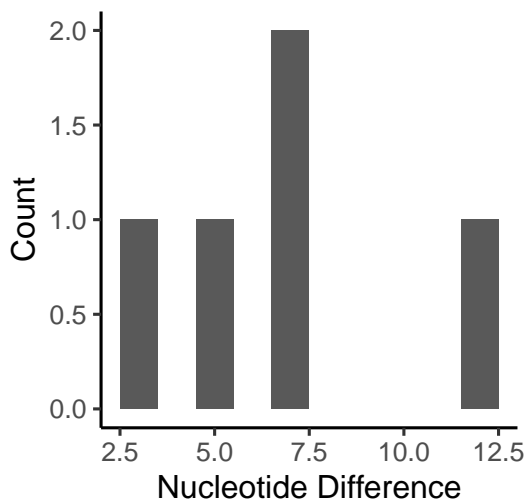
IGHV4-31*02

1769 sequences assigned
240 (13.6%) exact matches, in which:
191 unique CDR3
6 unique J



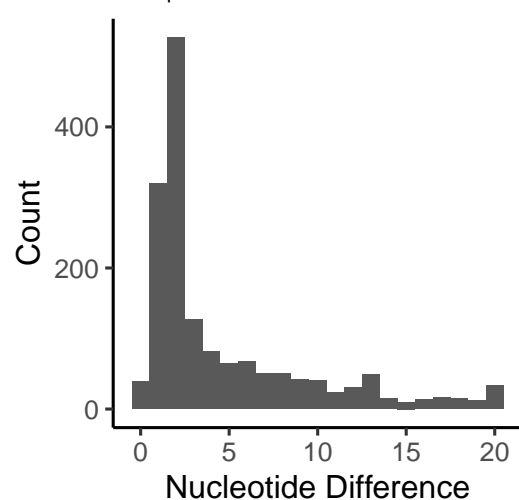
IGHV4-38-2*02

6 sequences assigned
No exact matches.



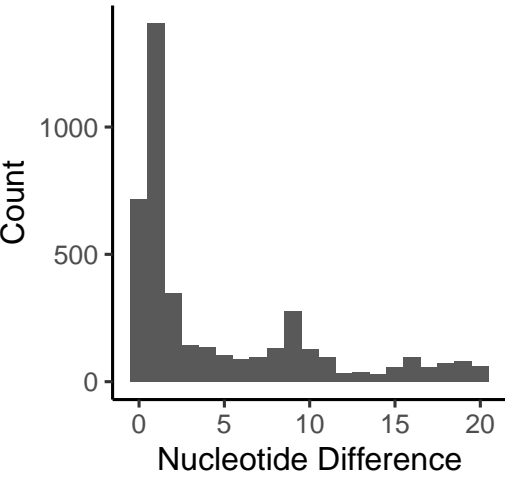
IGHV4-59*12

2184 sequences assigned
39 (1.8%) exact matches, in which:
38 unique CDR3
6 unique J



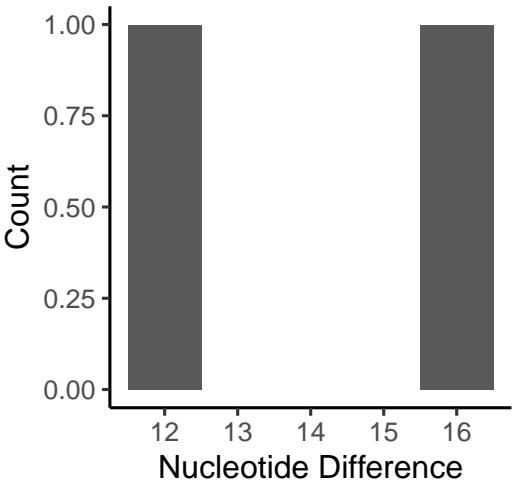
IGHV4-59*01_07

5671 sequences assigned
717 (12.6%) exact matches, in which:
507 unique CDR3
7 unique J



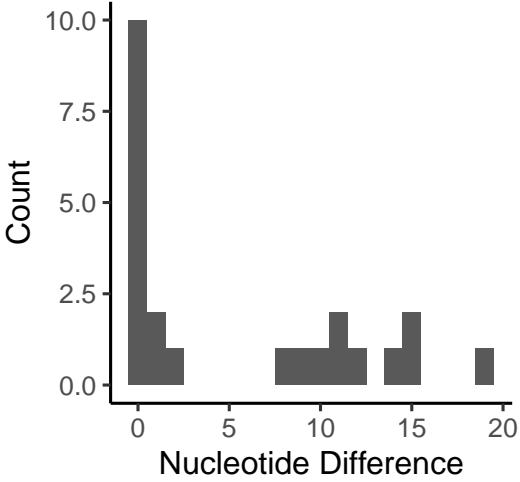
IGHV1/OR15-2*02_03

2 sequences assigned
No exact matches.



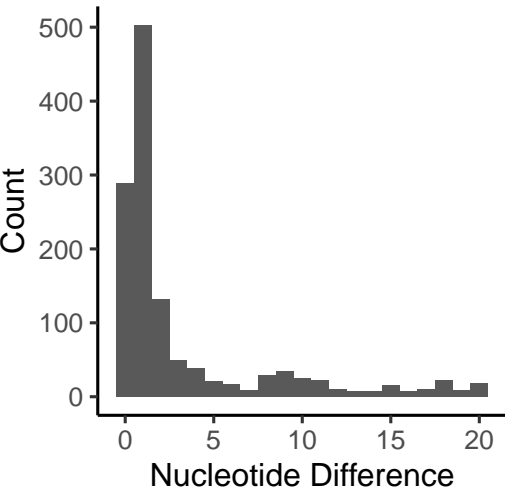
IGHV5-51*04

34 sequences assigned
10 (29.4%) exact matches, in which:
9 unique CDR3
4 unique J



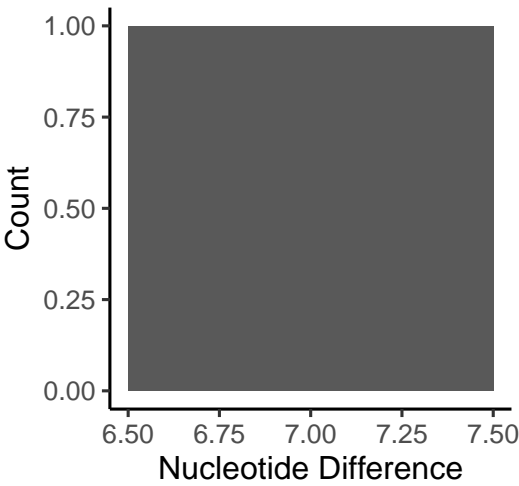
IGHV4-61*01

1490 sequences assigned
289 (19.4%) exact matches, in which:
195 unique CDR3
6 unique J



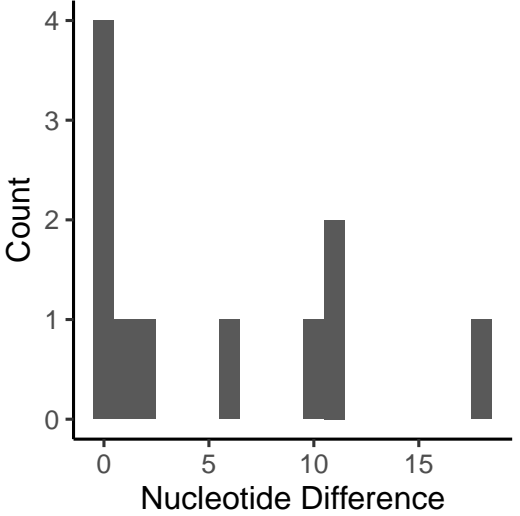
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



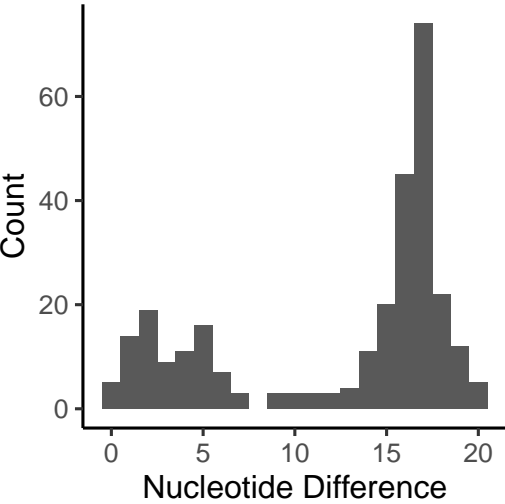
IGHV5-51*06

11 sequences assigned
4 (36.4%) exact matches, in which:
4 unique CDR3
3 unique J



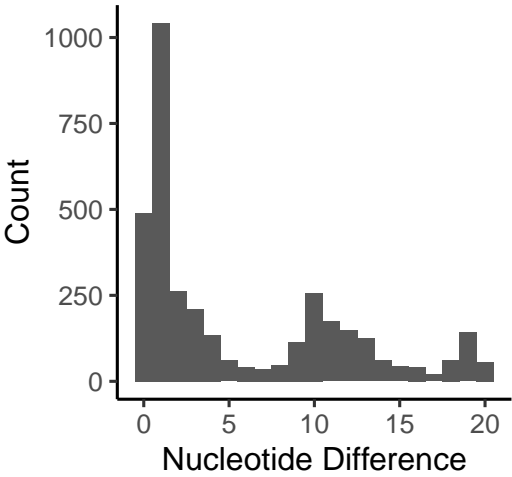
IGHV4-61*08

335 sequences assigned
5 (1.5%) exact matches, in which:
5 unique CDR3
3 unique J



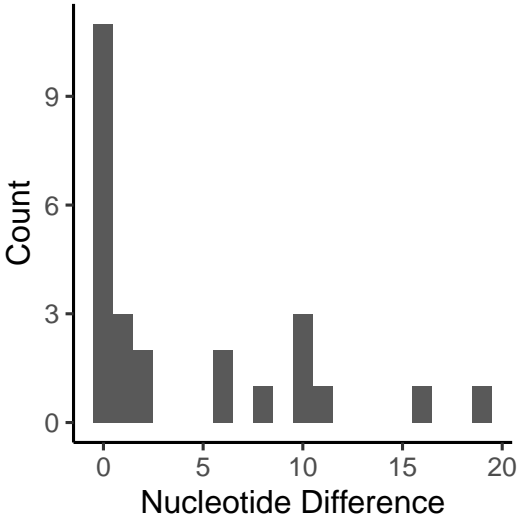
IGHV5-10-1*01_03

3750 sequences assigned
489 (13%) exact matches, in which:
285 unique CDR3
5 unique J



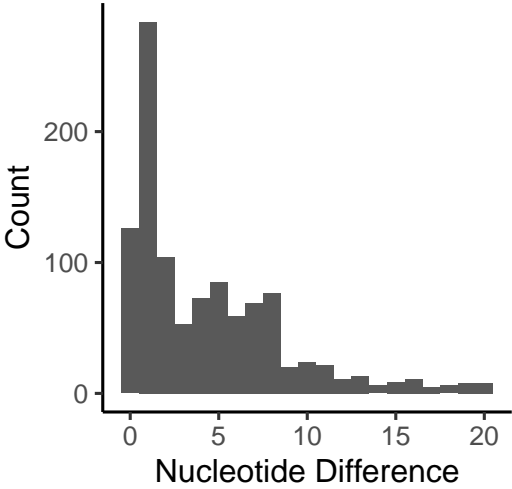
IGHV5-51*07

33 sequences assigned
11 (33.3%) exact matches, in which:
10 unique CDR3
4 unique J



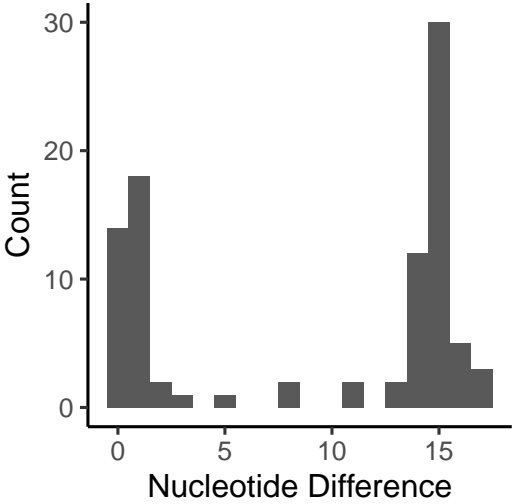
IGHV6-1*01_02

1130 sequences assigned
126 (11.2%) exact matches, in which:
102 unique CDR3
6 unique J



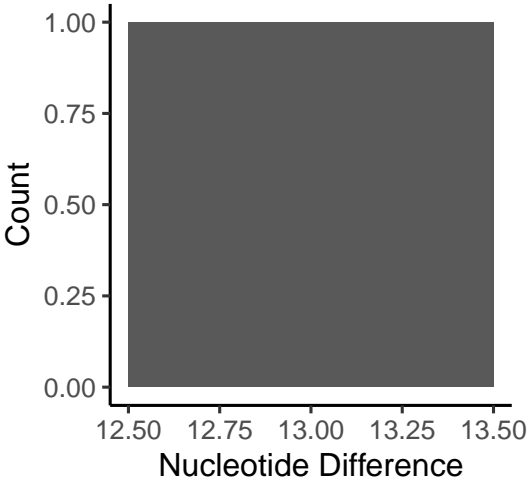
IGHV7-4-1*01

92 sequences assigned
14 (15.2%) exact matches, in which:
10 unique CDR3
1 unique J

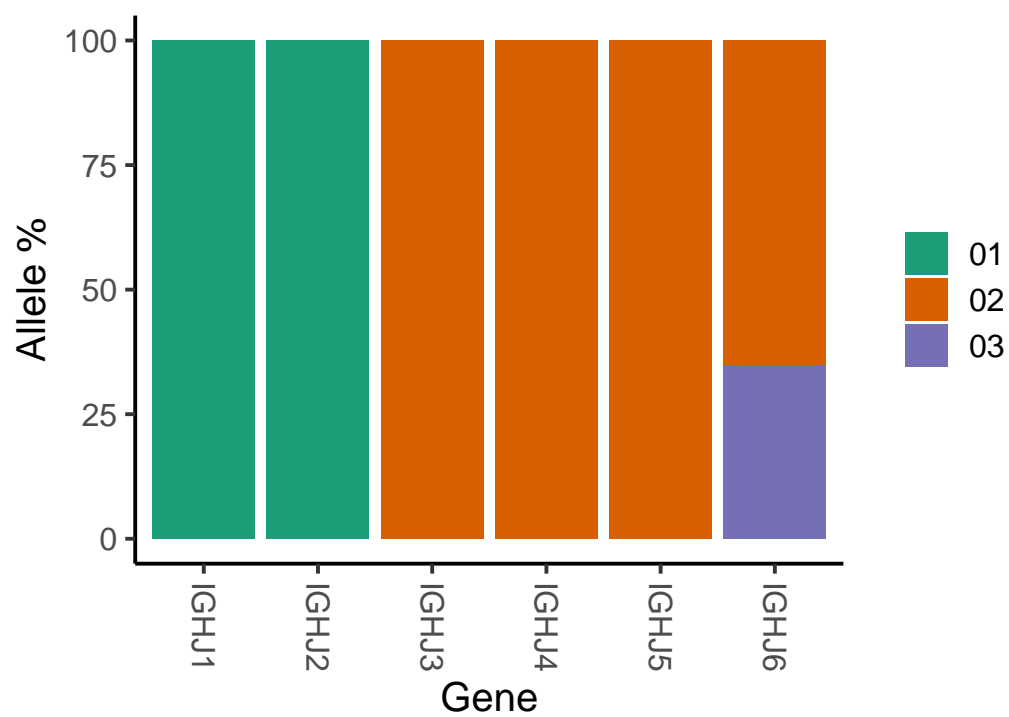


IGHV7-4-1*02

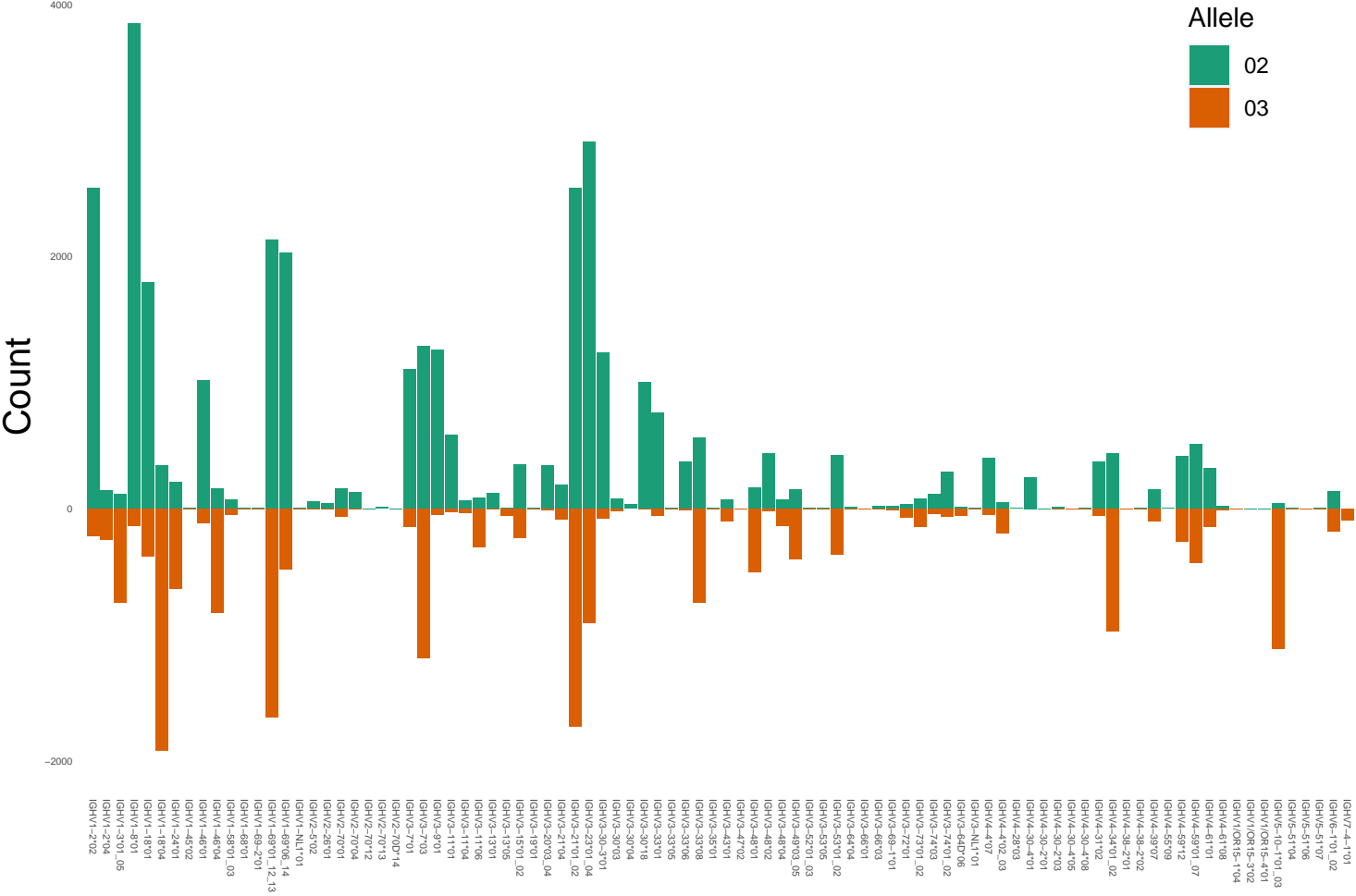
1 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.