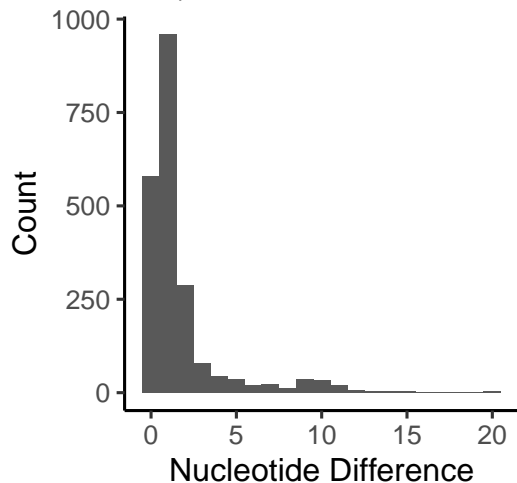


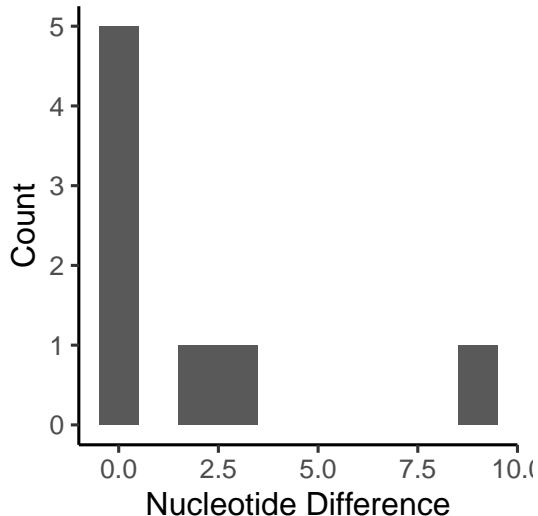
IGHV1-2*04

2164 sequences assigned
580 (26.8%) exact matches, in which:
438 unique CDR3
6 unique J



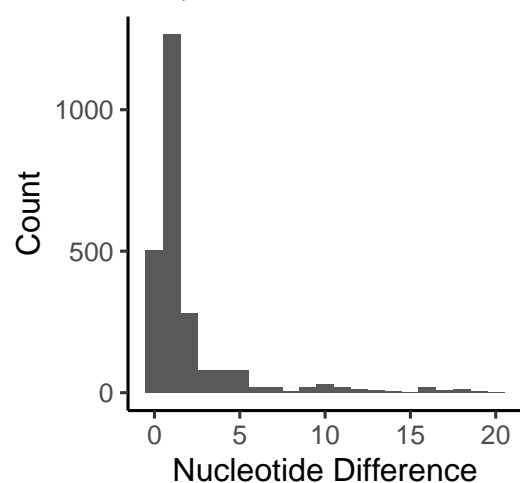
IGHV1-8*01

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



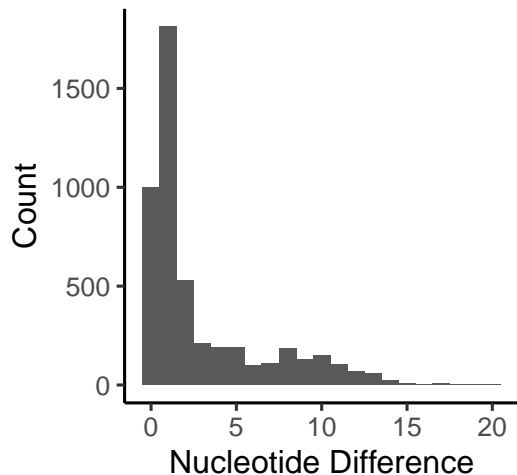
IGHV1-24*01

2469 sequences assigned
502 (20.3%) exact matches, in which:
318 unique CDR3
7 unique J



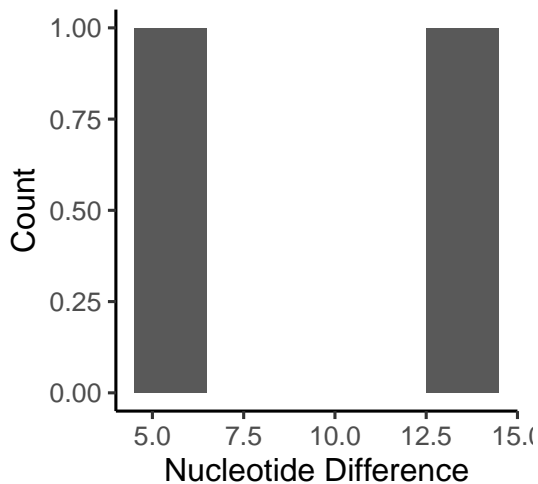
IGHV1-2*06

4885 sequences assigned
1000 (20.5%) exact matches, in which:
685 unique CDR3
7 unique J



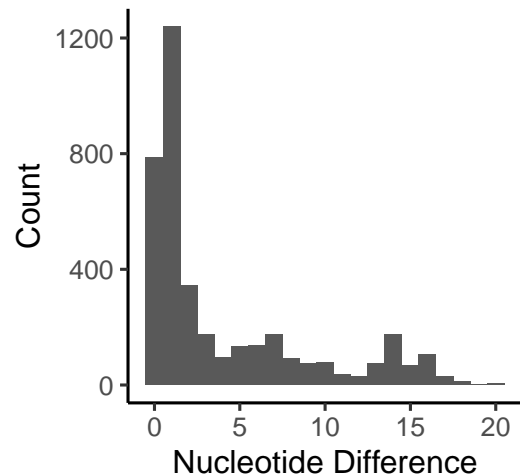
IGHV1-8*02

5 sequences assigned
No exact matches.



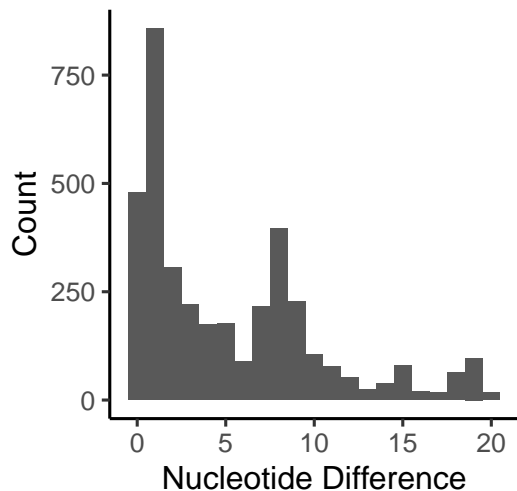
IGHV1-46*01

3874 sequences assigned
788 (20.3%) exact matches, in which:
585 unique CDR3
7 unique J



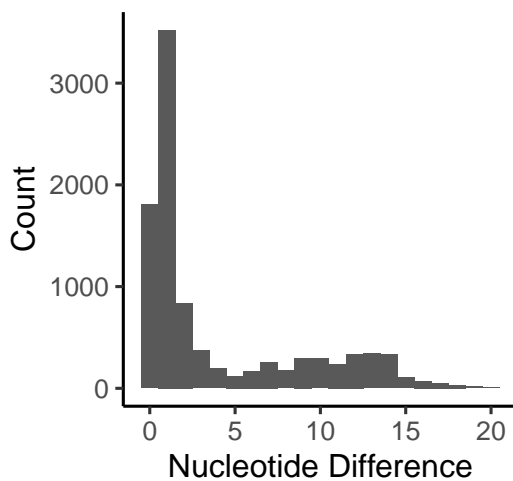
IGHV1-3*01_05

3761 sequences assigned
479 (12.7%) exact matches, in which:
354 unique CDR3
7 unique J



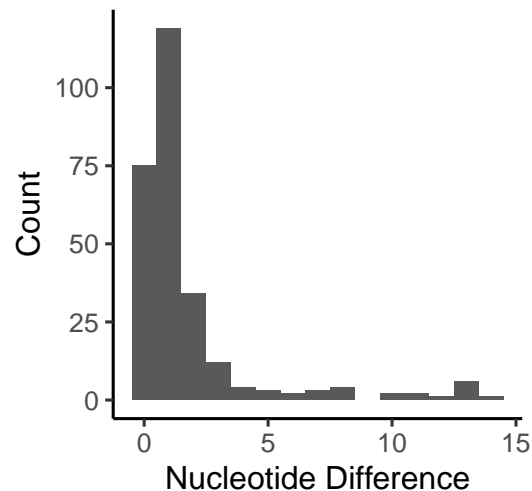
IGHV1-18*01

10329 sequences assigned
1808 (17.5%) exact matches, in which:
1242 unique CDR3
7 unique J



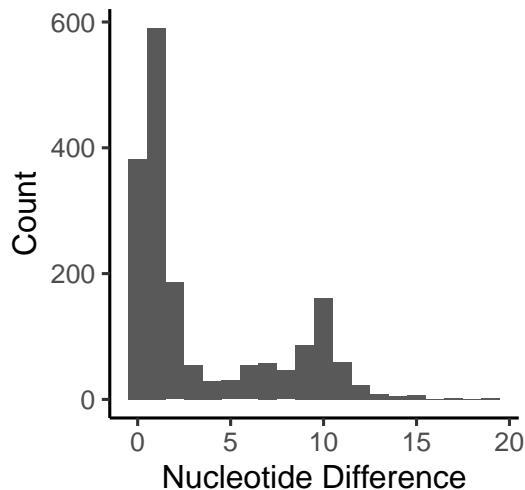
IGHV1-58*02

268 sequences assigned
75 (28%) exact matches, in which:
63 unique CDR3
5 unique J



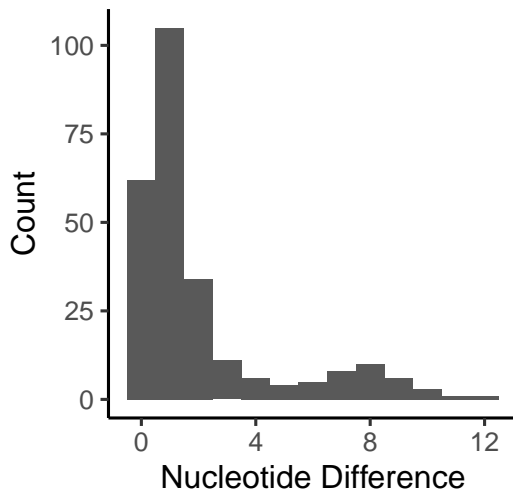
IGHV1–69*04_09

1789 sequences assigned
382 (21.4%) exact matches, in which:
315 unique CDR3
7 unique J



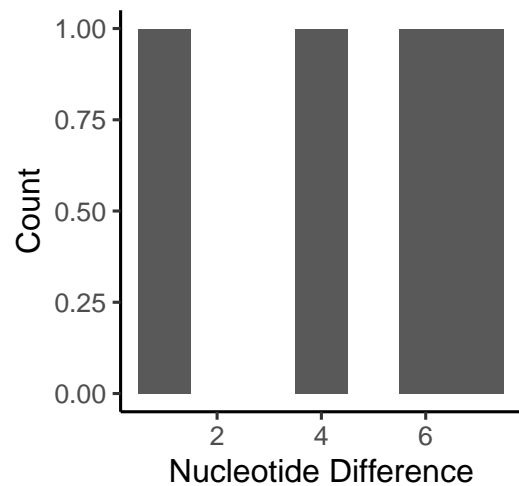
IGHV2–26*01

258 sequences assigned
62 (24%) exact matches, in which:
42 unique CDR3
5 unique J



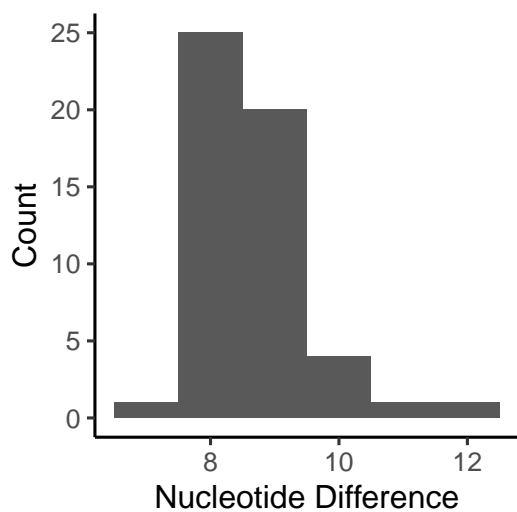
IGHV2–70D*14

4 sequences assigned
No exact matches.



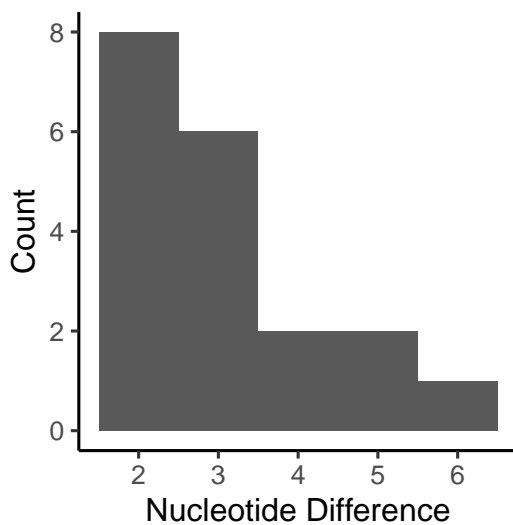
IGHV1–NL1*01

52 sequences assigned
No exact matches.



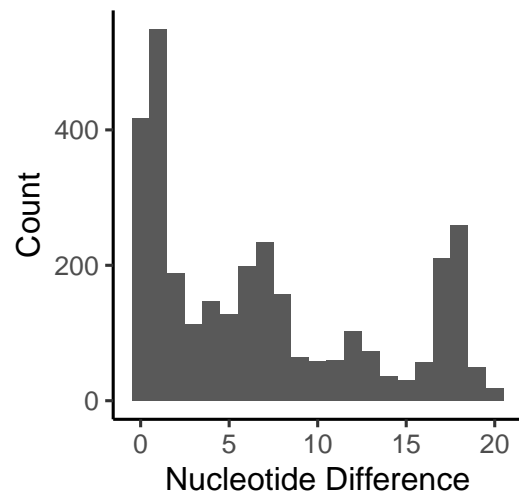
IGHV2–70*12

19 sequences assigned
No exact matches.



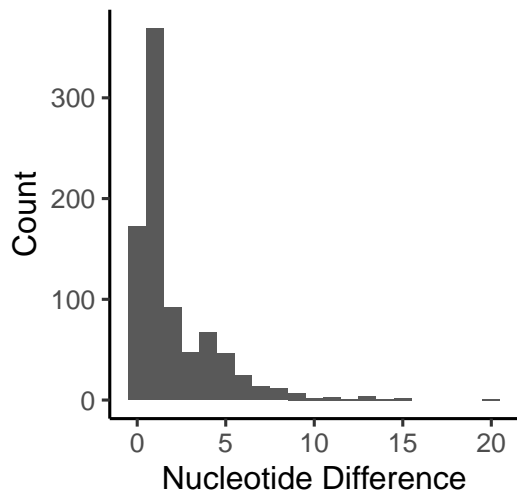
IGHV3–7*01

3570 sequences assigned
417 (11.7%) exact matches, in which:
278 unique CDR3
6 unique J



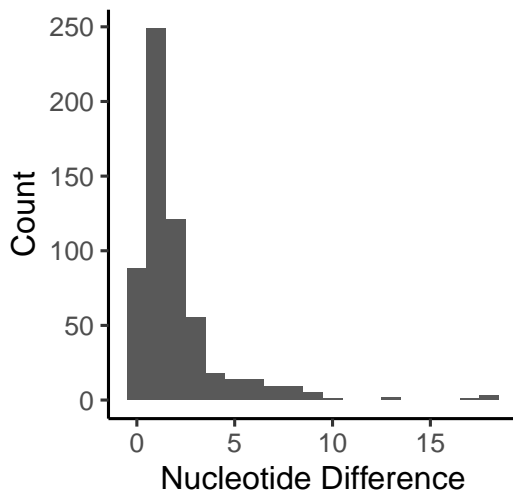
IGHV2–5*02

862 sequences assigned
172 (20%) exact matches, in which:
106 unique CDR3
6 unique J



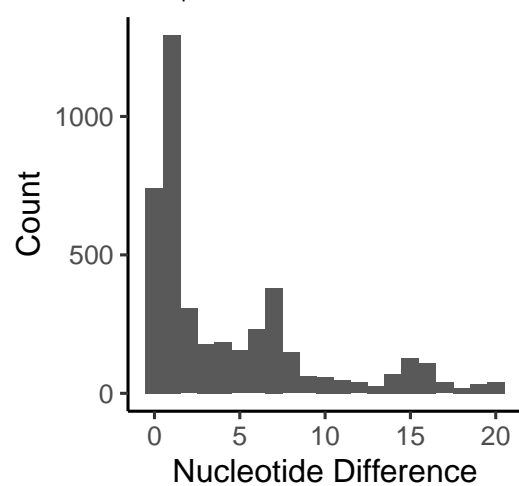
IGHV2–70*11_15

590 sequences assigned
88 (14.9%) exact matches, in which:
51 unique CDR3
4 unique J



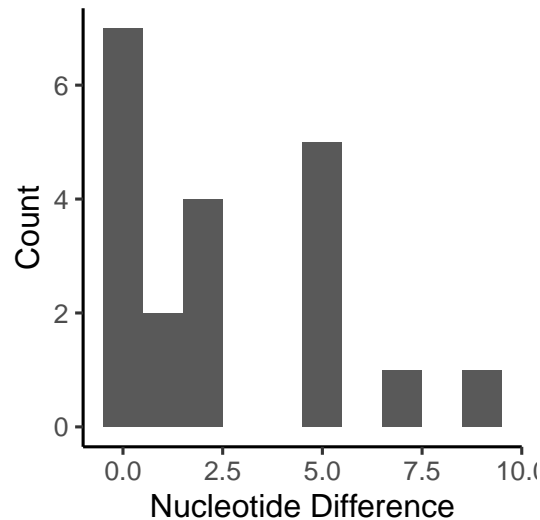
IGHV3–7*03

5450 sequences assigned
742 (13.6%) exact matches, in which:
476 unique CDR3
7 unique J



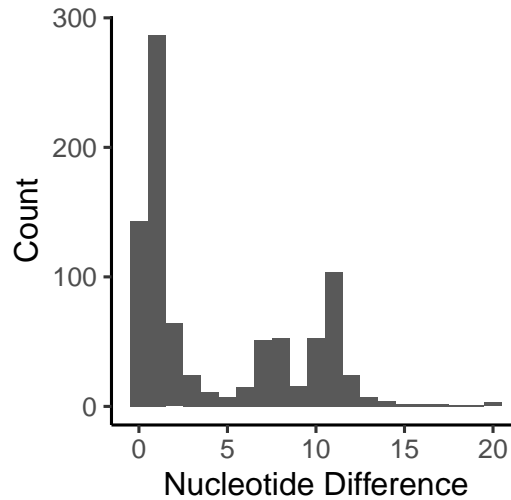
IGHV3-9*01

20 sequences assigned
7 (35%) exact matches, in which:
4 unique CDR3
3 unique J



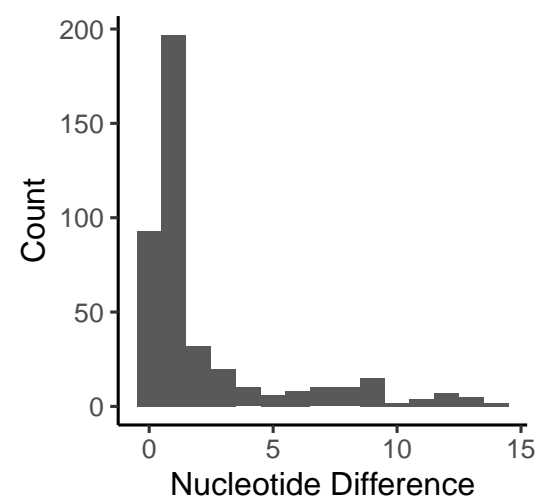
IGHV3-13*04

874 sequences assigned
143 (16.4%) exact matches, in which:
89 unique CDR3
6 unique J



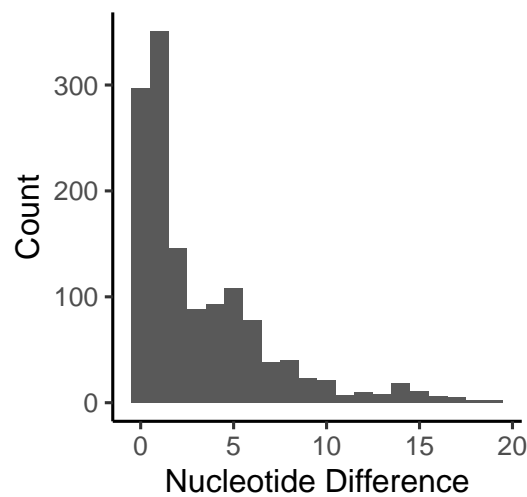
IGHV3-20*01_02

422 sequences assigned
93 (22%) exact matches, in which:
44 unique CDR3
5 unique J



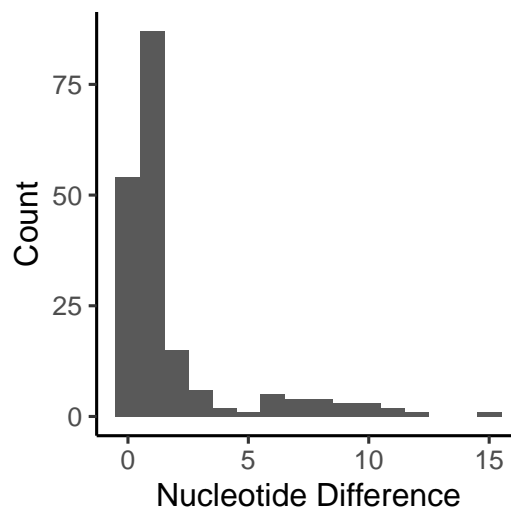
IGHV3-11*06

1356 sequences assigned
297 (21.9%) exact matches, in which:
196 unique CDR3
6 unique J



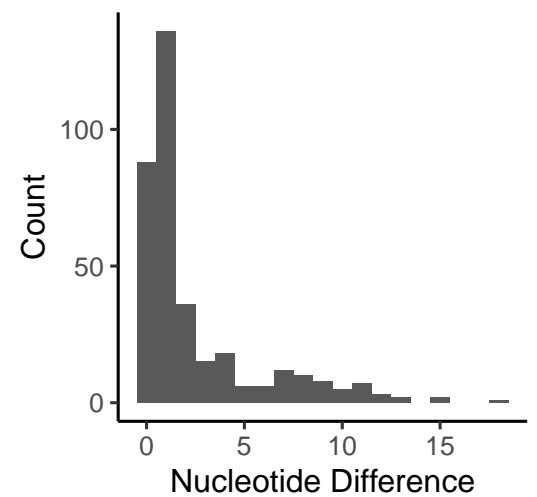
IGHV3-13*05

188 sequences assigned
54 (28.7%) exact matches, in which:
32 unique CDR3
6 unique J



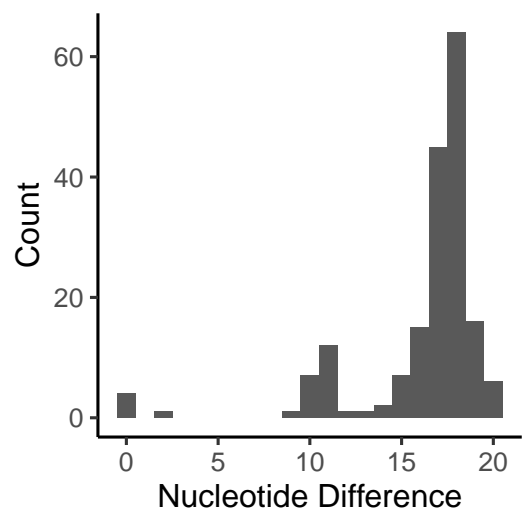
IGHV3-20*03_04

355 sequences assigned
88 (24.8%) exact matches, in which:
61 unique CDR3
4 unique J



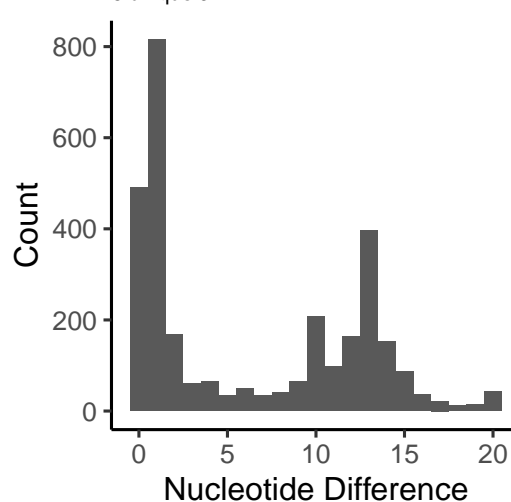
IGHV3-13*01

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



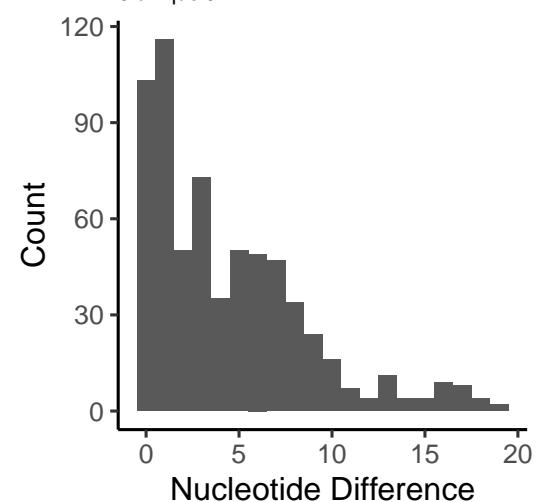
IGHV3-15*01_02

3705 sequences assigned
490 (13.2%) exact matches, in which:
270 unique CDR3
6 unique J



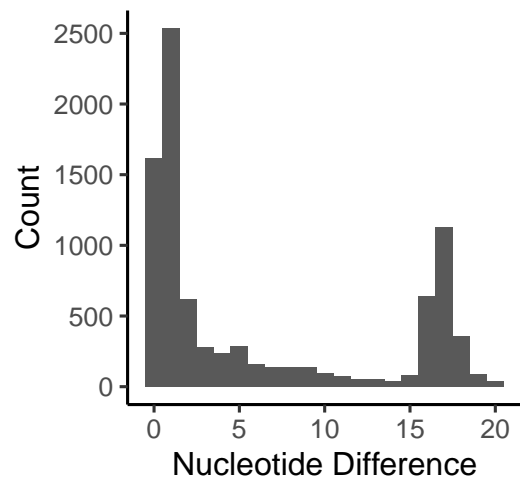
IGHV3-21*04

656 sequences assigned
103 (15.7%) exact matches, in which:
85 unique CDR3
6 unique J



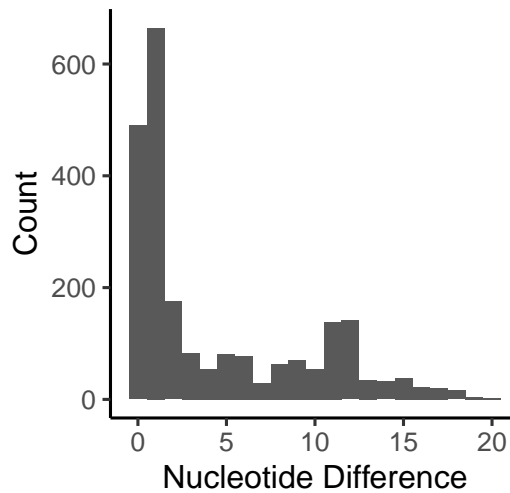
IGHV3-21*01_02

8846 sequences assigned
1618 (18.3%) exact matches, in which:
900 unique CDR3
7 unique J



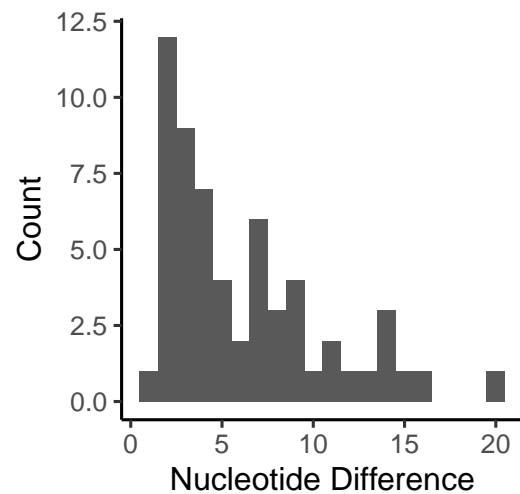
IGHV3-30*01

2624 sequences assigned
490 (18.7%) exact matches, in which:
311 unique CDR3
7 unique J



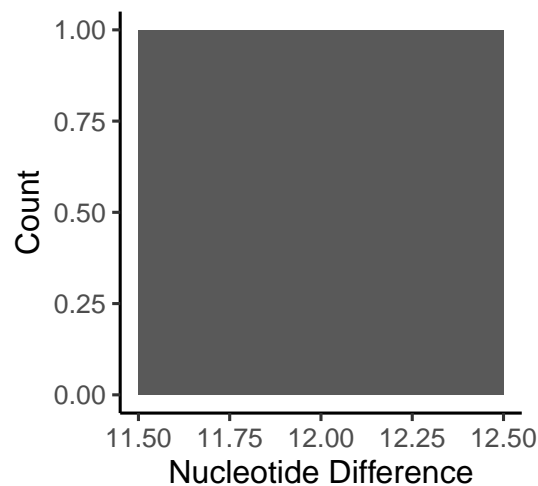
IGHV3-30-3*02

1370 sequences assigned
No exact matches.



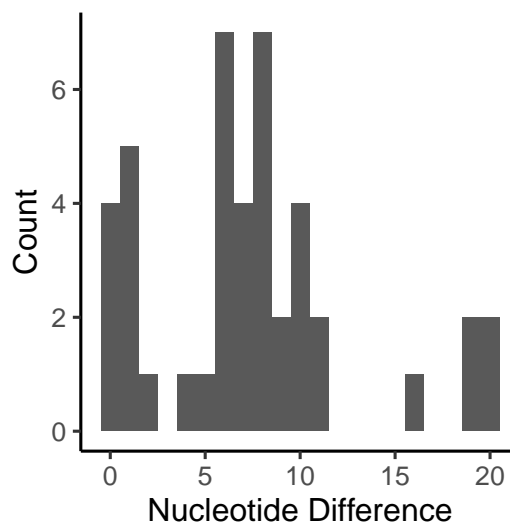
IGHV3-22*01_02

1 sequences assigned
No exact matches.



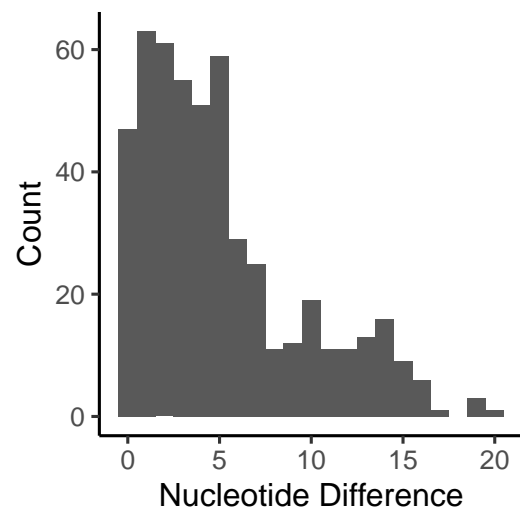
IGHV3-30-3*01

1555 sequences assigned
4 (0.3%) exact matches, in which:
3 unique CDR3
1 unique J



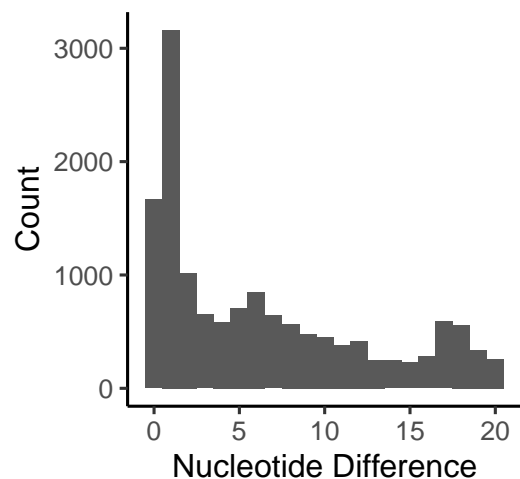
IGHV3-30*07

513 sequences assigned
47 (9.2%) exact matches, in which:
45 unique CDR3
6 unique J



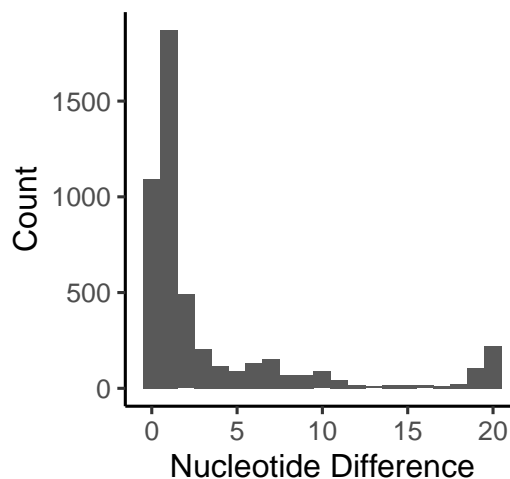
IGHV3-23*01_04

22196 sequences assigned
1665 (7.5%) exact matches, in which:
919 unique CDR3
7 unique J



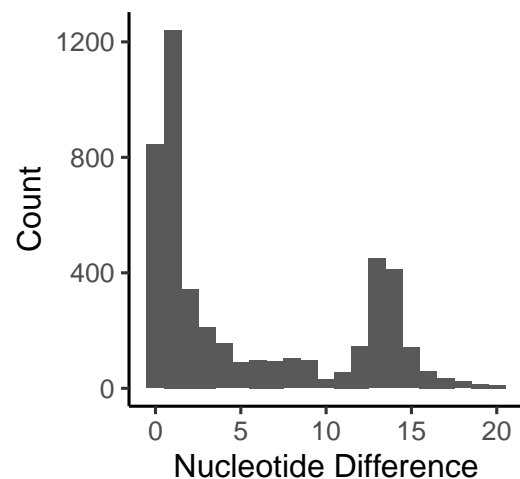
IGHV3-30*02

9192 sequences assigned
1094 (11.9%) exact matches, in which:
678 unique CDR3
7 unique J



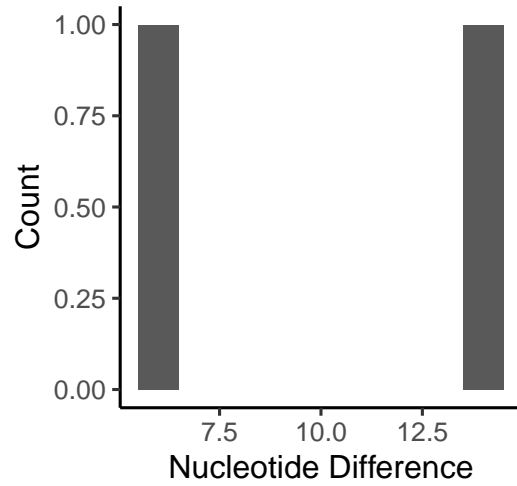
IGHV3-33*01

5105 sequences assigned
845 (16.6%) exact matches, in which:
555 unique CDR3
7 unique J



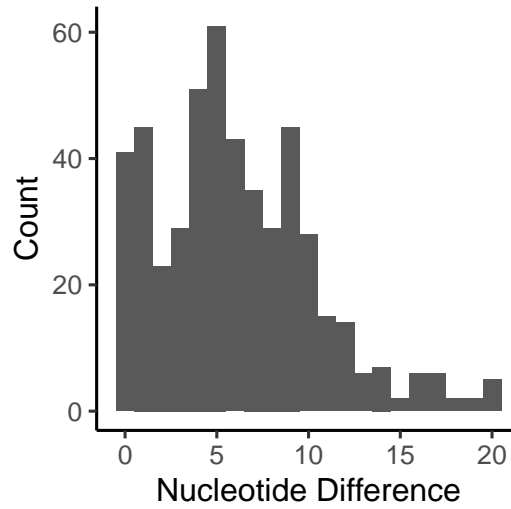
IGHV3-35*01

2 sequences assigned
No exact matches.



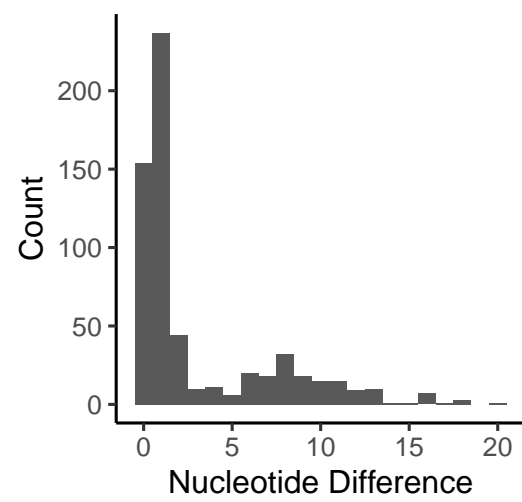
IGHV3-48*01

781 sequences assigned
41 (5.2%) exact matches, in which:
37 unique CDR3
6 unique J



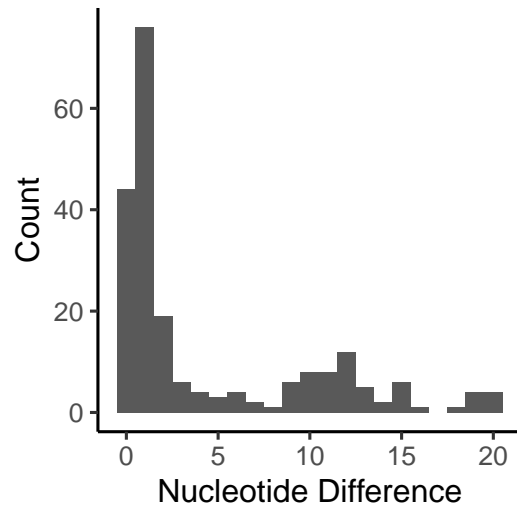
IGHV3-49*03_05

614 sequences assigned
154 (25.1%) exact matches, in which:
104 unique CDR3
6 unique J



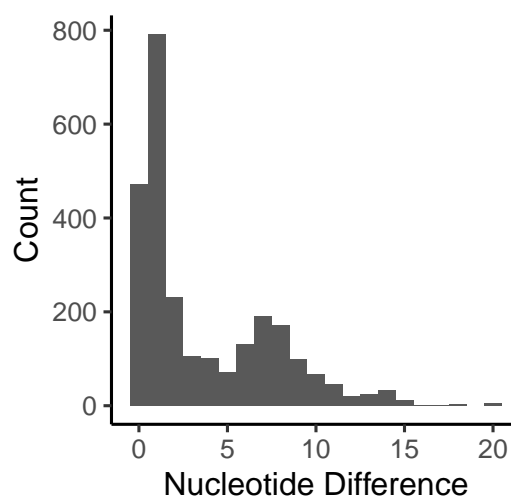
IGHV3-43*01

425 sequences assigned
44 (10.4%) exact matches, in which:
28 unique CDR3
2 unique J



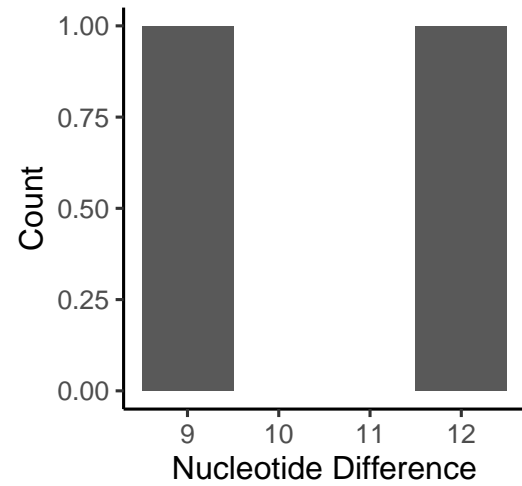
IGHV3-48*02

2639 sequences assigned
472 (17.9%) exact matches, in which:
285 unique CDR3
6 unique J



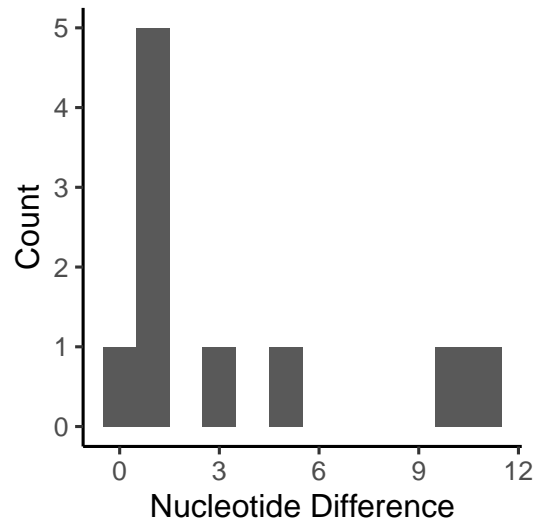
IGHV3-52*01_03

2 sequences assigned
No exact matches.



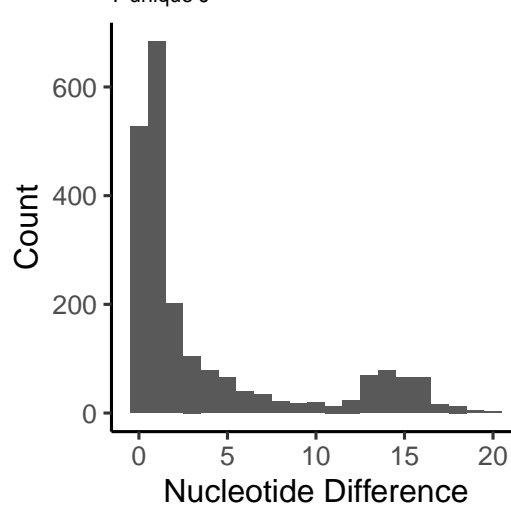
IGHV3-47*01

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



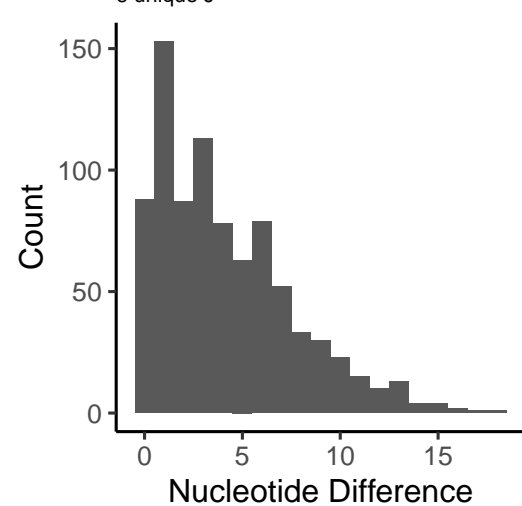
IGHV3-48*04

2535 sequences assigned
527 (20.8%) exact matches, in which:
343 unique CDR3
7 unique J



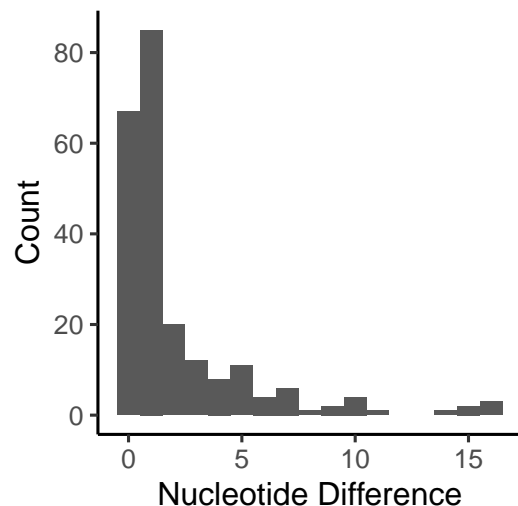
IGHV3-53*01_02

854 sequences assigned
88 (10.3%) exact matches, in which:
59 unique CDR3
6 unique J



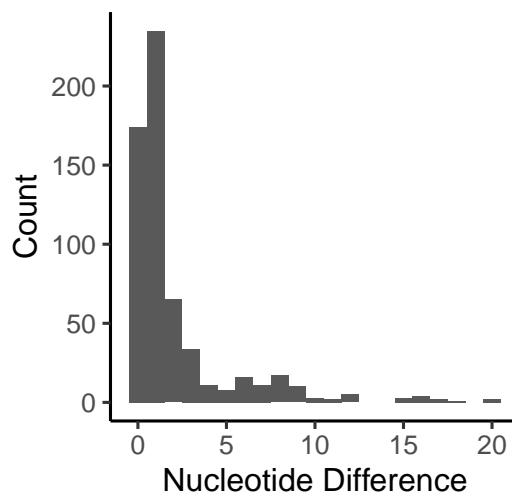
IGHV3-64*01

227 sequences assigned
67 (29.5%) exact matches, in which:
44 unique CDR3
6 unique J



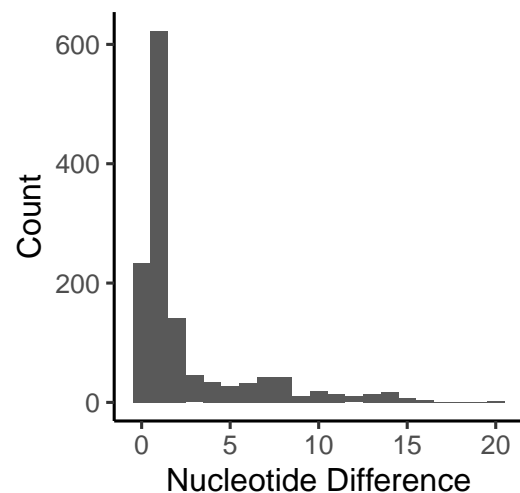
IGHV3-66*02

604 sequences assigned
174 (28.8%) exact matches, in which:
122 unique CDR3
7 unique J



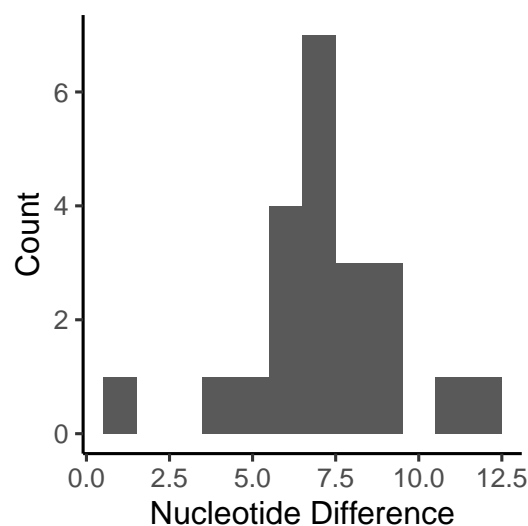
IGHV3-73*01_02

1324 sequences assigned
233 (17.6%) exact matches, in which:
113 unique CDR3
5 unique J



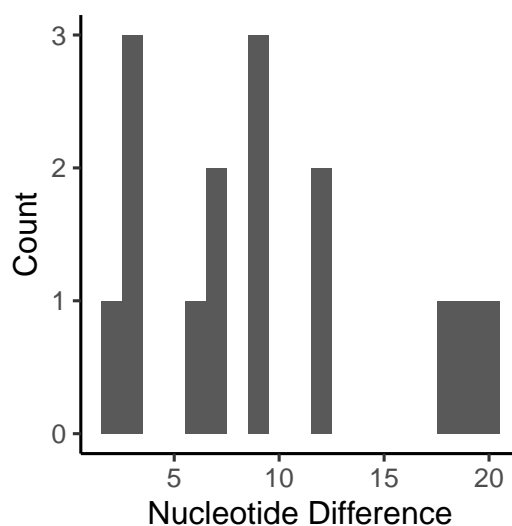
IGHV3-64*04

22 sequences assigned
No exact matches.



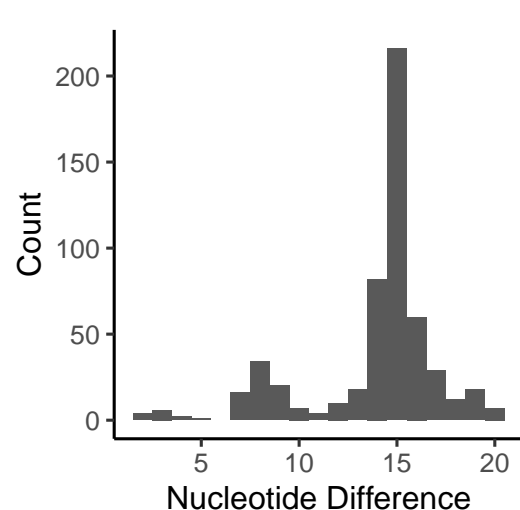
IGHV3-69-1*01

17 sequences assigned
No exact matches.



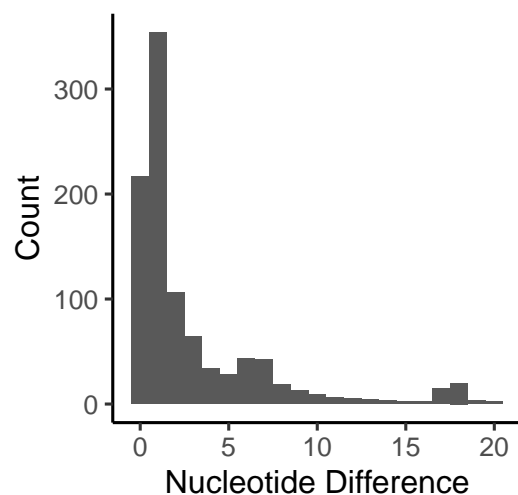
IGHV3-74*03

593 sequences assigned
No exact matches.



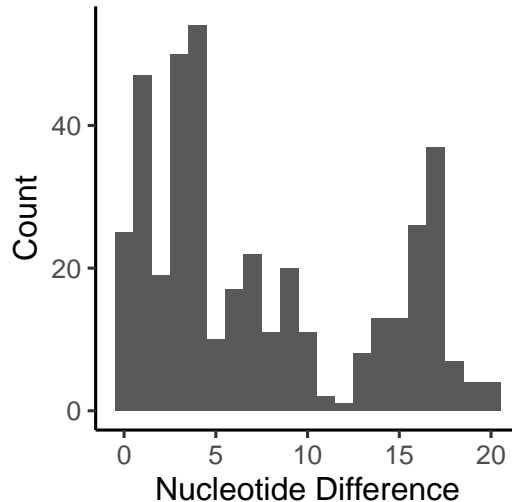
IGHV3-66*01

996 sequences assigned
217 (21.8%) exact matches, in which:
147 unique CDR3
6 unique J



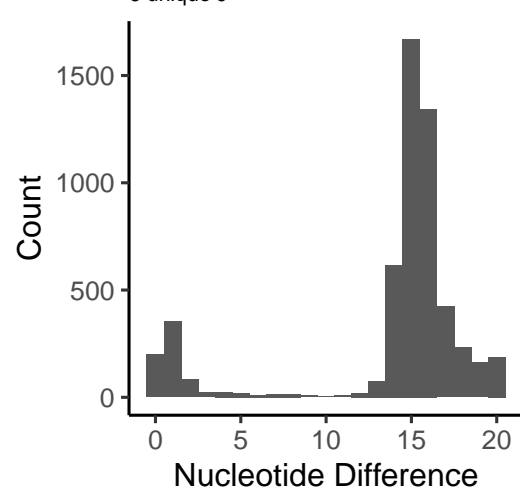
IGHV3-72*01

406 sequences assigned
25 (6.2%) exact matches, in which:
16 unique CDR3
4 unique J



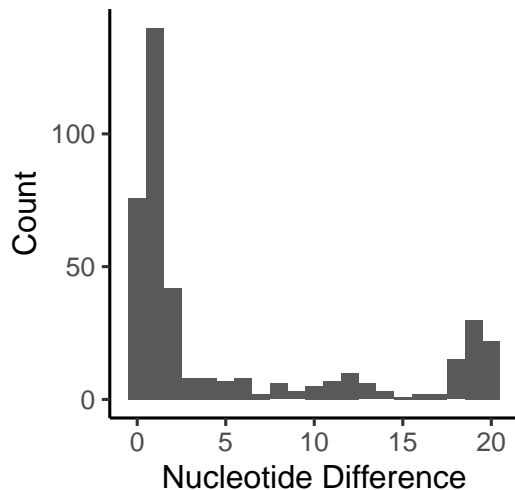
IGHV3-74*01_02

5676 sequences assigned
200 (3.5%) exact matches, in which:
111 unique CDR3
6 unique J



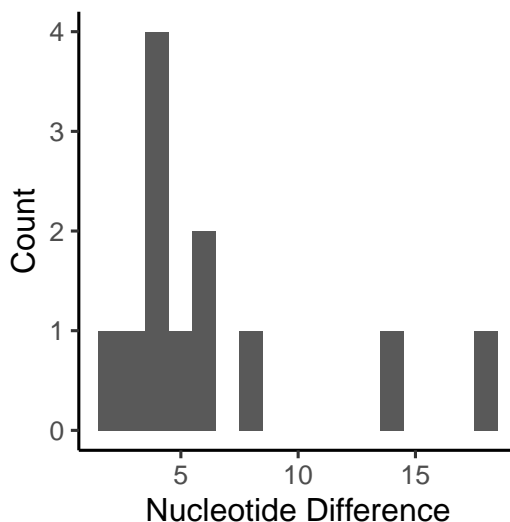
IGHV3-43D*03

416 sequences assigned
76 (18.3%) exact matches, in which:
45 unique CDR3
4 unique J



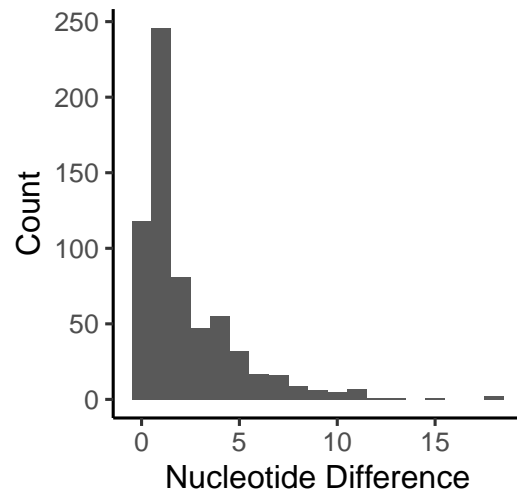
IGHV3-NL1*01

15 sequences assigned
No exact matches.



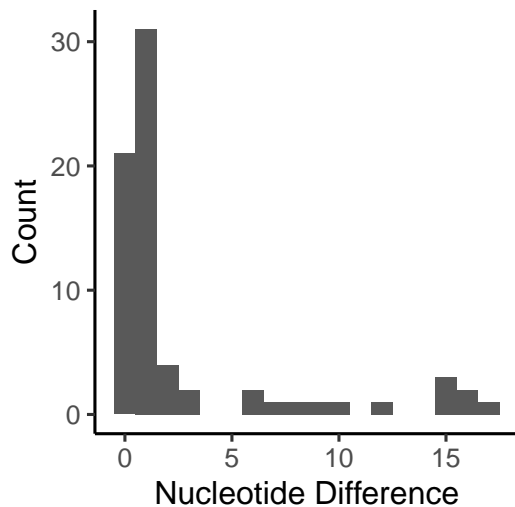
IGHV4-30-2*01

644 sequences assigned
118 (18.3%) exact matches, in which:
63 unique CDR3
4 unique J



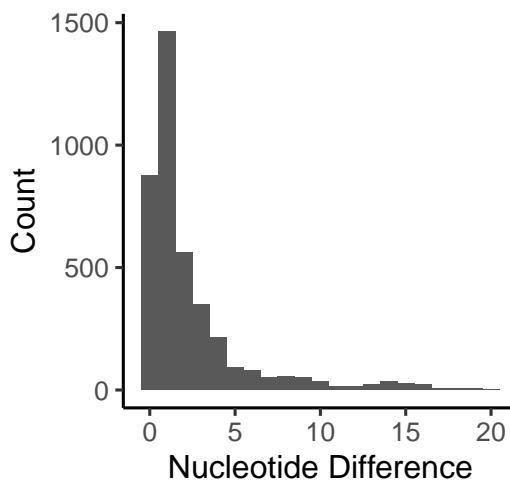
IGHV3-43D*04

72 sequences assigned
21 (29.2%) exact matches, in which:
16 unique CDR3
4 unique J



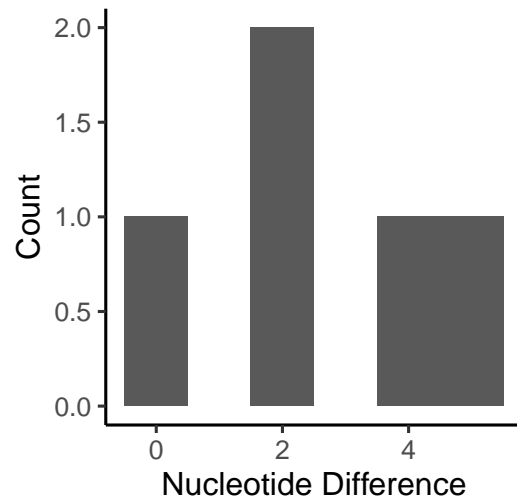
IGHV4-4*02_03

4018 sequences assigned
874 (21.8%) exact matches, in which:
567 unique CDR3
7 unique J



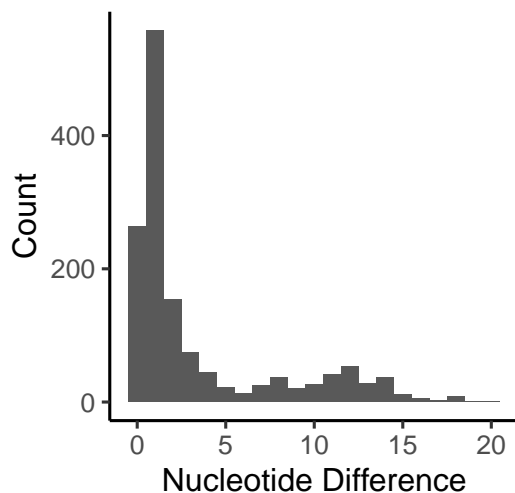
IGHV4-30-2*02

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



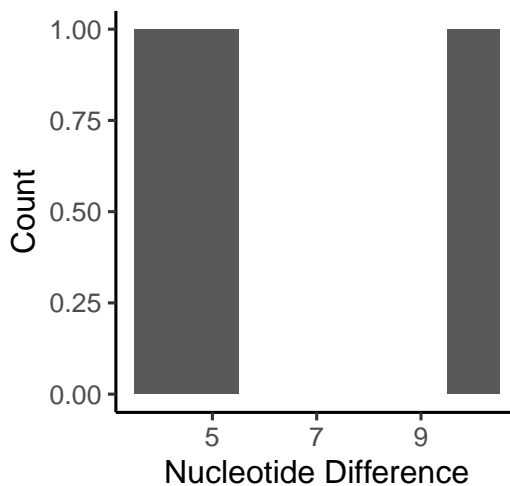
IGHV3-64D*06

1508 sequences assigned
263 (17.4%) exact matches, in which:
128 unique CDR3
7 unique J



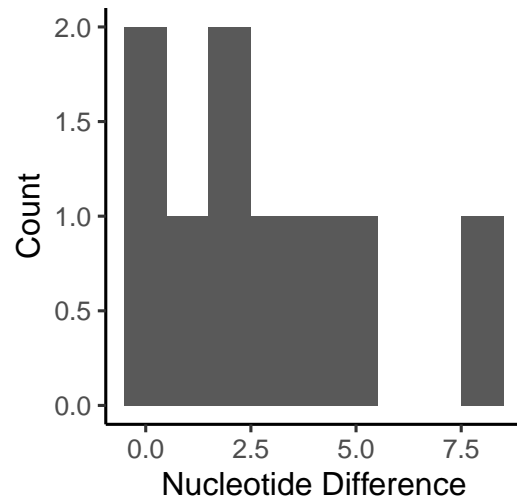
IGHV4-28*03

3 sequences assigned
No exact matches.



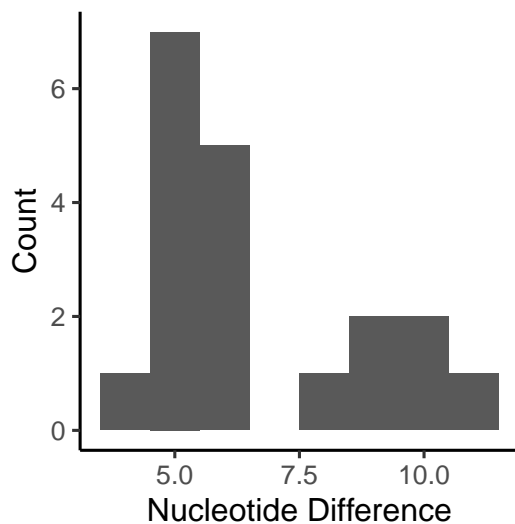
IGHV4-30-2*04

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



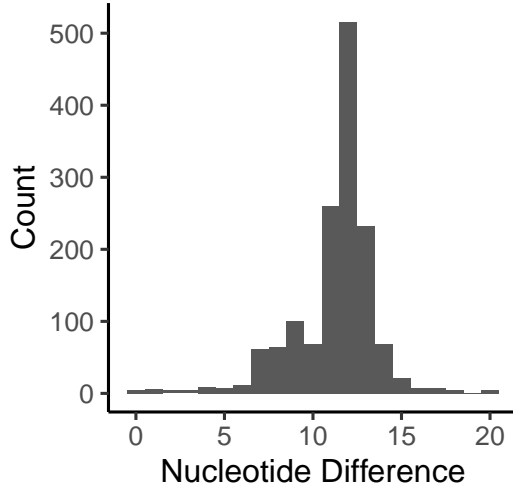
IGHV4-30-4*07

19 sequences assigned
No exact matches.



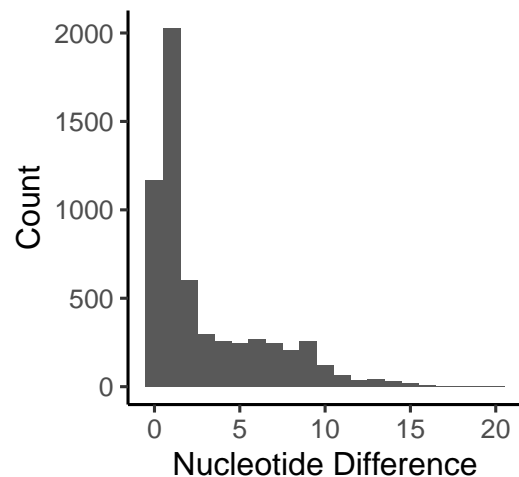
IGHV4-31*02

3566 sequences assigned
5 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



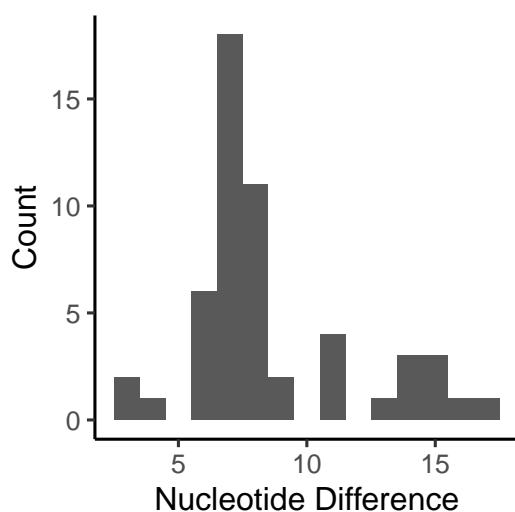
IGHV4-39*07

6687 sequences assigned
1166 (17.4%) exact matches, in which:
739 unique CDR3
7 unique J



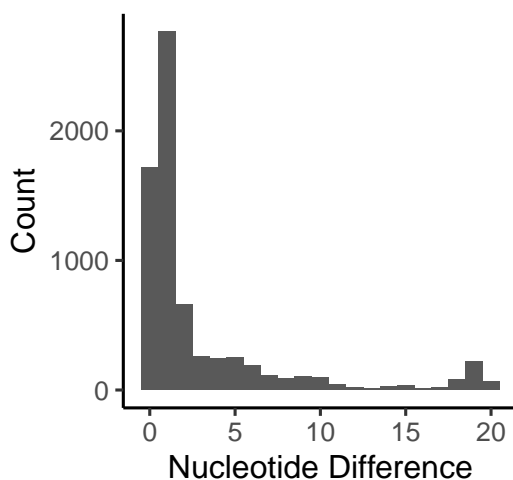
IGHV4-30-4*08

54 sequences assigned
No exact matches.



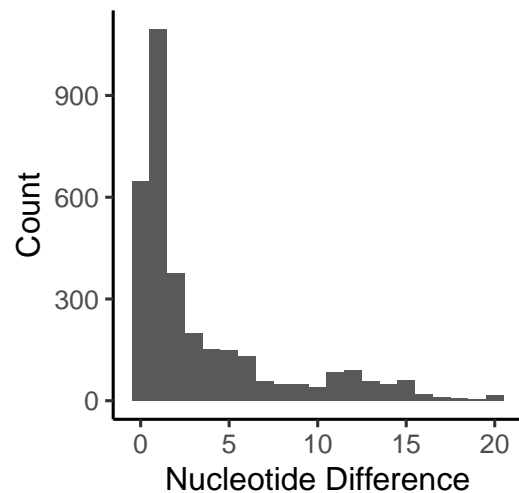
IGHV4-34*01_02

7074 sequences assigned
1717 (24.3%) exact matches, in which:
1074 unique CDR3
7 unique J



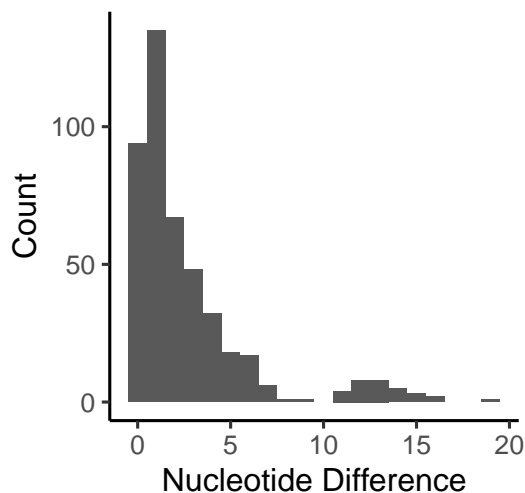
IGHV4-59*08

3753 sequences assigned
646 (17.2%) exact matches, in which:
431 unique CDR3
7 unique J



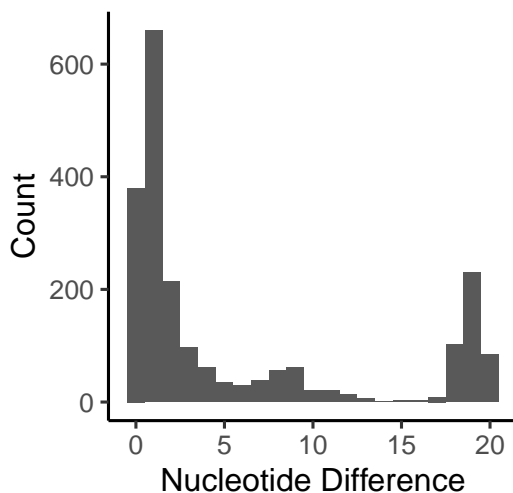
IGHV4-31*01

461 sequences assigned
94 (20.4%) exact matches, in which:
64 unique CDR3
5 unique J



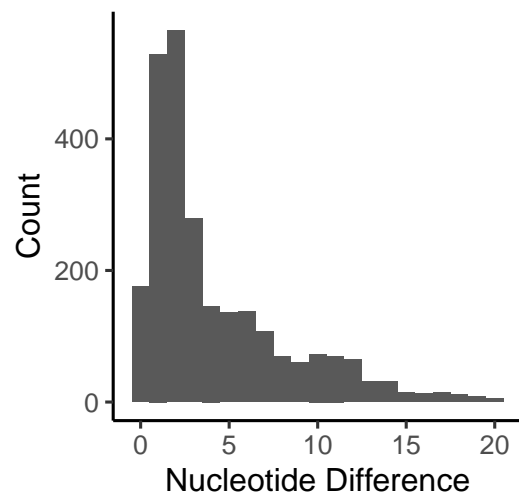
IGHV4-38-2*02

2227 sequences assigned
380 (17.1%) exact matches, in which:
288 unique CDR3
7 unique J



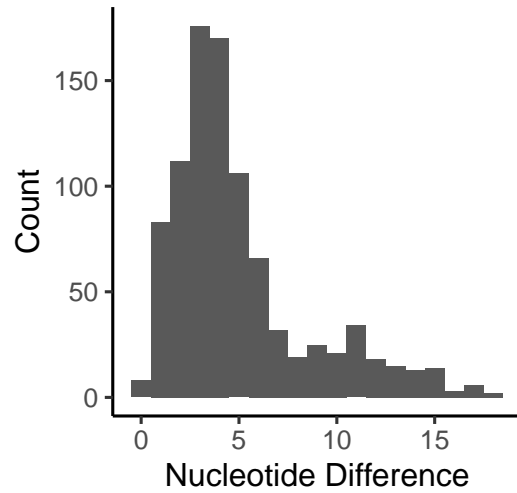
IGHV4-59*12

2771 sequences assigned
176 (6.4%) exact matches, in which:
152 unique CDR3
7 unique J



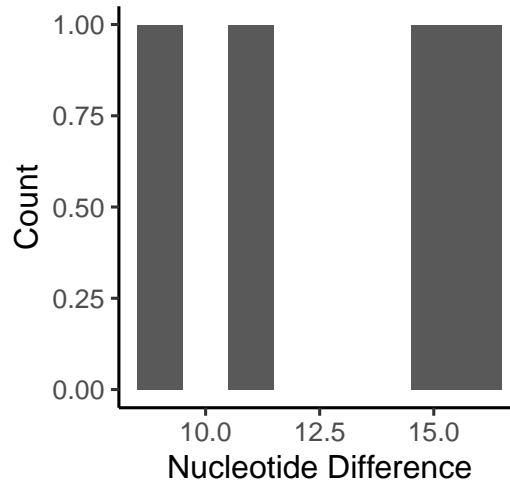
IGHV4-61*01

925 sequences assigned
8 (0.9%) exact matches, in which:
7 unique CDR3
4 unique J



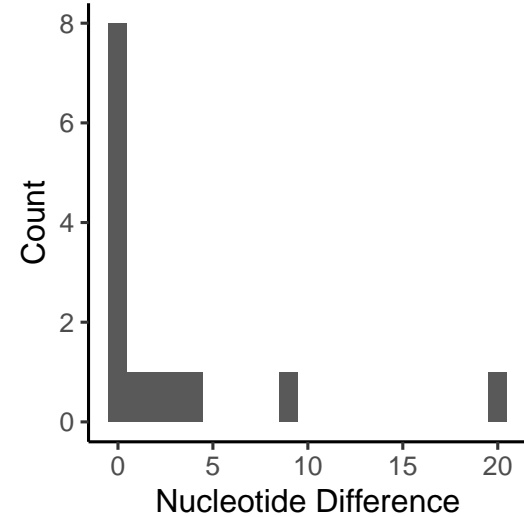
IGHV1/OR15-3*02

4 sequences assigned
No exact matches.



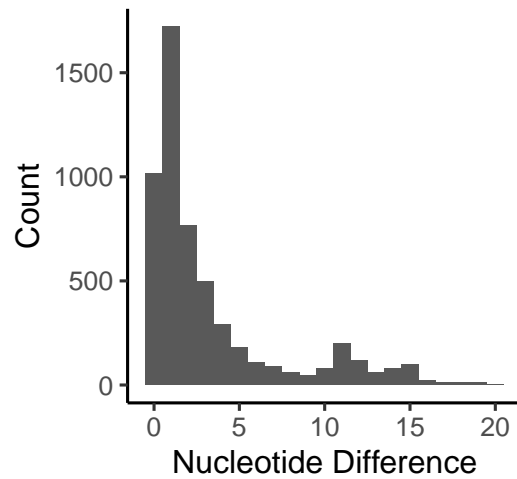
IGHV5-51*06

14 sequences assigned
8 (57.1%) exact matches, in which:
8 unique CDR3
2 unique J



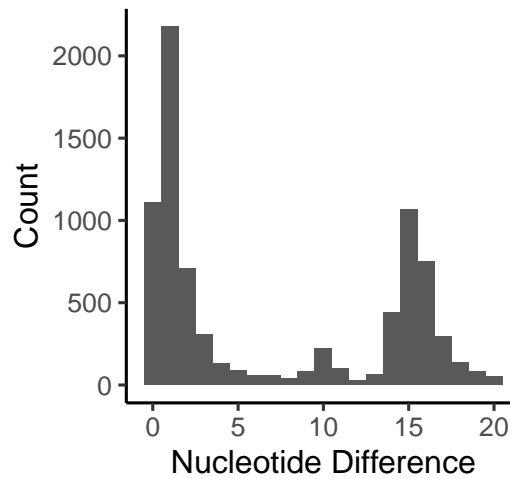
IGHV4-61*02

5483 sequences assigned
1018 (18.6%) exact matches, in which:
710 unique CDR3
7 unique J



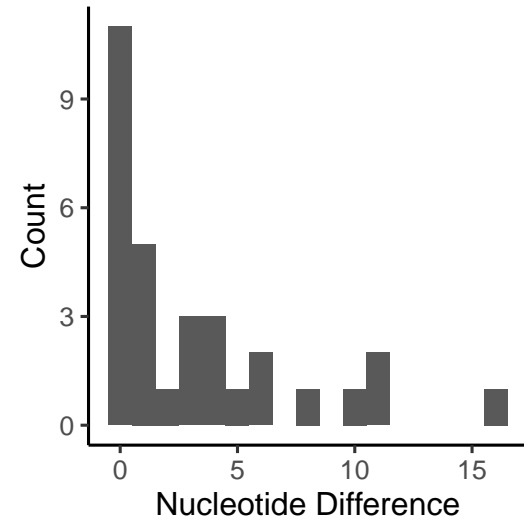
IGHV5-10-1*01_03

8099 sequences assigned
1110 (13.7%) exact matches, in which:
628 unique CDR3
6 unique J



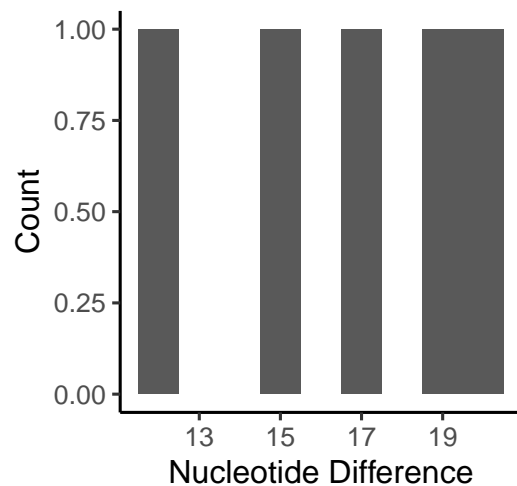
IGHV5-51*07

31 sequences assigned
11 (35.5%) exact matches, in which:
11 unique CDR3
4 unique J



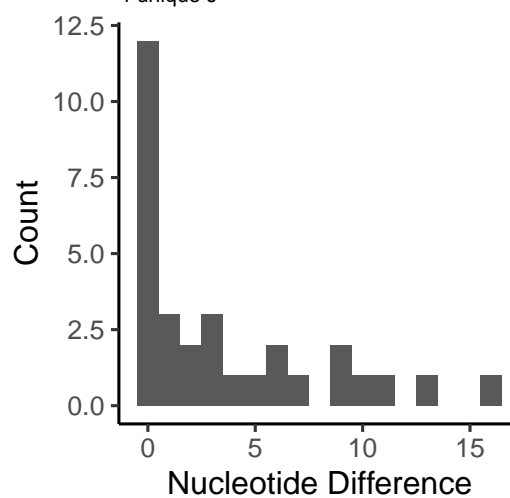
IGHV1/OR15-2*02_03

5 sequences assigned
No exact matches.



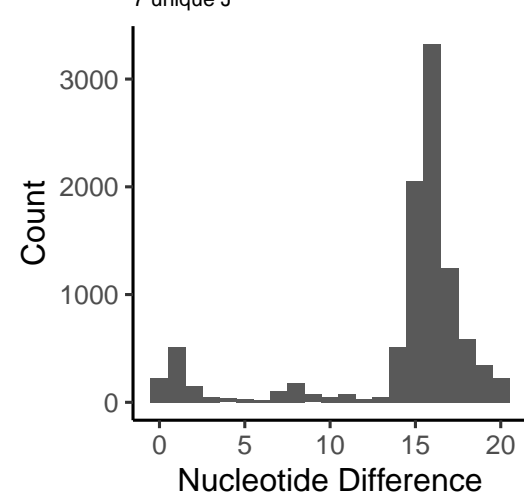
IGHV5-51*04

31 sequences assigned
12 (38.7%) exact matches, in which:
12 unique CDR3
4 unique J



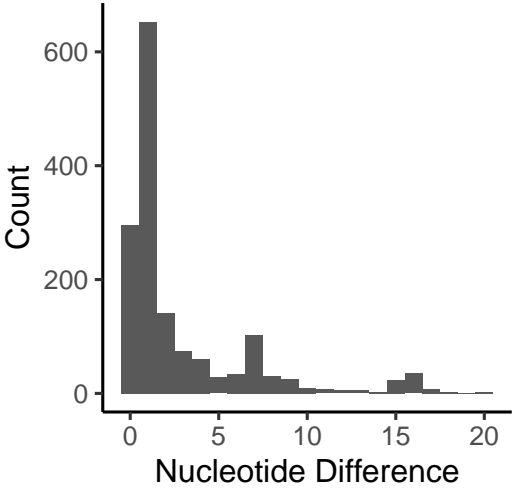
IGHV6-1*01_02

10419 sequences assigned
226 (2.2%) exact matches, in which:
158 unique CDR3
7 unique J

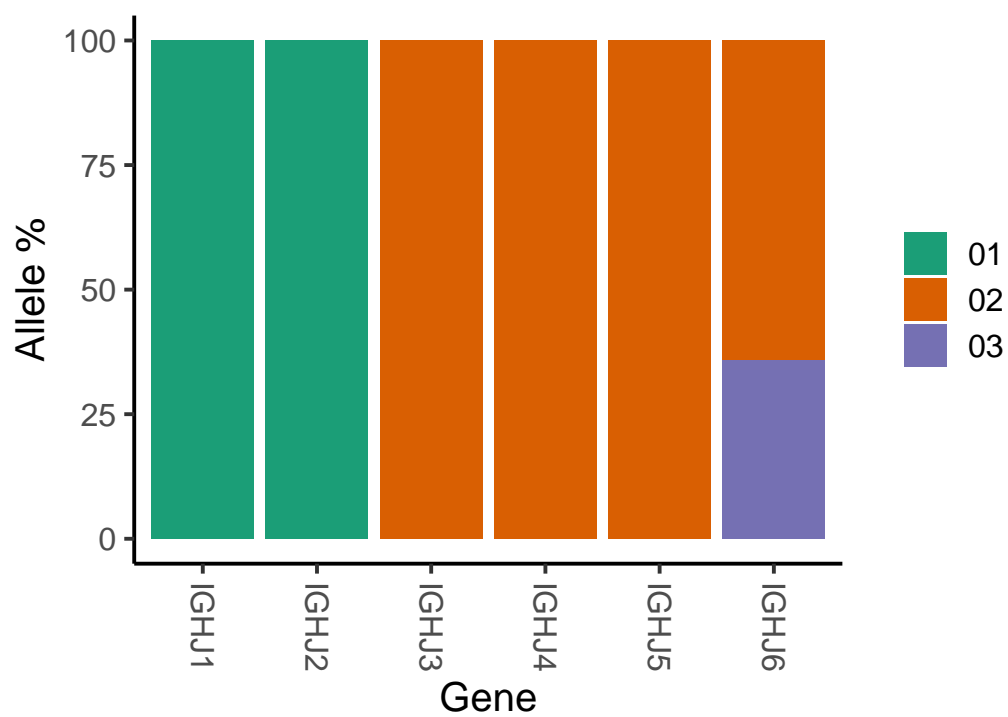


IGHV7-4-1*02

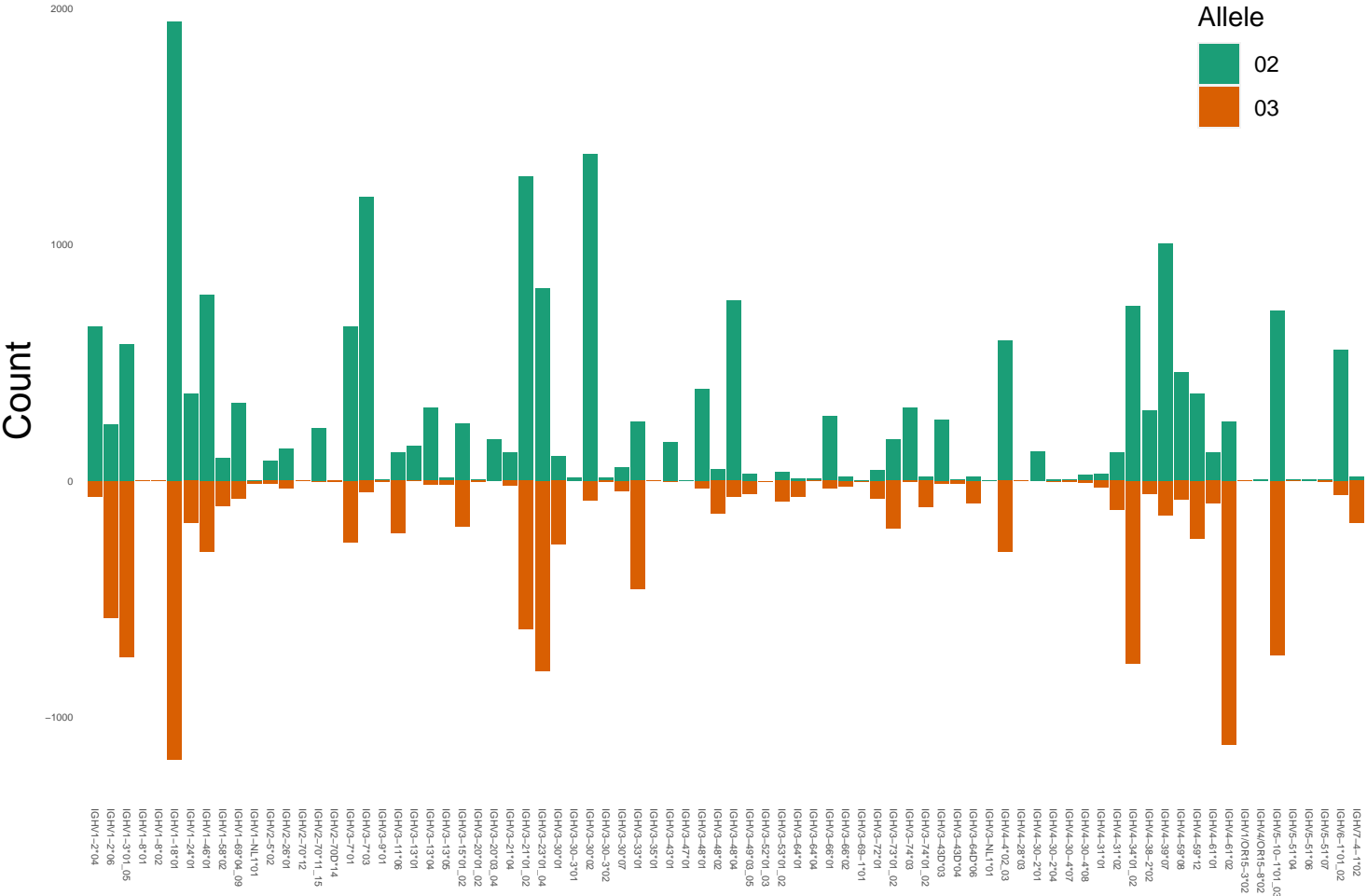
1551 sequences assigned
296 (19.1%) exact matches, in which:
205 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.