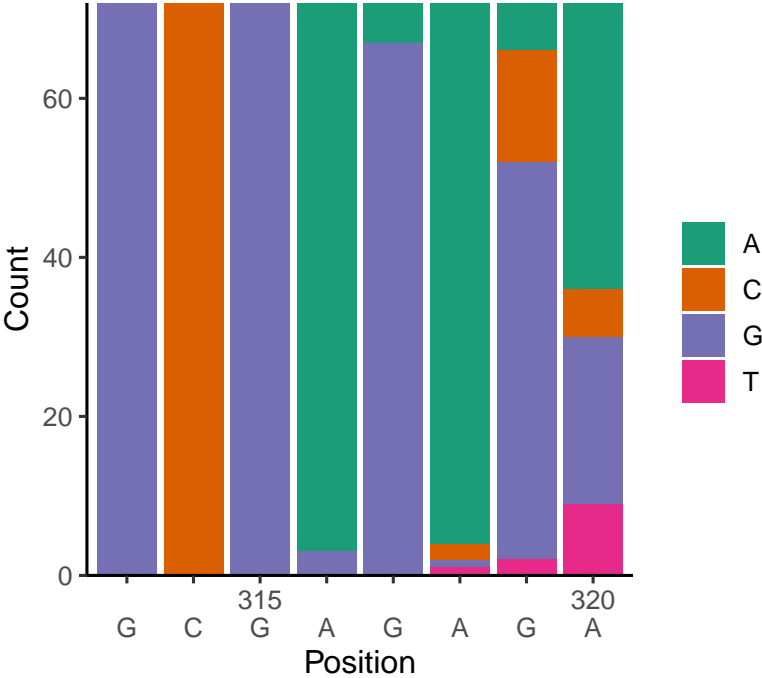
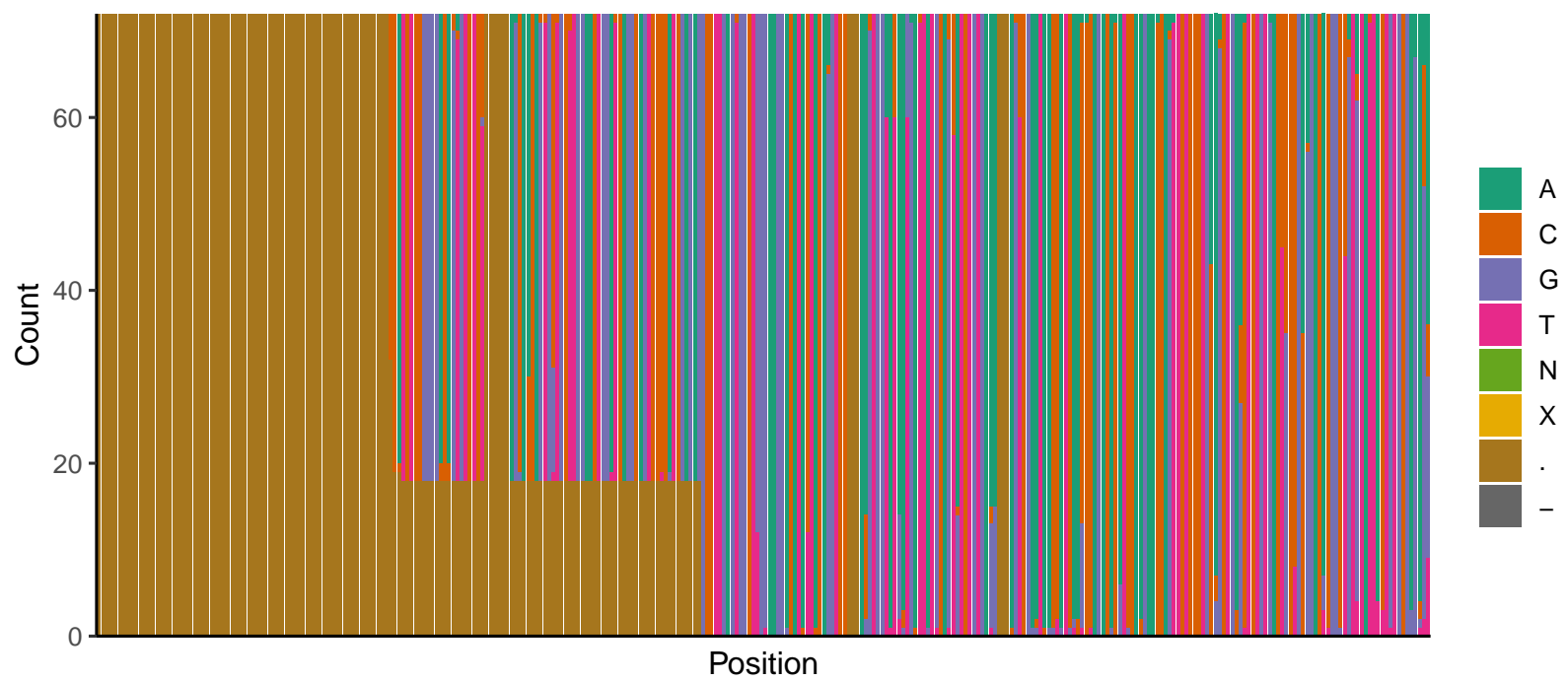


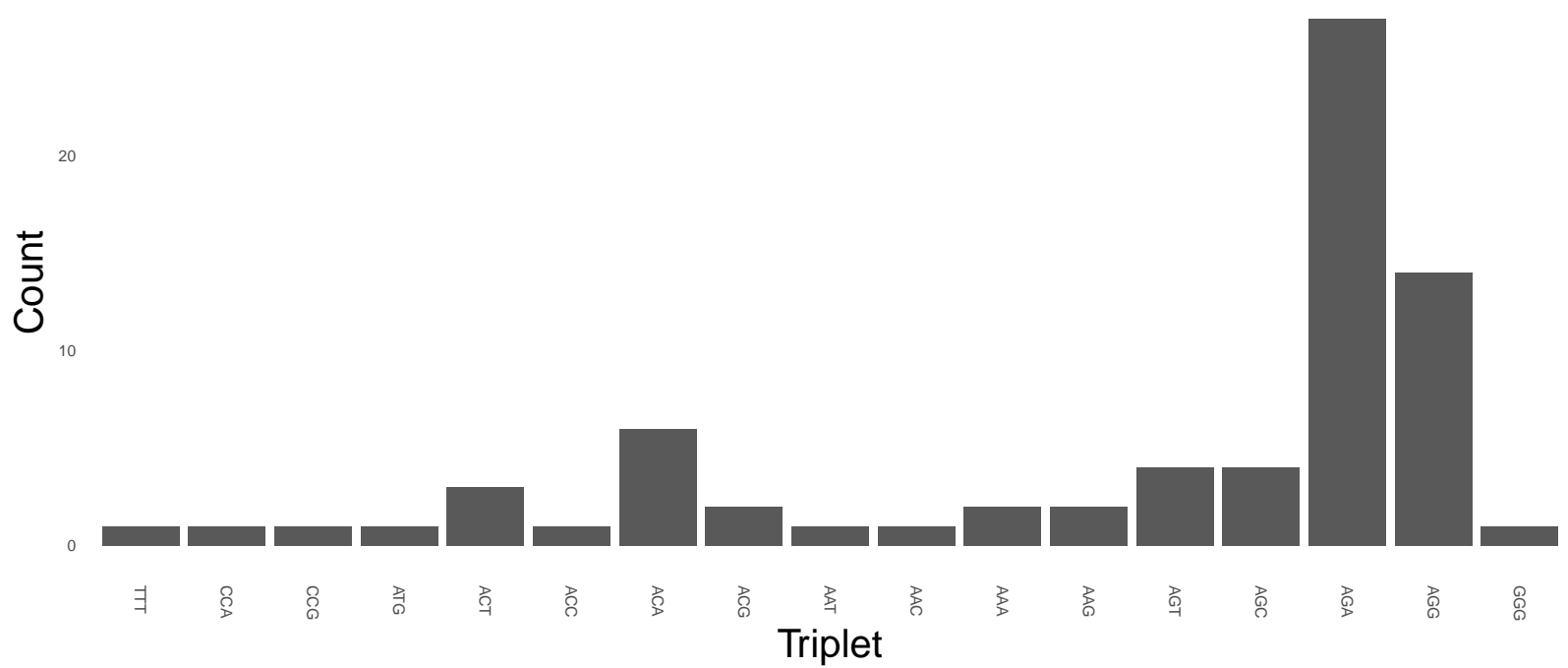
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

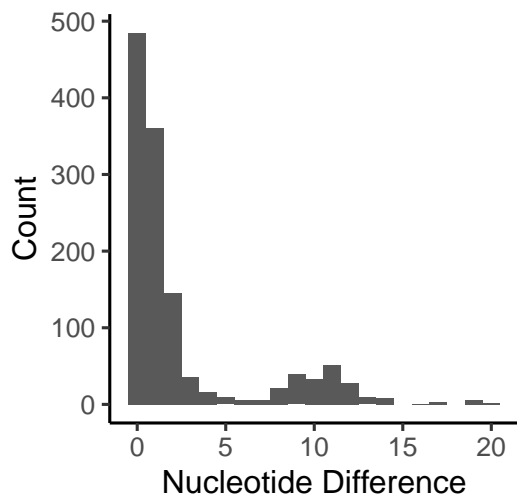


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



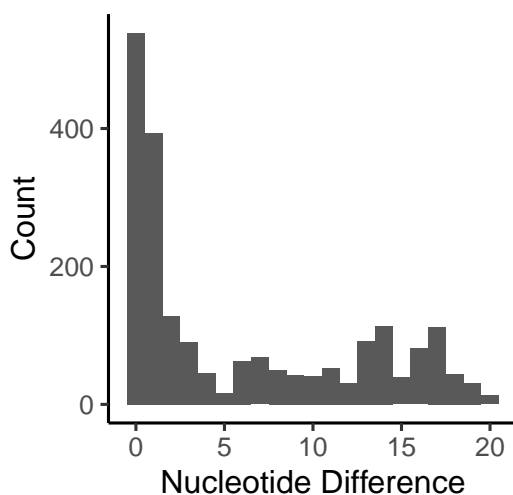
IGHV1-2*04

1285 sequences assigned
485 (37.7%) exact matches, in which:
450 unique CDR3
5 unique J



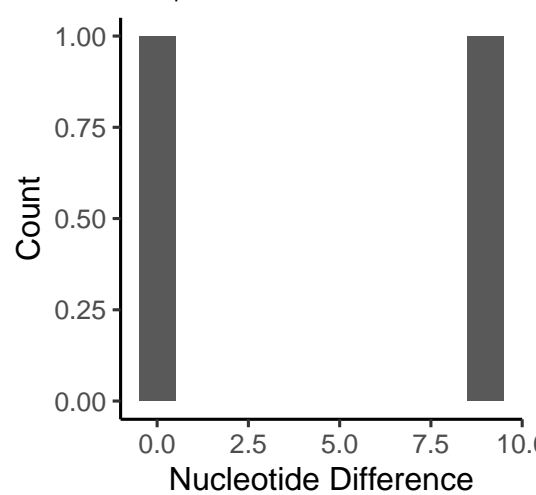
IGHV1-18*01

2148 sequences assigned
539 (25.1%) exact matches, in which:
503 unique CDR3
6 unique J



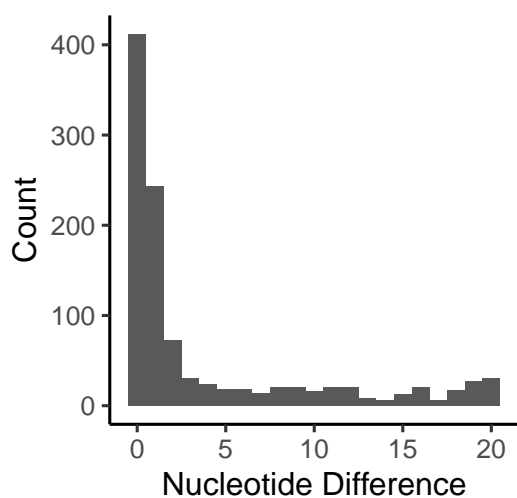
IGHV1-45*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



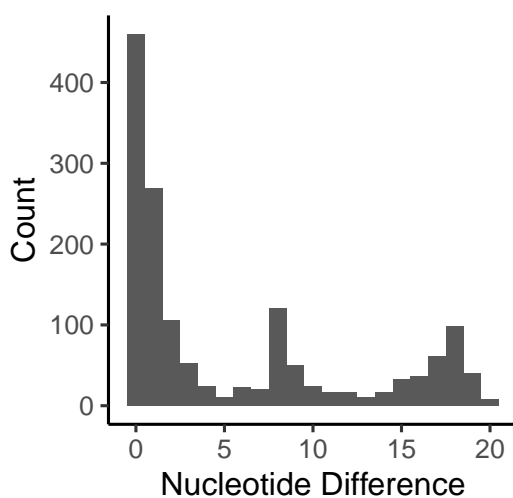
IGHV1-3*01_05

1271 sequences assigned
412 (32.4%) exact matches, in which:
382 unique CDR3
6 unique J



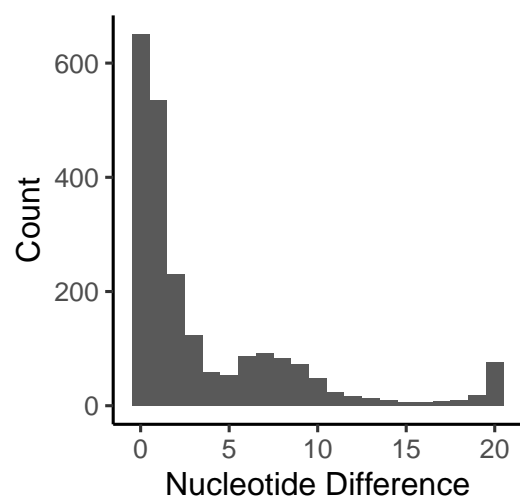
IGHV1-18*04

1778 sequences assigned
460 (25.9%) exact matches, in which:
434 unique CDR3
6 unique J



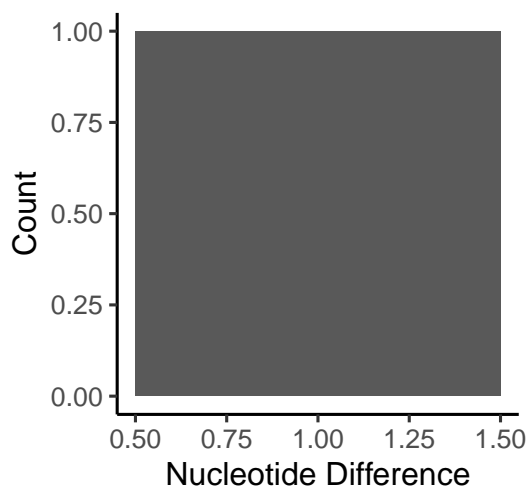
IGHV1-46*01

2949 sequences assigned
651 (22.1%) exact matches, in which:
600 unique CDR3
6 unique J



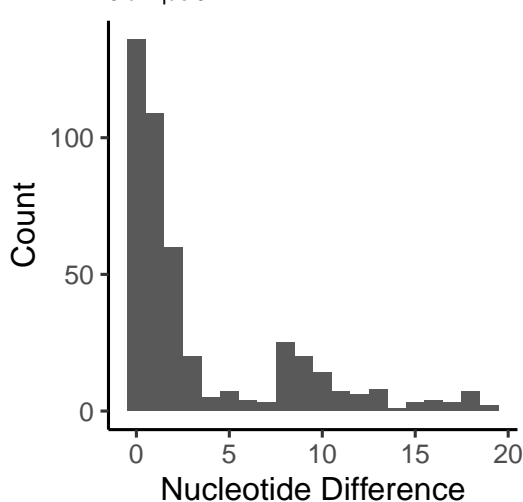
IGHV1-8*01

1 sequences assigned
No exact matches.



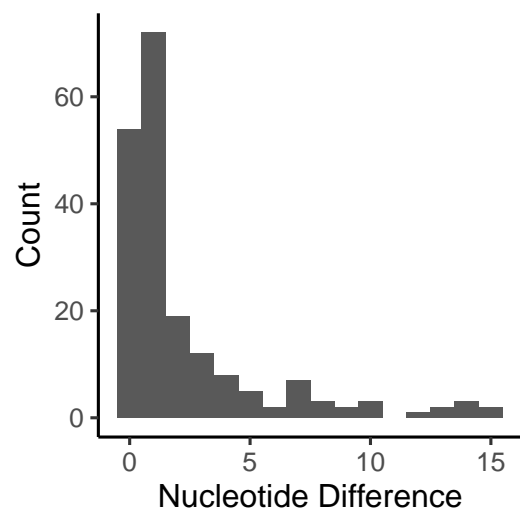
IGHV1-24*01

662 sequences assigned
136 (20.5%) exact matches, in which:
126 unique CDR3
5 unique J



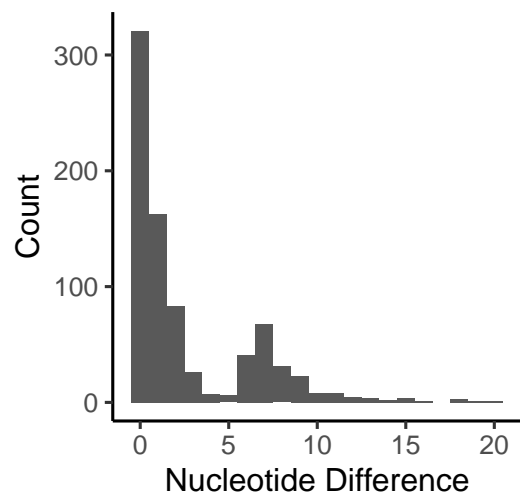
IGHV1-58*02

199 sequences assigned
54 (27.1%) exact matches, in which:
51 unique CDR3
4 unique J



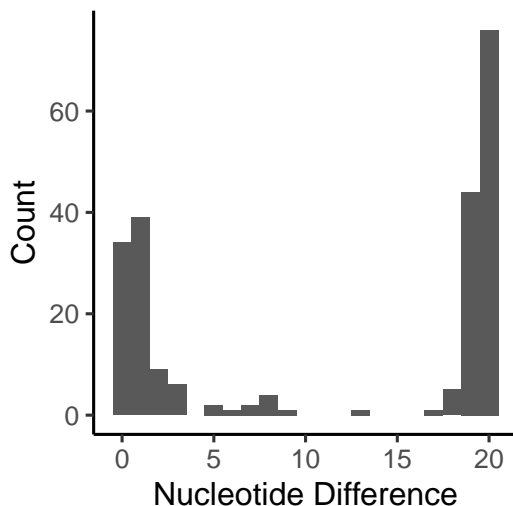
IGHV1–69*04_09

828 sequences assigned
321 (38.8%) exact matches, in which:
315 unique CDR3
6 unique J



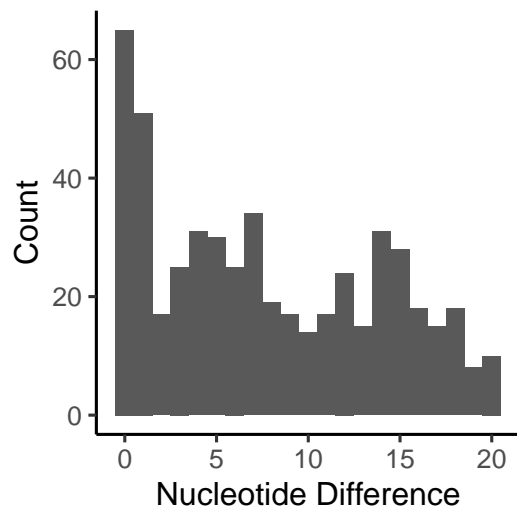
IGHV2–26*01

298 sequences assigned
34 (11.4%) exact matches, in which:
31 unique CDR3
3 unique J



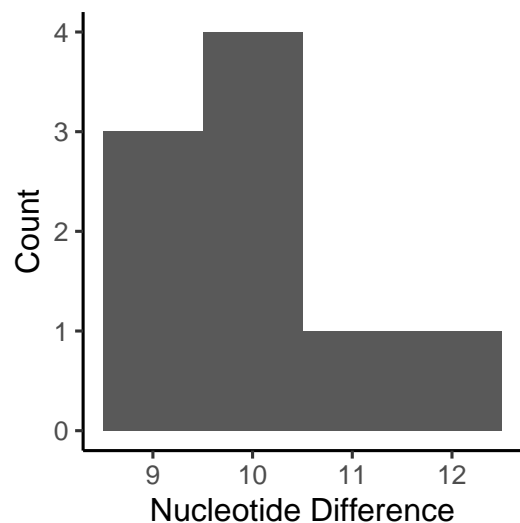
IGHV3–7*01

628 sequences assigned
65 (10.4%) exact matches, in which:
58 unique CDR3
4 unique J



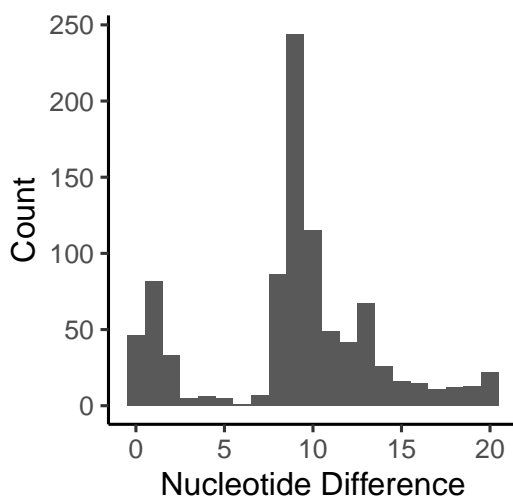
IGHV1–NL1*01

9 sequences assigned
No exact matches.



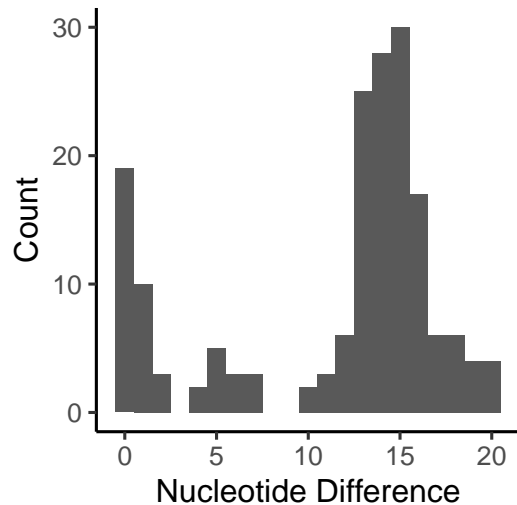
IGHV2–70*11_15

974 sequences assigned
46 (4.7%) exact matches, in which:
41 unique CDR3
4 unique J



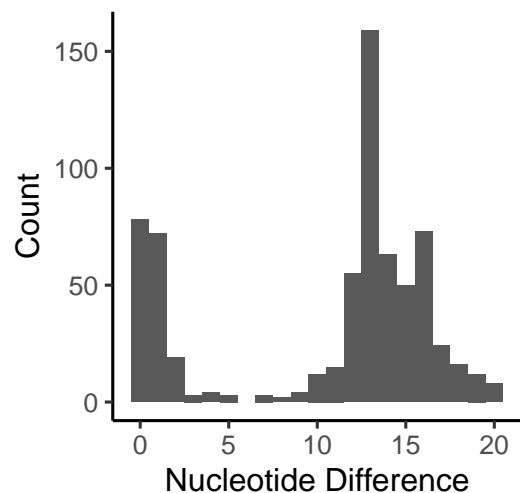
IGHV3–7*02

194 sequences assigned
19 (9.8%) exact matches, in which:
19 unique CDR3
4 unique J



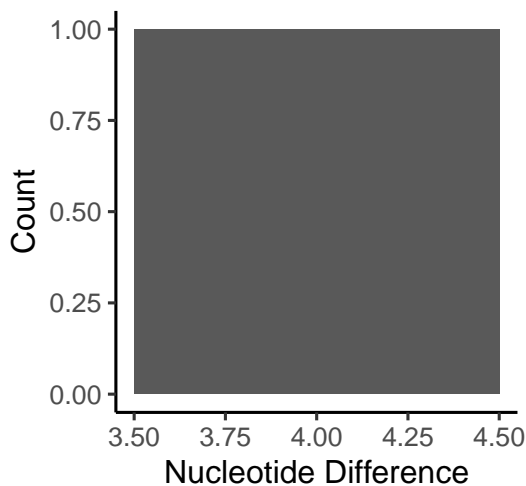
IGHV2–5*02

739 sequences assigned
78 (10.6%) exact matches, in which:
73 unique CDR3
5 unique J



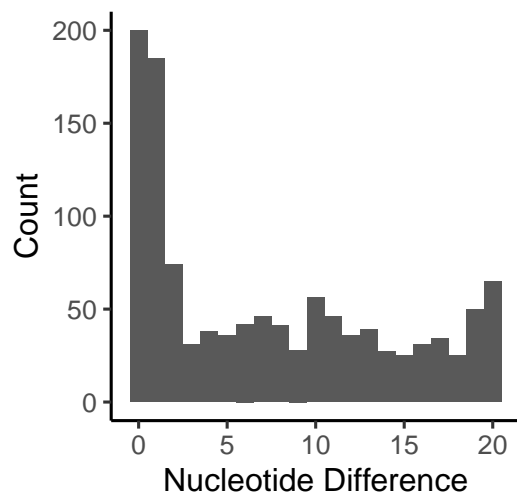
IGHV2–70D*14

1 sequences assigned
No exact matches.



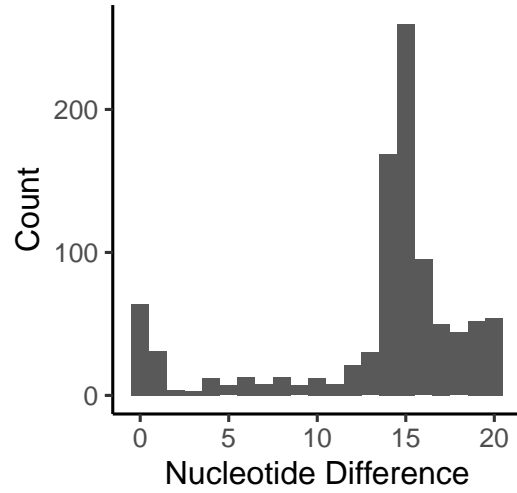
IGHV3–7*03

2812 sequences assigned
200 (7.1%) exact matches, in which:
137 unique CDR3
5 unique J



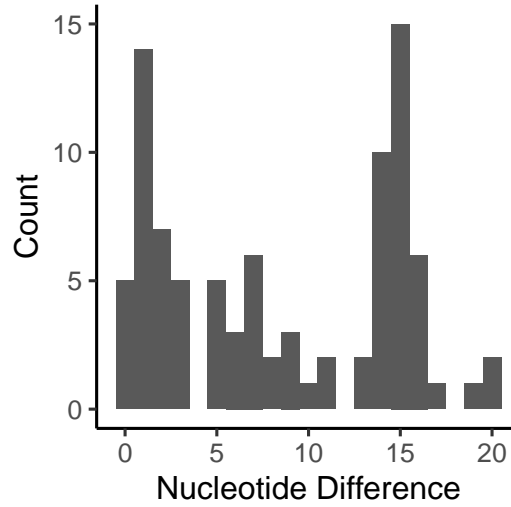
IGHV3-7*04

1242 sequences assigned
64 (5.2%) exact matches, in which:
48 unique CDR3
5 unique J



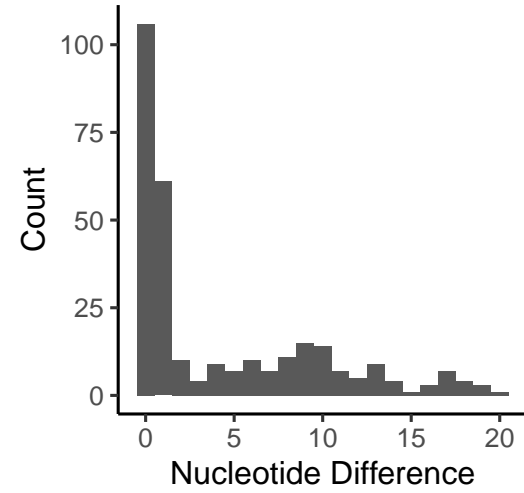
IGHV3-11*03_05

94 sequences assigned
5 (5.3%) exact matches, in which:
5 unique CDR3
2 unique J



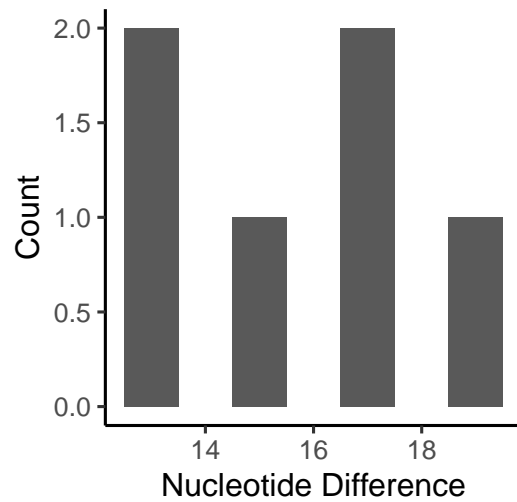
IGHV3-15*01_02

381 sequences assigned
106 (27.8%) exact matches, in which:
74 unique CDR3
6 unique J



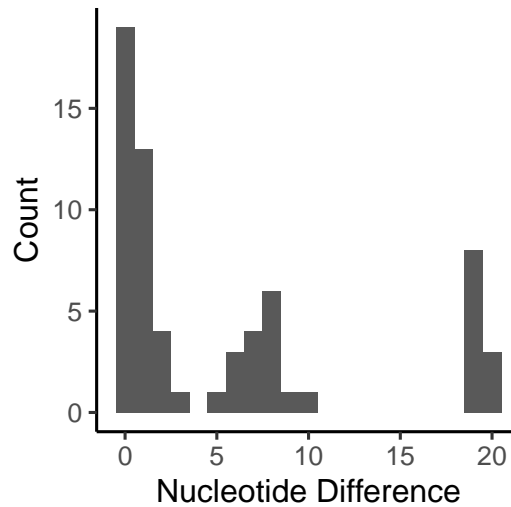
IGHV3-9*01

19 sequences assigned
No exact matches.



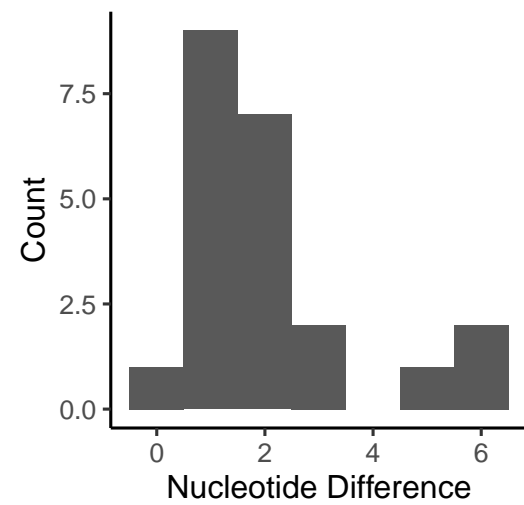
IGHV3-13*05

89 sequences assigned
19 (21.3%) exact matches, in which:
17 unique CDR3
2 unique J



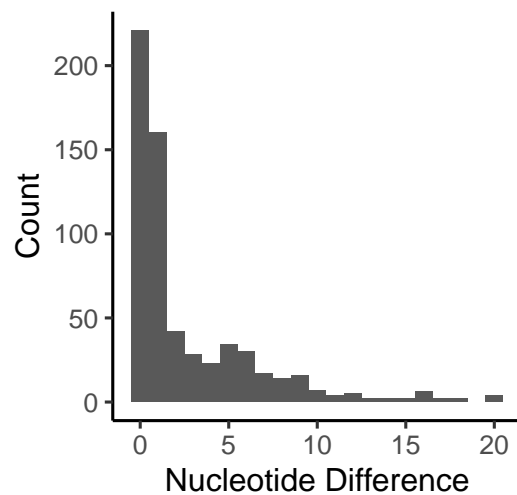
IGHV3-19*01

22 sequences assigned
1 (4.5%) exact matches, in which:
1 unique CDR3
1 unique J



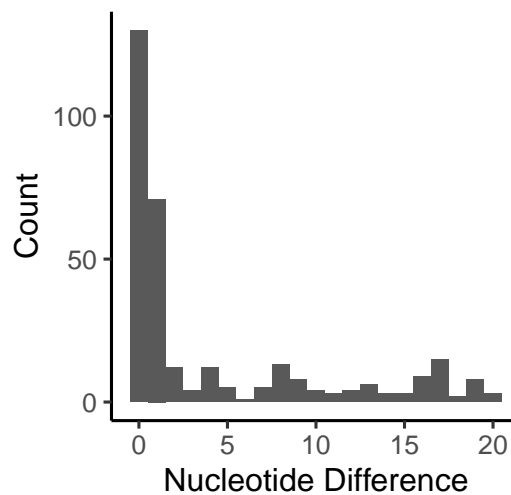
IGHV3-11*06

645 sequences assigned
221 (34.3%) exact matches, in which:
187 unique CDR3
5 unique J



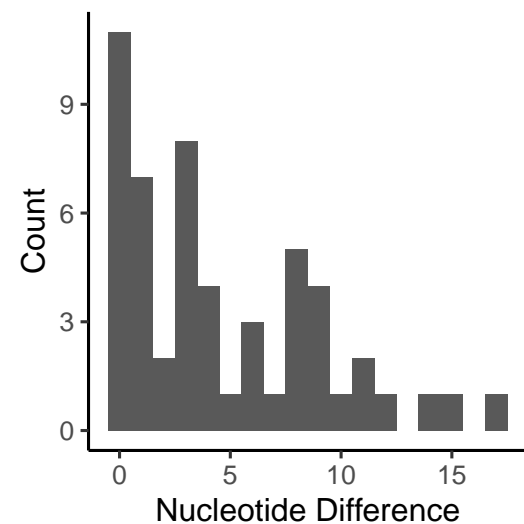
IGHV3-15*07

523 sequences assigned
130 (24.9%) exact matches, in which:
94 unique CDR3
5 unique J



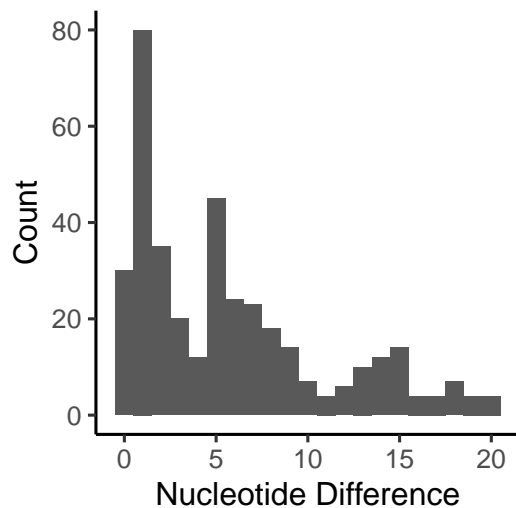
IGHV3-20*03_04

55 sequences assigned
11 (20%) exact matches, in which:
9 unique CDR3
4 unique J



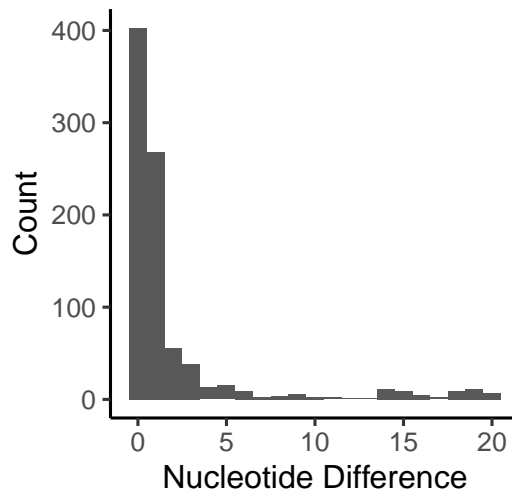
IGHV3-21*04

469 sequences assigned
30 (6.4%) exact matches, in which:
27 unique CDR3
4 unique J



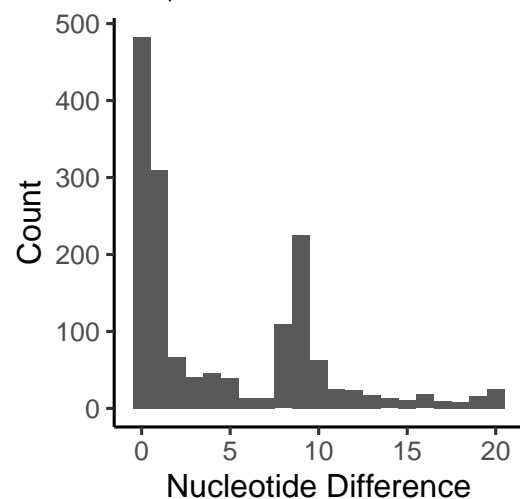
IGHV3-30-3*01

978 sequences assigned
403 (41.2%) exact matches, in which:
315 unique CDR3
6 unique J



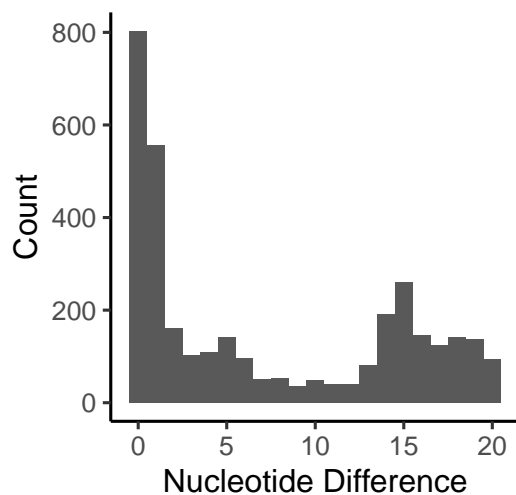
IGHV3-33*01

2822 sequences assigned
483 (17.1%) exact matches, in which:
401 unique CDR3
6 unique J



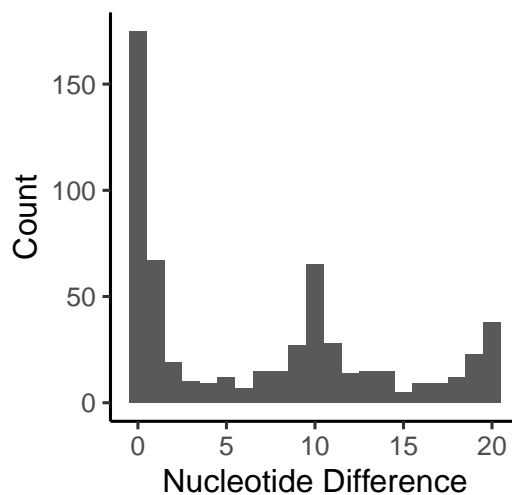
IGHV3-21*01_02

3724 sequences assigned
803 (21.6%) exact matches, in which:
663 unique CDR3
6 unique J



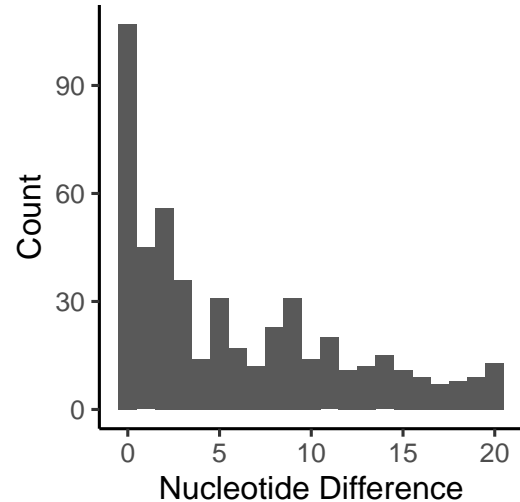
IGHV3-30*03

634 sequences assigned
175 (27.6%) exact matches, in which:
164 unique CDR3
6 unique J



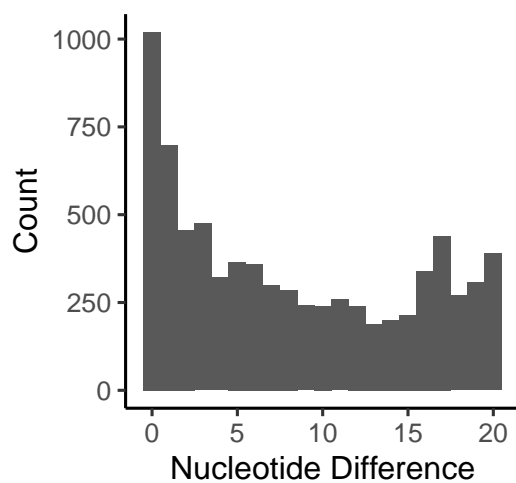
IGHV3-33*08

706 sequences assigned
107 (15.2%) exact matches, in which:
96 unique CDR3
6 unique J



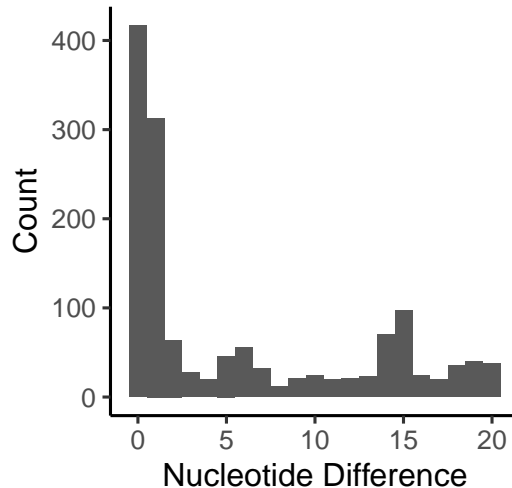
IGHV3-23*01_04

12708 sequences assigned
1020 (8%) exact matches, in which:
773 unique CDR3
6 unique J



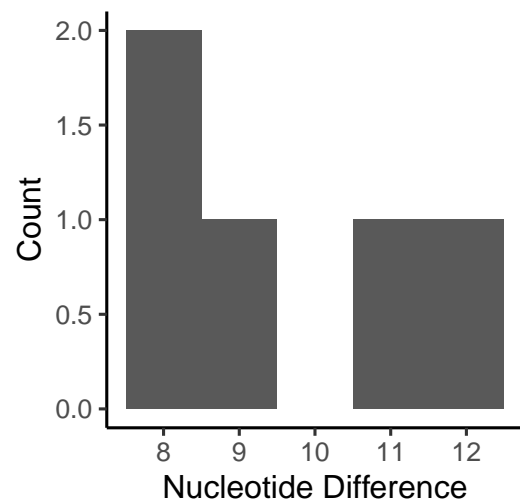
IGHV3-30*18

1749 sequences assigned
417 (23.8%) exact matches, in which:
307 unique CDR3
6 unique J



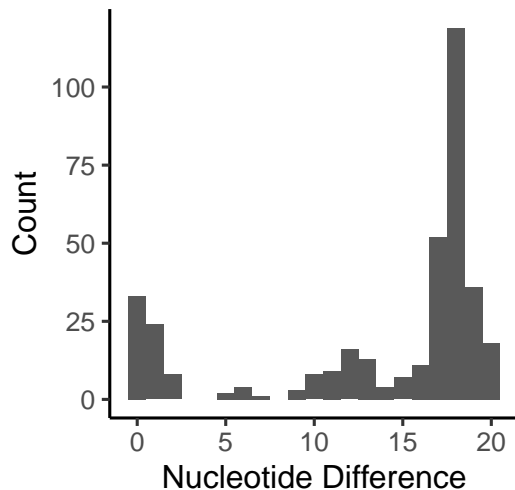
IGHV3-35*01

5 sequences assigned
No exact matches.



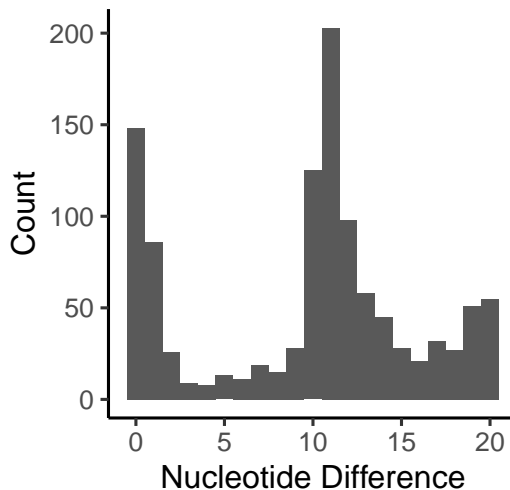
IGHV3-43*02

465 sequences assigned
33 (7.1%) exact matches, in which:
27 unique CDR3
5 unique J



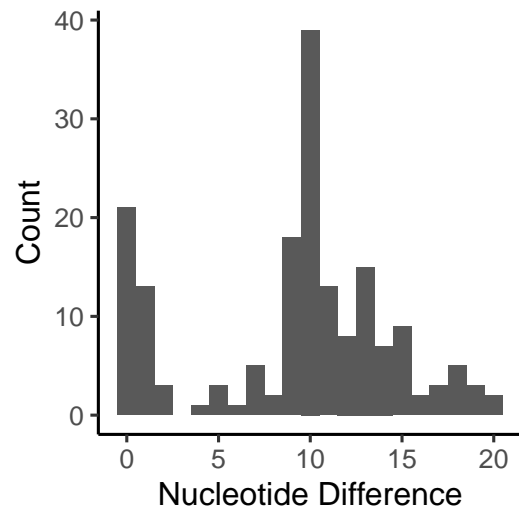
IGHV3-48*02

1576 sequences assigned
148 (9.4%) exact matches, in which:
114 unique CDR3
5 unique J



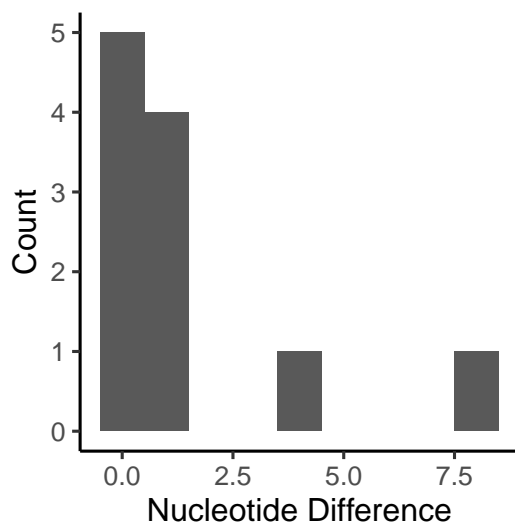
IGHV3-49*04

200 sequences assigned
21 (10.5%) exact matches, in which:
18 unique CDR3
4 unique J



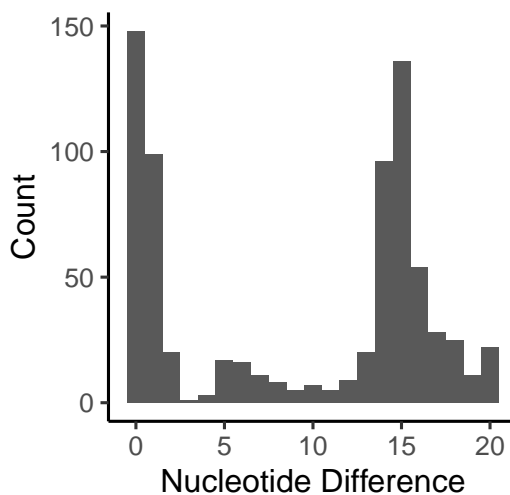
IGHV3-47*02

11 sequences assigned
5 (45.5%) exact matches, in which:
3 unique CDR3
1 unique J



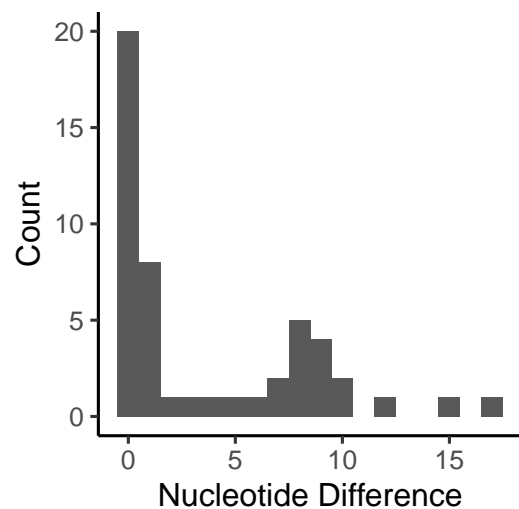
IGHV3-48*03

1454 sequences assigned
148 (10.2%) exact matches, in which:
112 unique CDR3
5 unique J



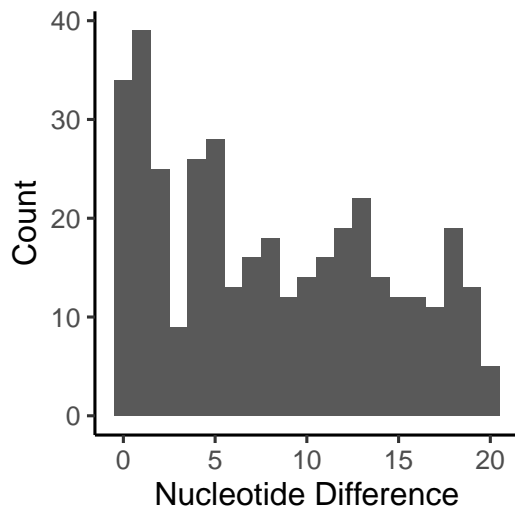
IGHV3-49*03_05

50 sequences assigned
20 (40%) exact matches, in which:
13 unique CDR3
3 unique J



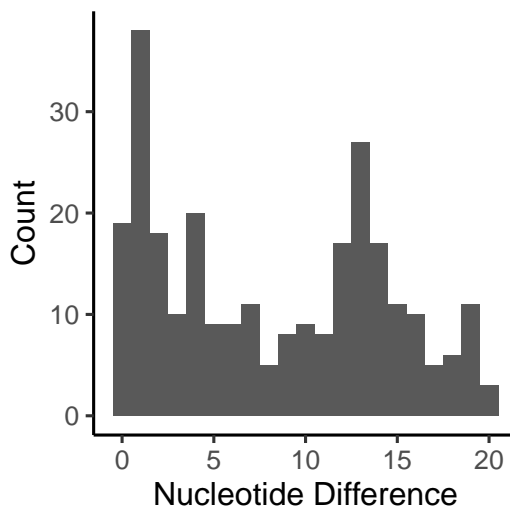
IGHV3-48*01

426 sequences assigned
34 (8%) exact matches, in which:
33 unique CDR3
4 unique J



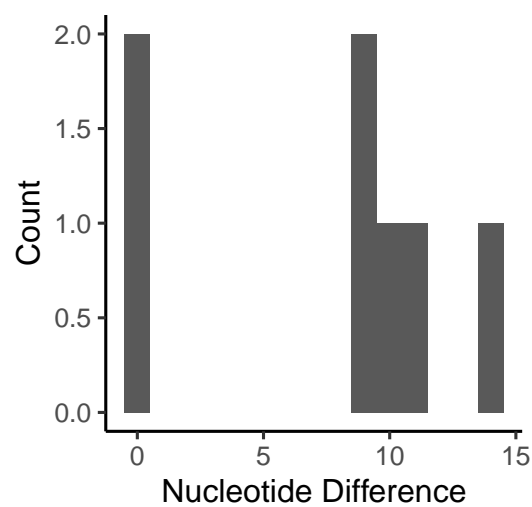
IGHV3-48*04

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



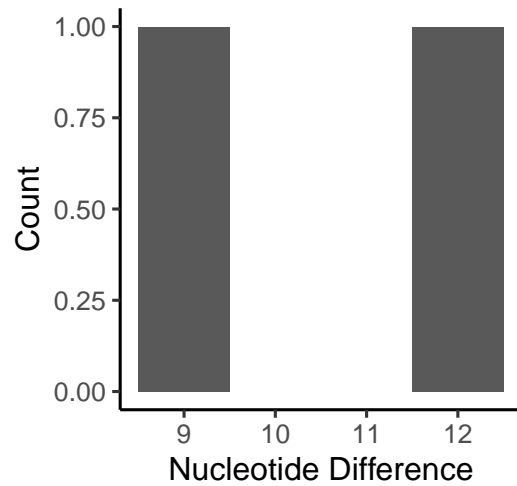
IGHV3-52*02

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
1 unique J



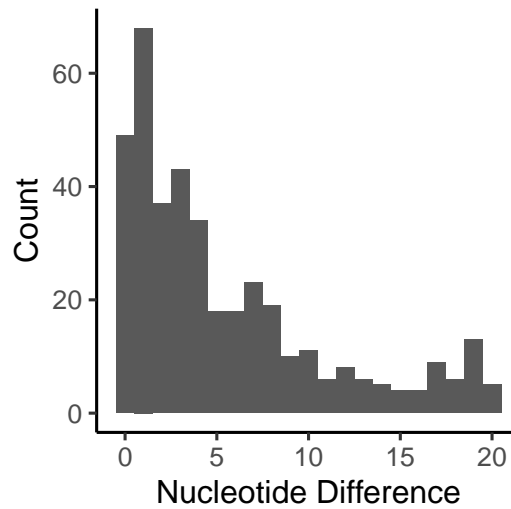
IGHV3-52*01_03

2 sequences assigned
No exact matches.



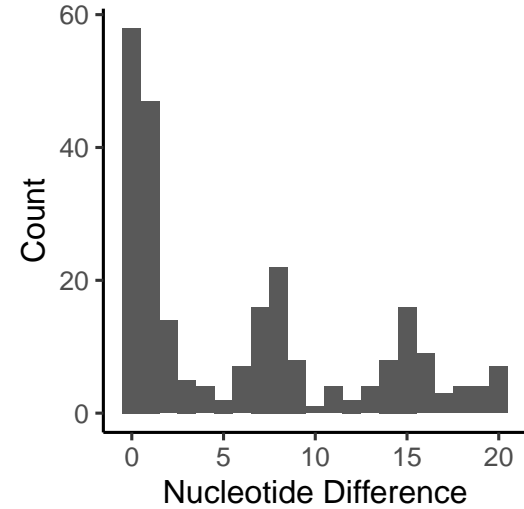
IGHV3-53*01_02

467 sequences assigned
49 (10.5%) exact matches, in which:
42 unique CDR3
4 unique J



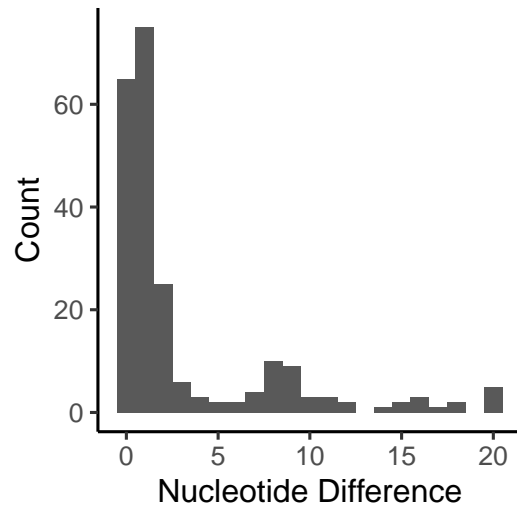
IGHV3-66*02

303 sequences assigned
58 (19.1%) exact matches, in which:
49 unique CDR3
6 unique J



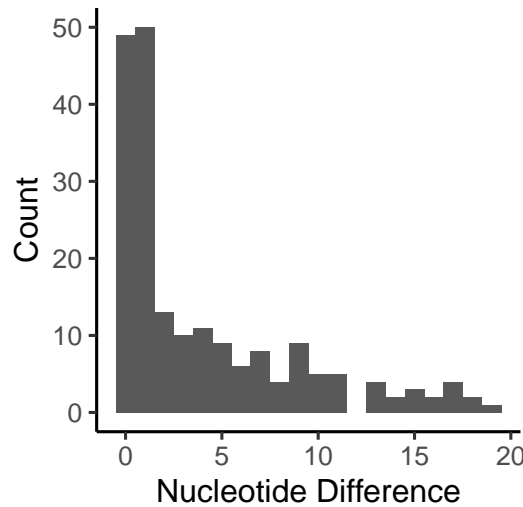
IGHV3-53*04

399 sequences assigned
65 (16.3%) exact matches, in which:
47 unique CDR3
4 unique J



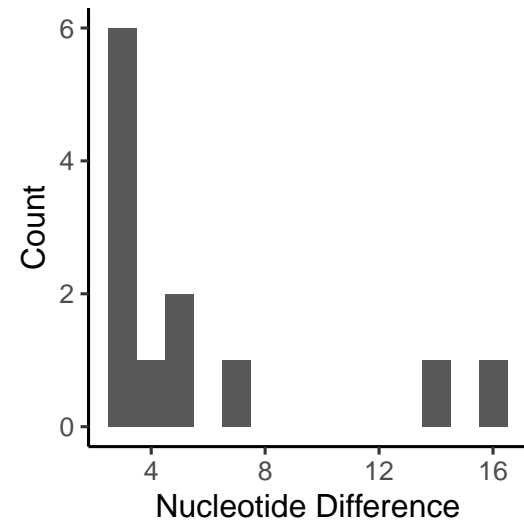
IGHV3-64*01

242 sequences assigned
49 (20.2%) exact matches, in which:
39 unique CDR3
4 unique J



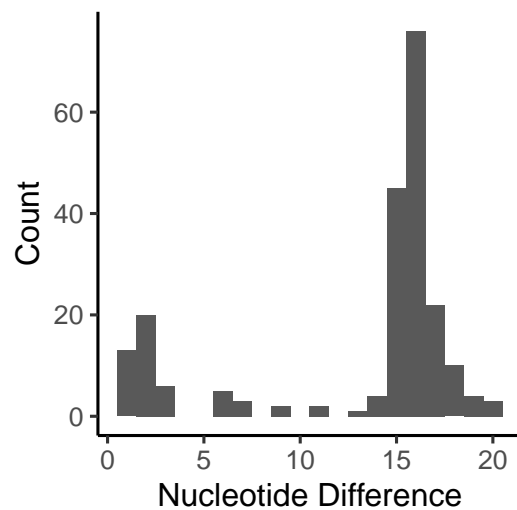
IGHV3-69-1*01

15 sequences assigned
No exact matches.



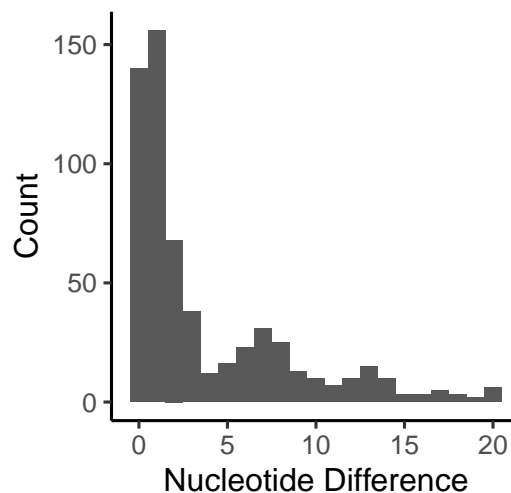
IGHV3-53*05

253 sequences assigned
No exact matches.



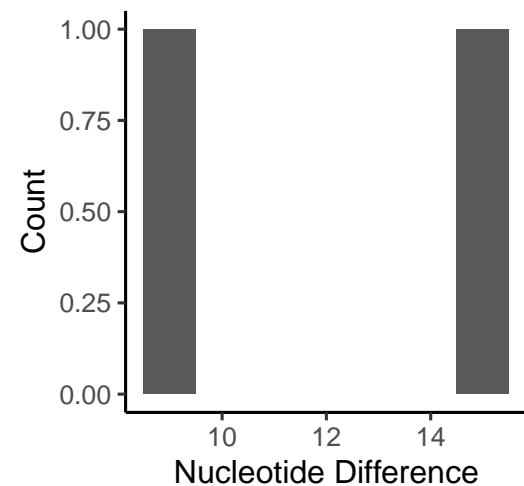
IGHV3-66*01

678 sequences assigned
140 (20.6%) exact matches, in which:
114 unique CDR3
5 unique J



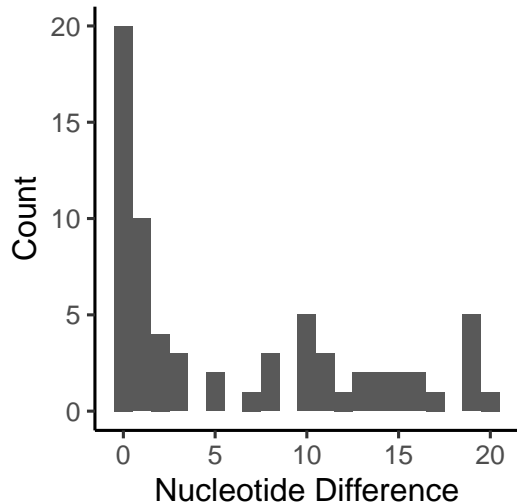
IGHV3-69-1*02

35 sequences assigned
No exact matches.



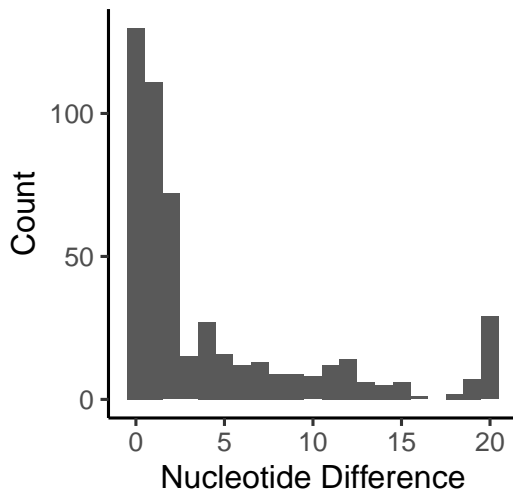
IGHV3-72*01

910 sequences assigned
20 (2.2%) exact matches, in which:
15 unique CDR3
4 unique J



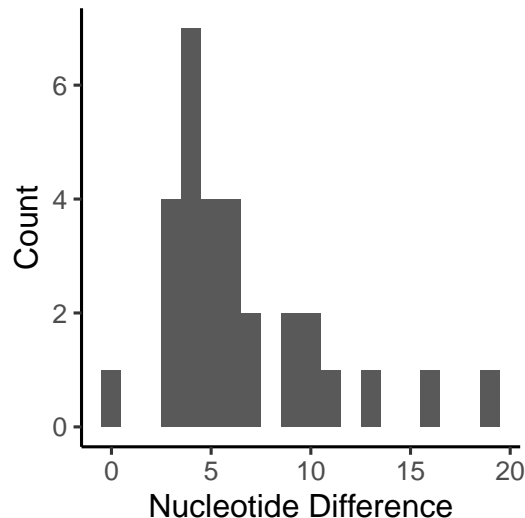
IGHV3-74*01_02

588 sequences assigned
130 (22.1%) exact matches, in which:
100 unique CDR3
4 unique J



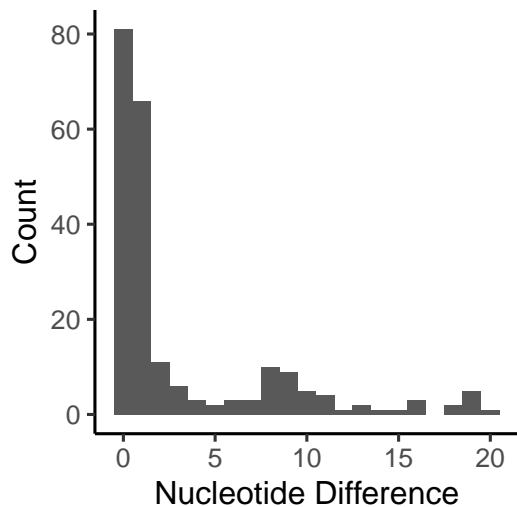
IGHV3-NL1*01

48 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



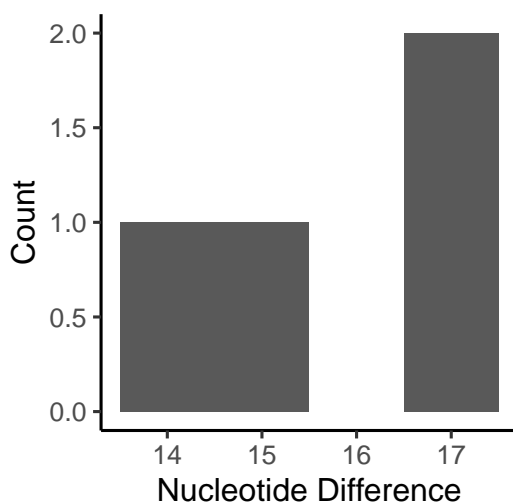
IGHV3-73*01_02

304 sequences assigned
81 (26.6%) exact matches, in which:
58 unique CDR3
4 unique J



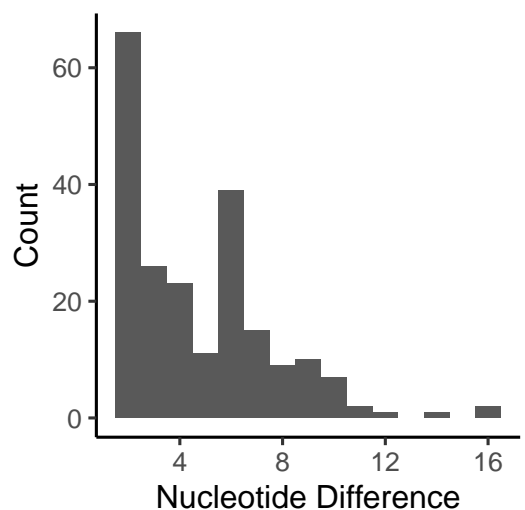
IGHV3-43D*04

4 sequences assigned
No exact matches.



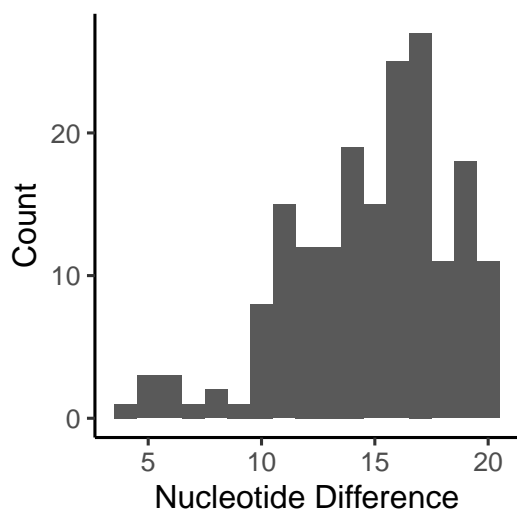
IGHV4-4*07

237 sequences assigned
No exact matches.



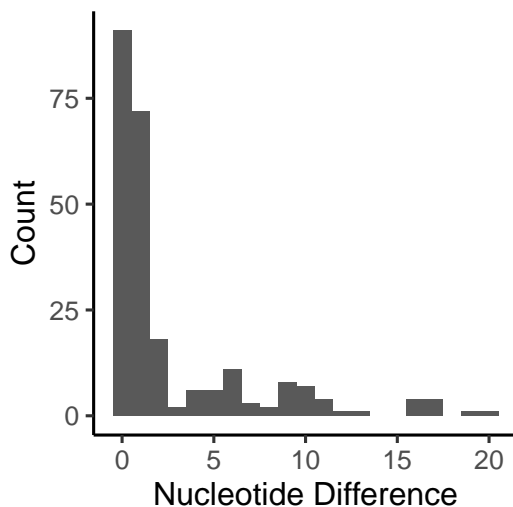
IGHV3-74*03

1640 sequences assigned
No exact matches.



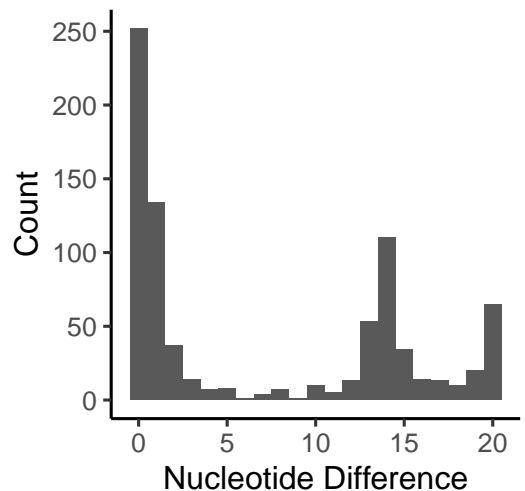
IGHV3-64D*06

345 sequences assigned
91 (26.4%) exact matches, in which:
69 unique CDR3
4 unique J



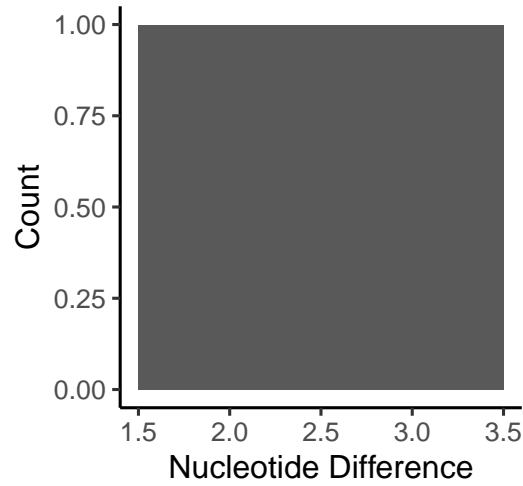
IGHV4-4*02_03

1158 sequences assigned
252 (21.8%) exact matches, in which:
216 unique CDR3
5 unique J



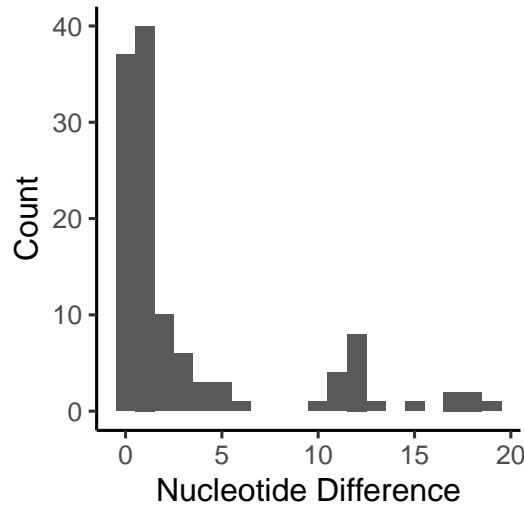
IGHV4-28*03

2 sequences assigned
No exact matches.



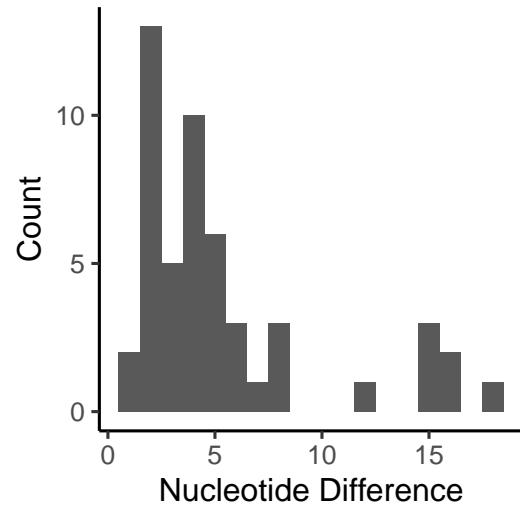
IGHV4-30-4*01

209 sequences assigned
37 (17.7%) exact matches, in which:
30 unique CDR3
5 unique J



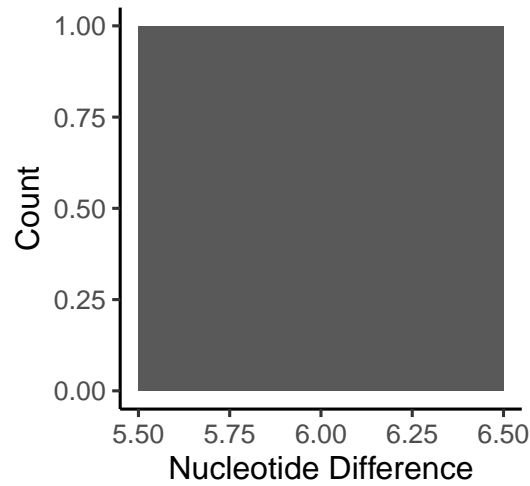
IGHV4-30-4*08

61 sequences assigned
No exact matches.



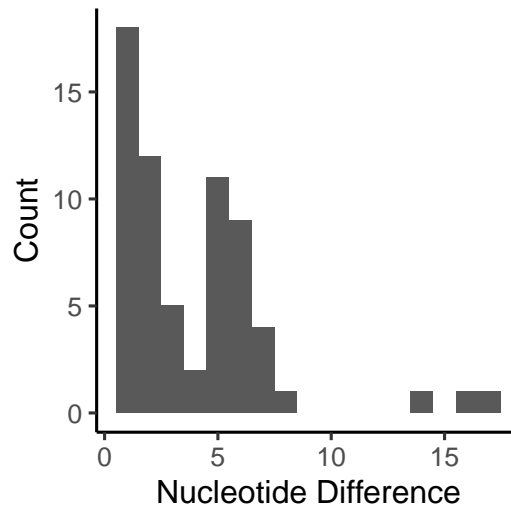
IGHV4-28*01_07

1 sequences assigned
No exact matches.



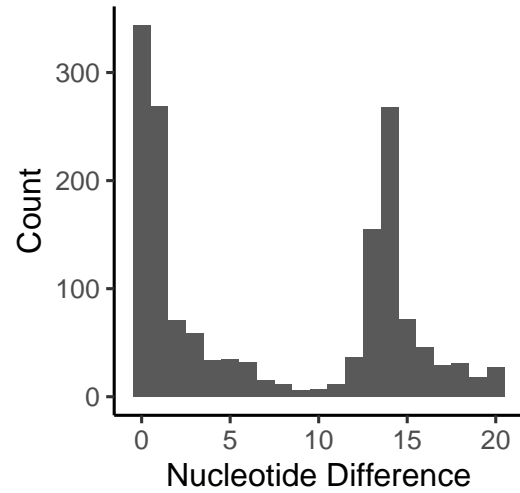
IGHV4-30-2*03

70 sequences assigned
No exact matches.



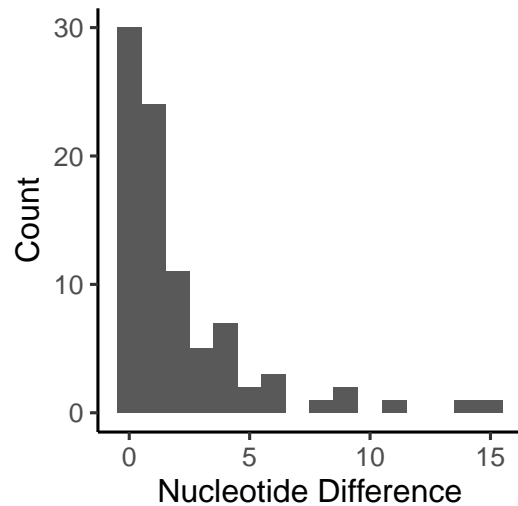
IGHV4-31*02

2799 sequences assigned
344 (12.3%) exact matches, in which:
302 unique CDR3
6 unique J



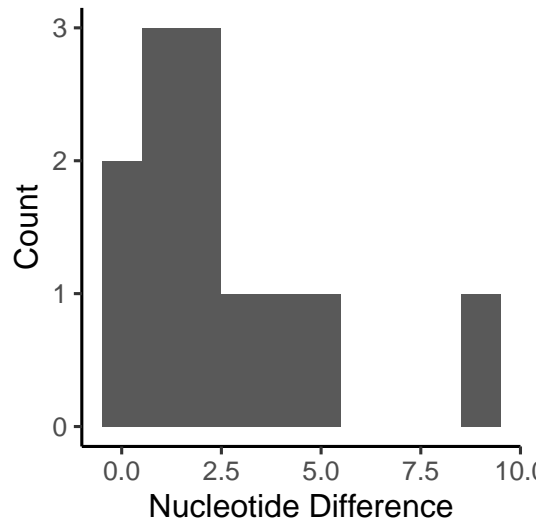
IGHV4-30-2*01

89 sequences assigned
30 (33.7%) exact matches, in which:
23 unique CDR3
4 unique J



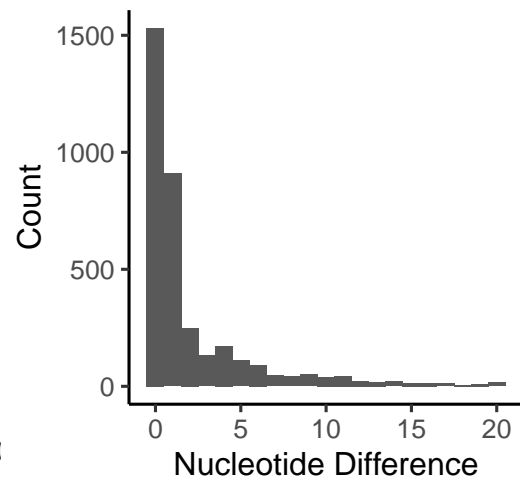
IGHV4-30-2*05

12 sequences assigned
2 (16.7%) exact matches, in which:
2 unique CDR3
2 unique J



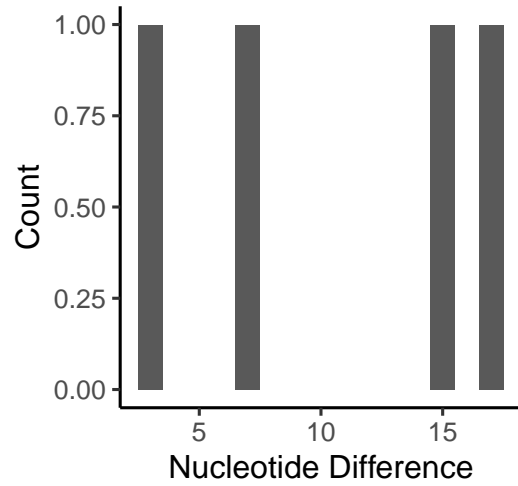
IGHV4-34*01_02

3635 sequences assigned
1531 (42.1%) exact matches, in which:
1300 unique CDR3
6 unique J



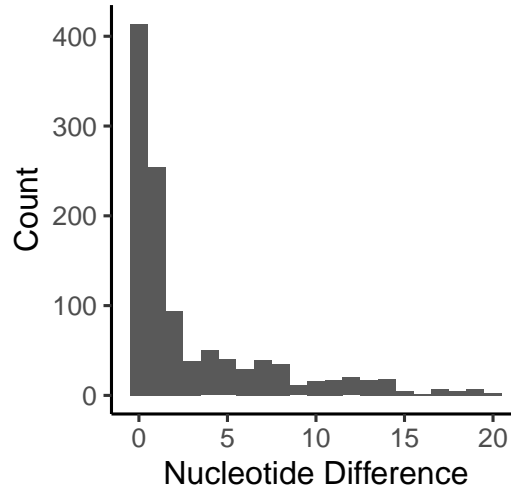
IGHV4-38-2*02

8 sequences assigned
No exact matches.



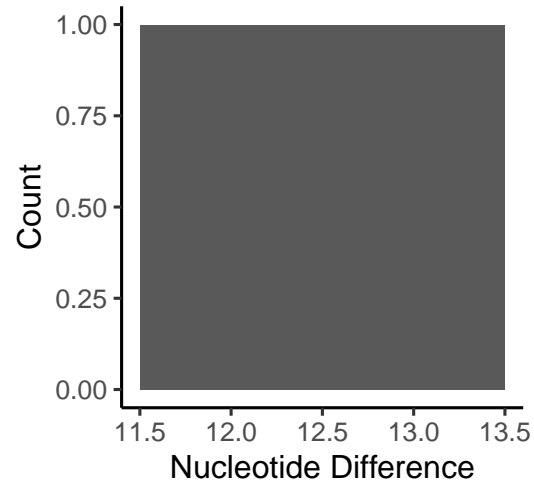
IGHV4-59*08

1625 sequences assigned
414 (25.5%) exact matches, in which:
391 unique CDR3
6 unique J



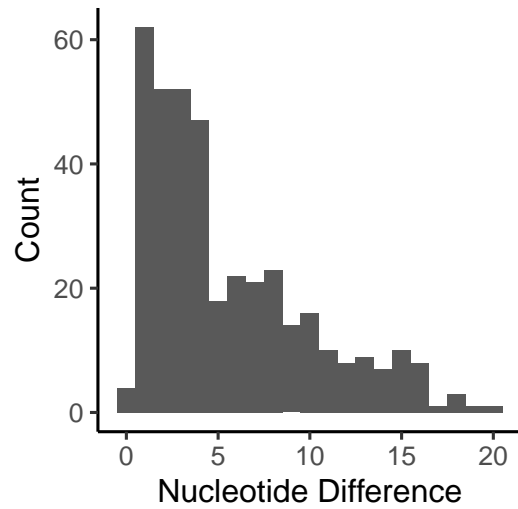
IGHV1/OR15-2*02_03

2 sequences assigned
No exact matches.



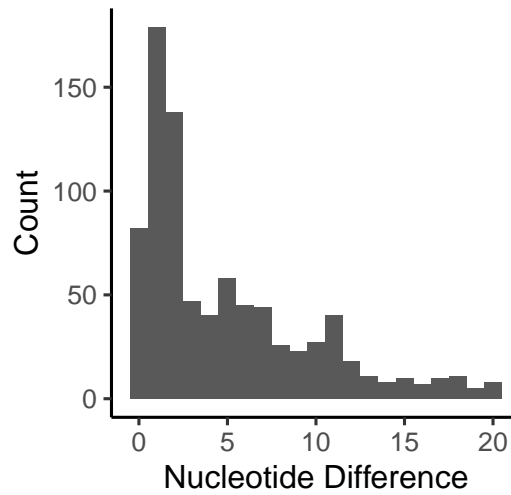
IGHV4-39*07

426 sequences assigned
4 (0.9%) exact matches, in which:
4 unique CDR3
3 unique J



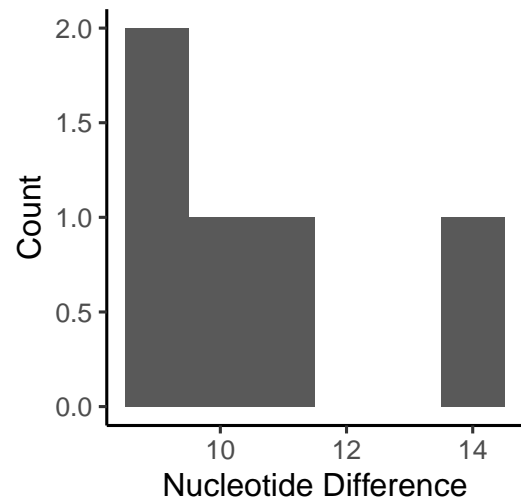
IGHV4-59*12

1286 sequences assigned
82 (6.4%) exact matches, in which:
82 unique CDR3
5 unique J



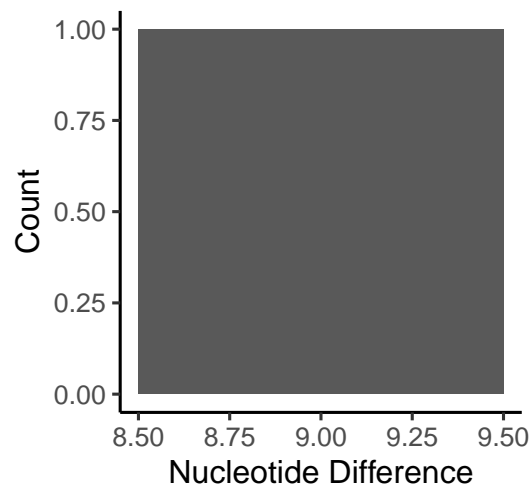
IGHV1/OR15-3*02

5 sequences assigned
No exact matches.



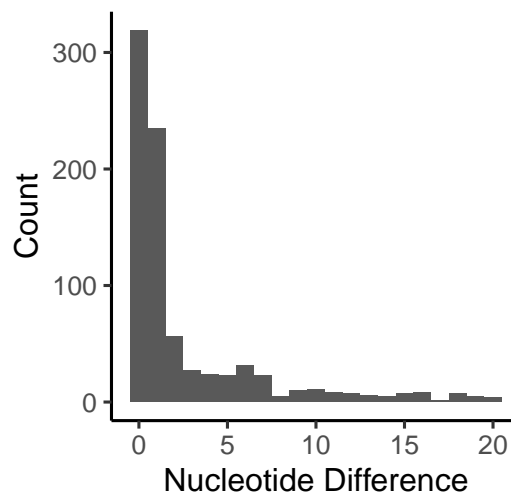
IGHV4-55*09

1 sequences assigned
No exact matches.



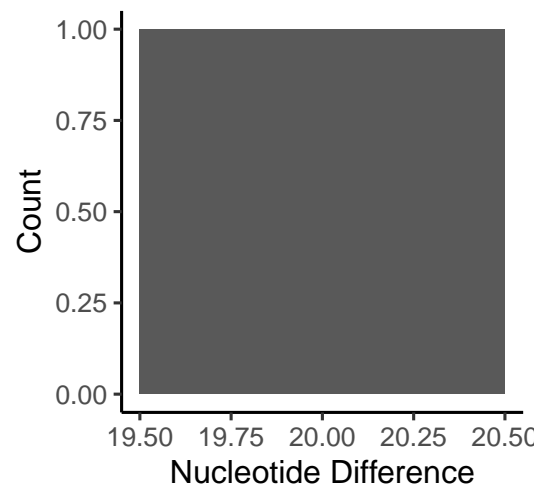
IGHV4-61*02

953 sequences assigned
319 (33.5%) exact matches, in which:
295 unique CDR3
6 unique J



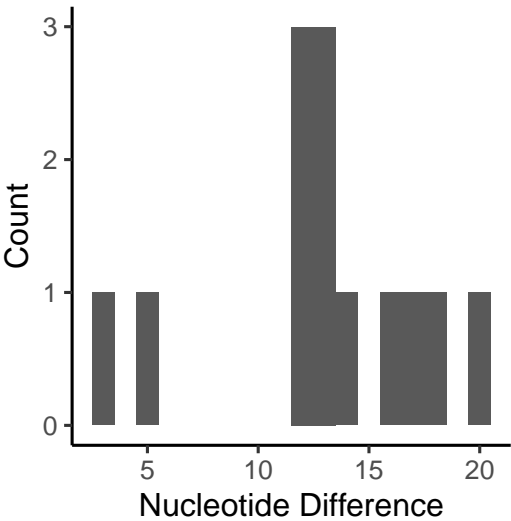
IGHV1/OR15-3*03

1 sequences assigned
No exact matches.



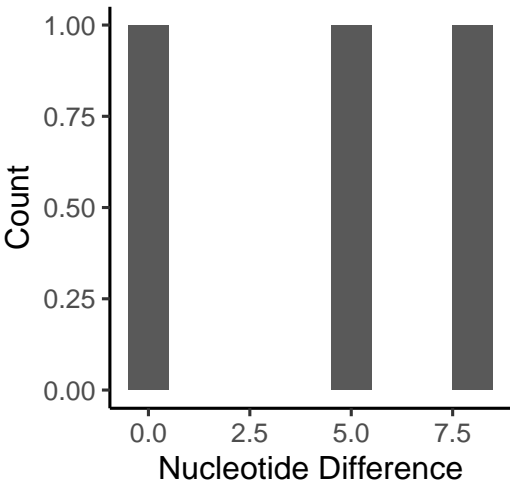
IGHV4/OR15–8*01

46 sequences assigned
No exact matches.



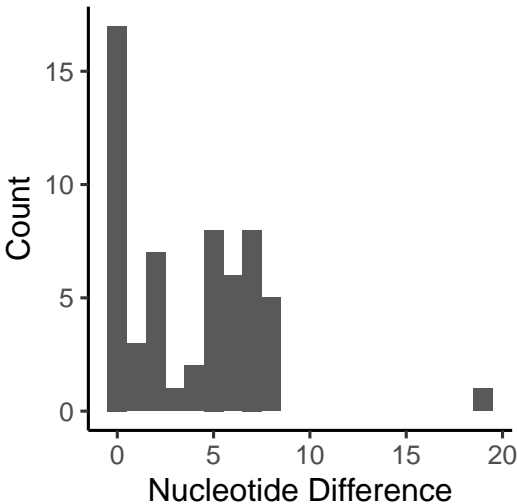
IGHV5–51*06

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



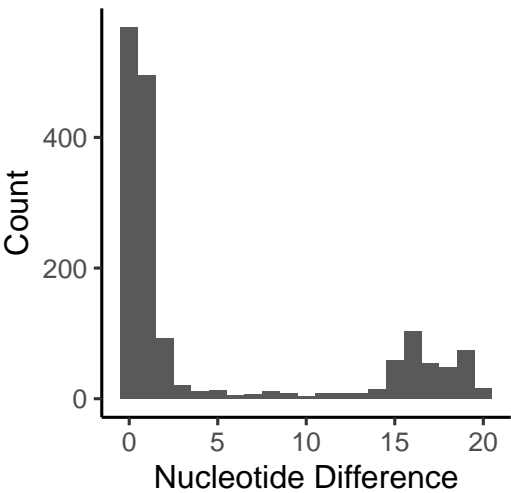
IGHV6–1*01_02_A315G

72 sequences assigned
17 (23.6%) exact matches, in which:
17 unique CDR3
5 unique J



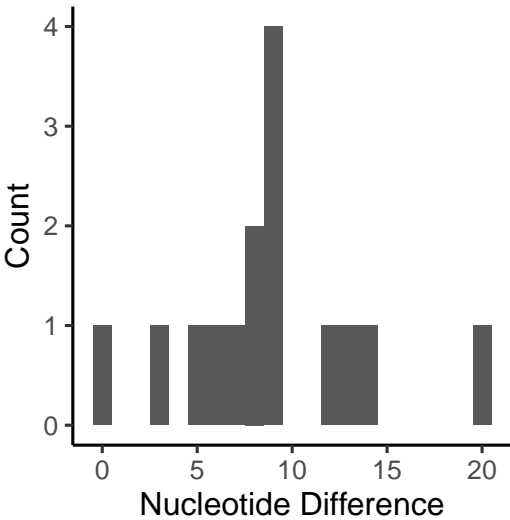
IGHV5–10–1*01_03

1724 sequences assigned
569 (33%) exact matches, in which:
467 unique CDR3
6 unique J



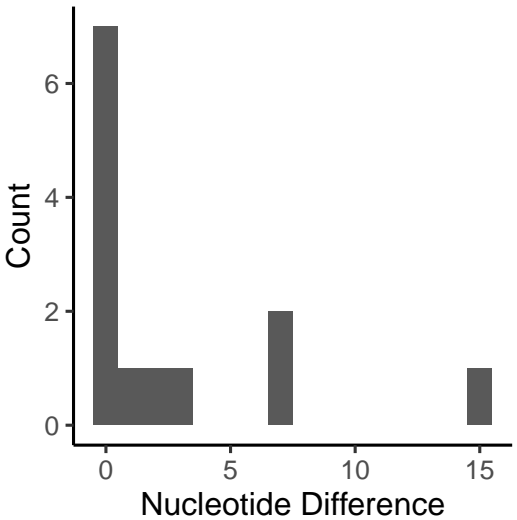
IGHV5–51*07

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



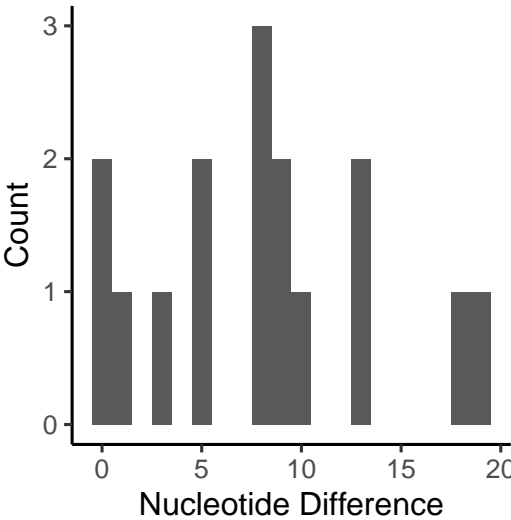
IGHV7–4–1*01

13 sequences assigned
7 (53.8%) exact matches, in which:
7 unique CDR3
2 unique J



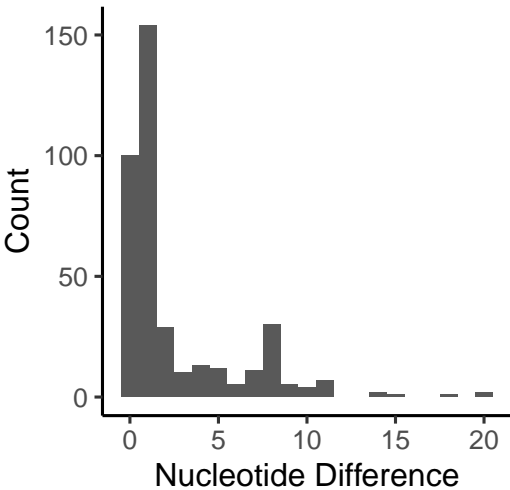
IGHV5–51*04

16 sequences assigned
2 (12.5%) exact matches, in which:
2 unique CDR3
2 unique J



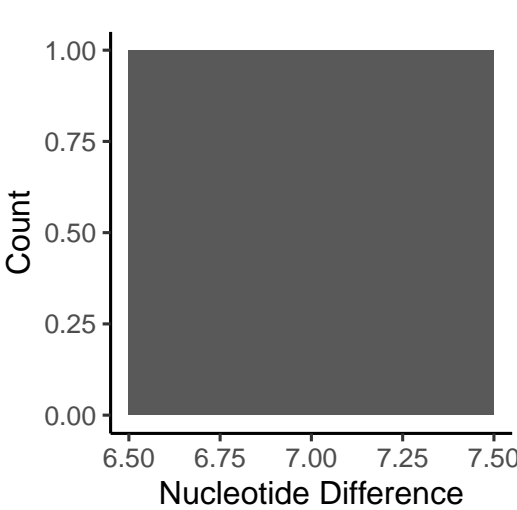
IGHV6–1*01_02

1485 sequences assigned
100 (6.7%) exact matches, in which:
88 unique CDR3
5 unique J



IGHV7–81*01

1 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G

