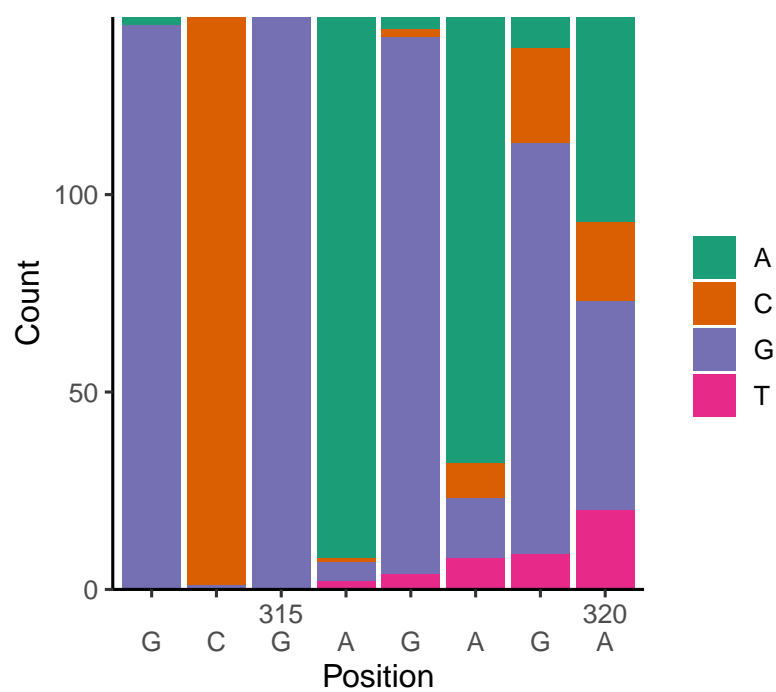


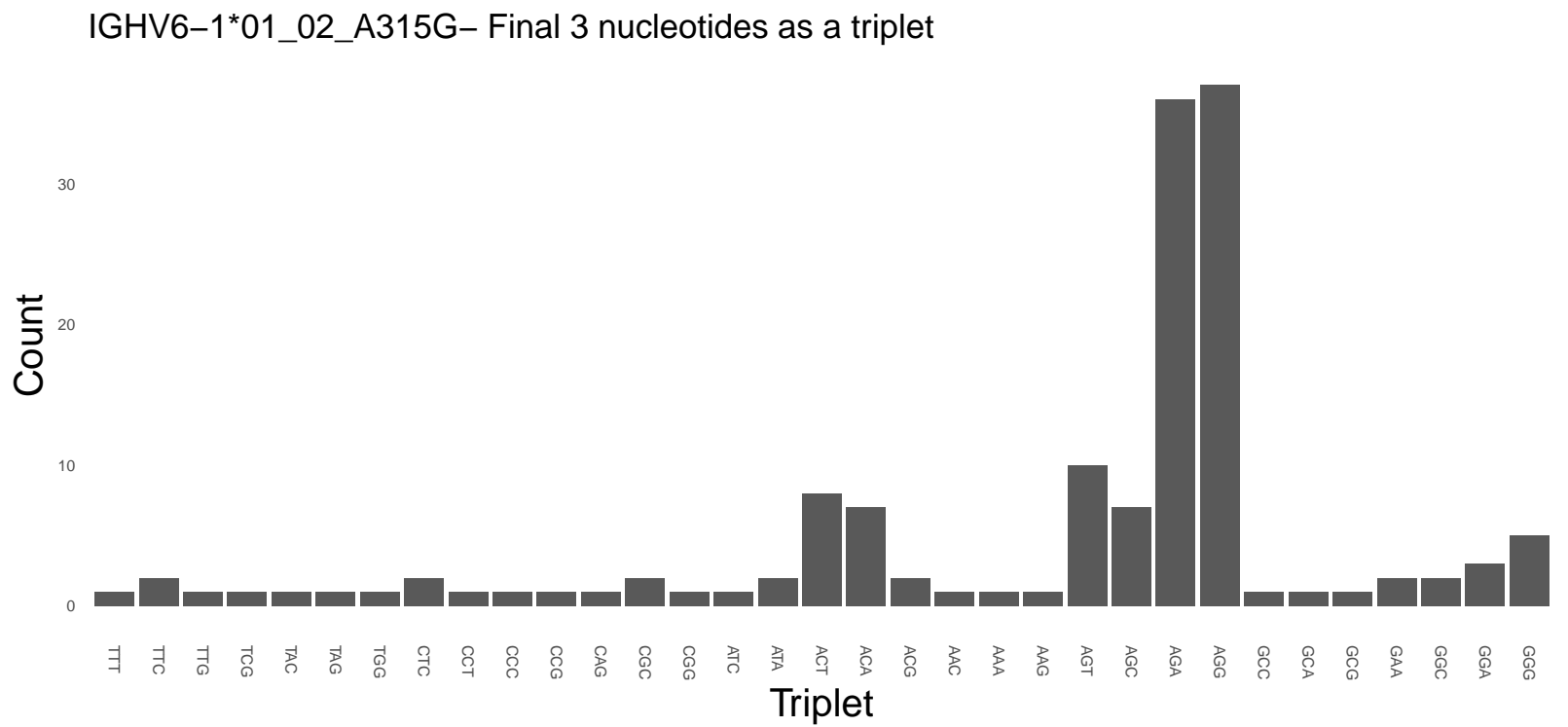
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

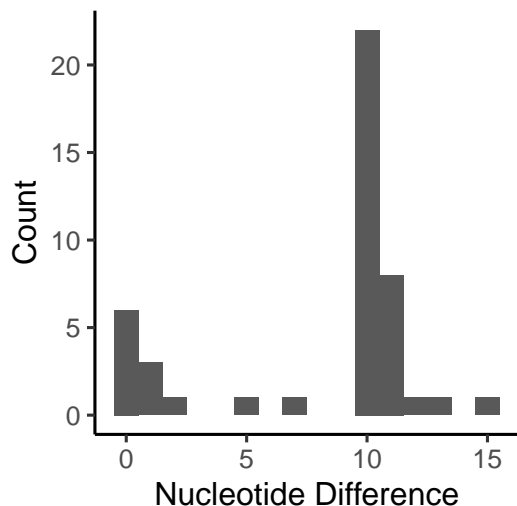


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



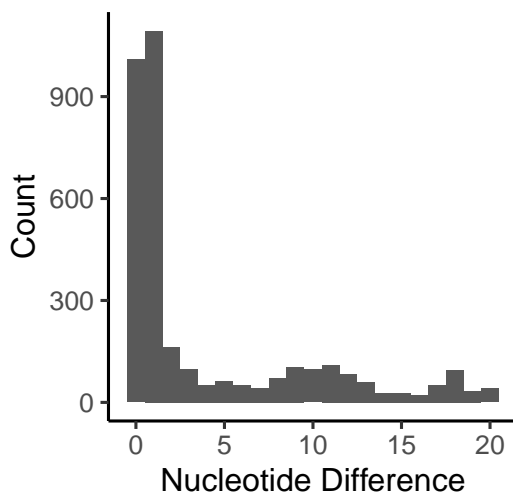
IGHV1-2*02

50 sequences assigned
6 (12%) exact matches, in which:
6 unique CDR3
2 unique J



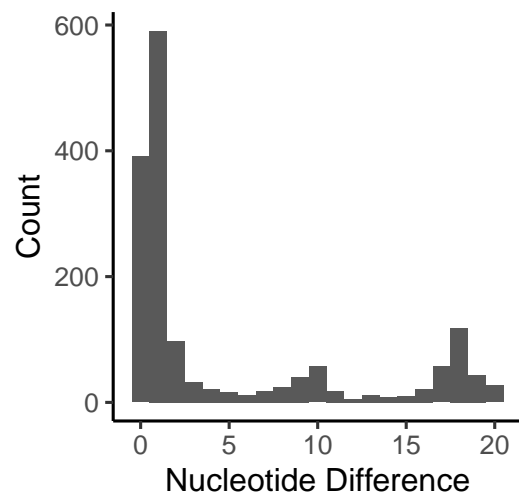
IGHV1-3*01_05

3970 sequences assigned
1009 (25.4%) exact matches, in which:
823 unique CDR3
6 unique J



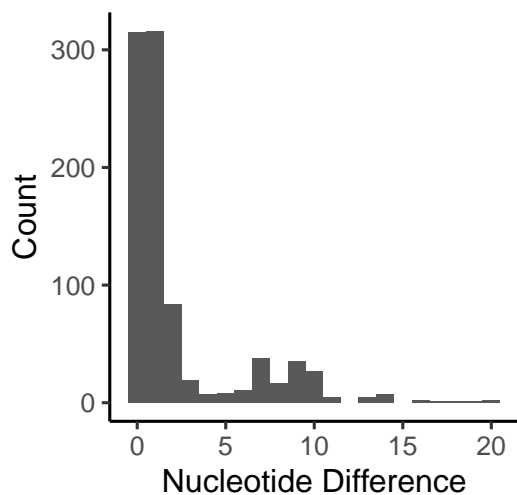
IGHV1-24*01

1831 sequences assigned
391 (21.4%) exact matches, in which:
280 unique CDR3
6 unique J



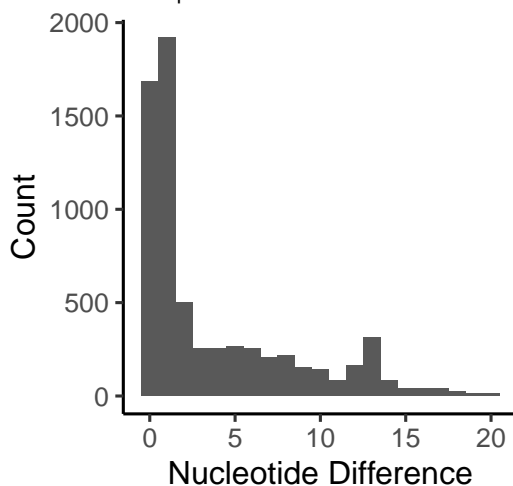
IGHV1-2*04

1004 sequences assigned
315 (31.4%) exact matches, in which:
269 unique CDR3
6 unique J



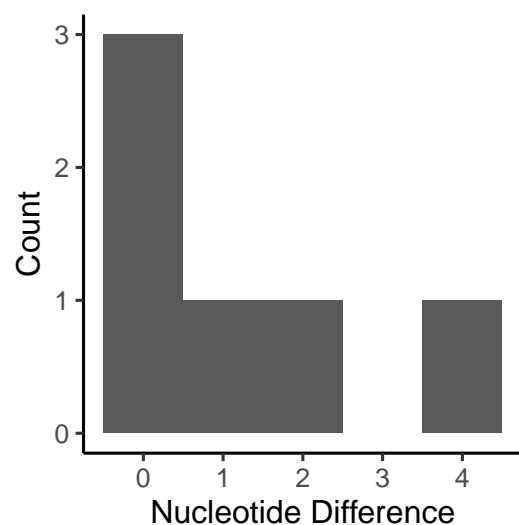
IGHV1-8*01

7866 sequences assigned
1687 (21.4%) exact matches, in which:
1420 unique CDR3
6 unique J



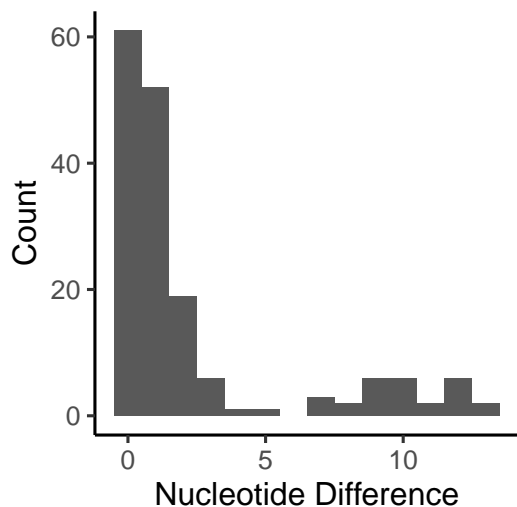
IGHV1-45*02

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
2 unique J



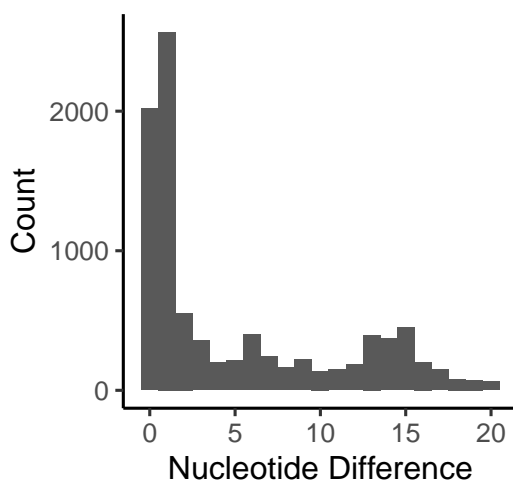
IGHV1-2*05

168 sequences assigned
61 (36.3%) exact matches, in which:
50 unique CDR3
5 unique J



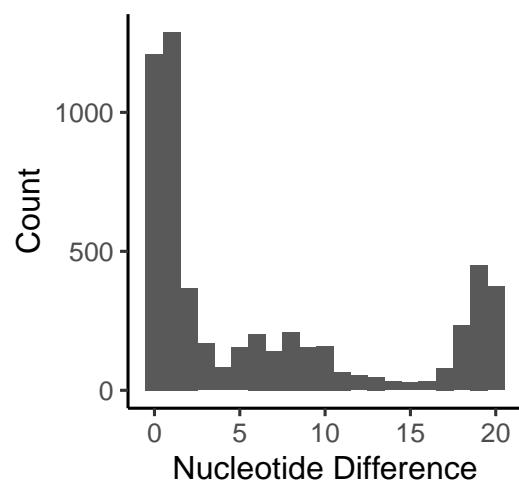
IGHV1-18*01

10373 sequences assigned
2019 (19.5%) exact matches, in which:
1630 unique CDR3
6 unique J



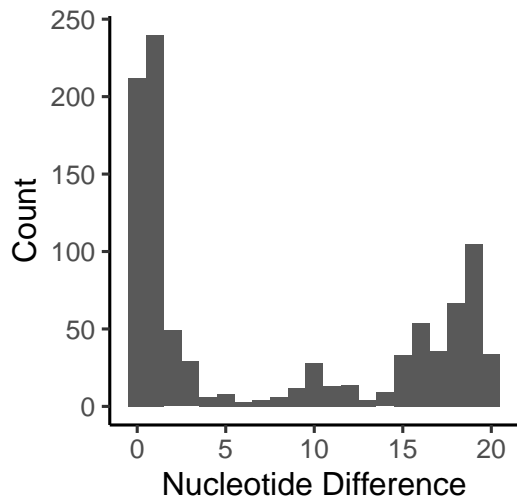
IGHV1-46*01

6365 sequences assigned
1209 (19%) exact matches, in which:
1021 unique CDR3
6 unique J



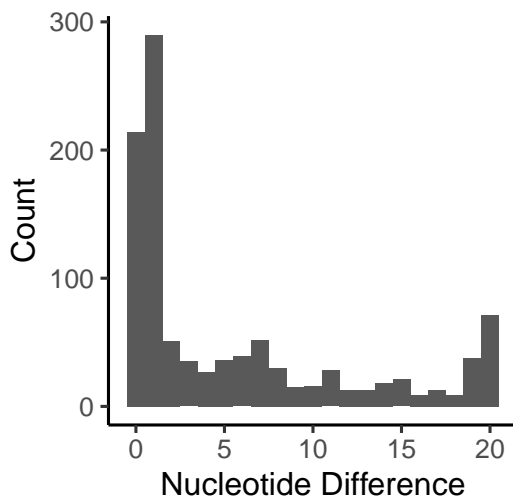
IGHV1–58*01_03

1204 sequences assigned
212 (17.6%) exact matches, in which:
175 unique CDR3
6 unique J



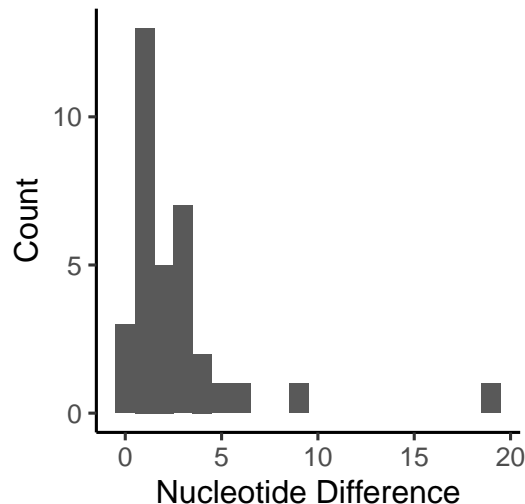
IGHV2–5*02

1116 sequences assigned
214 (19.2%) exact matches, in which:
175 unique CDR3
6 unique J



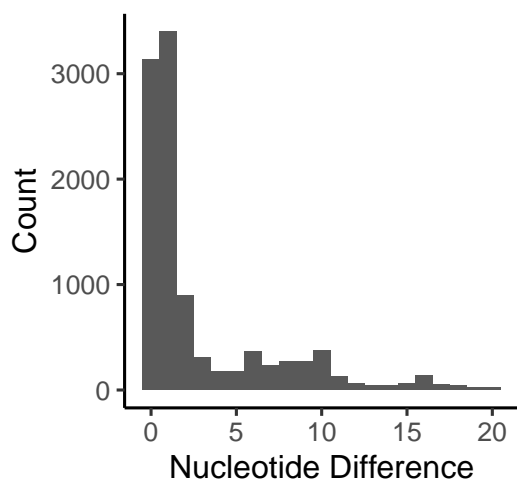
IGHV2–70*12

34 sequences assigned
3 (8.8%) exact matches, in which:
3 unique CDR3
3 unique J



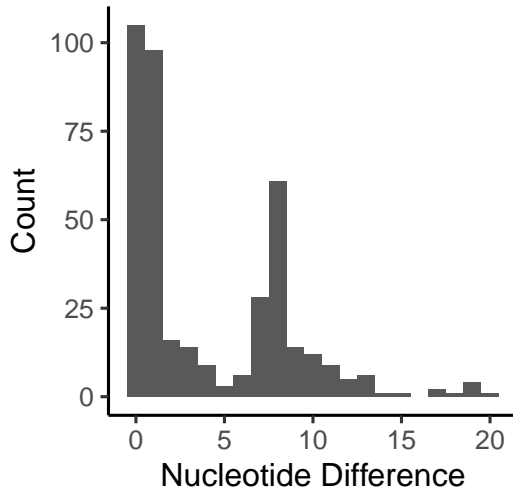
IGHV1–69*01_12_13

10783 sequences assigned
3137 (29.1%) exact matches, in which:
2635 unique CDR3
6 unique J



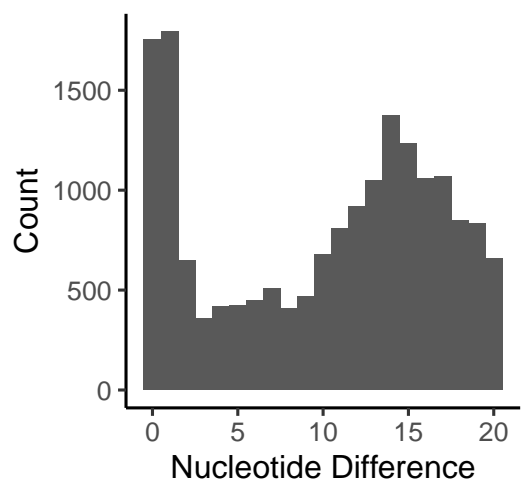
IGHV2–26*01

404 sequences assigned
105 (26%) exact matches, in which:
92 unique CDR3
5 unique J



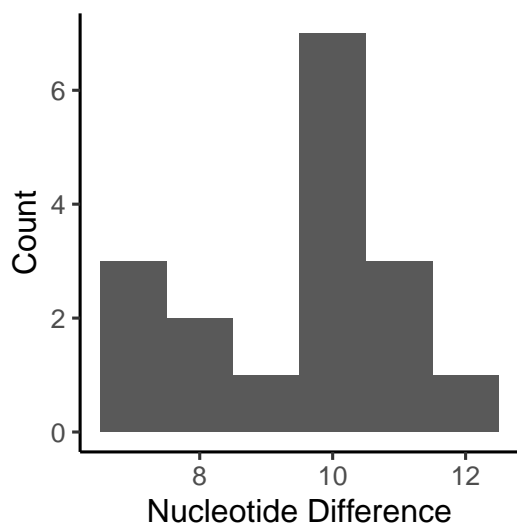
IGHV3–7*01

21908 sequences assigned
1754 (8%) exact matches, in which:
1150 unique CDR3
6 unique J



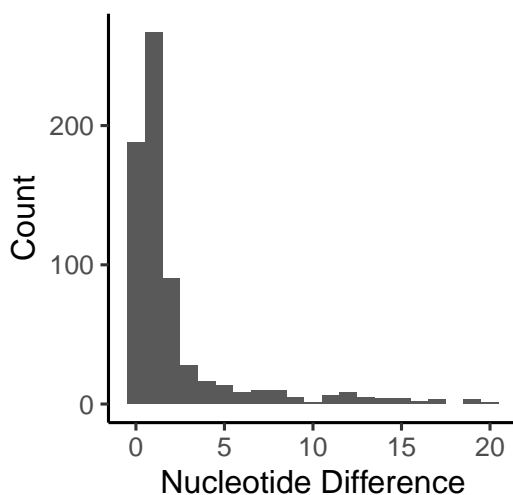
IGHV1–NL1*01

17 sequences assigned
No exact matches.



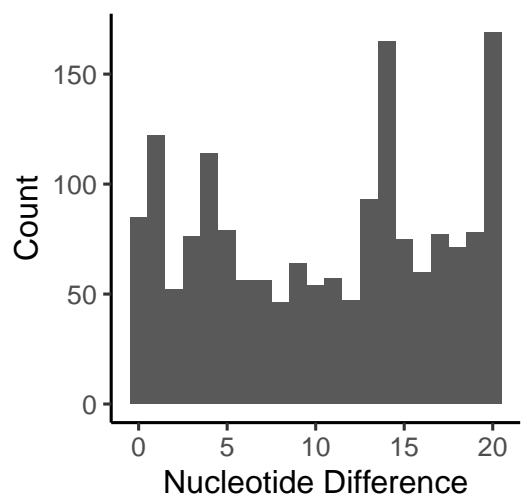
IGHV2–70*01

684 sequences assigned
188 (27.5%) exact matches, in which:
151 unique CDR3
4 unique J



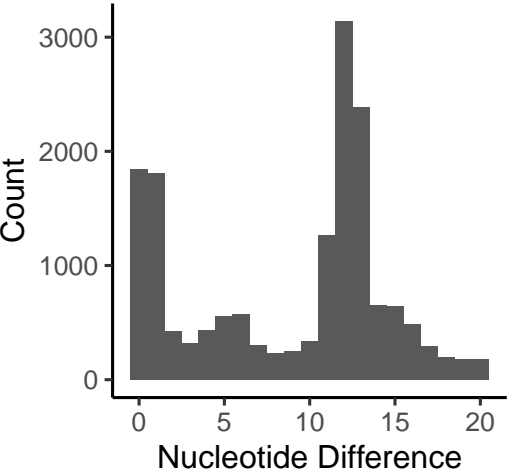
IGHV3–7*03

2472 sequences assigned
85 (3.4%) exact matches, in which:
76 unique CDR3
6 unique J



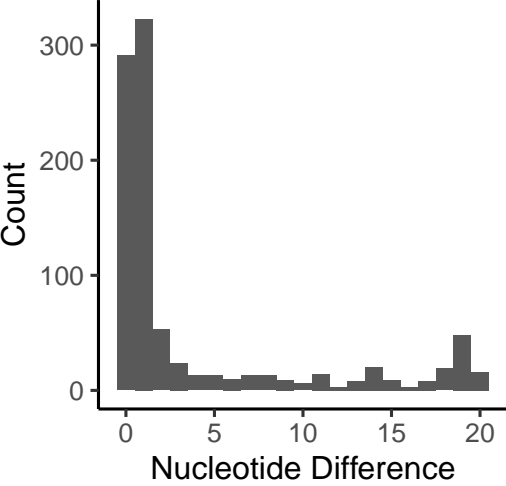
IGHV3-9*01

17563 sequences assigned
1841 (10.5%) exact matches, in which:
1022 unique CDR3
6 unique J



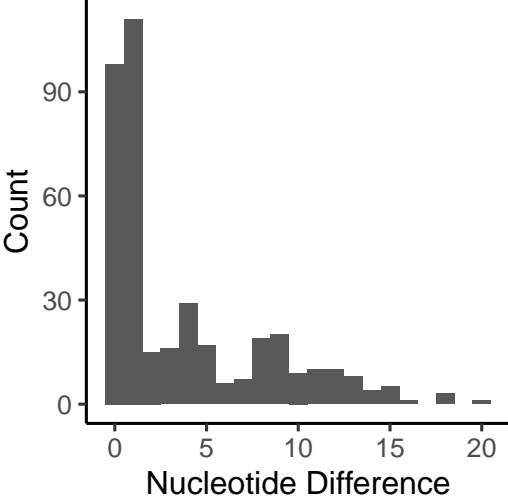
IGHV3-13*01

1008 sequences assigned
291 (28.9%) exact matches, in which:
155 unique CDR3
5 unique J



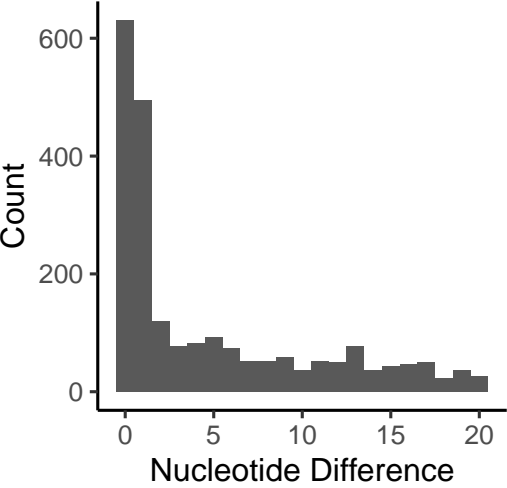
IGHV3-20*01_02

445 sequences assigned
98 (22%) exact matches, in which:
59 unique CDR3
5 unique J



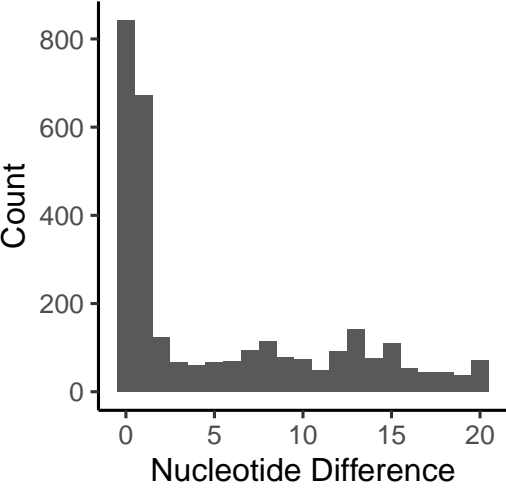
IGHV3-11*01

2673 sequences assigned
631 (23.6%) exact matches, in which:
419 unique CDR3
6 unique J



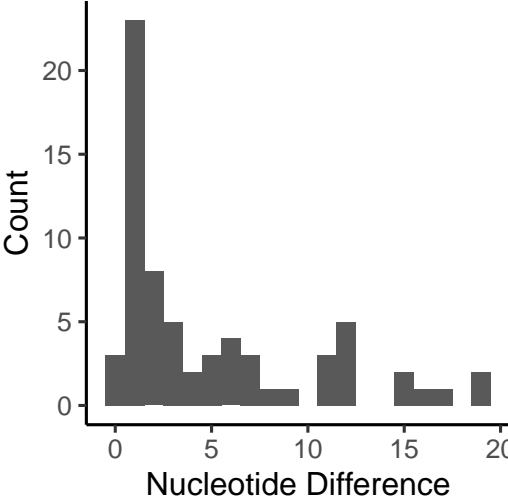
IGHV3-15*01_02

4370 sequences assigned
843 (19.3%) exact matches, in which:
487 unique CDR3
6 unique J



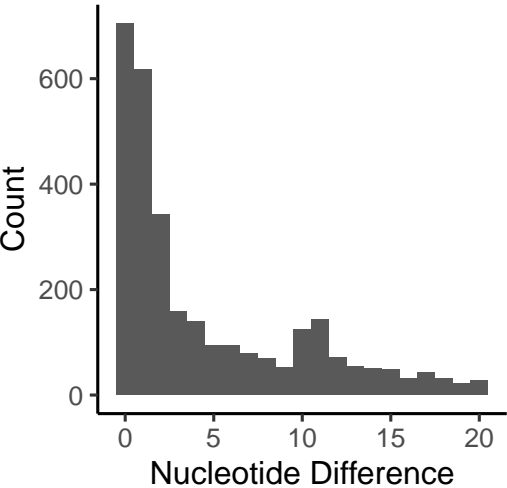
IGHV3-20*03_04

174 sequences assigned
3 (1.7%) exact matches, in which:
3 unique CDR3
2 unique J



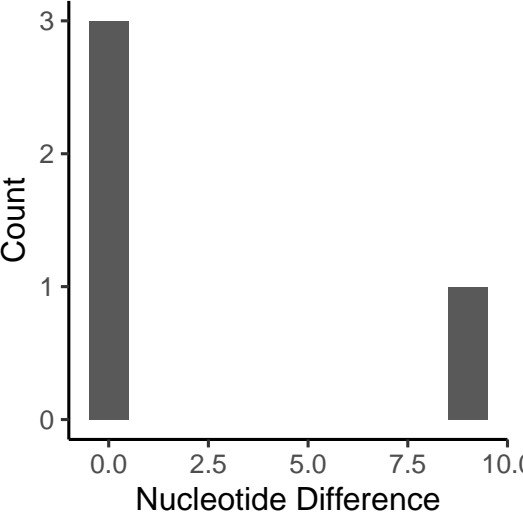
IGHV3-11*04

3512 sequences assigned
705 (20.1%) exact matches, in which:
516 unique CDR3
6 unique J



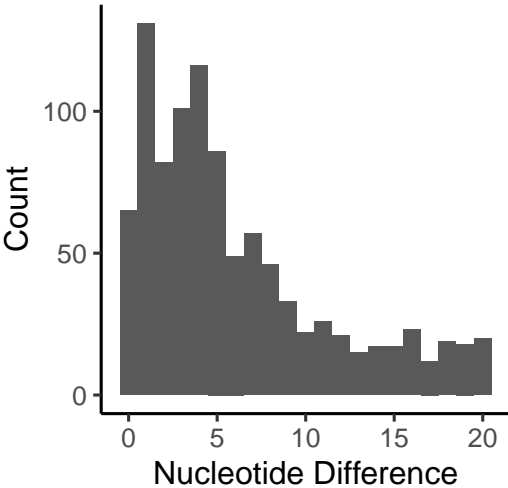
IGHV3-19*01

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



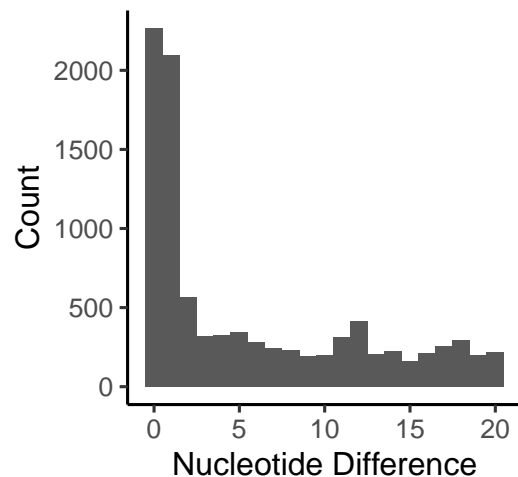
IGHV3-21*04

1094 sequences assigned
65 (5.9%) exact matches, in which:
62 unique CDR3
6 unique J



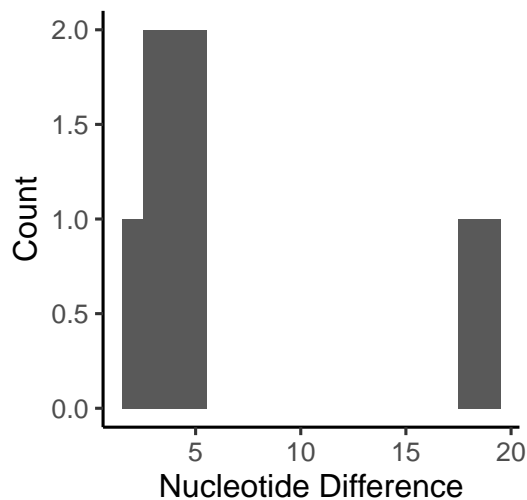
IGHV3-21*01_02

12836 sequences assigned
2265 (17.6%) exact matches, in which:
1411 unique CDR3
6 unique J



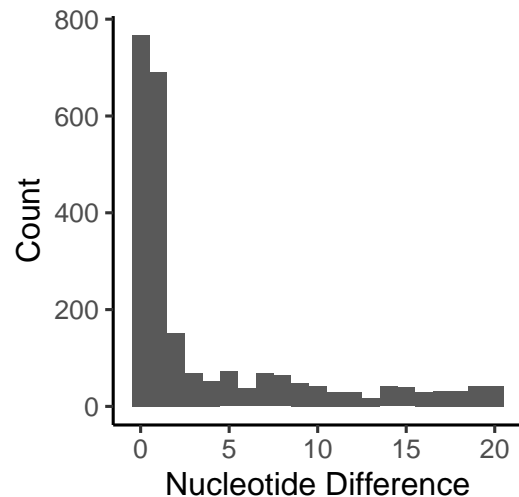
IGHV3-30-3*02

16 sequences assigned
No exact matches.



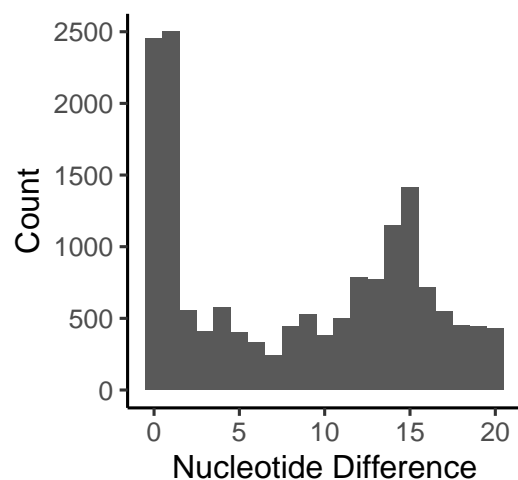
IGHV3-30*18

3122 sequences assigned
768 (24.6%) exact matches, in which:
446 unique CDR3
6 unique J



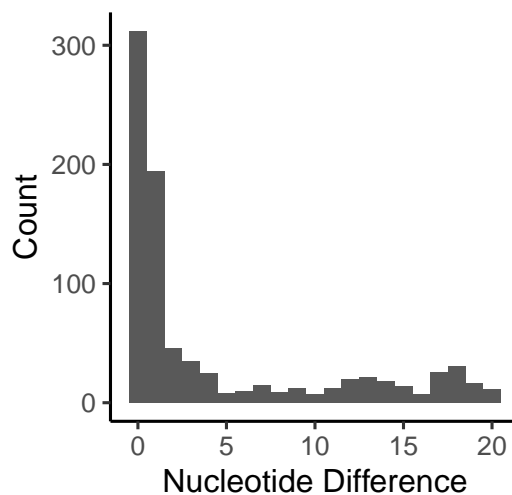
IGHV3-23*01_04

21822 sequences assigned
2453 (11.2%) exact matches, in which:
1402 unique CDR3
6 unique J



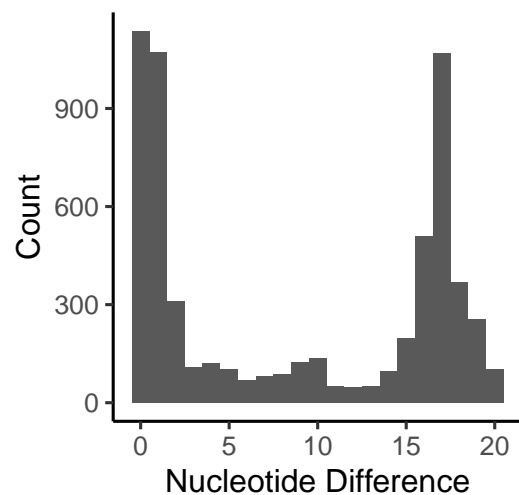
IGHV3-30*03

1079 sequences assigned
312 (28.9%) exact matches, in which:
288 unique CDR3
6 unique J



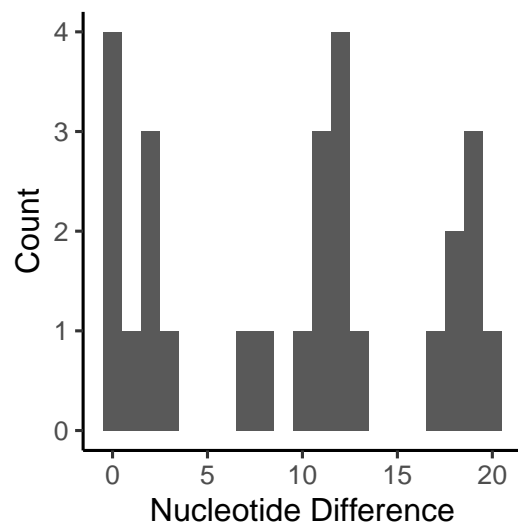
IGHV3-33*01

7412 sequences assigned
1137 (15.3%) exact matches, in which:
753 unique CDR3
6 unique J



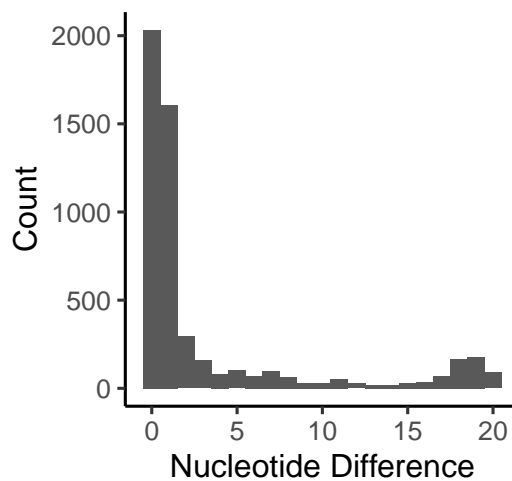
IGHV3-30-3*01

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



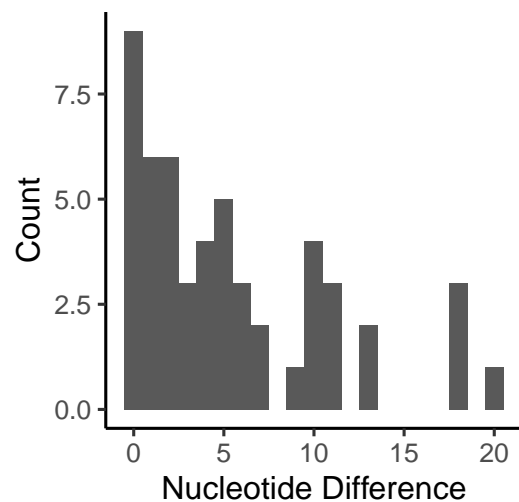
IGHV3-30*04

5837 sequences assigned
2032 (34.8%) exact matches, in which:
1333 unique CDR3
6 unique J



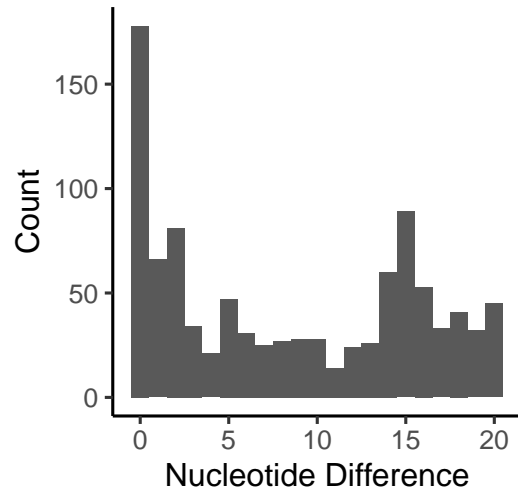
IGHV3-33*05

70 sequences assigned
9 (12.9%) exact matches, in which:
9 unique CDR3
3 unique J



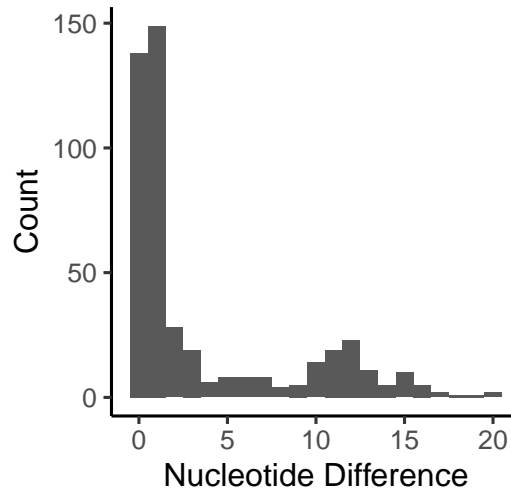
IGHV3–33*08

1277 sequences assigned
178 (13.9%) exact matches, in which:
144 unique CDR3
6 unique J



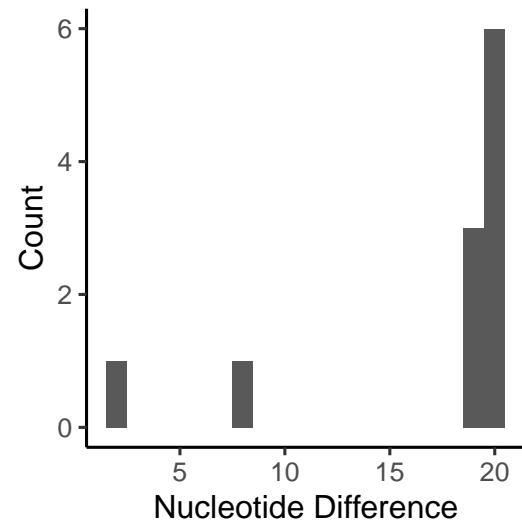
IGHV3–43*01

577 sequences assigned
138 (23.9%) exact matches, in which:
89 unique CDR3
6 unique J



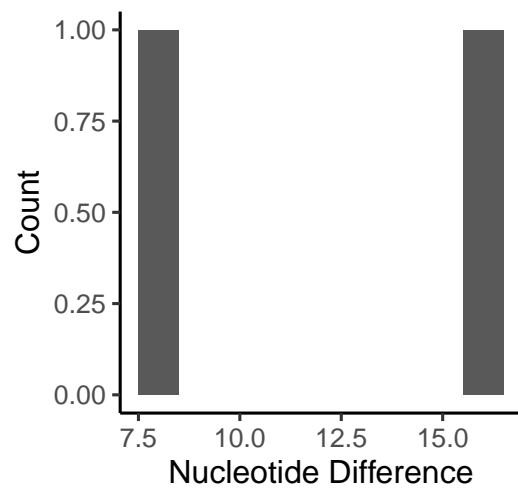
IGHV3–47*02

11 sequences assigned
No exact matches.



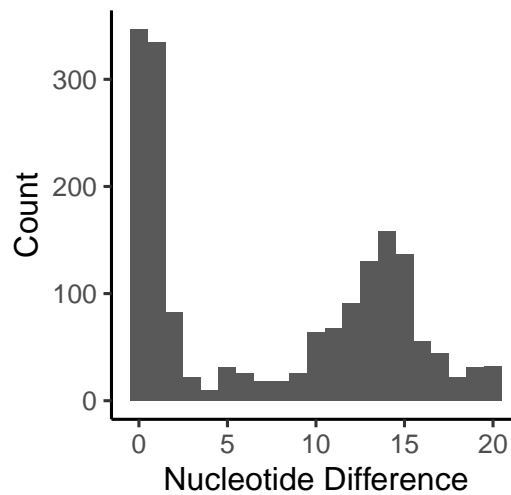
IGHV3–35*01

2 sequences assigned
No exact matches.



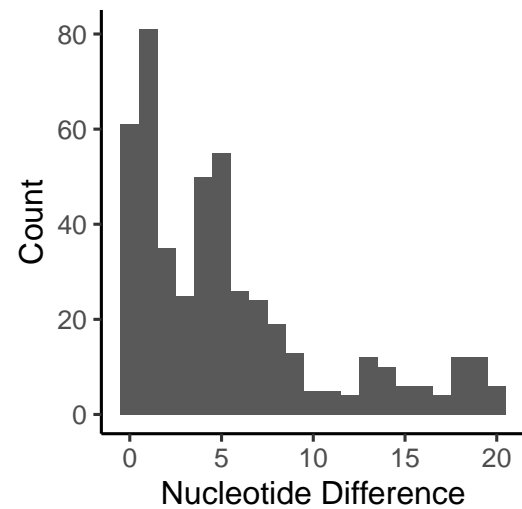
IGHV3–43*02

2062 sequences assigned
347 (16.8%) exact matches, in which:
212 unique CDR3
6 unique J



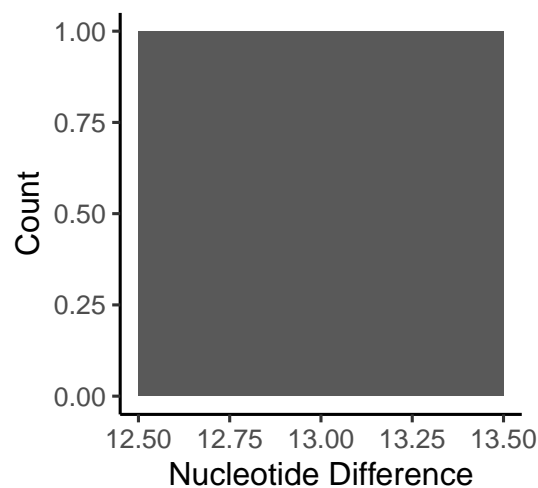
IGHV3–48*01

503 sequences assigned
61 (12.1%) exact matches, in which:
60 unique CDR3
5 unique J



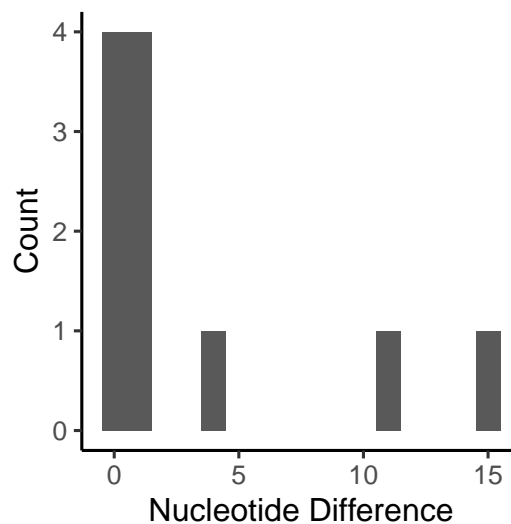
IGHV3–38*01

1 sequences assigned
No exact matches.



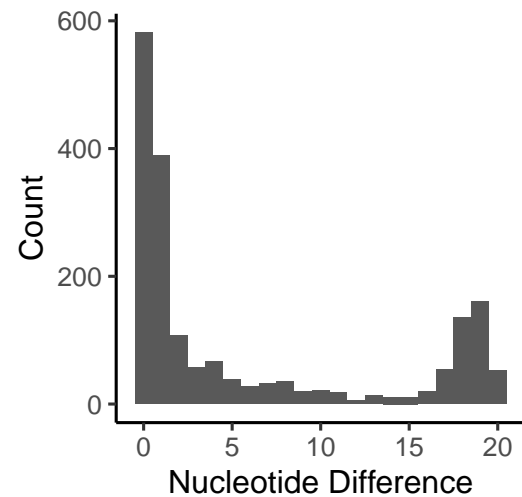
IGHV3–47*01

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



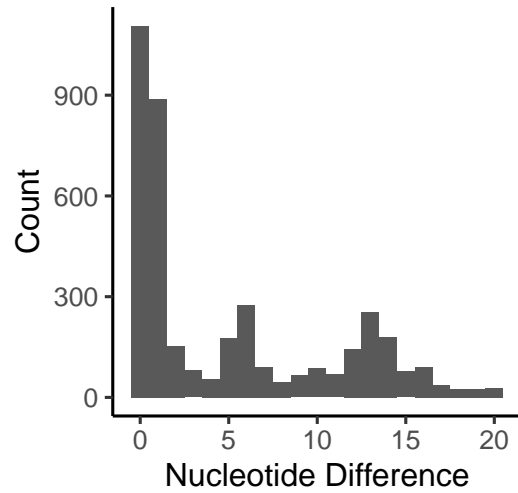
IGHV3–48*02

2116 sequences assigned
582 (27.5%) exact matches, in which:
363 unique CDR3
6 unique J



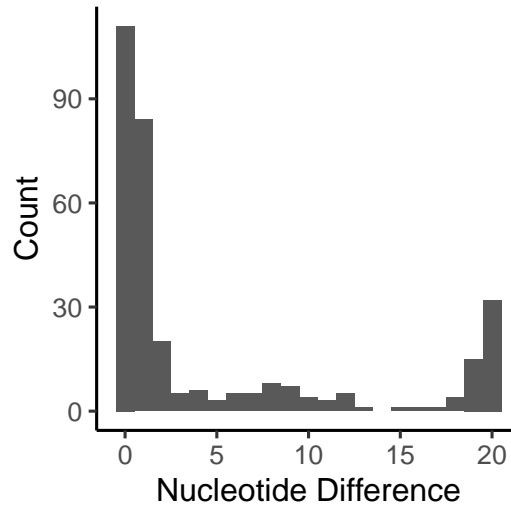
IGHV3-48*03

4469 sequences assigned
1107 (24.8%) exact matches, in which:
654 unique CDR3
6 unique J



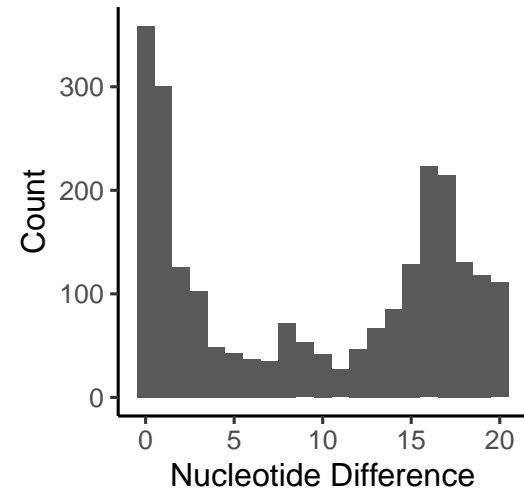
IGHV3-49*03_05

351 sequences assigned
111 (31.6%) exact matches, in which:
66 unique CDR3
5 unique J



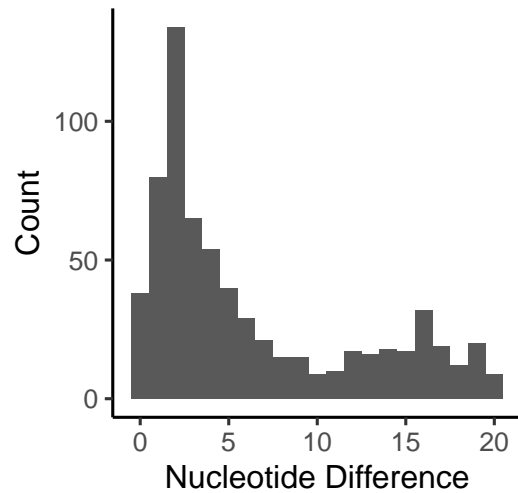
IGHV3-53*01_02

4550 sequences assigned
359 (7.9%) exact matches, in which:
240 unique CDR3
6 unique J



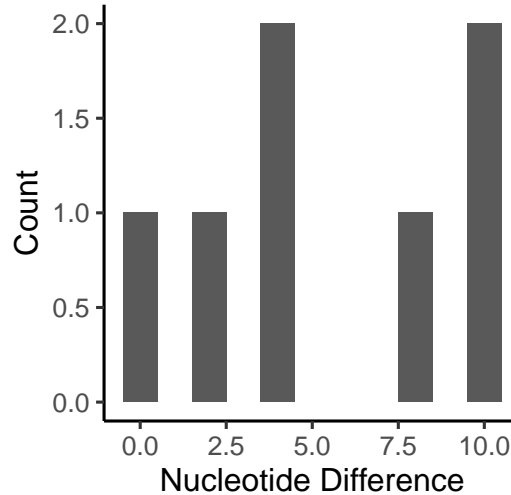
IGHV3-48*04

750 sequences assigned
38 (5.1%) exact matches, in which:
38 unique CDR3
4 unique J



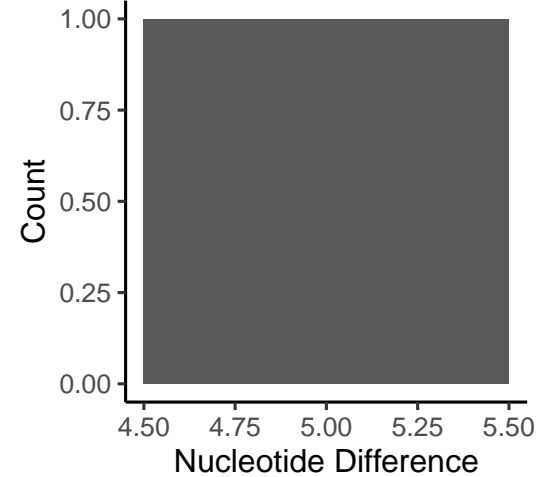
IGHV3-52*01_03

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



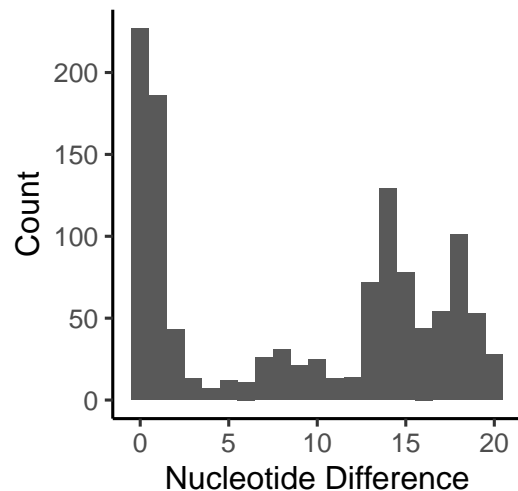
IGHV3-62*03

1 sequences assigned
No exact matches.



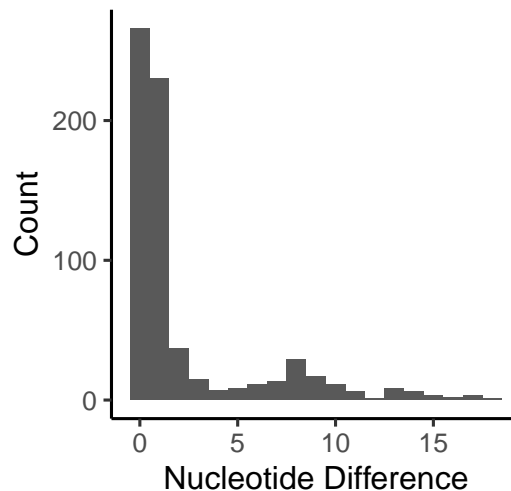
IGHV3-49*04

1446 sequences assigned
227 (15.7%) exact matches, in which:
133 unique CDR3
6 unique J



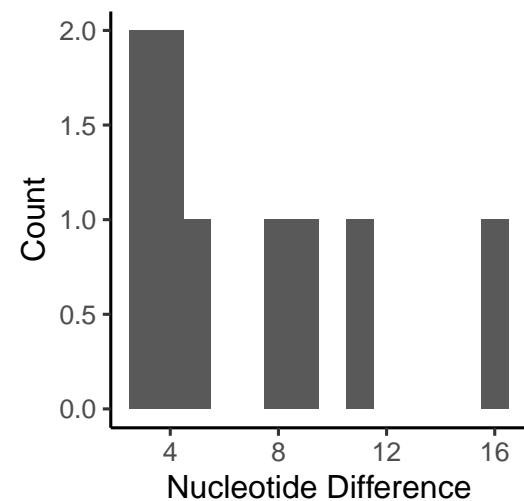
IGHV3-53*04

830 sequences assigned
266 (32%) exact matches, in which:
171 unique CDR3
5 unique J



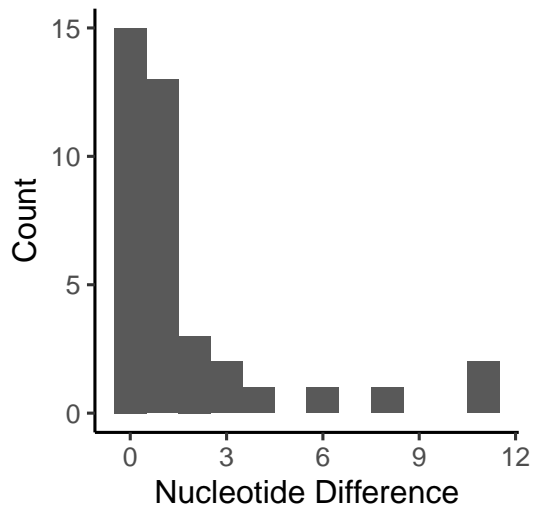
IGHV3-64*04

12 sequences assigned
No exact matches.



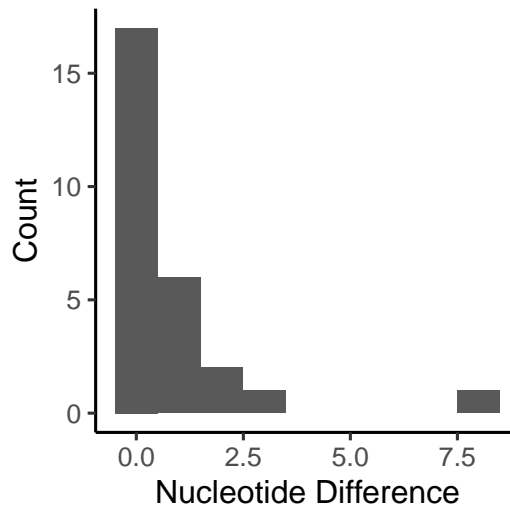
IGHV3-64*02_07

39 sequences assigned
15 (38.5%) exact matches, in which:
12 unique CDR3
2 unique J



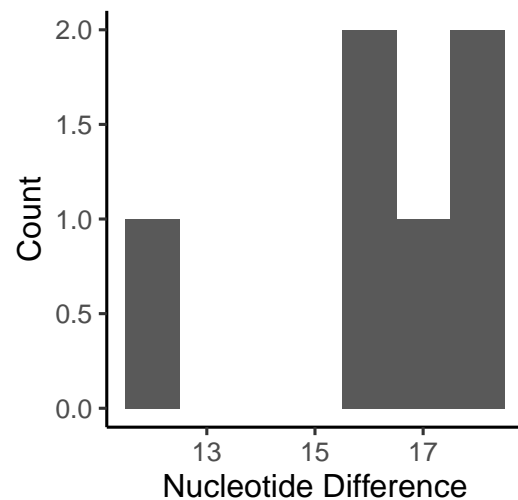
IGHV3-66*03

29 sequences assigned
17 (58.6%) exact matches, in which:
16 unique CDR3
3 unique J



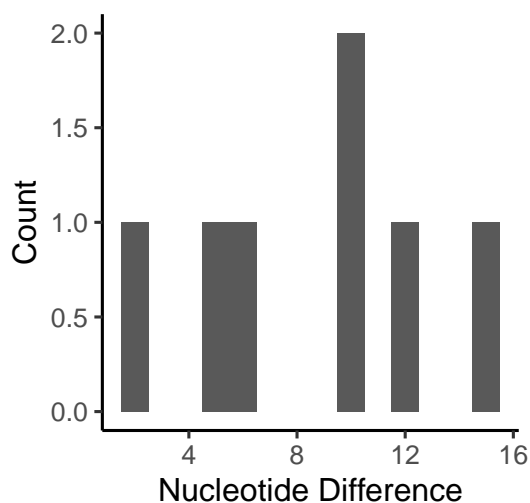
IGHV3-69-1*02

16 sequences assigned
No exact matches.



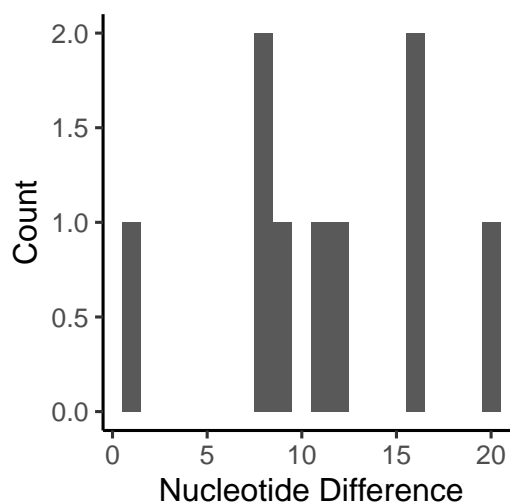
IGHV3-66*01

11 sequences assigned
No exact matches.



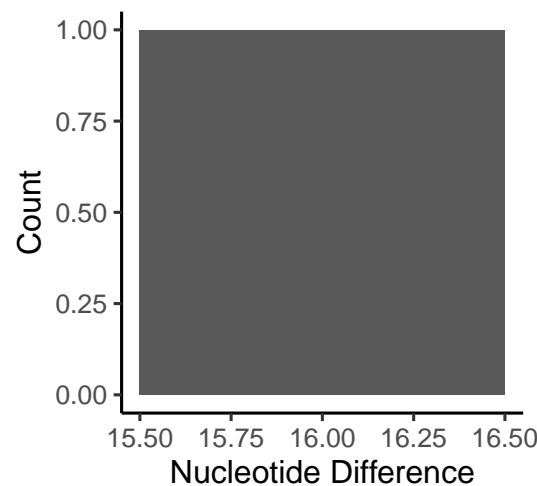
IGHV3-66*04

13 sequences assigned
No exact matches.



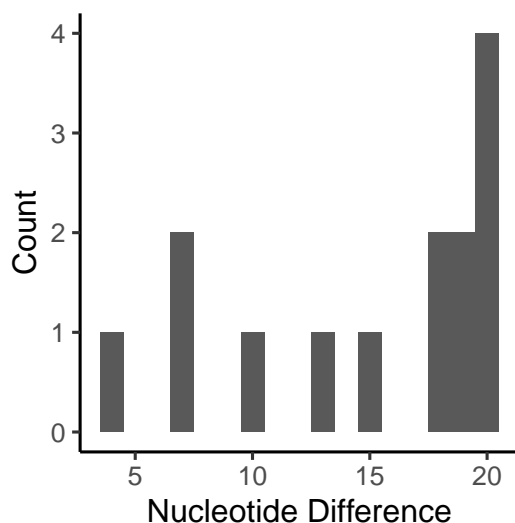
IGHV3-71*01_04

2 sequences assigned
No exact matches.



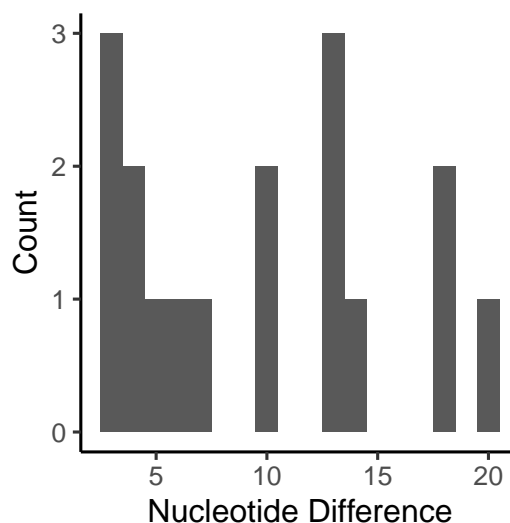
IGHV3-66*02

145 sequences assigned
No exact matches.



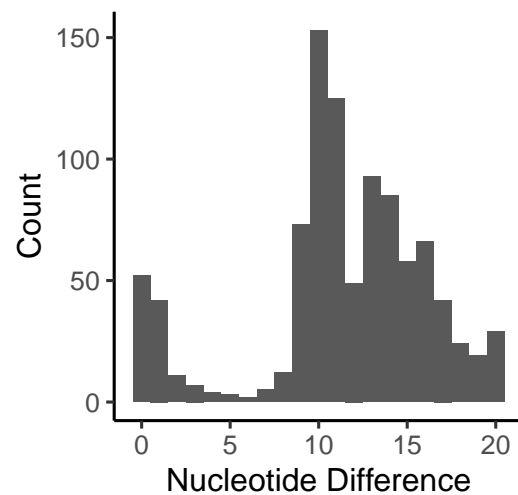
IGHV3-69-1*01

36 sequences assigned
No exact matches.



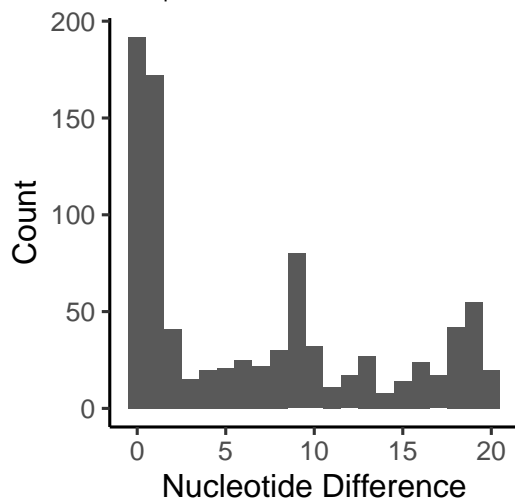
IGHV3-72*01

1486 sequences assigned
52 (3.5%) exact matches, in which:
30 unique CDR3
5 unique J



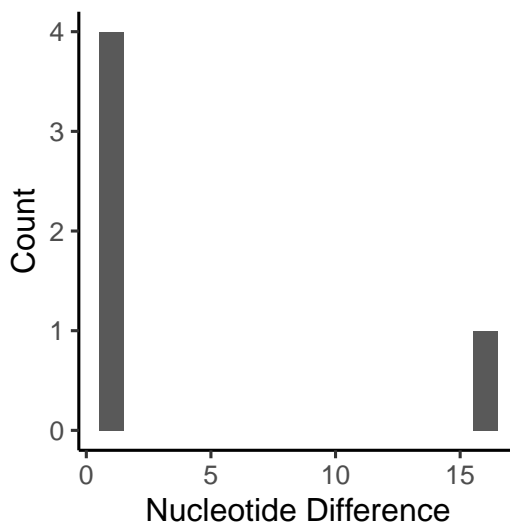
IGHV3-73*01_02

1363 sequences assigned
192 (14.1%) exact matches, in which:
120 unique CDR3
6 unique J



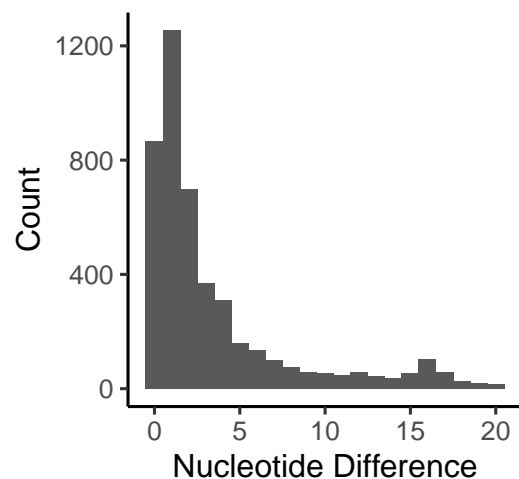
IGHV3-43D*04

5 sequences assigned
No exact matches.



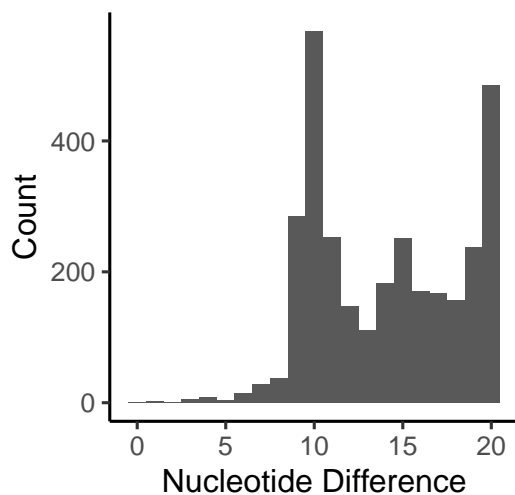
IGHV4-4*07

5405 sequences assigned
866 (16%) exact matches, in which:
673 unique CDR3
6 unique J



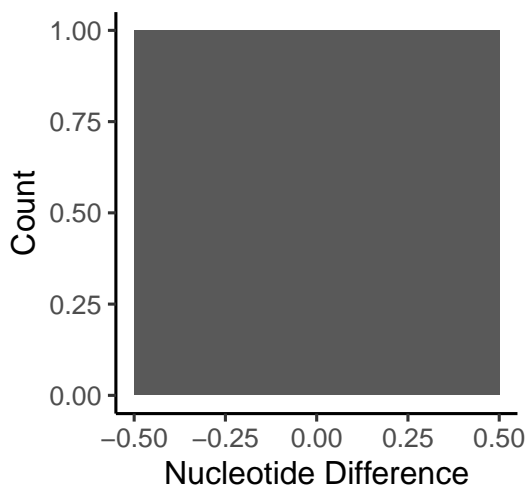
IGHV3-74*03

5684 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



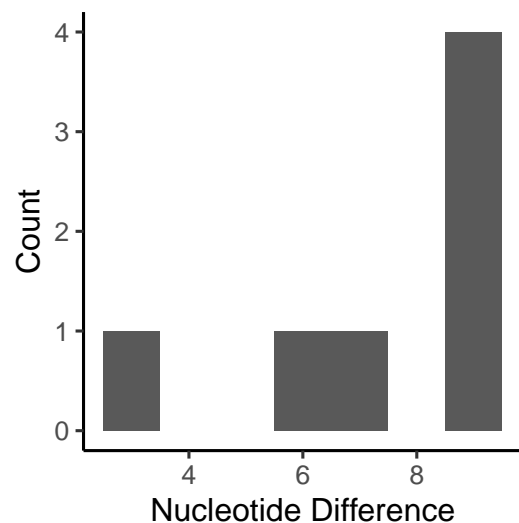
IGHV3-64D*06

71 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



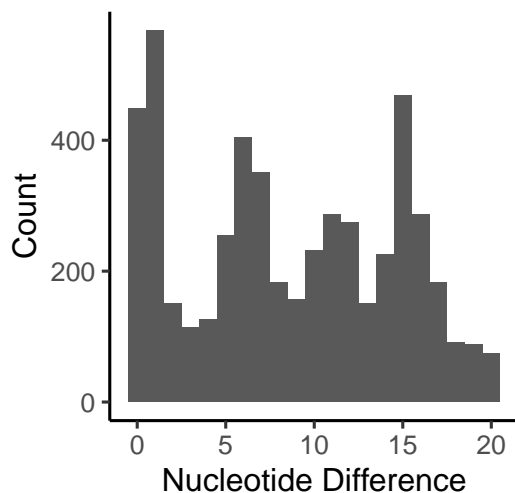
IGHV4-28*02_05

7 sequences assigned
No exact matches.



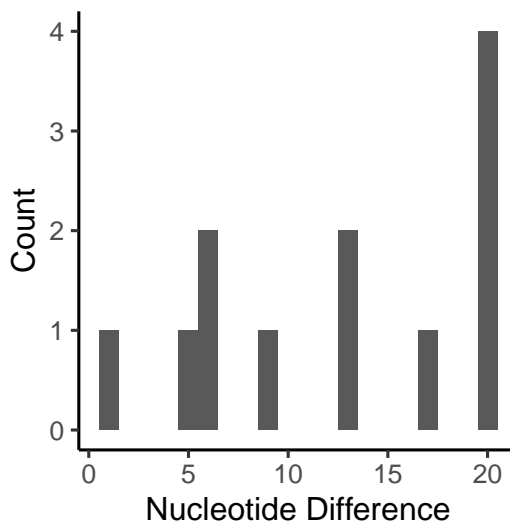
IGHV3-74*01_02

5766 sequences assigned
449 (7.8%) exact matches, in which:
260 unique CDR3
5 unique J



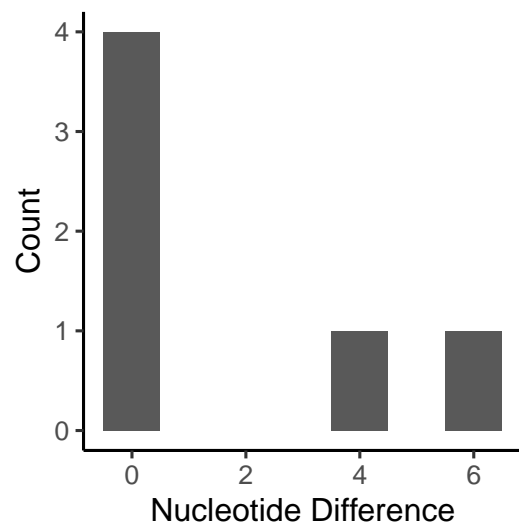
IGHV3-NL1*01

43 sequences assigned
No exact matches.



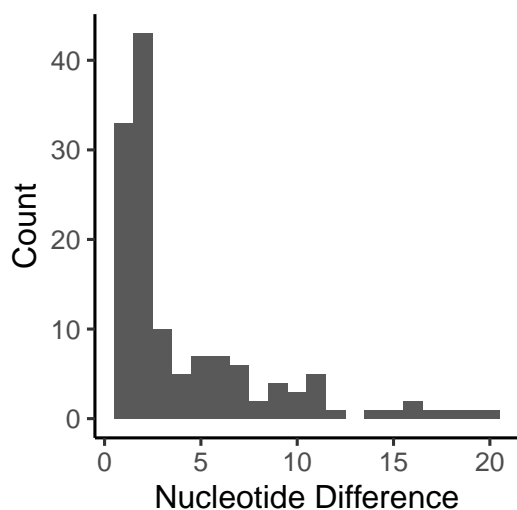
IGHV4-30-4*01

10 sequences assigned
4 (40%) exact matches, in which:
4 unique CDR3
3 unique J



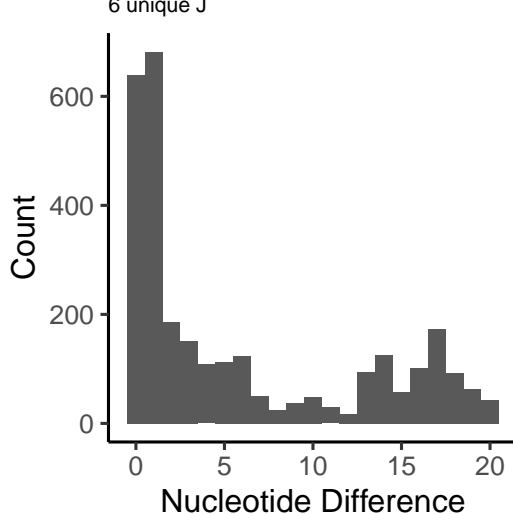
IGHV4-30-2*03

166 sequences assigned
No exact matches.



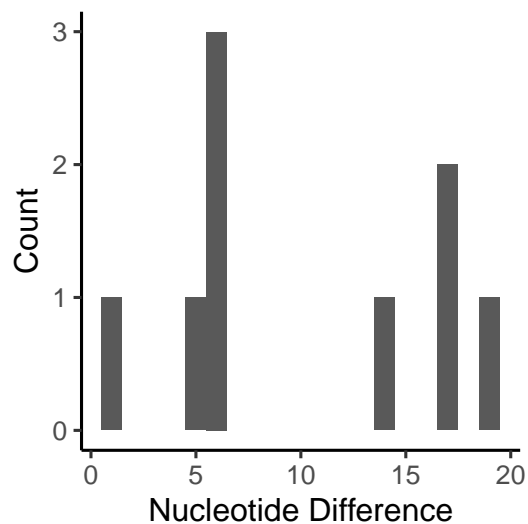
IGHV4-31*02

3749 sequences assigned
639 (17%) exact matches, in which:
528 unique CDR3
6 unique J



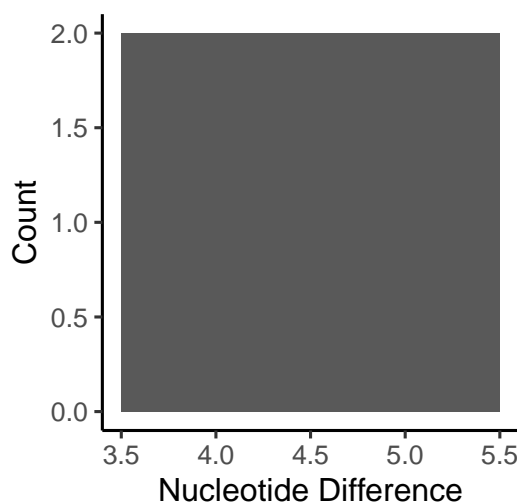
IGHV4-38-2*02

41 sequences assigned
No exact matches.



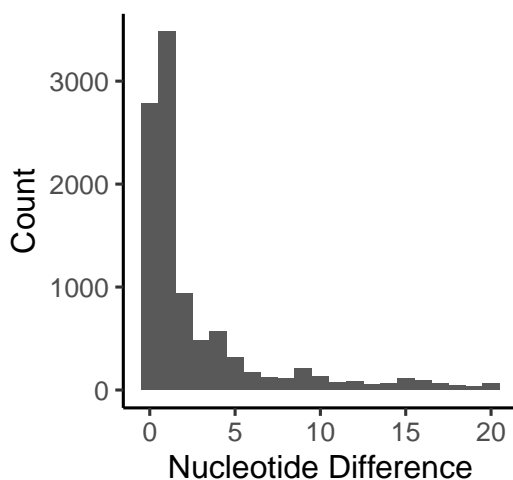
IGHV4-30-2*04

4 sequences assigned
No exact matches.



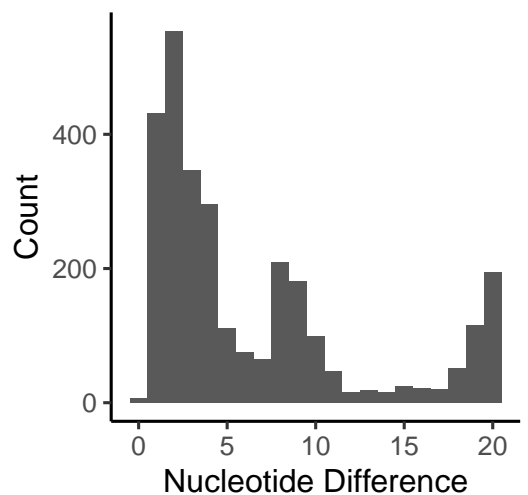
IGHV4-34*01_02

11206 sequences assigned
2785 (24.9%) exact matches, in which:
1970 unique CDR3
6 unique J



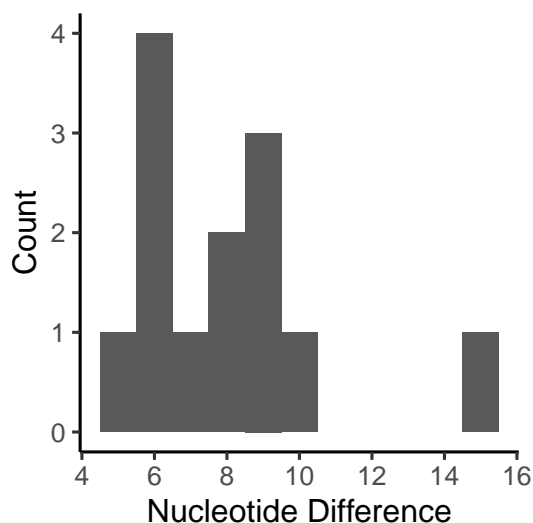
IGHV4-39*07

3351 sequences assigned
7 (0.2%) exact matches, in which:
7 unique CDR3
5 unique J



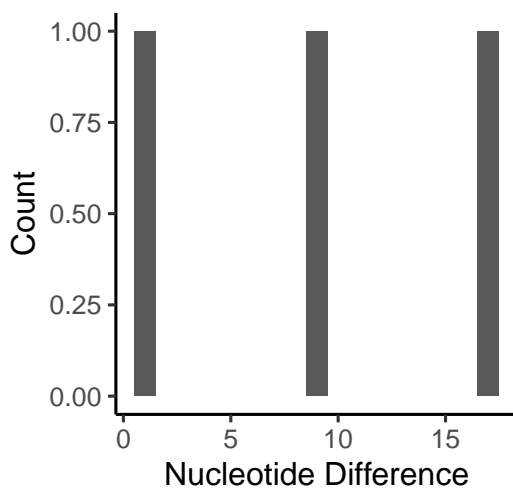
IGHV4-30-4*08

16 sequences assigned
No exact matches.



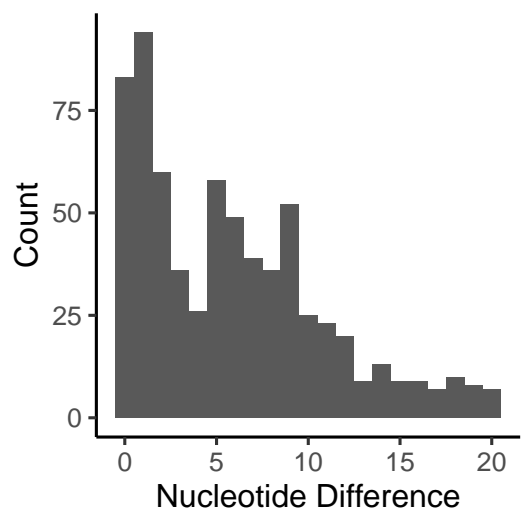
IGHV4-38-2*01

4 sequences assigned
No exact matches.



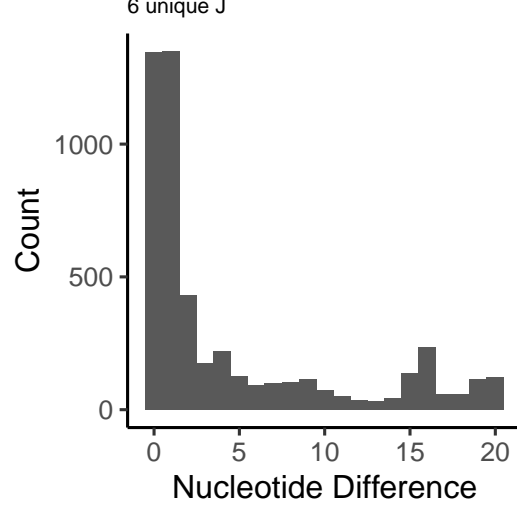
IGHV4-59*12

860 sequences assigned
83 (9.7%) exact matches, in which:
82 unique CDR3
6 unique J



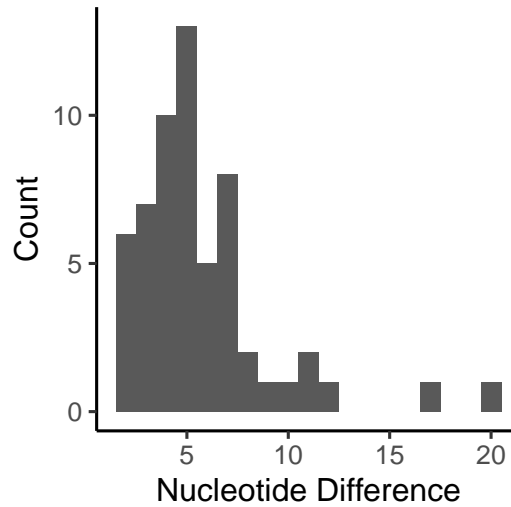
IGHV4–59*13

6664 sequences assigned
1346 (20.2%) exact matches, in which:
1136 unique CDR3
6 unique J



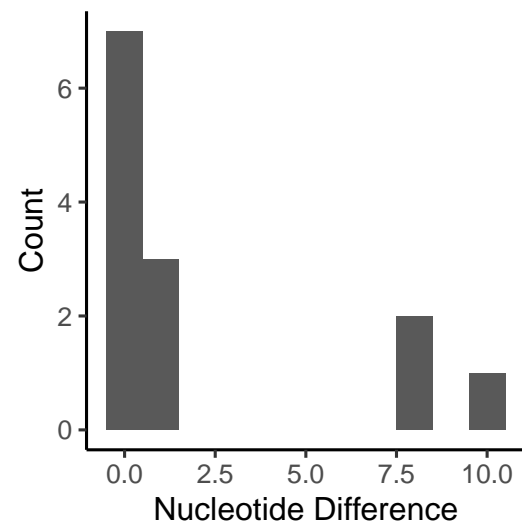
IGHV4/OR15–8*01

68 sequences assigned
No exact matches.



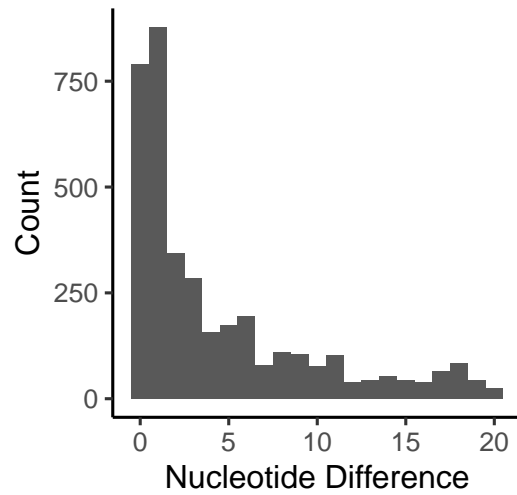
IGHV5–51*06

14 sequences assigned
7 (50%) exact matches, in which:
7 unique CDR3
3 unique J



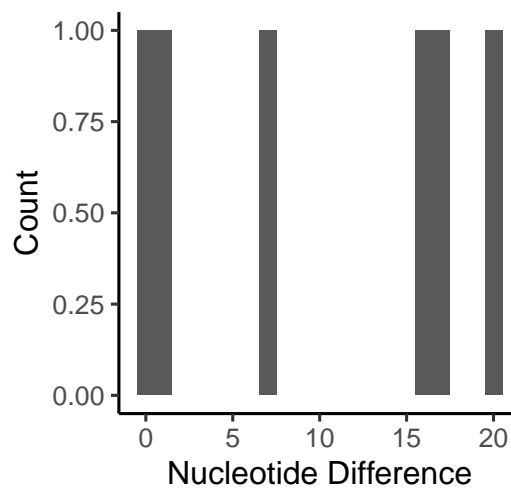
IGHV4–61*01

4958 sequences assigned
789 (15.9%) exact matches, in which:
679 unique CDR3
6 unique J



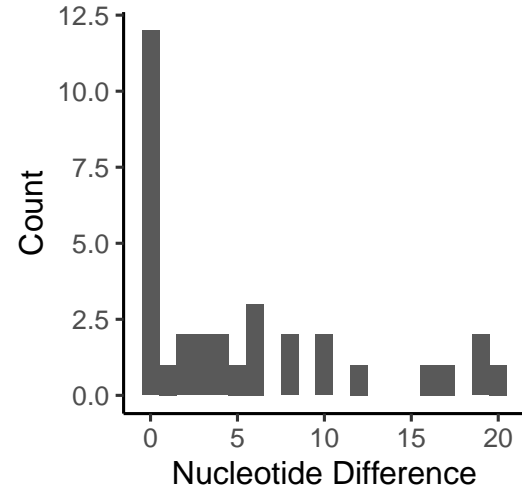
IGHV5–10–1*01_03

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



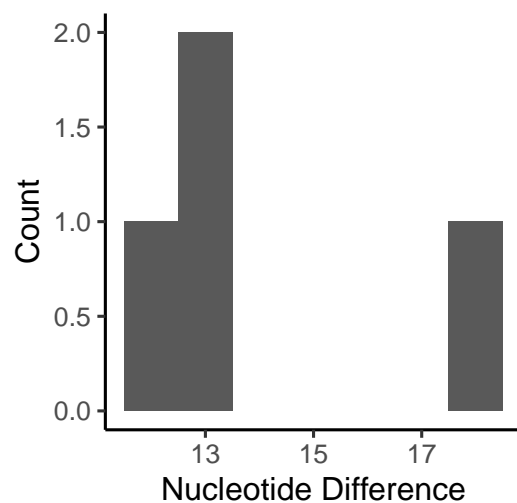
IGHV5–51*07

35 sequences assigned
12 (34.3%) exact matches, in which:
11 unique CDR3
3 unique J



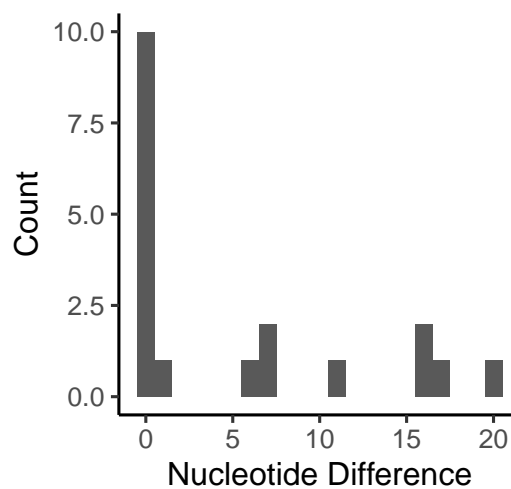
IGHV1/OR15–2*02_03

5 sequences assigned
No exact matches.



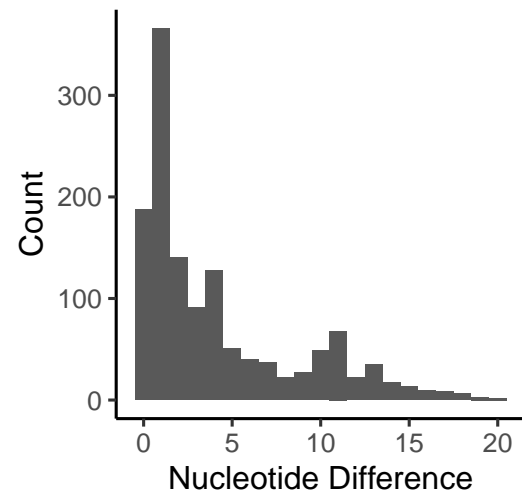
IGHV5–51*04

76 sequences assigned
10 (13.2%) exact matches, in which:
10 unique CDR3
4 unique J



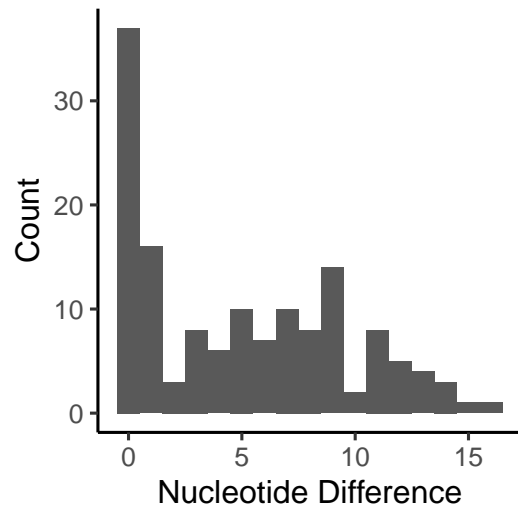
IGHV6–1*01_02

1475 sequences assigned
188 (12.7%) exact matches, in which:
145 unique CDR3
5 unique J



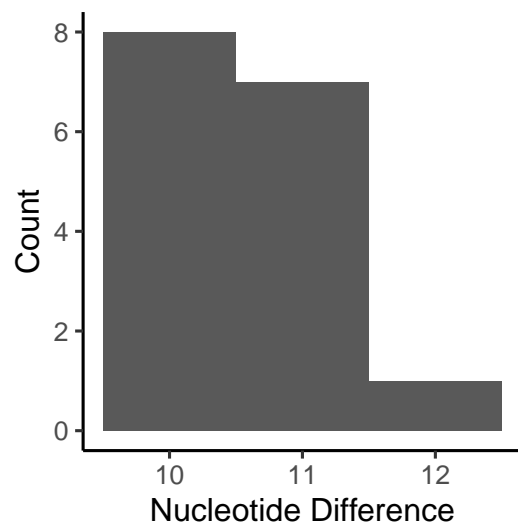
IGHV6-1*01_02_A315G

145 sequences assigned
37 (25.5%) exact matches, in which:
37 unique CDR3
5 unique J



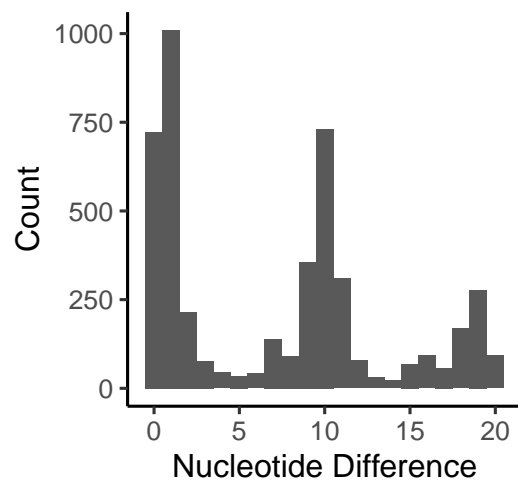
IGHV3/OR16-9*01

16 sequences assigned
No exact matches.



IGHV7-4-1*02

5165 sequences assigned
723 (14%) exact matches, in which:
586 unique CDR3
6 unique J



IGHV6-1*01_02_A315G

