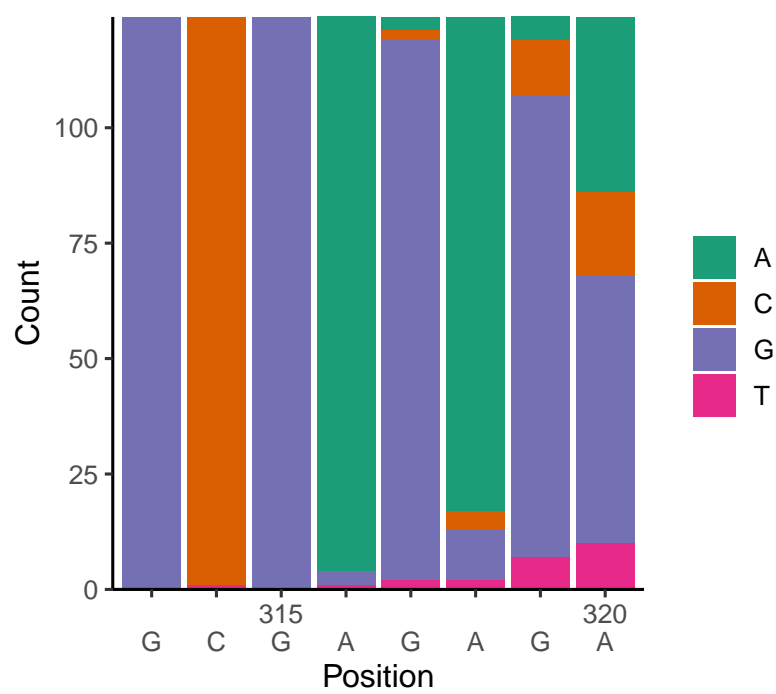
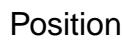


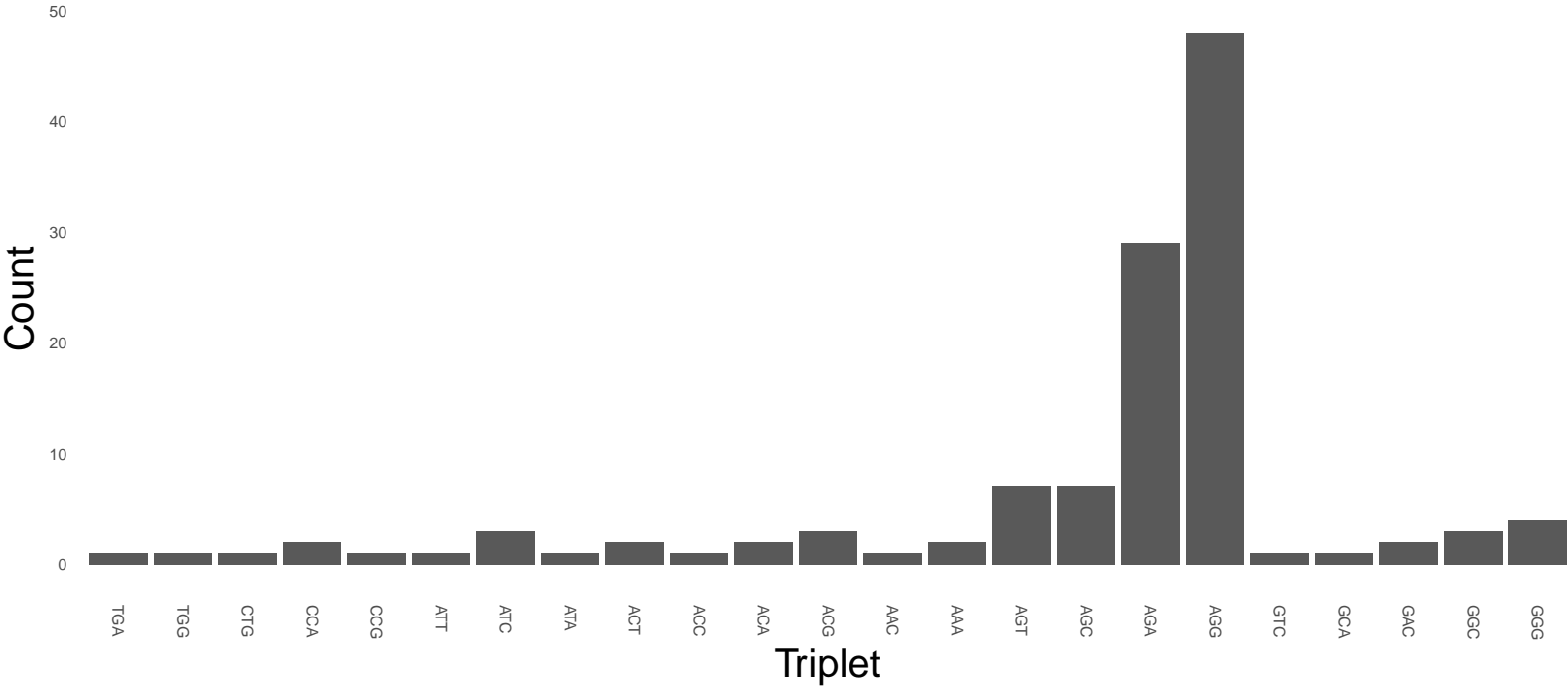
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

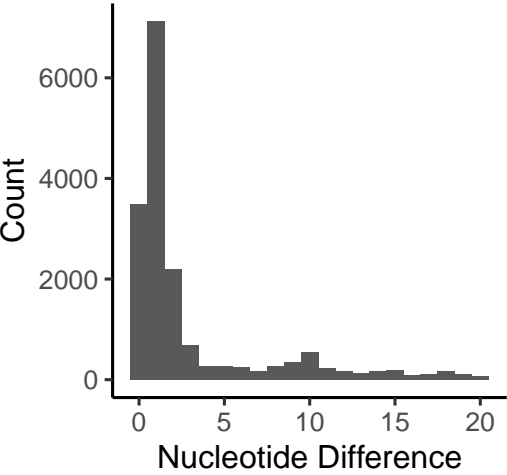


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



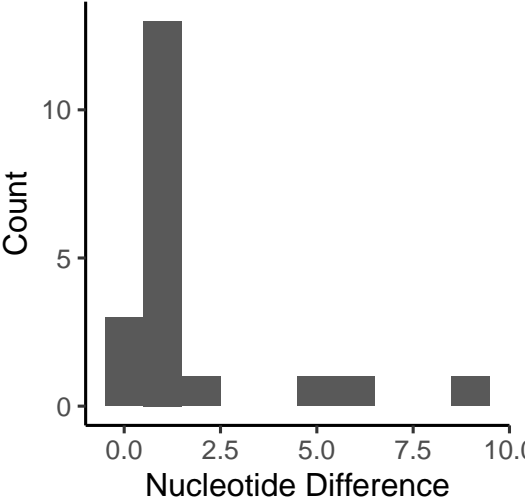
IGHV1-2*02

17112 sequences assigned
3488 (20.4%) exact matches, in which:
2328 unique CDR3
6 unique J



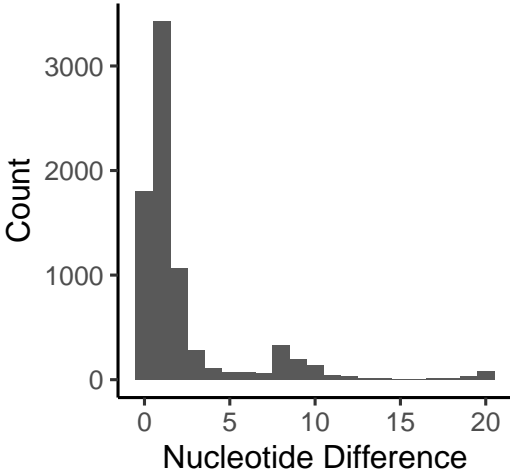
IGHV1-8*01

21 sequences assigned
3 (14.3%) exact matches, in which:
3 unique CDR3
1 unique J



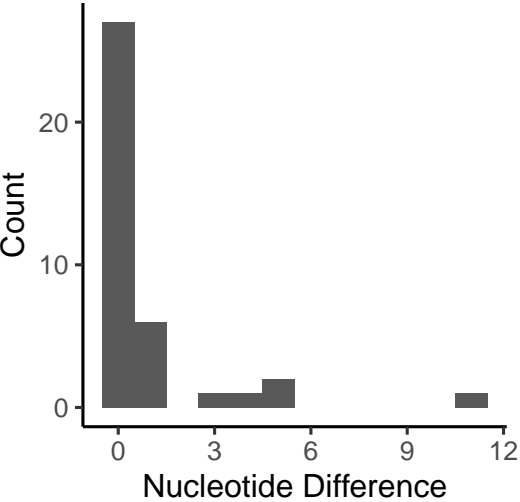
IGHV1-18*04

7857 sequences assigned
1799 (22.9%) exact matches, in which:
1260 unique CDR3
6 unique J



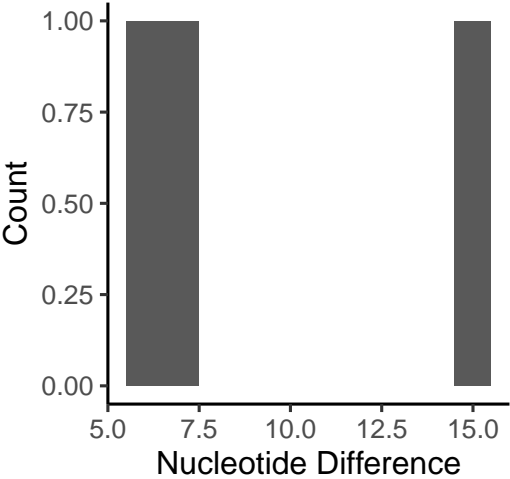
IGHV1-3*02

40 sequences assigned
27 (67.5%) exact matches, in which:
25 unique CDR3
4 unique J



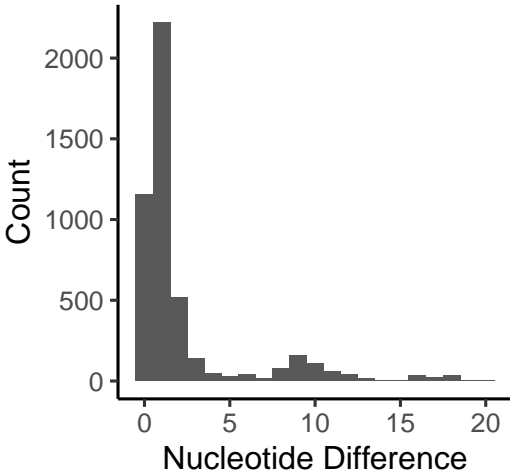
IGHV1-8*02

3 sequences assigned
No exact matches.



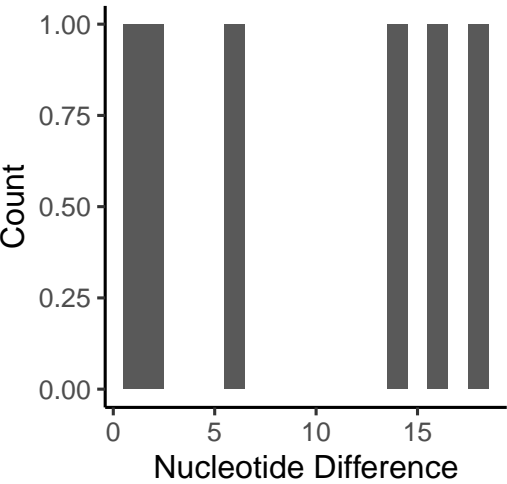
IGHV1-24*01

4729 sequences assigned
1153 (24.4%) exact matches, in which:
793 unique CDR3
6 unique J



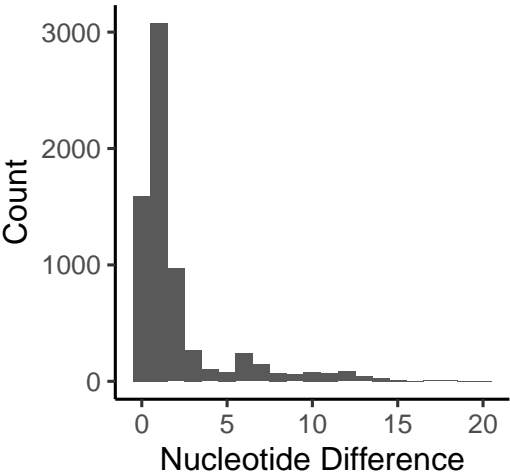
IGHV1-3*01_05

10 sequences assigned
No exact matches.



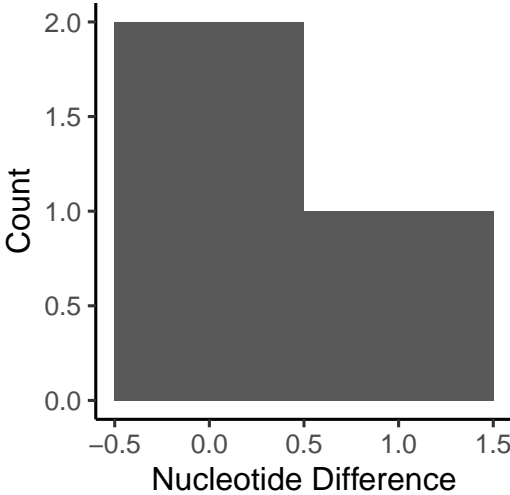
IGHV1-18*01

6989 sequences assigned
1590 (22.8%) exact matches, in which:
1164 unique CDR3
6 unique J



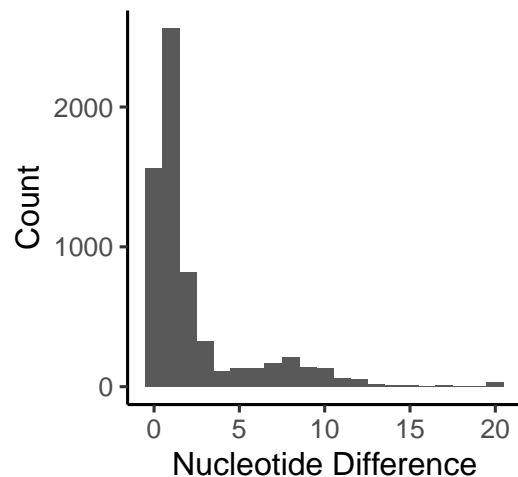
IGHV1-45*02

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



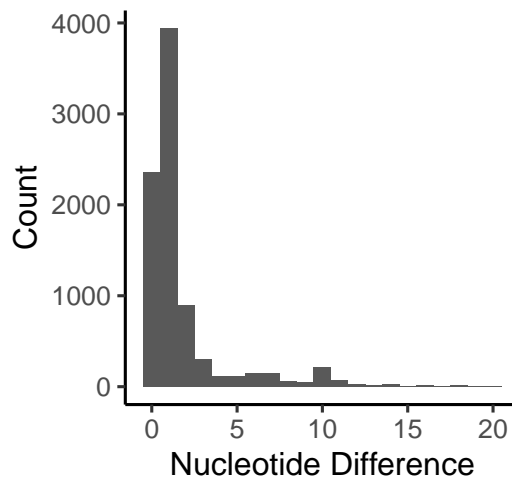
IGHV1-46*01

6675 sequences assigned
1564 (23.4%) exact matches, in which:
1150 unique CDR3
6 unique J



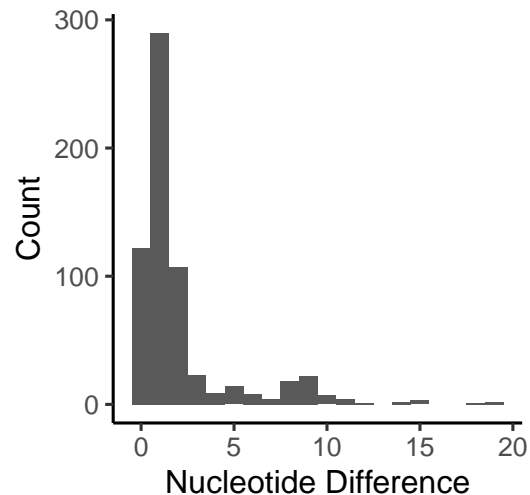
IGHV1-69*01_12_13

8624 sequences assigned
2359 (27.4%) exact matches, in which:
1731 unique CDR3
6 unique J



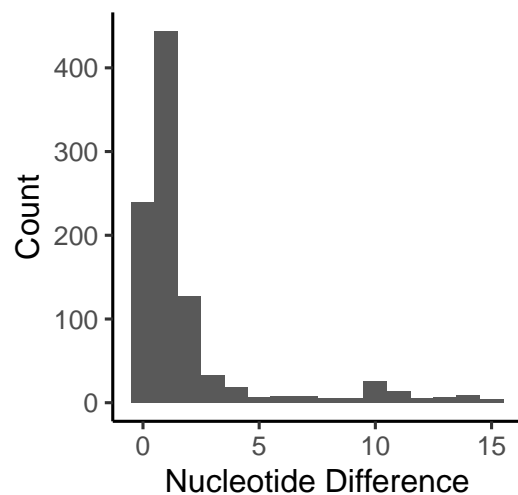
IGHV2-5*02

638 sequences assigned
122 (19.1%) exact matches, in which:
90 unique CDR3
5 unique J



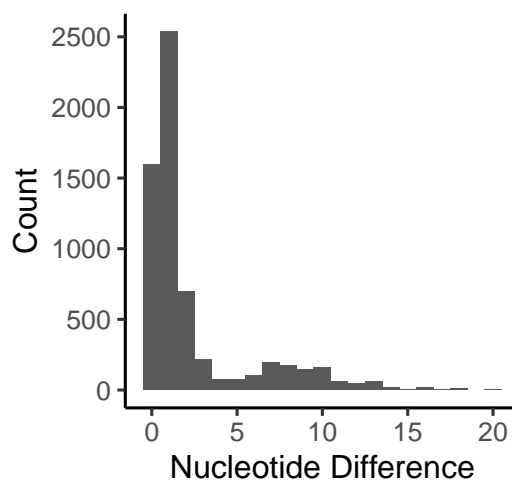
IGHV1-58*01_03

966 sequences assigned
240 (24.8%) exact matches, in which:
172 unique CDR3
5 unique J



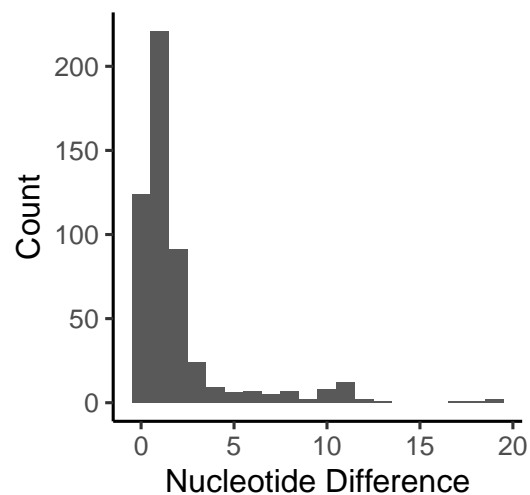
IGHV1-69*06_14

6213 sequences assigned
1598 (25.7%) exact matches, in which:
1184 unique CDR3
6 unique J



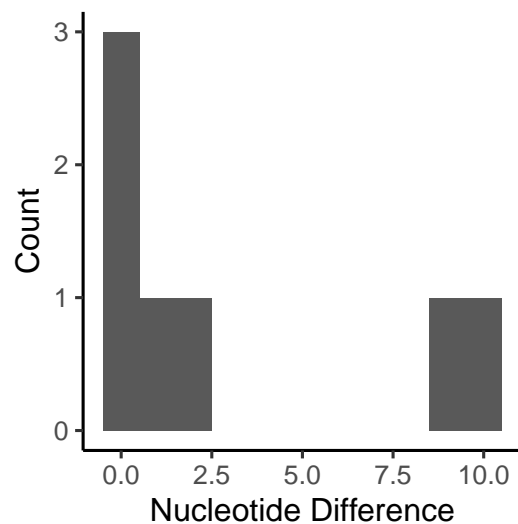
IGHV2-26*01

524 sequences assigned
124 (23.7%) exact matches, in which:
88 unique CDR3
5 unique J



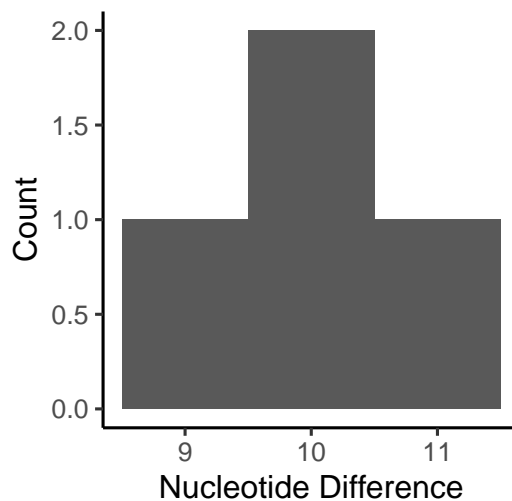
IGHV1-69-2*01

7 sequences assigned
3 (42.9%) exact matches, in which:
3 unique CDR3
3 unique J



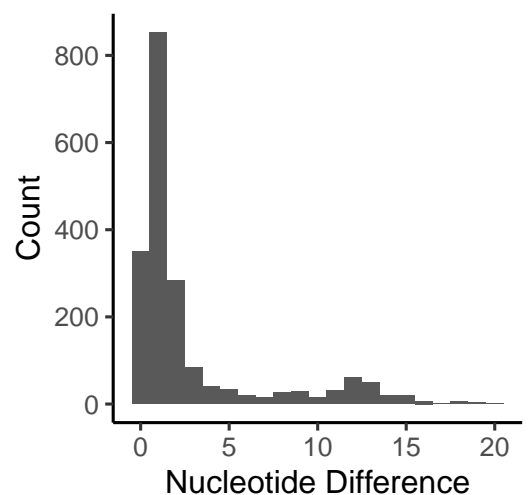
IGHV1-NL1*01

4 sequences assigned
No exact matches.



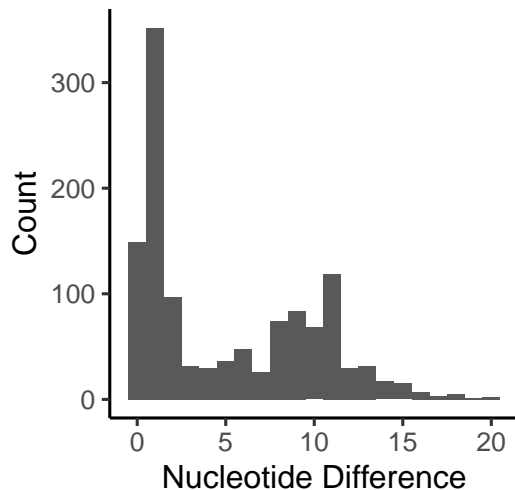
IGHV2-70*01

1990 sequences assigned
350 (17.6%) exact matches, in which:
200 unique CDR3
5 unique J



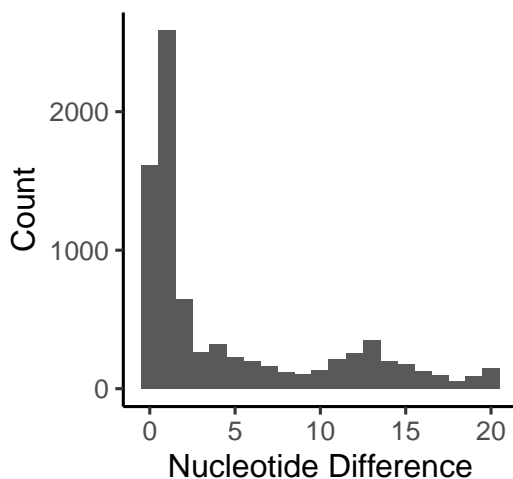
IGHV2–70*04

1232 sequences assigned
149 (12.1%) exact matches, in which:
93 unique CDR3
5 unique J



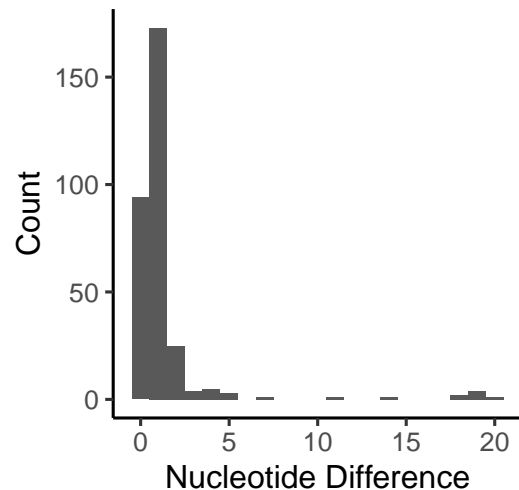
IGHV3–7*03

8664 sequences assigned
1617 (18.7%) exact matches, in which:
1025 unique CDR3
6 unique J



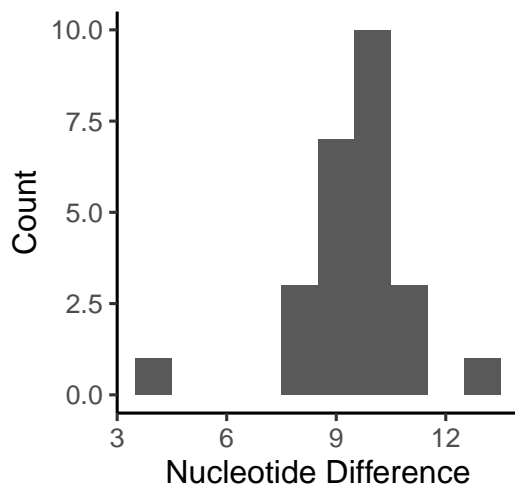
IGHV3–13*05

326 sequences assigned
94 (28.8%) exact matches, in which:
48 unique CDR3
4 unique J



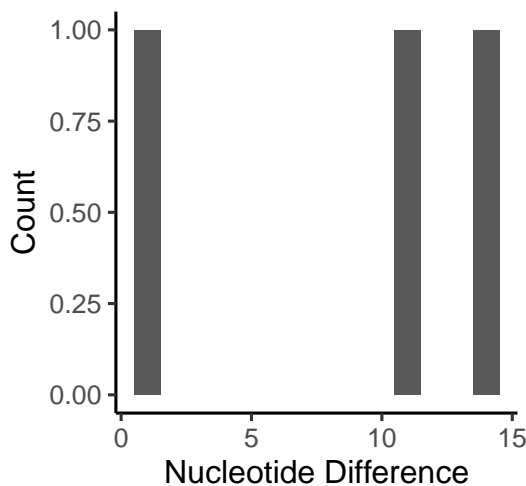
IGHV2–70D*14

25 sequences assigned
No exact matches.



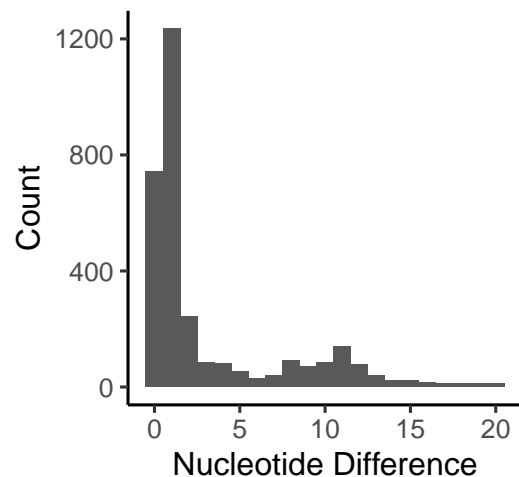
IGHV3–9*01

6 sequences assigned
No exact matches.



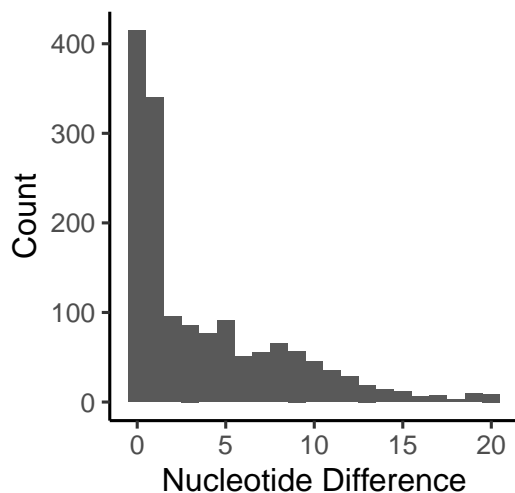
IGHV3–15*07

3212 sequences assigned
744 (23.2%) exact matches, in which:
405 unique CDR3
6 unique J



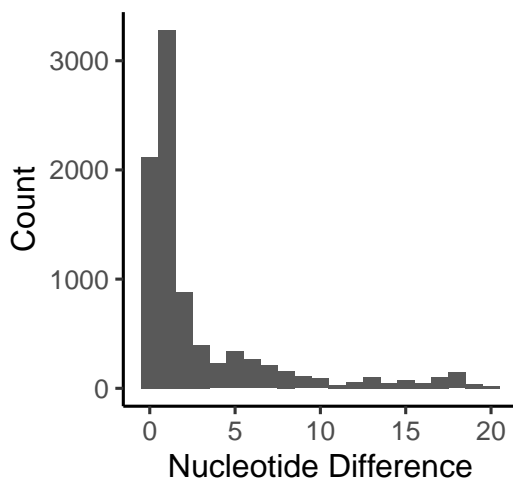
IGHV3–7*01

1532 sequences assigned
415 (27.1%) exact matches, in which:
336 unique CDR3
6 unique J



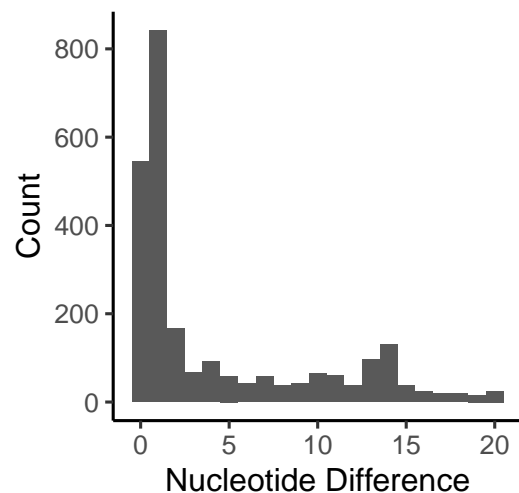
IGHV3–11*06

8795 sequences assigned
2117 (24.1%) exact matches, in which:
1249 unique CDR3
6 unique J



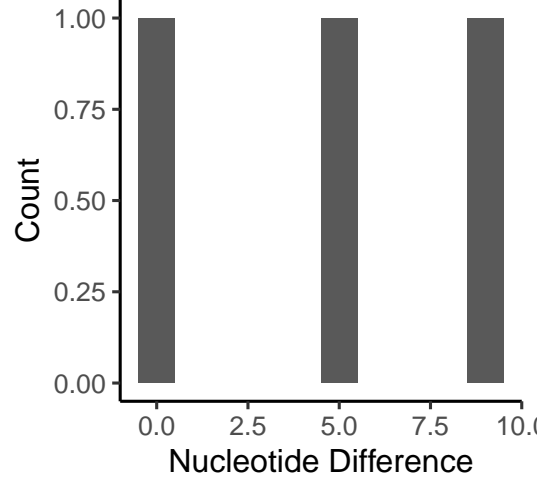
IGHV3–15*01_02

2624 sequences assigned
545 (20.8%) exact matches, in which:
300 unique CDR3
6 unique J



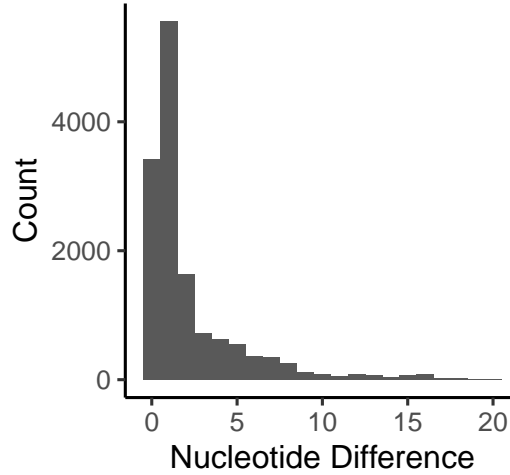
IGHV3-19*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



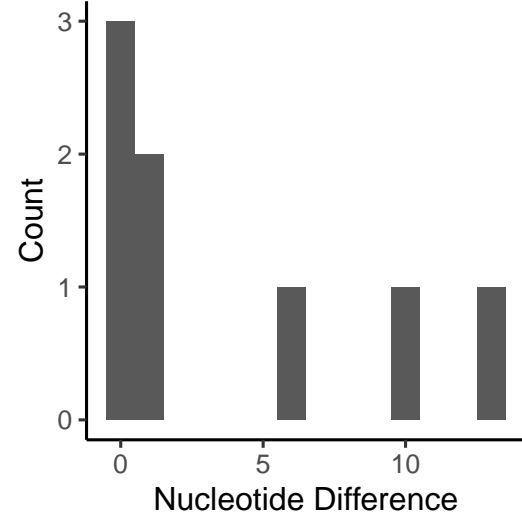
IGHV3-21*01_02

14326 sequences assigned
3417 (23.9%) exact matches, in which:
1938 unique CDR3
6 unique J



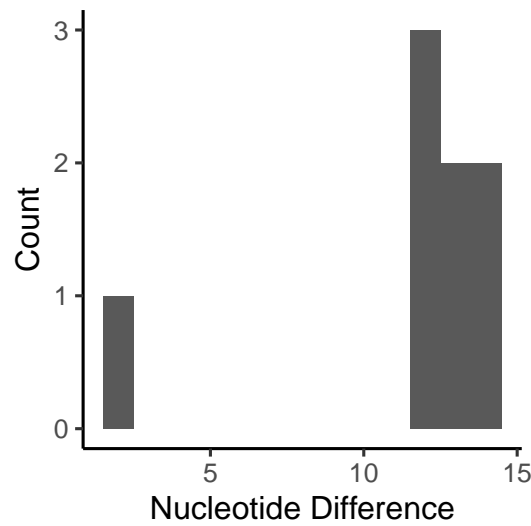
IGHV3-30-3*01

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



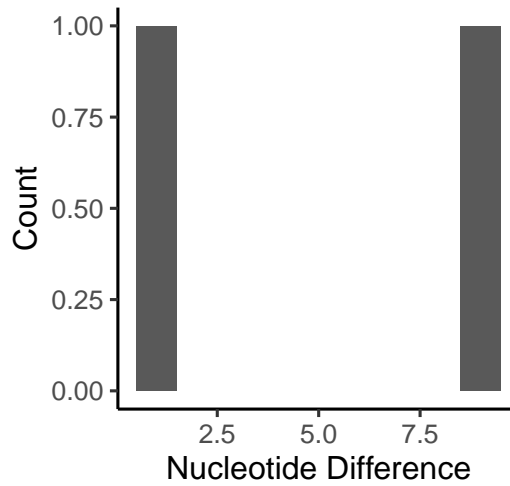
IGHV3-20*03_04

9 sequences assigned
No exact matches.



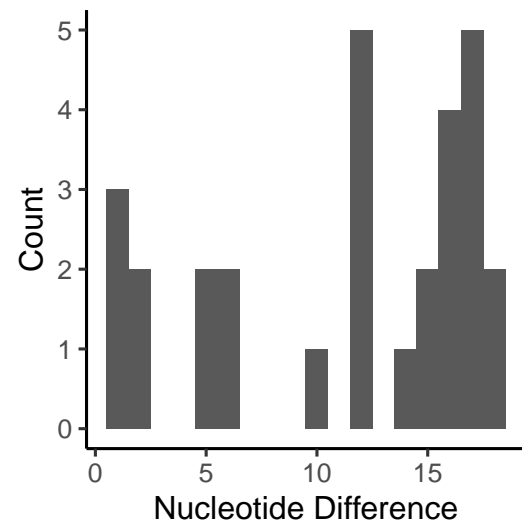
IGHV3-22*01_02

2 sequences assigned
No exact matches.



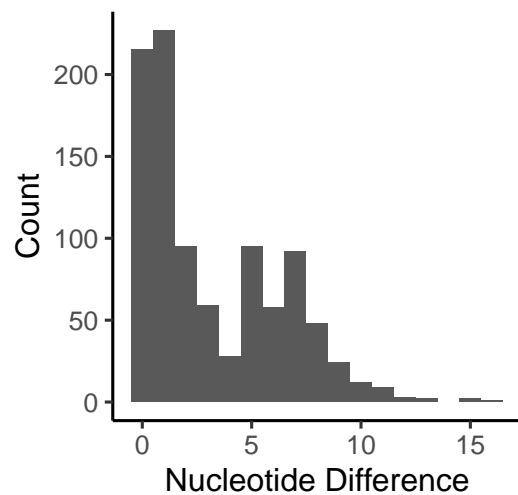
IGHV3-30-3*02

31 sequences assigned
No exact matches.



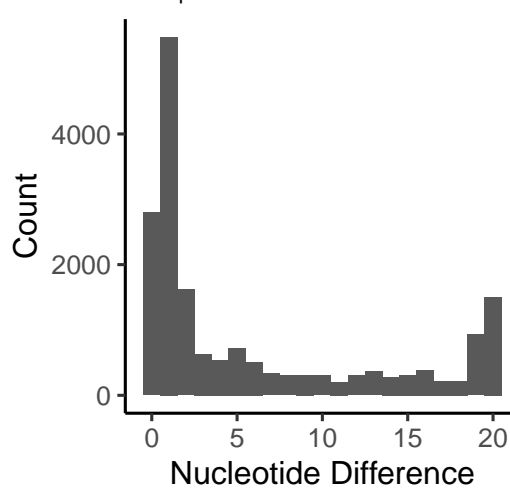
IGHV3-21*04

972 sequences assigned
215 (22.1%) exact matches, in which:
169 unique CDR3
6 unique J



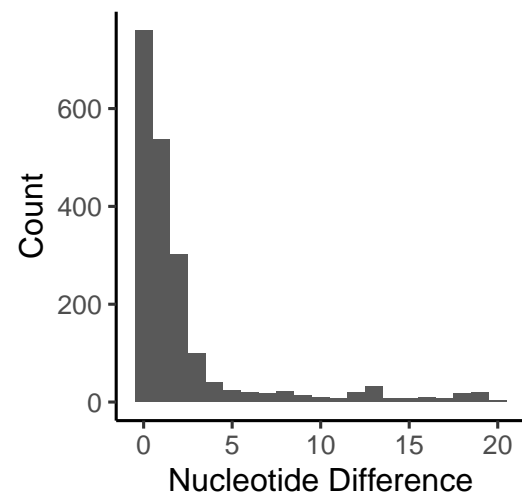
IGHV3-23*01_04

20439 sequences assigned
2796 (13.7%) exact matches, in which:
1552 unique CDR3
6 unique J



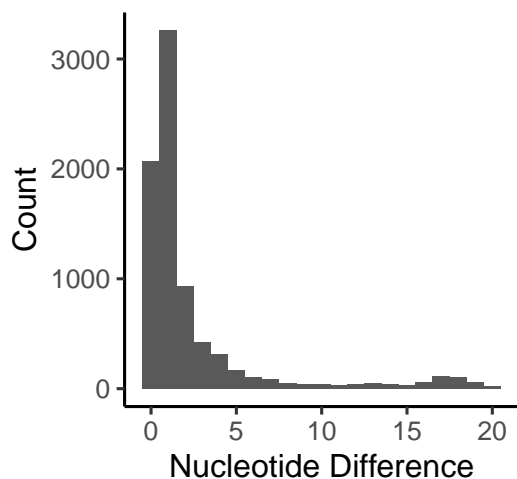
IGHV3-30*03

1995 sequences assigned
760 (38.1%) exact matches, in which:
572 unique CDR3
6 unique J



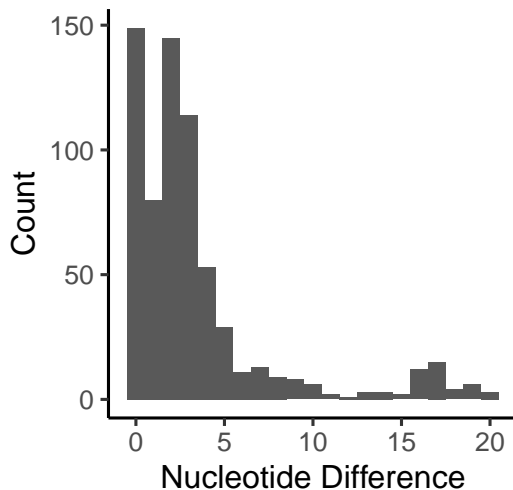
IGHV3-30*04

8242 sequences assigned
2074 (25.2%) exact matches, in which:
1288 unique CDR3
6 unique J



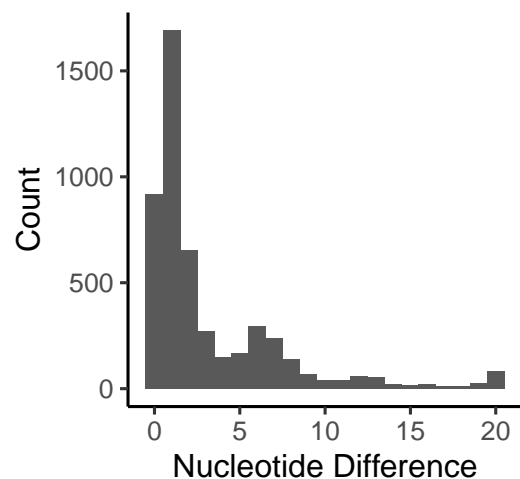
IGHV3-33*06

673 sequences assigned
149 (22.1%) exact matches, in which:
126 unique CDR3
6 unique J



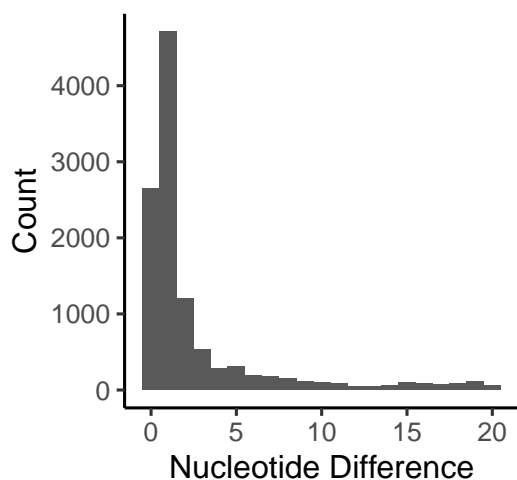
IGHV3-48*03

8009 sequences assigned
919 (11.5%) exact matches, in which:
516 unique CDR3
6 unique J



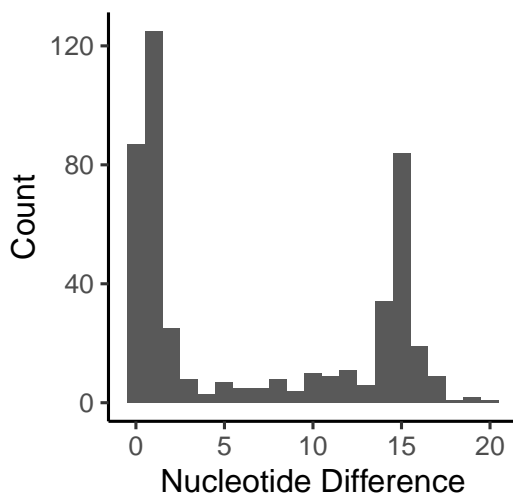
IGHV3-30*18

11241 sequences assigned
2647 (23.5%) exact matches, in which:
1403 unique CDR3
6 unique J



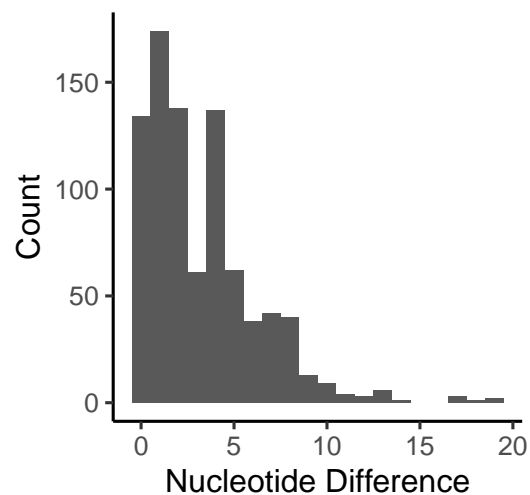
IGHV3-43*01

468 sequences assigned
87 (18.6%) exact matches, in which:
48 unique CDR3
3 unique J



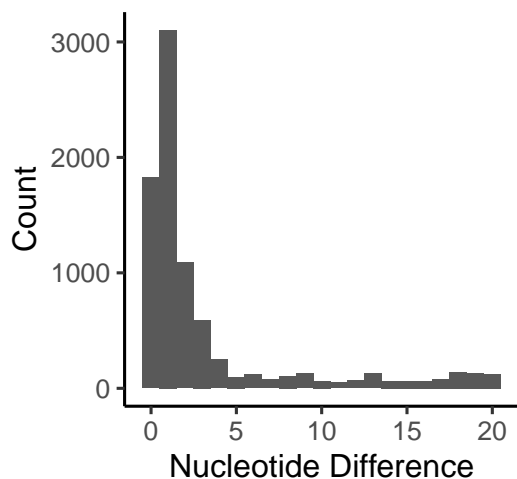
IGHV3-48*04

875 sequences assigned
134 (15.3%) exact matches, in which:
117 unique CDR3
5 unique J



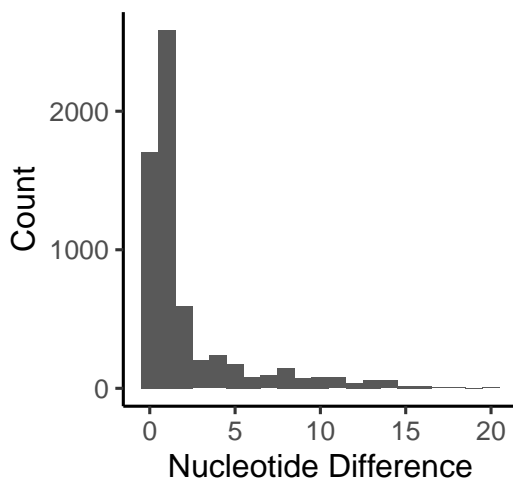
IGHV3-33*01

8680 sequences assigned
1825 (21%) exact matches, in which:
1113 unique CDR3
6 unique J



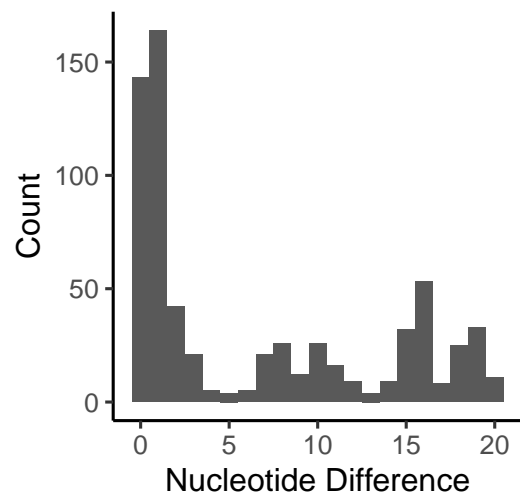
IGHV3-48*01

6305 sequences assigned
1708 (27.1%) exact matches, in which:
1016 unique CDR3
6 unique J



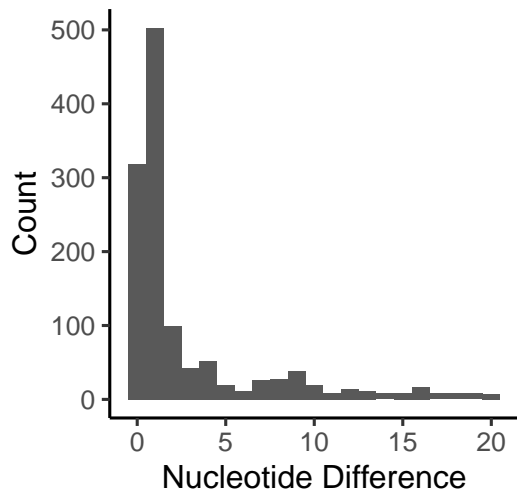
IGHV3-49*04

924 sequences assigned
143 (15.5%) exact matches, in which:
87 unique CDR3
5 unique J



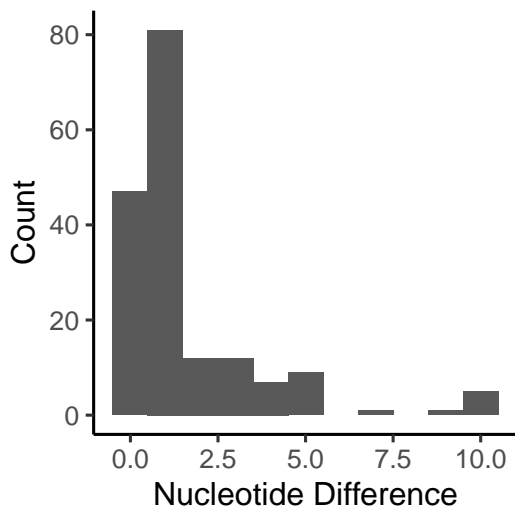
IGHV3-49*03_05

1292 sequences assigned
318 (24.6%) exact matches, in which:
176 unique CDR3
4 unique J



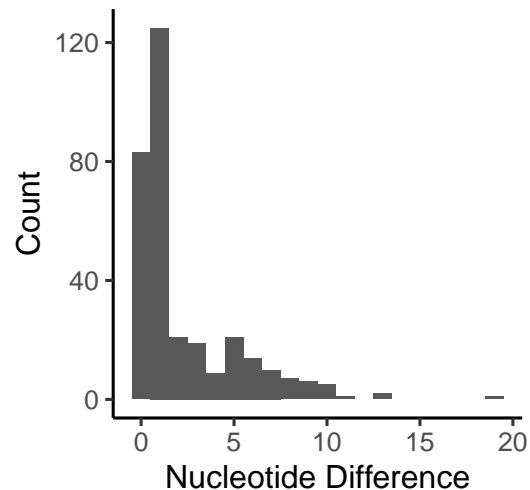
IGHV3-64*02_07

177 sequences assigned
47 (26.6%) exact matches, in which:
25 unique CDR3
3 unique J



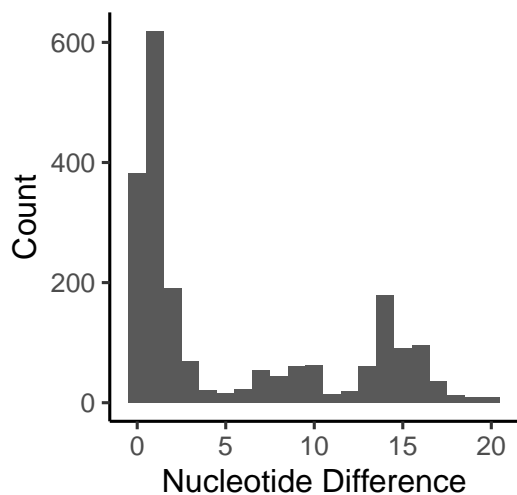
IGHV3-69-1*01

326 sequences assigned
83 (25.5%) exact matches, in which:
63 unique CDR3
5 unique J



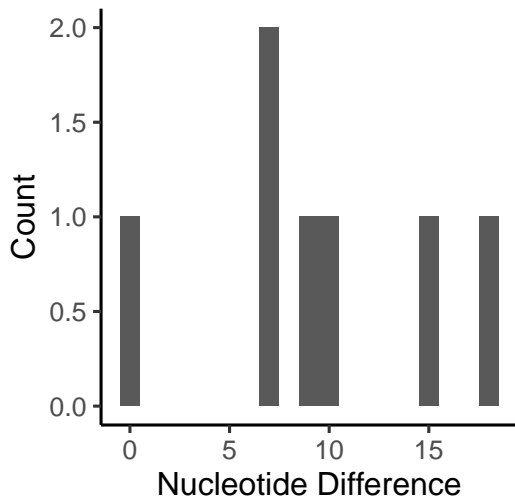
IGHV3-53*01_02

2146 sequences assigned
382 (17.8%) exact matches, in which:
240 unique CDR3
6 unique J



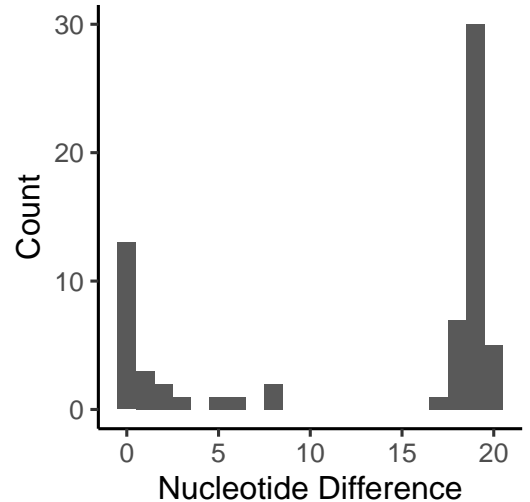
IGHV3-66*01

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



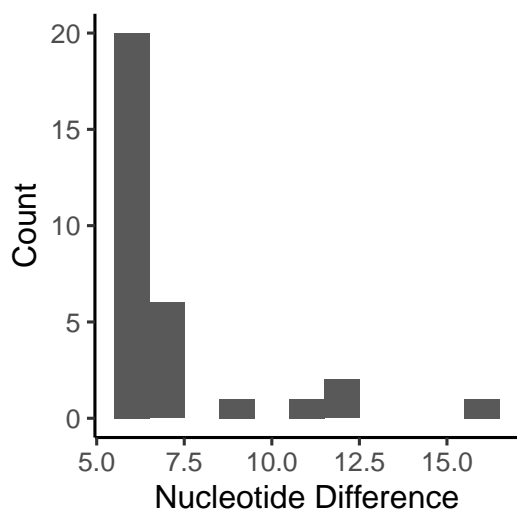
IGHV3-69-1*02

69 sequences assigned
13 (18.8%) exact matches, in which:
13 unique CDR3
4 unique J



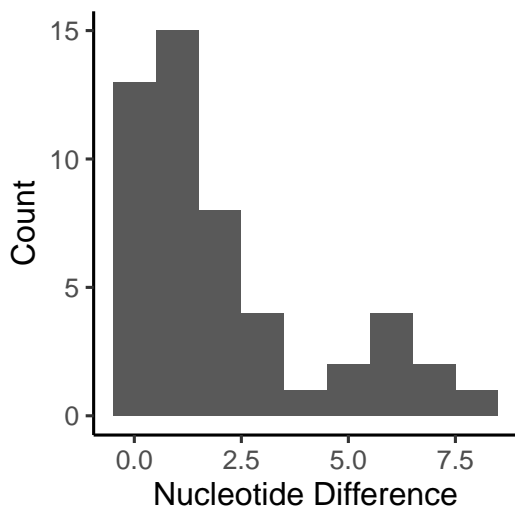
IGHV3-64*04

31 sequences assigned
No exact matches.



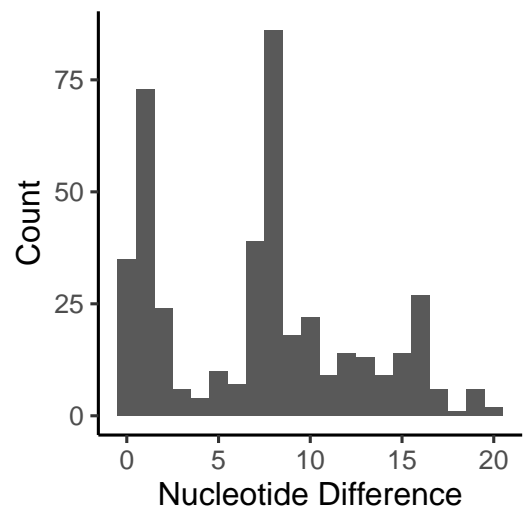
IGHV3-66*03

53 sequences assigned
13 (24.5%) exact matches, in which:
12 unique CDR3
3 unique J



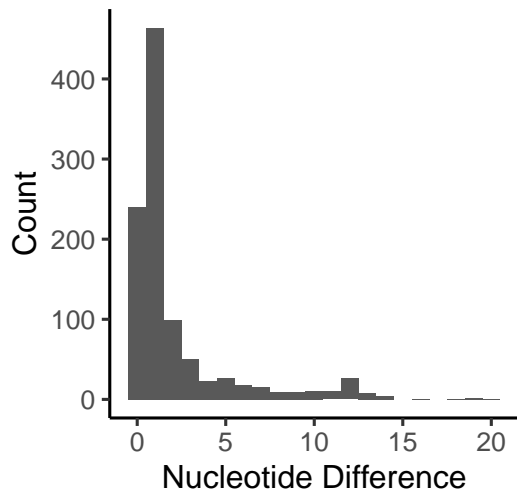
IGHV3-72*01

696 sequences assigned
35 (5%) exact matches, in which:
18 unique CDR3
3 unique J



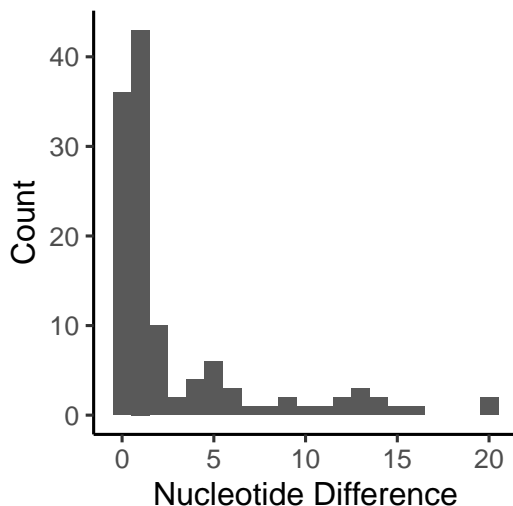
IGHV3-73*01_02

1020 sequences assigned
240 (23.5%) exact matches, in which:
125 unique CDR3
5 unique J



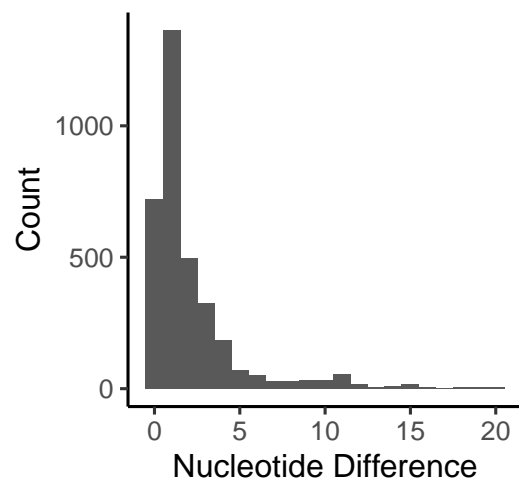
IGHV3-43D*04

148 sequences assigned
36 (24.3%) exact matches, in which:
24 unique CDR3
2 unique J



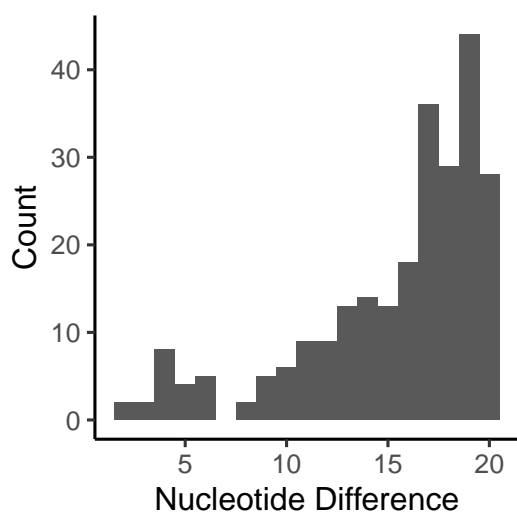
IGHV4-4*07

3564 sequences assigned
721 (20.2%) exact matches, in which:
504 unique CDR3
6 unique J



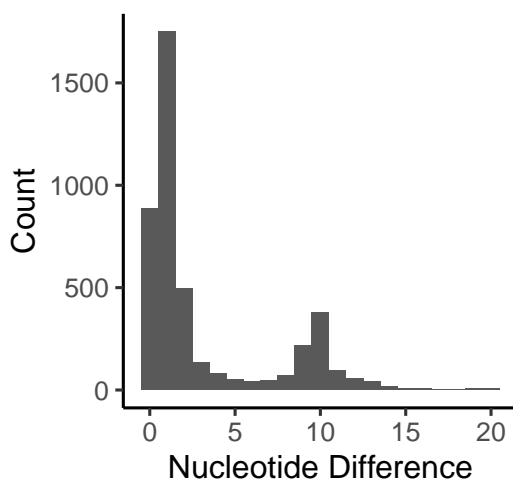
IGHV3-74*03

3218 sequences assigned
No exact matches.



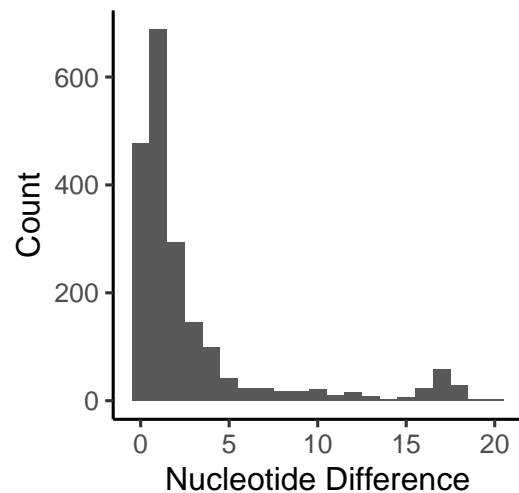
IGHV3-64D*06

4488 sequences assigned
885 (19.7%) exact matches, in which:
441 unique CDR3
6 unique J



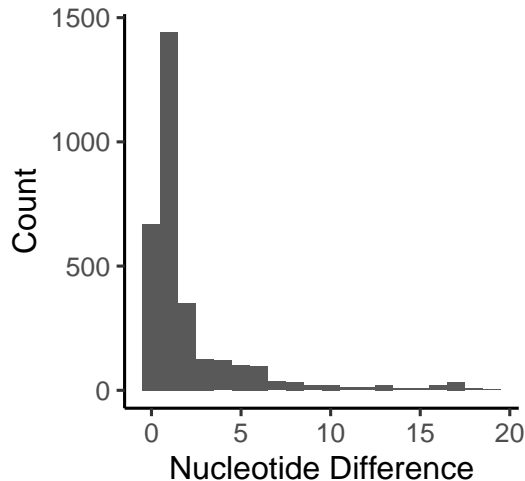
IGHV4-4*02_03

2026 sequences assigned
478 (23.6%) exact matches, in which:
333 unique CDR3
6 unique J



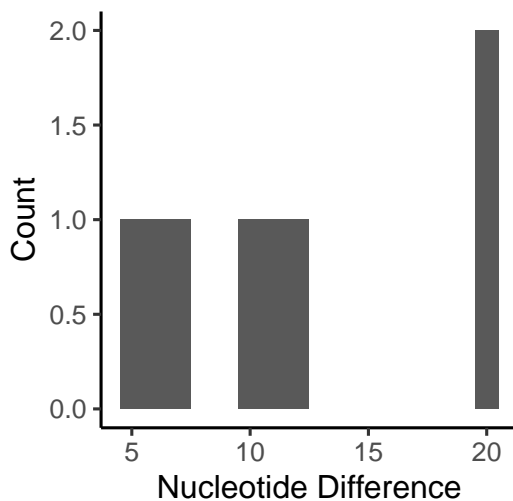
IGHV3-74*01_02

3159 sequences assigned
670 (21.2%) exact matches, in which:
345 unique CDR3
5 unique J



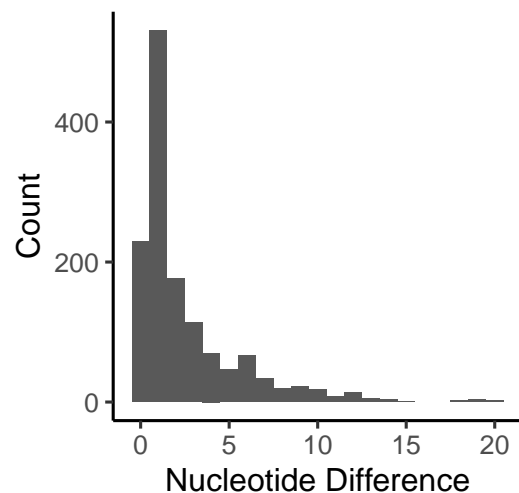
IGHV3-NL1*01

9 sequences assigned
No exact matches.



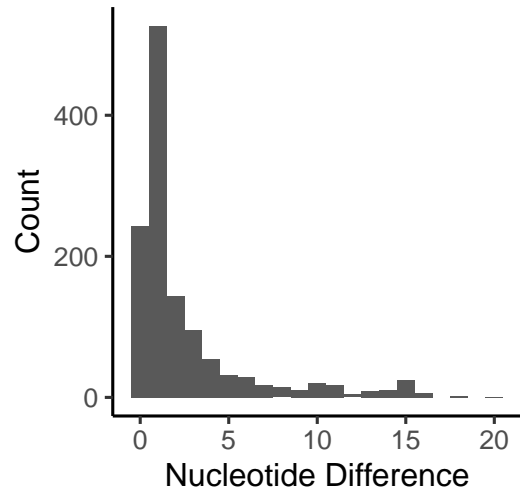
IGHV4-30-2*01

1437 sequences assigned
229 (15.9%) exact matches, in which:
127 unique CDR3
6 unique J



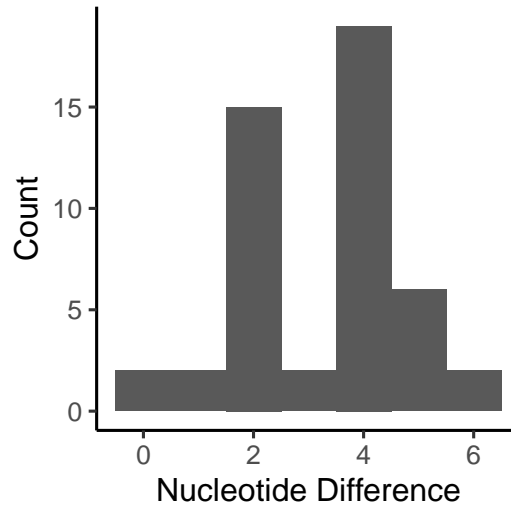
IGHV4-30-4*01

1282 sequences assigned
243 (19%) exact matches, in which:
150 unique CDR3
5 unique J



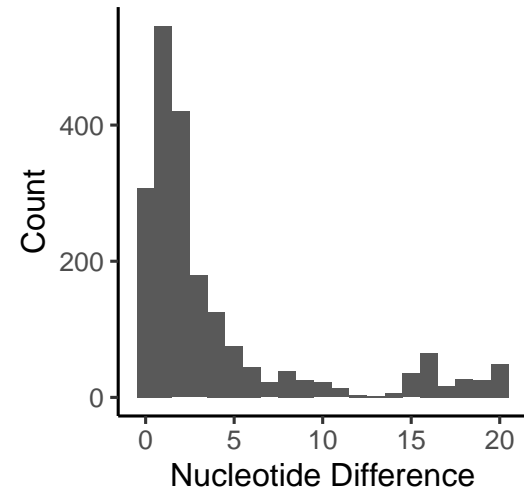
IGHV4-30-2*05

48 sequences assigned
2 (4.2%) exact matches, in which:
2 unique CDR3
2 unique J



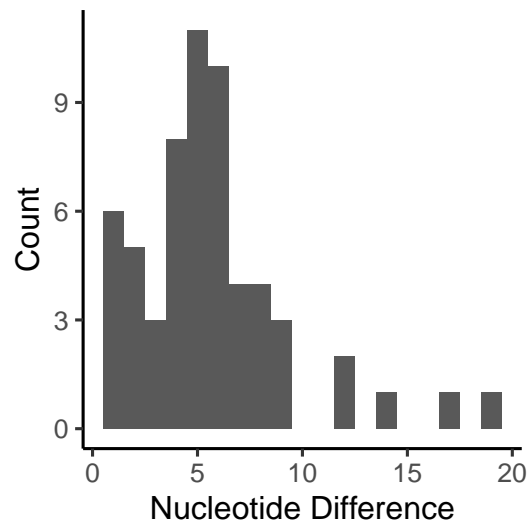
IGHV4-38-2*01

2096 sequences assigned
307 (14.6%) exact matches, in which:
249 unique CDR3
6 unique J



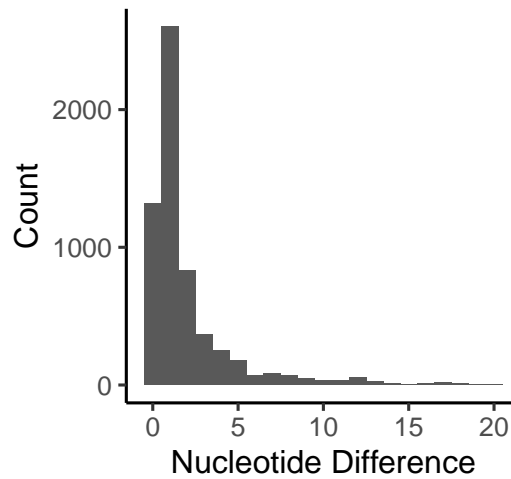
IGHV4-30-2*03

59 sequences assigned
No exact matches.



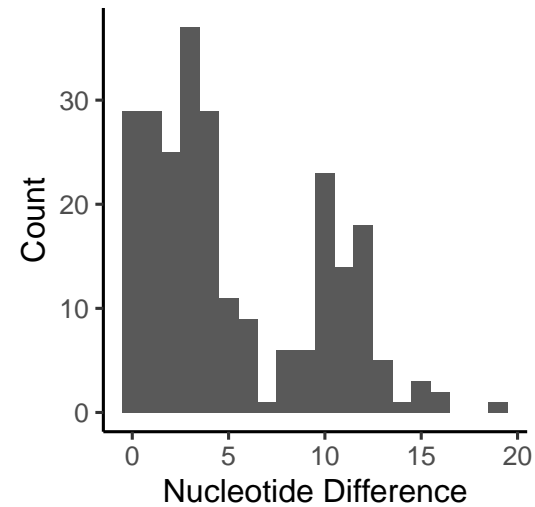
IGHV4-31*02

6069 sequences assigned
1315 (21.7%) exact matches, in which:
895 unique CDR3
6 unique J



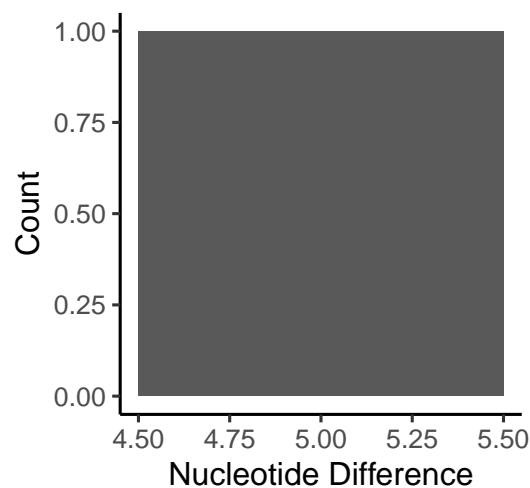
IGHV4-38-2*02

278 sequences assigned
29 (10.4%) exact matches, in which:
23 unique CDR3
6 unique J



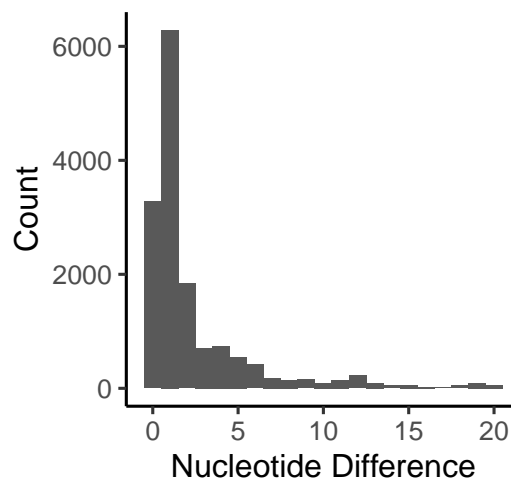
IGHV4-30-2*04

1 sequences assigned
No exact matches.



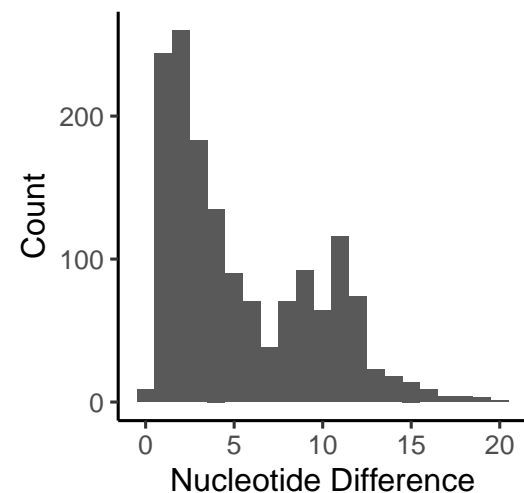
IGHV4-34*01_02

15433 sequences assigned
3275 (21.2%) exact matches, in which:
2108 unique CDR3
6 unique J



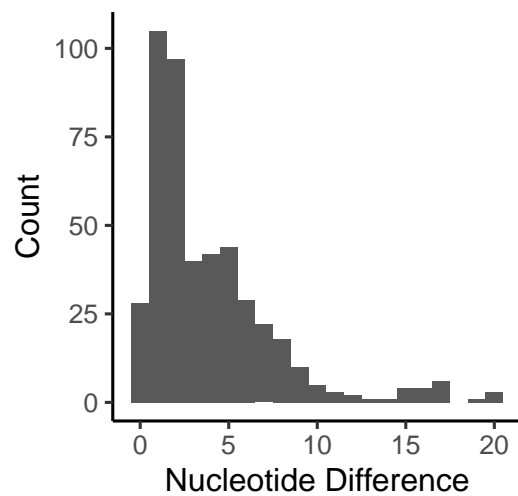
IGHV4-39*07

1533 sequences assigned
9 (0.6%) exact matches, in which:
9 unique CDR3
3 unique J



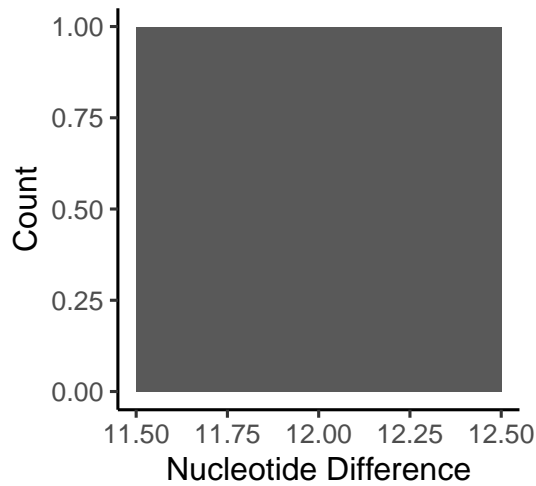
IGHV4–59*08

483 sequences assigned
28 (5.8%) exact matches, in which:
26 unique CDR3
5 unique J



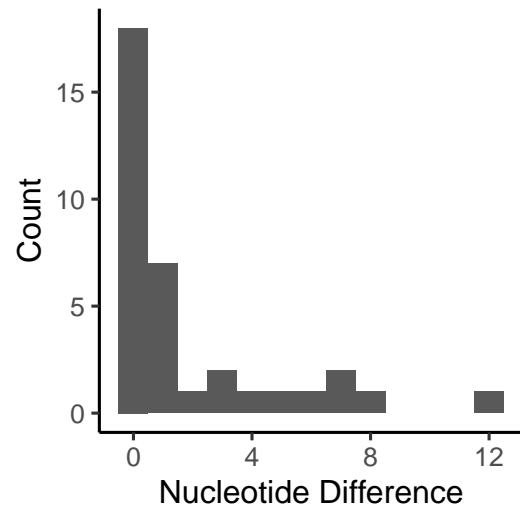
IGHV1/OR15–1*04

1 sequences assigned
No exact matches.



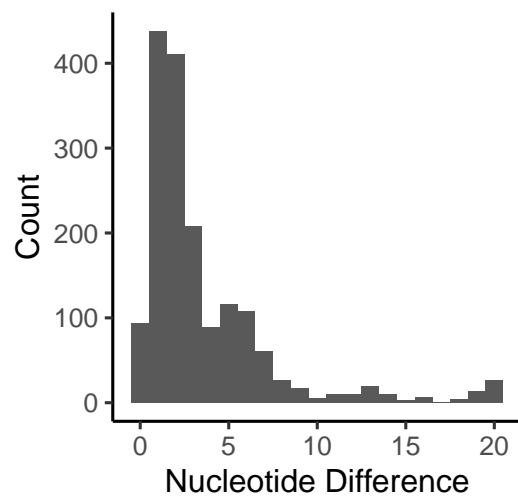
IGHV5–51*04

35 sequences assigned
18 (51.4%) exact matches, in which:
17 unique CDR3
5 unique J



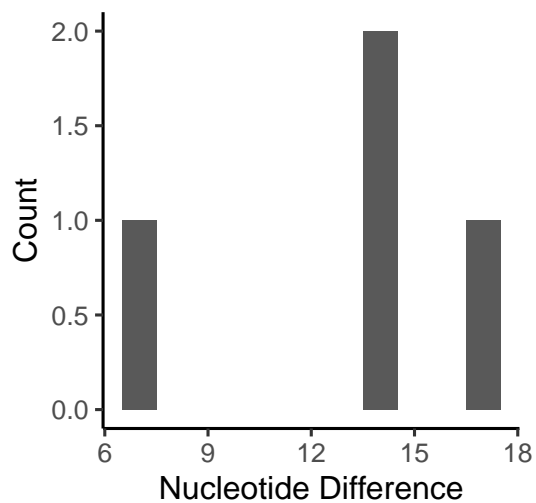
IGHV4–59*12

2426 sequences assigned
94 (3.9%) exact matches, in which:
91 unique CDR3
6 unique J



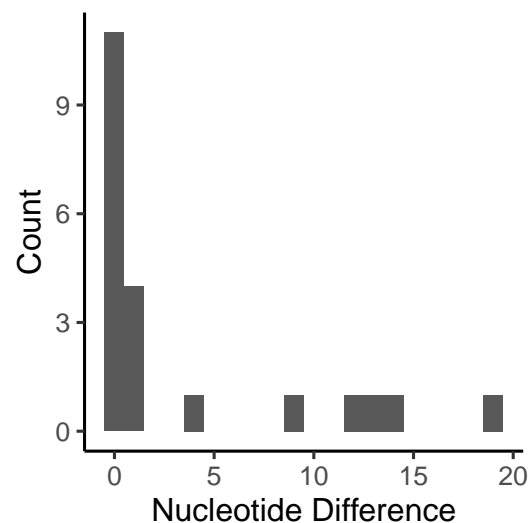
IGHV4/OR15–8*01

4 sequences assigned
No exact matches.



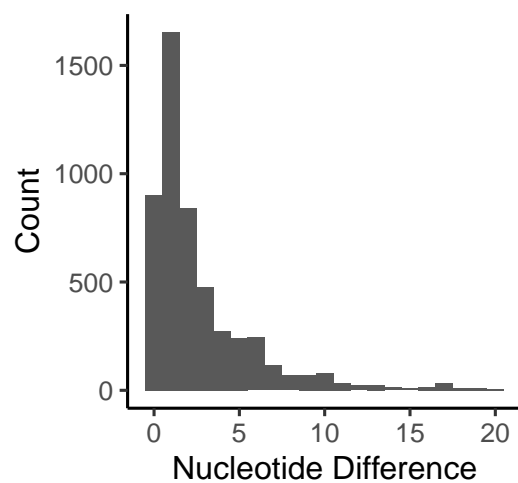
IGHV5–51*06

21 sequences assigned
11 (52.4%) exact matches, in which:
11 unique CDR3
3 unique J



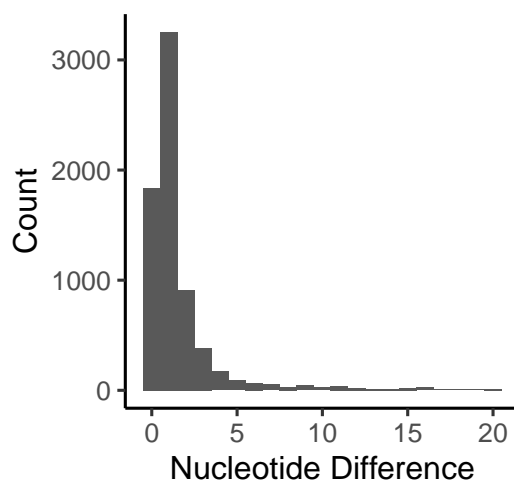
IGHV4–61*01

5250 sequences assigned
901 (17.2%) exact matches, in which:
698 unique CDR3
6 unique J



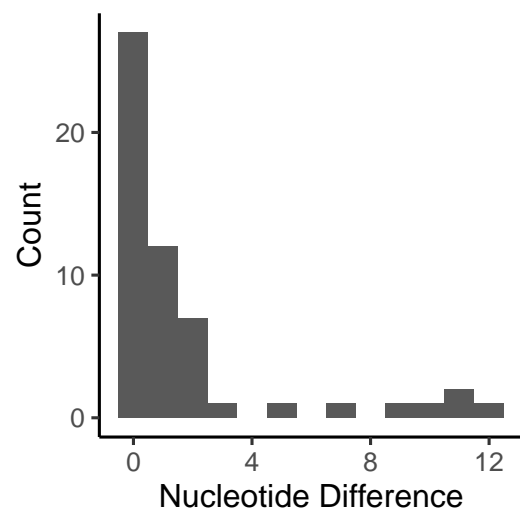
IGHV5–10–1*01_03

7064 sequences assigned
1839 (26%) exact matches, in which:
1024 unique CDR3
6 unique J



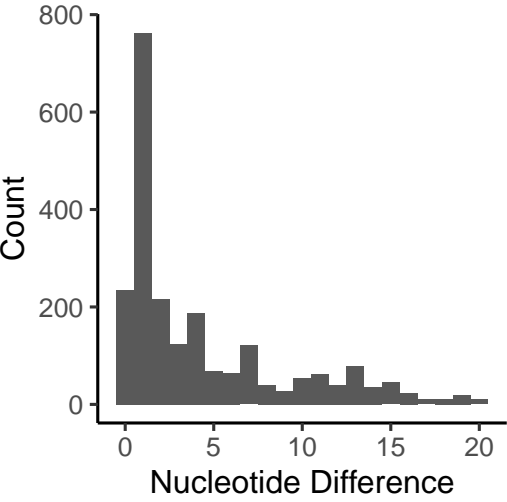
IGHV5–51*07

56 sequences assigned
27 (48.2%) exact matches, in which:
23 unique CDR3
4 unique J



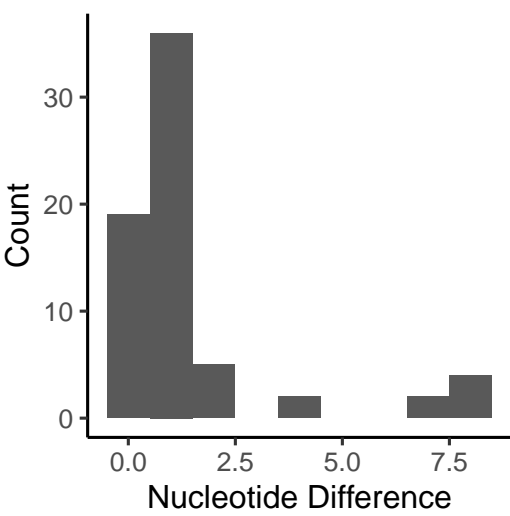
IGHV6-1*01_02

2329 sequences assigned
235 (10.1%) exact matches, in which:
137 unique CDR3
4 unique J



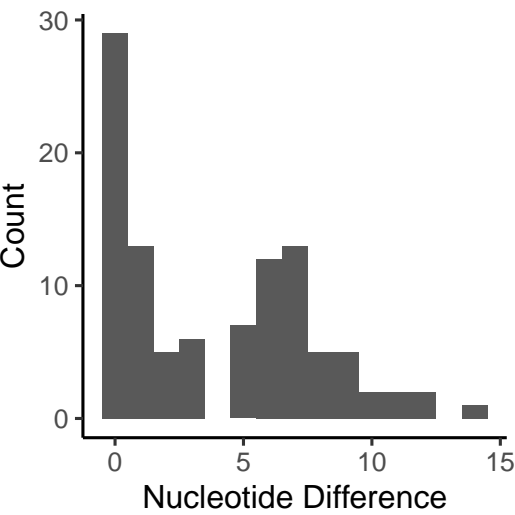
IGHV7-4-1*01

68 sequences assigned
19 (27.9%) exact matches, in which:
16 unique CDR3
4 unique J



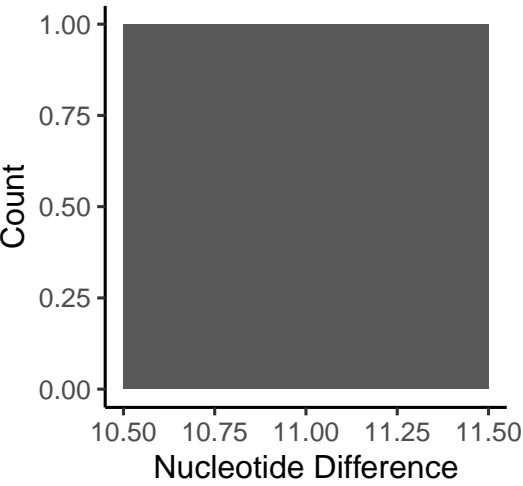
IGHV6-1*01_02_A315G

124 sequences assigned
29 (23.4%) exact matches, in which:
29 unique CDR3
5 unique J



IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G

