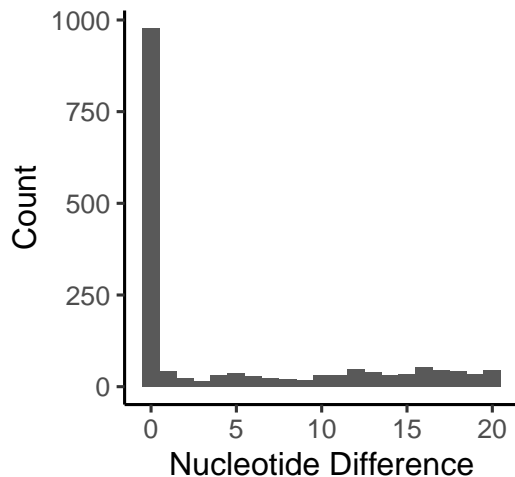


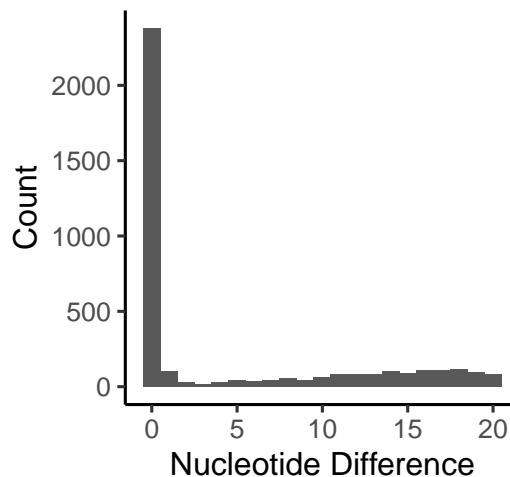
IGHV1-2*04

1885 sequences assigned
977 (51.8%) exact matches, in which:
809 unique CDR3
6 unique J



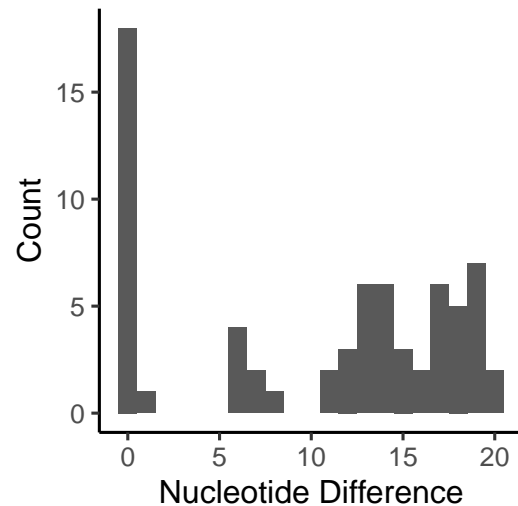
IGHV1-18*01

4581 sequences assigned
2378 (51.9%) exact matches, in which:
1934 unique CDR3
6 unique J



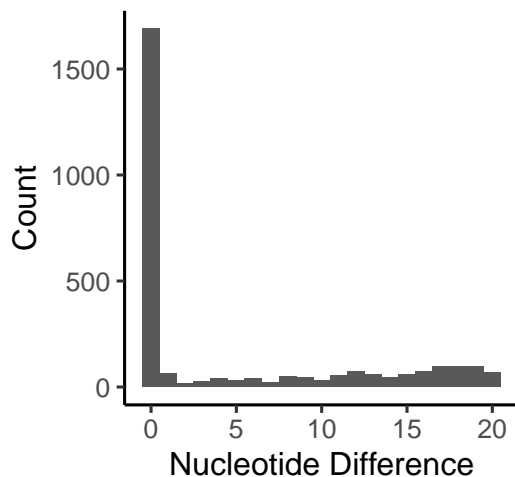
IGHV1-45*02

164 sequences assigned
18 (11%) exact matches, in which:
14 unique CDR3
5 unique J



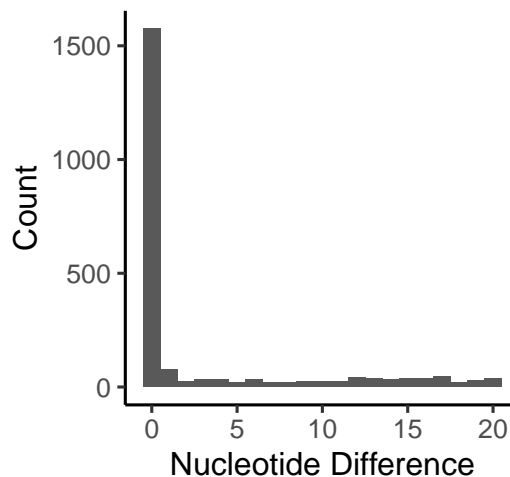
IGHV1-3*01

3569 sequences assigned
1690 (47.4%) exact matches, in which:
1430 unique CDR3
6 unique J



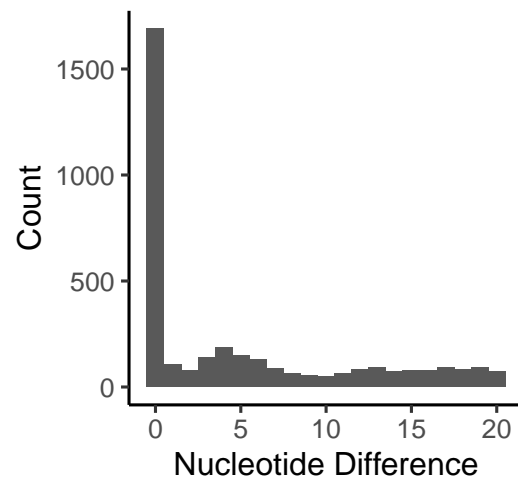
IGHV1-18*04

2537 sequences assigned
1575 (62.1%) exact matches, in which:
1283 unique CDR3
6 unique J



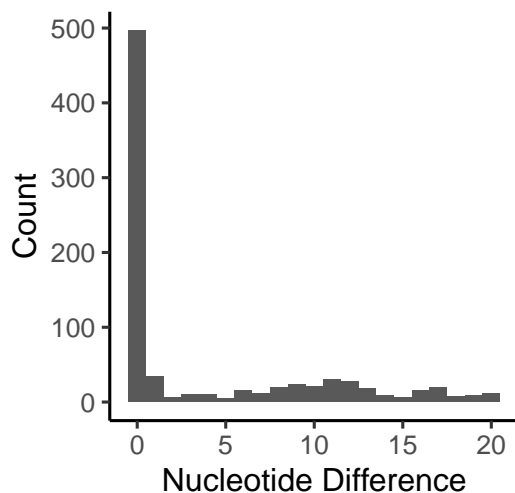
IGHV1-46*01

4455 sequences assigned
1690 (37.9%) exact matches, in which:
1310 unique CDR3
6 unique J



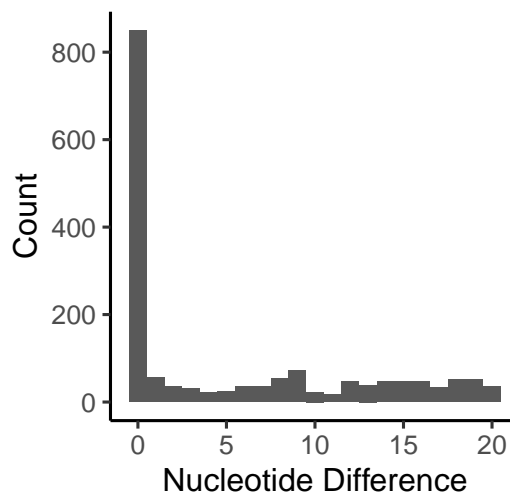
IGHV1-8*01

950 sequences assigned
497 (52.3%) exact matches, in which:
410 unique CDR3
6 unique J



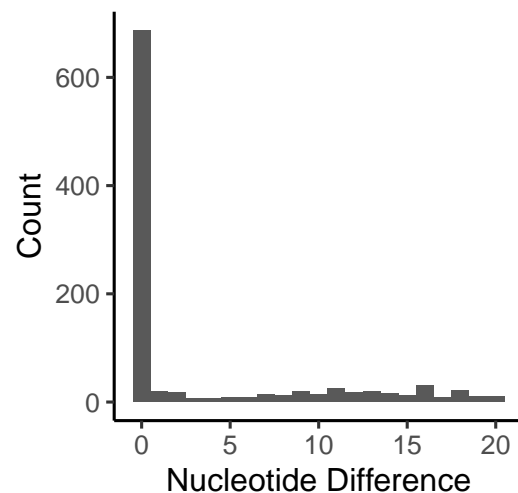
IGHV1-24*01

2080 sequences assigned
850 (40.9%) exact matches, in which:
712 unique CDR3
6 unique J



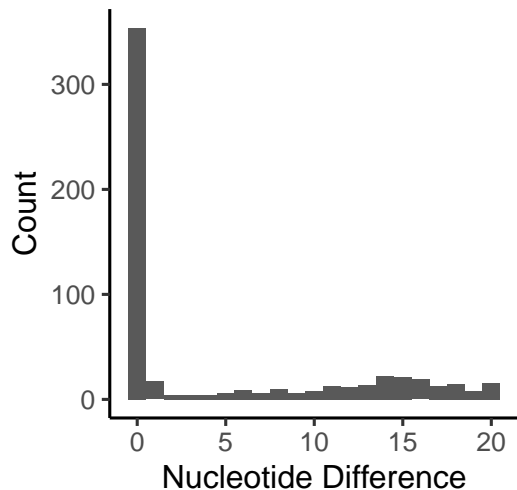
IGHV1-46*03

1104 sequences assigned
687 (62.2%) exact matches, in which:
556 unique CDR3
6 unique J



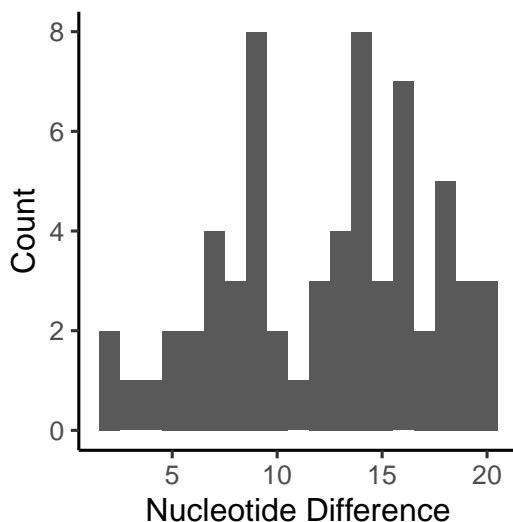
IGHV1–58*01

667 sequences assigned
354 (53.1%) exact matches, in which:
260 unique CDR3
6 unique J



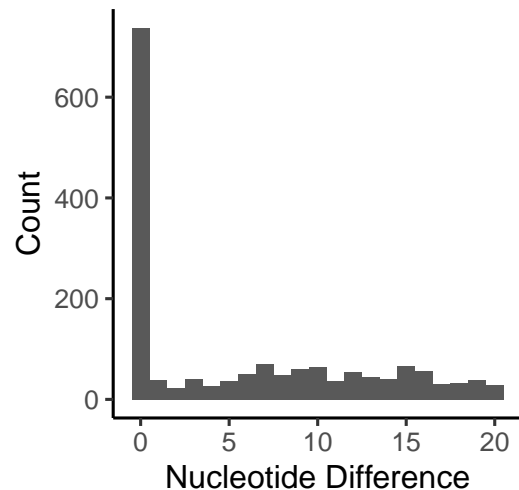
IGHV2–5*01

135 sequences assigned
No exact matches.



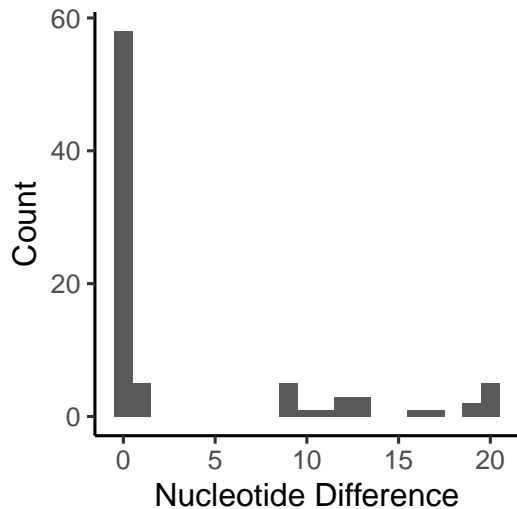
IGHV2–70*01

1855 sequences assigned
738 (39.8%) exact matches, in which:
555 unique CDR3
5 unique J



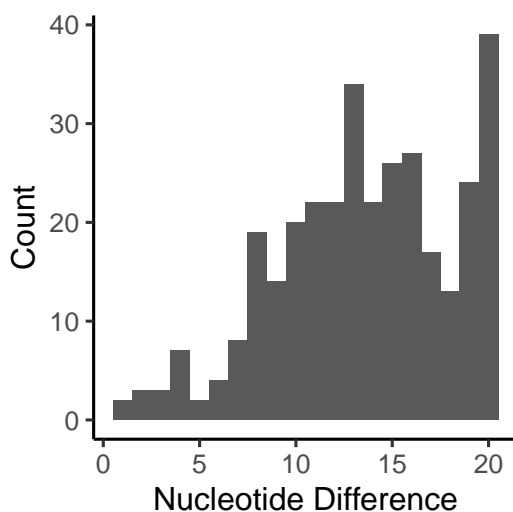
IGHV1–58*02

139 sequences assigned
58 (41.7%) exact matches, in which:
50 unique CDR3
5 unique J



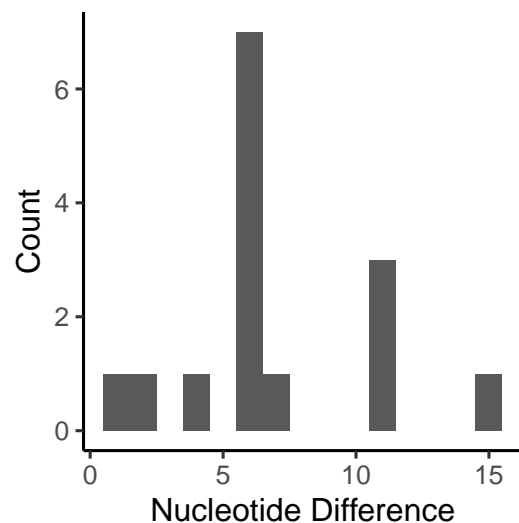
IGHV2–5*02

529 sequences assigned
No exact matches.



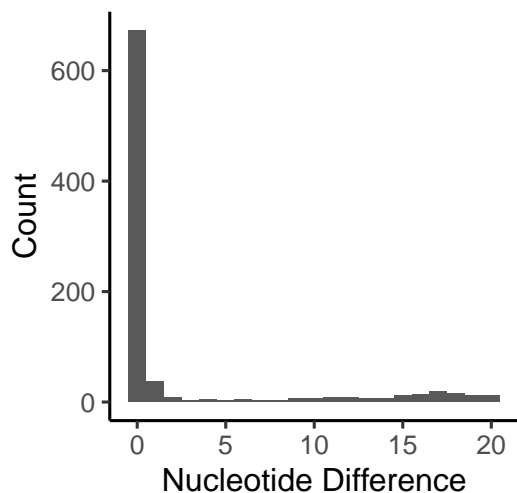
IGHV2–70D*14

15 sequences assigned
No exact matches.



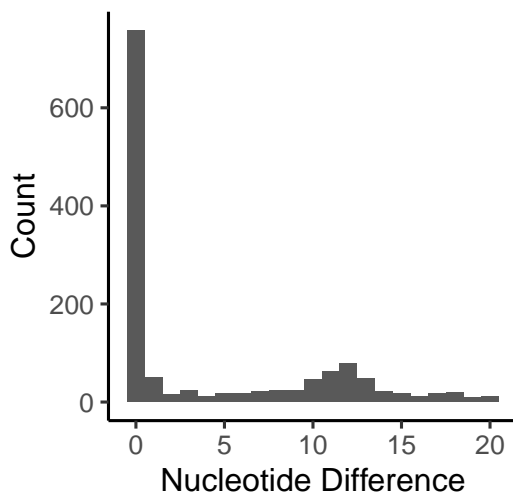
IGHV1–69*02

1097 sequences assigned
673 (61.3%) exact matches, in which:
608 unique CDR3
6 unique J



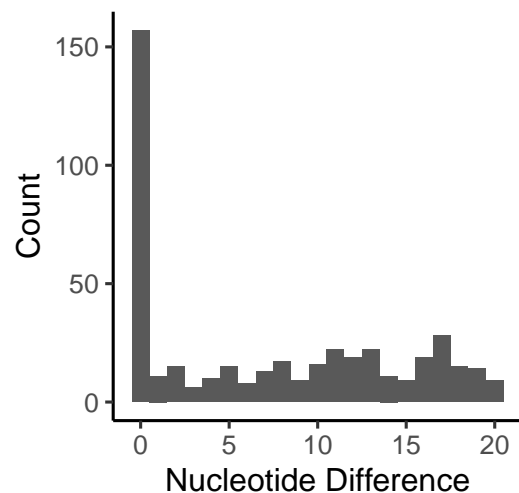
IGHV2–26*01

1386 sequences assigned
758 (54.7%) exact matches, in which:
640 unique CDR3
6 unique J



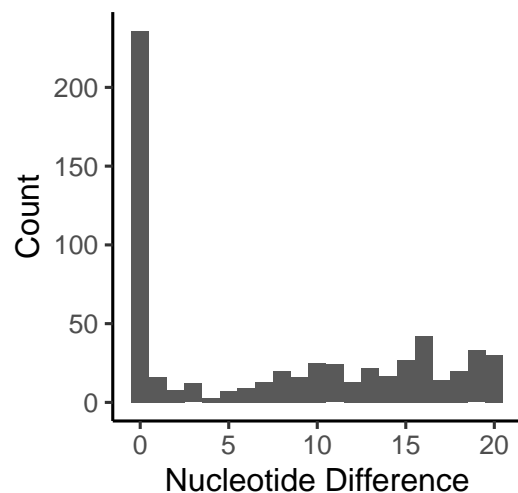
IGHV3–7*01

521 sequences assigned
157 (30.1%) exact matches, in which:
146 unique CDR3
4 unique J



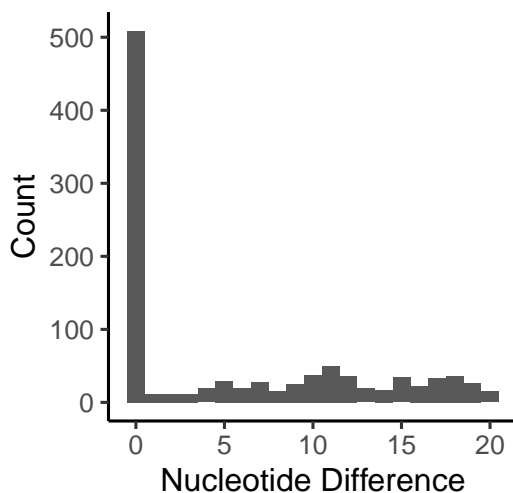
IGHV3-7*03

734 sequences assigned
236 (32.2%) exact matches, in which:
219 unique CDR3
6 unique J



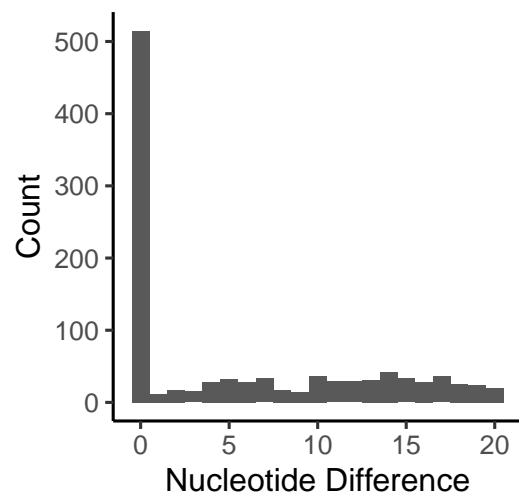
IGHV3-11*06

1255 sequences assigned
509 (40.6%) exact matches, in which:
446 unique CDR3
6 unique J



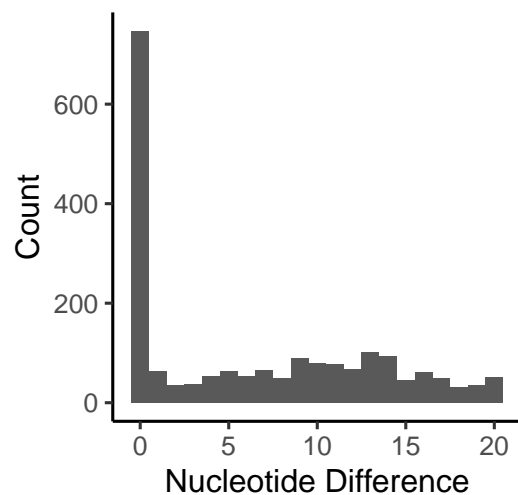
IGHV3-15*01

1344 sequences assigned
515 (38.3%) exact matches, in which:
488 unique CDR3
5 unique J



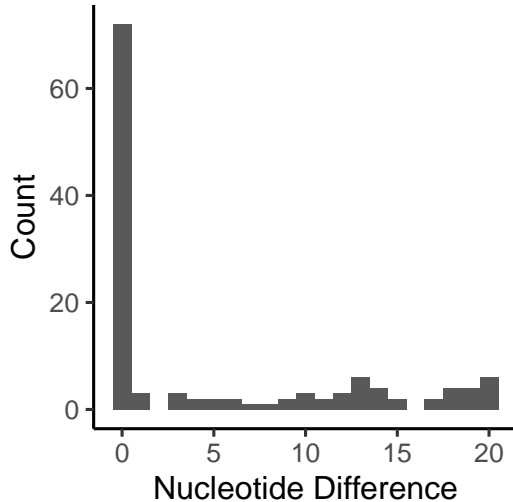
IGHV3-9*01

2162 sequences assigned
747 (34.6%) exact matches, in which:
675 unique CDR3
6 unique J



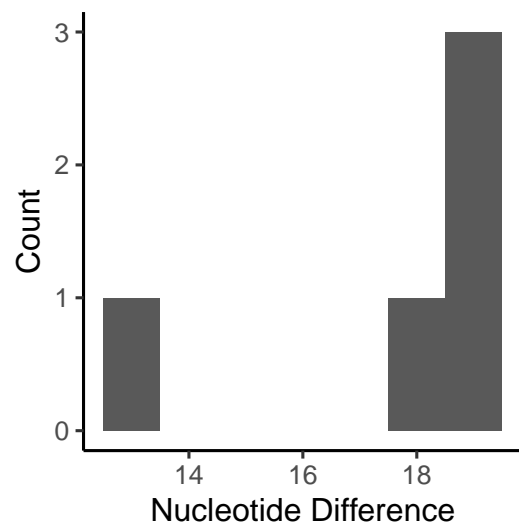
IGHV3-13*01

140 sequences assigned
72 (51.4%) exact matches, in which:
65 unique CDR3
5 unique J



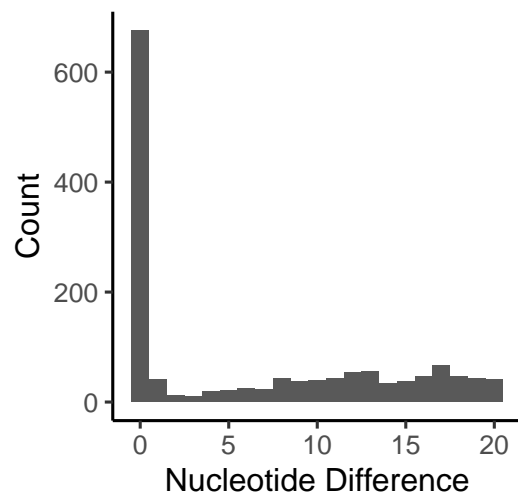
IGHV3-20*01

5 sequences assigned
No exact matches.



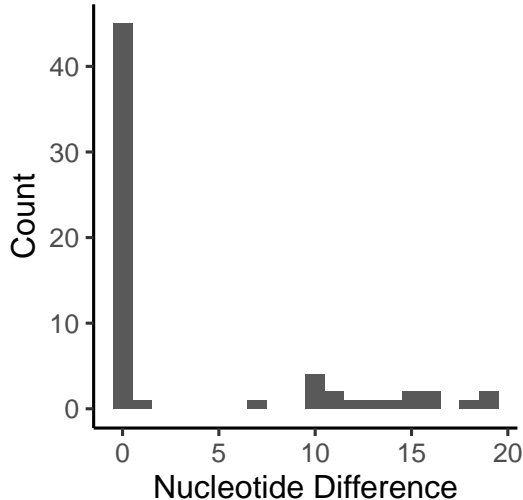
IGHV3-11*01

1595 sequences assigned
676 (42.4%) exact matches, in which:
604 unique CDR3
6 unique J



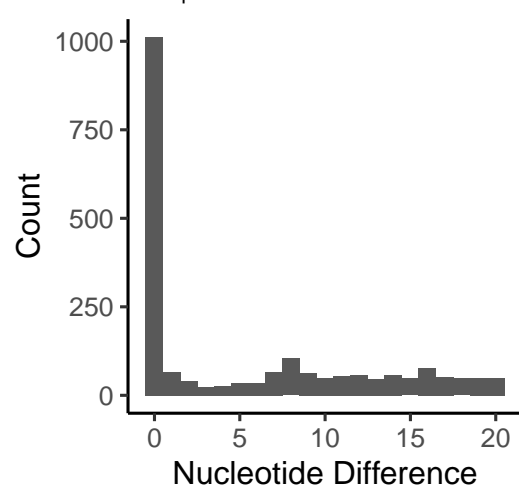
IGHV3-13*05

70 sequences assigned
45 (64.3%) exact matches, in which:
41 unique CDR3
4 unique J



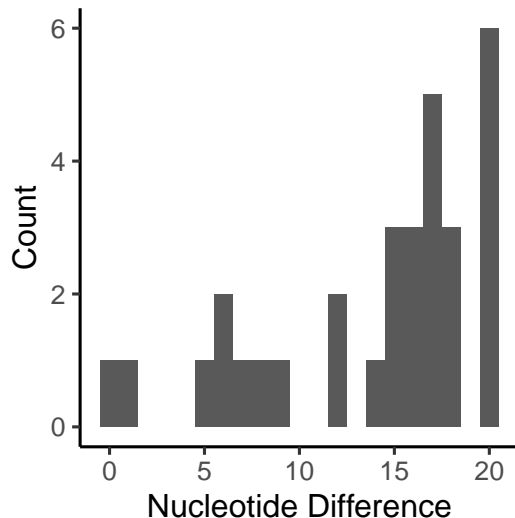
IGHV3-30*01

2379 sequences assigned
1012 (42.5%) exact matches, in which:
917 unique CDR3
6 unique J



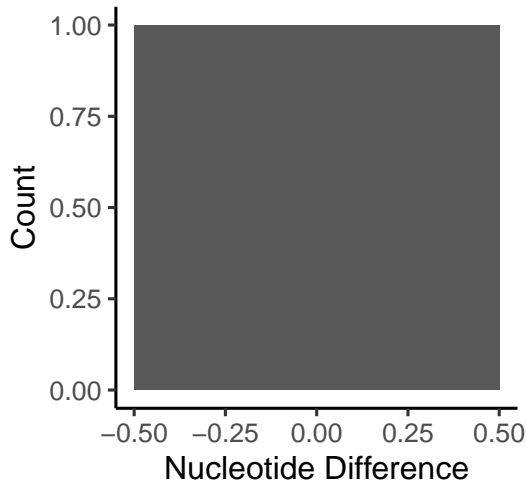
IGHV3-30-3*01

92 sequences assigned
1 (1.1%) exact matches, in which:
1 unique CDR3
1 unique J



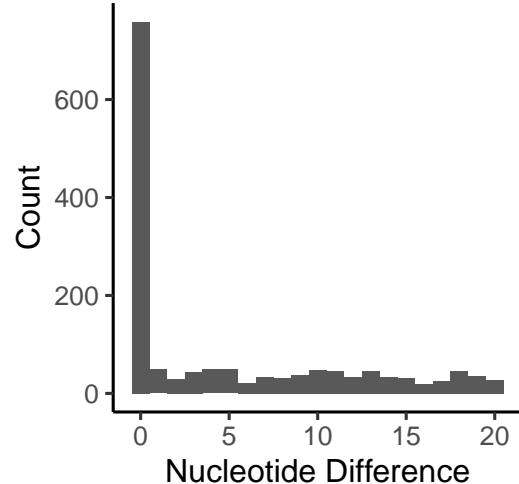
IGHV3-35*01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



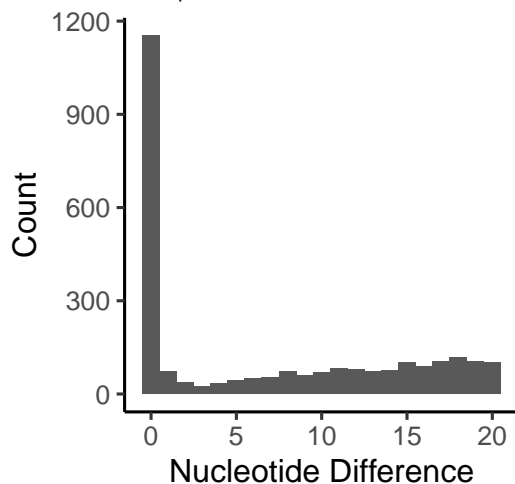
IGHV3-48*02

1793 sequences assigned
759 (42.3%) exact matches, in which:
689 unique CDR3
6 unique J



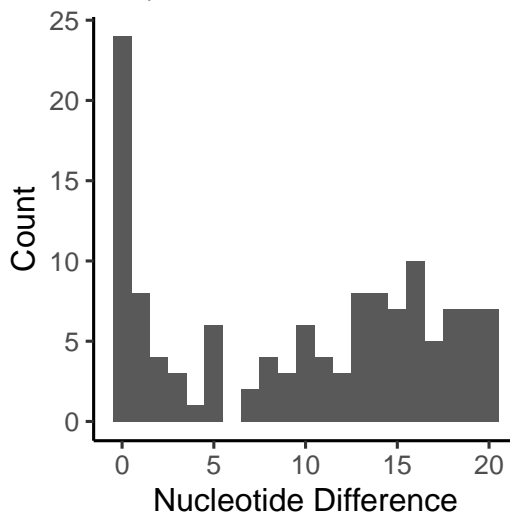
IGHV3-30*18

3344 sequences assigned
1153 (34.5%) exact matches, in which:
1029 unique CDR3
6 unique J



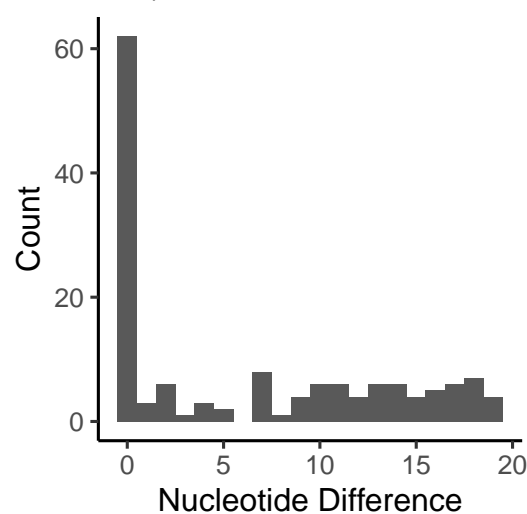
IGHV3-43*01

200 sequences assigned
24 (12%) exact matches, in which:
20 unique CDR3
4 unique J



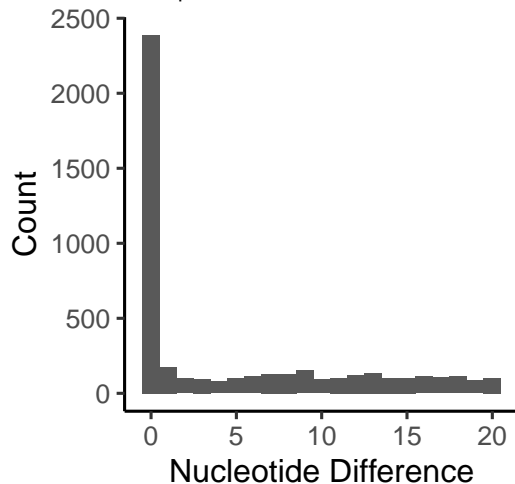
IGHV3-49*04

236 sequences assigned
62 (26.3%) exact matches, in which:
55 unique CDR3
4 unique J



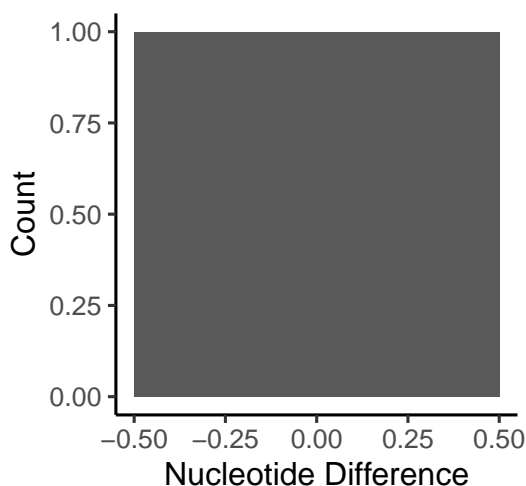
IGHV3-33*01

5450 sequences assigned
2388 (43.8%) exact matches, in which:
2120 unique CDR3
6 unique J



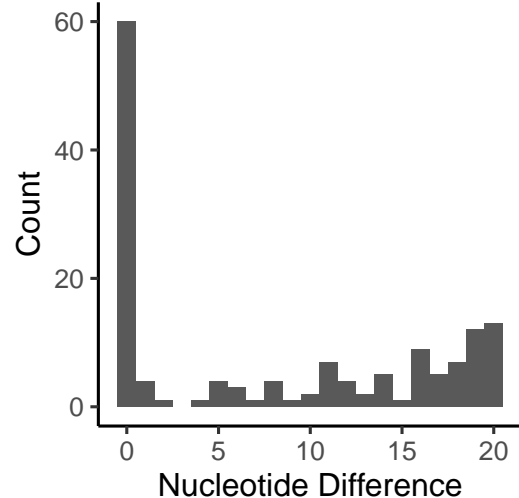
IGHV3-47*02

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



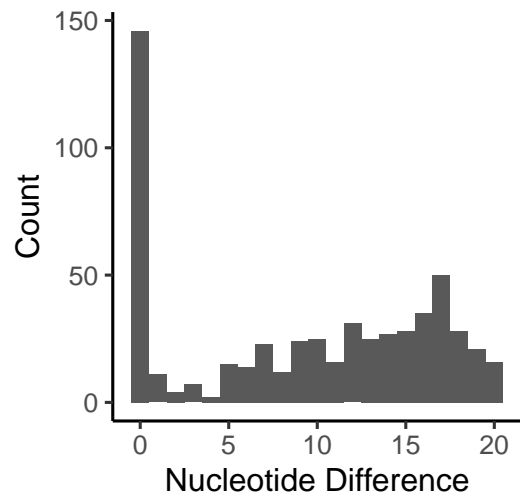
IGHV3-49*05

214 sequences assigned
60 (28%) exact matches, in which:
55 unique CDR3
5 unique J



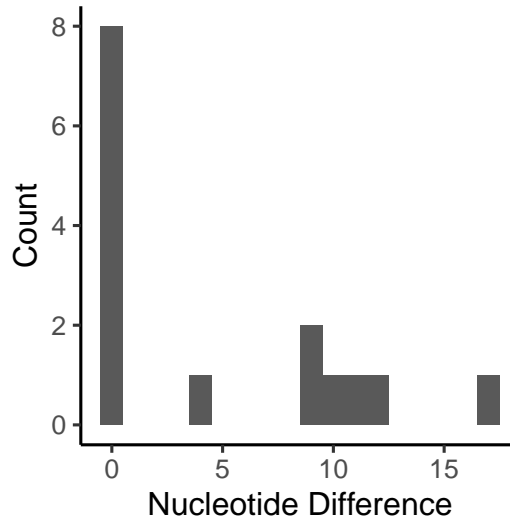
IGHV3-53*01

759 sequences assigned
146 (19.2%) exact matches, in which:
136 unique CDR3
6 unique J



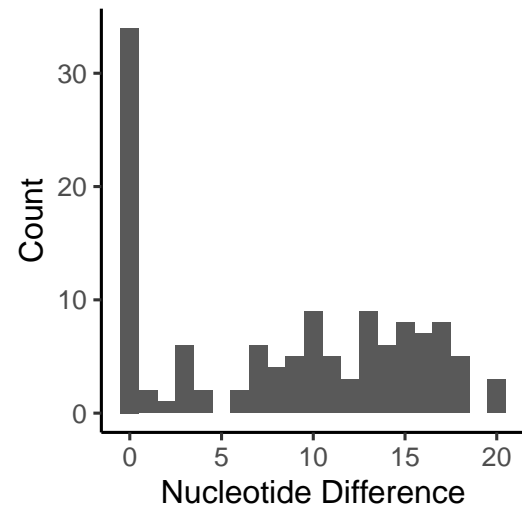
IGHV3-64*02

16 sequences assigned
8 (50%) exact matches, in which:
8 unique CDR3
3 unique J



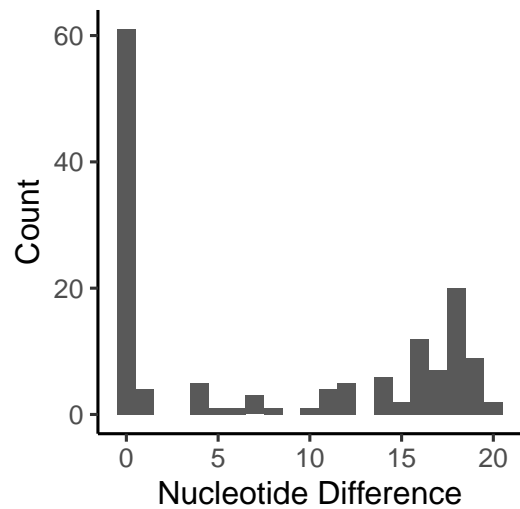
IGHV3-73*01

189 sequences assigned
34 (18%) exact matches, in which:
32 unique CDR3
4 unique J



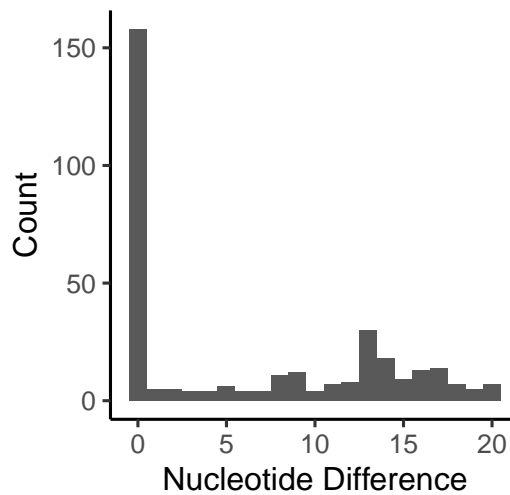
IGHV3-53*04

164 sequences assigned
61 (37.2%) exact matches, in which:
54 unique CDR3
5 unique J



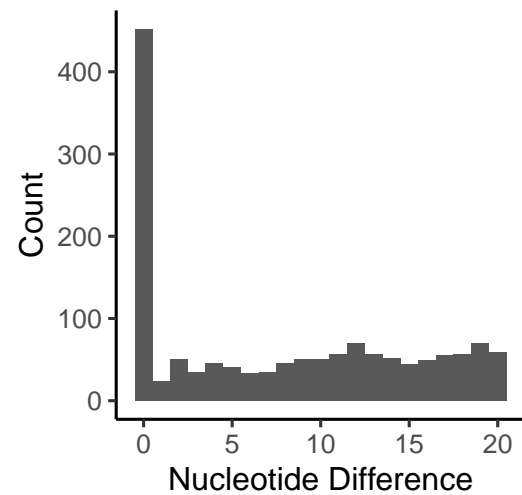
IGHV3-66*02

458 sequences assigned
158 (34.5%) exact matches, in which:
144 unique CDR3
6 unique J



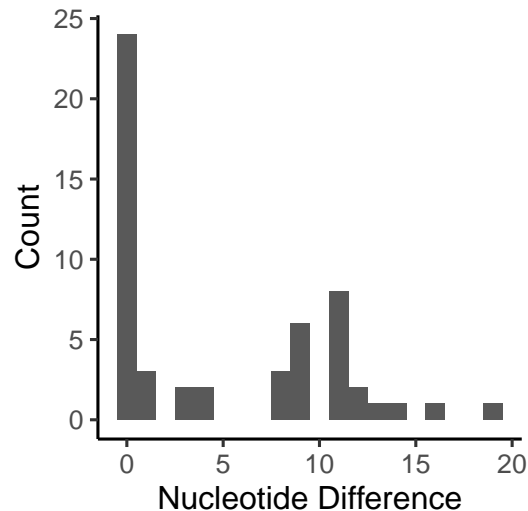
IGHV3-74*01

1968 sequences assigned
452 (23%) exact matches, in which:
419 unique CDR3
6 unique J



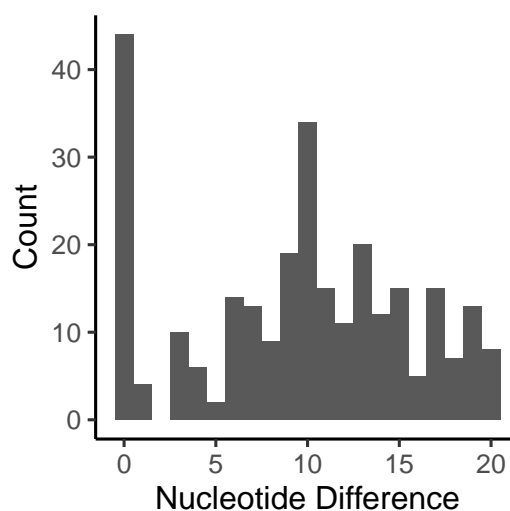
IGHV3-64*01

56 sequences assigned
24 (42.9%) exact matches, in which:
22 unique CDR3
5 unique J



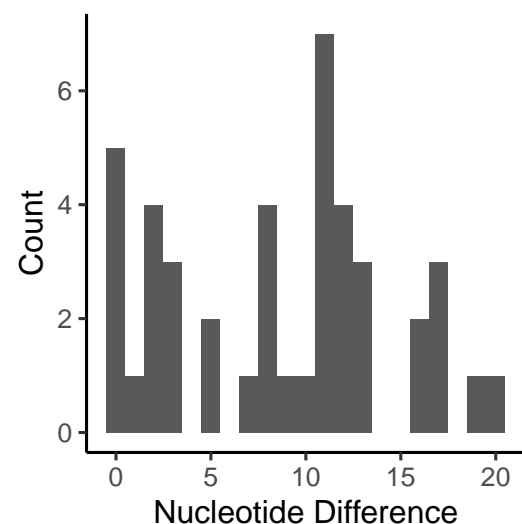
IGHV3-72*01

318 sequences assigned
44 (13.8%) exact matches, in which:
32 unique CDR3
4 unique J



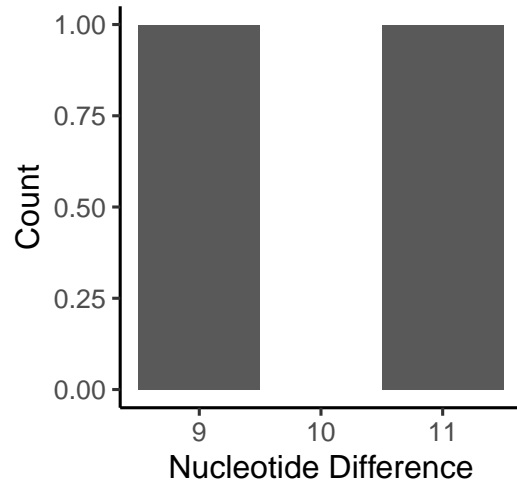
IGHV3-43D*03

54 sequences assigned
5 (9.3%) exact matches, in which:
5 unique CDR3
2 unique J



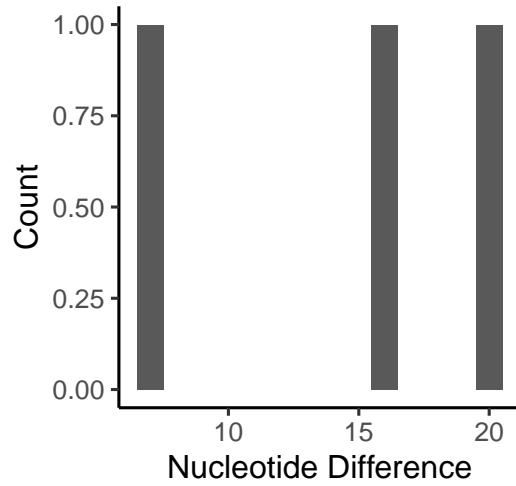
IGHV3-43D*04

3 sequences assigned
No exact matches.



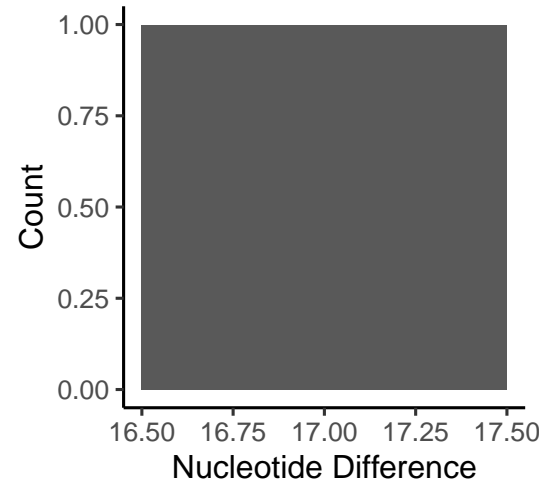
IGHV4-28*03

3 sequences assigned
No exact matches.



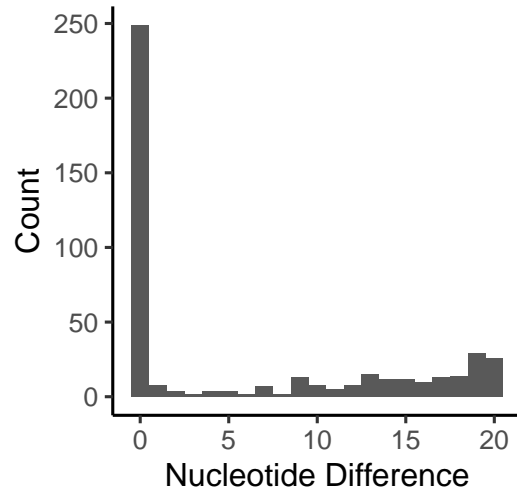
IGHV4-30-4*08

4 sequences assigned
No exact matches.



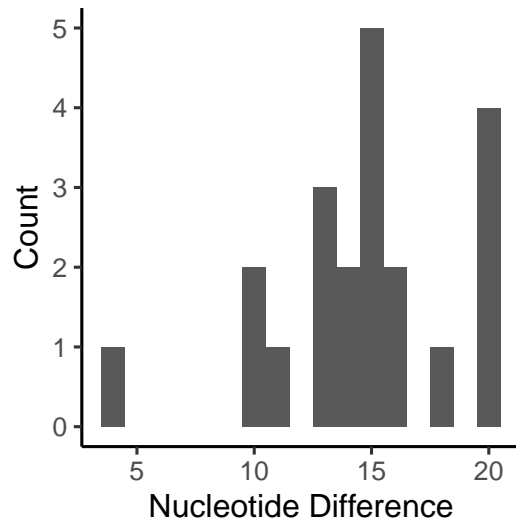
IGHV3-64D*06

573 sequences assigned
249 (43.5%) exact matches, in which:
224 unique CDR3
6 unique J



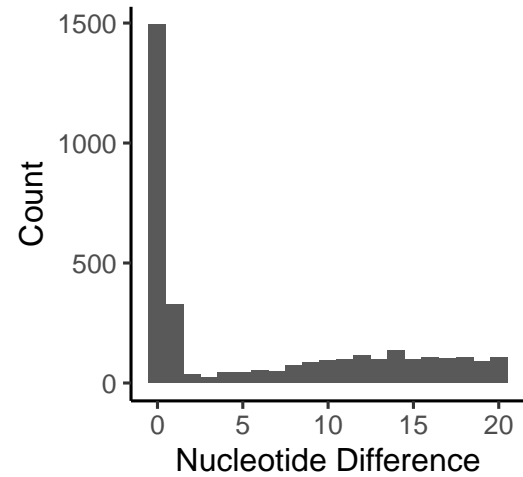
IGHV4-30-4*01

33 sequences assigned
No exact matches.



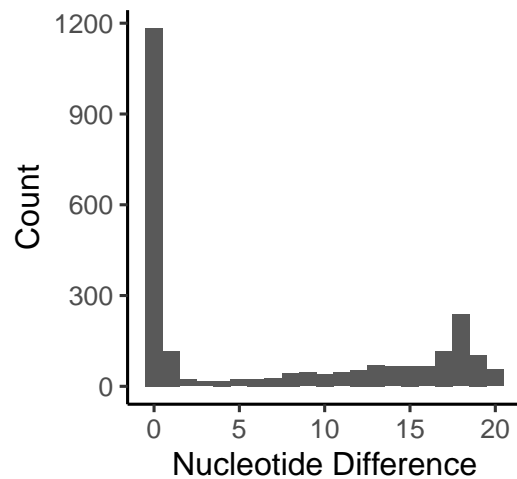
IGHV4-31*03

4107 sequences assigned
1493 (36.4%) exact matches, in which:
1444 unique CDR3
6 unique J



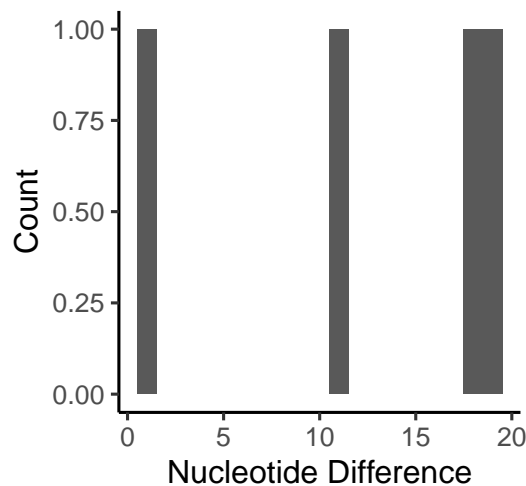
IGHV4-4*02

2847 sequences assigned
1184 (41.6%) exact matches, in which:
1145 unique CDR3
6 unique J



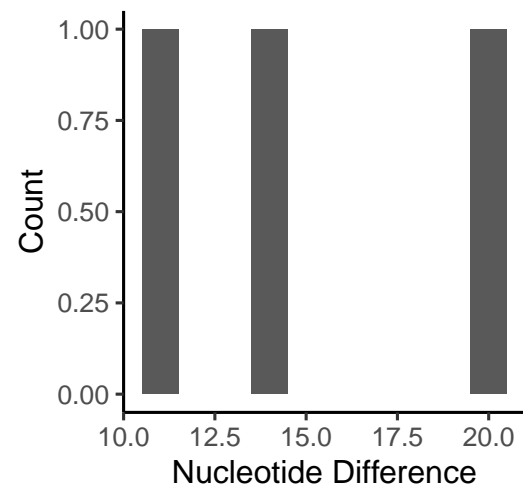
IGHV4-30-2*01

5 sequences assigned
No exact matches.



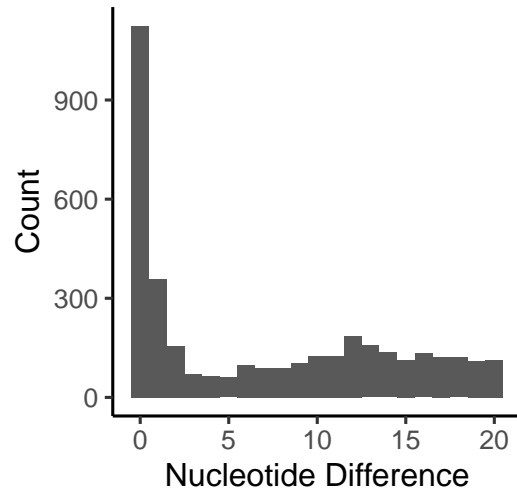
IGHV4-38-2*02

6 sequences assigned
No exact matches.



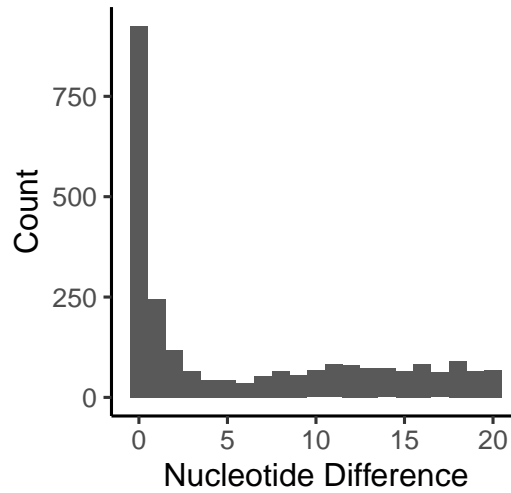
IGHV4–39*01

4843 sequences assigned
1125 (23.2%) exact matches, in which:
1103 unique CDR3
6 unique J



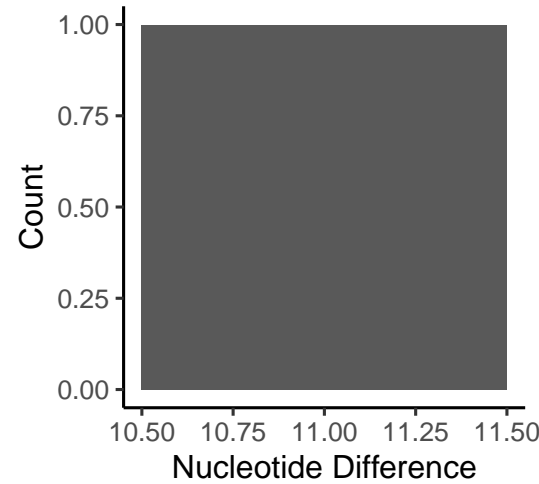
IGHV4–61*02

2914 sequences assigned
926 (31.8%) exact matches, in which:
906 unique CDR3
6 unique J



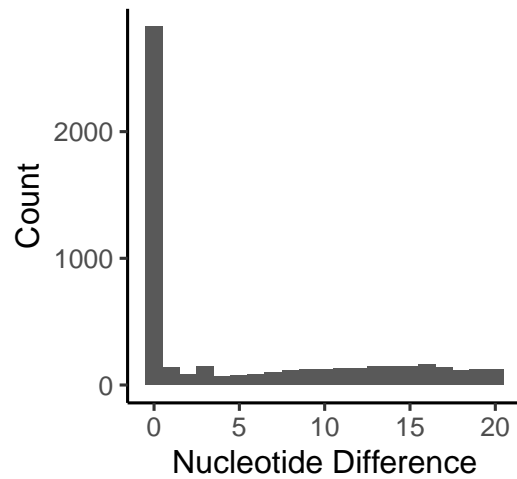
IGHV5–78*01

1 sequences assigned
No exact matches.



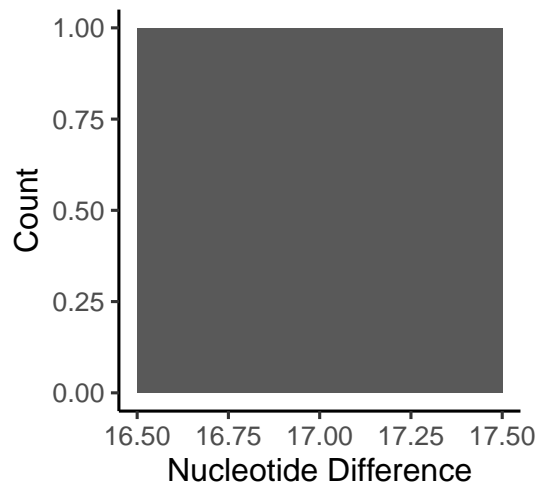
IGHV4–59*01

6252 sequences assigned
2828 (45.2%) exact matches, in which:
2725 unique CDR3
6 unique J



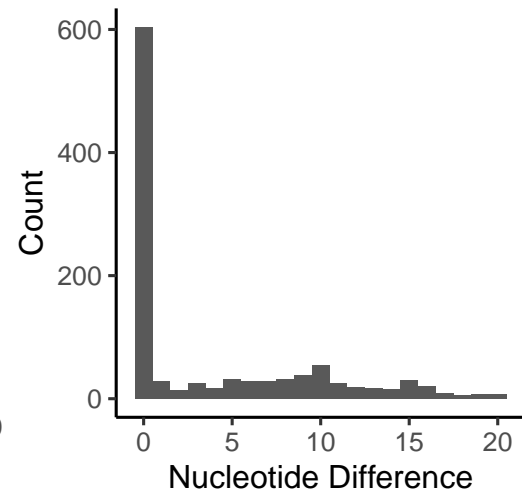
IGHV4/OR15–8*02

2 sequences assigned
No exact matches.



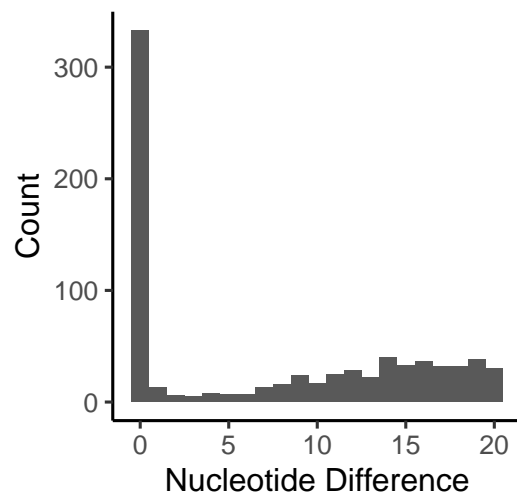
IGHV6–1*01

1097 sequences assigned
604 (55.1%) exact matches, in which:
504 unique CDR3
6 unique J



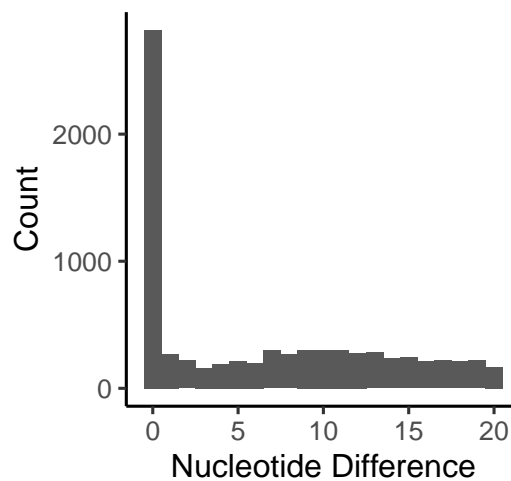
IGHV4–61*01

1060 sequences assigned
333 (31.4%) exact matches, in which:
325 unique CDR3
6 unique J



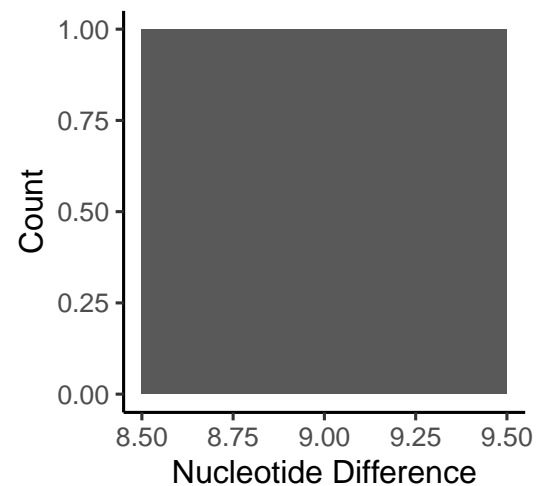
IGHV5–51*01

8670 sequences assigned
2819 (32.5%) exact matches, in which:
2377 unique CDR3
6 unique J



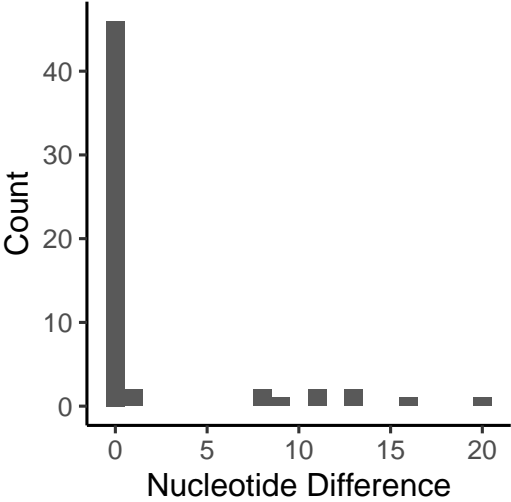
IGHV3/OR16–9*01

1 sequences assigned
No exact matches.



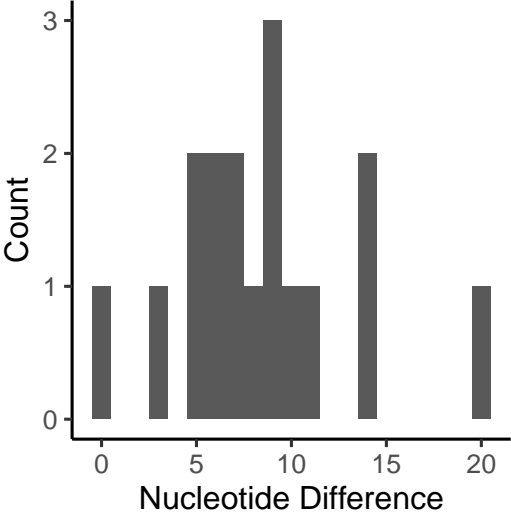
IGHV7-4-1*01

59 sequences assigned
46 (78%) exact matches, in which:
38 unique CDR3
5 unique J



IGHV7-4-1*02

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J





Warning – no inferred sequences found.