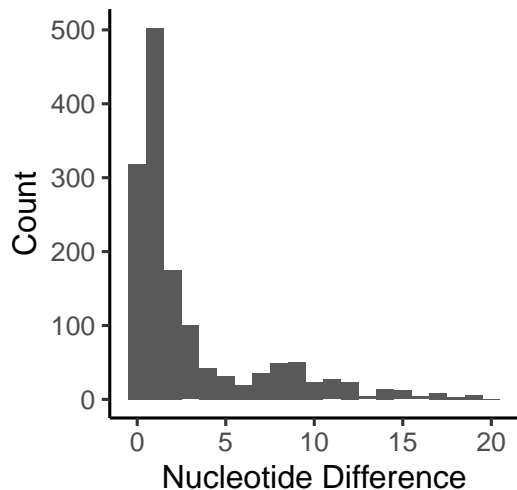


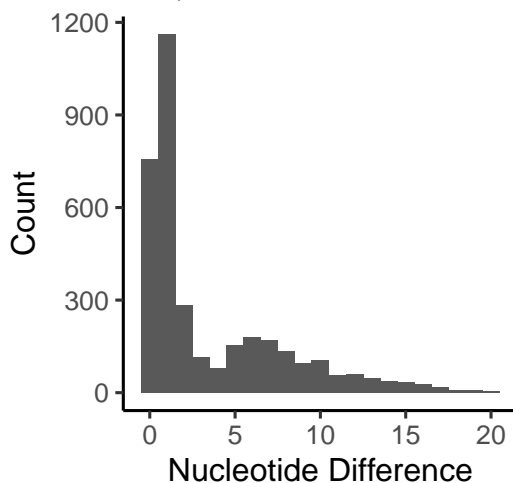
IGHV1-2*04

1483 sequences assigned
319 (21.5%) exact matches, in which:
261 unique CDR3
7 unique J



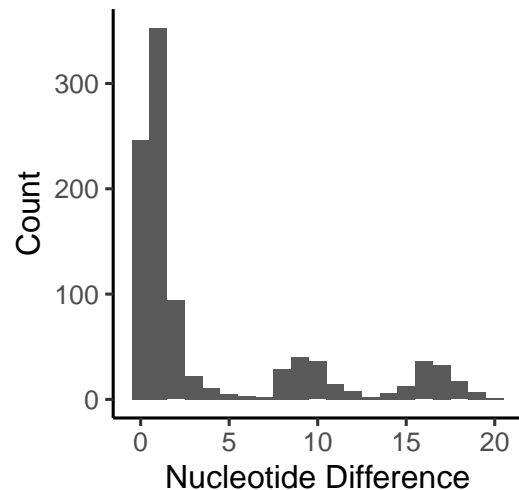
IGHV1-8*01

3794 sequences assigned
756 (19.9%) exact matches, in which:
587 unique CDR3
7 unique J



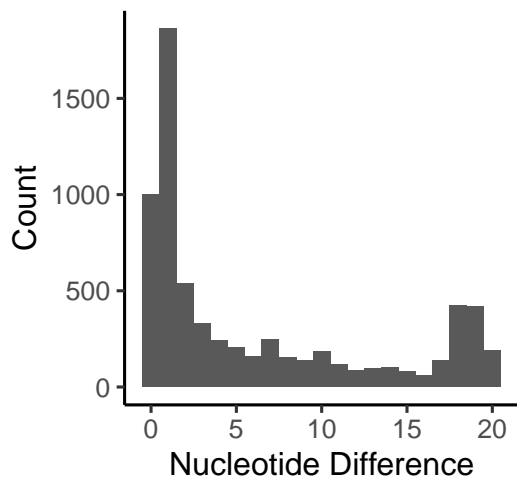
IGHV1-24*01

1028 sequences assigned
246 (23.9%) exact matches, in which:
205 unique CDR3
6 unique J



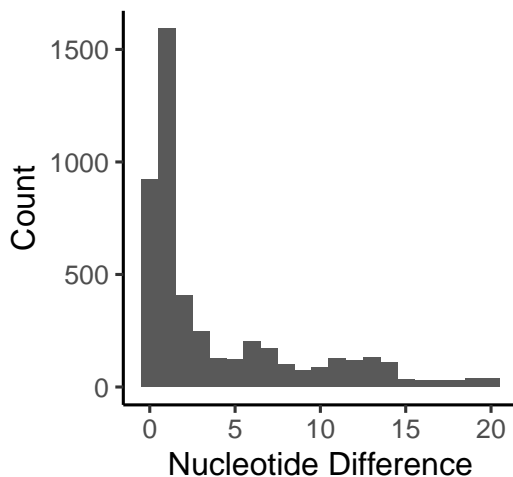
IGHV1-2*06

6966 sequences assigned
1002 (14.4%) exact matches, in which:
736 unique CDR3
7 unique J



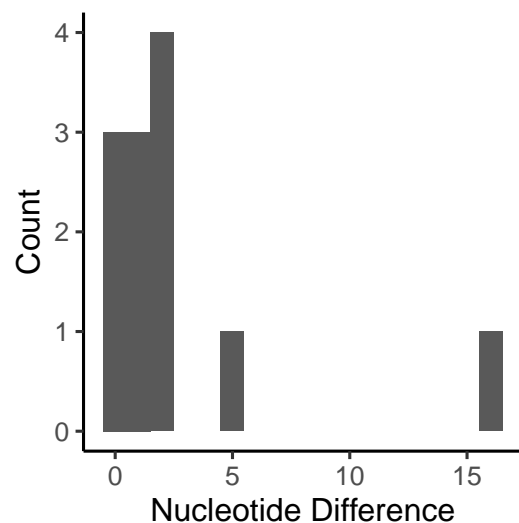
IGHV1-18*01

6883 sequences assigned
920 (13.4%) exact matches, in which:
688 unique CDR3
7 unique J



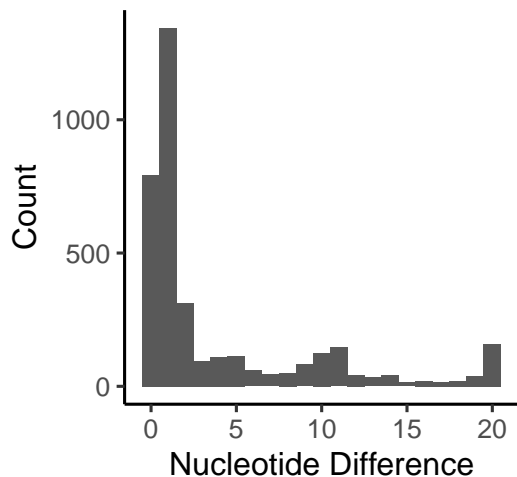
IGHV1-45*02

12 sequences assigned
3 (25%) exact matches, in which:
3 unique CDR3
0 unique J



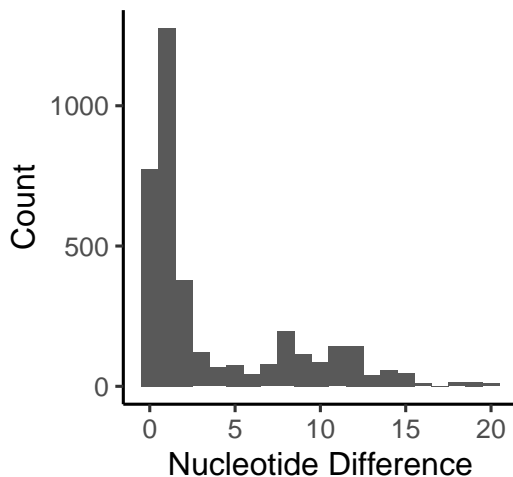
IGHV1-3*01_05

6291 sequences assigned
793 (12.6%) exact matches, in which:
540 unique CDR3
7 unique J



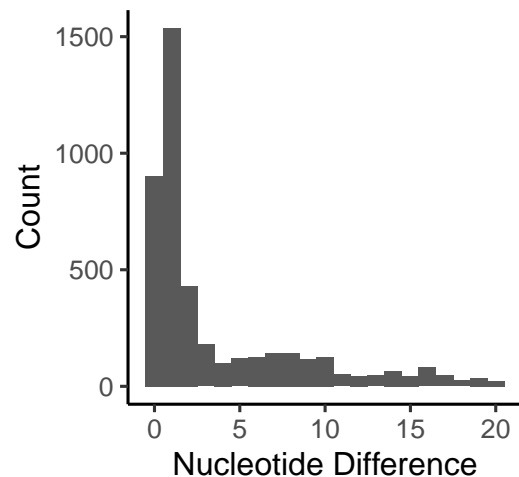
IGHV1-18*04

4438 sequences assigned
774 (17.4%) exact matches, in which:
592 unique CDR3
7 unique J



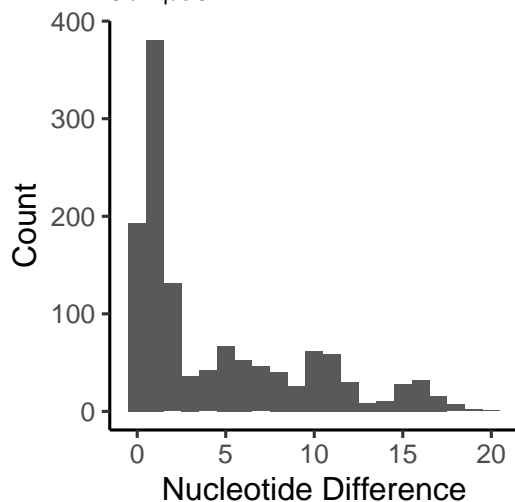
IGHV1-46*01

5661 sequences assigned
901 (15.9%) exact matches, in which:
675 unique CDR3
7 unique J



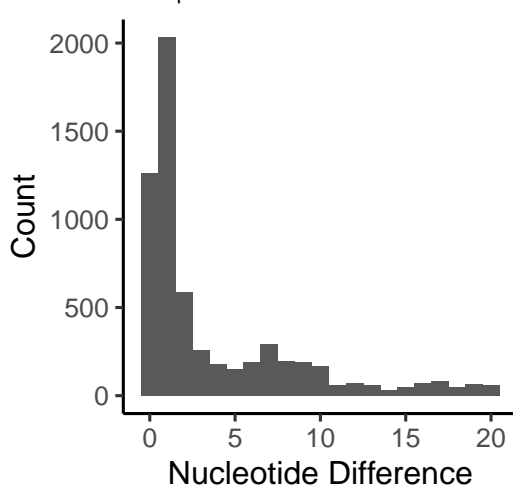
IGHV1-58*01_03

1275 sequences assigned
193 (15.1%) exact matches, in which:
137 unique CDR3
6 unique J



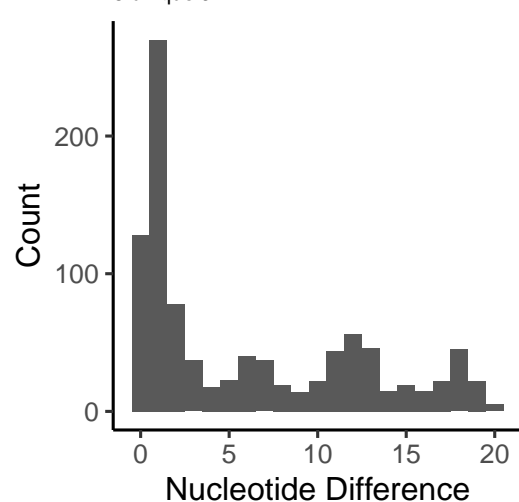
IGHV1-69*06_14

7020 sequences assigned
1263 (18%) exact matches, in which:
968 unique CDR3
7 unique J



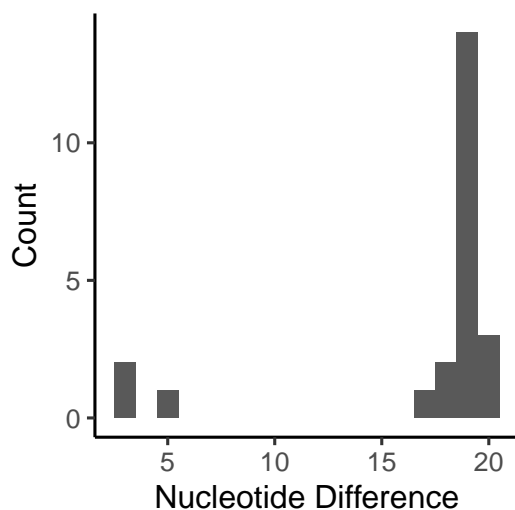
IGHV2-5*02

1030 sequences assigned
128 (12.4%) exact matches, in which:
90 unique CDR3
5 unique J



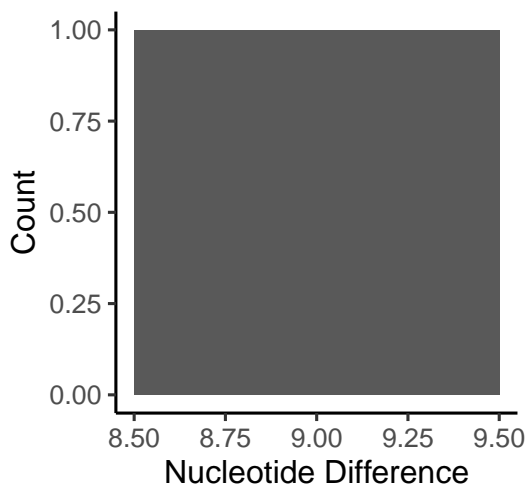
IGHV1-69-2*01

23 sequences assigned
No exact matches.



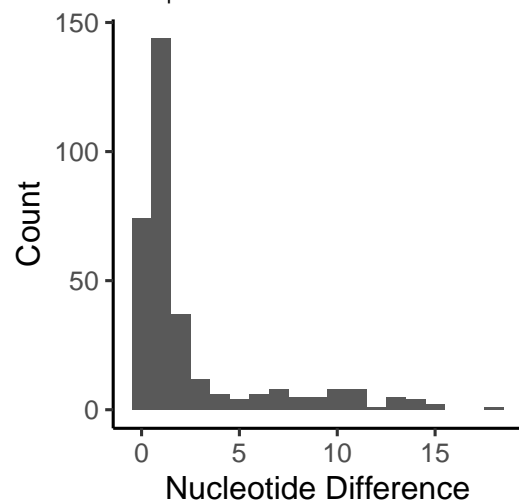
IGHV1-NL1*01

1 sequences assigned
No exact matches.



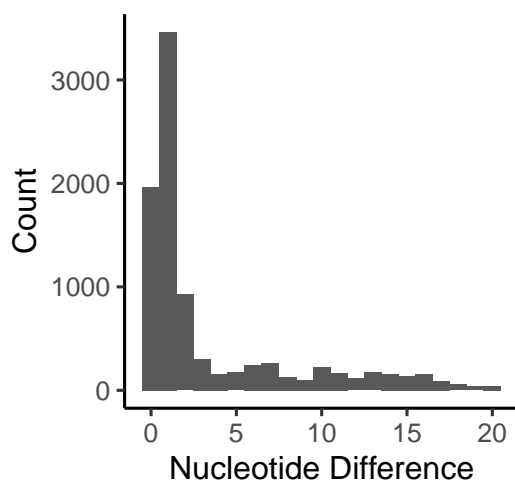
IGHV2-26*01

343 sequences assigned
74 (21.6%) exact matches, in which:
53 unique CDR3
5 unique J



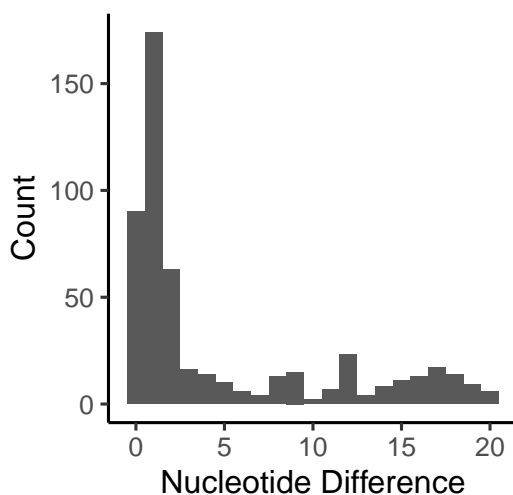
IGHV1-69*01_12_13

9874 sequences assigned
1966 (19.9%) exact matches, in which:
1456 unique CDR3
7 unique J



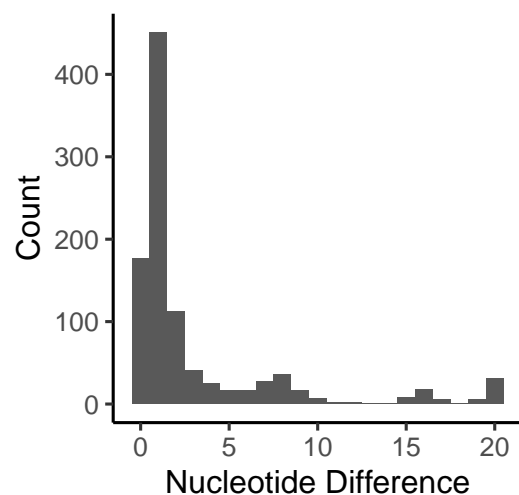
IGHV2-5*01

616 sequences assigned
90 (14.6%) exact matches, in which:
57 unique CDR3
6 unique J



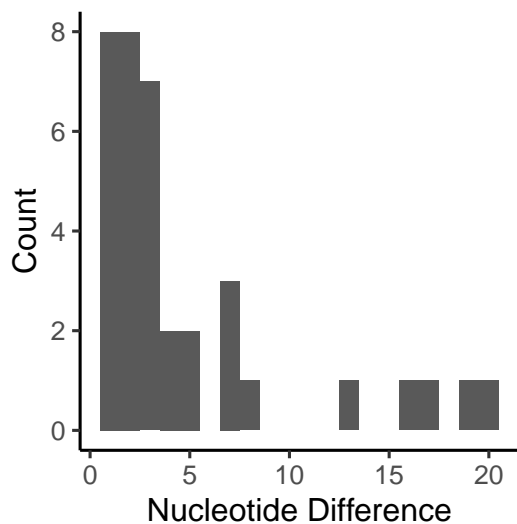
IGHV2-70*01

1134 sequences assigned
177 (15.6%) exact matches, in which:
110 unique CDR3
6 unique J



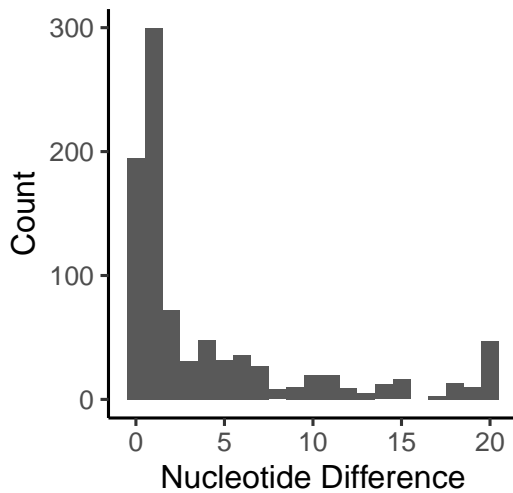
IGHV2-70*12

37 sequences assigned
No exact matches.



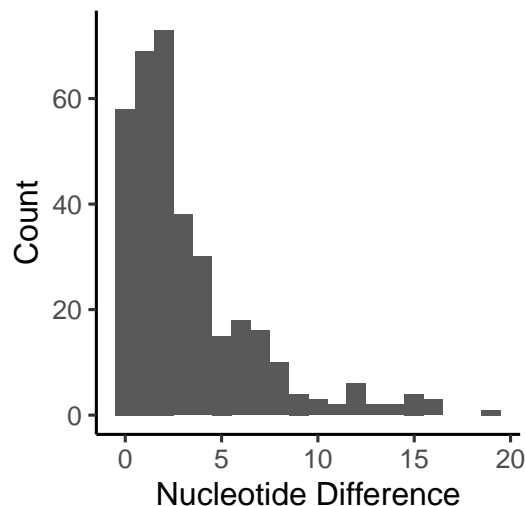
IGHV3-7*05

1053 sequences assigned
195 (18.5%) exact matches, in which:
117 unique CDR3
6 unique J



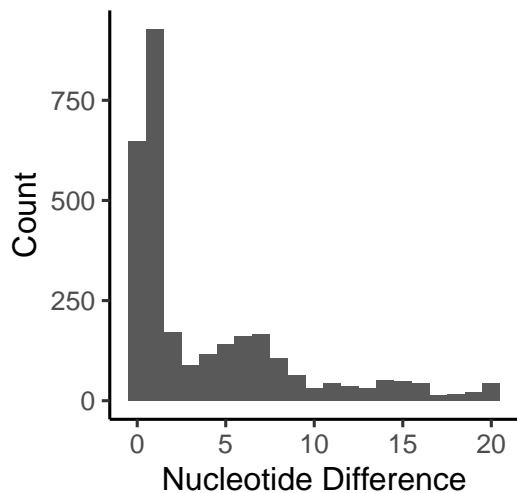
IGHV3-11*04

362 sequences assigned
58 (16%) exact matches, in which:
53 unique CDR3
6 unique J



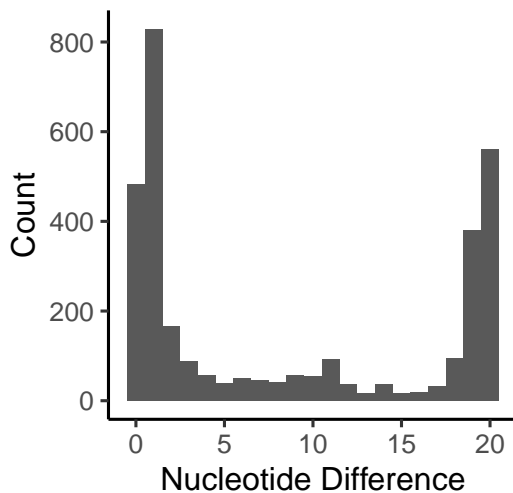
IGHV3-7*01

3337 sequences assigned
648 (19.4%) exact matches, in which:
423 unique CDR3
6 unique J



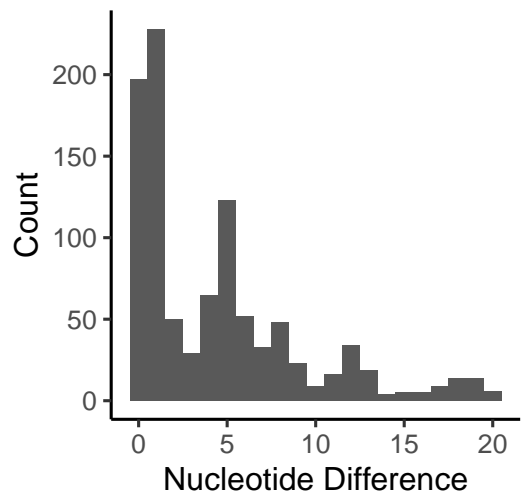
IGHV3-9*01

4730 sequences assigned
483 (10.2%) exact matches, in which:
286 unique CDR3
7 unique J



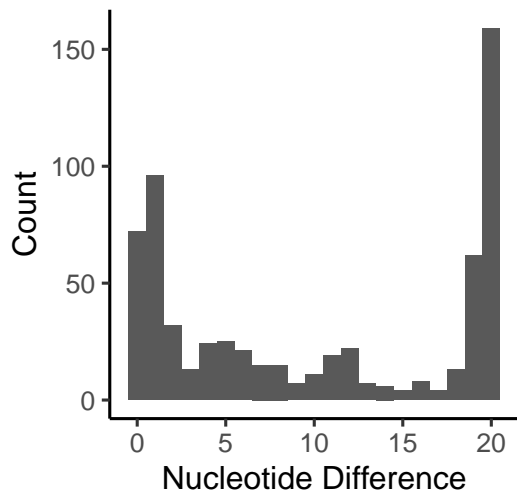
IGHV3-11*06

1019 sequences assigned
197 (19.3%) exact matches, in which:
141 unique CDR3
6 unique J



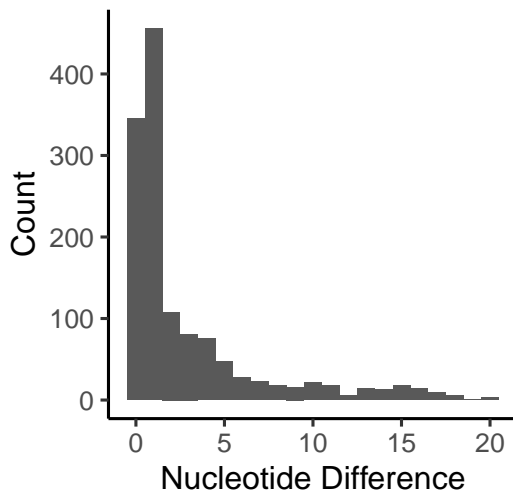
IGHV3-7*03

1119 sequences assigned
72 (6.4%) exact matches, in which:
53 unique CDR3
6 unique J



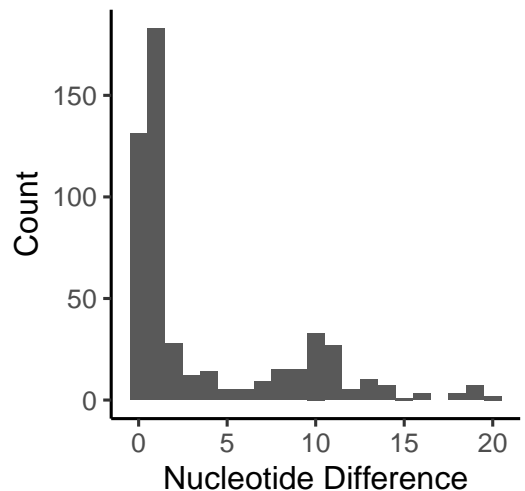
IGHV3-11*01

1351 sequences assigned
345 (25.5%) exact matches, in which:
231 unique CDR3
7 unique J



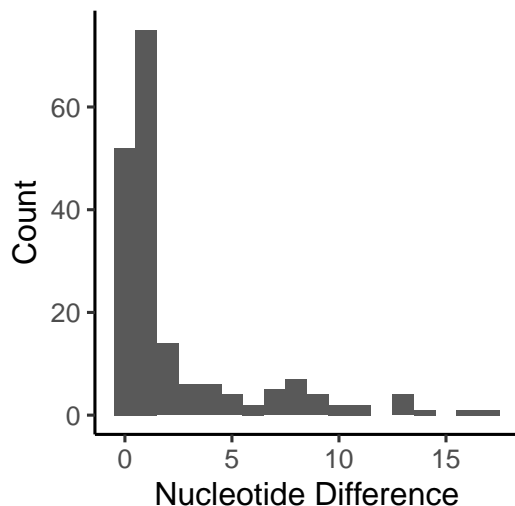
IGHV3-13*01

553 sequences assigned
131 (23.7%) exact matches, in which:
80 unique CDR3
6 unique J



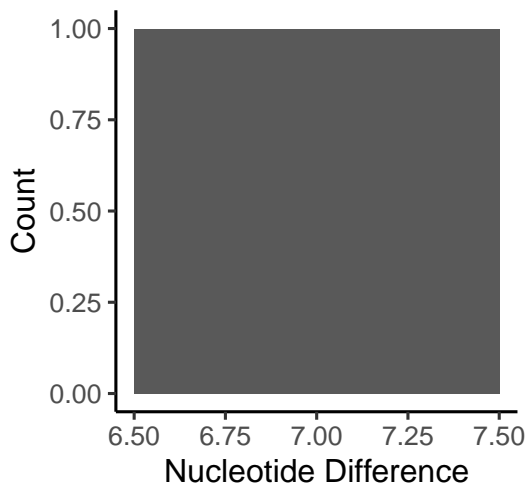
IGHV3-13*05

187 sequences assigned
52 (27.8%) exact matches, in which:
36 unique CDR3
6 unique J



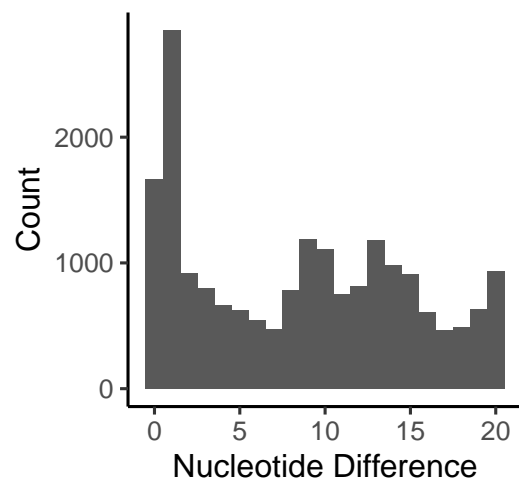
IGHV3-20*03_04

5 sequences assigned
No exact matches.



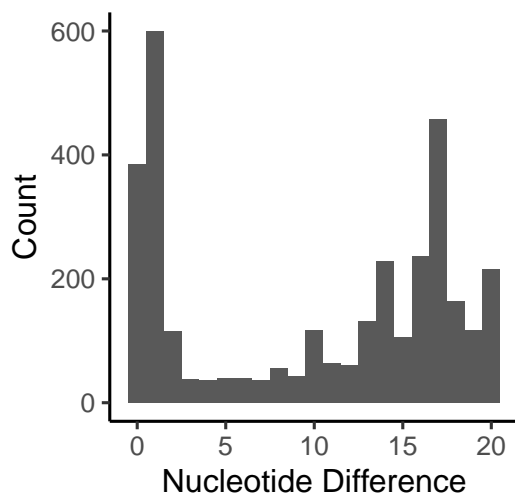
IGHV3-23*01_04

23844 sequences assigned
1665 (7%) exact matches, in which:
935 unique CDR3
7 unique J



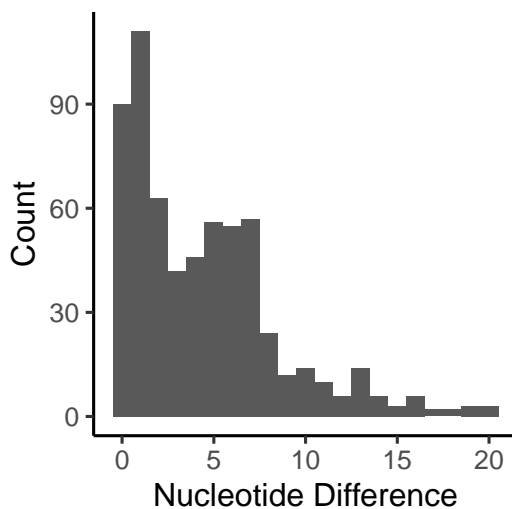
IGHV3-15*01_02

4096 sequences assigned
385 (9.4%) exact matches, in which:
226 unique CDR3
7 unique J



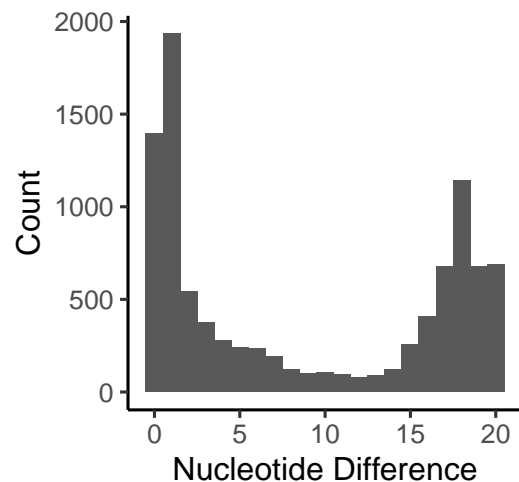
IGHV3-21*04

642 sequences assigned
90 (14%) exact matches, in which:
73 unique CDR3
7 unique J



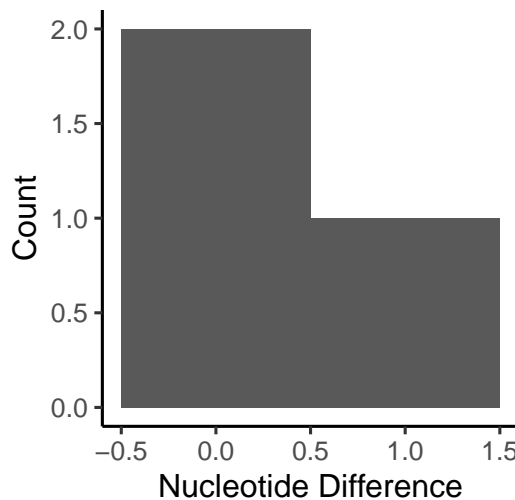
IGHV3-30-3*01

13427 sequences assigned
1393 (10.4%) exact matches, in which:
894 unique CDR3
7 unique J



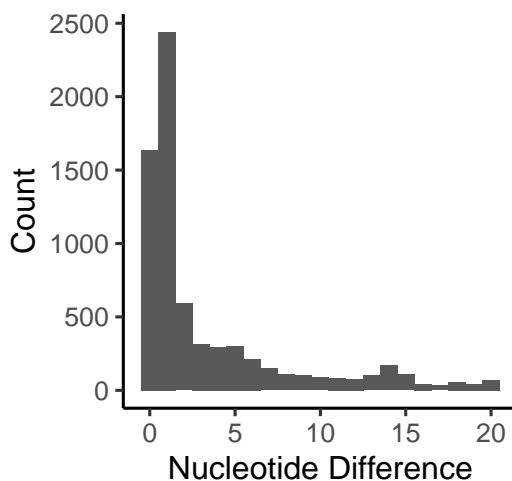
IGHV3-20*01_02

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



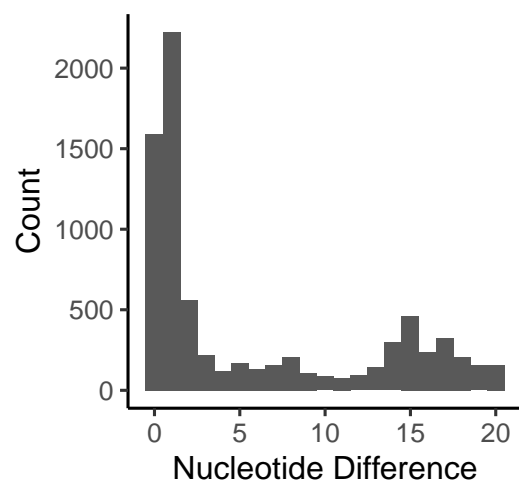
IGHV3-21*01_02

7323 sequences assigned
1635 (22.3%) exact matches, in which:
987 unique CDR3
7 unique J



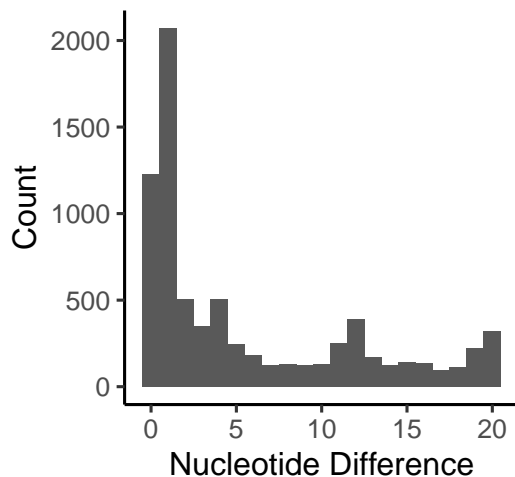
IGHV3-30*03

10506 sequences assigned
1592 (15.2%) exact matches, in which:
984 unique CDR3
7 unique J



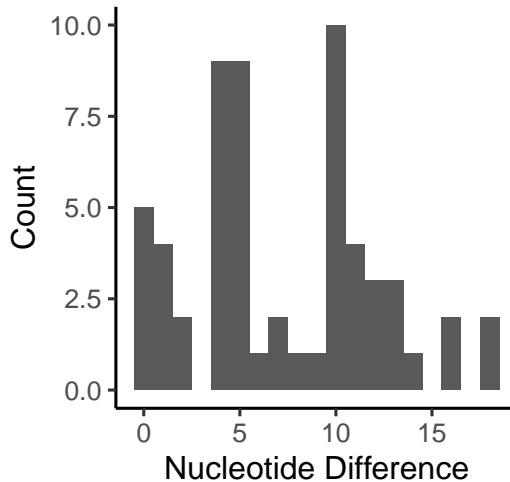
IGHV3-33*01

7884 sequences assigned
1226 (15.6%) exact matches, in which:
751 unique CDR3
7 unique J



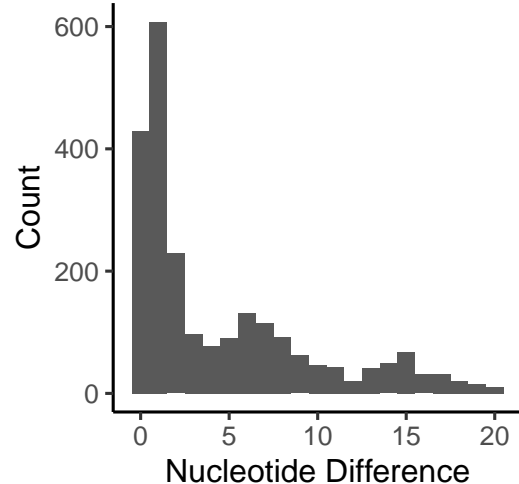
IGHV3-43*01

61 sequences assigned
5 (8.2%) exact matches, in which:
2 unique CDR3
1 unique J



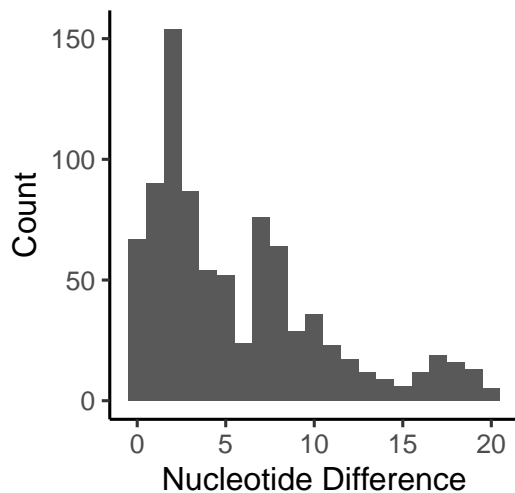
IGHV3-48*03

2427 sequences assigned
429 (17.7%) exact matches, in which:
255 unique CDR3
6 unique J



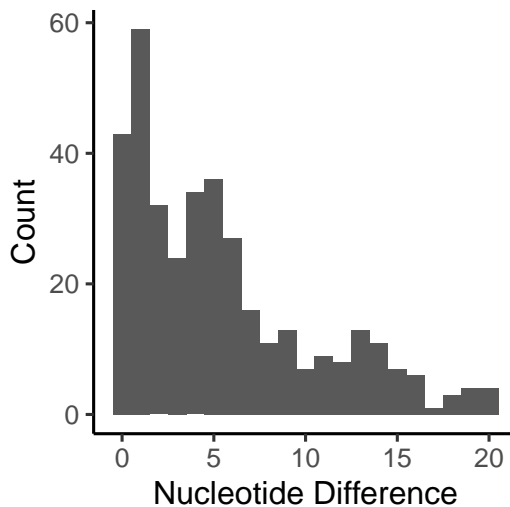
IGHV3-33*06

899 sequences assigned
67 (7.5%) exact matches, in which:
58 unique CDR3
6 unique J



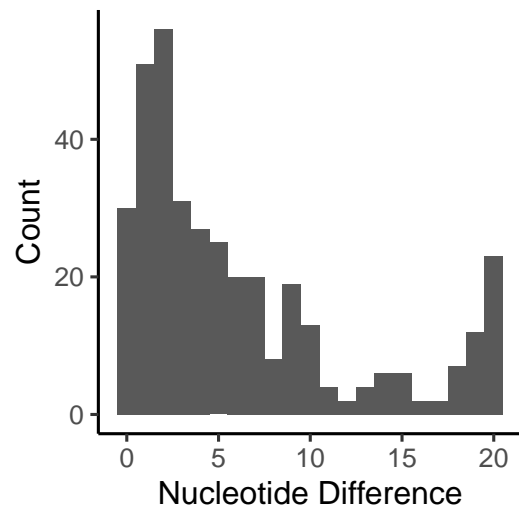
IGHV3-48*01

522 sequences assigned
43 (8.2%) exact matches, in which:
40 unique CDR3
5 unique J



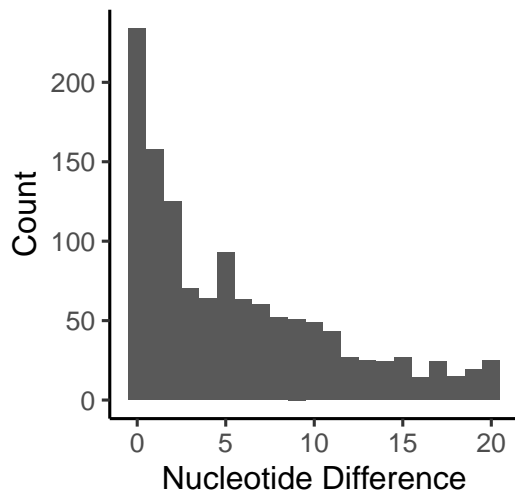
IGHV3-48*04

561 sequences assigned
30 (5.3%) exact matches, in which:
27 unique CDR3
5 unique J



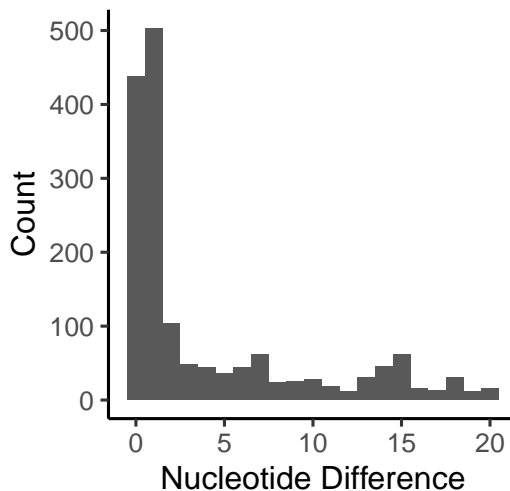
IGHV3-33*08

1391 sequences assigned
234 (16.8%) exact matches, in which:
155 unique CDR3
7 unique J



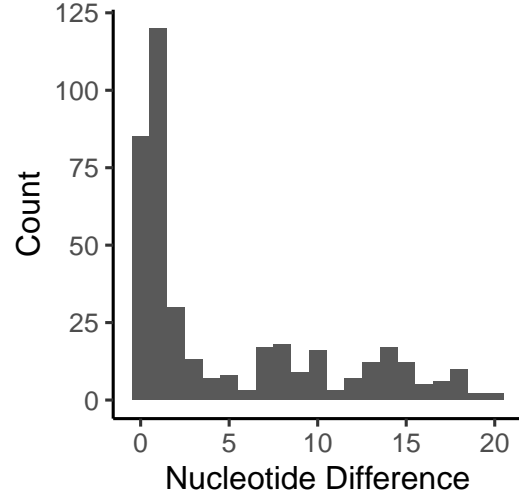
IGHV3-48*02

1650 sequences assigned
438 (26.5%) exact matches, in which:
273 unique CDR3
6 unique J



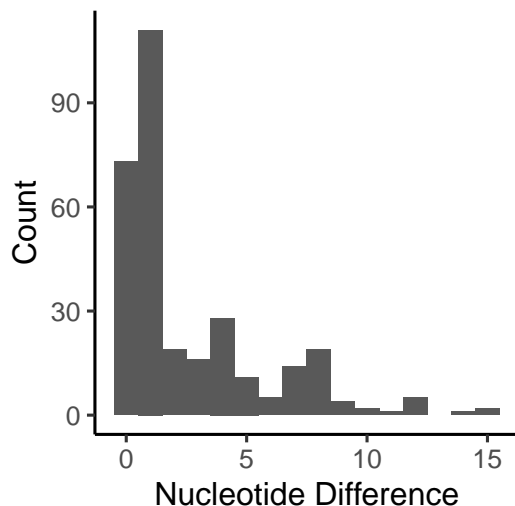
IGHV3-49*04

416 sequences assigned
85 (20.4%) exact matches, in which:
51 unique CDR3
5 unique J



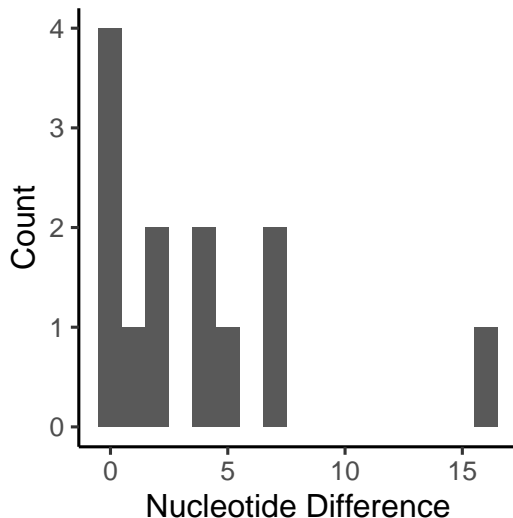
IGHV3-49*03_05

318 sequences assigned
73 (23%) exact matches, in which:
42 unique CDR3
7 unique J



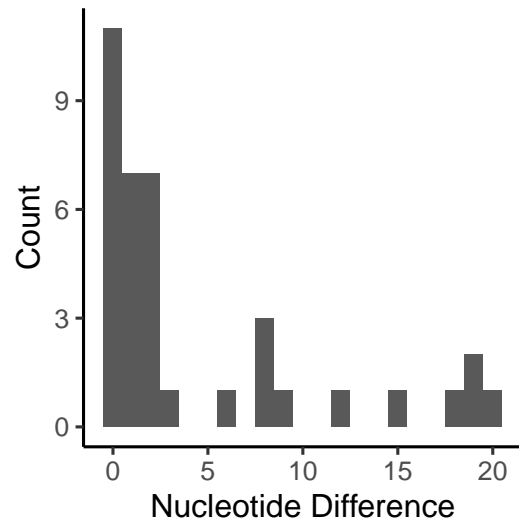
IGHV3-64*02_07

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
2 unique J



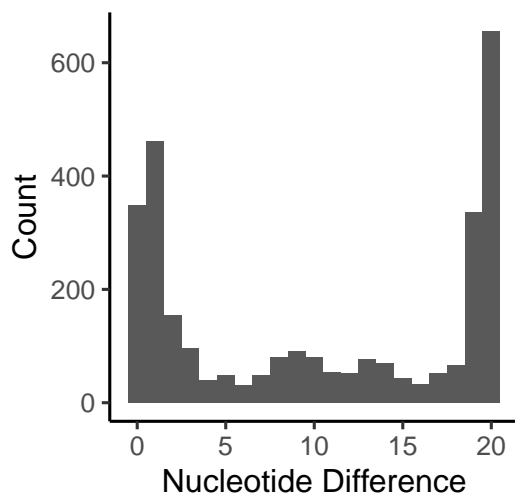
IGHV3-66*03

42 sequences assigned
11 (26.2%) exact matches, in which:
10 unique CDR3
4 unique J



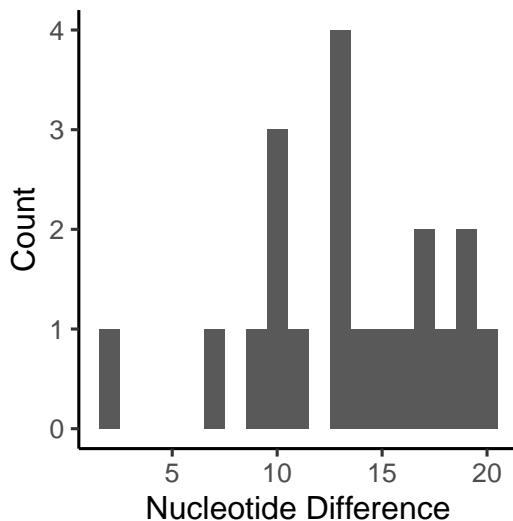
IGHV3-53*01_02

4327 sequences assigned
349 (8.1%) exact matches, in which:
230 unique CDR3
7 unique J



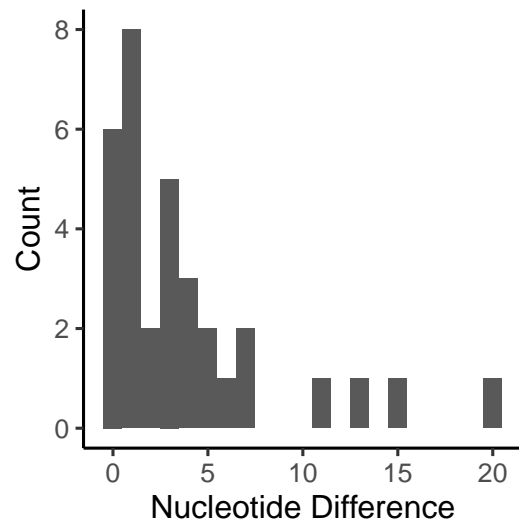
IGHV3-66*01

24 sequences assigned
No exact matches.



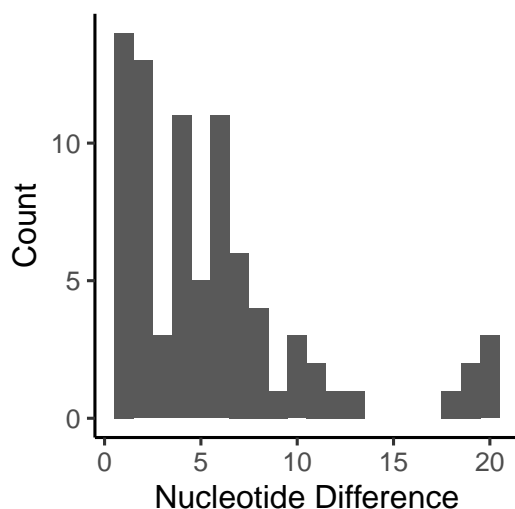
IGHV3-69-1*01

35 sequences assigned
6 (17.1%) exact matches, in which:
6 unique CDR3
3 unique J



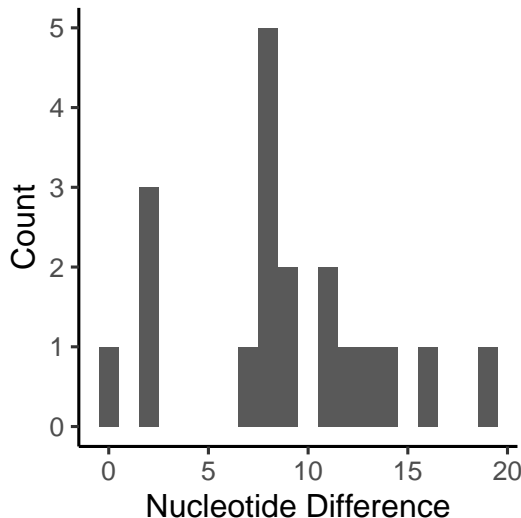
IGHV3-64*04

87 sequences assigned
No exact matches.



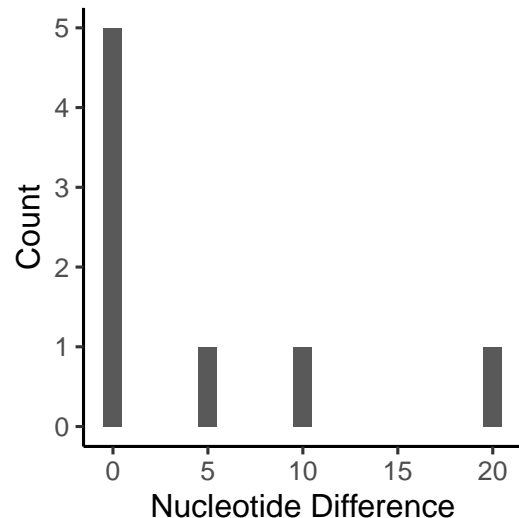
IGHV3-66*02

24 sequences assigned
1 (4.2%) exact matches, in which:
1 unique CDR3
1 unique J



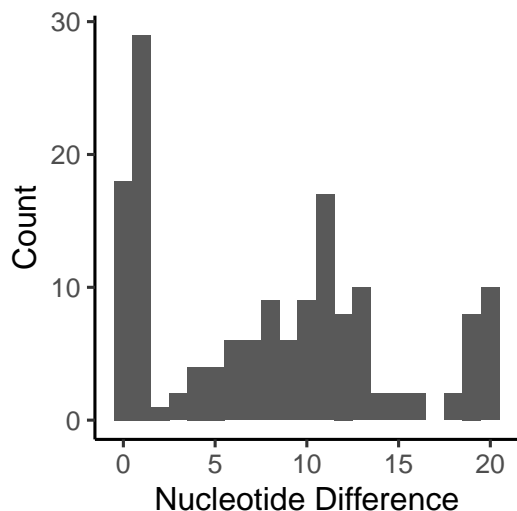
IGHV3-69-1*02

10 sequences assigned
5 (50%) exact matches, in which:
5 unique CDR3
2 unique J



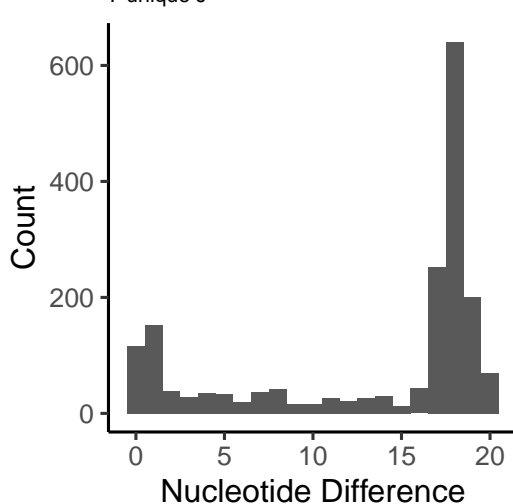
IGHV3-72*01

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



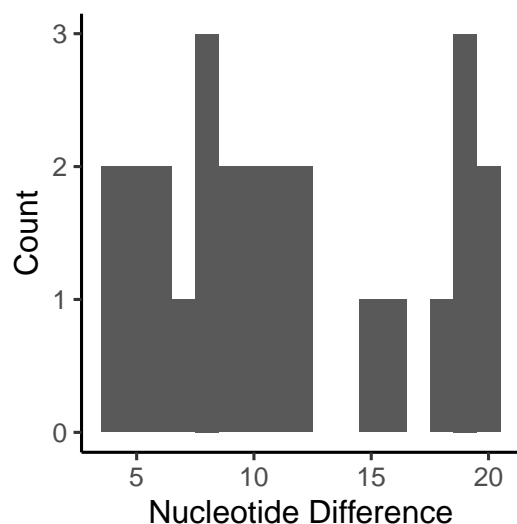
IGHV3-74*01_02

2100 sequences assigned
116 (5.5%) exact matches, in which:
81 unique CDR3
7 unique J



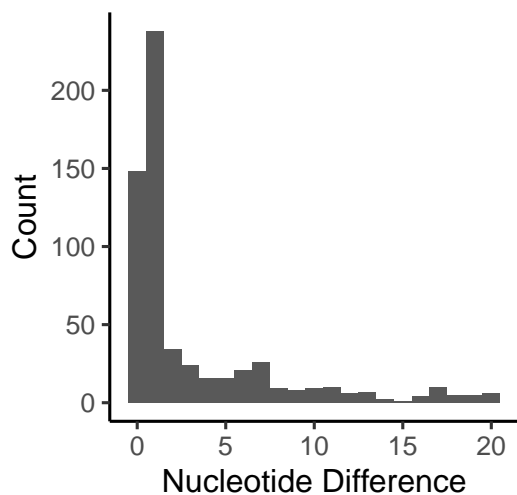
IGHV3-NL1*01

57 sequences assigned
No exact matches.



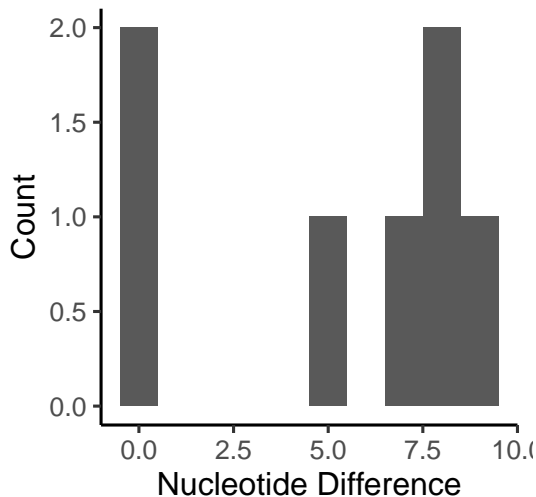
IGHV3-73*01_02

709 sequences assigned
148 (20.9%) exact matches, in which:
95 unique CDR3
7 unique J



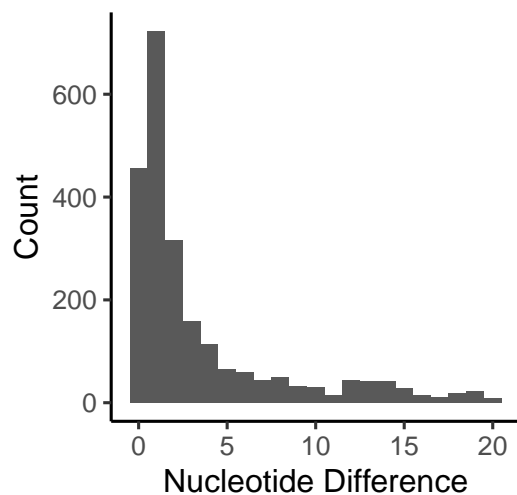
IGHV3-43D*04

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



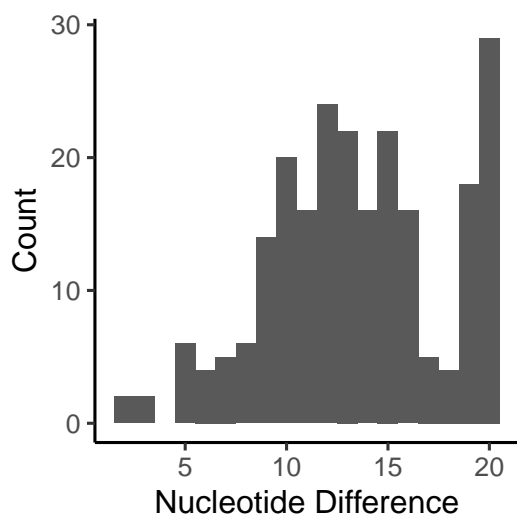
IGHV4-4*02_03

2369 sequences assigned
456 (19.2%) exact matches, in which:
327 unique CDR3
7 unique J



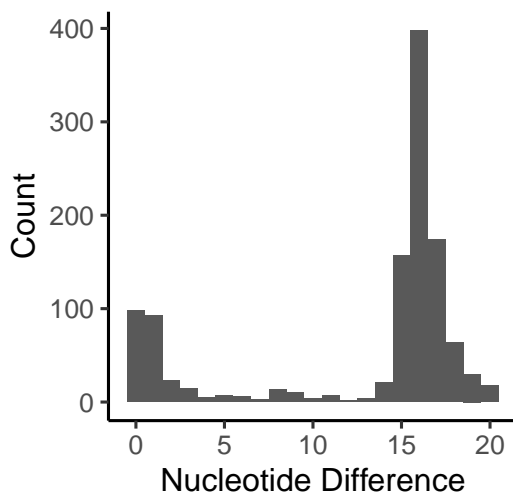
IGHV3-74*03

365 sequences assigned
No exact matches.



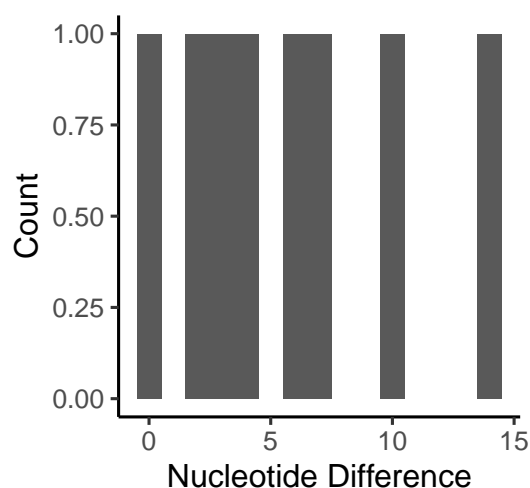
IGHV3-64D*08

1235 sequences assigned
98 (7.9%) exact matches, in which:
61 unique CDR3
6 unique J



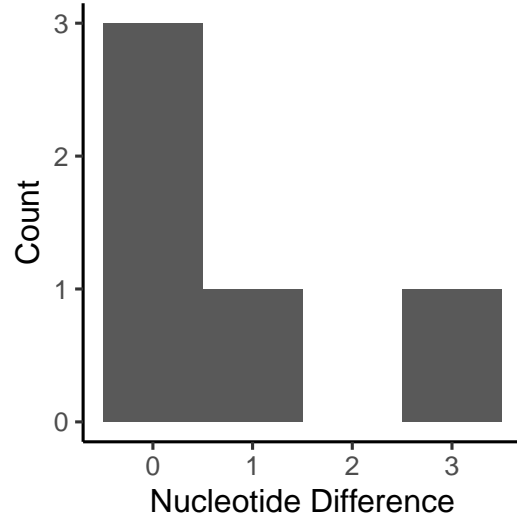
IGHV4-28*03

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



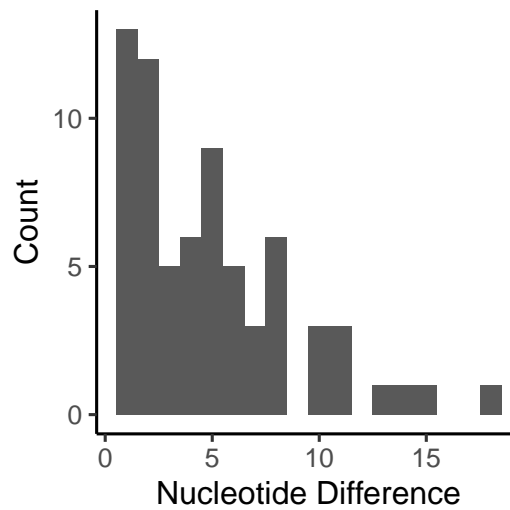
IGHV4-28*01_07

5 sequences assigned
3 (60%) exact matches, in which:
2 unique CDR3
1 unique J



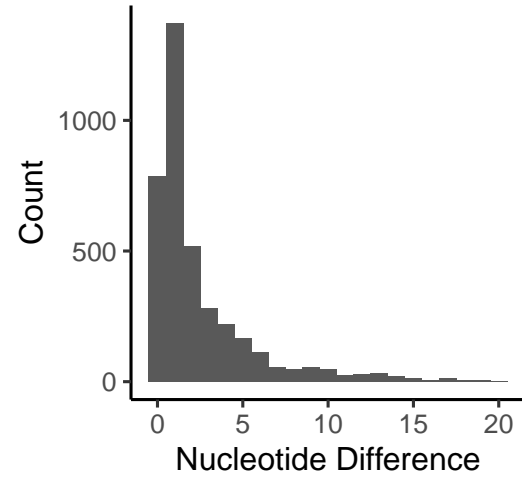
IGHV4-30-2*03

73 sequences assigned
No exact matches.



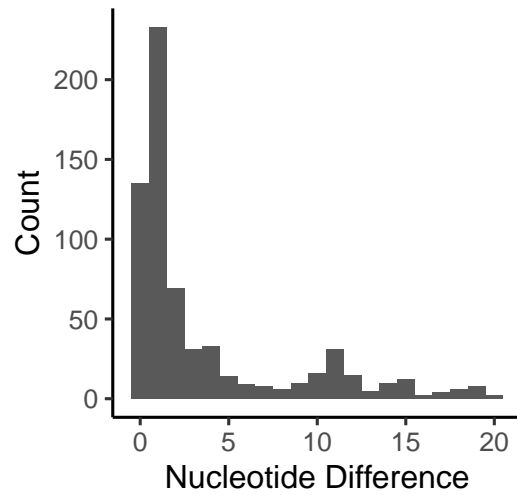
IGHV4-34*01_02

4230 sequences assigned
788 (18.6%) exact matches, in which:
498 unique CDR3
7 unique J



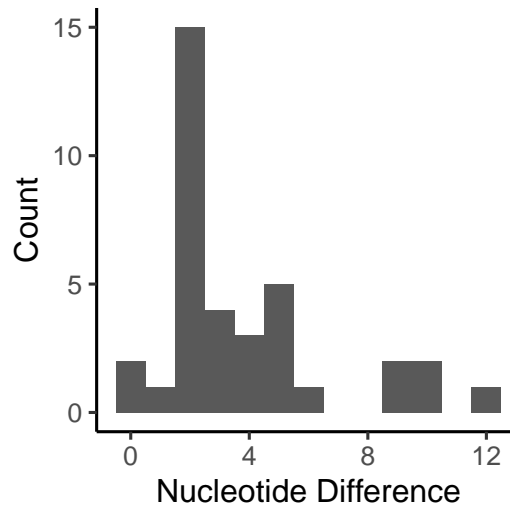
IGHV4-30-2*01

669 sequences assigned
135 (20.2%) exact matches, in which:
66 unique CDR3
6 unique J



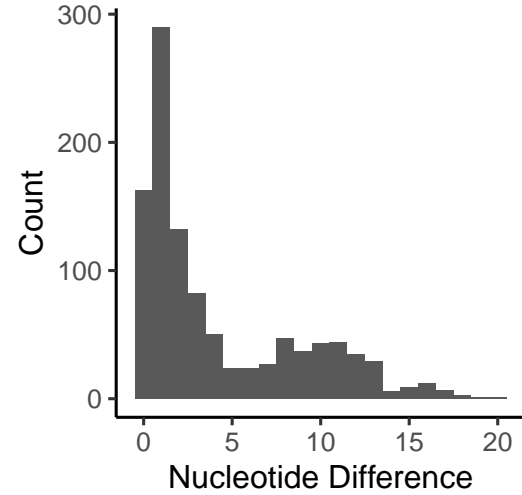
IGHV4-30-2*05

37 sequences assigned
2 (5.4%) exact matches, in which:
2 unique CDR3
2 unique J



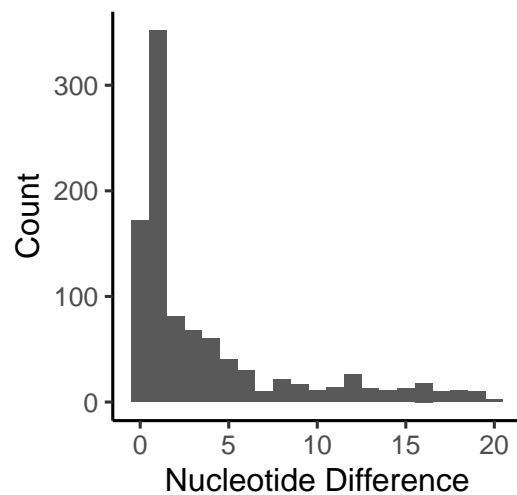
IGHV4-38-2*01

1702 sequences assigned
163 (9.6%) exact matches, in which:
116 unique CDR3
5 unique J



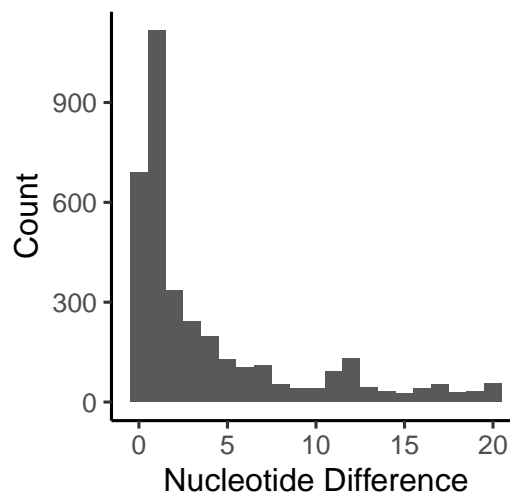
IGHV4-30-4*01

1055 sequences assigned
172 (16.3%) exact matches, in which:
113 unique CDR3
6 unique J



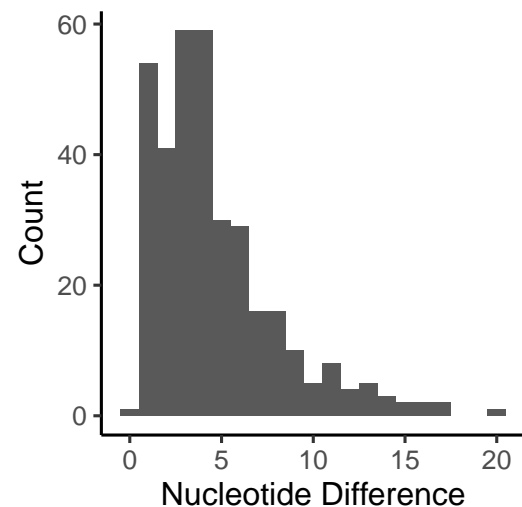
IGHV4-31*02

4040 sequences assigned
689 (17.1%) exact matches, in which:
499 unique CDR3
7 unique J



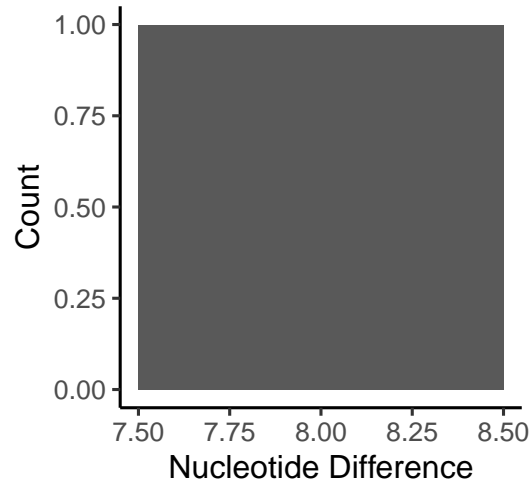
IGHV4-39*07

849 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



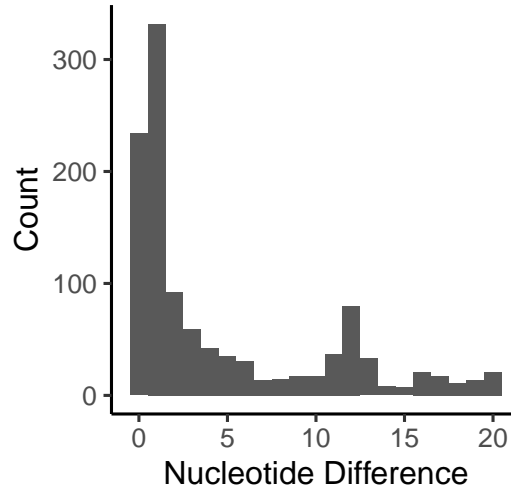
IGHV4–55*09

1 sequences assigned
No exact matches.



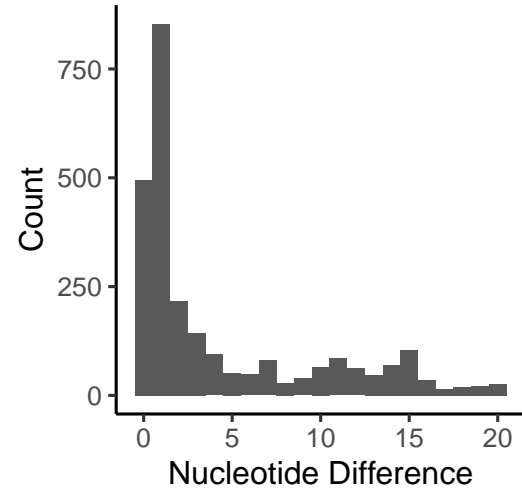
IGHV4–61*01

1645 sequences assigned
234 (14.2%) exact matches, in which:
180 unique CDR3
6 unique J



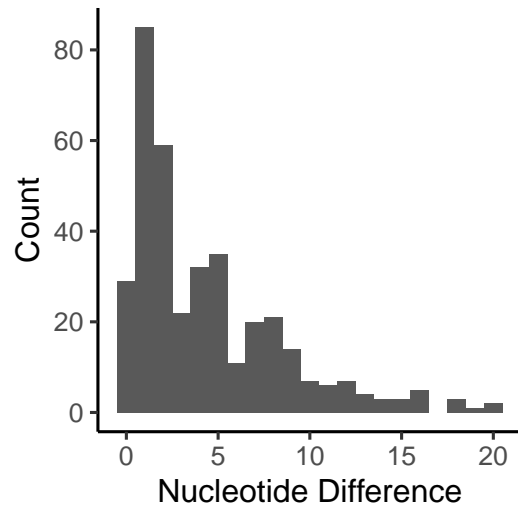
IGHV5–10–1*01_03

2748 sequences assigned
495 (18%) exact matches, in which:
286 unique CDR3
7 unique J



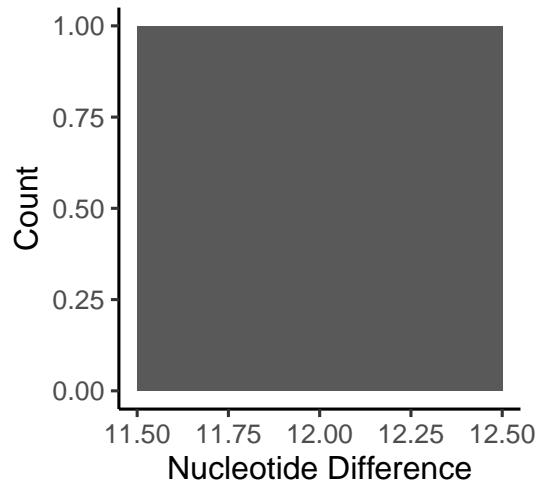
IGHV4–59*08

400 sequences assigned
29 (7.2%) exact matches, in which:
27 unique CDR3
4 unique J



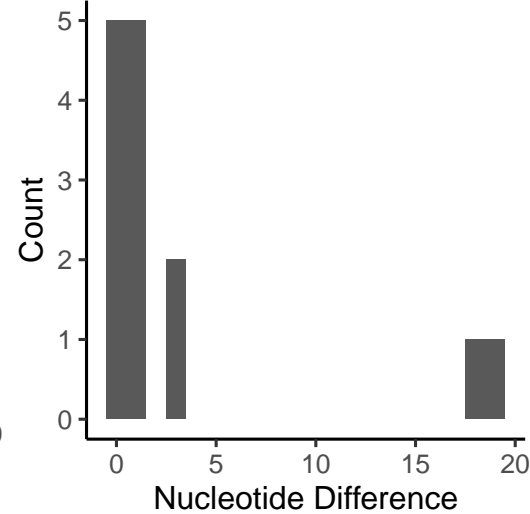
IGHV1/OR15–3*02

1 sequences assigned
No exact matches.



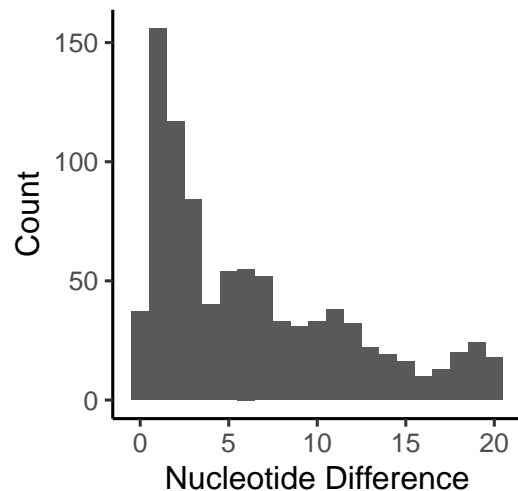
IGHV5–51*04

14 sequences assigned
5 (35.7%) exact matches, in which:
5 unique CDR3
2 unique J



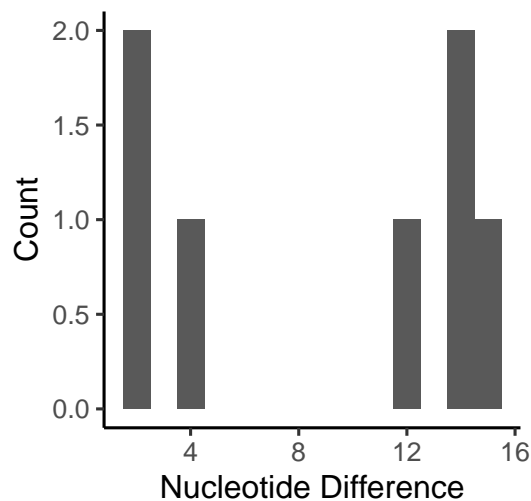
IGHV4–59*12

1260 sequences assigned
37 (2.9%) exact matches, in which:
37 unique CDR3
7 unique J



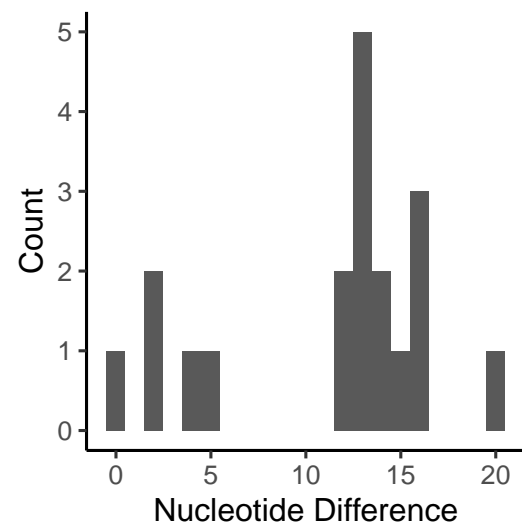
IGHV4/OR15–8*01

12 sequences assigned
No exact matches.



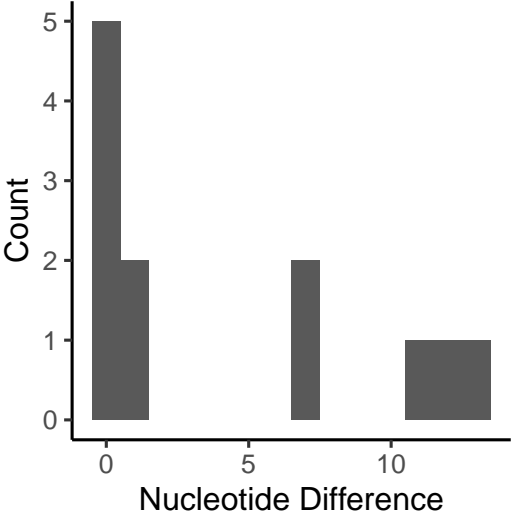
IGHV5–51*06

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



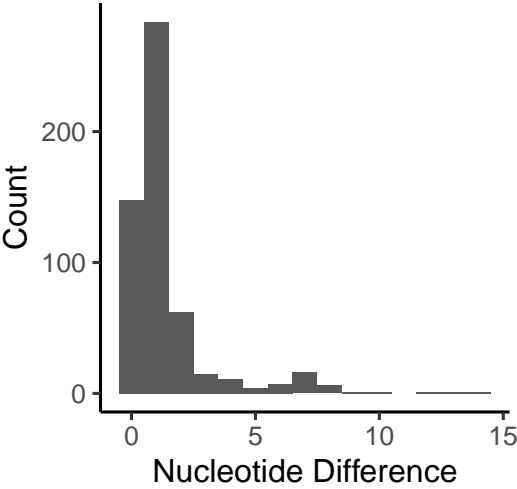
IGHV5-51*07

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
3 unique J



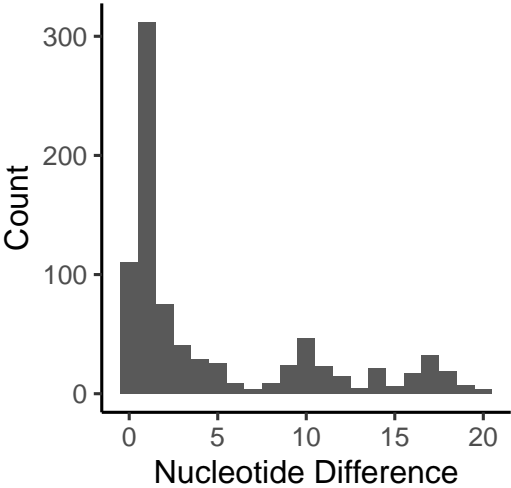
IGHV7-4-1*01

558 sequences assigned
148 (26.5%) exact matches, in which:
109 unique CDR3
5 unique J



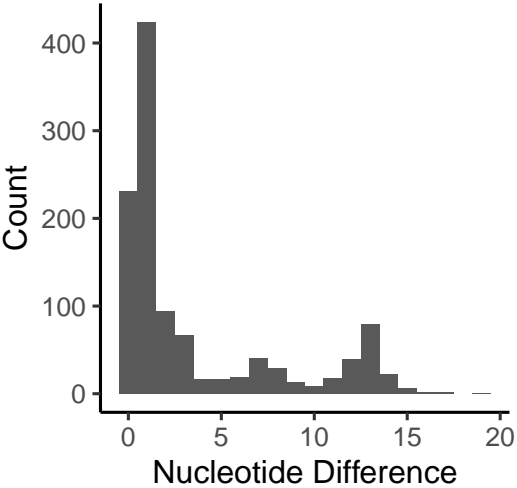
IGHV6-1*01_02

915 sequences assigned
110 (12%) exact matches, in which:
75 unique CDR3
5 unique J



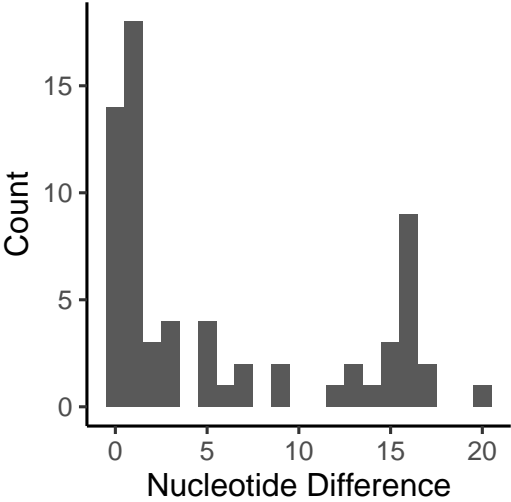
IGHV7-4-1*02

1183 sequences assigned
231 (19.5%) exact matches, in which:
145 unique CDR3
6 unique J



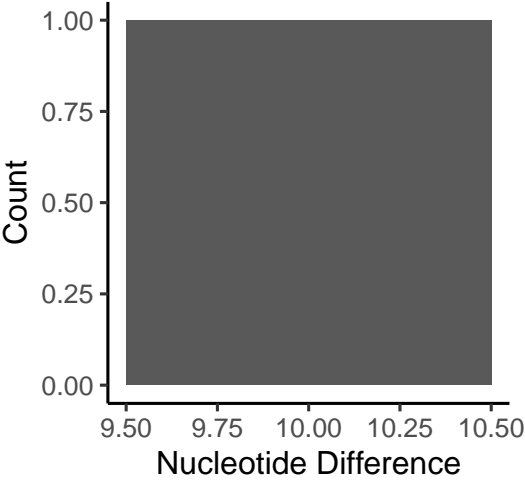
IGHV6-1*01_02_A315G

67 sequences assigned
14 (20.9%) exact matches, in which:
14 unique CDR3
4 unique J

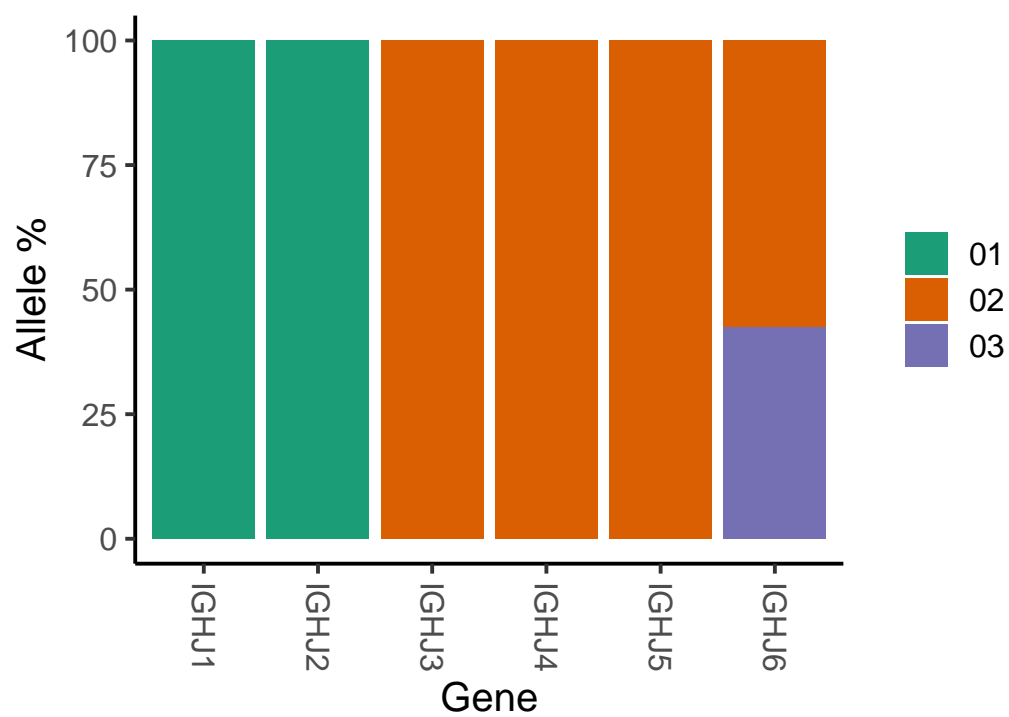


IGHV7-81*01

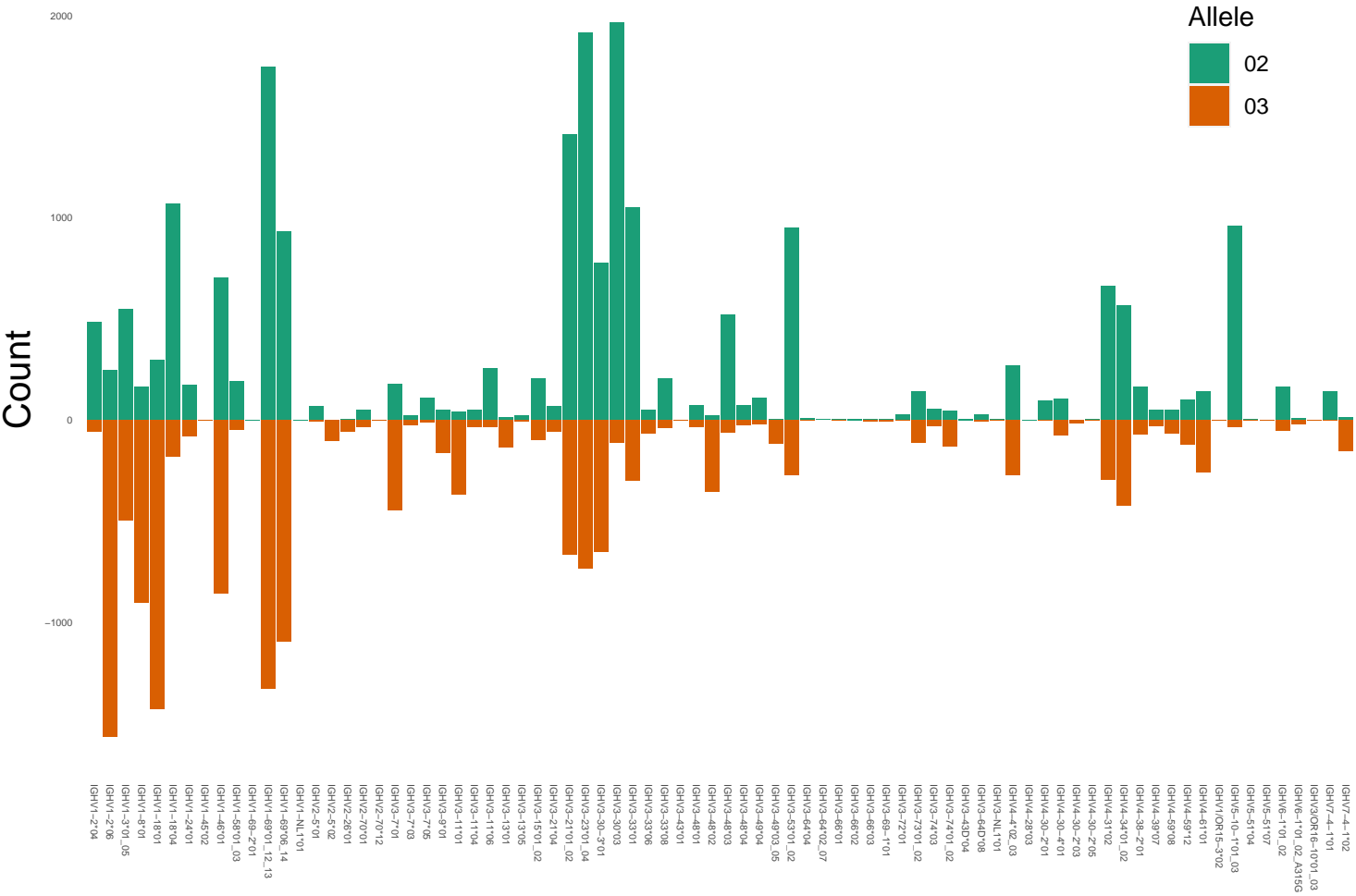
1 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.