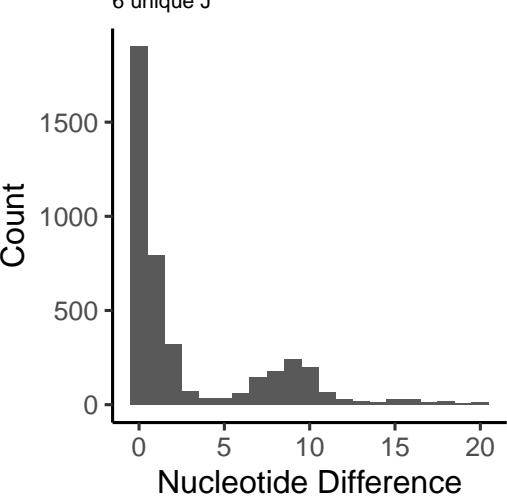


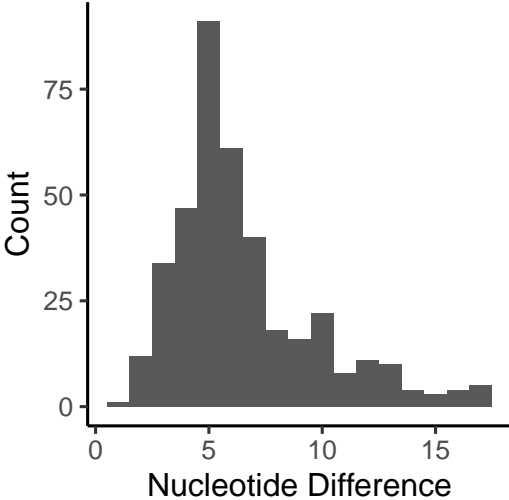
IGHV1-2*04

4255 sequences assigned
1902 (44.7%) exact matches, in which:
1840 unique CDR3
6 unique J



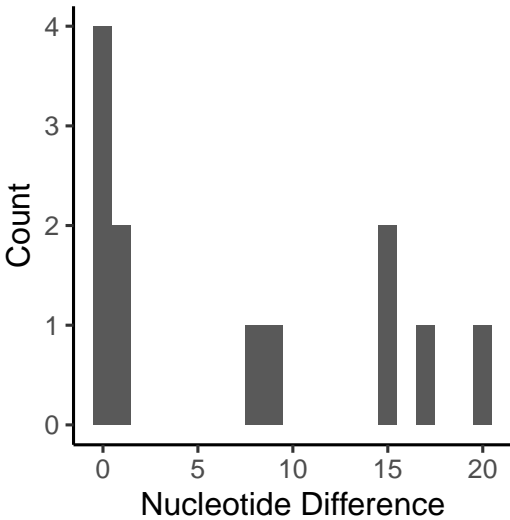
IGHV1-8*02

394 sequences assigned
No exact matches.



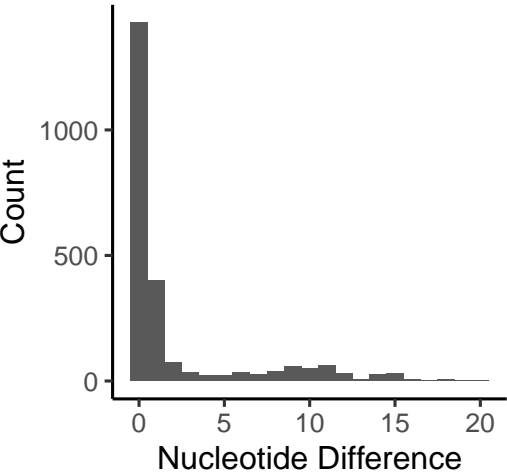
IGHV1-45*02

12 sequences assigned
4 (33.3%) exact matches, in which:
4 unique CDR3
3 unique J



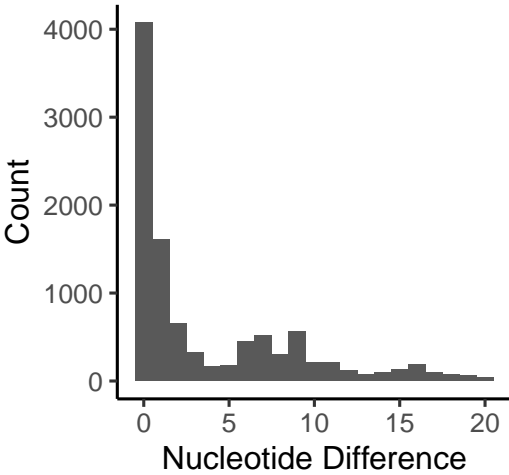
IGHV1-3*01_05

2368 sequences assigned
1427 (60.3%) exact matches, in which:
1350 unique CDR3
6 unique J



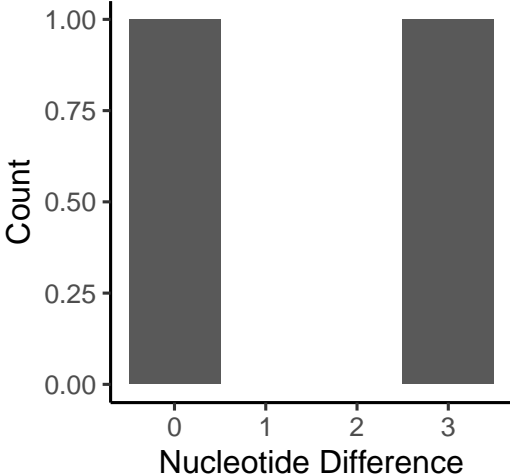
IGHV1-18*01

10679 sequences assigned
4074 (38.1%) exact matches, in which:
3943 unique CDR3
6 unique J



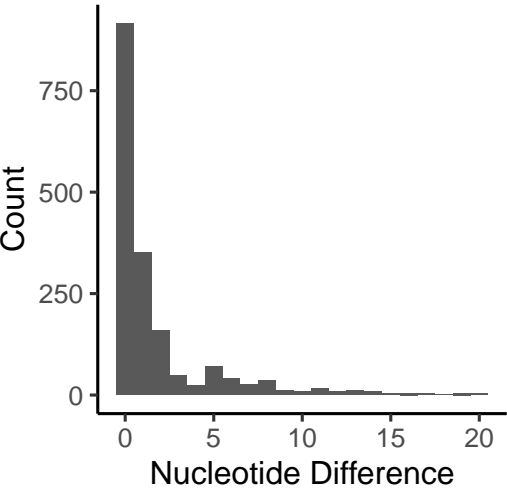
IGHV1-45*03

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



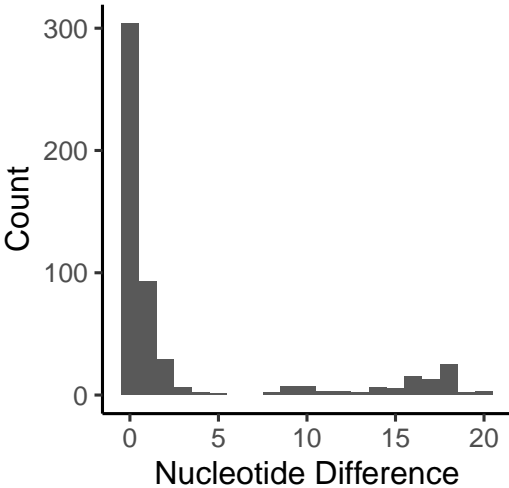
IGHV1-8*01

1782 sequences assigned
916 (51.4%) exact matches, in which:
895 unique CDR3
6 unique J



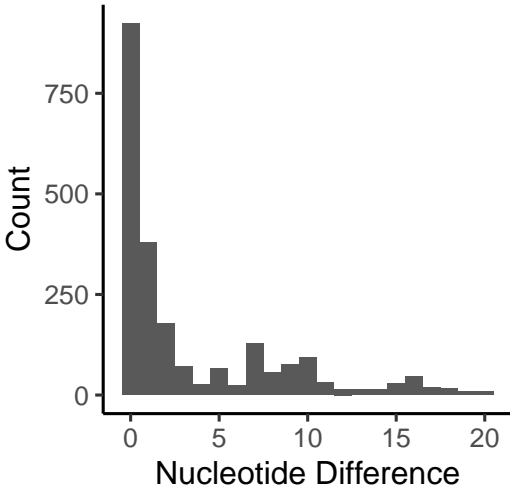
IGHV1-24*01

562 sequences assigned
304 (54.1%) exact matches, in which:
297 unique CDR3
6 unique J



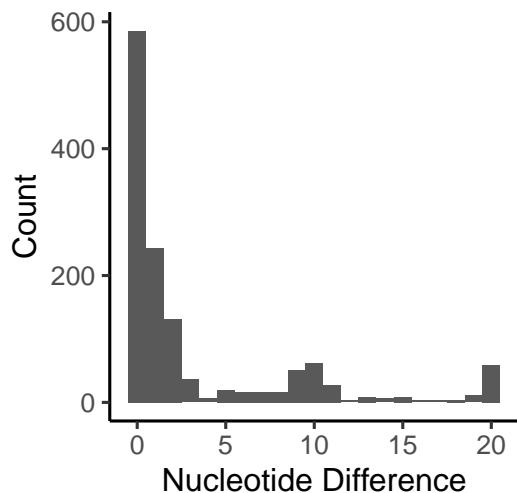
IGHV1-46*01

2249 sequences assigned
924 (41.1%) exact matches, in which:
905 unique CDR3
6 unique J



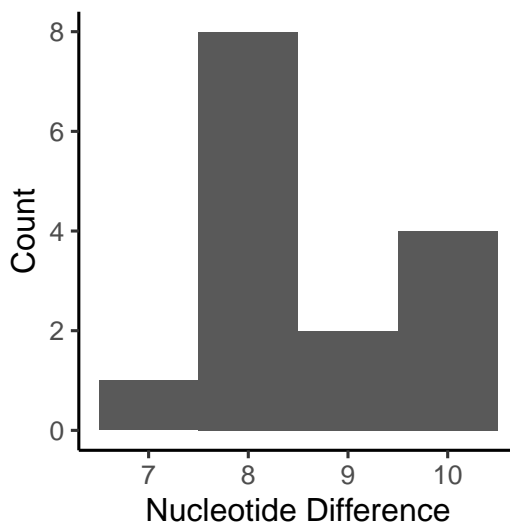
IGHV1-46*03

1578 sequences assigned
586 (37.1%) exact matches, in which:
559 unique CDR3
6 unique J



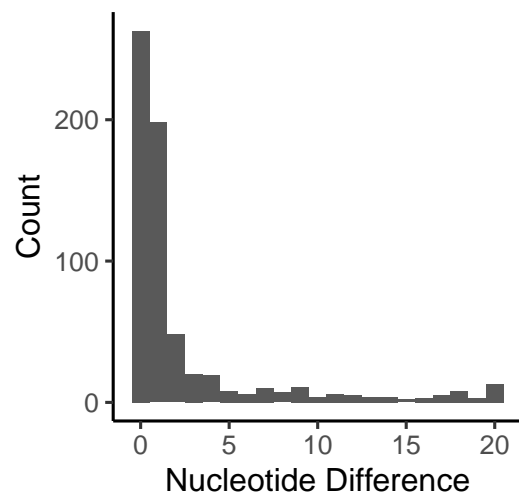
IGHV1-NL1*01

15 sequences assigned
No exact matches.



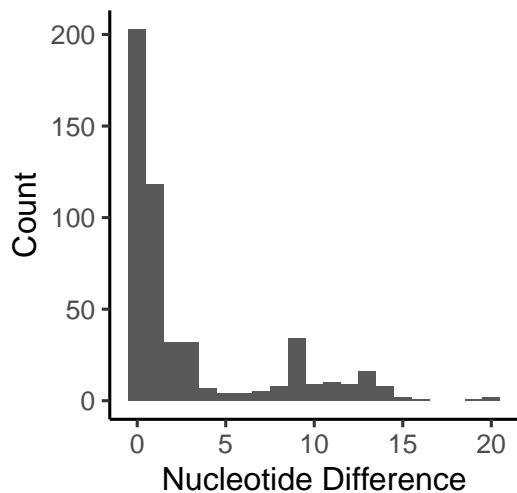
IGHV2-70*11_15

680 sequences assigned
263 (38.7%) exact matches, in which:
243 unique CDR3
6 unique J



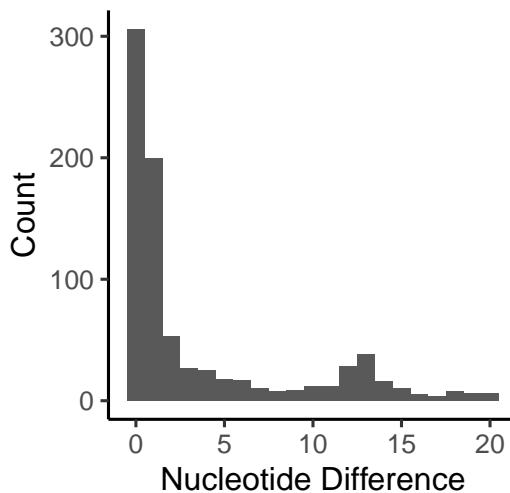
IGHV1-58*02

508 sequences assigned
203 (40%) exact matches, in which:
201 unique CDR3
5 unique J



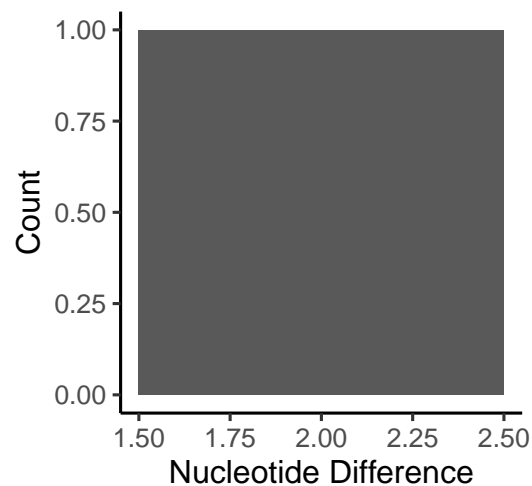
IGHV2-5*02

841 sequences assigned
306 (36.4%) exact matches, in which:
289 unique CDR3
6 unique J



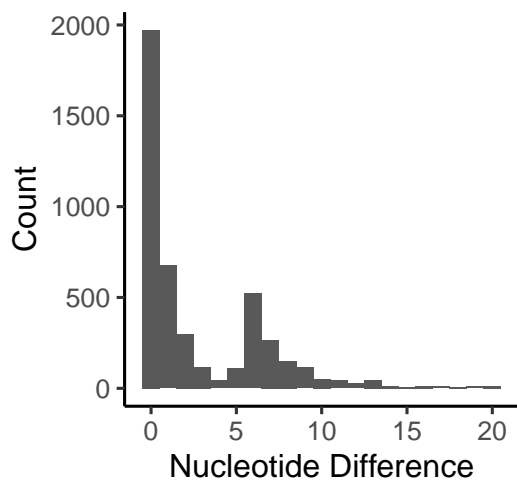
IGHV2-70D*14

1 sequences assigned
No exact matches.



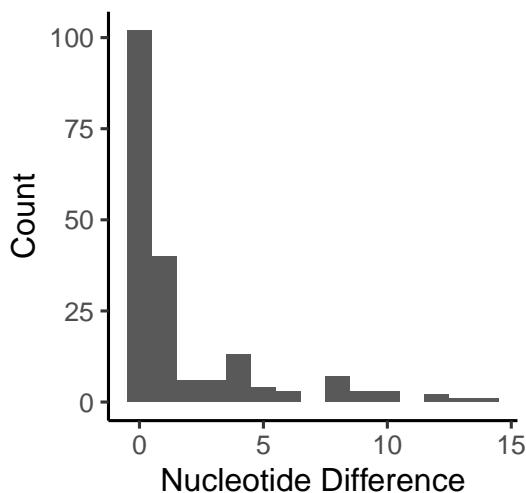
IGHV1-69*04_09

4622 sequences assigned
1972 (42.7%) exact matches, in which:
1942 unique CDR3
6 unique J



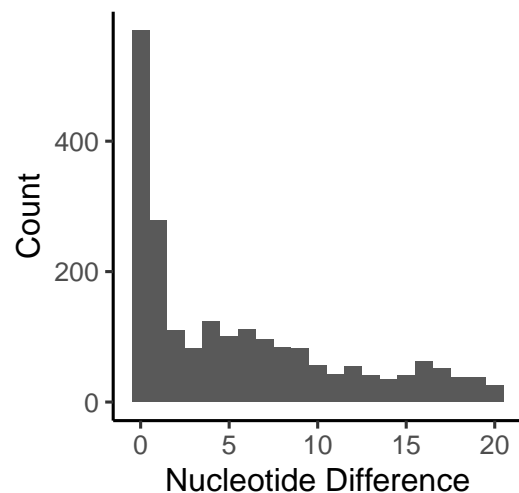
IGHV2-26*01

192 sequences assigned
102 (53.1%) exact matches, in which:
92 unique CDR3
5 unique J



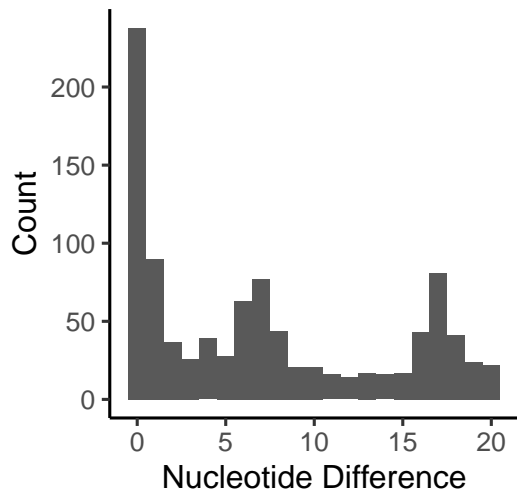
IGHV3-7*01

2266 sequences assigned
570 (25.2%) exact matches, in which:
498 unique CDR3
6 unique J



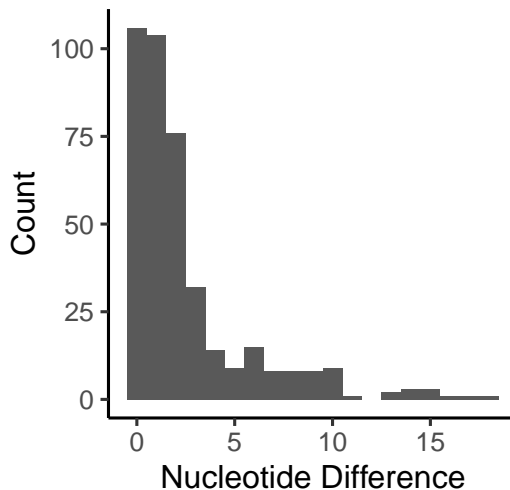
IGHV3-7*04

1031 sequences assigned
238 (23.1%) exact matches, in which:
197 unique CDR3
5 unique J



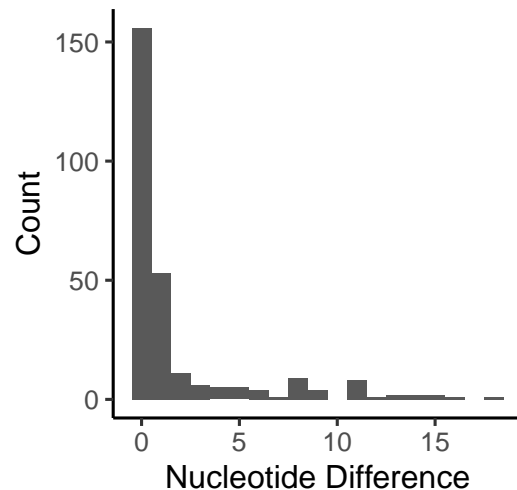
IGHV3-11*04

406 sequences assigned
106 (26.1%) exact matches, in which:
106 unique CDR3
6 unique J



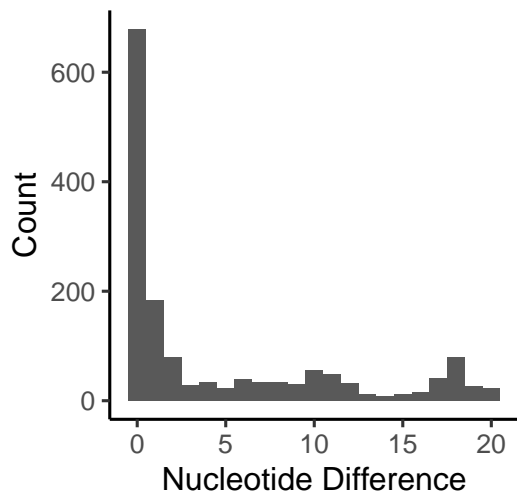
IGHV3-13*04

311 sequences assigned
156 (50.2%) exact matches, in which:
128 unique CDR3
5 unique J



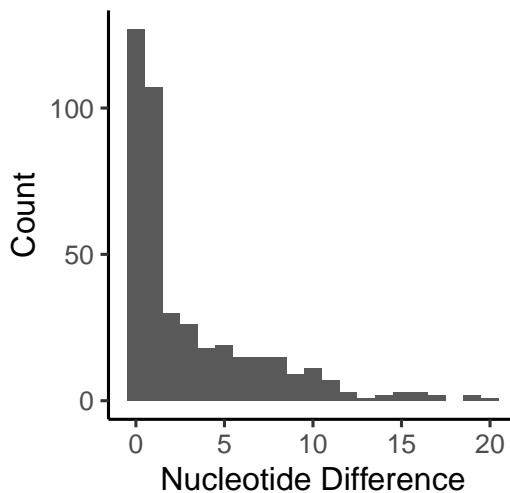
IGHV3-9*01

1872 sequences assigned
679 (36.3%) exact matches, in which:
591 unique CDR3
6 unique J



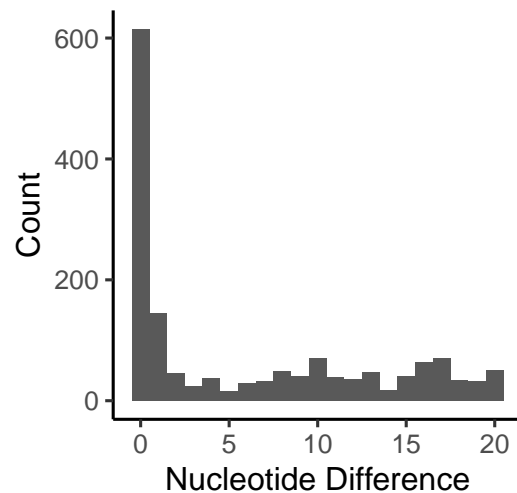
IGHV3-11*06

459 sequences assigned
127 (27.7%) exact matches, in which:
125 unique CDR3
5 unique J



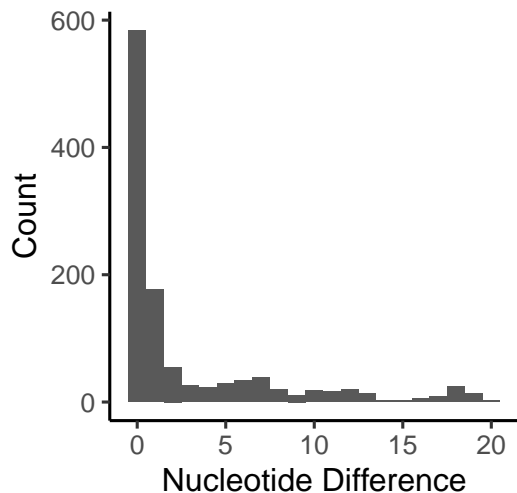
IGHV3-15*01_02

1844 sequences assigned
615 (33.4%) exact matches, in which:
540 unique CDR3
6 unique J



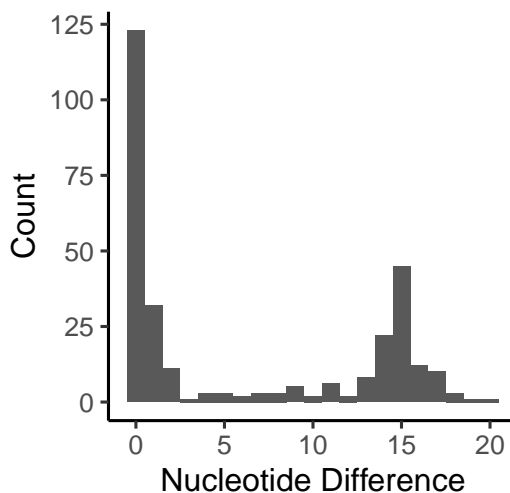
IGHV3-11*01

1210 sequences assigned
584 (48.3%) exact matches, in which:
500 unique CDR3
6 unique J



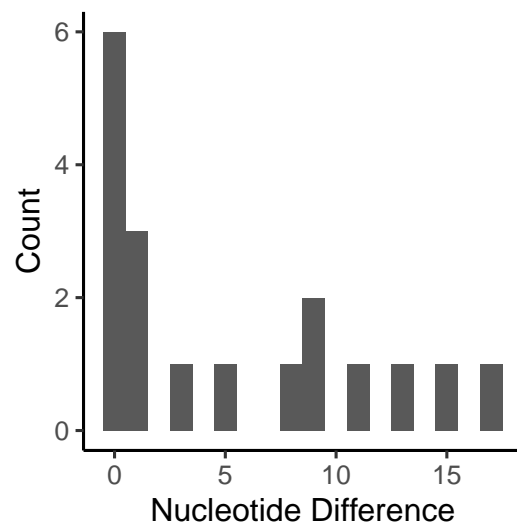
IGHV3-13*01

335 sequences assigned
123 (36.7%) exact matches, in which:
99 unique CDR3
5 unique J



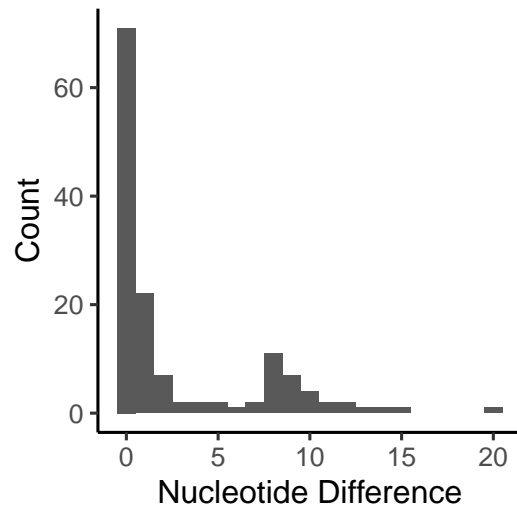
IGHV3-19*01

18 sequences assigned
6 (33.3%) exact matches, in which:
4 unique CDR3
2 unique J



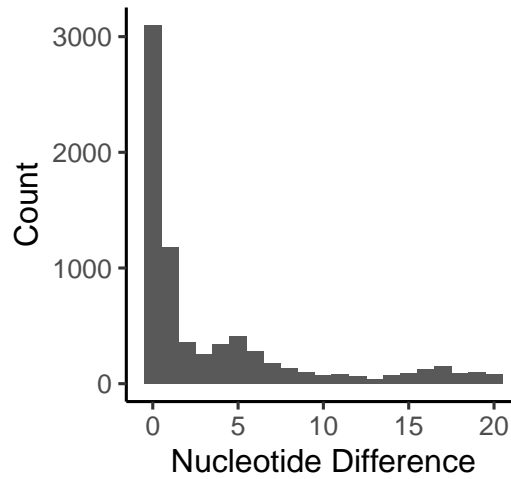
IGHV3-20*01_02

139 sequences assigned
71 (51.1%) exact matches, in which:
59 unique CDR3
5 unique J



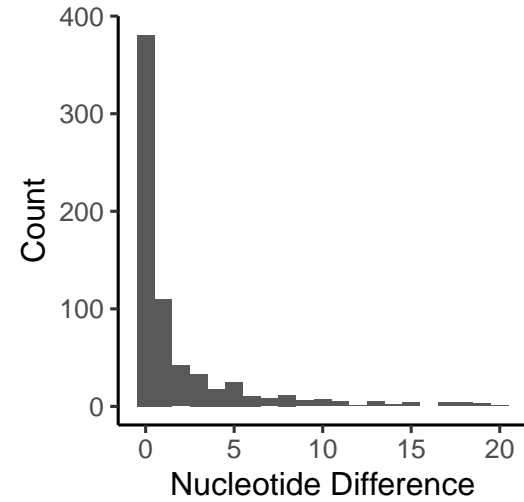
IGHV3-21*01_02

8012 sequences assigned
3097 (38.7%) exact matches, in which:
2618 unique CDR3
6 unique J



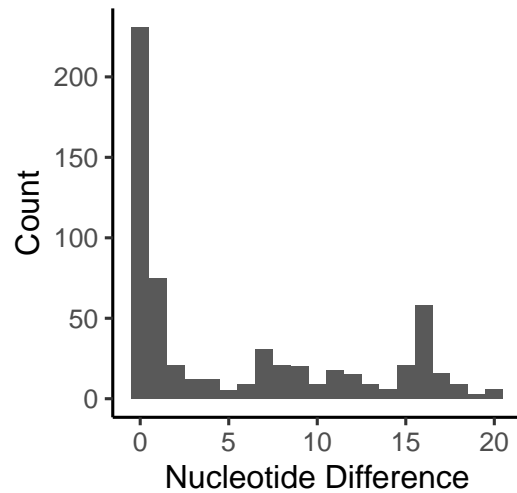
IGHV3-30*03

714 sequences assigned
381 (53.4%) exact matches, in which:
371 unique CDR3
6 unique J



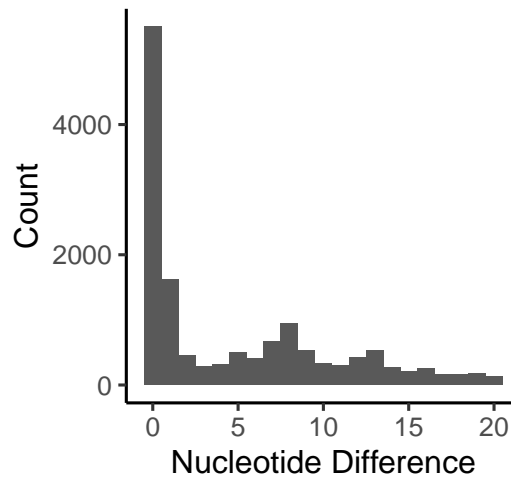
IGHV3-20*03_04

683 sequences assigned
231 (33.8%) exact matches, in which:
204 unique CDR3
6 unique J



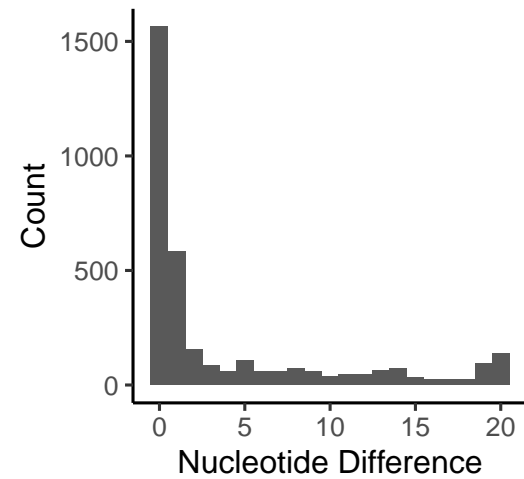
IGHV3-23*01_04

14917 sequences assigned
5502 (36.9%) exact matches, in which:
4645 unique CDR3
6 unique J



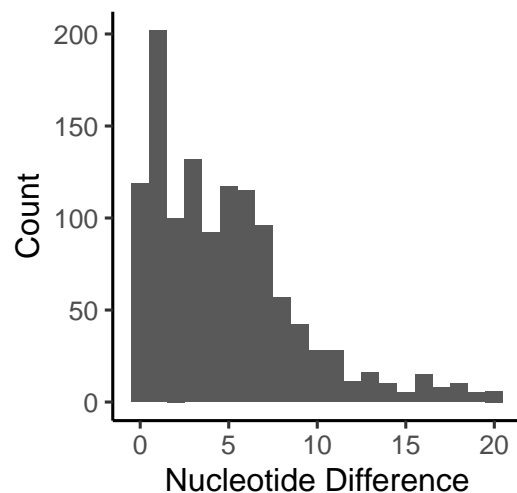
IGHV3-30*18

3599 sequences assigned
1564 (43.5%) exact matches, in which:
1339 unique CDR3
6 unique J



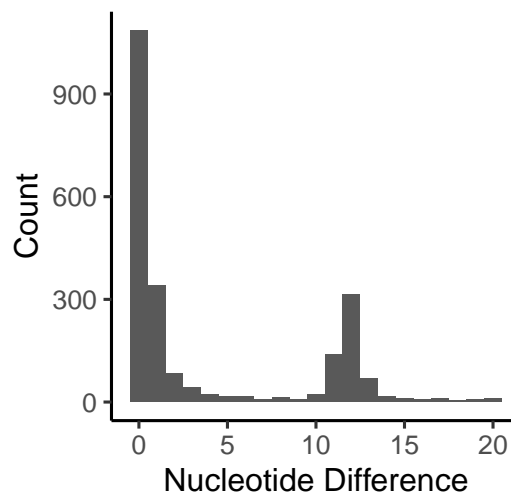
IGHV3-21*04

1265 sequences assigned
119 (9.4%) exact matches, in which:
116 unique CDR3
5 unique J



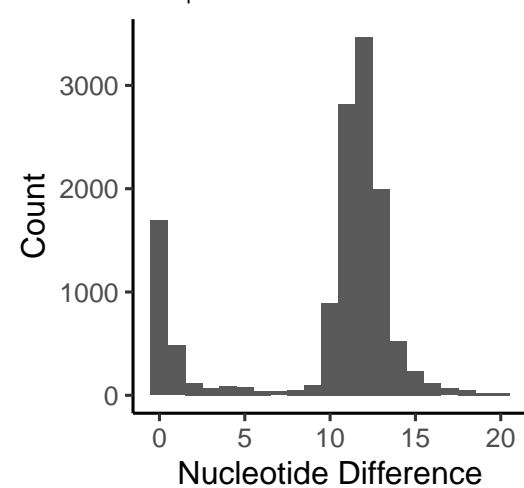
IGHV3-30-3*01

2415 sequences assigned
1086 (45%) exact matches, in which:
956 unique CDR3
6 unique J



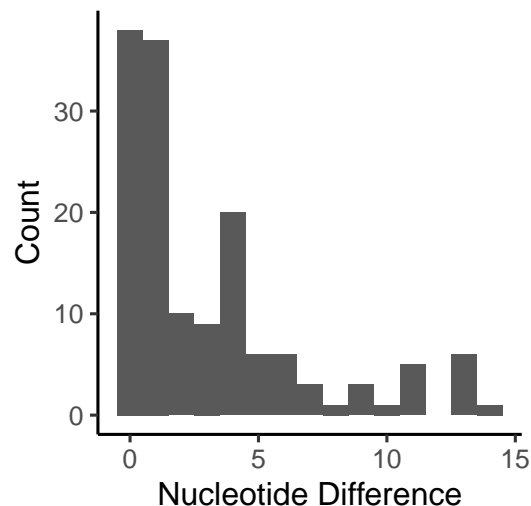
IGHV3-33*01

13076 sequences assigned
1692 (12.9%) exact matches, in which:
1513 unique CDR3
6 unique J



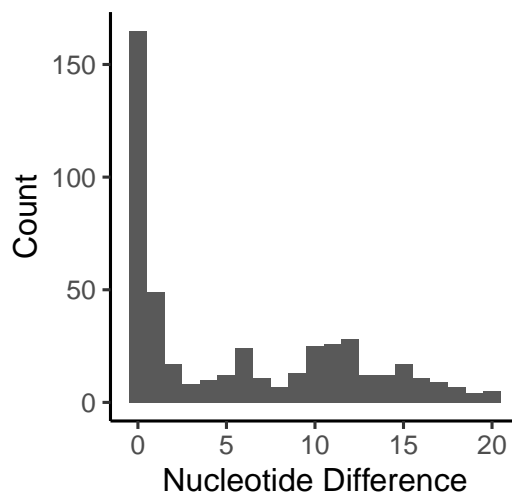
IGHV3-33*05

154 sequences assigned
38 (24.7%) exact matches, in which:
38 unique CDR3
5 unique J



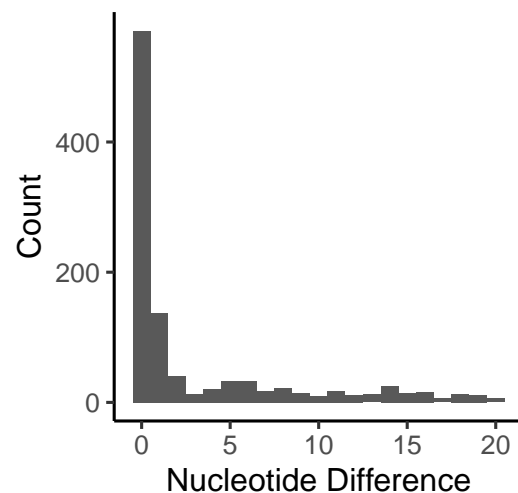
IGHV3-43*02

485 sequences assigned
165 (34%) exact matches, in which:
143 unique CDR3
5 unique J



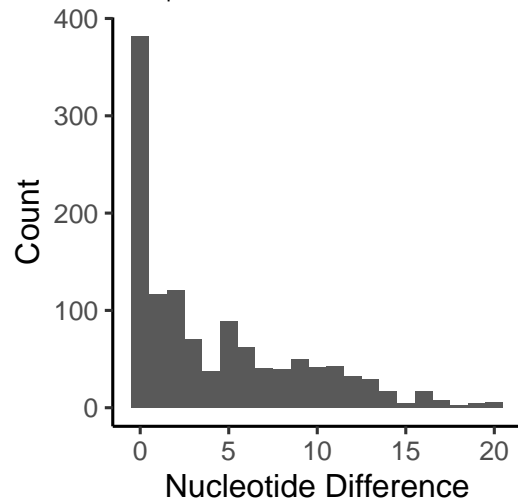
IGHV3-48*03

1089 sequences assigned
571 (52.4%) exact matches, in which:
487 unique CDR3
6 unique J



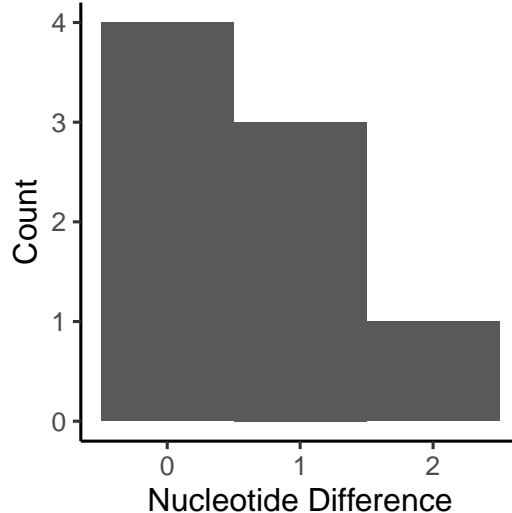
IGHV3-33*08

1232 sequences assigned
382 (31%) exact matches, in which:
370 unique CDR3
6 unique J



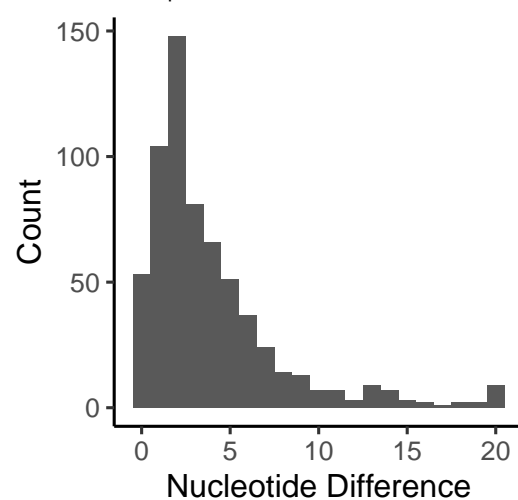
IGHV3-47*02

8 sequences assigned
4 (50%) exact matches, in which:
4 unique CDR3
2 unique J



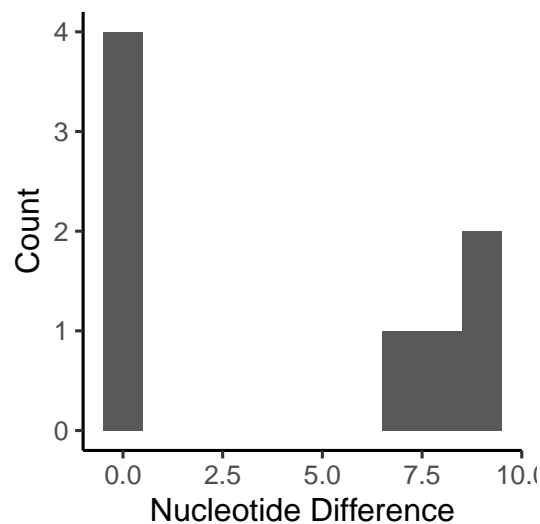
IGHV3-48*04

667 sequences assigned
53 (7.9%) exact matches, in which:
52 unique CDR3
5 unique J



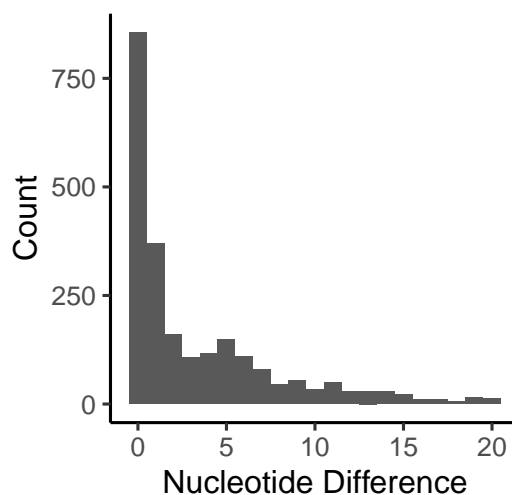
IGHV3-35*01

8 sequences assigned
4 (50%) exact matches, in which:
4 unique CDR3
2 unique J



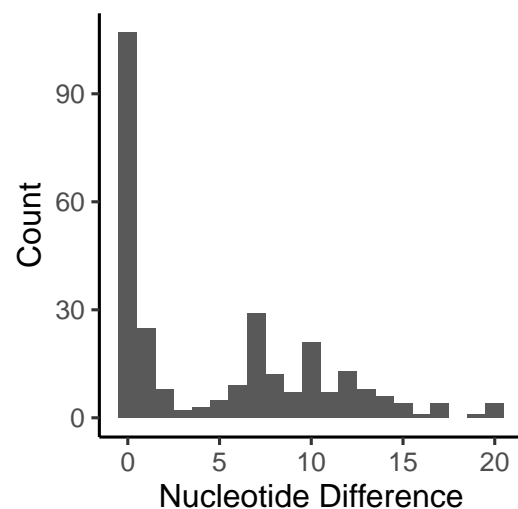
IGHV3-48*01

2488 sequences assigned
856 (34.4%) exact matches, in which:
749 unique CDR3
6 unique J



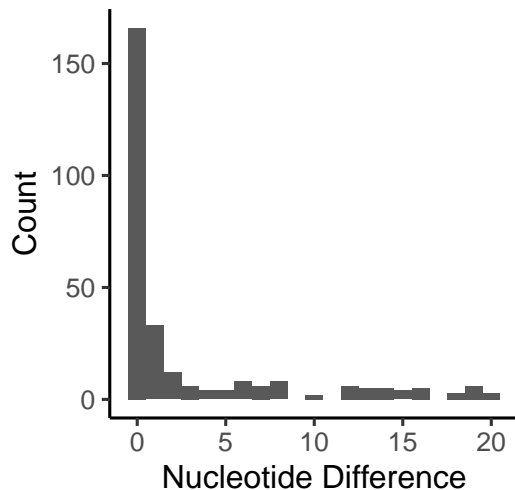
IGHV3-49*04

314 sequences assigned
107 (34.1%) exact matches, in which:
97 unique CDR3
5 unique J



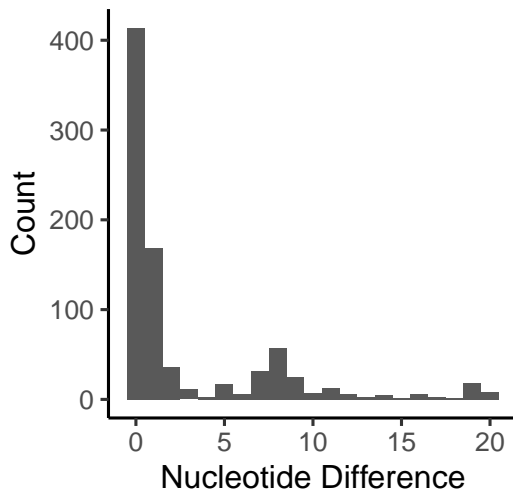
IGHV3-49*03_05

344 sequences assigned
166 (48.3%) exact matches, in which:
148 unique CDR3
6 unique J



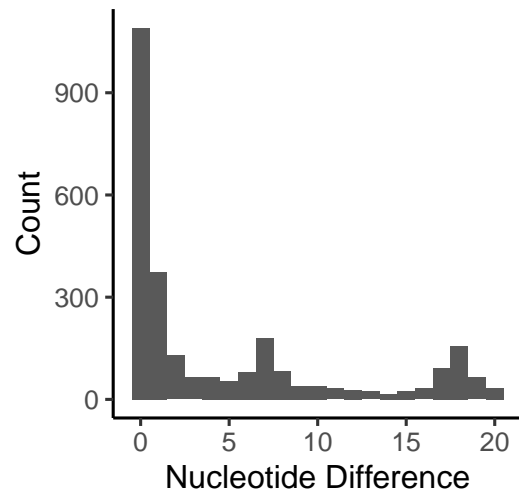
IGHV3-53*04

997 sequences assigned
414 (41.5%) exact matches, in which:
370 unique CDR3
6 unique J



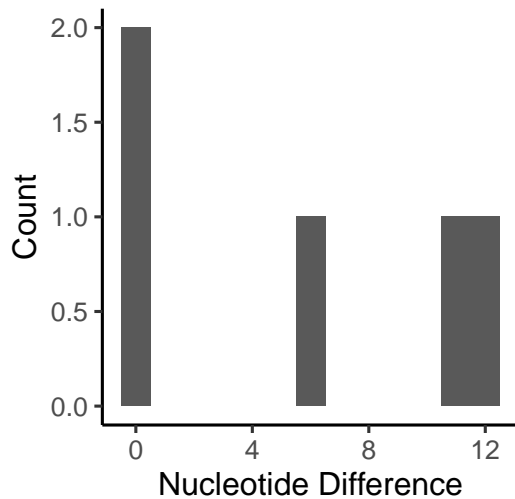
IGHV3-66*01

3283 sequences assigned
1091 (33.2%) exact matches, in which:
966 unique CDR3
6 unique J



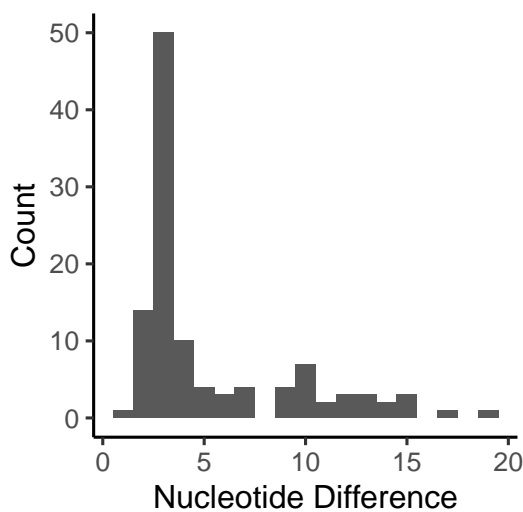
IGHV3-52*02

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



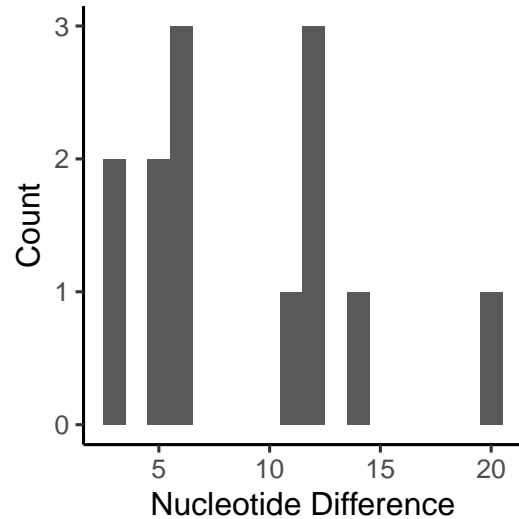
IGHV3-53*01_02

124 sequences assigned
No exact matches.



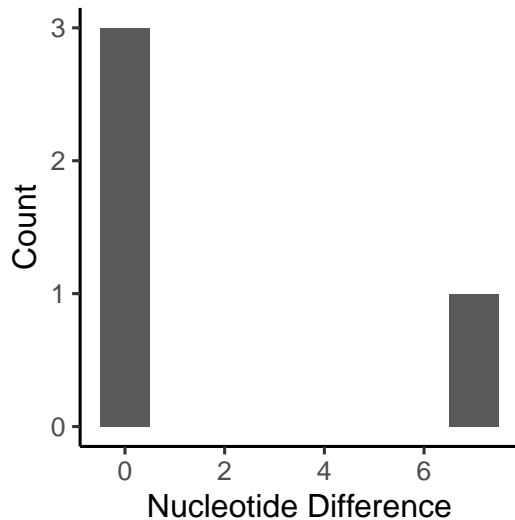
IGHV3-69-1*01

16 sequences assigned
No exact matches.



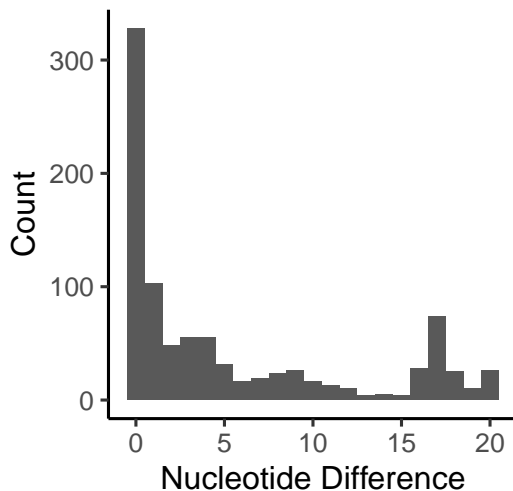
IGHV3-52*01_03

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



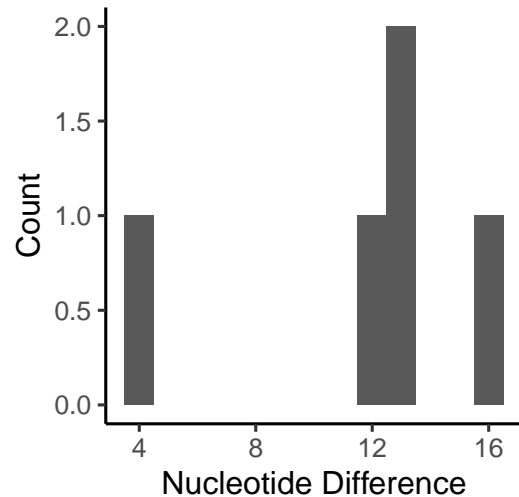
IGHV3-64*01

1260 sequences assigned
328 (26%) exact matches, in which:
280 unique CDR3
6 unique J



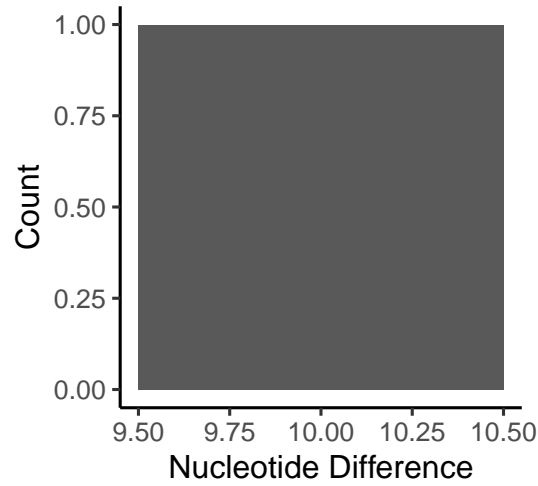
IGHV3-69-1*02

8 sequences assigned
No exact matches.



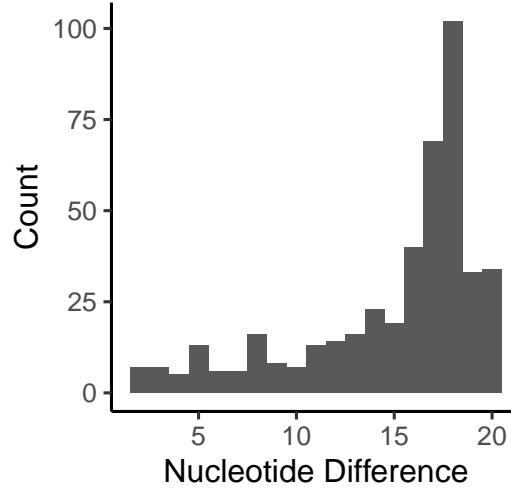
IGHV3-71*01_04

3 sequences assigned
No exact matches.



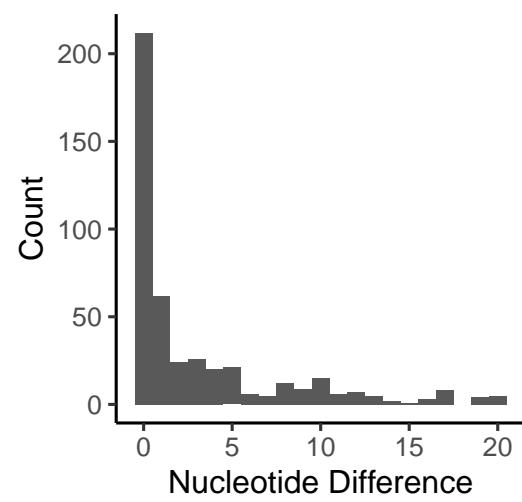
IGHV3-74*03

1589 sequences assigned
No exact matches.



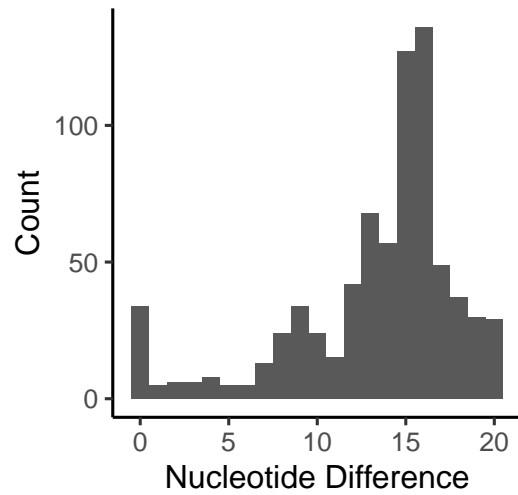
IGHV3-64D*06

598 sequences assigned
212 (35.5%) exact matches, in which:
173 unique CDR3
6 unique J



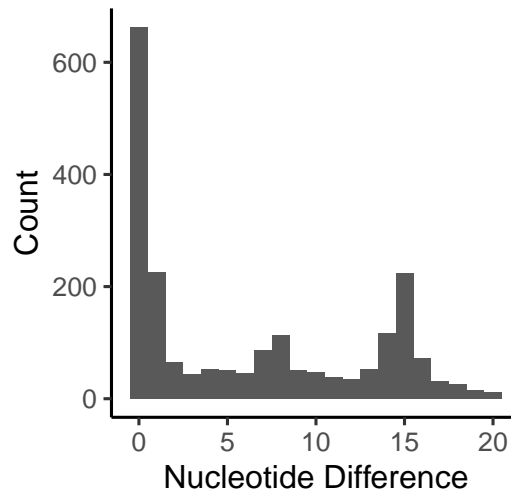
IGHV3-72*01

1125 sequences assigned
34 (3%) exact matches, in which:
29 unique CDR3
6 unique J



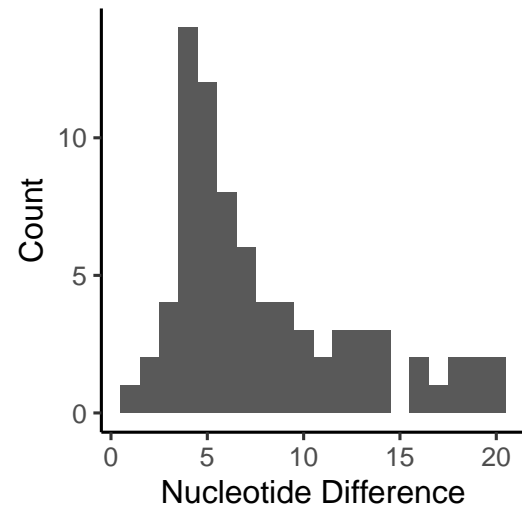
IGHV3-74*01_02

2181 sequences assigned
663 (30.4%) exact matches, in which:
536 unique CDR3
6 unique J



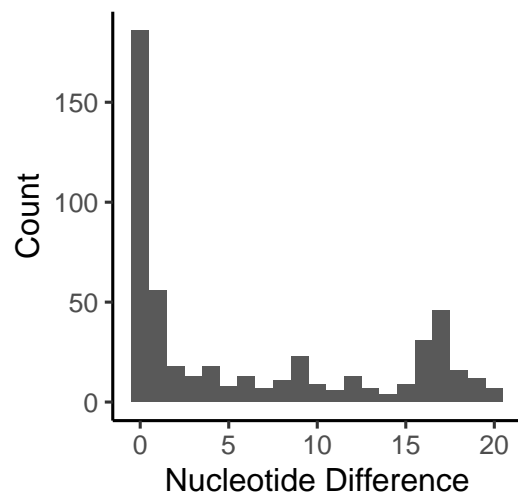
IGHV3-NL1*01

79 sequences assigned
No exact matches.



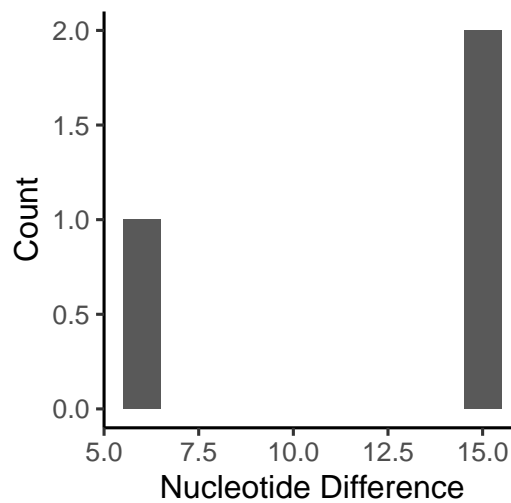
IGHV3-73*01_02

610 sequences assigned
186 (30.5%) exact matches, in which:
169 unique CDR3
5 unique J



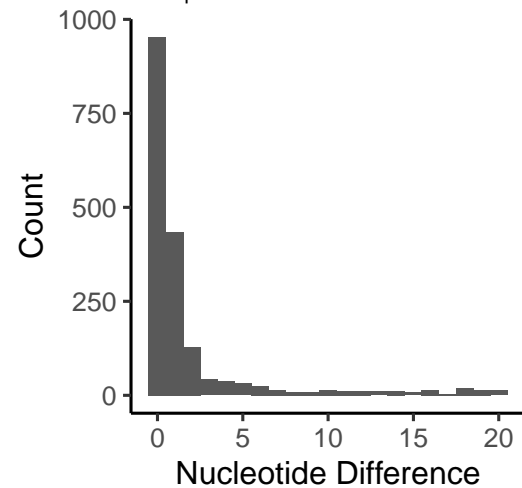
IGHV3-43D*04

3 sequences assigned
No exact matches.



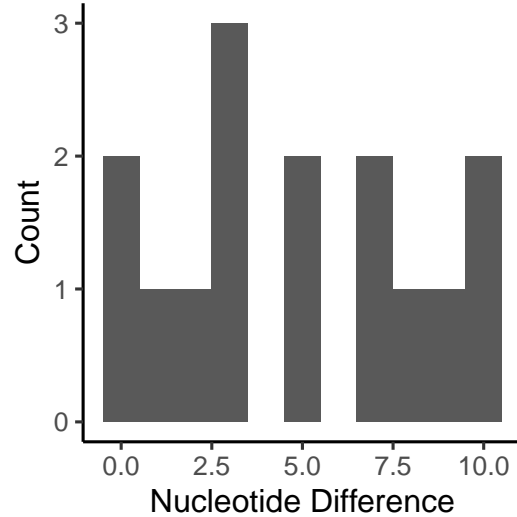
IGHV4-4*02_03

2012 sequences assigned
953 (47.4%) exact matches, in which:
875 unique CDR3
6 unique J



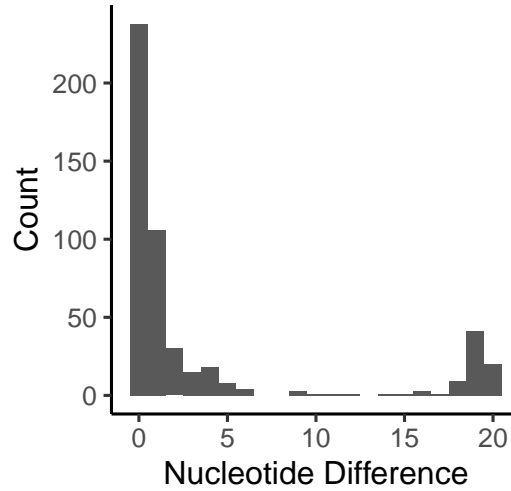
IGHV4-28*03

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



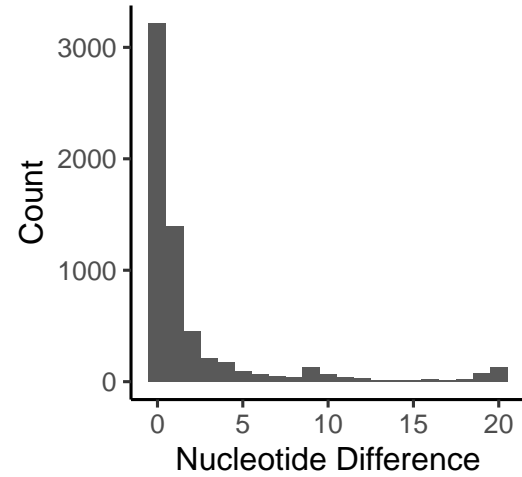
IGHV4-30-4*01

530 sequences assigned
238 (44.9%) exact matches, in which:
230 unique CDR3
6 unique J



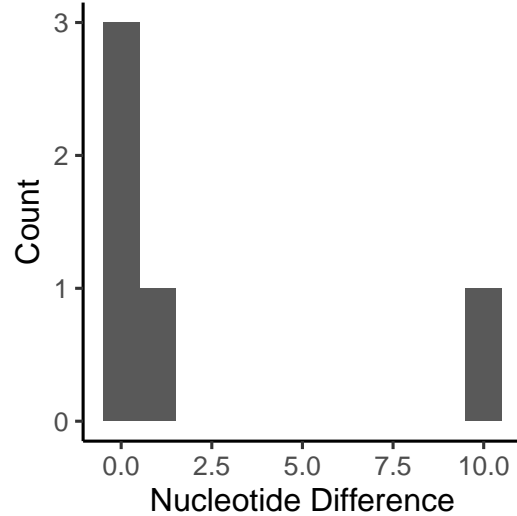
IGHV4-34*01_02

6872 sequences assigned
3215 (46.8%) exact matches, in which:
3055 unique CDR3
6 unique J



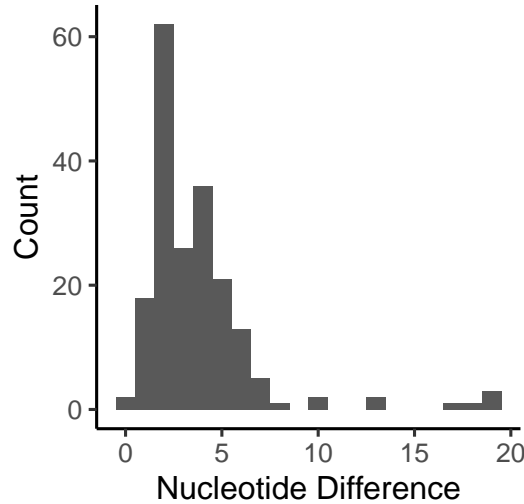
IGHV4-28*01_07

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



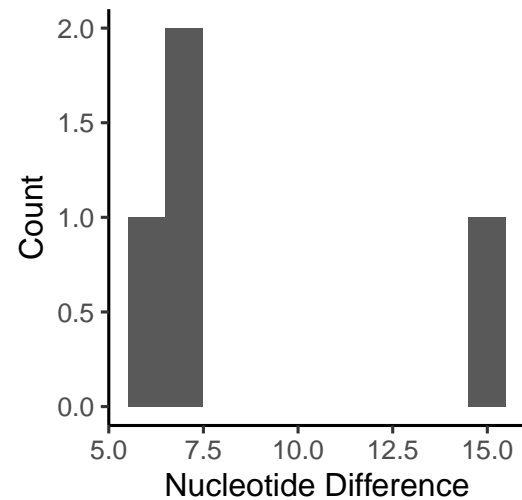
IGHV4-30-4*08

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



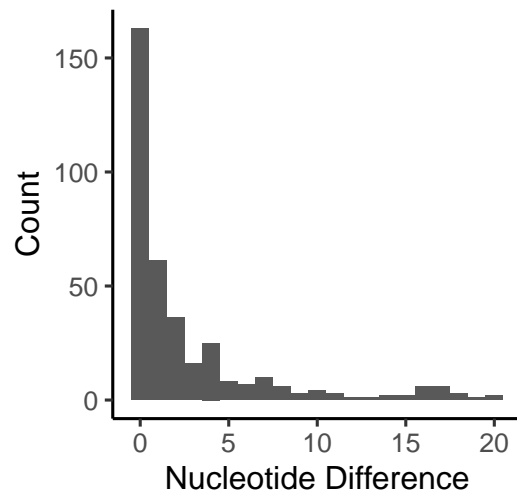
IGHV4-38-2*01

6 sequences assigned
No exact matches.



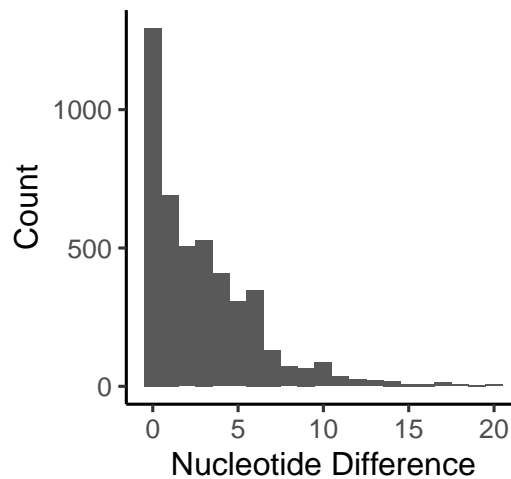
IGHV4-30-2*01

377 sequences assigned
163 (43.2%) exact matches, in which:
140 unique CDR3
6 unique J



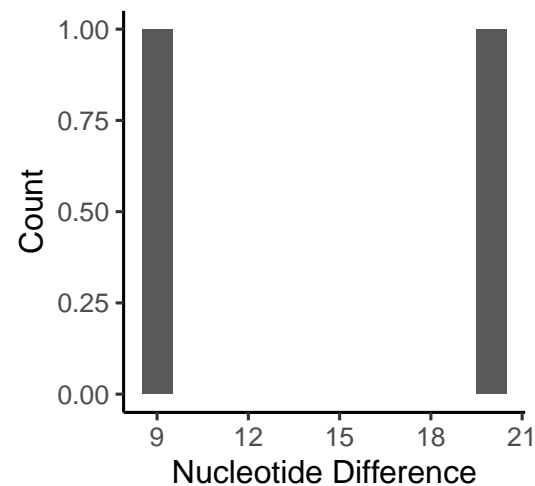
IGHV4-31*02

4991 sequences assigned
1295 (25.9%) exact matches, in which:
1243 unique CDR3
6 unique J



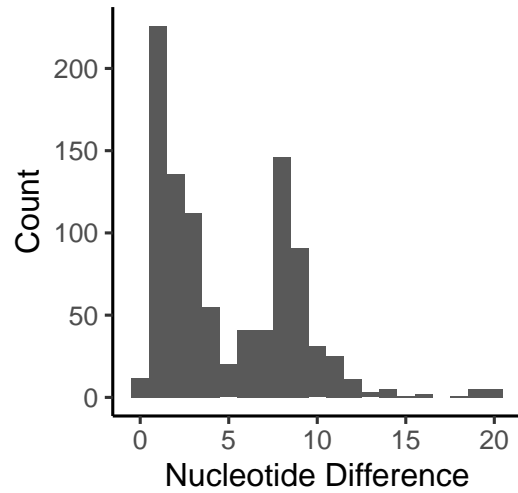
IGHV4-38-2*02

3 sequences assigned
No exact matches.



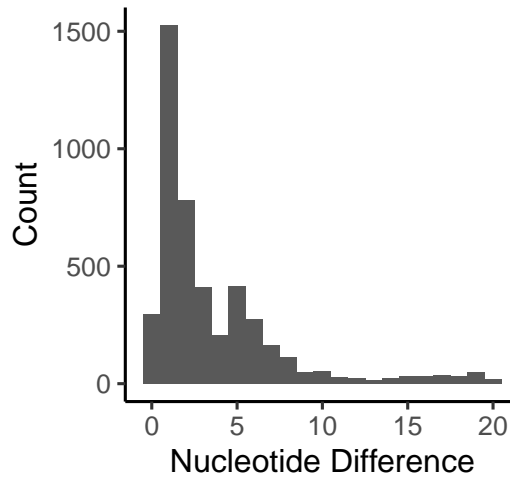
IGHV4-39*07

989 sequences assigned
12 (1.2%) exact matches, in which:
12 unique CDR3
4 unique J



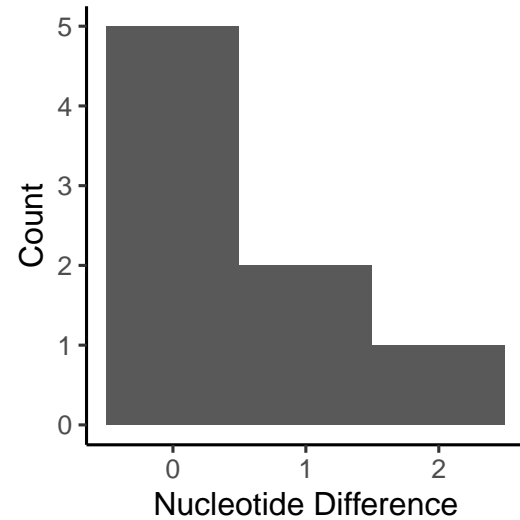
IGHV4-59*12

4726 sequences assigned
296 (6.3%) exact matches, in which:
293 unique CDR3
6 unique J



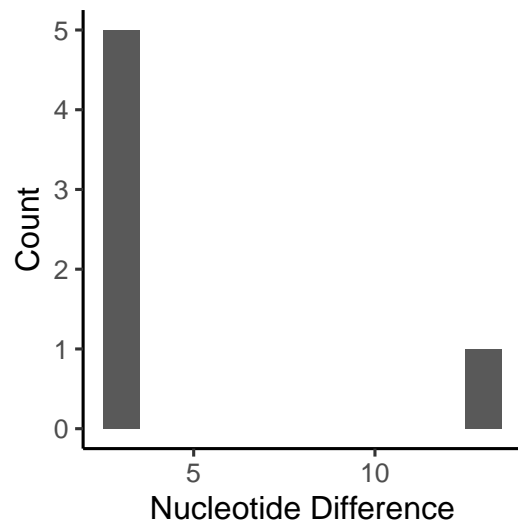
IGHV4-61*07

8 sequences assigned
5 (62.5%) exact matches, in which:
5 unique CDR3
3 unique J



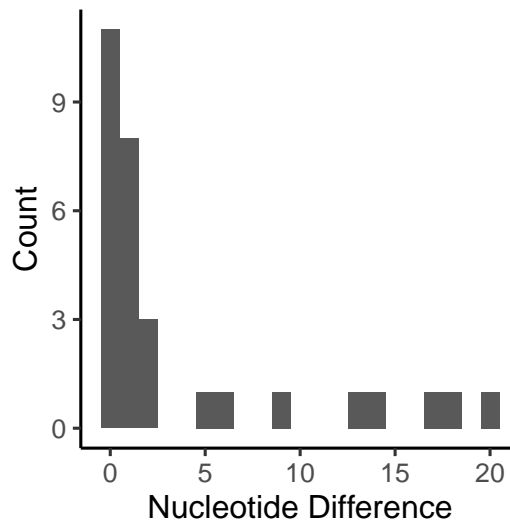
IGHV4-55*09

6 sequences assigned
No exact matches.



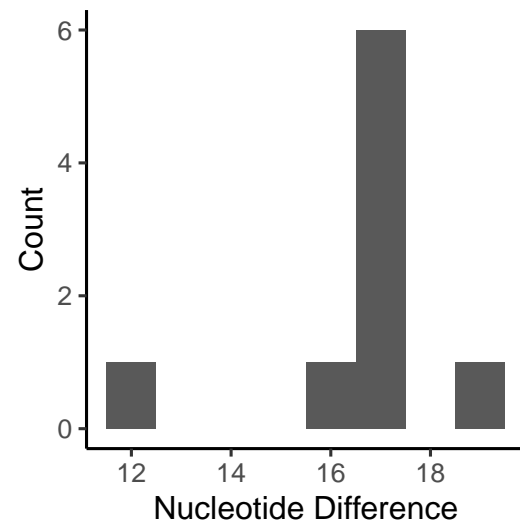
IGHV4-61*01

32 sequences assigned
11 (34.4%) exact matches, in which:
10 unique CDR3
3 unique J



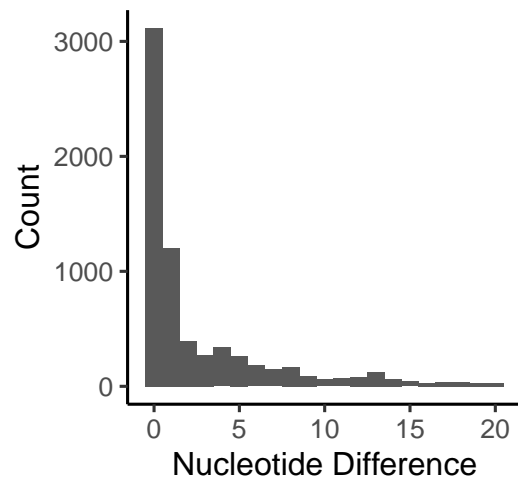
IGHV1/OR15-2*02_03

9 sequences assigned
No exact matches.



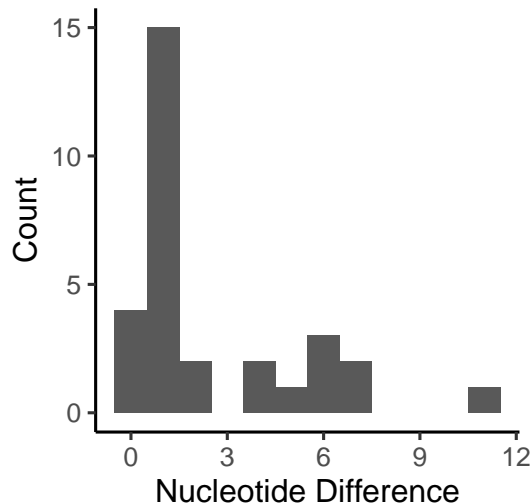
IGHV4-59*08

7399 sequences assigned
3116 (42.1%) exact matches, in which:
3000 unique CDR3
6 unique J



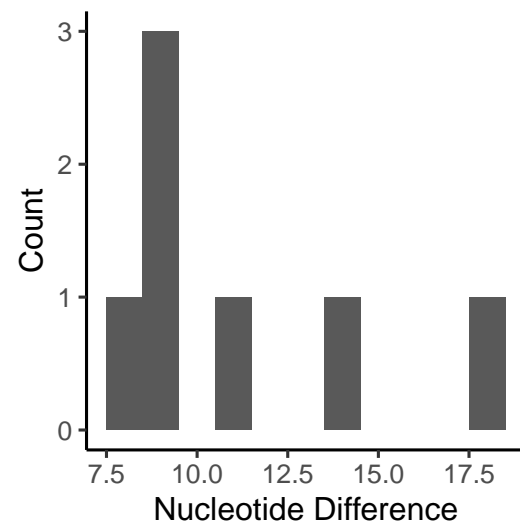
IGHV4-61*05

33 sequences assigned
4 (12.1%) exact matches, in which:
4 unique CDR3
3 unique J



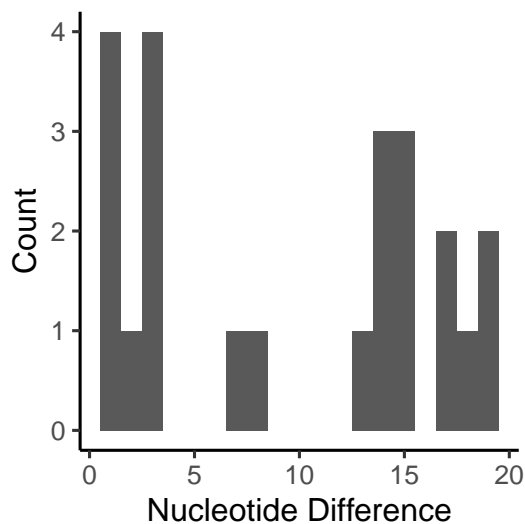
IGHV1/OR15-3*02

7 sequences assigned
No exact matches.



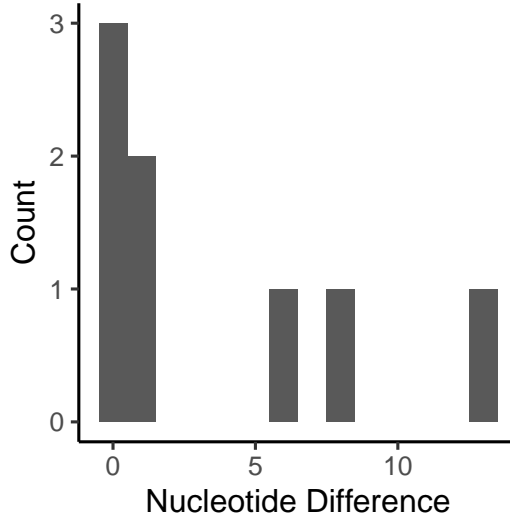
IGHV4/OR15-8*01

33 sequences assigned
No exact matches.



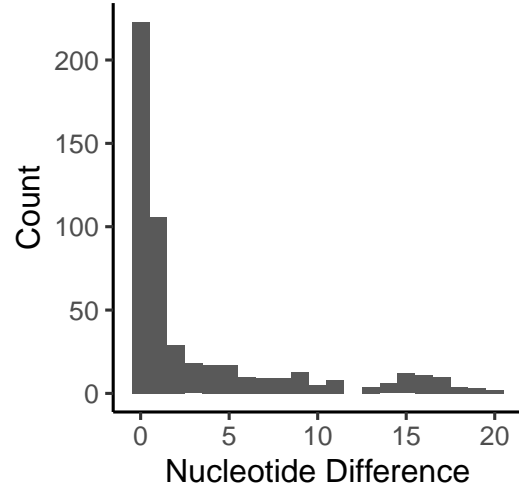
IGHV5-51*04

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



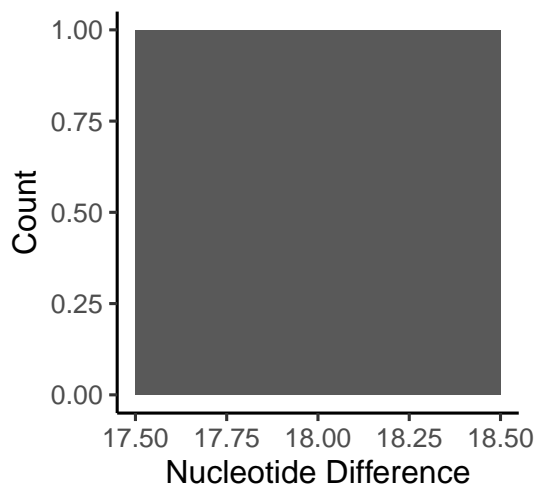
IGHV6-1*01_02

523 sequences assigned
223 (42.6%) exact matches, in which:
219 unique CDR3
6 unique J



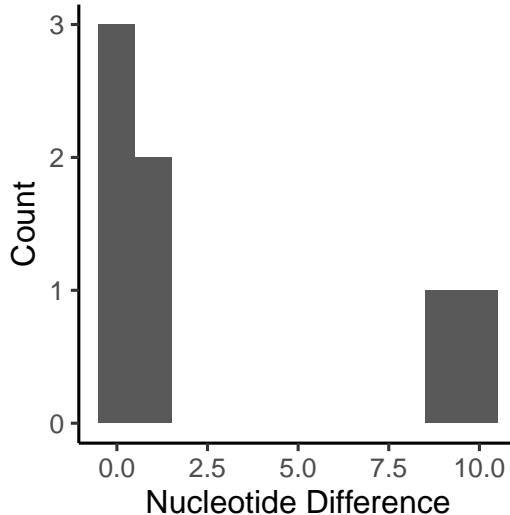
IGHV4/OR15-8*02

16 sequences assigned
No exact matches.



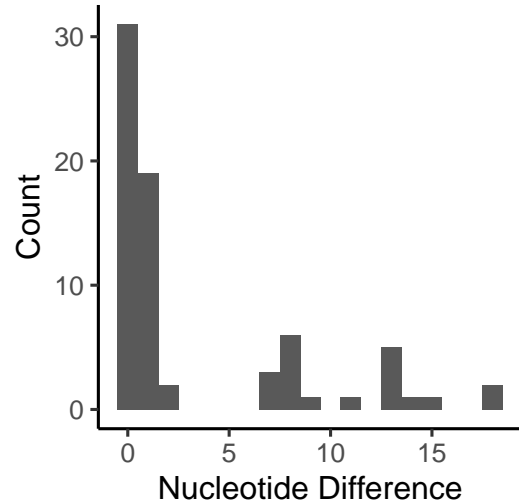
IGHV5-51*06

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



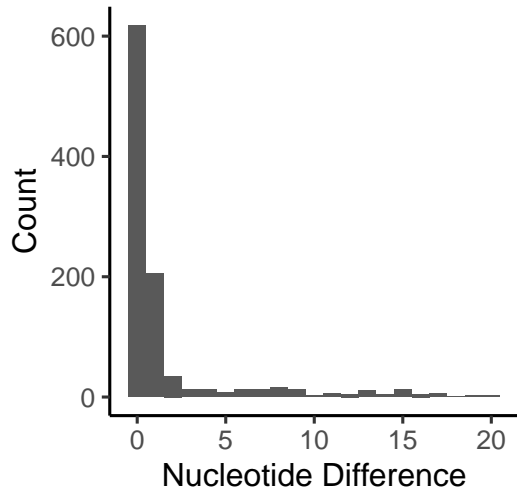
IGHV7-4-1*01

72 sequences assigned
31 (43.1%) exact matches, in which:
29 unique CDR3
6 unique J



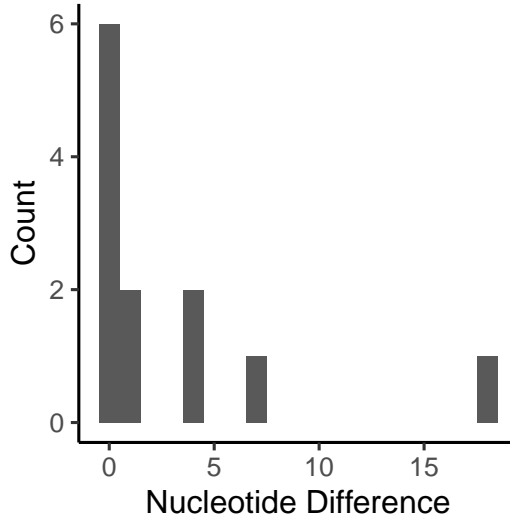
IGHV5-10-1*01_03

1009 sequences assigned
618 (61.2%) exact matches, in which:
566 unique CDR3
6 unique J



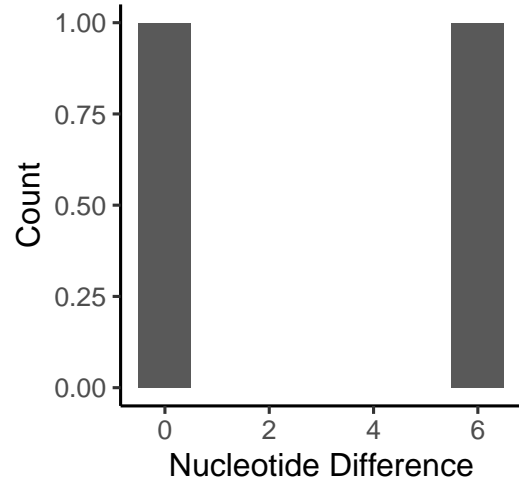
IGHV5-51*07

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
4 unique J



IGHV7-81*01

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





Warning – no inferred sequences found.