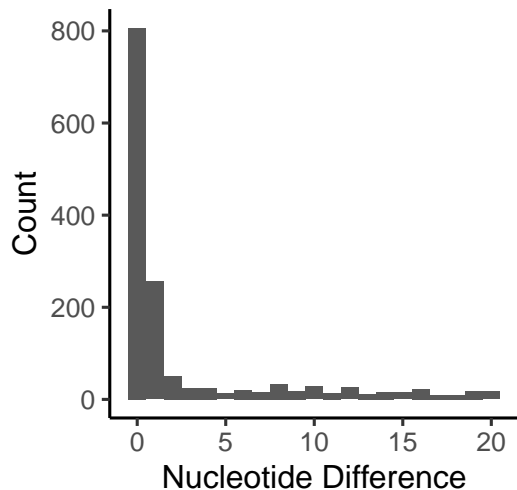


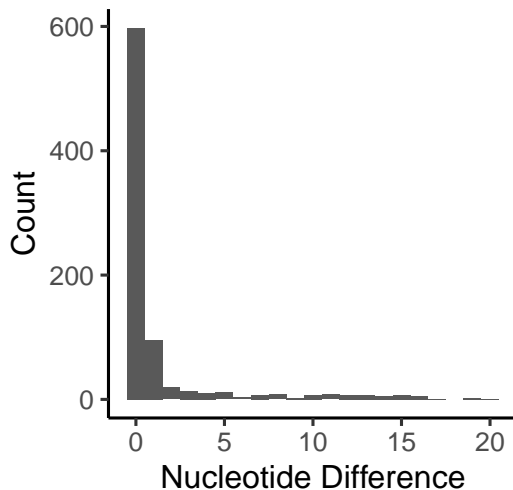
IGHV1-2*02

1742 sequences assigned
807 (46.3%) exact matches, in which:
806 unique CDR3
6 unique J



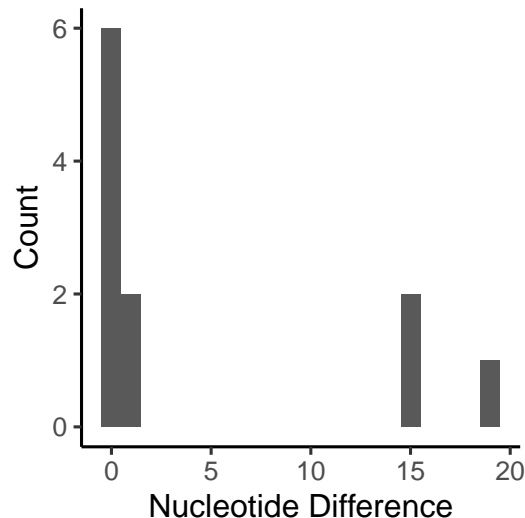
IGHV1-8*01

898 sequences assigned
598 (66.6%) exact matches, in which:
596 unique CDR3
7 unique J



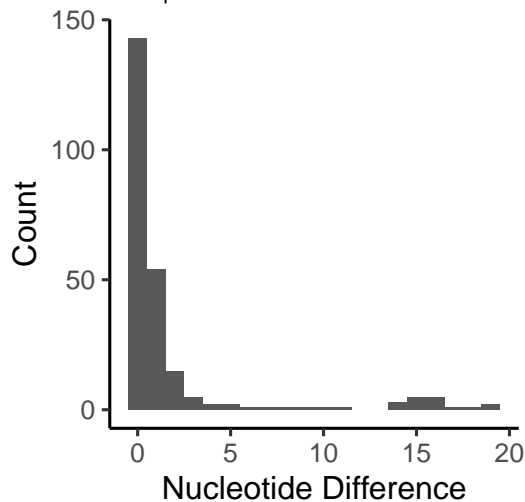
IGHV1-45*02

38 sequences assigned
6 (15.8%) exact matches, in which:
6 unique CDR3
3 unique J



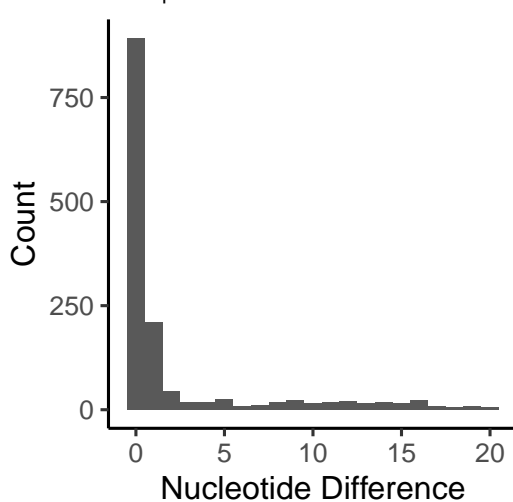
IGHV1-2*04

246 sequences assigned
143 (58.1%) exact matches, in which:
141 unique CDR3
6 unique J



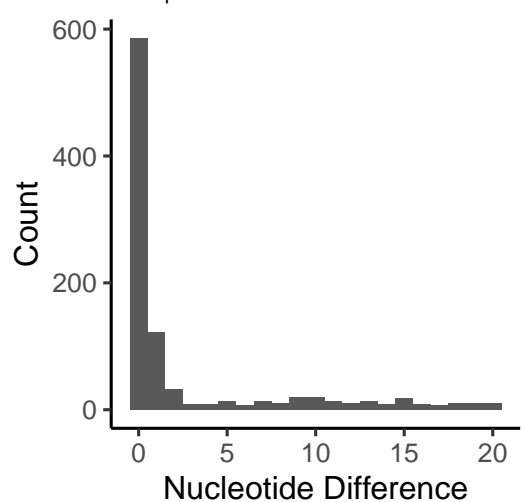
IGHV1-18*01

1604 sequences assigned
893 (55.7%) exact matches, in which:
890 unique CDR3
7 unique J



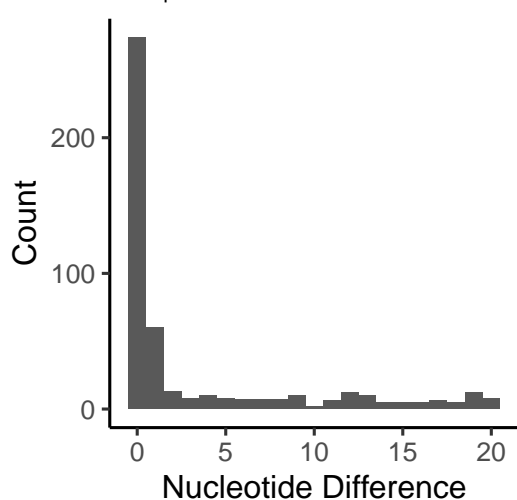
IGHV1-46*01

1153 sequences assigned
586 (50.8%) exact matches, in which:
583 unique CDR3
7 unique J



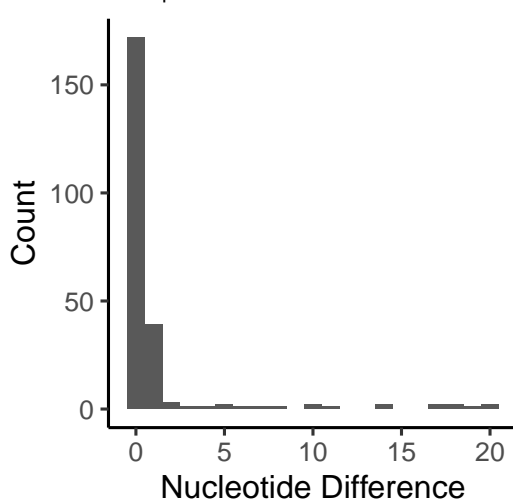
IGHV1-3*01

654 sequences assigned
274 (41.9%) exact matches, in which:
273 unique CDR3
6 unique J



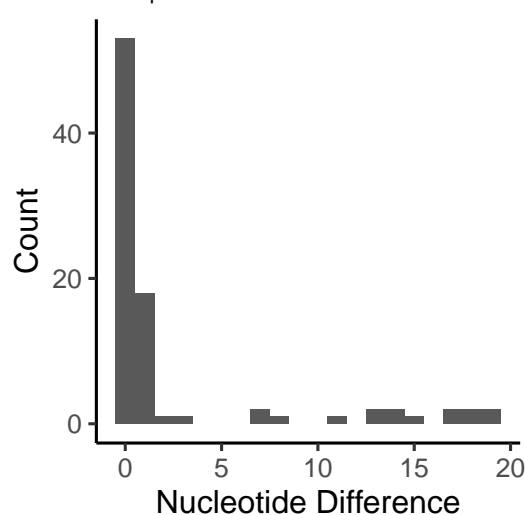
IGHV1-24*01

243 sequences assigned
172 (70.8%) exact matches, in which:
172 unique CDR3
7 unique J



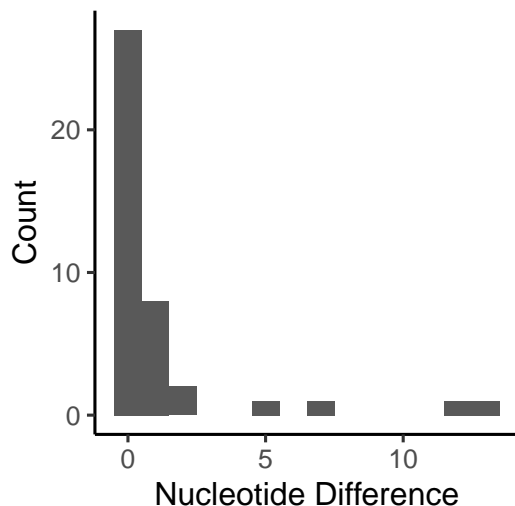
IGHV1-58*01

96 sequences assigned
53 (55.2%) exact matches, in which:
53 unique CDR3
5 unique J



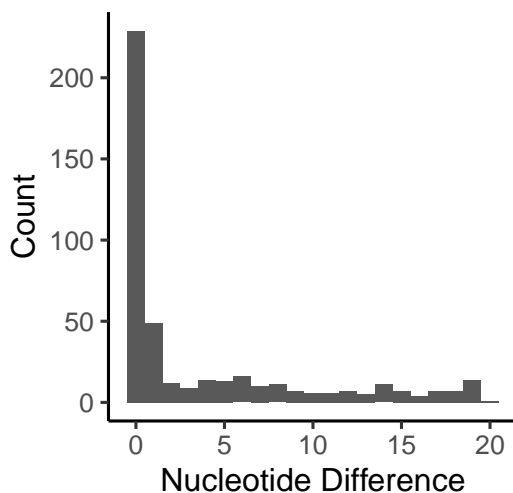
IGHV1-58*02

41 sequences assigned
27 (65.9%) exact matches, in which:
27 unique CDR3
5 unique J



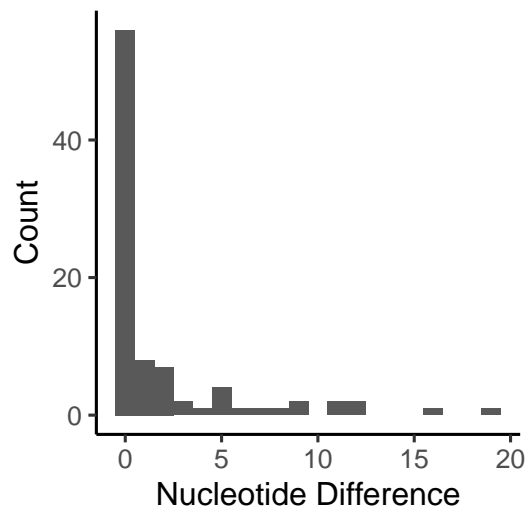
IGHV2-5*01

483 sequences assigned
229 (47.4%) exact matches, in which:
228 unique CDR3
6 unique J



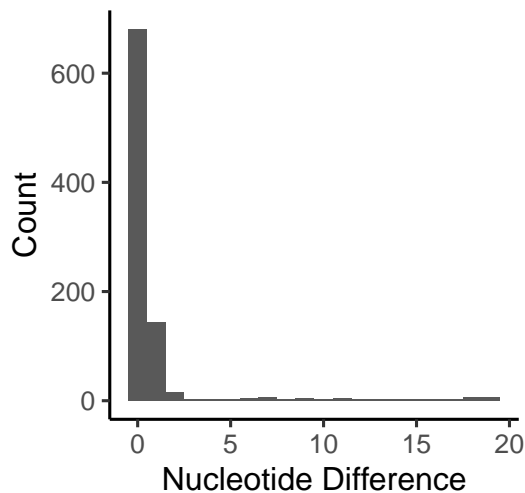
IGHV2-70*01

94 sequences assigned
56 (59.6%) exact matches, in which:
56 unique CDR3
5 unique J



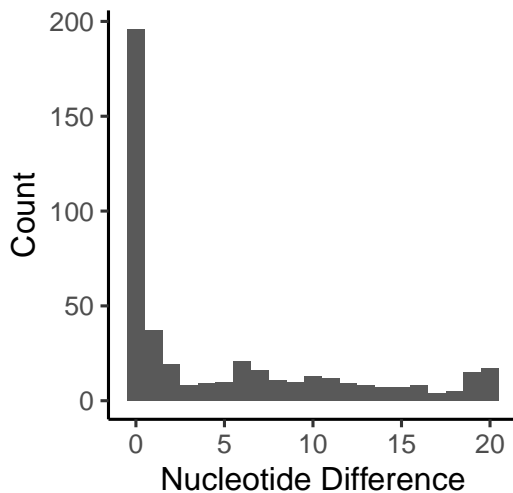
IGHV1-69*04

1119 sequences assigned
681 (60.9%) exact matches, in which:
677 unique CDR3
6 unique J



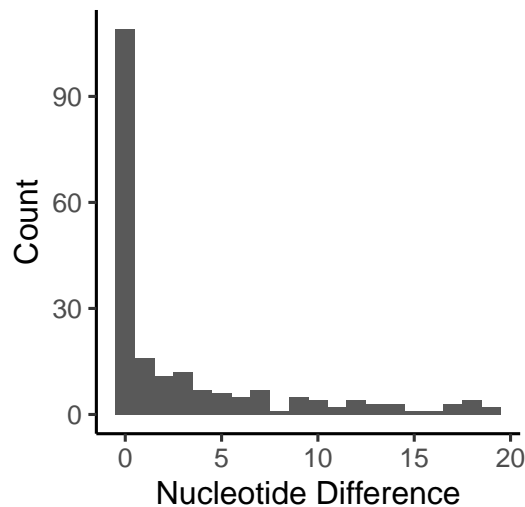
IGHV2-5*02

732 sequences assigned
196 (26.8%) exact matches, in which:
196 unique CDR3
6 unique J



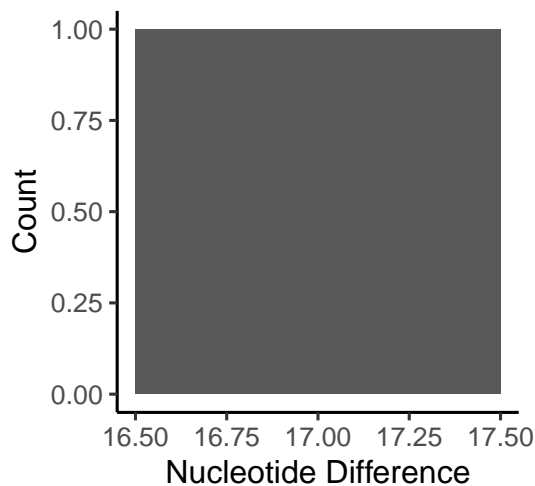
IGHV2-70*15

212 sequences assigned
109 (51.4%) exact matches, in which:
108 unique CDR3
5 unique J



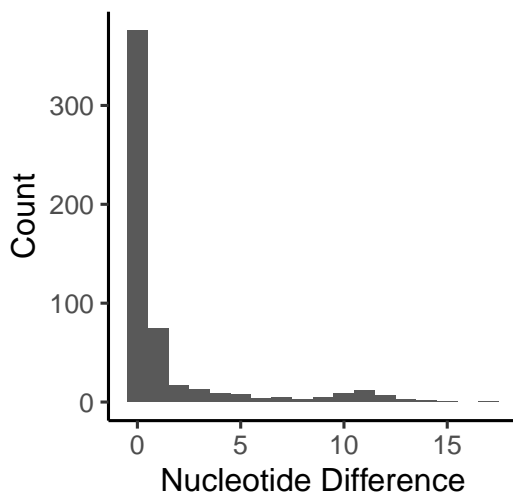
IGHV1-NL1*01

1 sequences assigned
No exact matches.



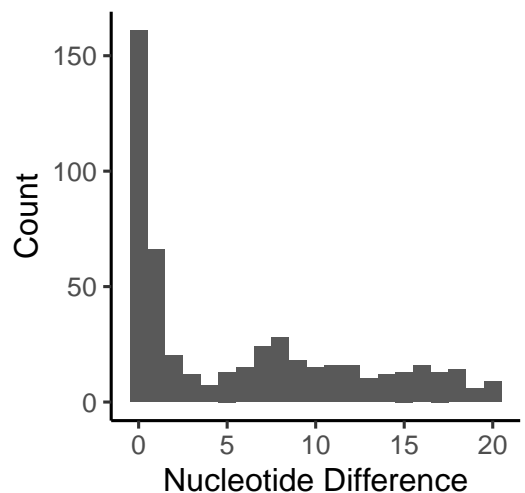
IGHV2-26*01

565 sequences assigned
376 (66.5%) exact matches, in which:
376 unique CDR3
7 unique J



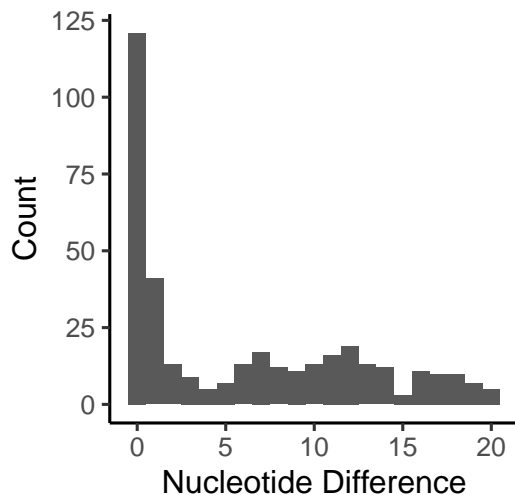
IGHV3-7*01

568 sequences assigned
161 (28.3%) exact matches, in which:
161 unique CDR3
6 unique J



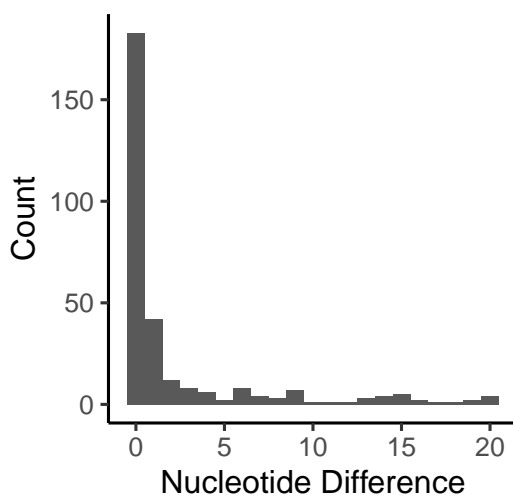
IGHV3-7*03

421 sequences assigned
121 (28.7%) exact matches, in which:
121 unique CDR3
5 unique J



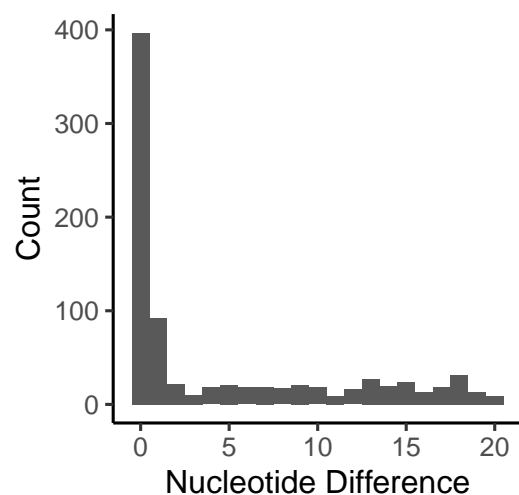
IGHV3-11*06

326 sequences assigned
183 (56.1%) exact matches, in which:
183 unique CDR3
6 unique J



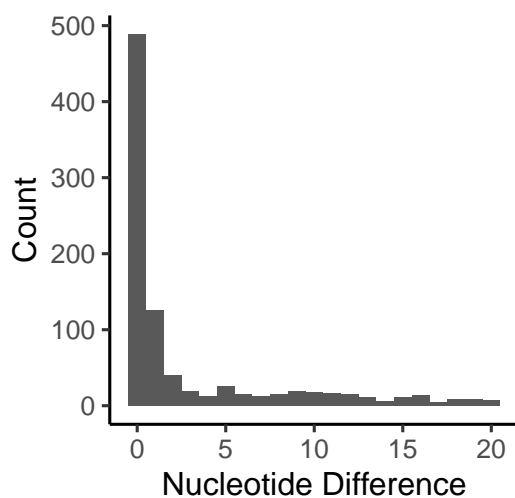
IGHV3-15*01

966 sequences assigned
397 (41.1%) exact matches, in which:
397 unique CDR3
7 unique J



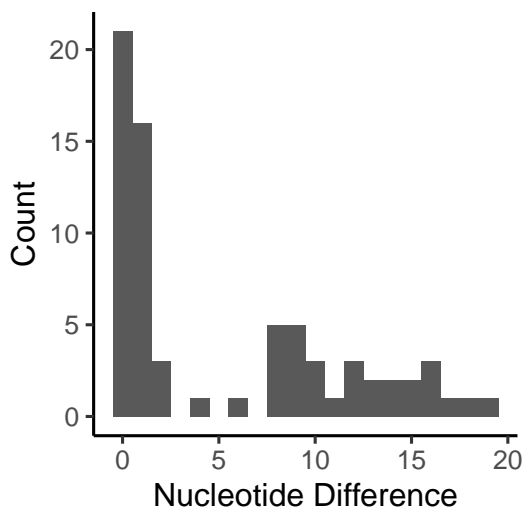
IGHV3-9*01

995 sequences assigned
489 (49.1%) exact matches, in which:
487 unique CDR3
6 unique J



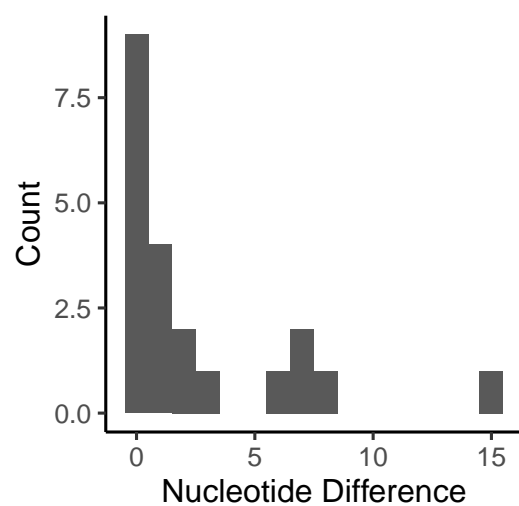
IGHV3-13*01

73 sequences assigned
21 (28.8%) exact matches, in which:
21 unique CDR3
5 unique J



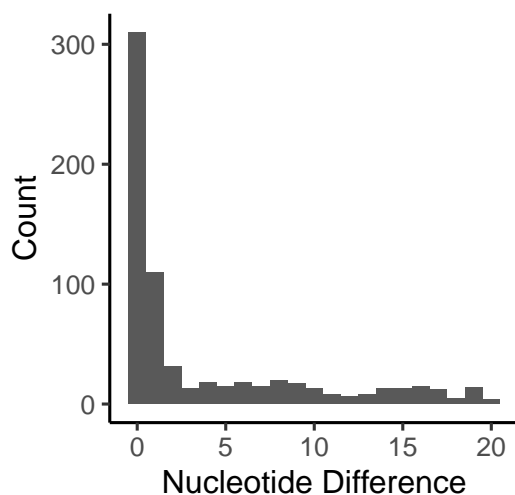
IGHV3-20*01

21 sequences assigned
9 (42.9%) exact matches, in which:
9 unique CDR3
3 unique J



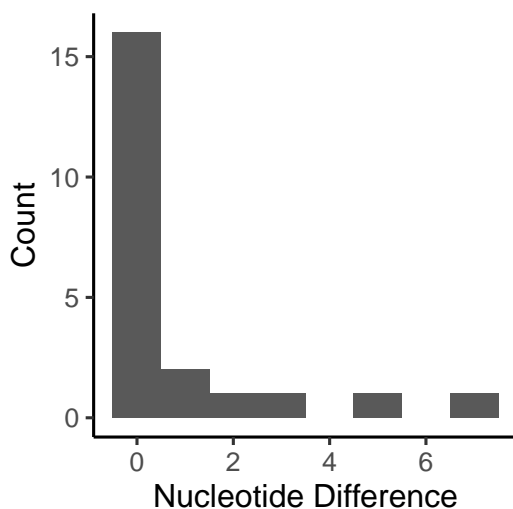
IGHV3-11*01

720 sequences assigned
310 (43.1%) exact matches, in which:
310 unique CDR3
7 unique J



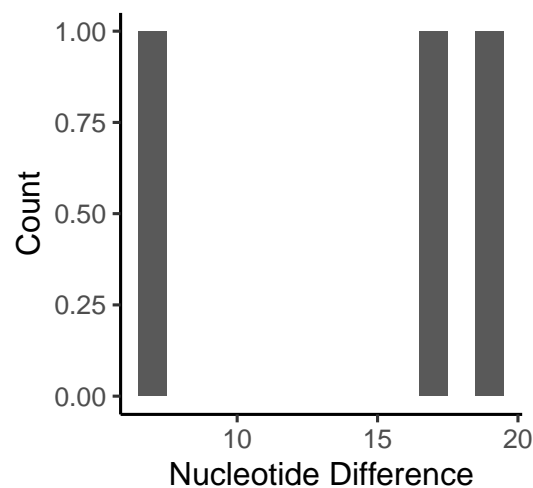
IGHV3-13*05

22 sequences assigned
16 (72.7%) exact matches, in which:
16 unique CDR3
6 unique J



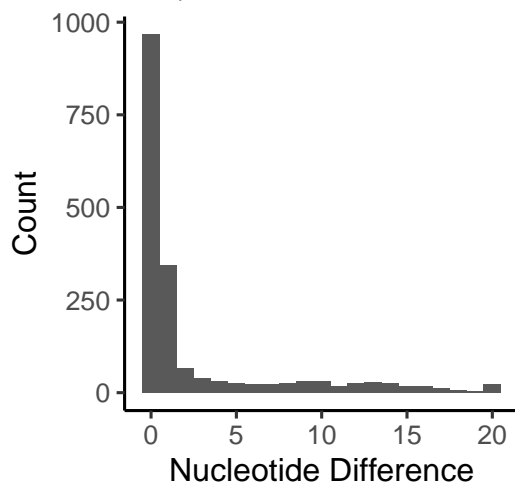
IGHV3-20*04

9 sequences assigned
No exact matches.



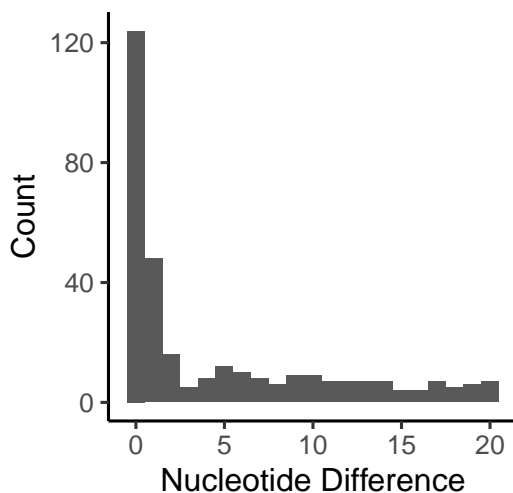
IGHV3-21*01

1907 sequences assigned
967 (50.7%) exact matches, in which:
963 unique CDR3
7 unique J



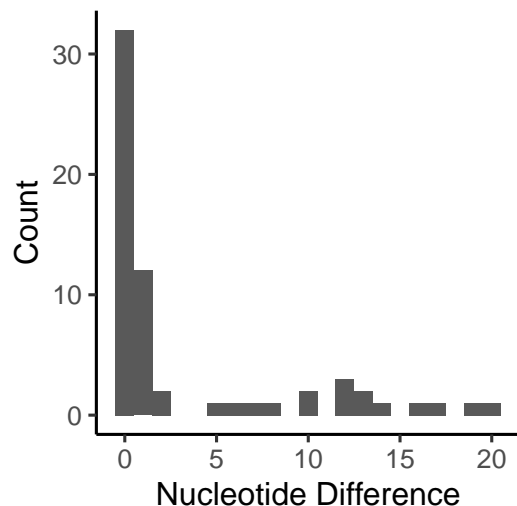
IGHV3-30*18_T158G

418 sequences assigned
124 (29.7%) exact matches, in which:
124 unique CDR3
7 unique J



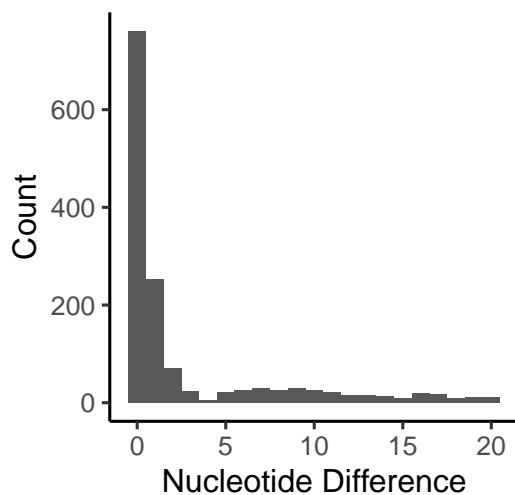
IGHV3-43*01

74 sequences assigned
32 (43.2%) exact matches, in which:
32 unique CDR3
5 unique J



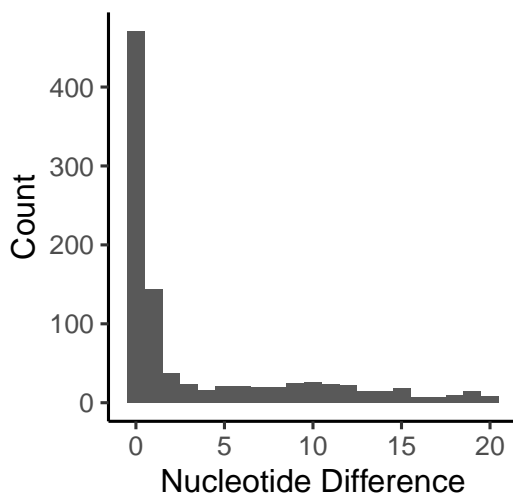
IGHV3-30-3*01

2105 sequences assigned
761 (36.2%) exact matches, in which:
759 unique CDR3
7 unique J



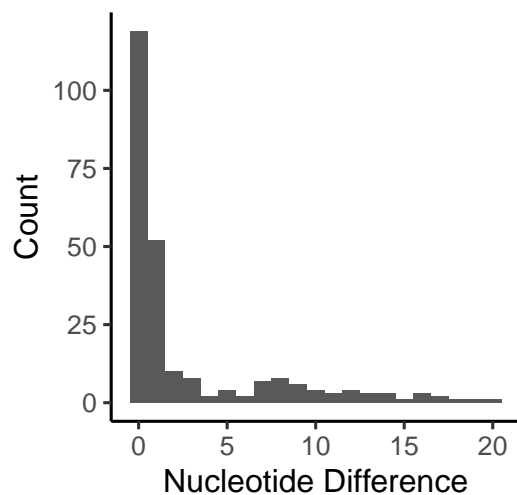
IGHV3-33*01

1103 sequences assigned
471 (42.7%) exact matches, in which:
471 unique CDR3
7 unique J



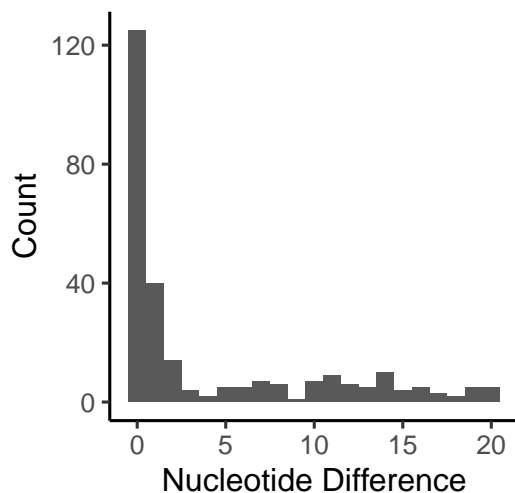
IGHV3-43*02

268 sequences assigned
119 (44.4%) exact matches, in which:
119 unique CDR3
6 unique J



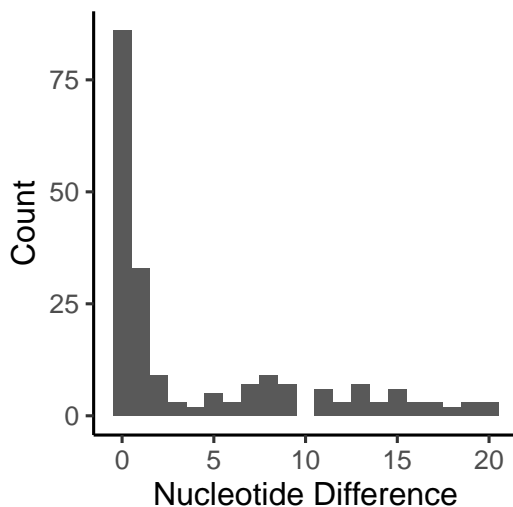
IGHV3-30-3*01_T158G

469 sequences assigned
125 (26.7%) exact matches, in which:
125 unique CDR3
5 unique J



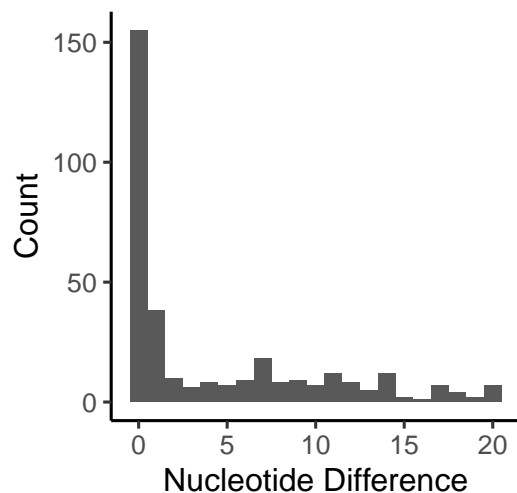
IGHV3-33*01_T158G

252 sequences assigned
86 (34.1%) exact matches, in which:
86 unique CDR3
7 unique J



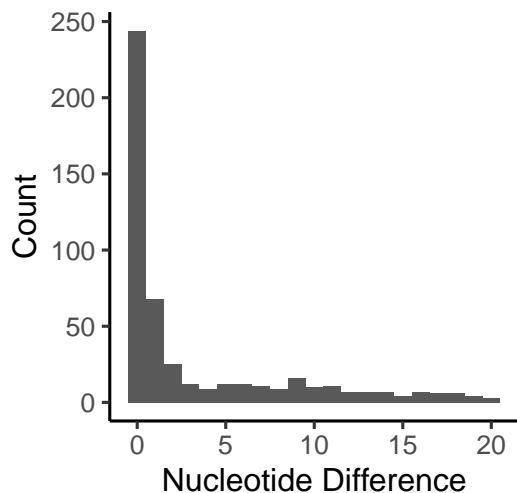
IGHV3-48*02

364 sequences assigned
155 (42.6%) exact matches, in which:
155 unique CDR3
6 unique J



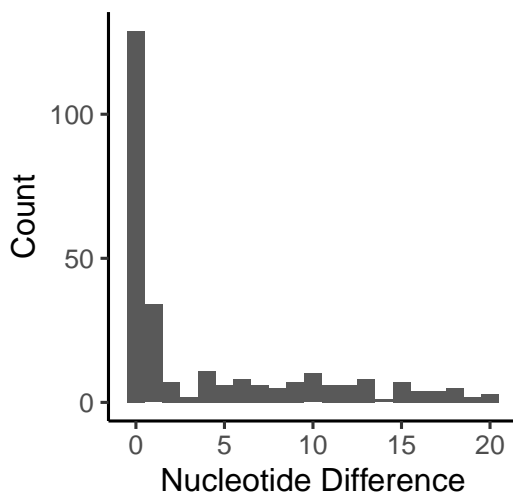
IGHV3-48*03

531 sequences assigned
244 (46%) exact matches, in which:
244 unique CDR3
6 unique J



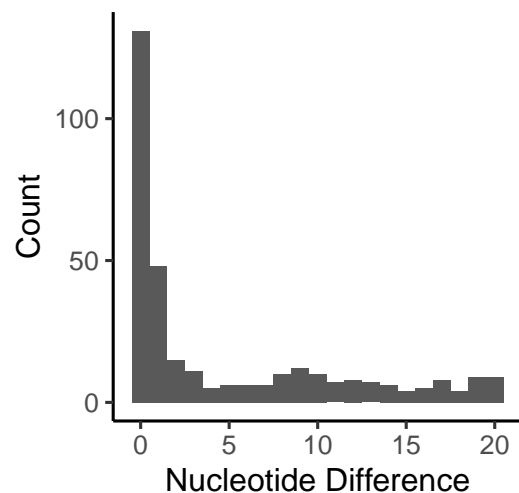
IGHV3-53*01

357 sequences assigned
129 (36.1%) exact matches, in which:
129 unique CDR3
6 unique J



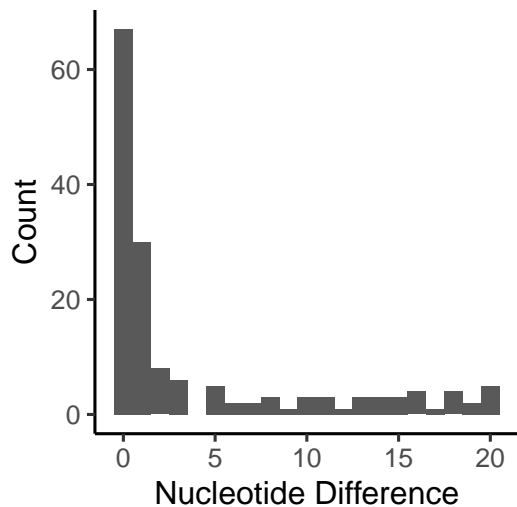
IGHV3-66*01

360 sequences assigned
131 (36.4%) exact matches, in which:
130 unique CDR3
6 unique J



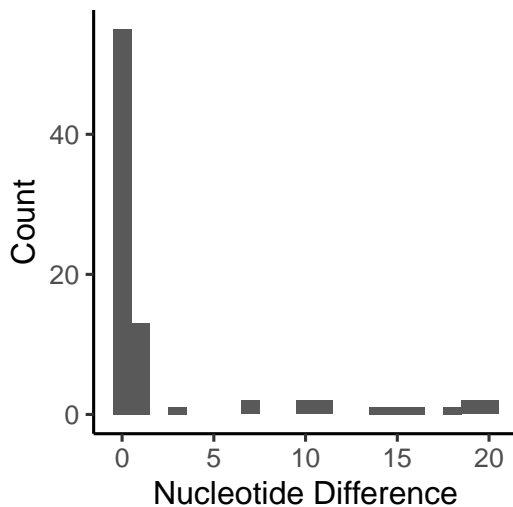
IGHV3-49*04

205 sequences assigned
67 (32.7%) exact matches, in which:
64 unique CDR3
5 unique J



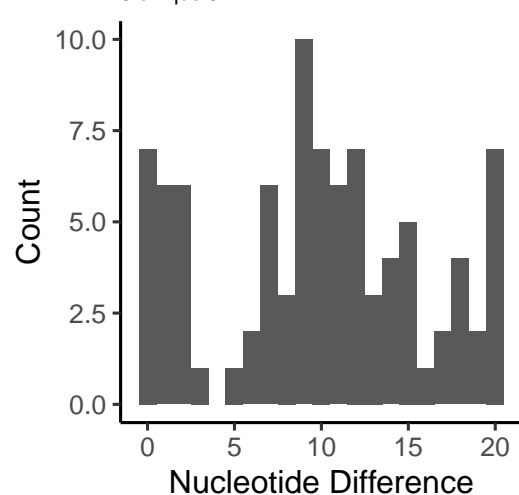
IGHV3-53*04

84 sequences assigned
55 (65.5%) exact matches, in which:
55 unique CDR3
5 unique J



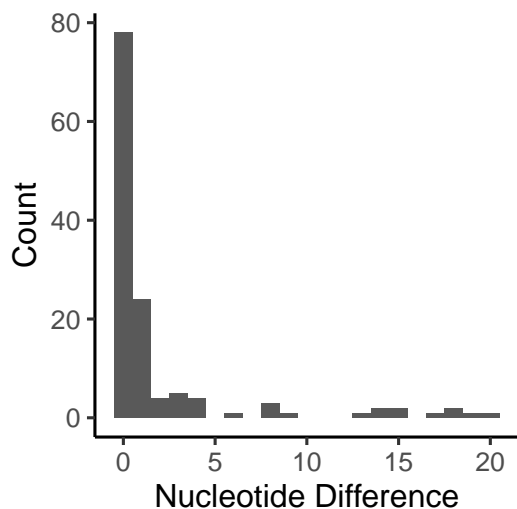
IGHV3-72*01

108 sequences assigned
7 (6.5%) exact matches, in which:
7 unique CDR3
3 unique J



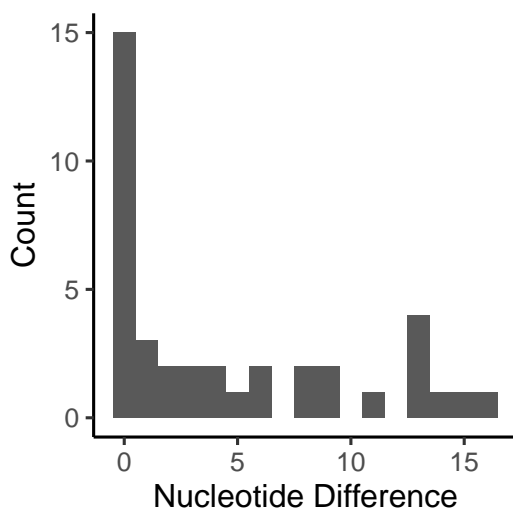
IGHV3-49*05

178 sequences assigned
78 (43.8%) exact matches, in which:
78 unique CDR3
6 unique J



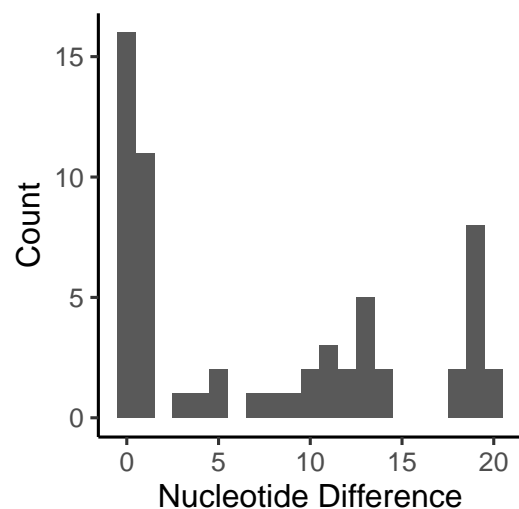
IGHV3-64*01

54 sequences assigned
15 (27.8%) exact matches, in which:
15 unique CDR3
3 unique J



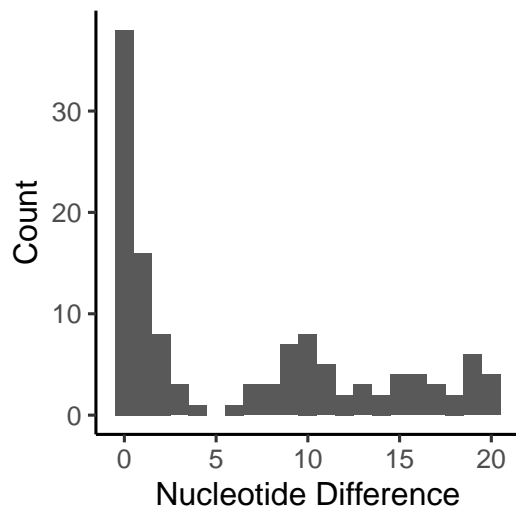
IGHV3-73*01

85 sequences assigned
16 (18.8%) exact matches, in which:
16 unique CDR3
4 unique J



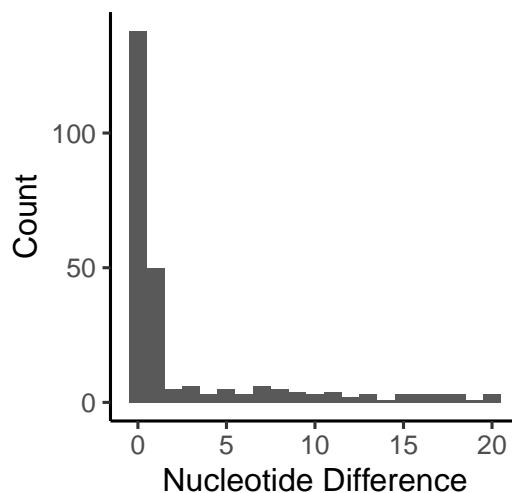
IGHV3-73*02

140 sequences assigned
38 (27.1%) exact matches, in which:
38 unique CDR3
5 unique J



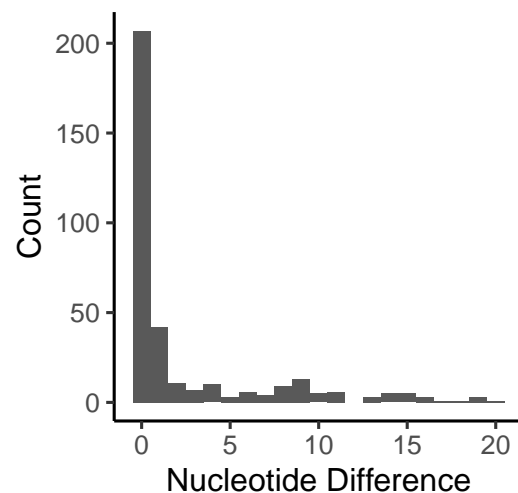
IGHV4-4*07

279 sequences assigned
138 (49.5%) exact matches, in which:
138 unique CDR3
5 unique J



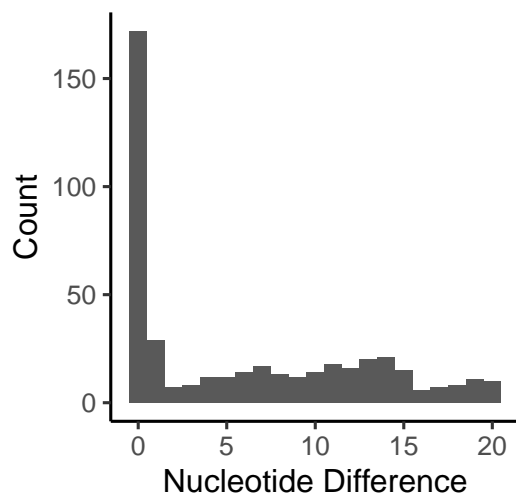
IGHV4-30-4*01

387 sequences assigned
207 (53.5%) exact matches, in which:
207 unique CDR3
5 unique J



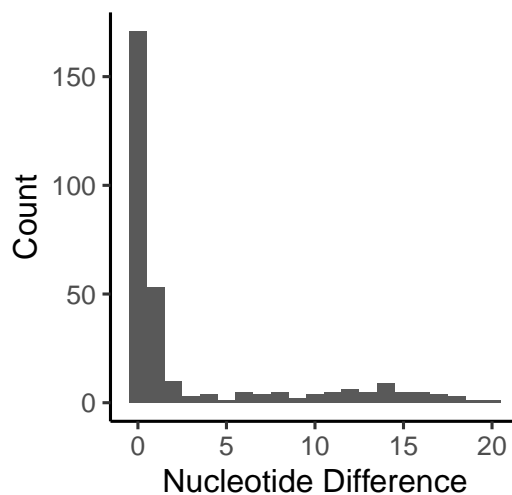
IGHV3-74*01

531 sequences assigned
172 (32.4%) exact matches, in which:
170 unique CDR3
7 unique J



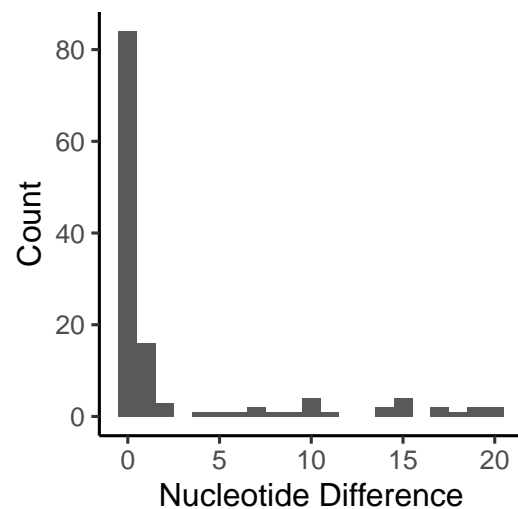
IGHV4-4*02_C20T

380 sequences assigned
171 (45%) exact matches, in which:
171 unique CDR3
6 unique J



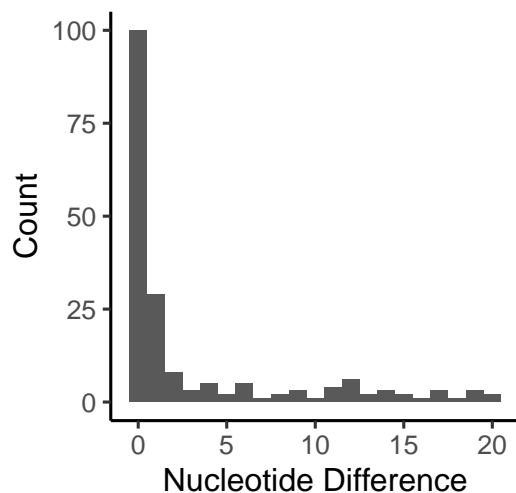
IGHV4-30-2*01

138 sequences assigned
84 (60.9%) exact matches, in which:
84 unique CDR3
6 unique J



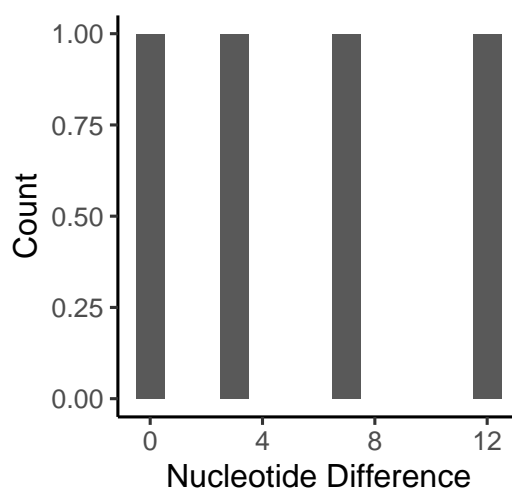
IGHV3-64D*06

208 sequences assigned
100 (48.1%) exact matches, in which:
100 unique CDR3
6 unique J



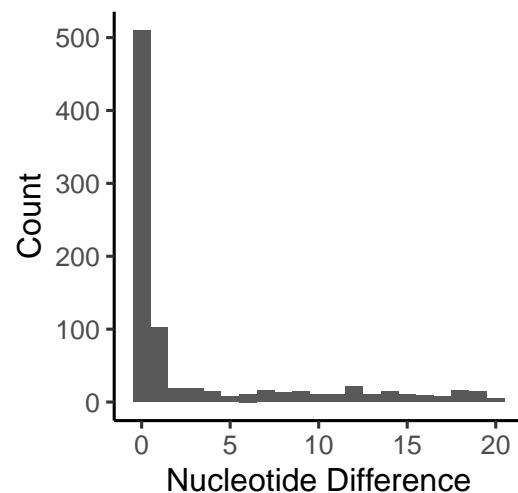
IGHV4-28*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



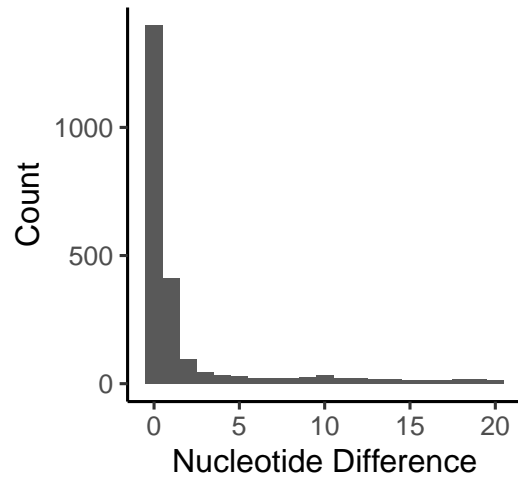
IGHV4-31*03

971 sequences assigned
510 (52.5%) exact matches, in which:
509 unique CDR3
7 unique J



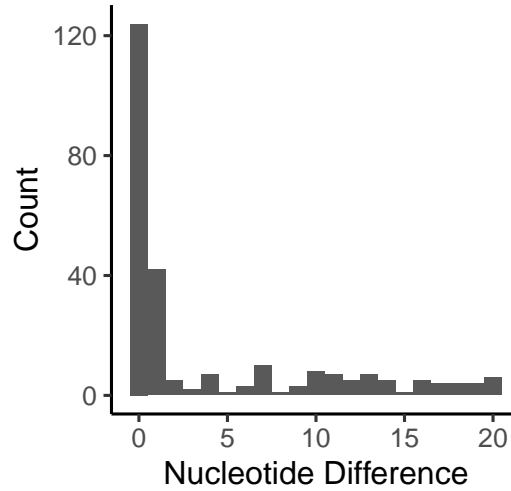
IGHV4-34*01

2575 sequences assigned
1398 (54.3%) exact matches, in which:
1393 unique CDR3
7 unique J



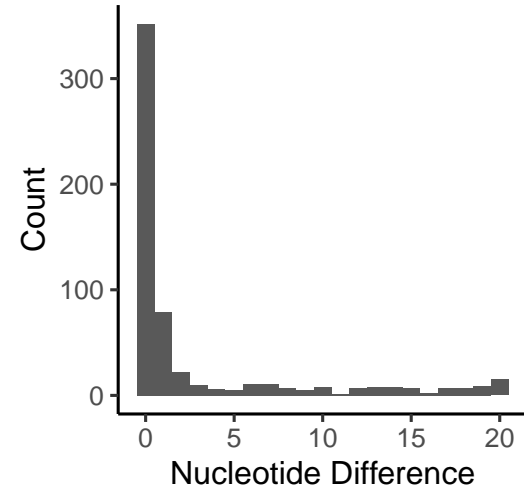
IGHV4-59*08

298 sequences assigned
124 (41.6%) exact matches, in which:
122 unique CDR3
6 unique J



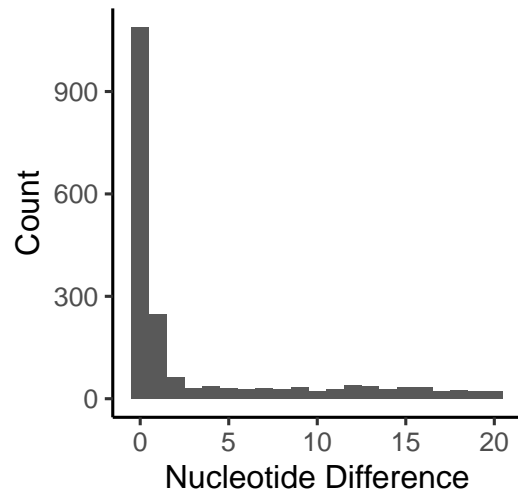
IGHV5-10-1*03

678 sequences assigned
352 (51.9%) exact matches, in which:
351 unique CDR3
6 unique J



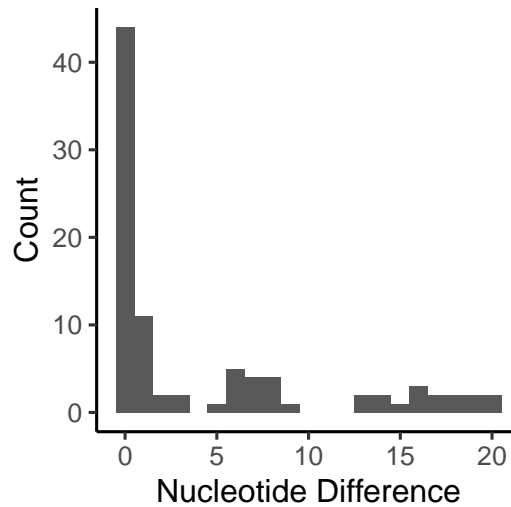
IGHV4-39*01

2284 sequences assigned
1089 (47.7%) exact matches, in which:
1087 unique CDR3
7 unique J



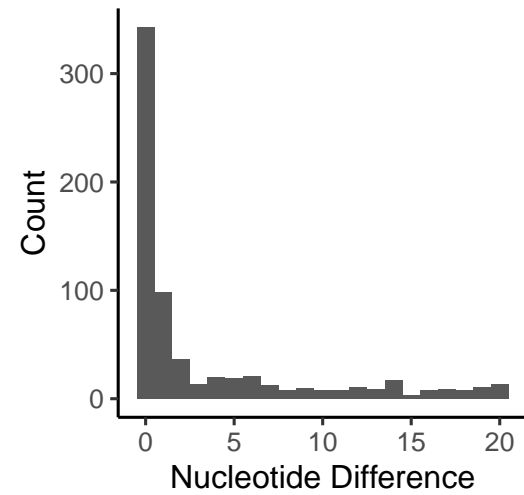
IGHV4-61*01

106 sequences assigned
44 (41.5%) exact matches, in which:
44 unique CDR3
5 unique J



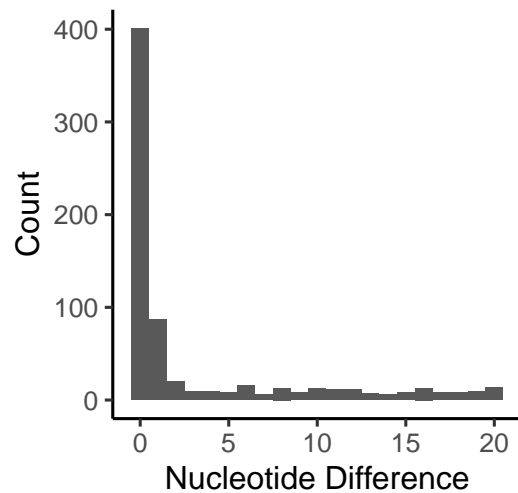
IGHV5-51*01

818 sequences assigned
343 (41.9%) exact matches, in which:
343 unique CDR3
6 unique J



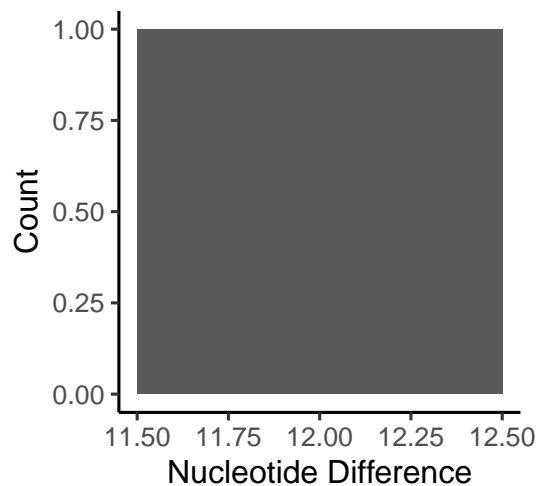
IGHV4-59*01

803 sequences assigned
401 (49.9%) exact matches, in which:
399 unique CDR3
7 unique J



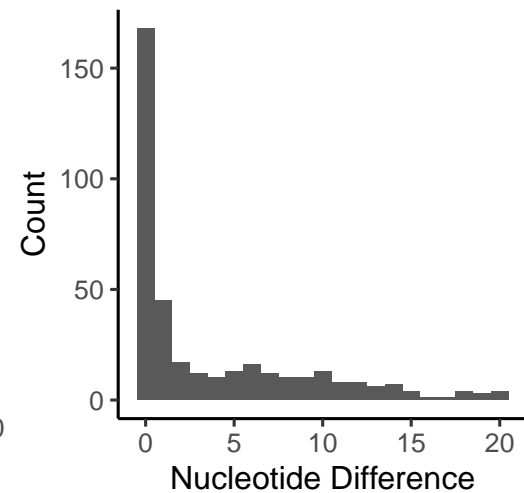
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



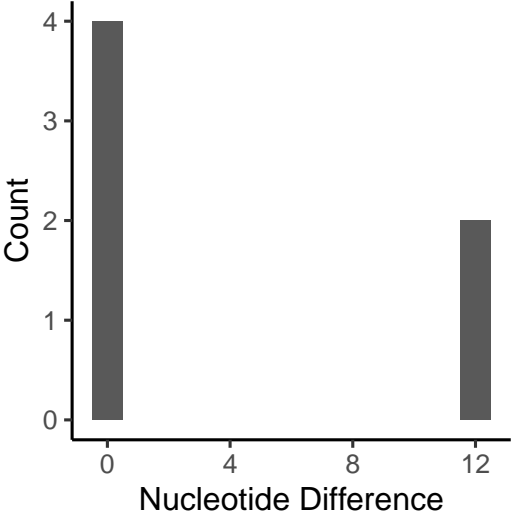
IGHV6-1*01

389 sequences assigned
168 (43.2%) exact matches, in which:
168 unique CDR3
7 unique J

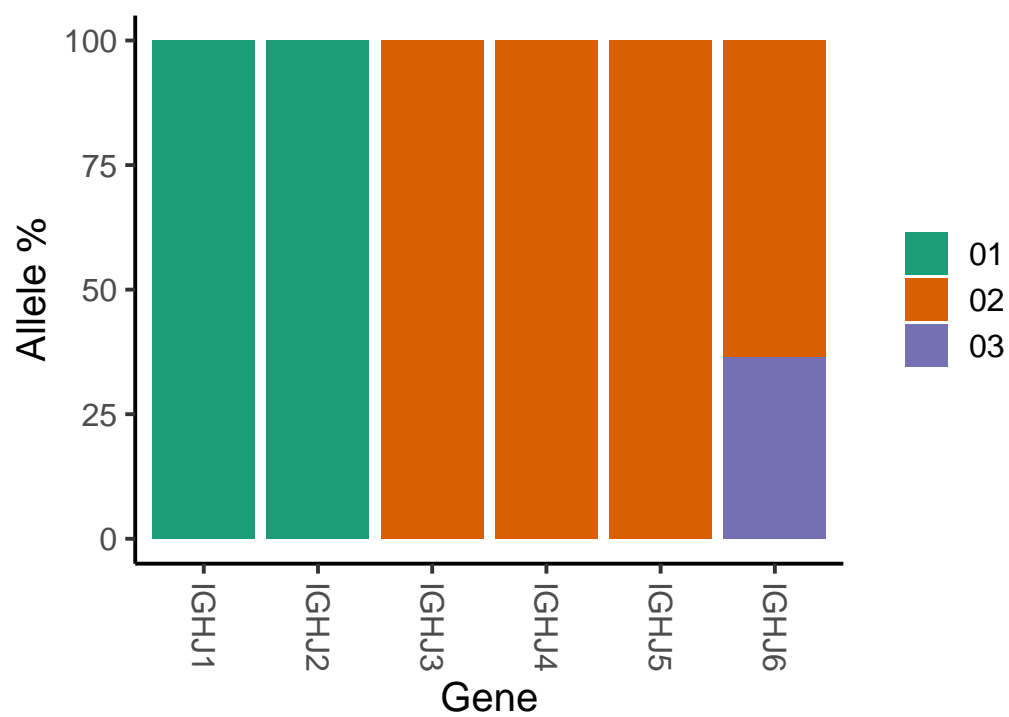


IGHV7-4-1*01

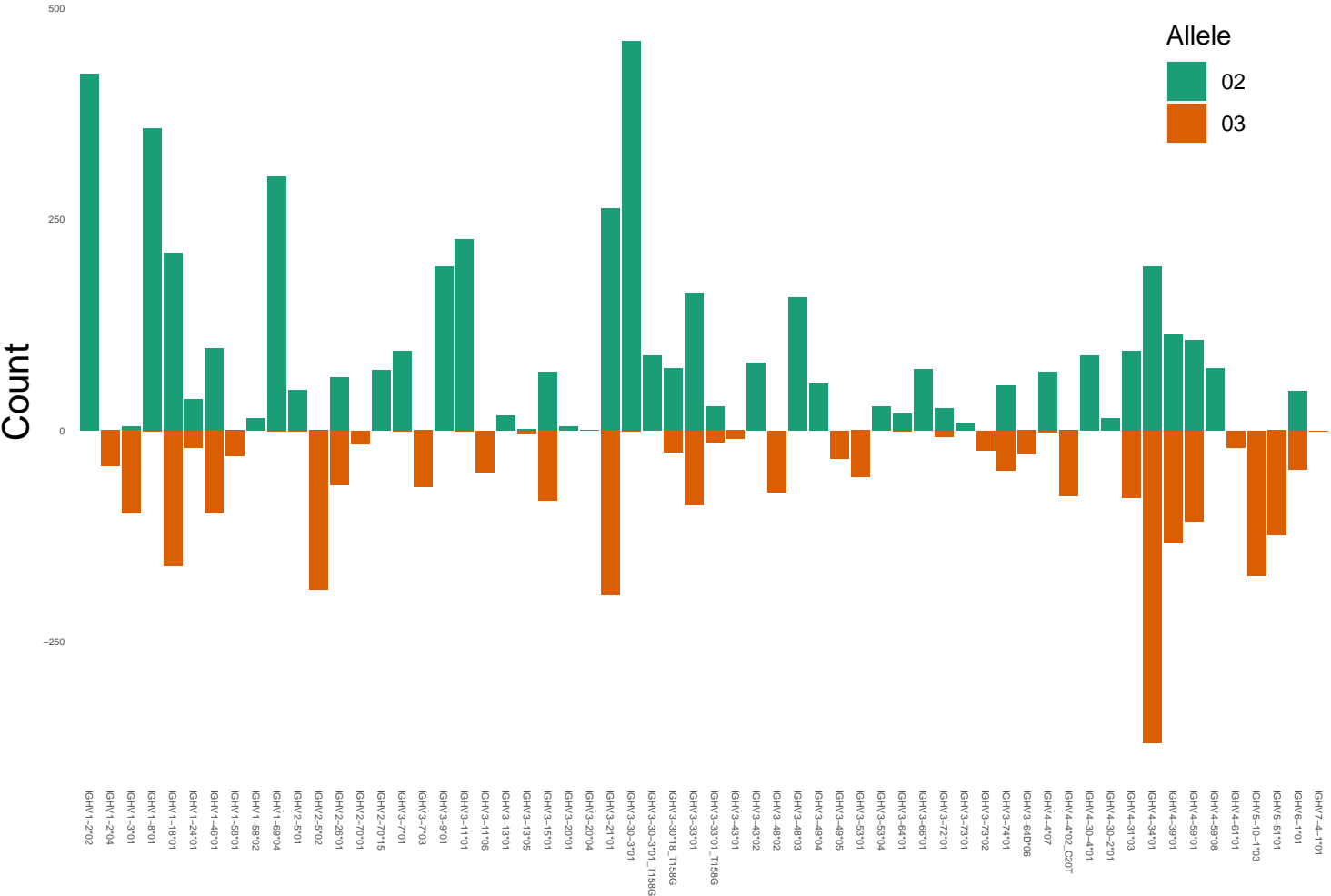
6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.