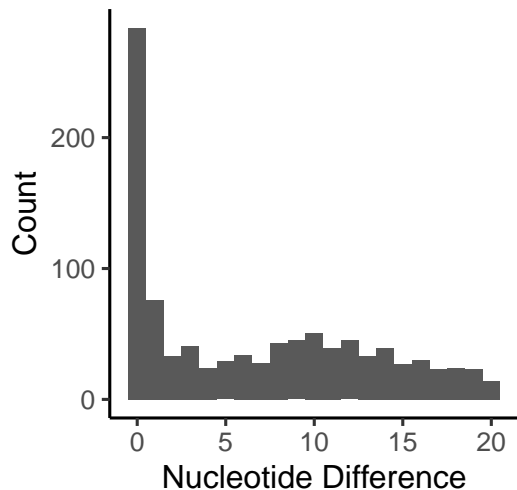


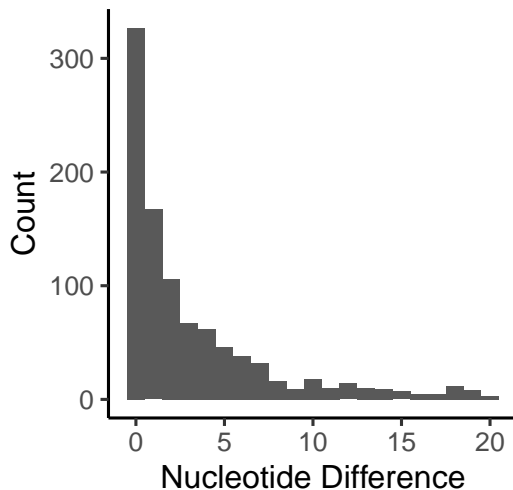
IGHV1-2*02

1063 sequences assigned
284 (26.7%) exact matches, in which:
275 unique CDR3
7 unique J



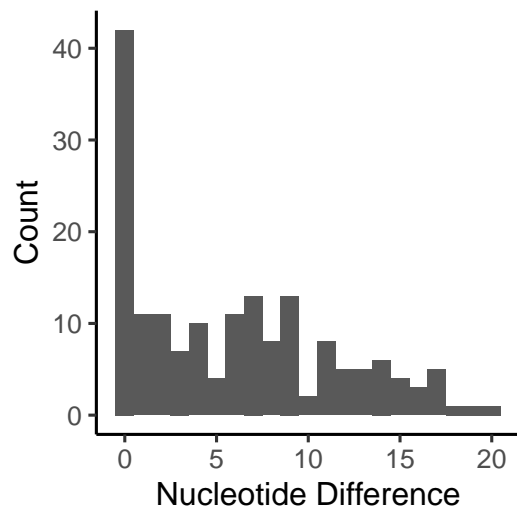
IGHV1-8*01

996 sequences assigned
327 (32.8%) exact matches, in which:
309 unique CDR3
6 unique J



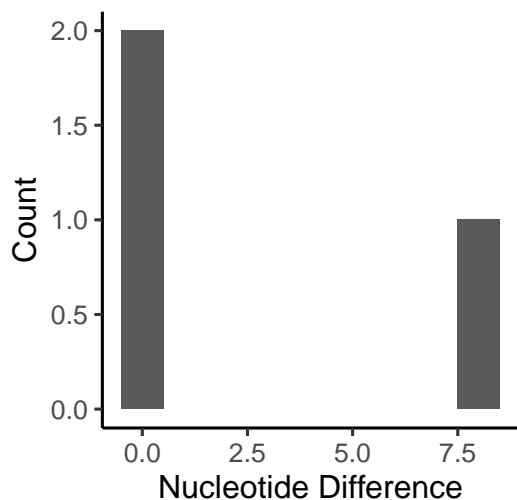
IGHV1-24*01

178 sequences assigned
42 (23.6%) exact matches, in which:
42 unique CDR3
6 unique J



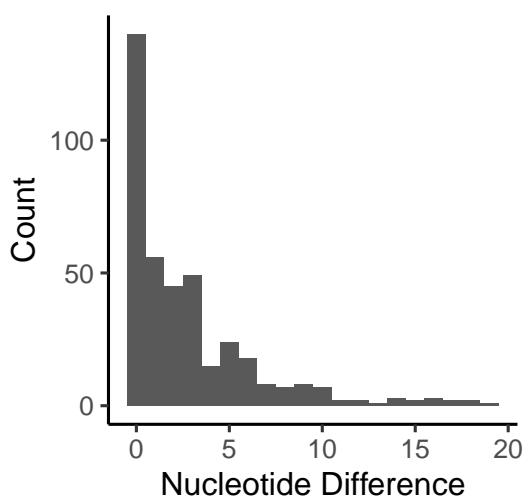
IGHV1-3*02

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



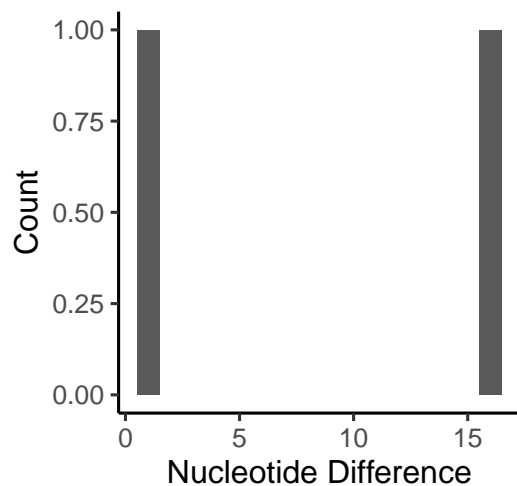
IGHV1-8*03

399 sequences assigned
140 (35.1%) exact matches, in which:
131 unique CDR3
6 unique J



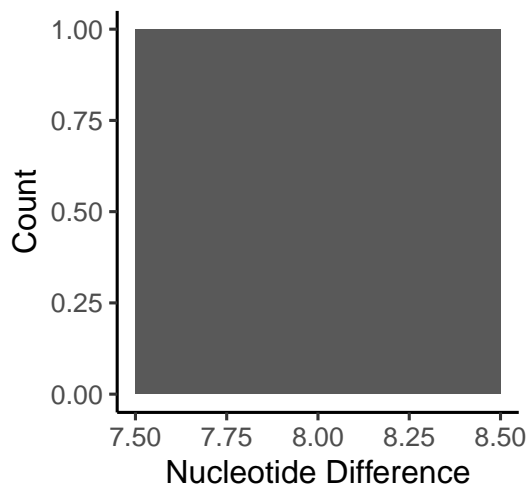
IGHV1-45*02

2 sequences assigned
No exact matches.



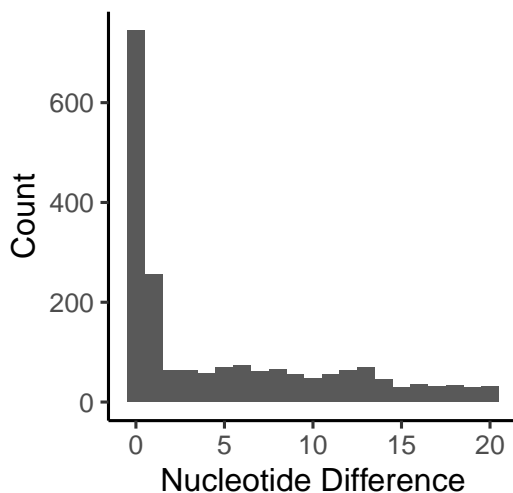
IGHV1-3*03

1 sequences assigned
No exact matches.



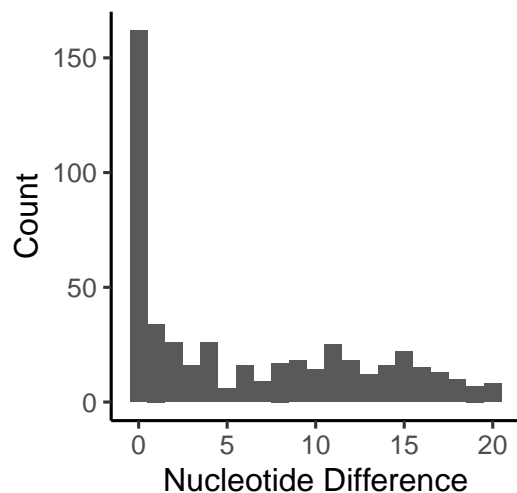
IGHV1-18*01

2131 sequences assigned
745 (35%) exact matches, in which:
699 unique CDR3
7 unique J



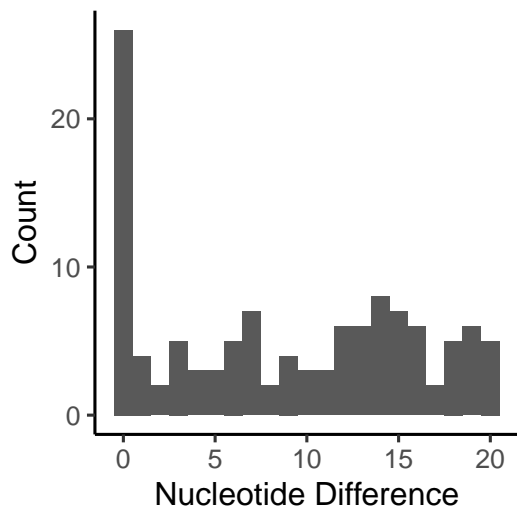
IGHV1-46*01

516 sequences assigned
162 (31.4%) exact matches, in which:
155 unique CDR3
7 unique J



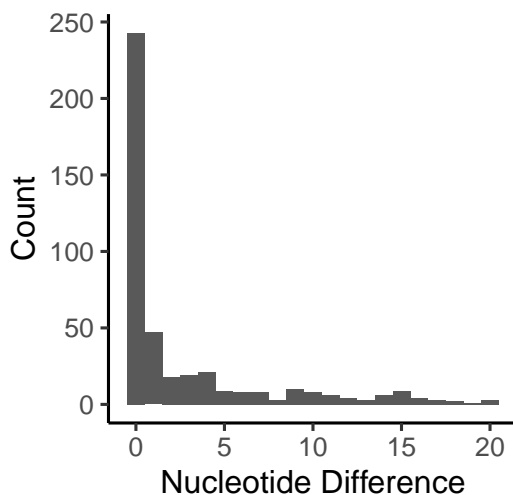
IGHV1-58*02

133 sequences assigned
26 (19.5%) exact matches, in which:
25 unique CDR3
5 unique J



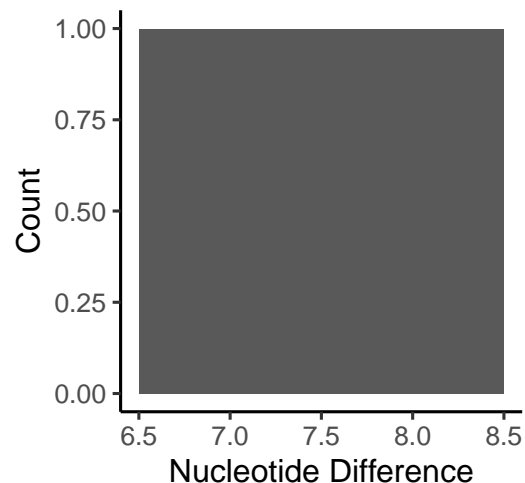
IGHV1-69*04_09

453 sequences assigned
243 (53.6%) exact matches, in which:
238 unique CDR3
6 unique J



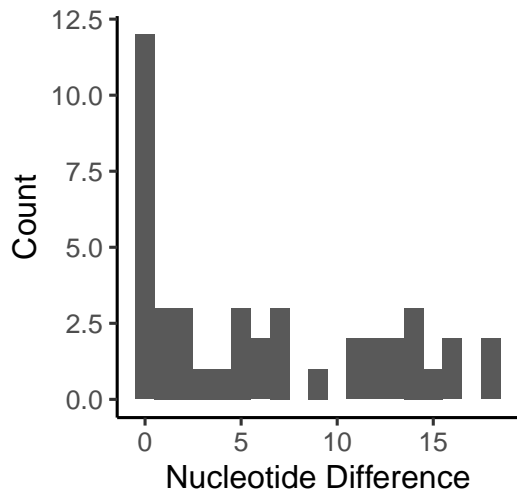
IGHV2-70*11_15

2 sequences assigned
No exact matches.



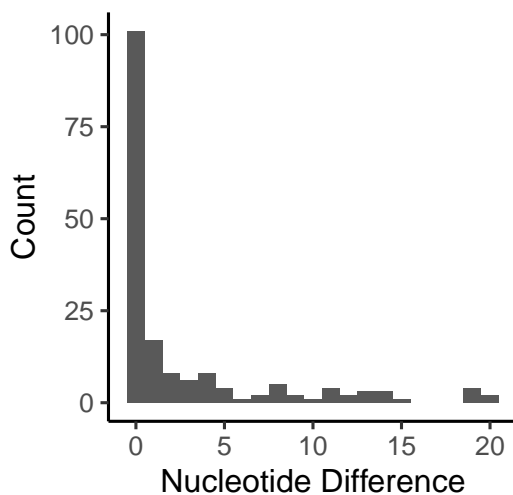
IGHV1-69-2*01

44 sequences assigned
12 (27.3%) exact matches, in which:
12 unique CDR3
3 unique J



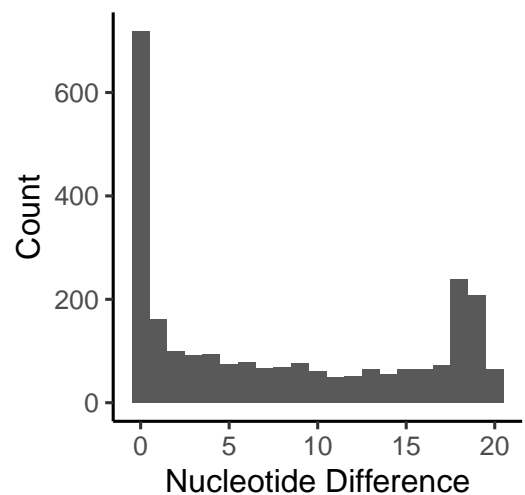
IGHV1-69*04_09_G112A

178 sequences assigned
101 (56.7%) exact matches, in which:
99 unique CDR3
6 unique J



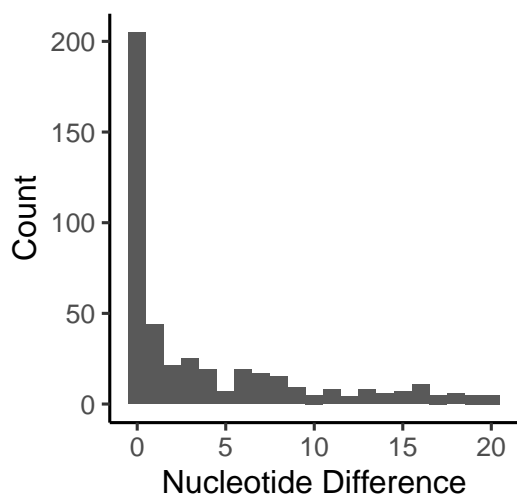
IGHV3-7*01

2662 sequences assigned
719 (27%) exact matches, in which:
702 unique CDR3
7 unique J



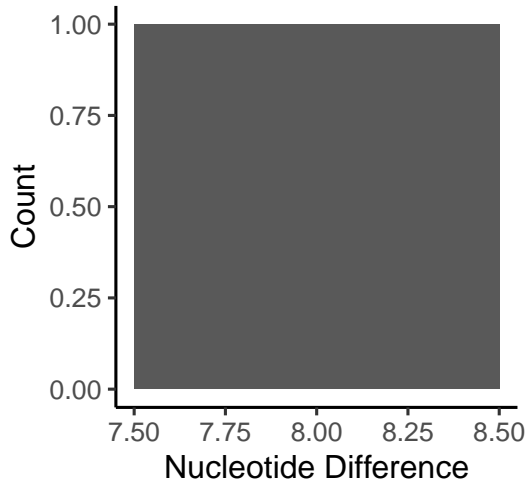
IGHV1-69*01_12_13

467 sequences assigned
205 (43.9%) exact matches, in which:
202 unique CDR3
6 unique J



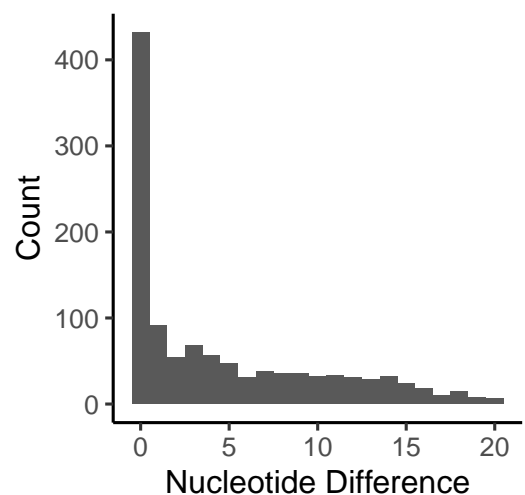
IGHV2-5*02

1 sequences assigned
No exact matches.



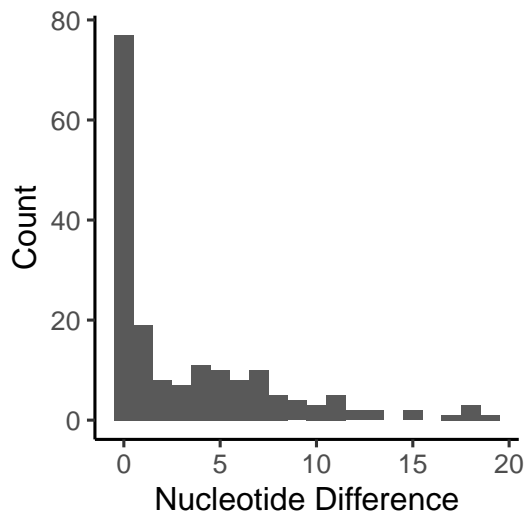
IGHV3-9*01

1147 sequences assigned
432 (37.7%) exact matches, in which:
425 unique CDR3
6 unique J



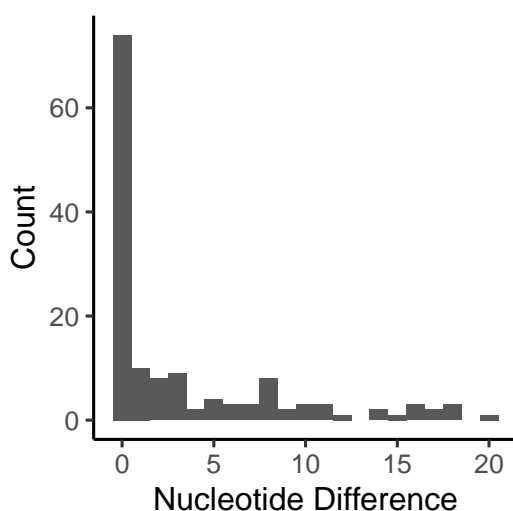
IGHV3-9*03

178 sequences assigned
77 (43.3%) exact matches, in which:
76 unique CDR3
5 unique J



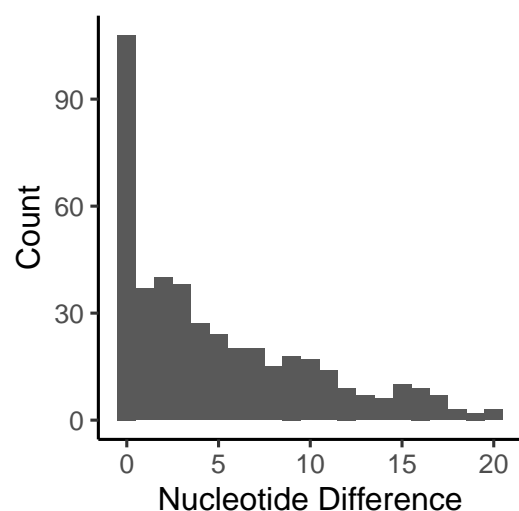
IGHV3-13*01

146 sequences assigned
74 (50.7%) exact matches, in which:
74 unique CDR3
6 unique J



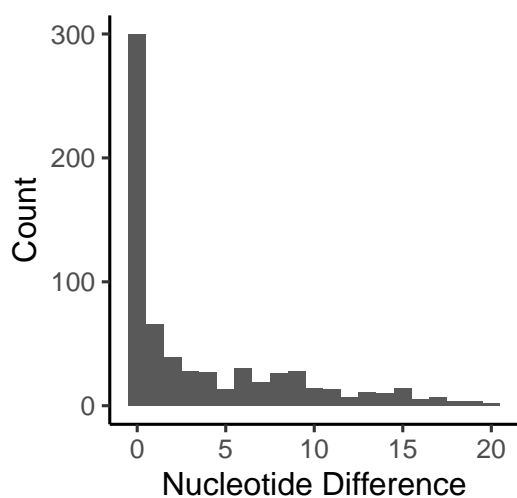
IGHV3-20*03_04

443 sequences assigned
108 (24.4%) exact matches, in which:
106 unique CDR3
7 unique J



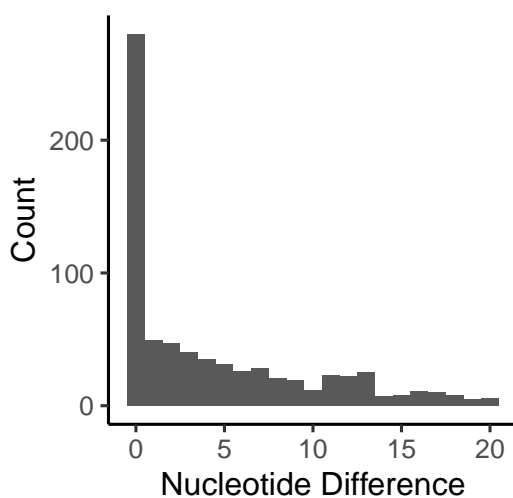
IGHV3-11*01

681 sequences assigned
300 (44.1%) exact matches, in which:
293 unique CDR3
6 unique J



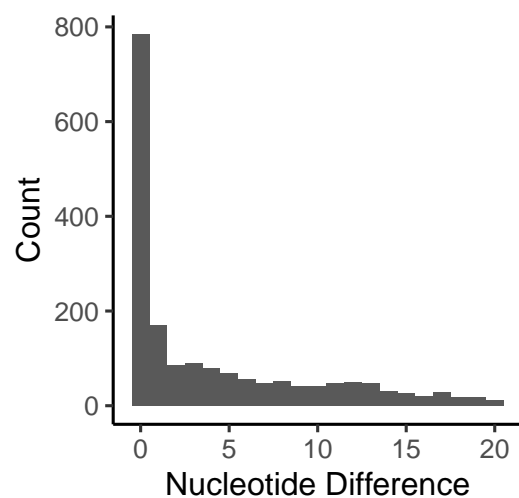
IGHV3-15*01_02

736 sequences assigned
280 (38%) exact matches, in which:
275 unique CDR3
7 unique J



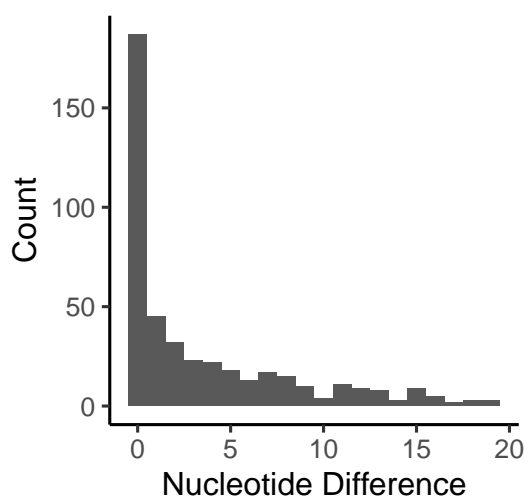
IGHV3-21*01_02

1884 sequences assigned
785 (41.7%) exact matches, in which:
763 unique CDR3
7 unique J



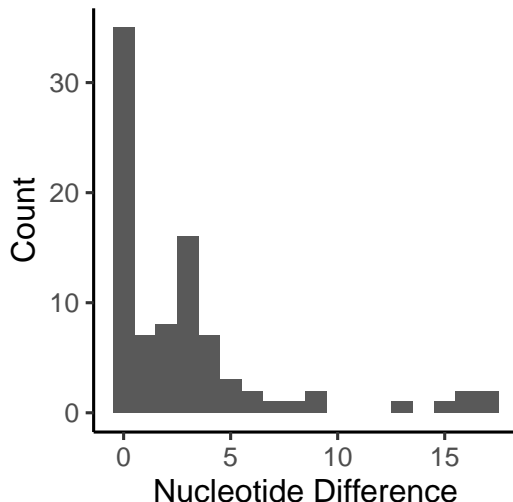
IGHV3-11*04

446 sequences assigned
187 (41.9%) exact matches, in which:
179 unique CDR3
6 unique J



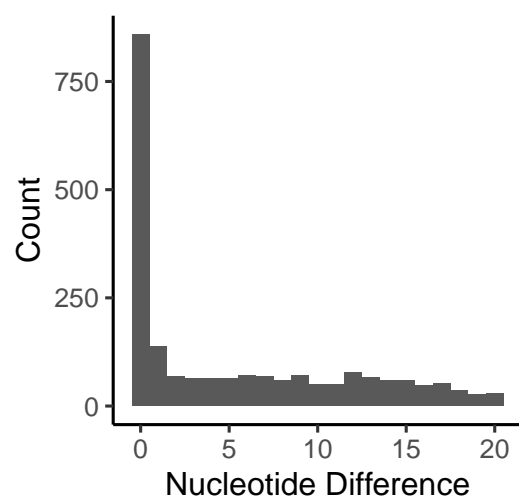
IGHV3-20*01_02

88 sequences assigned
35 (39.8%) exact matches, in which:
34 unique CDR3
5 unique J



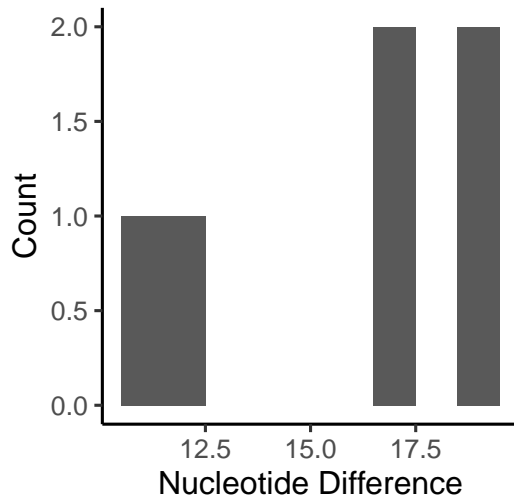
IGHV3-23*01_04

2265 sequences assigned
859 (37.9%) exact matches, in which:
842 unique CDR3
7 unique J



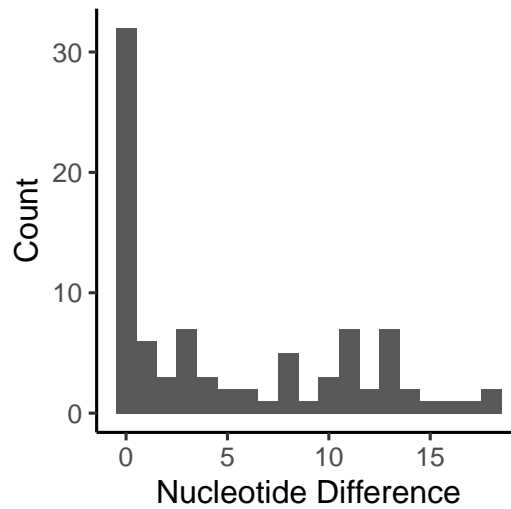
IGHV3-30-5*01

9 sequences assigned
No exact matches.



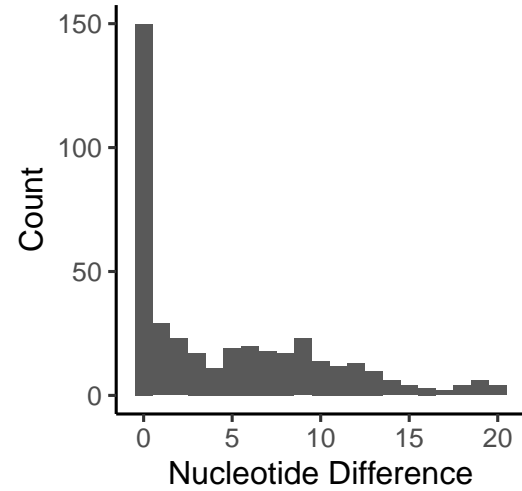
IGHV3-43*01

90 sequences assigned
32 (35.6%) exact matches, in which:
30 unique CDR3
4 unique J



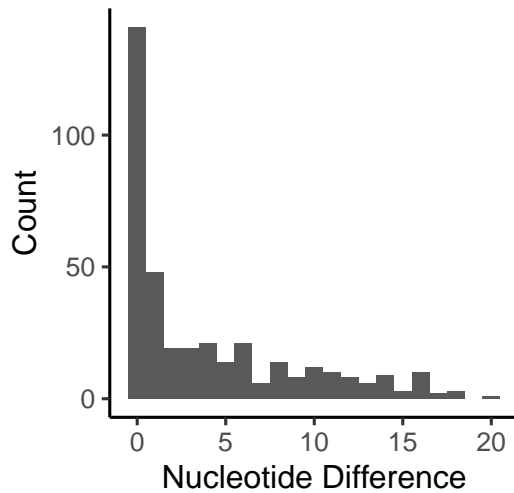
IGHV3-49*04

414 sequences assigned
150 (36.2%) exact matches, in which:
147 unique CDR3
7 unique J



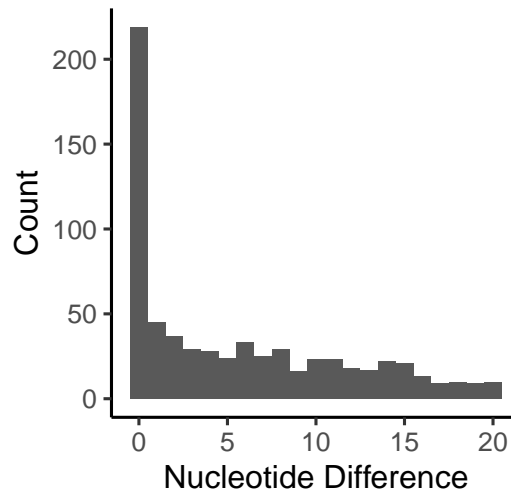
IGHV3-30*18_C170G_A'

378 sequences assigned
141 (37.3%) exact matches, in which:
138 unique CDR3
7 unique J



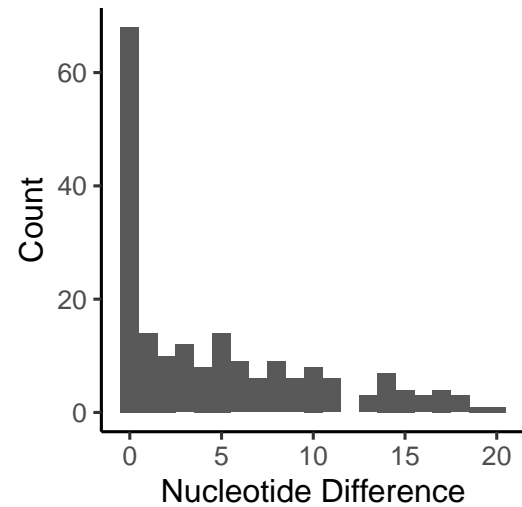
IGHV3-43*02

677 sequences assigned
219 (32.3%) exact matches, in which:
211 unique CDR3
6 unique J



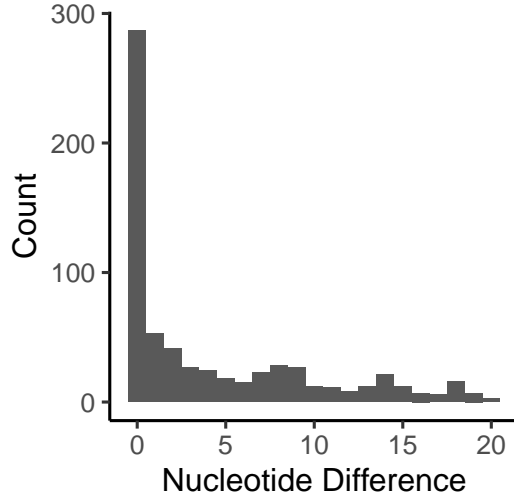
IGHV3-49*03_05

200 sequences assigned
68 (34%) exact matches, in which:
67 unique CDR3
6 unique J



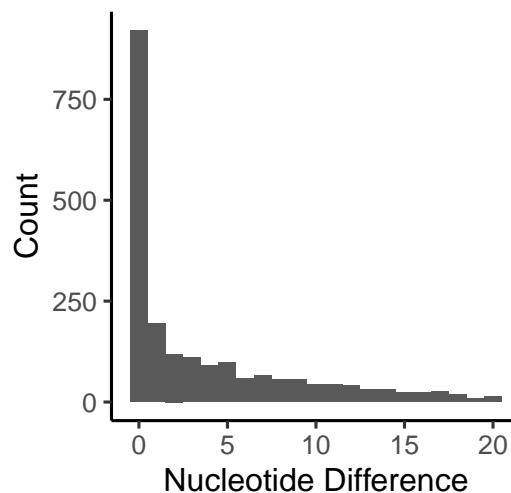
IGHV3-33*01

671 sequences assigned
287 (42.8%) exact matches, in which:
232 unique CDR3
7 unique J



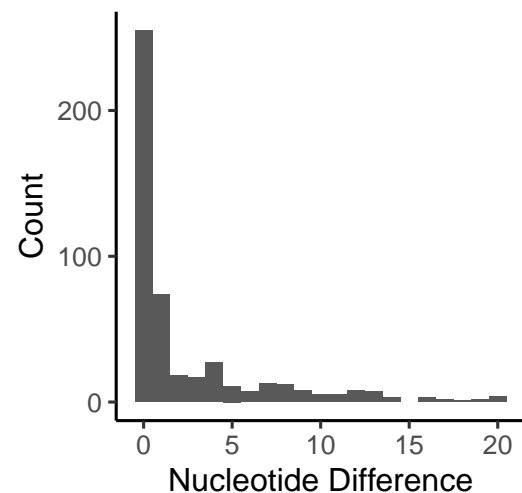
IGHV3-48*03

2118 sequences assigned
921 (43.5%) exact matches, in which:
907 unique CDR3
7 unique J



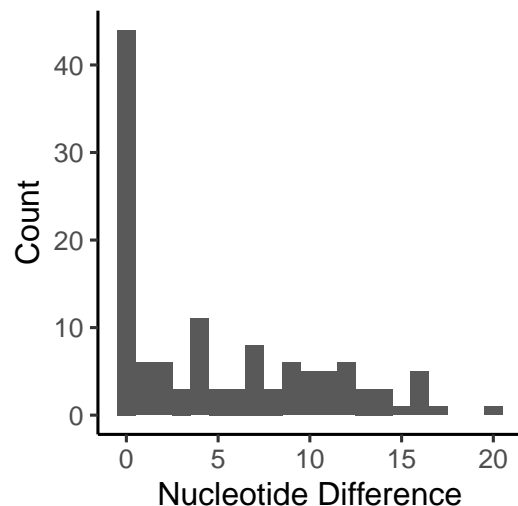
IGHV3-53*04

497 sequences assigned
255 (51.3%) exact matches, in which:
234 unique CDR3
7 unique J



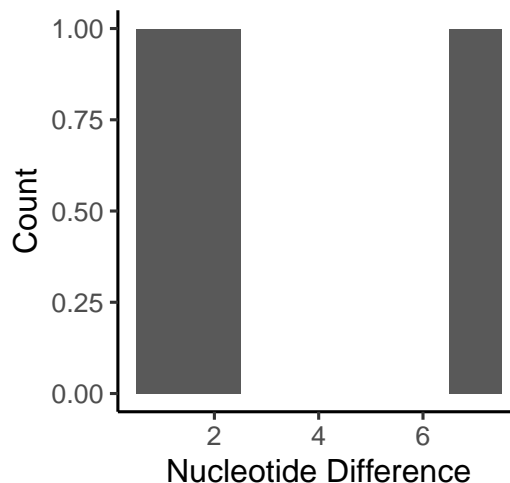
IGHV3-64*01

134 sequences assigned
44 (32.8%) exact matches, in which:
42 unique CDR3
6 unique J



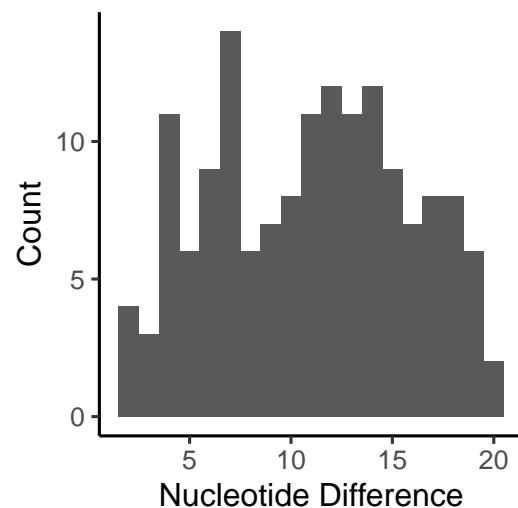
IGHV3-69-1*02

4 sequences assigned
No exact matches.



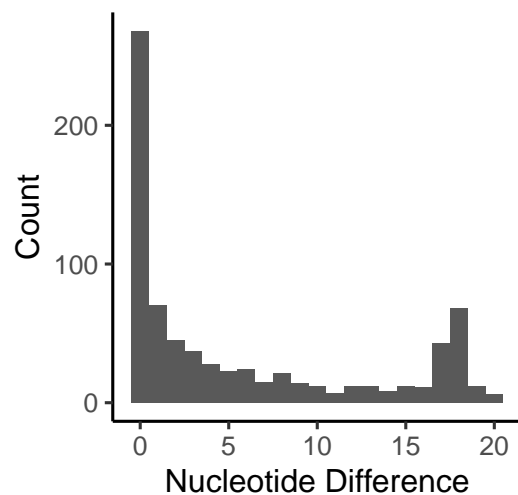
IGHV3-74*03

176 sequences assigned
No exact matches.



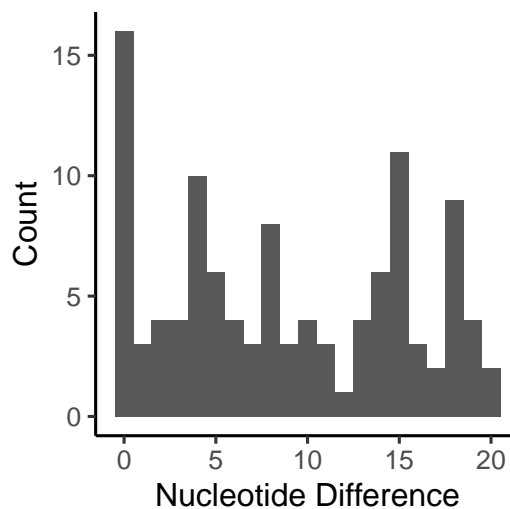
IGHV3-66*01

771 sequences assigned
268 (34.8%) exact matches, in which:
256 unique CDR3
6 unique J



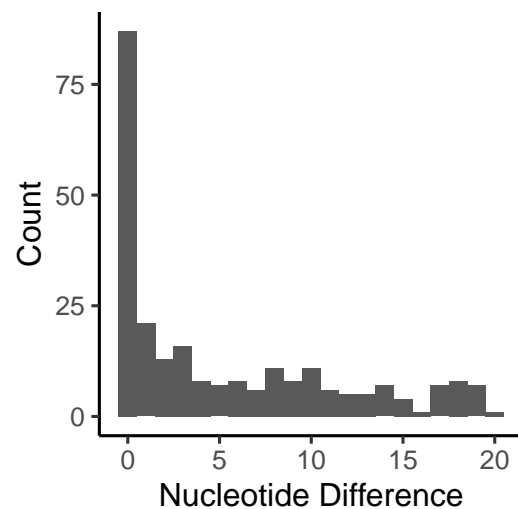
IGHV3-72*01

127 sequences assigned
16 (12.6%) exact matches, in which:
16 unique CDR3
4 unique J



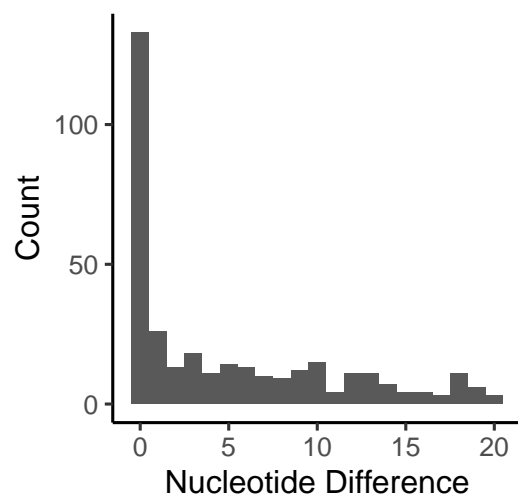
IGHV3-74*01_02

263 sequences assigned
87 (33.1%) exact matches, in which:
86 unique CDR3
7 unique J



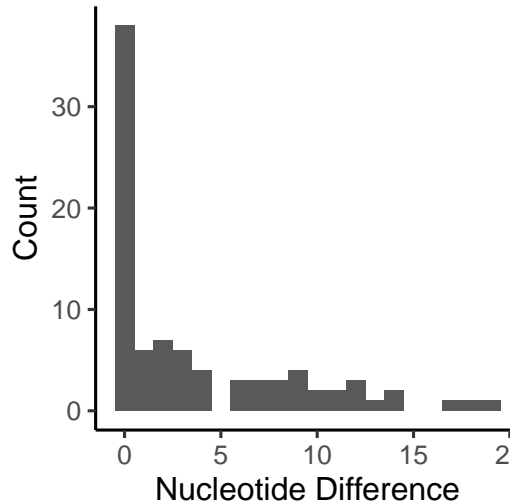
IGHV3-66*02

360 sequences assigned
133 (36.9%) exact matches, in which:
130 unique CDR3
6 unique J



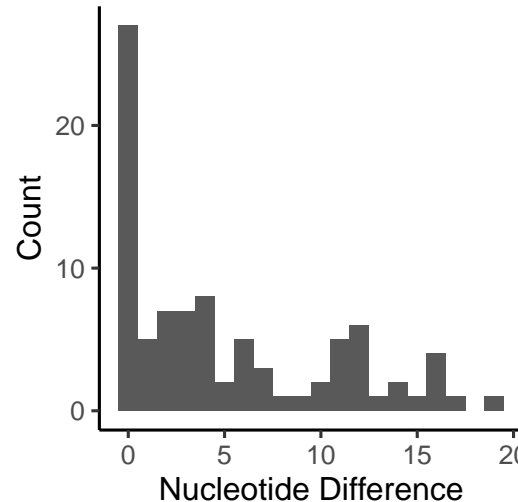
IGHV3-73*01_02

91 sequences assigned
38 (41.8%) exact matches, in which:
37 unique CDR3
7 unique J



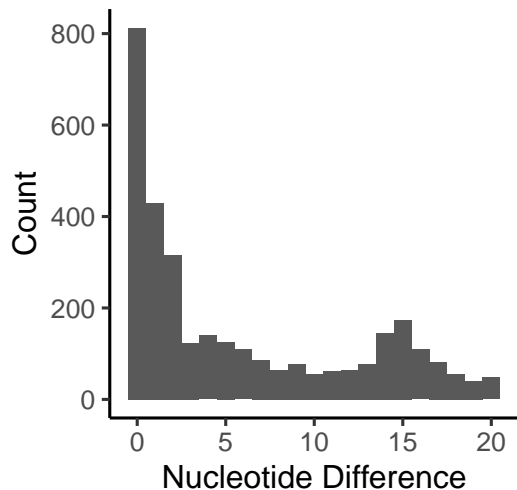
IGHV3-43D*04

91 sequences assigned
27 (29.7%) exact matches, in which:
26 unique CDR3
5 unique J



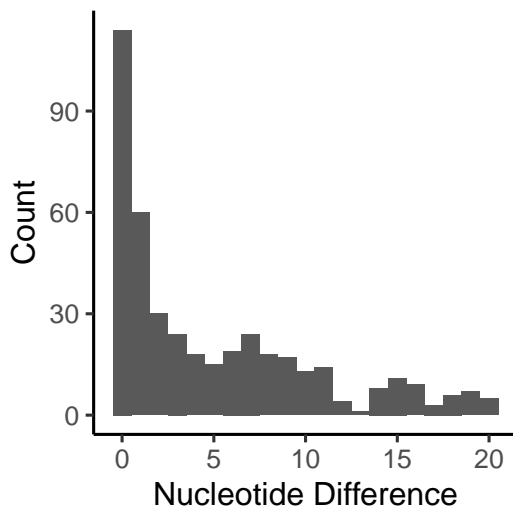
IGHV4-4*07

3283 sequences assigned
813 (24.8%) exact matches, in which:
623 unique CDR3
7 unique J



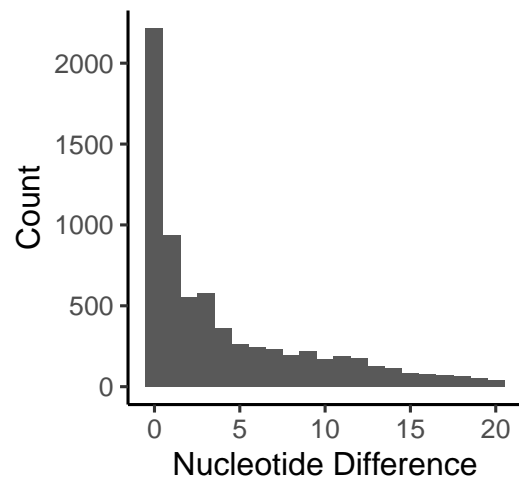
IGHV4-31*02_C198T

448 sequences assigned
114 (25.4%) exact matches, in which:
100 unique CDR3
6 unique J



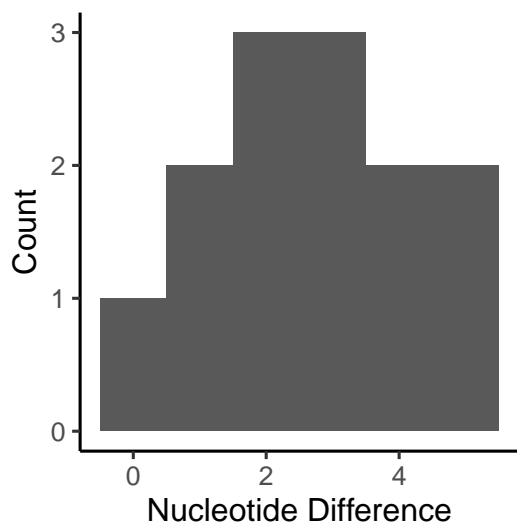
IGHV4-39*02_C258G

7209 sequences assigned
2215 (30.7%) exact matches, in which:
1669 unique CDR3
7 unique J



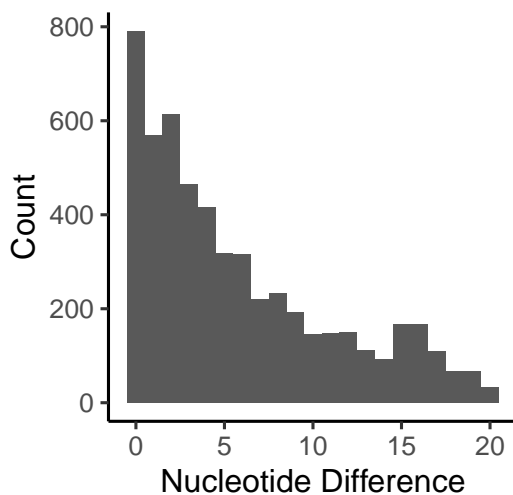
IGHV4-28*02_05

13 sequences assigned
1 (7.7%) exact matches, in which:
1 unique CDR3
1 unique J



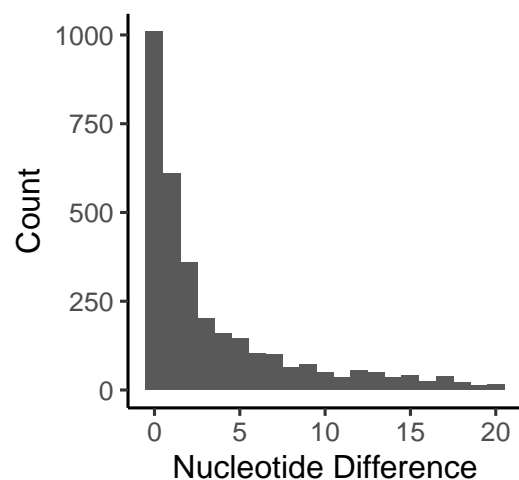
IGHV4-34*01_02

5500 sequences assigned
791 (14.4%) exact matches, in which:
631 unique CDR3
7 unique J



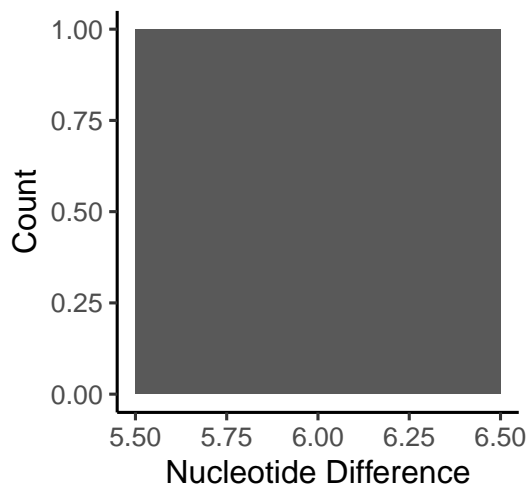
IGHV4-59*08

3272 sequences assigned
1009 (30.8%) exact matches, in which:
832 unique CDR3
7 unique J



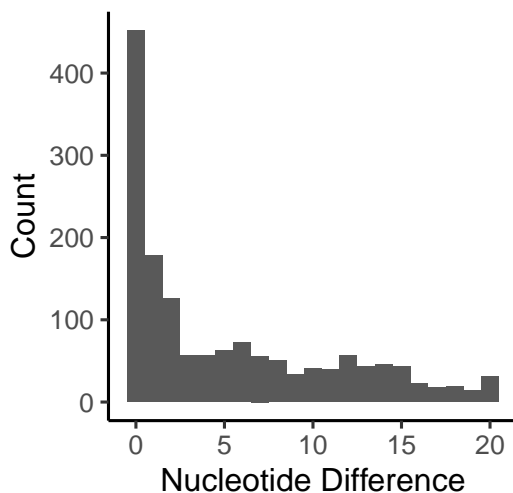
IGHV4-30-4*07

1 sequences assigned
No exact matches.



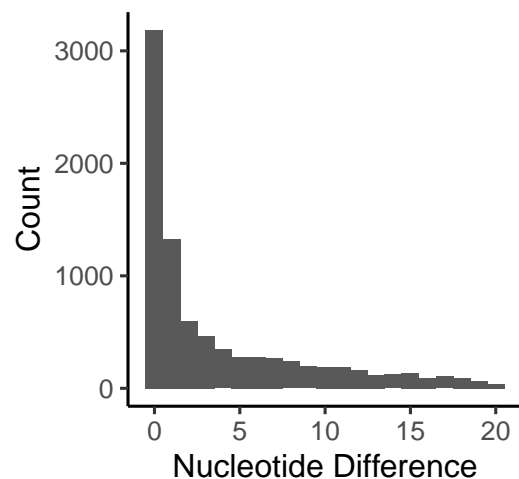
IGHV4-38-2*01

1620 sequences assigned
452 (27.9%) exact matches, in which:
365 unique CDR3
7 unique J



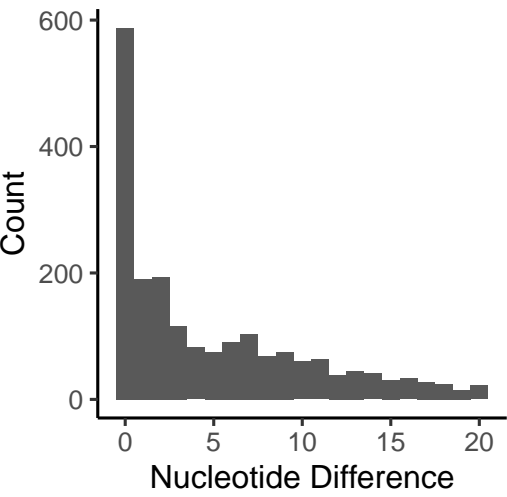
IGHV4-59*02_G88A

8679 sequences assigned
3185 (36.7%) exact matches, in which:
2438 unique CDR3
7 unique J



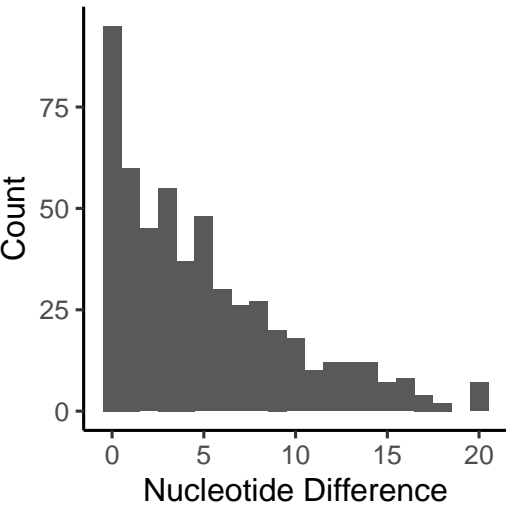
IGHV4–61*02

2061 sequences assigned
588 (28.5%) exact matches, in which:
518 unique CDR3
7 unique J



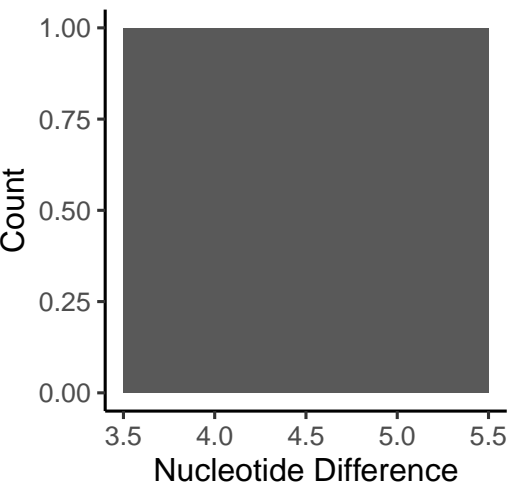
IGHV6–1*01_02

550 sequences assigned
95 (17.3%) exact matches, in which:
84 unique CDR3
7 unique J



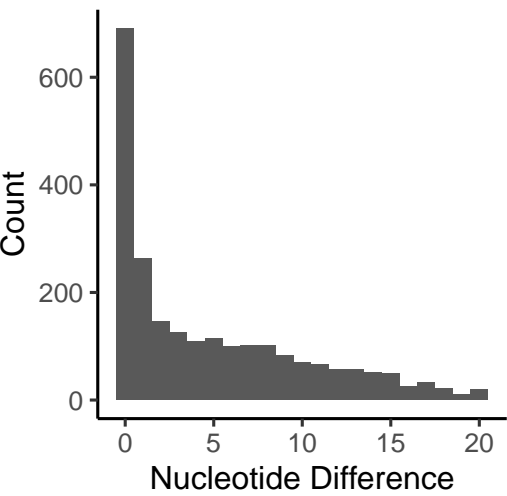
IGHV4/OR15–8*01

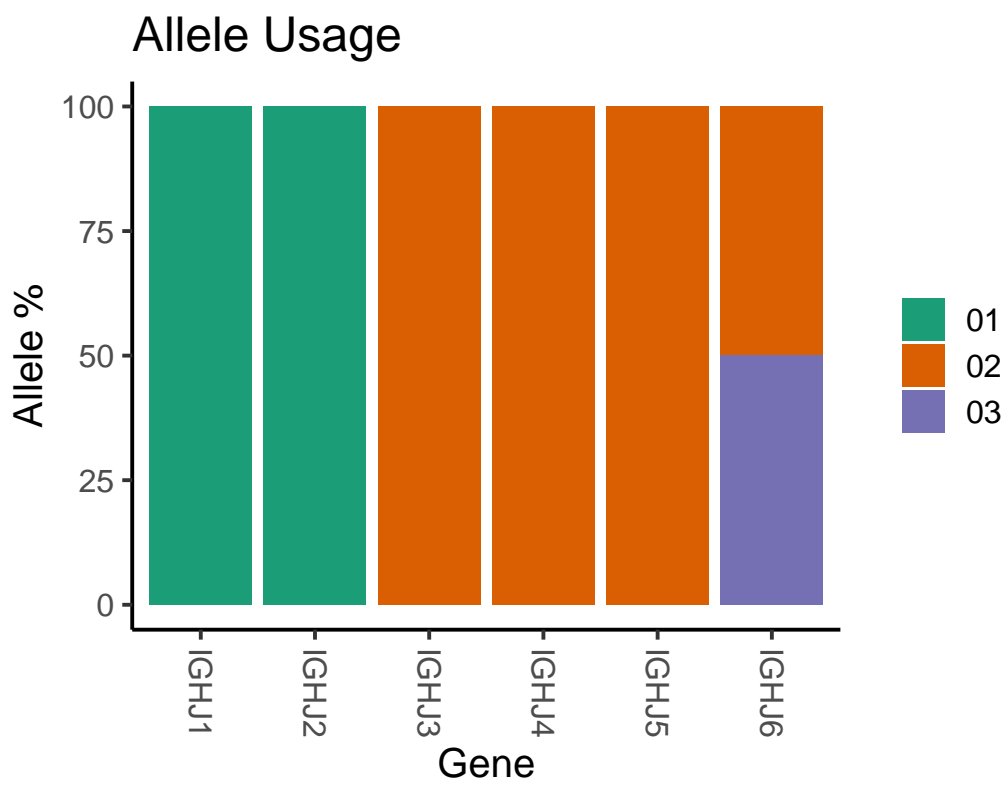
2 sequences assigned
No exact matches.



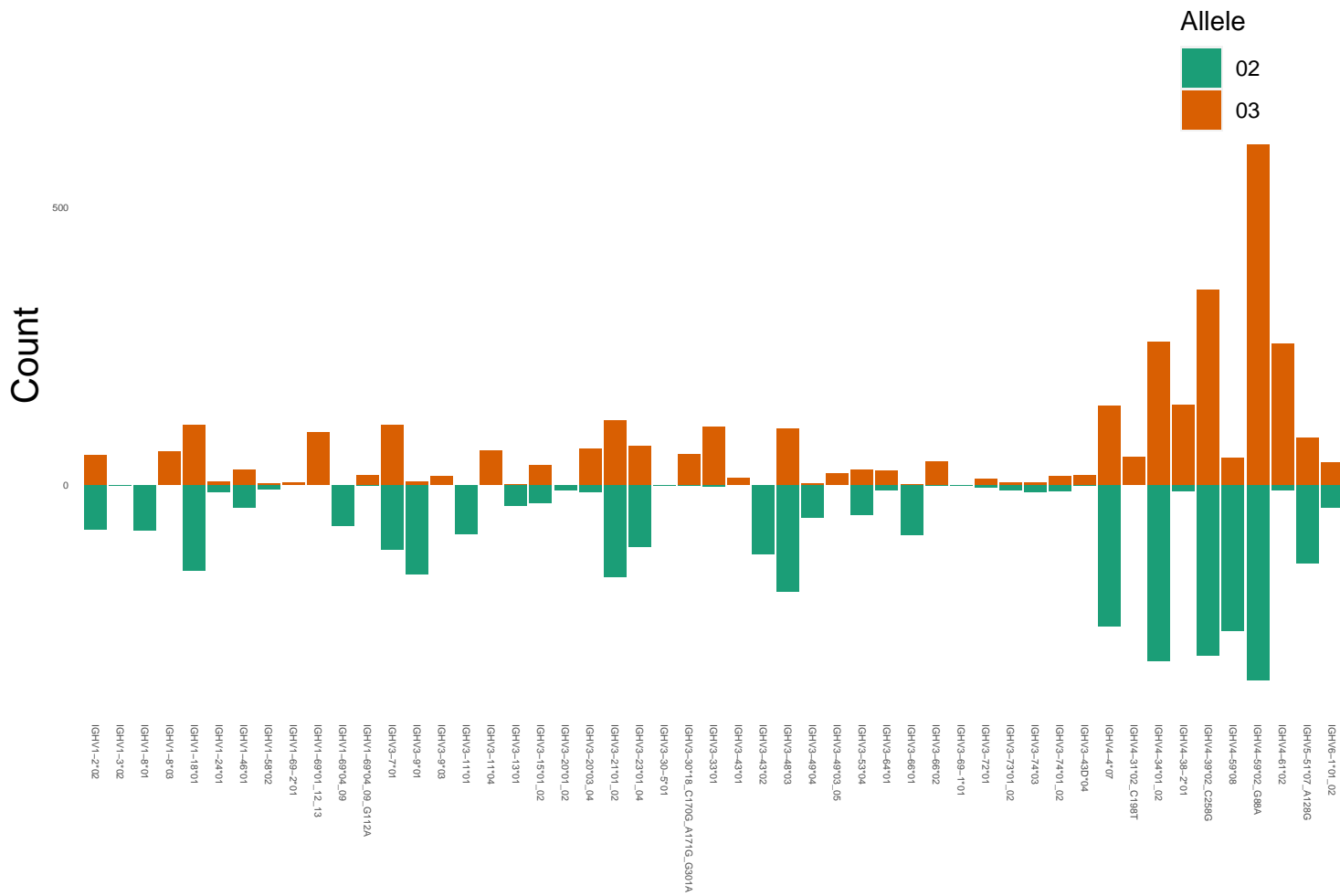
IGHV5–51*07_A128G

2346 sequences assigned
691 (29.5%) exact matches, in which:
657 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.