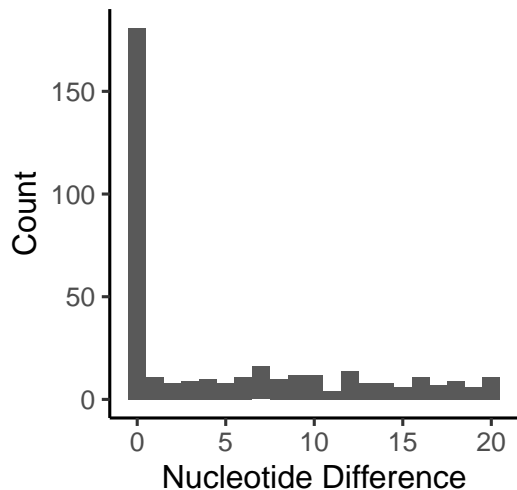


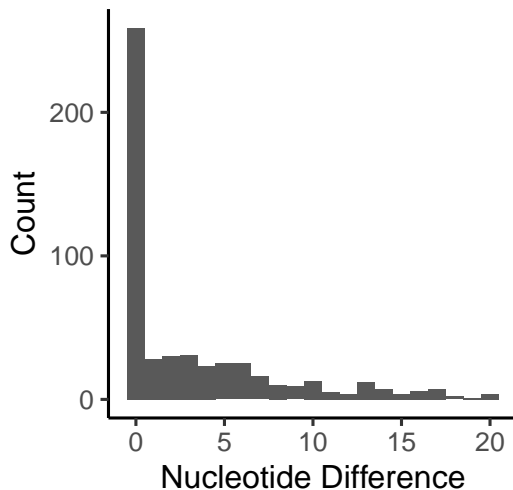
IGHV1-2*02

401 sequences assigned
181 (45.1%) exact matches, in which:
181 unique CDR3
6 unique J



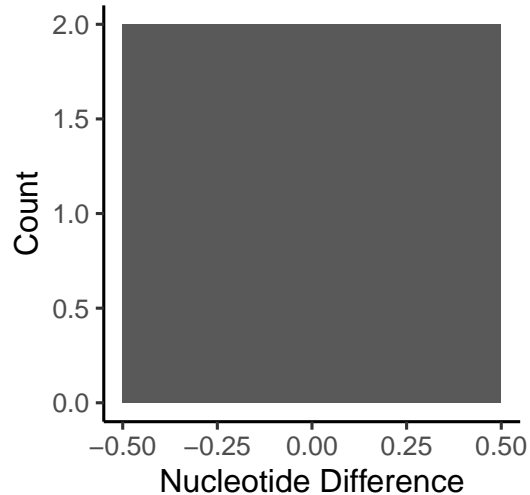
IGHV1-8*01

553 sequences assigned
259 (46.8%) exact matches, in which:
258 unique CDR3
6 unique J



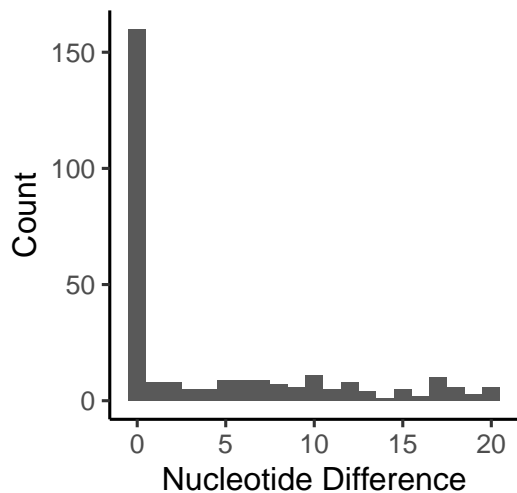
IGHV1-45*02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



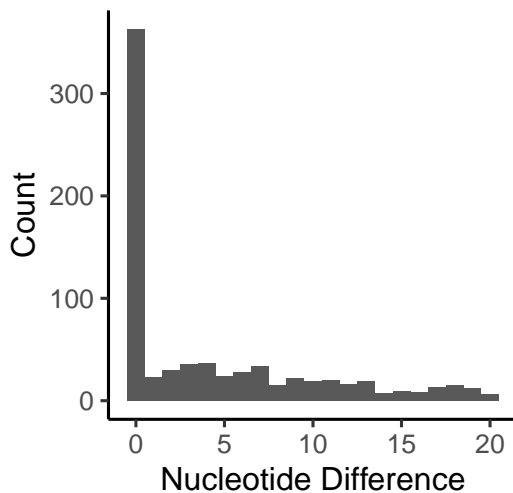
IGHV1-2*06

351 sequences assigned
160 (45.6%) exact matches, in which:
160 unique CDR3
6 unique J



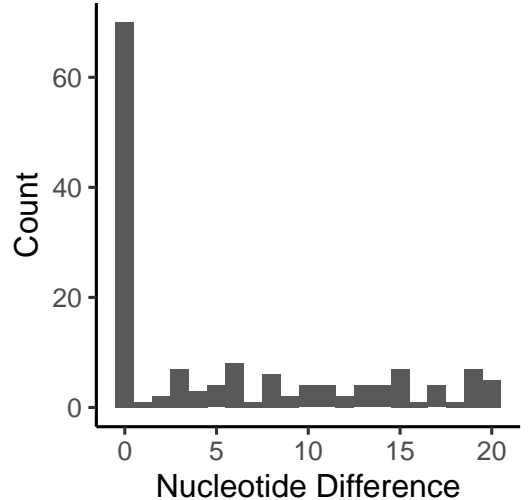
IGHV1-18*01

838 sequences assigned
363 (43.3%) exact matches, in which:
363 unique CDR3
7 unique J



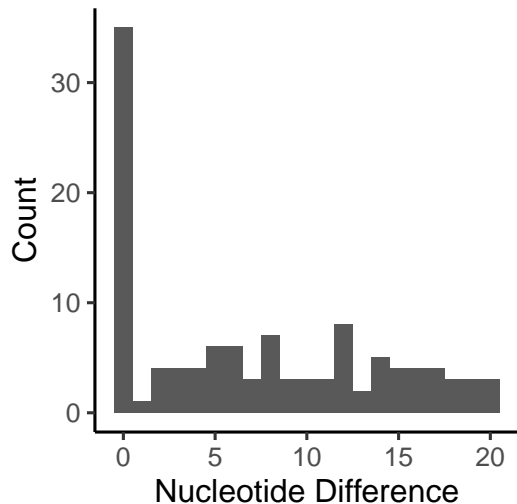
IGHV1-46*01

179 sequences assigned
70 (39.1%) exact matches, in which:
68 unique CDR3
6 unique J



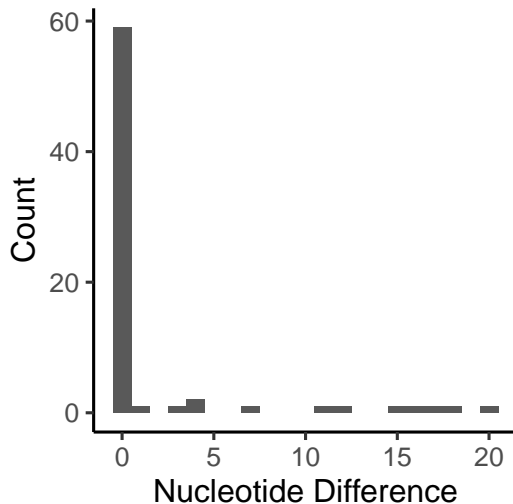
IGHV1-3*01_05

135 sequences assigned
35 (25.9%) exact matches, in which:
34 unique CDR3
4 unique J



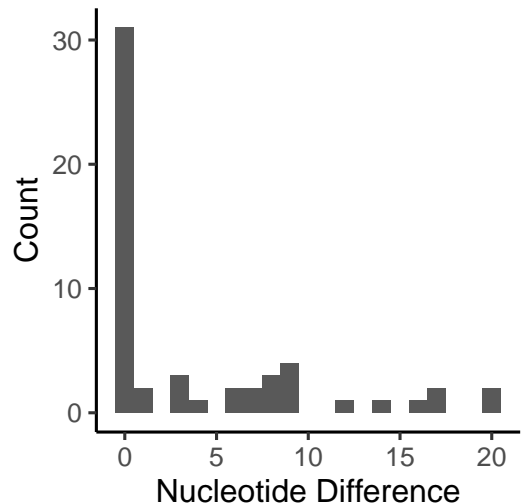
IGHV1-24*01

74 sequences assigned
59 (79.7%) exact matches, in which:
59 unique CDR3
7 unique J



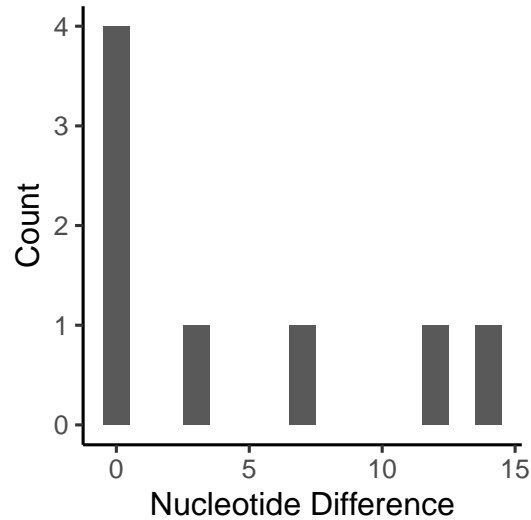
IGHV1-46*03

60 sequences assigned
31 (51.7%) exact matches, in which:
31 unique CDR3
5 unique J



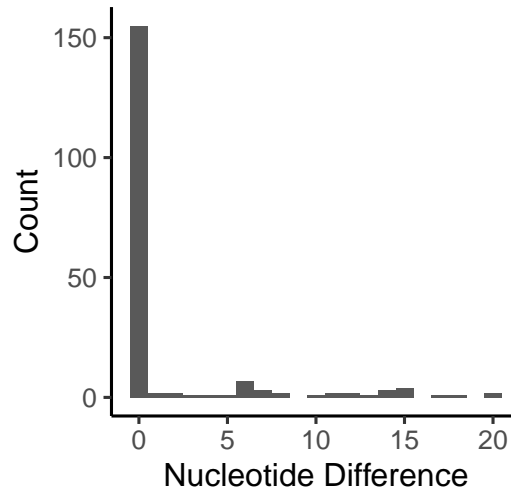
IGHV1-58*02

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



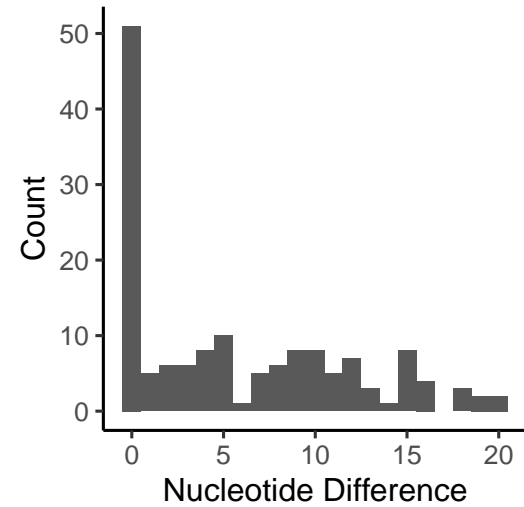
IGHV1-69*01_12_13

203 sequences assigned
155 (76.4%) exact matches, in which:
155 unique CDR3
6 unique J



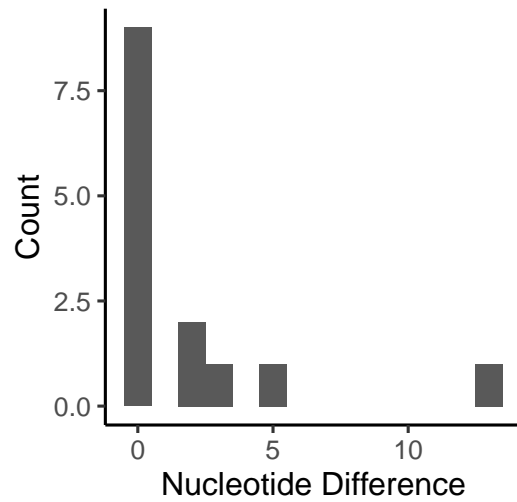
IGHV2-5*02

156 sequences assigned
51 (32.7%) exact matches, in which:
51 unique CDR3
6 unique J



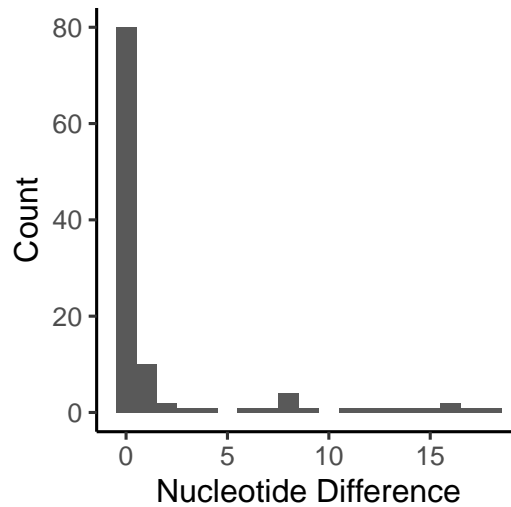
IGHV1-58*01_03

14 sequences assigned
9 (64.3%) exact matches, in which:
9 unique CDR3
3 unique J



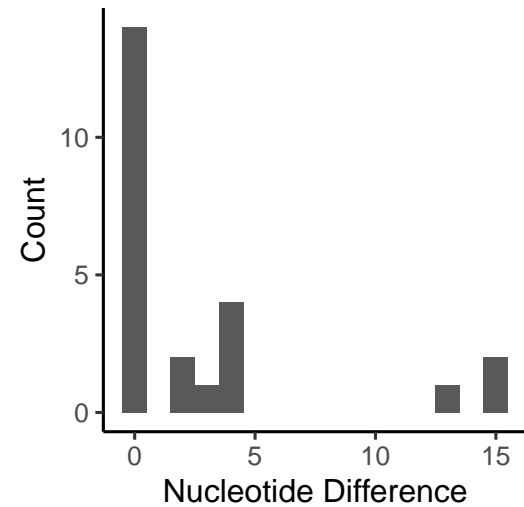
IGHV1-69*04_09

117 sequences assigned
80 (68.4%) exact matches, in which:
80 unique CDR3
6 unique J



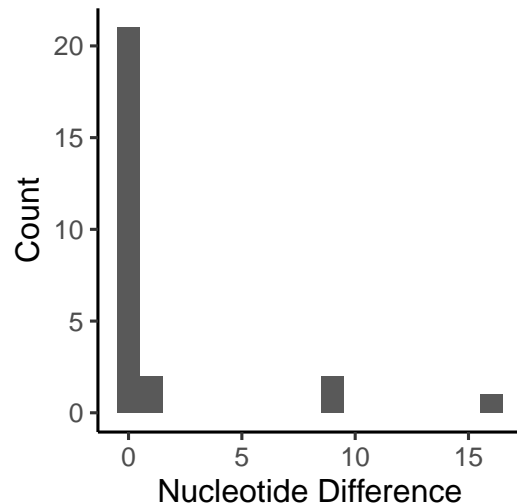
IGHV2-26*01

26 sequences assigned
14 (53.8%) exact matches, in which:
14 unique CDR3
5 unique J



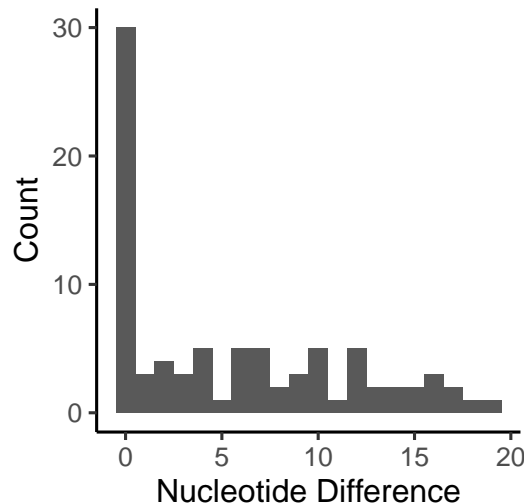
IGHV1-69*02

31 sequences assigned
21 (67.7%) exact matches, in which:
21 unique CDR3
6 unique J



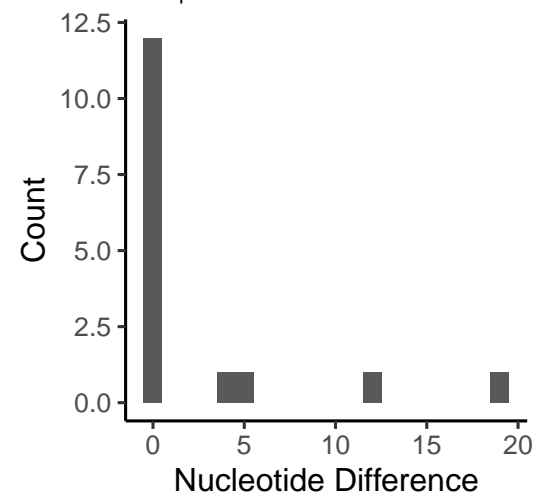
IGHV2-5*01

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



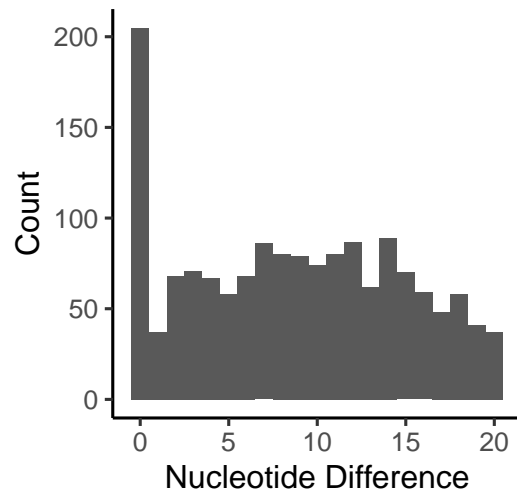
IGHV2-70*01

17 sequences assigned
12 (70.6%) exact matches, in which:
11 unique CDR3
3 unique J



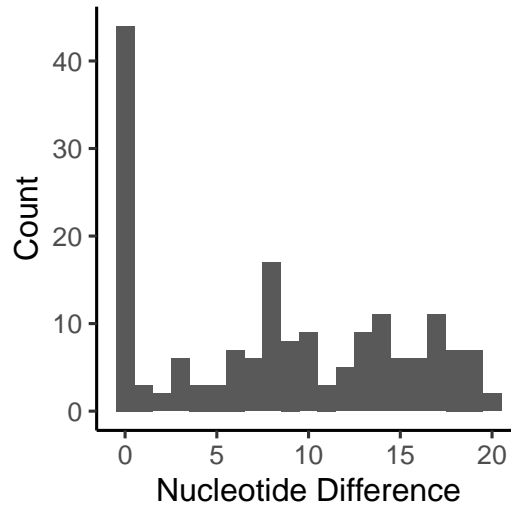
IGHV3-7*01

1707 sequences assigned
205 (12%) exact matches, in which:
198 unique CDR3
7 unique J



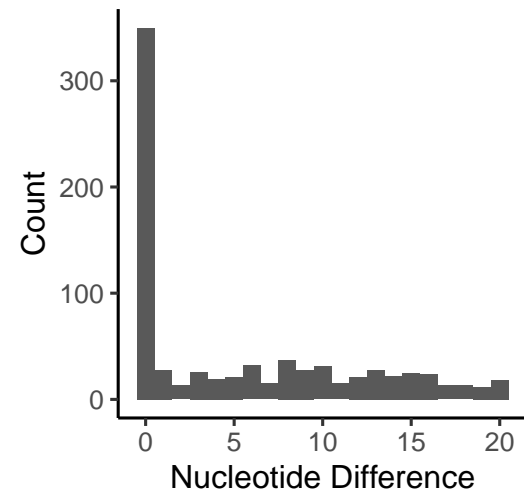
IGHV3-13*01

190 sequences assigned
44 (23.2%) exact matches, in which:
43 unique CDR3
6 unique J



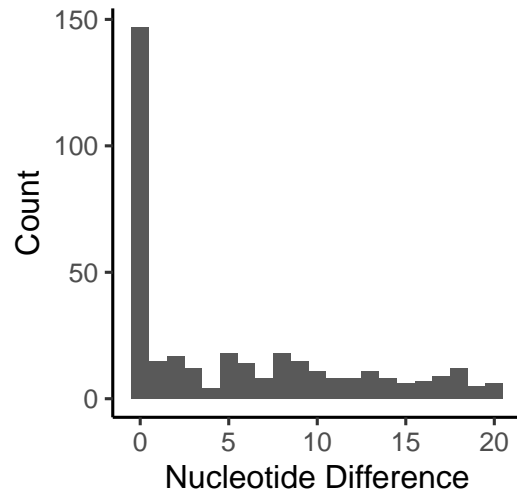
IGHV3-21*01_02

870 sequences assigned
350 (40.2%) exact matches, in which:
343 unique CDR3
7 unique J



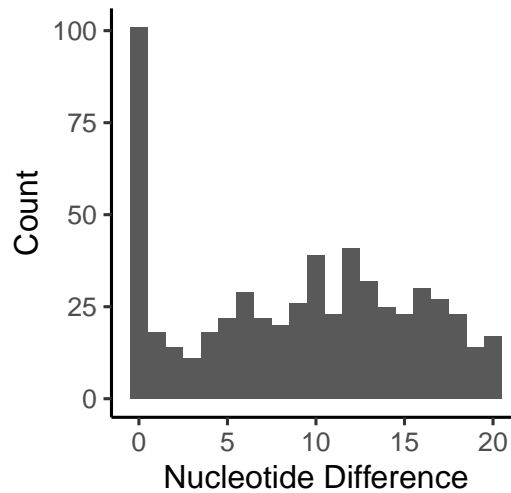
IGHV3-9*01

416 sequences assigned
147 (35.3%) exact matches, in which:
144 unique CDR3
7 unique J



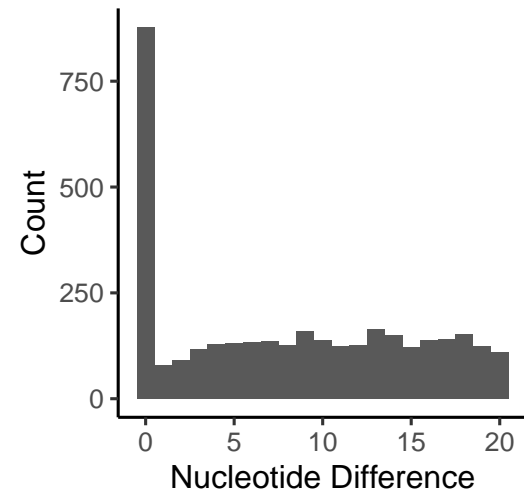
IGHV3-15*01_02

660 sequences assigned
101 (15.3%) exact matches, in which:
100 unique CDR3
7 unique J



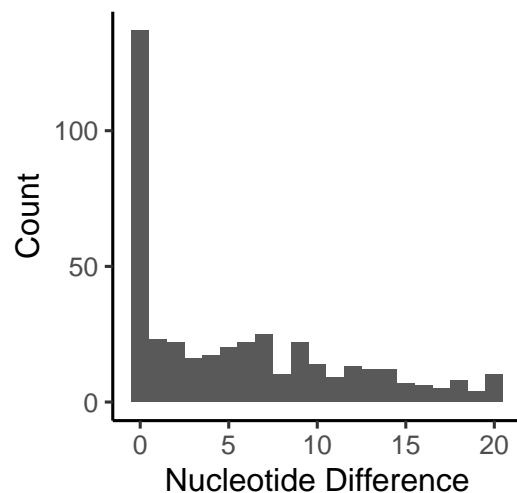
IGHV3-23*01_04

4235 sequences assigned
878 (20.7%) exact matches, in which:
846 unique CDR3
7 unique J



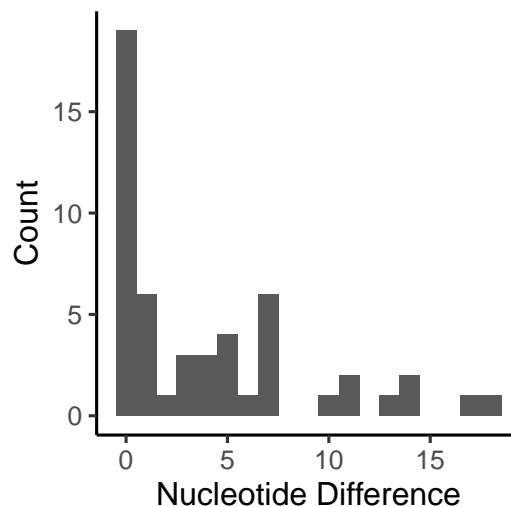
IGHV3-11*01

474 sequences assigned
137 (28.9%) exact matches, in which:
135 unique CDR3
7 unique J



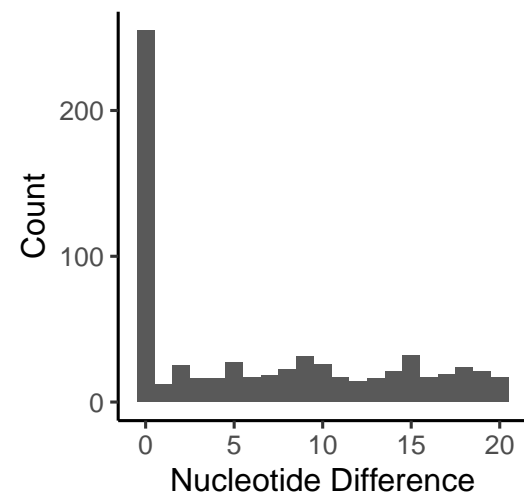
IGHV3-20*01_02

53 sequences assigned
19 (35.8%) exact matches, in which:
19 unique CDR3
6 unique J



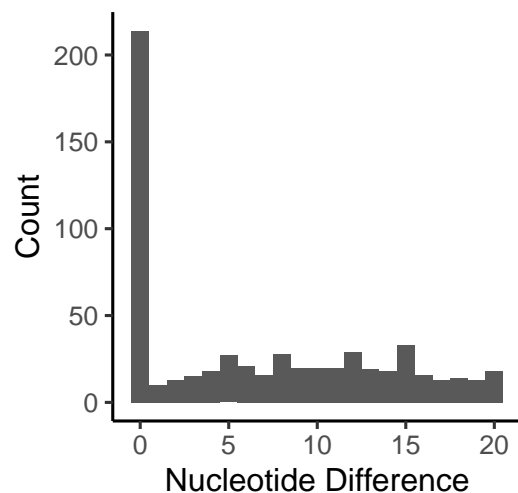
IGHV3-30-3*01

828 sequences assigned
255 (30.8%) exact matches, in which:
255 unique CDR3
7 unique J



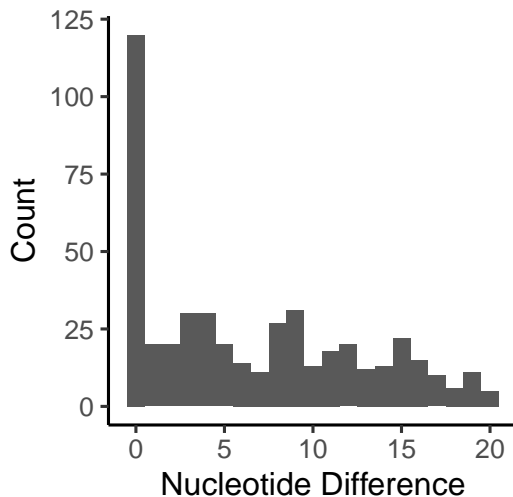
IGHV3-33*01

693 sequences assigned
214 (30.9%) exact matches, in which:
210 unique CDR3
7 unique J



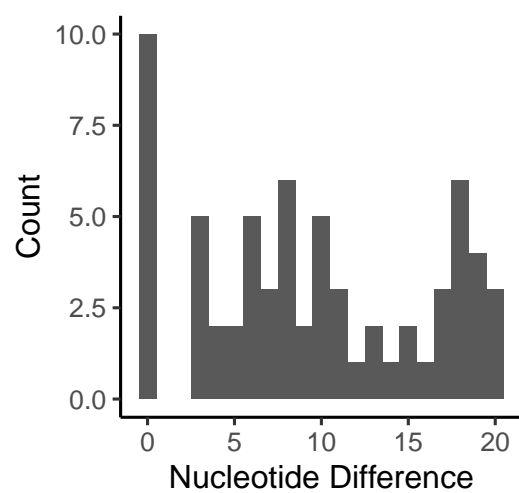
IGHV3-48*02

524 sequences assigned
120 (22.9%) exact matches, in which:
111 unique CDR3
5 unique J



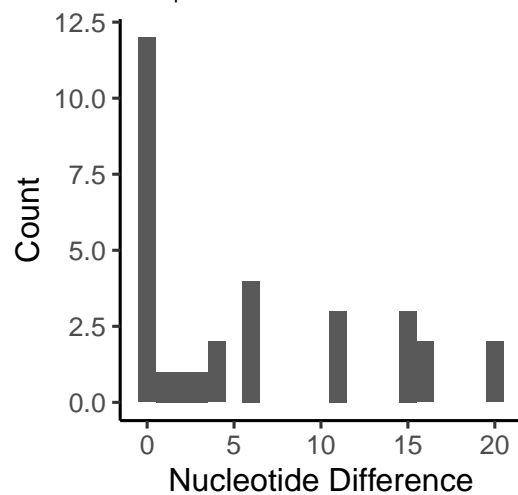
IGHV3-64*01

67 sequences assigned
10 (14.9%) exact matches, in which:
9 unique CDR3
3 unique J



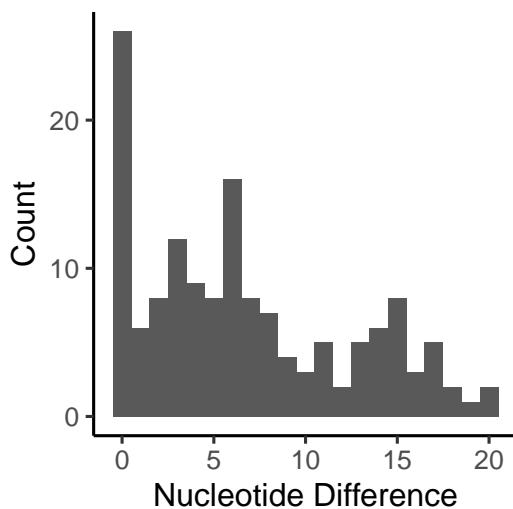
IGHV3-43*01

41 sequences assigned
12 (29.3%) exact matches, in which:
12 unique CDR3
4 unique J



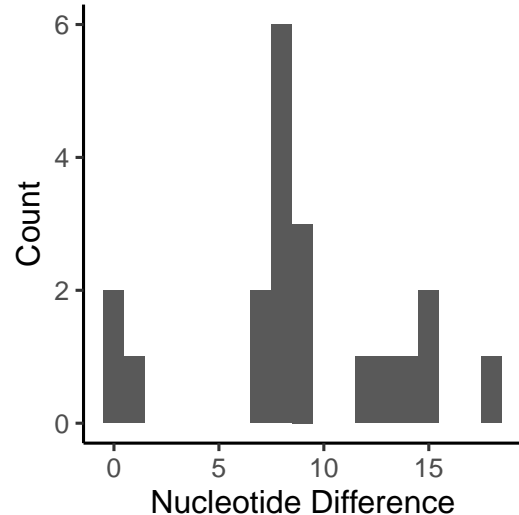
IGHV3-49*03_05

169 sequences assigned
26 (15.4%) exact matches, in which:
26 unique CDR3
5 unique J



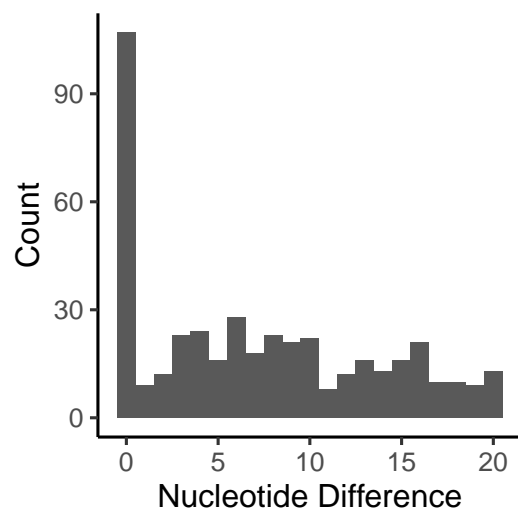
IGHV3-64*02_07

22 sequences assigned
2 (9.1%) exact matches, in which:
2 unique CDR3
1 unique J



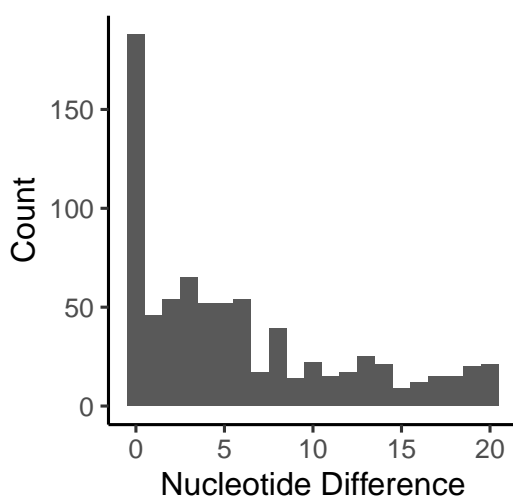
IGHV3-48*01

481 sequences assigned
107 (22.2%) exact matches, in which:
98 unique CDR3
6 unique J



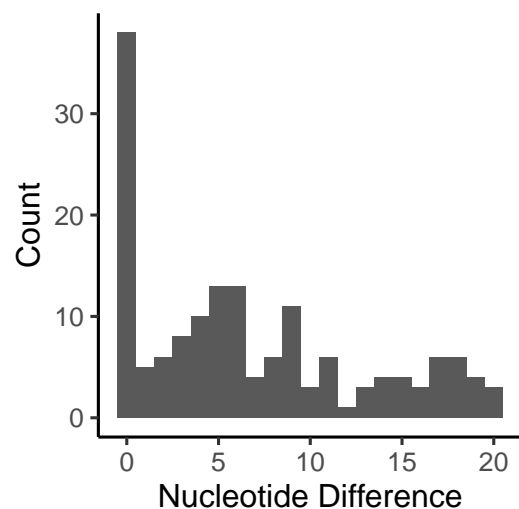
IGHV3-53*01_02

858 sequences assigned
188 (21.9%) exact matches, in which:
178 unique CDR3
6 unique J



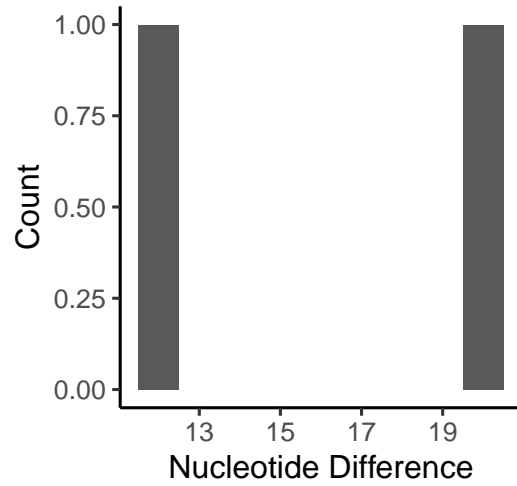
IGHV3-66*02

192 sequences assigned
38 (19.8%) exact matches, in which:
37 unique CDR3
4 unique J



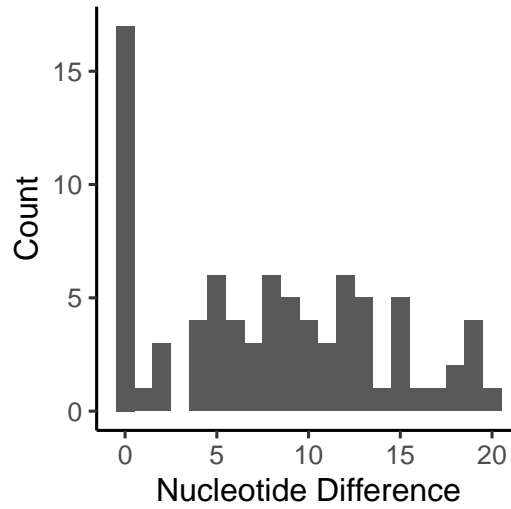
IGHV3-69-1*01

2 sequences assigned
No exact matches.



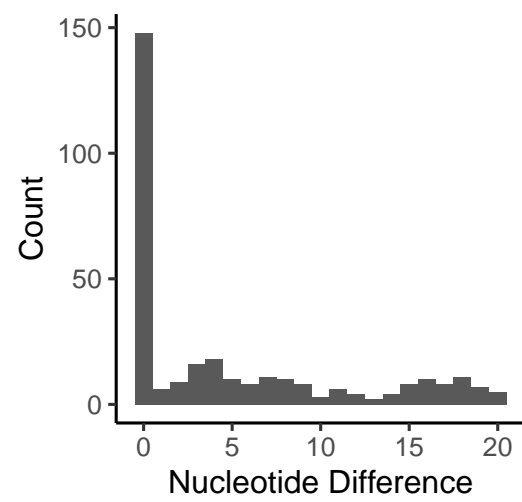
IGHV3-73*01_02

90 sequences assigned
17 (18.9%) exact matches, in which:
17 unique CDR3
3 unique J



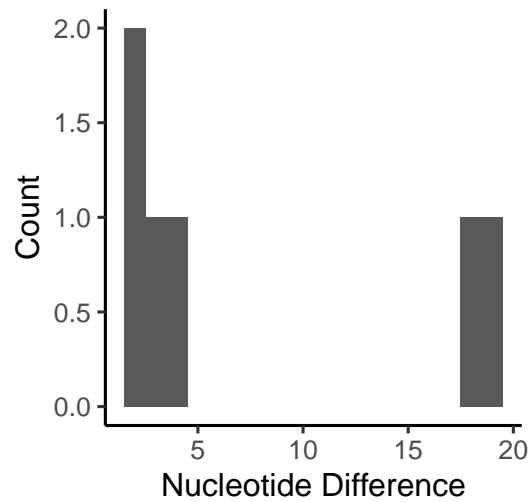
IGHV4-4*07

360 sequences assigned
148 (41.1%) exact matches, in which:
145 unique CDR3
6 unique J



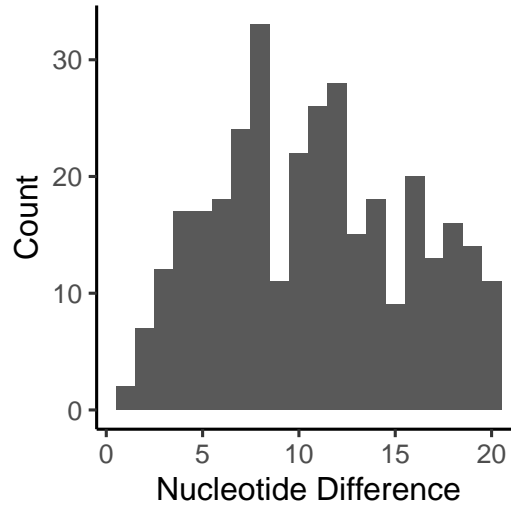
IGHV3-69-1*02

10 sequences assigned
No exact matches.



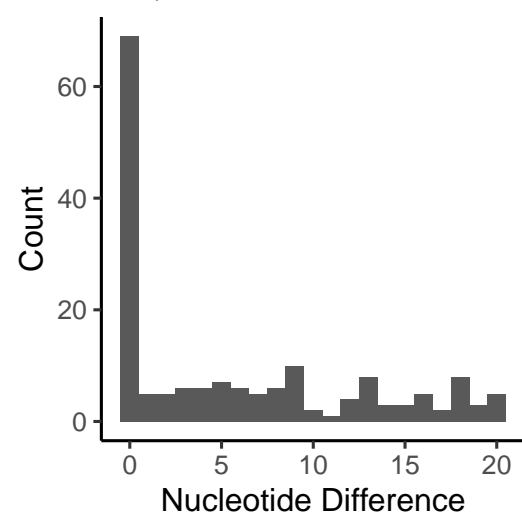
IGHV3-74*03

382 sequences assigned
No exact matches.



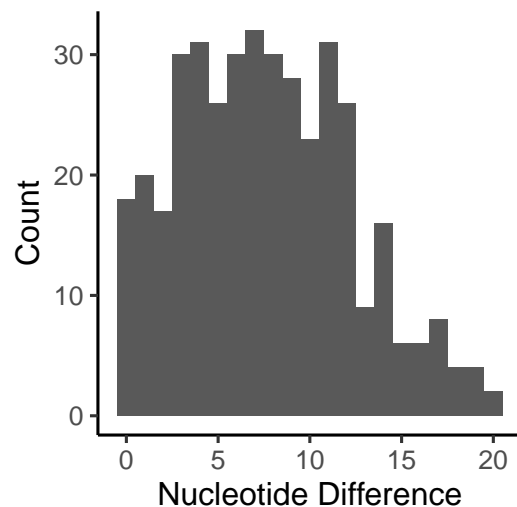
IGHV4-4*02_03

238 sequences assigned
69 (29%) exact matches, in which:
69 unique CDR3
4 unique J



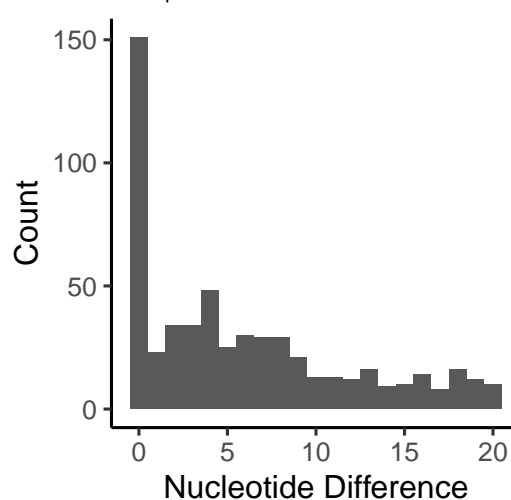
IGHV3-72*01

409 sequences assigned
18 (4.4%) exact matches, in which:
14 unique CDR3
5 unique J



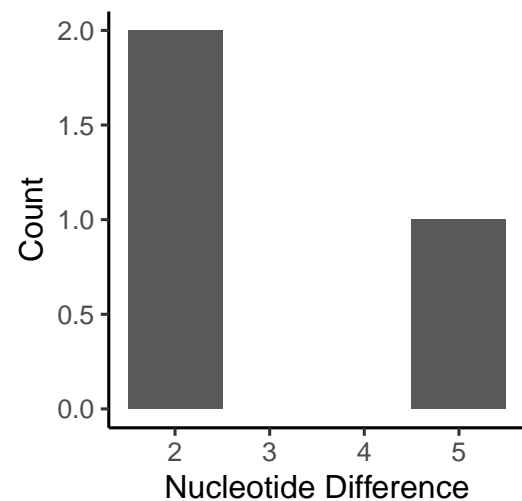
IGHV3-74*01_02

608 sequences assigned
151 (24.8%) exact matches, in which:
141 unique CDR3
7 unique J



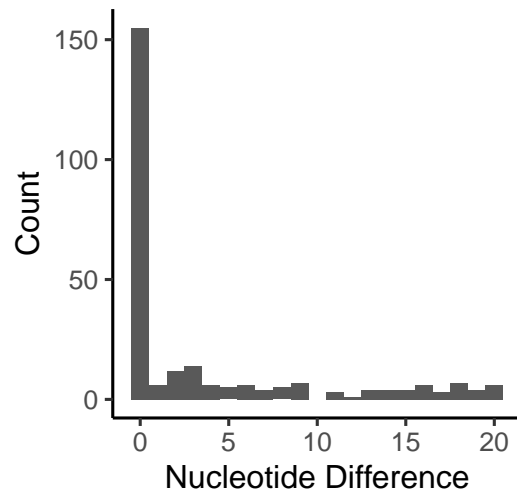
IGHV4-28*01_07

3 sequences assigned
No exact matches.



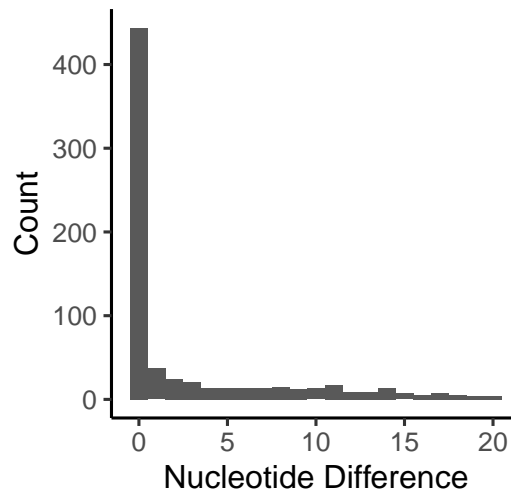
IGHV4-30-4*01

307 sequences assigned
155 (50.5%) exact matches, in which:
152 unique CDR3
7 unique J



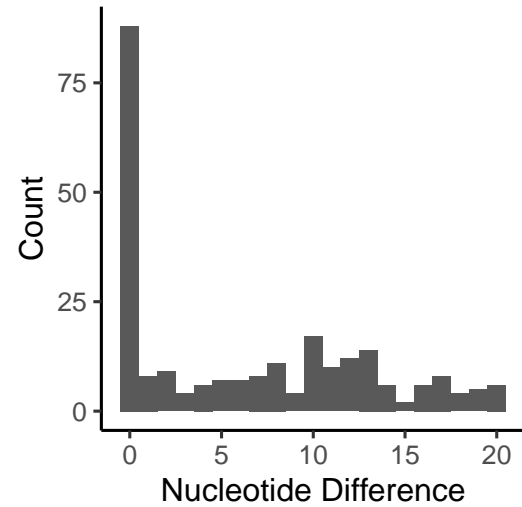
IGHV4-34*01_02

755 sequences assigned
444 (58.8%) exact matches, in which:
443 unique CDR3
7 unique J



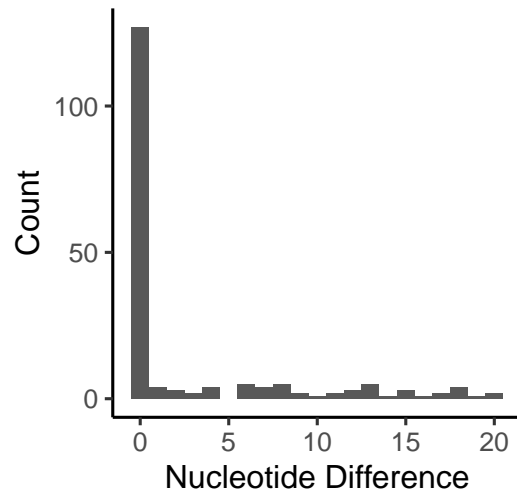
IGHV4-61*01

275 sequences assigned
88 (32%) exact matches, in which:
85 unique CDR3
5 unique J



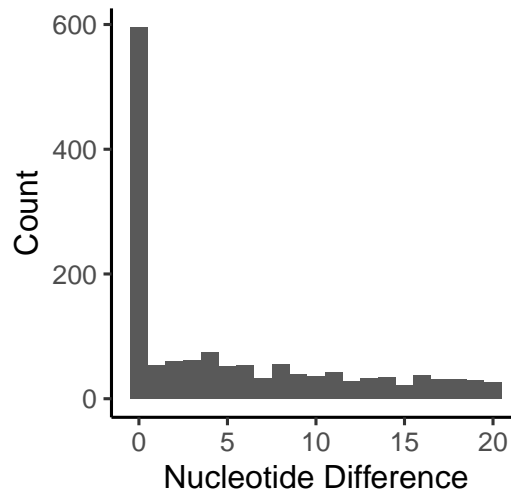
IGHV4-30-2*01

197 sequences assigned
127 (64.5%) exact matches, in which:
125 unique CDR3
6 unique J



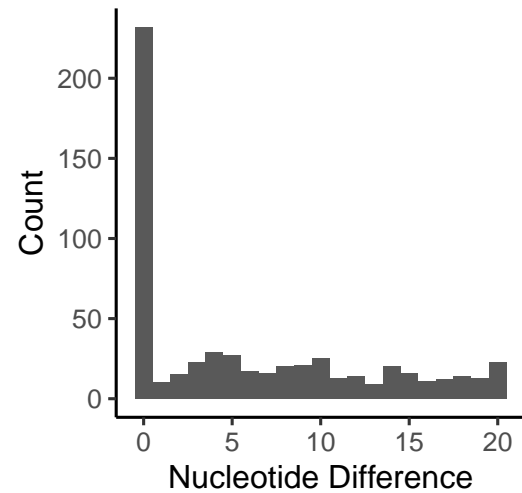
IGHV4-39*02_C258G

1618 sequences assigned
596 (36.8%) exact matches, in which:
585 unique CDR3
7 unique J



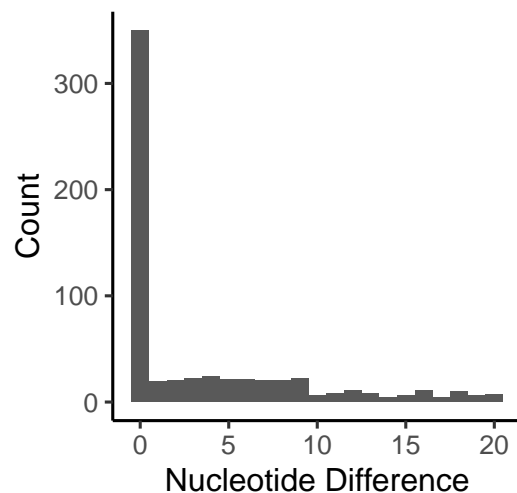
IGHV4-61*02

669 sequences assigned
232 (34.7%) exact matches, in which:
226 unique CDR3
6 unique J



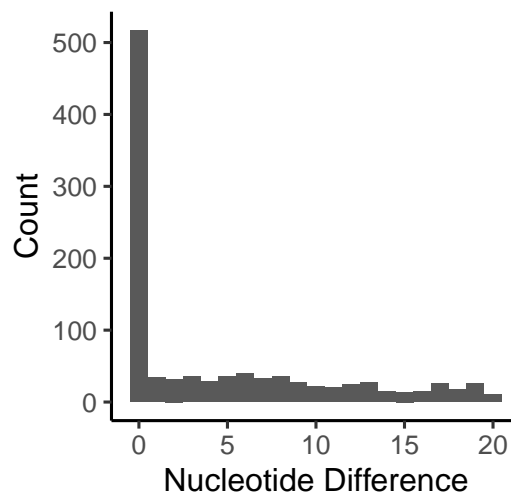
IGHV4-31*02

677 sequences assigned
350 (51.7%) exact matches, in which:
347 unique CDR3
7 unique J



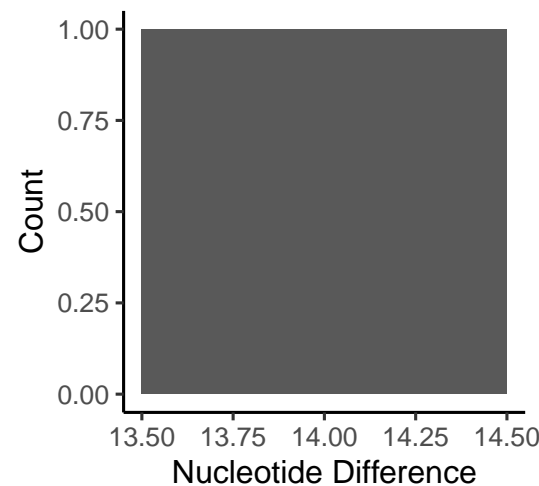
IGHV4-59*02_G88A

1158 sequences assigned
517 (44.6%) exact matches, in which:
506 unique CDR3
7 unique J



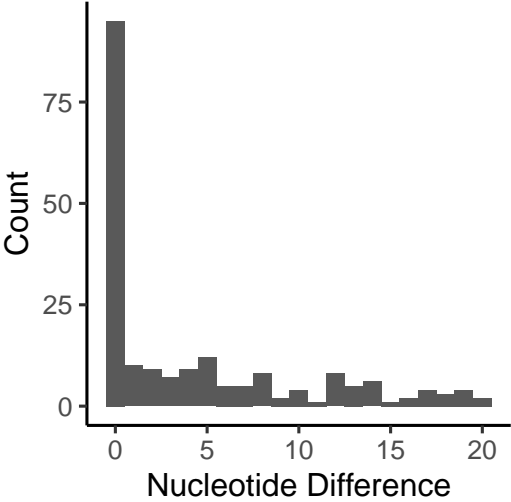
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



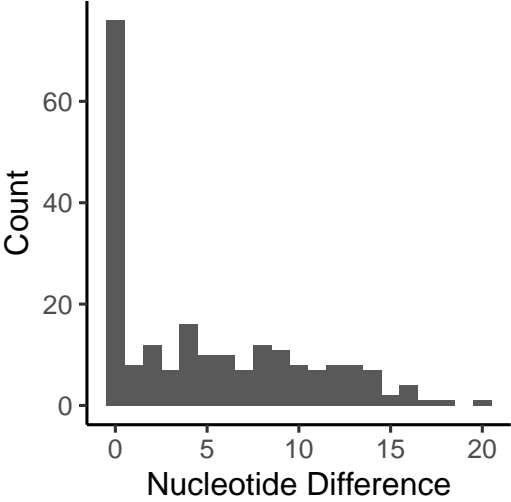
IGHV5-51*07_A128G

226 sequences assigned
95 (42%) exact matches, in which:
95 unique CDR3
7 unique J



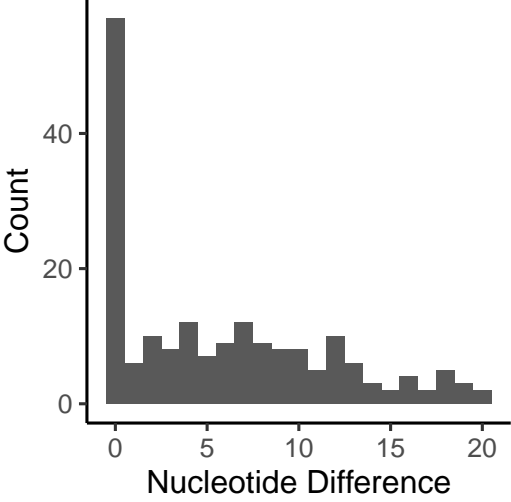
IGHV6-1*01_02

229 sequences assigned
76 (33.2%) exact matches, in which:
76 unique CDR3
6 unique J

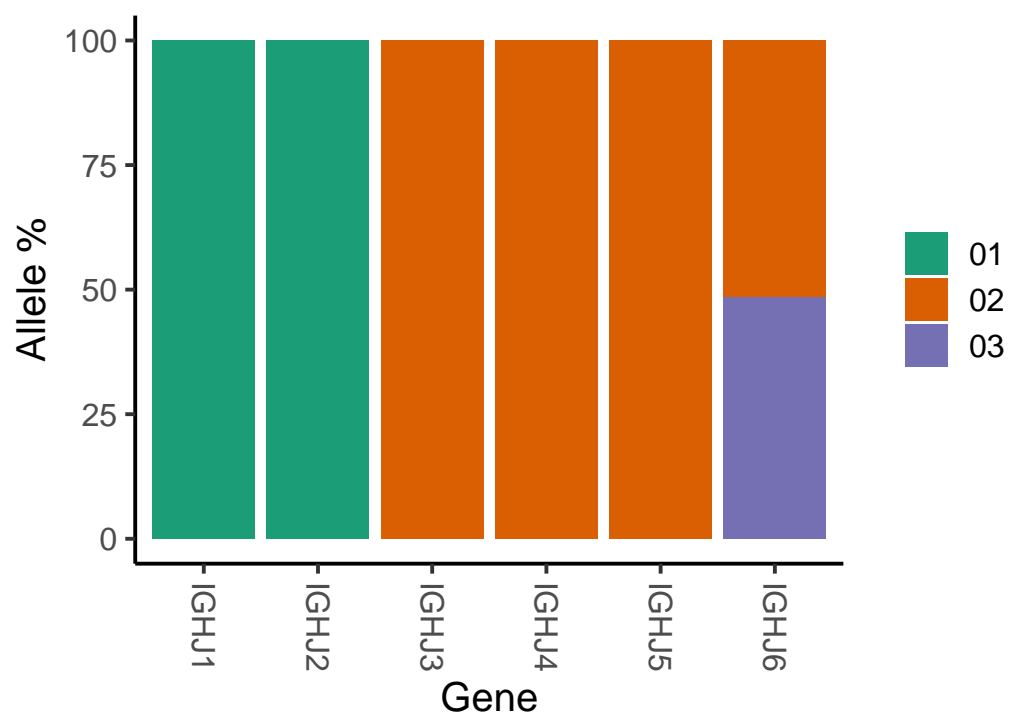


IGHV7-4-1*02

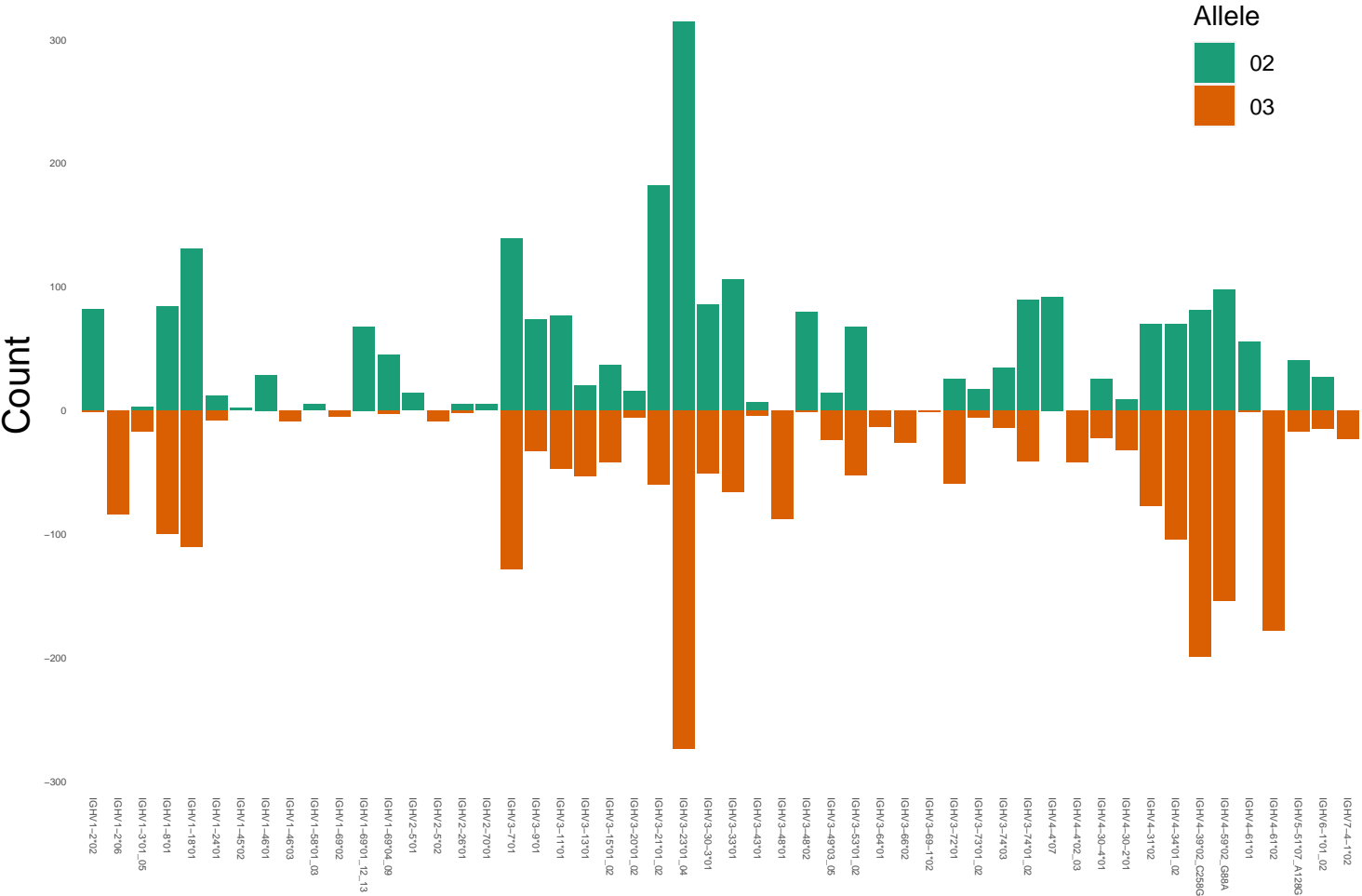
196 sequences assigned
57 (29.1%) exact matches, in which:
57 unique CDR3
6 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.