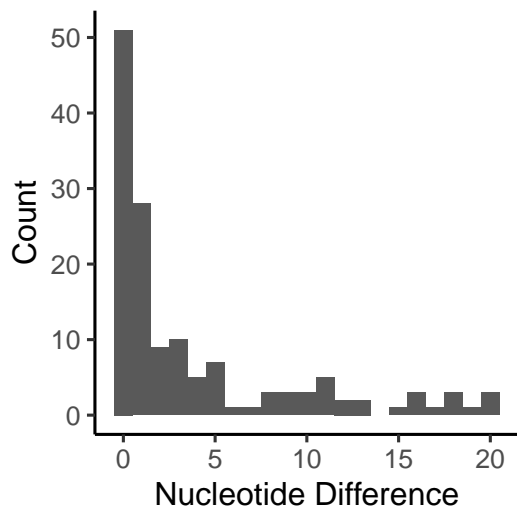


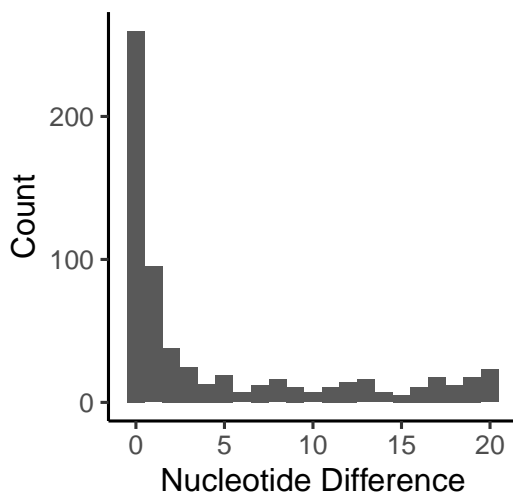
IGHV1-2*04

219 sequences assigned
51 (23.3%) exact matches, in which:
50 unique CDR3
6 unique J



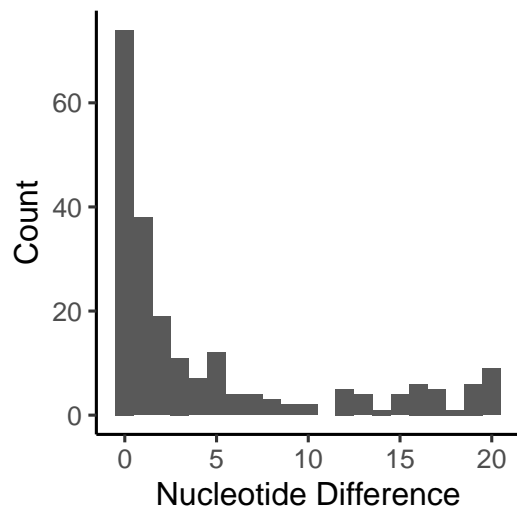
IGHV1-18*01

916 sequences assigned
260 (28.4%) exact matches, in which:
254 unique CDR3
6 unique J



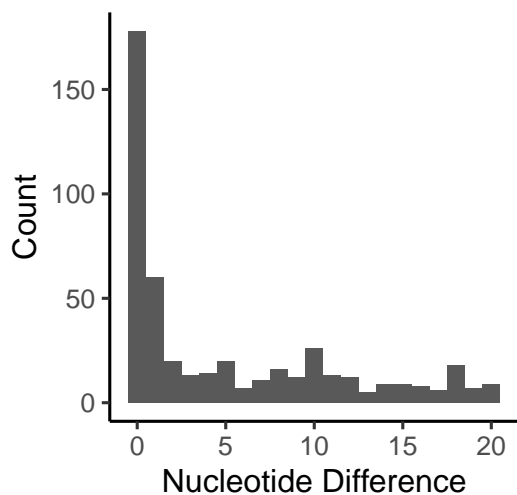
IGHV1-46*01

323 sequences assigned
74 (22.9%) exact matches, in which:
71 unique CDR3
5 unique J



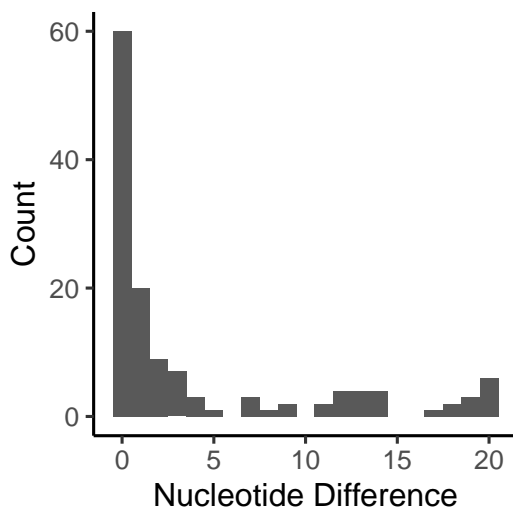
IGHV1-3*01

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



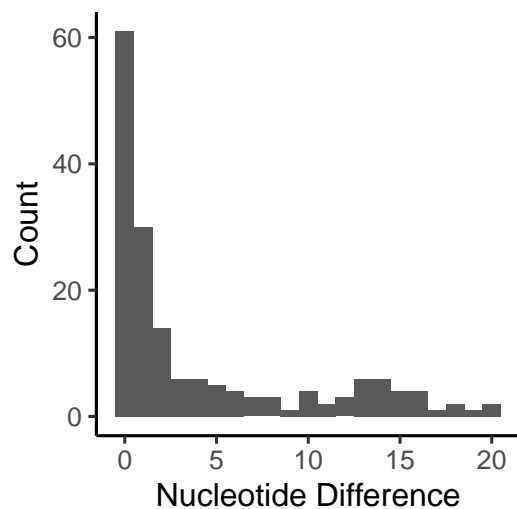
IGHV1-24*01

177 sequences assigned
60 (33.9%) exact matches, in which:
59 unique CDR3
7 unique J



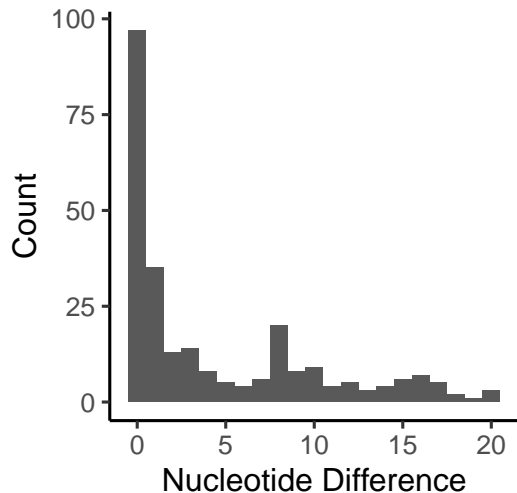
IGHV1-46*03

252 sequences assigned
61 (24.2%) exact matches, in which:
59 unique CDR3
5 unique J



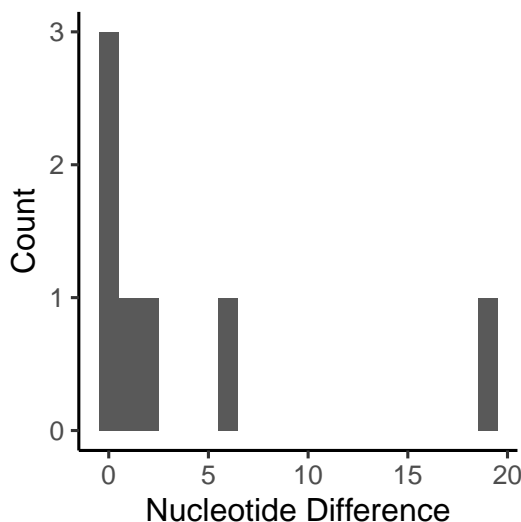
IGHV1-8*01

305 sequences assigned
97 (31.8%) exact matches, in which:
97 unique CDR3
6 unique J



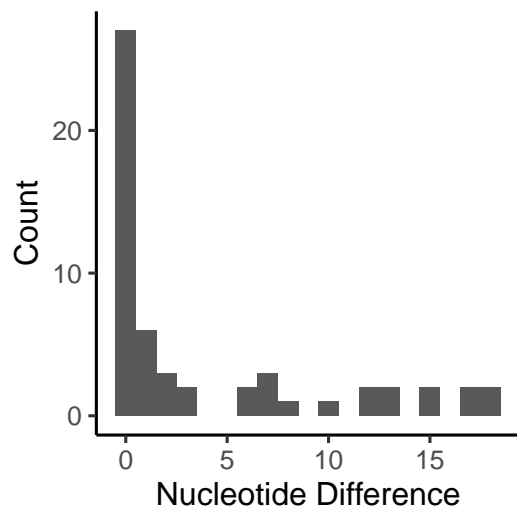
IGHV1-45*02

51 sequences assigned
3 (5.9%) exact matches, in which:
3 unique CDR3
2 unique J



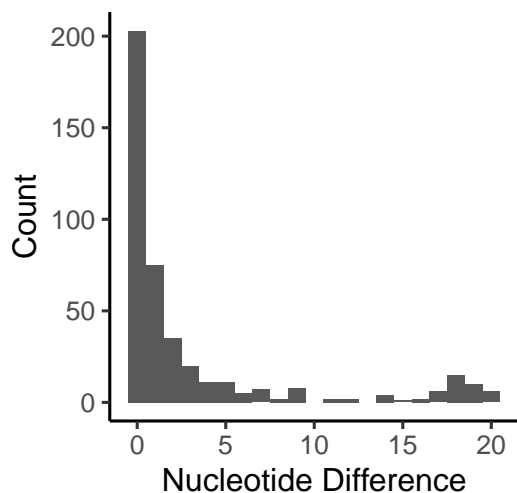
IGHV1-58*02

74 sequences assigned
27 (36.5%) exact matches, in which:
27 unique CDR3
7 unique J



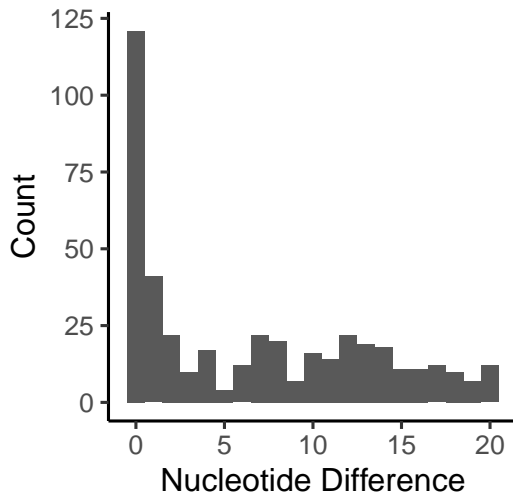
IGHV1–69*04

646 sequences assigned
203 (31.4%) exact matches, in which:
199 unique CDR3
7 unique J



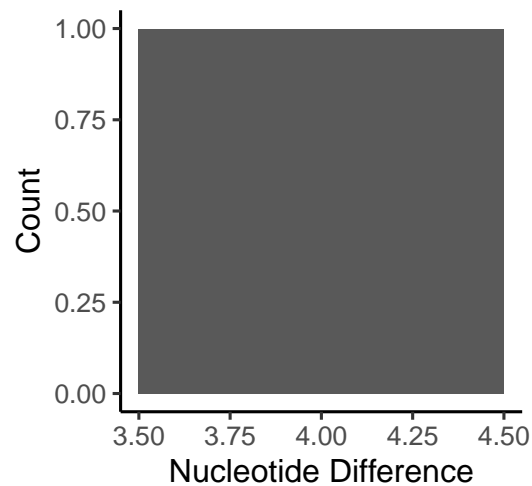
IGHV2–5*02

567 sequences assigned
121 (21.3%) exact matches, in which:
119 unique CDR3
6 unique J



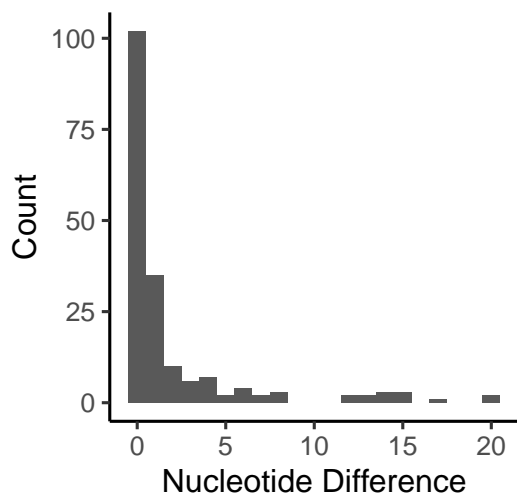
IGHV2–70D*04

1 sequences assigned
No exact matches.



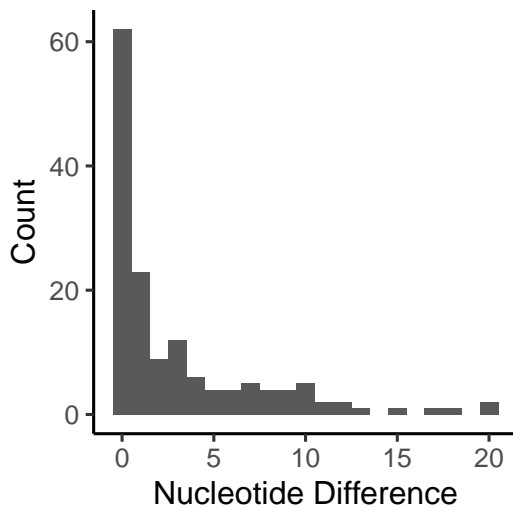
IGHV1–69*08_C191T

302 sequences assigned
102 (33.8%) exact matches, in which:
101 unique CDR3
6 unique J



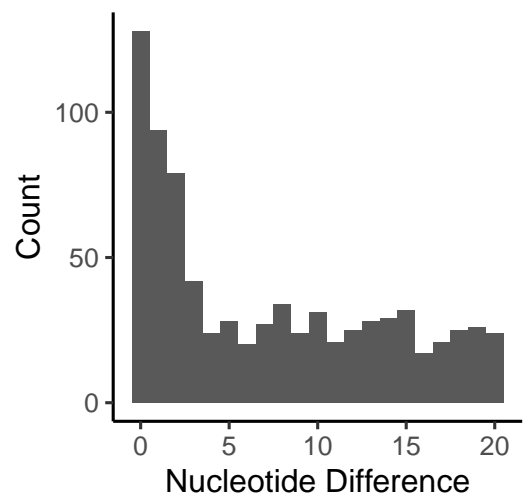
IGHV2–26*01

200 sequences assigned
62 (31%) exact matches, in which:
62 unique CDR3
6 unique J



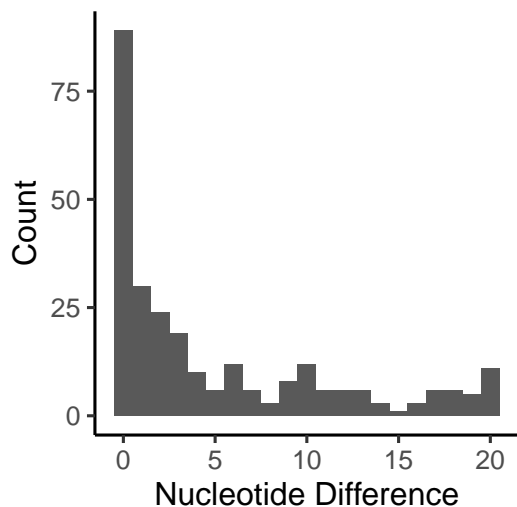
IGHV3–7*01

1019 sequences assigned
128 (12.6%) exact matches, in which:
126 unique CDR3
7 unique J



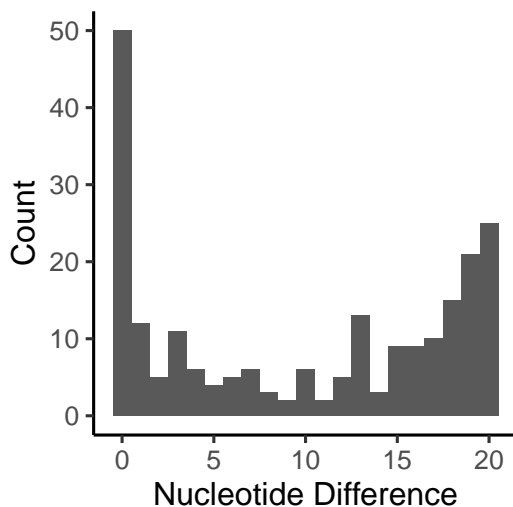
IGHV2–5*01

393 sequences assigned
89 (22.6%) exact matches, in which:
84 unique CDR3
6 unique J



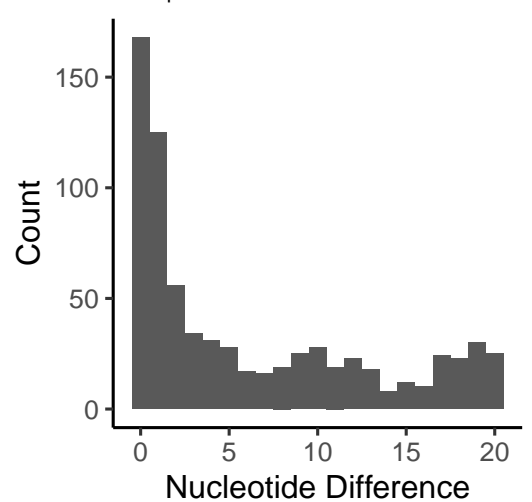
IGHV2–70*15

373 sequences assigned
50 (13.4%) exact matches, in which:
50 unique CDR3
5 unique J



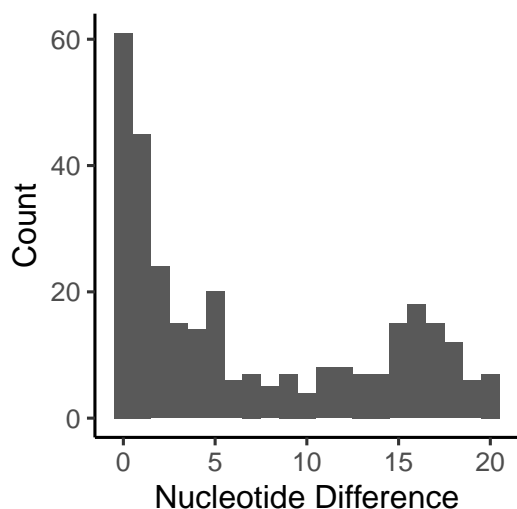
IGHV3–9*01

1167 sequences assigned
168 (14.4%) exact matches, in which:
165 unique CDR3
6 unique J



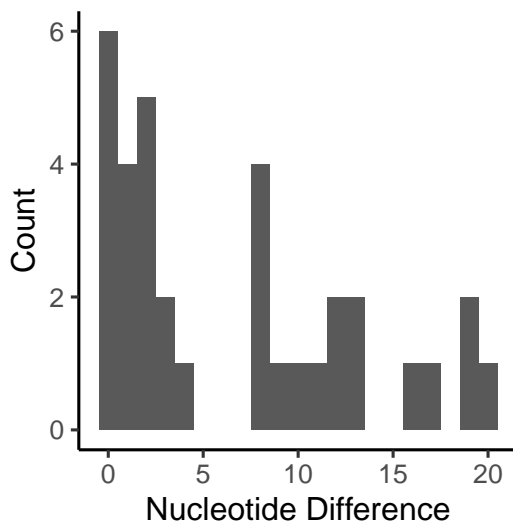
IGHV3-11*01

854 sequences assigned
61 (7.1%) exact matches, in which:
58 unique CDR3
6 unique J



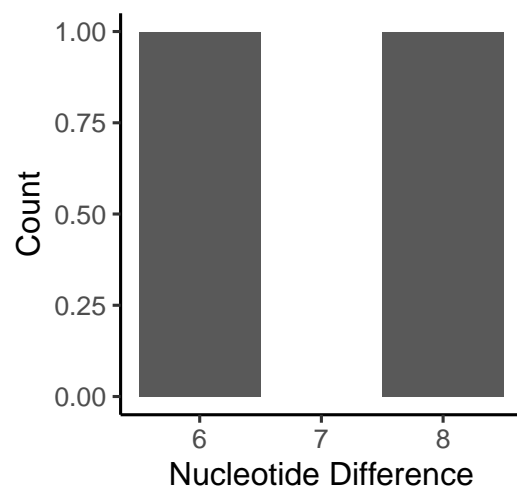
IGHV3-13*05

36 sequences assigned
6 (16.7%) exact matches, in which:
6 unique CDR3
3 unique J



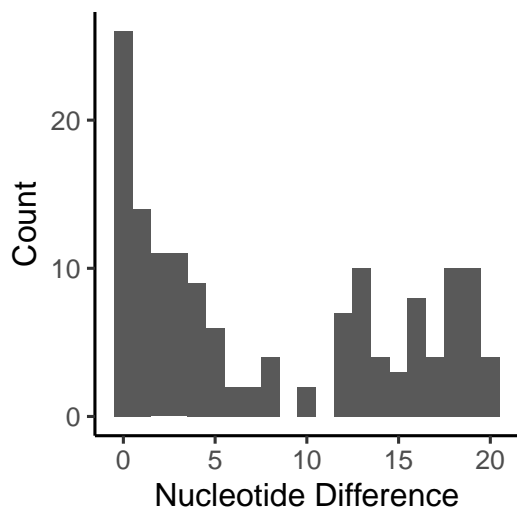
IGHV3-20*04

20 sequences assigned
No exact matches.



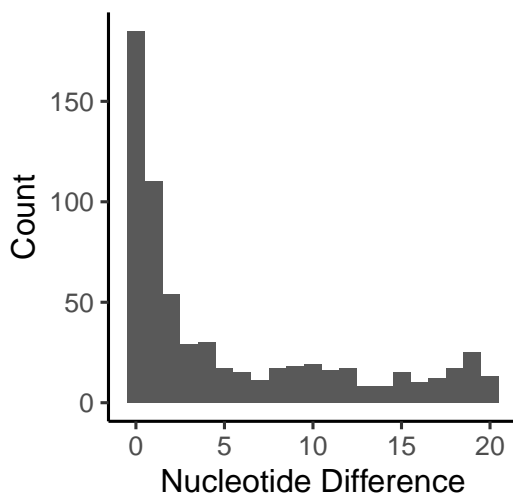
IGHV3-11*06

222 sequences assigned
26 (11.7%) exact matches, in which:
26 unique CDR3
4 unique J



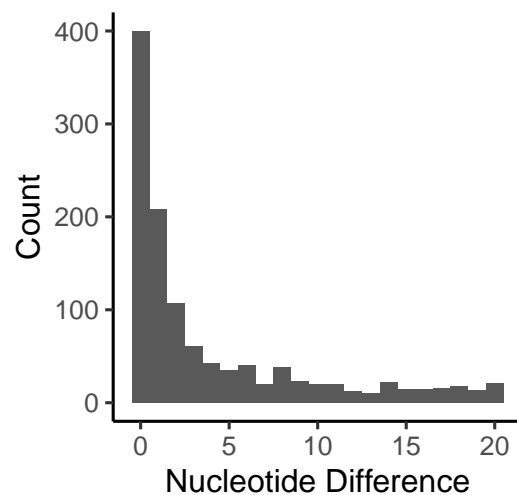
IGHV3-15*01

914 sequences assigned
185 (20.2%) exact matches, in which:
179 unique CDR3
7 unique J



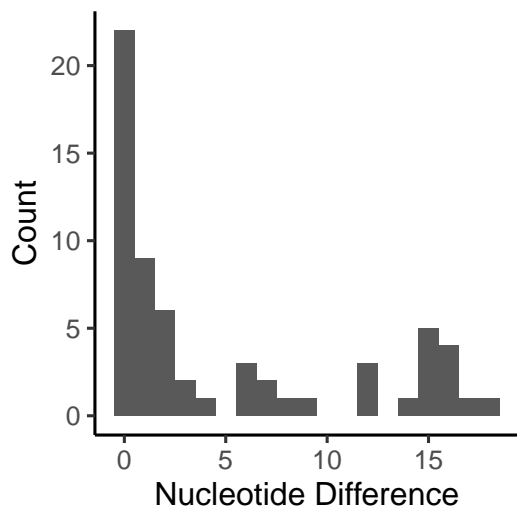
IGHV3-21*01

1435 sequences assigned
400 (27.9%) exact matches, in which:
393 unique CDR3
7 unique J



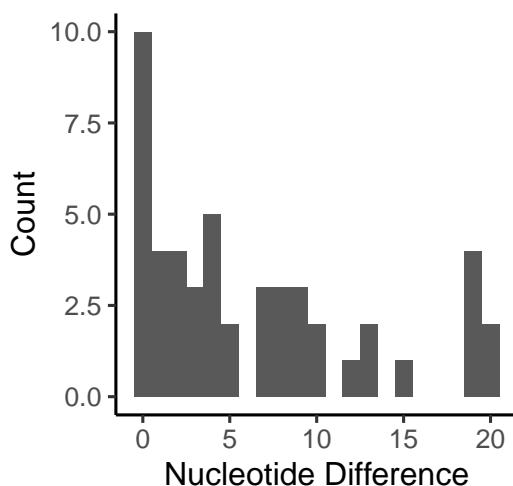
IGHV3-13*01

95 sequences assigned
22 (23.2%) exact matches, in which:
22 unique CDR3
4 unique J



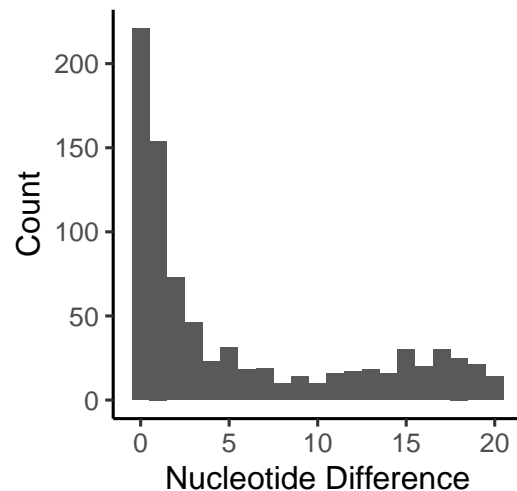
IGHV3-20*01

62 sequences assigned
10 (16.1%) exact matches, in which:
10 unique CDR3
5 unique J



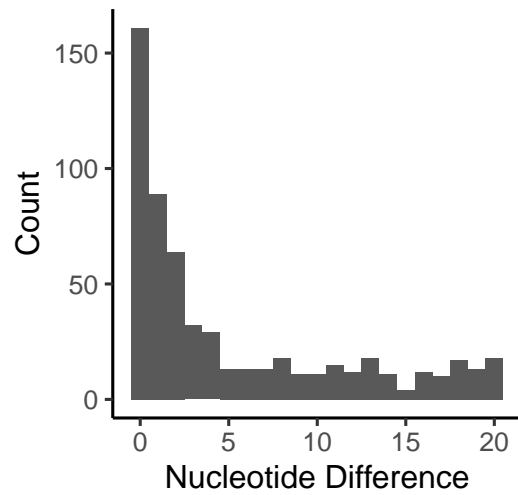
IGHV3-23*04

1198 sequences assigned
221 (18.4%) exact matches, in which:
209 unique CDR3
6 unique J



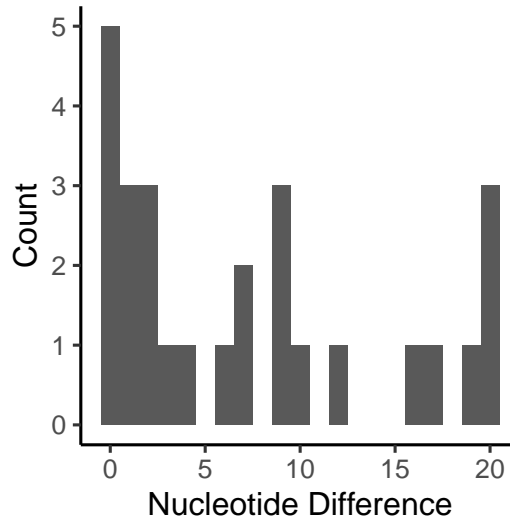
IGHV3-30*01

833 sequences assigned
161 (19.3%) exact matches, in which:
160 unique CDR3
6 unique J



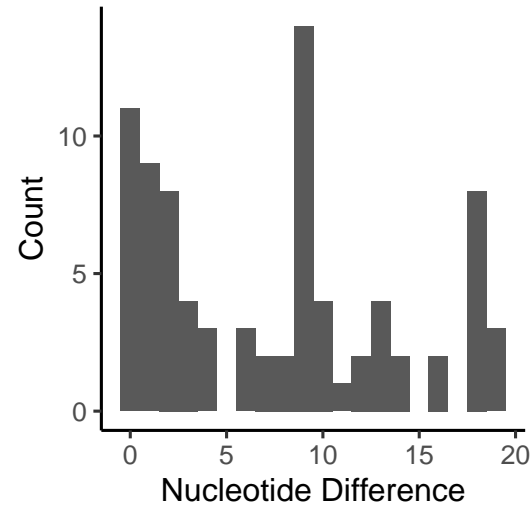
IGHV3-43*01

51 sequences assigned
5 (9.8%) exact matches, in which:
5 unique CDR3
2 unique J



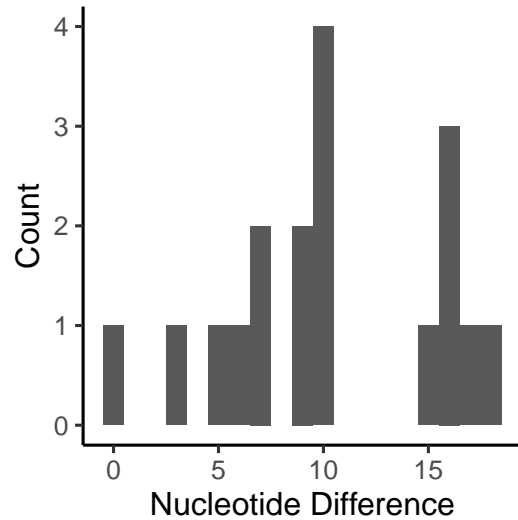
IGHV3-49*03

148 sequences assigned
11 (7.4%) exact matches, in which:
10 unique CDR3
4 unique J



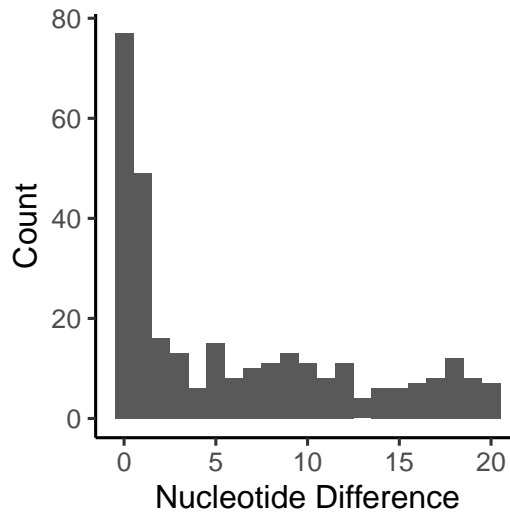
IGHV3-30-3*03

56 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



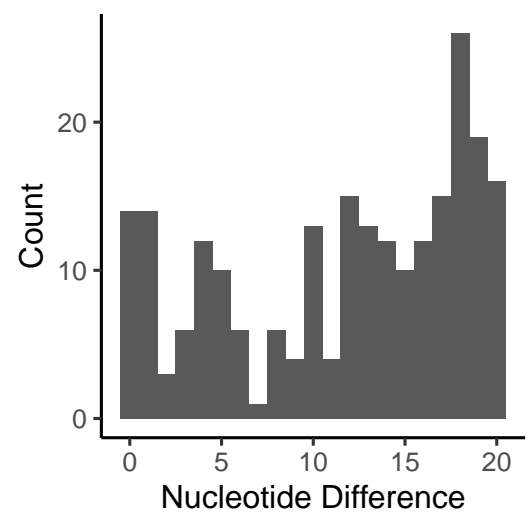
IGHV3-48*01

409 sequences assigned
77 (18.8%) exact matches, in which:
76 unique CDR3
6 unique J



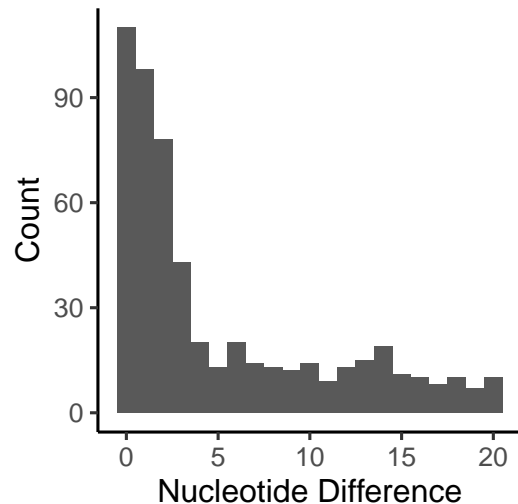
IGHV3-49*04

359 sequences assigned
14 (3.9%) exact matches, in which:
14 unique CDR3
4 unique J



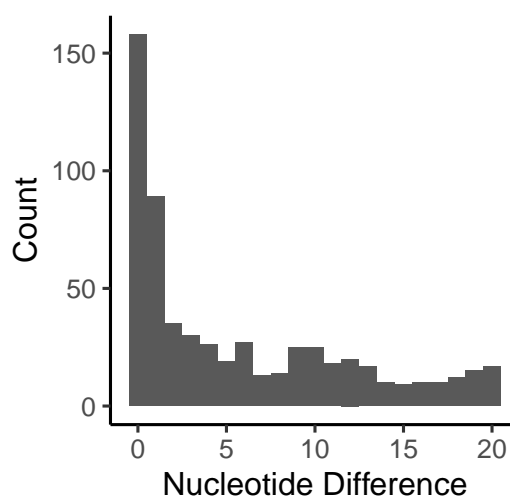
IGHV3-33*01

727 sequences assigned
110 (15.1%) exact matches, in which:
106 unique CDR3
6 unique J



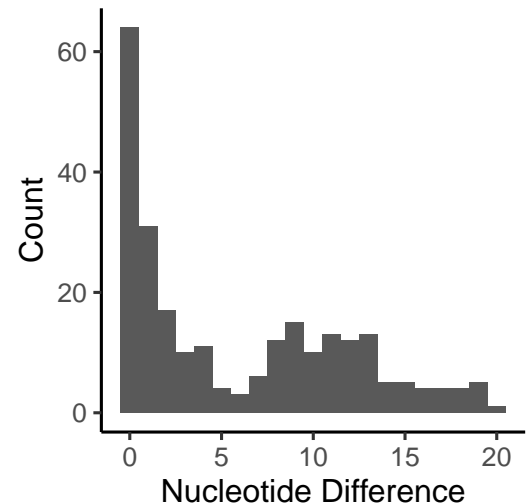
IGHV3-48*03

929 sequences assigned
158 (17%) exact matches, in which:
156 unique CDR3
7 unique J



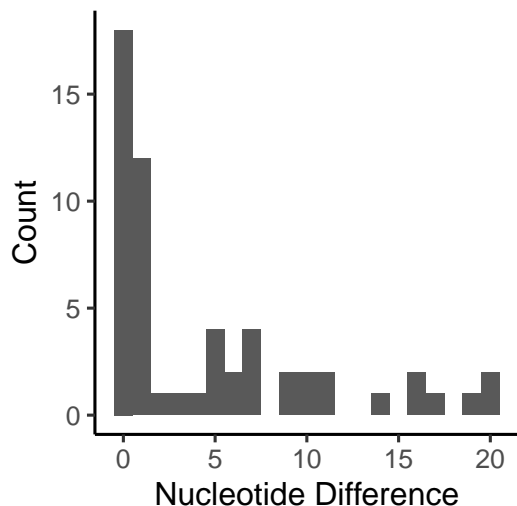
IGHV3-53*01

323 sequences assigned
64 (19.8%) exact matches, in which:
63 unique CDR3
6 unique J



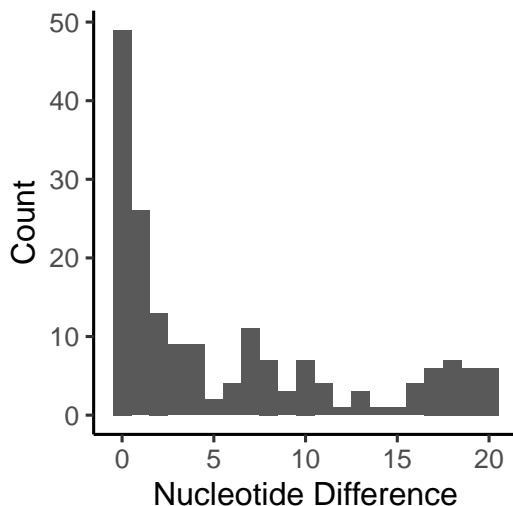
IGHV3-53*02

65 sequences assigned
18 (27.7%) exact matches, in which:
18 unique CDR3
5 unique J



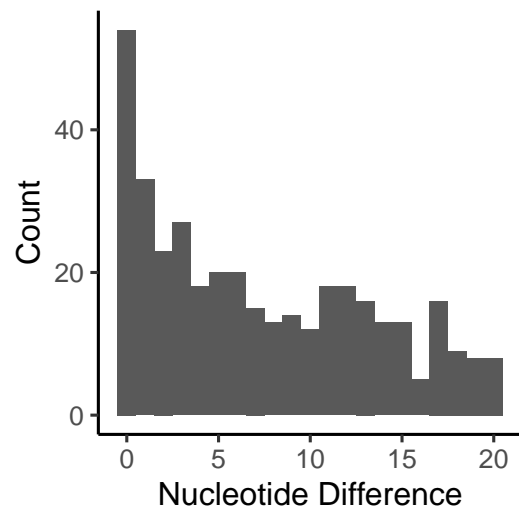
IGHV3-66*02

253 sequences assigned
49 (19.4%) exact matches, in which:
48 unique CDR3
5 unique J



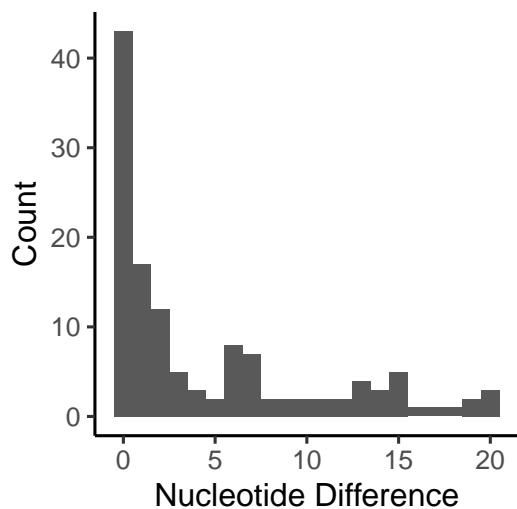
IGHV3-74*01

578 sequences assigned
54 (9.3%) exact matches, in which:
52 unique CDR3
5 unique J



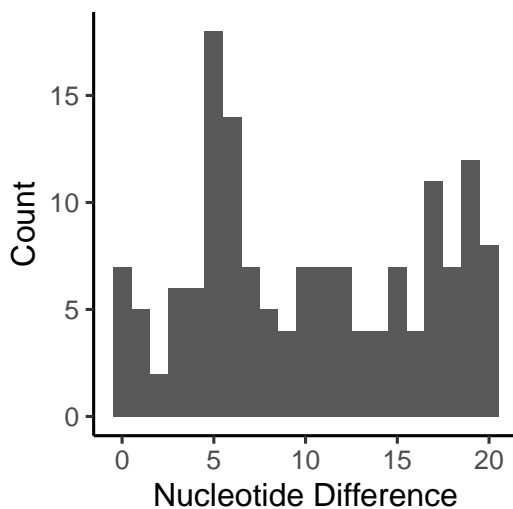
IGHV3-64*01

155 sequences assigned
43 (27.7%) exact matches, in which:
43 unique CDR3
7 unique J



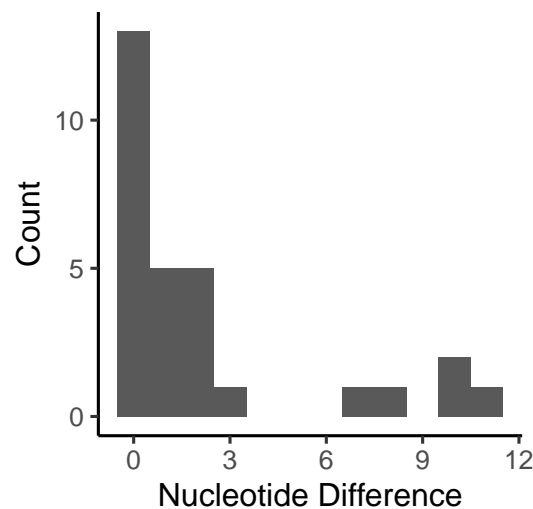
IGHV3-72*01

217 sequences assigned
7 (3.2%) exact matches, in which:
7 unique CDR3
3 unique J



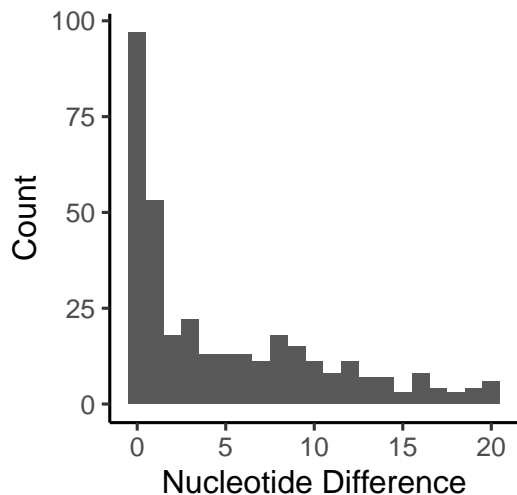
IGHV3-43D*04

48 sequences assigned
13 (27.1%) exact matches, in which:
8 unique CDR3
2 unique J



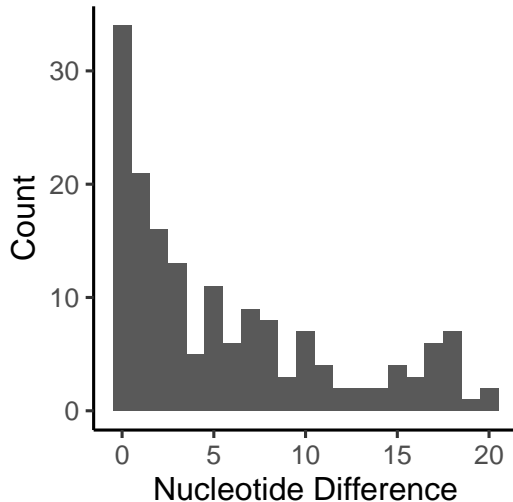
IGHV3-66*01

489 sequences assigned
97 (19.8%) exact matches, in which:
92 unique CDR3
6 unique J



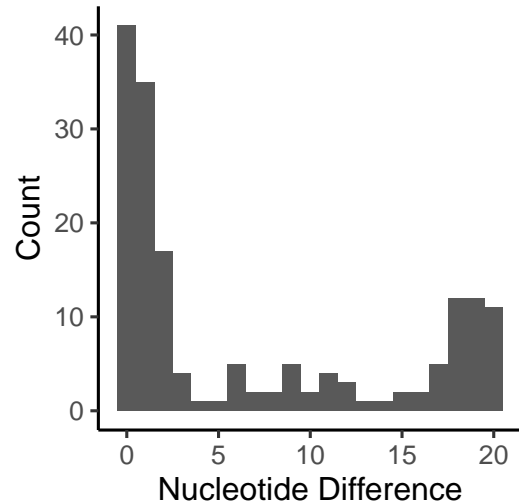
IGHV3-73*01

204 sequences assigned
34 (16.7%) exact matches, in which:
33 unique CDR3
6 unique J



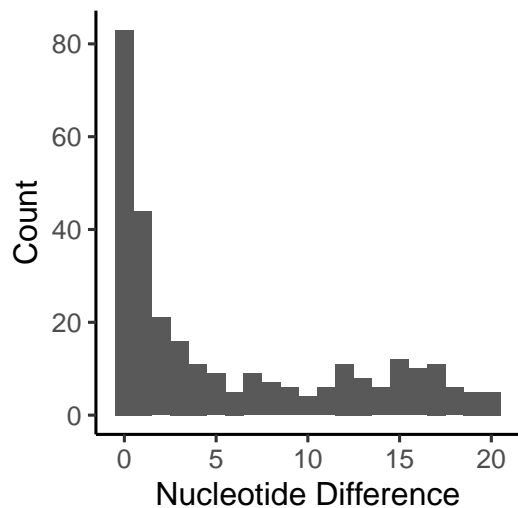
IGHV3-64D*06

265 sequences assigned
41 (15.5%) exact matches, in which:
37 unique CDR3
5 unique J



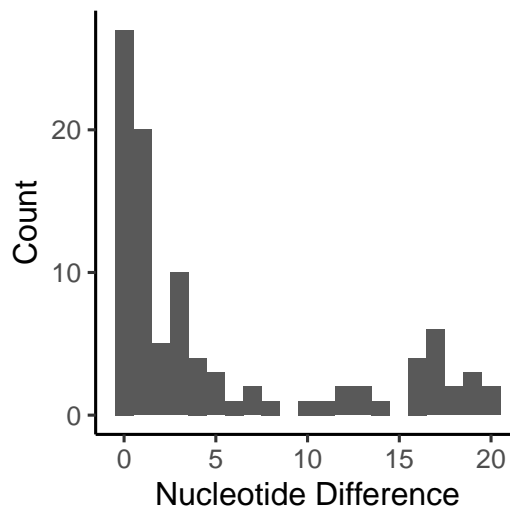
IGHV4-4*02

424 sequences assigned
83 (19.6%) exact matches, in which:
82 unique CDR3
6 unique J



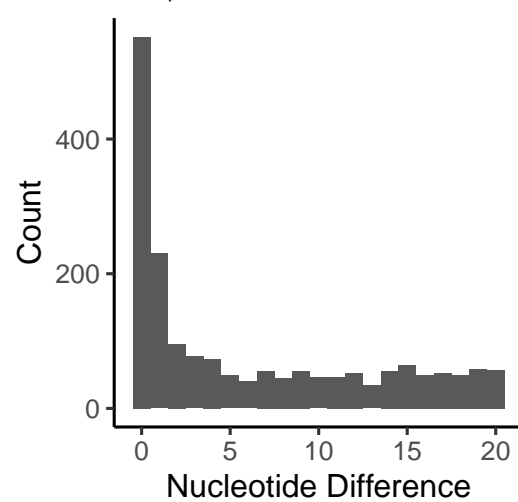
IGHV4-30-2*01

176 sequences assigned
27 (15.3%) exact matches, in which:
27 unique CDR3
5 unique J



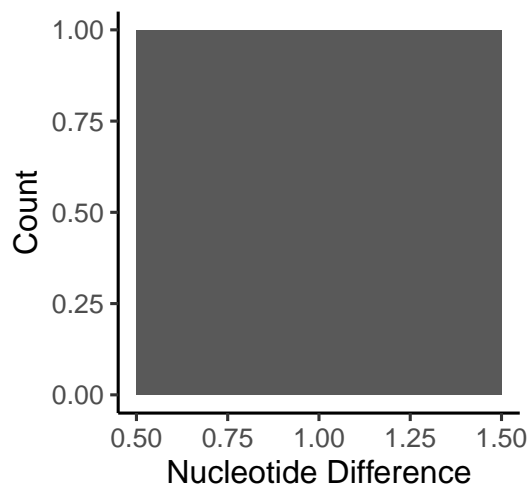
IGHV4-34*01

2917 sequences assigned
552 (18.9%) exact matches, in which:
545 unique CDR3
7 unique J



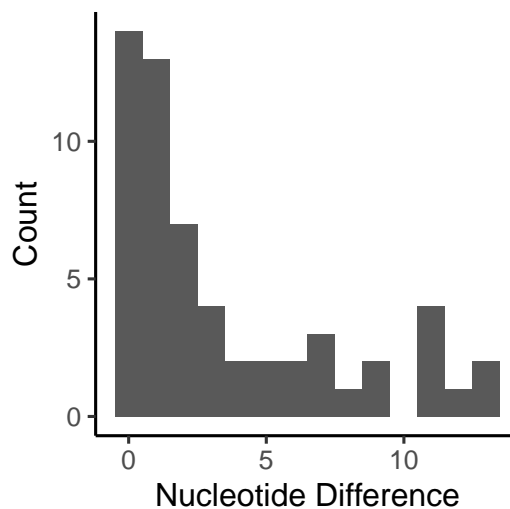
IGHV4-28*04

1 sequences assigned
No exact matches.



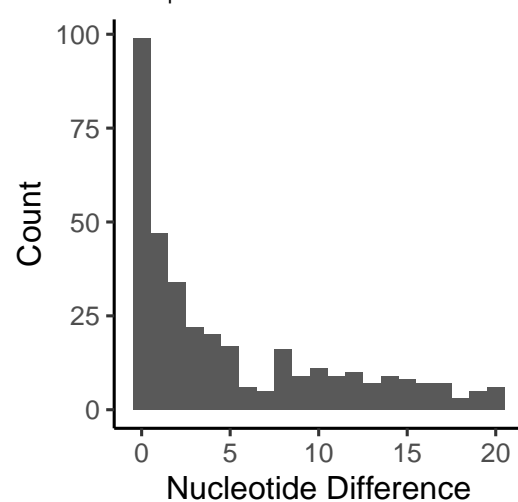
IGHV4-31*01

63 sequences assigned
14 (22.2%) exact matches, in which:
12 unique CDR3
5 unique J



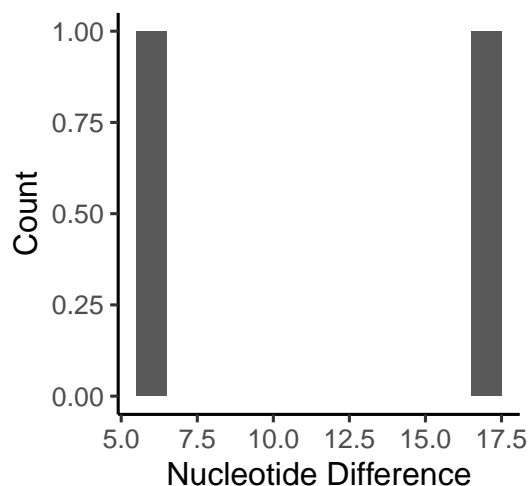
IGHV4-38-2*02_A70G

561 sequences assigned
99 (17.6%) exact matches, in which:
97 unique CDR3
5 unique J



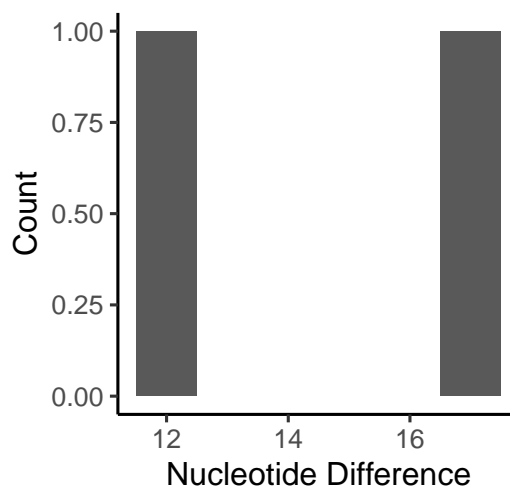
IGHV4-28*07

3 sequences assigned
No exact matches.



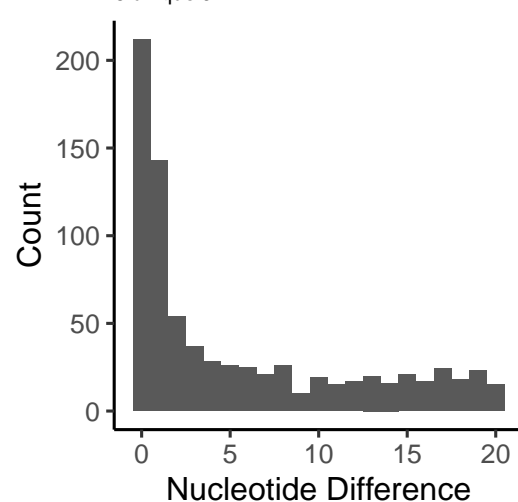
IGHV4-31*03

19 sequences assigned
No exact matches.



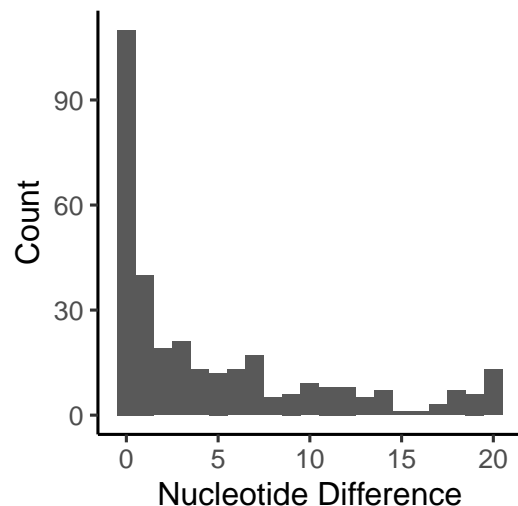
IGHV4-39*01

1288 sequences assigned
212 (16.5%) exact matches, in which:
212 unique CDR3
6 unique J



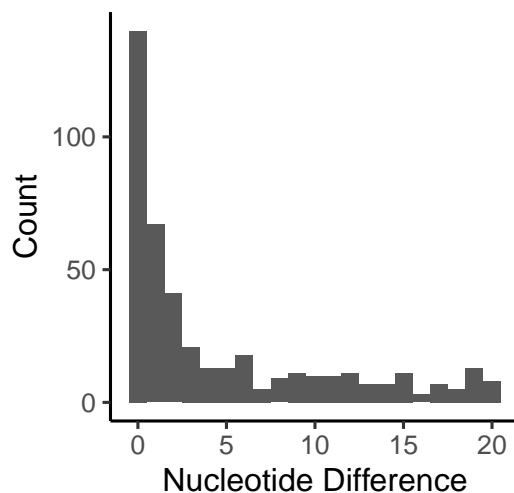
IGHV4-59*01

512 sequences assigned
110 (21.5%) exact matches, in which:
110 unique CDR3
5 unique J



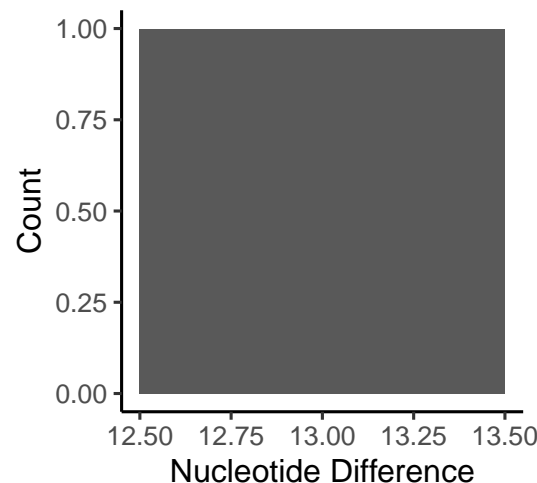
IGHV4-61*02_A291G

663 sequences assigned
140 (21.1%) exact matches, in which:
137 unique CDR3
5 unique J



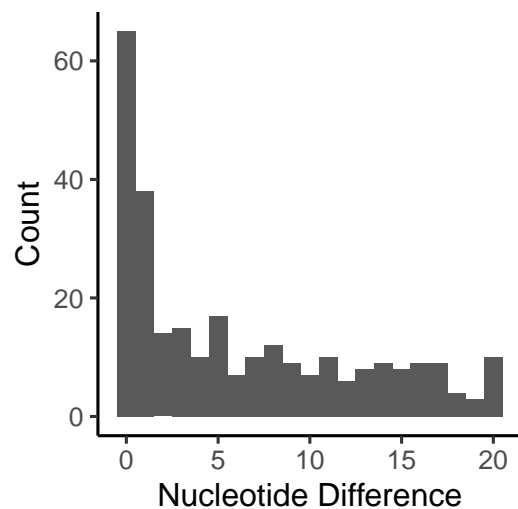
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



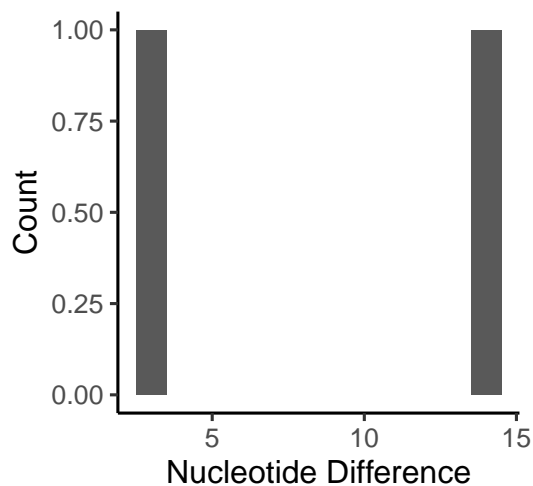
IGHV4-59*08

385 sequences assigned
65 (16.9%) exact matches, in which:
65 unique CDR3
6 unique J



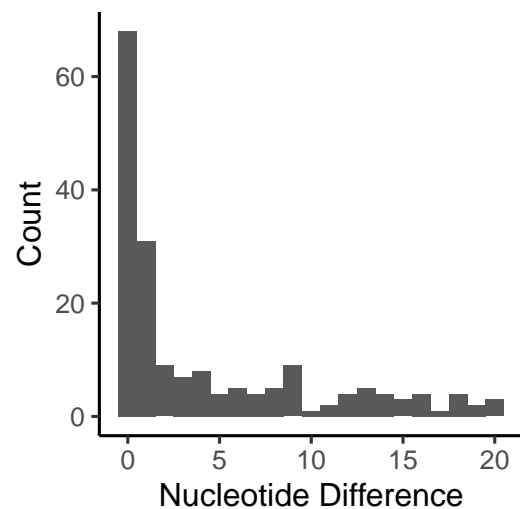
IGHV1/OR15-1*04

3 sequences assigned
No exact matches.



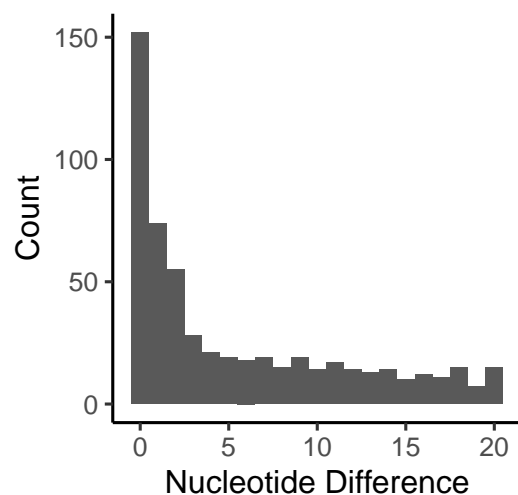
IGHV5-10-1*03

304 sequences assigned
68 (22.4%) exact matches, in which:
68 unique CDR3
5 unique J



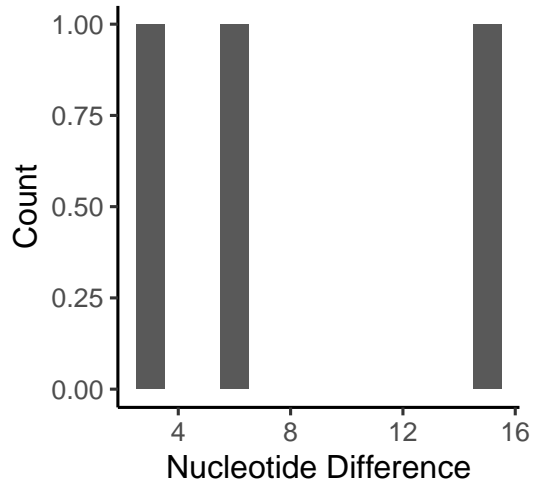
IGHV4-61*02

823 sequences assigned
152 (18.5%) exact matches, in which:
151 unique CDR3
6 unique J



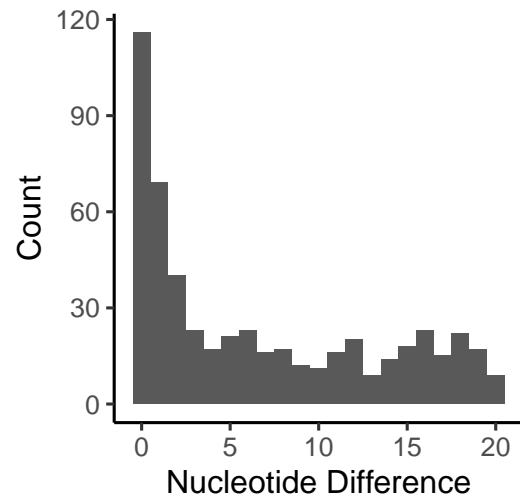
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



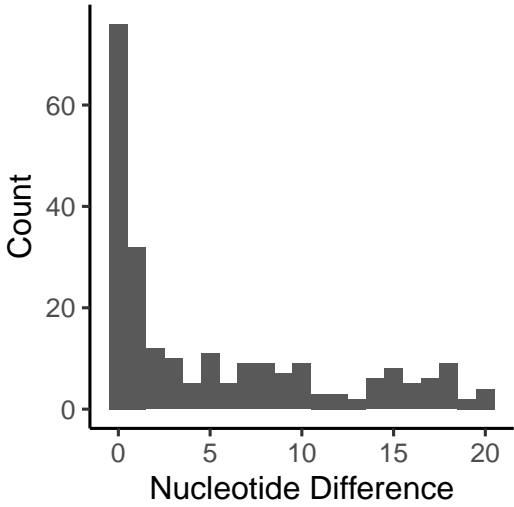
IGHV5-51*01

774 sequences assigned
116 (15%) exact matches, in which:
116 unique CDR3
7 unique J



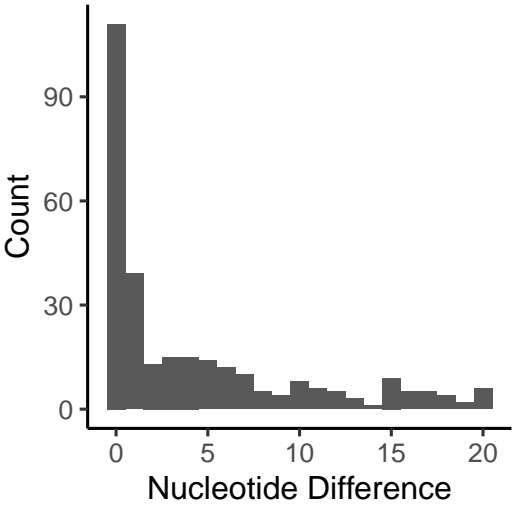
IGHV5–51*03

350 sequences assigned
76 (21.7%) exact matches, in which:
73 unique CDR3
5 unique J



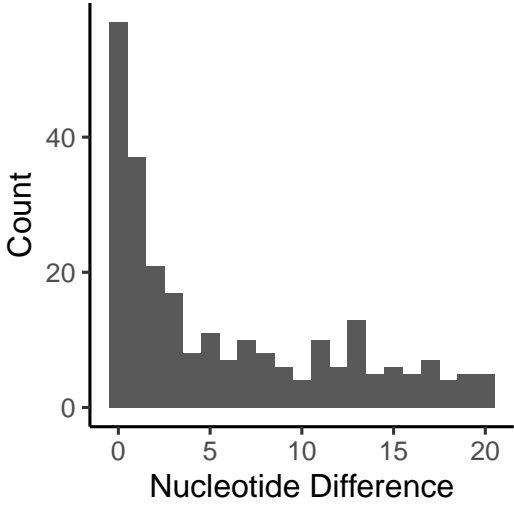
IGHV7–4–1*02

379 sequences assigned
111 (29.3%) exact matches, in which:
108 unique CDR3
6 unique J



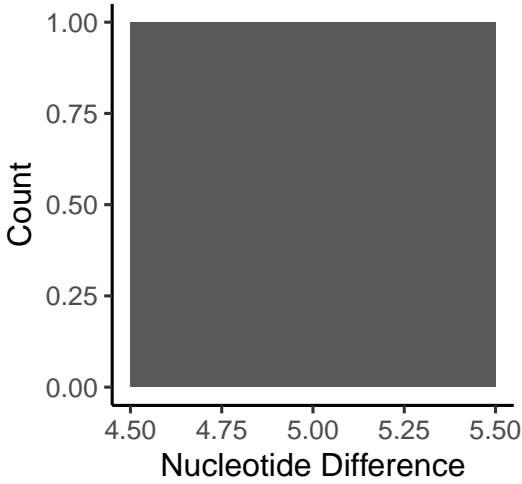
IGHV6–1*01

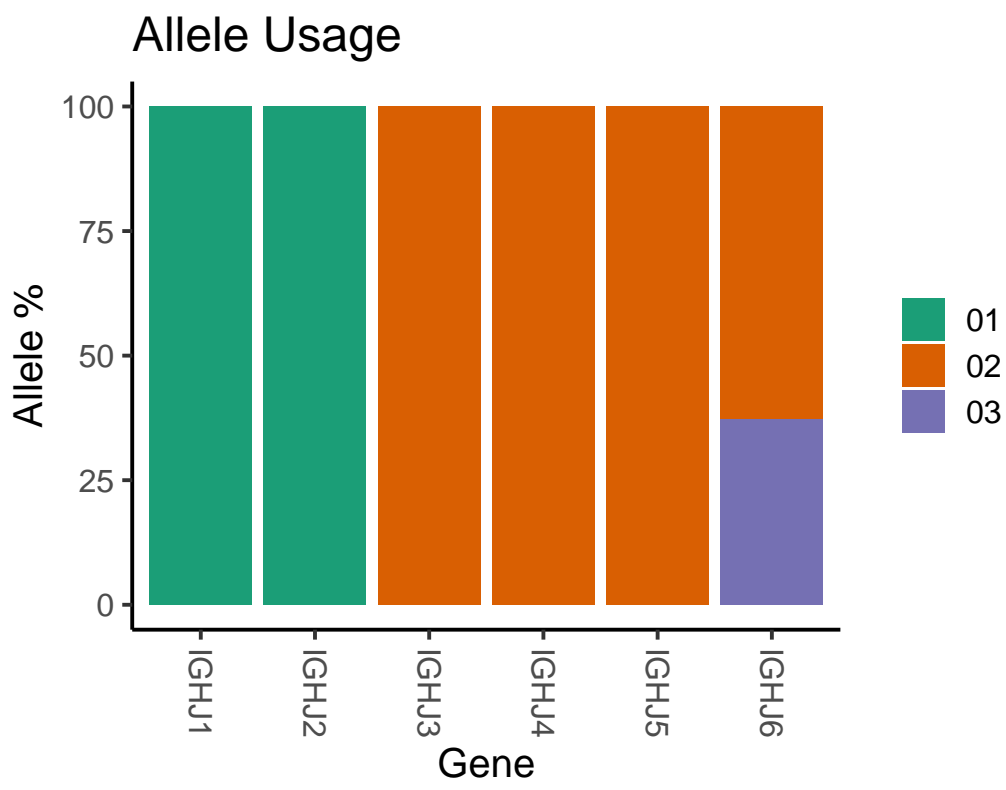
355 sequences assigned
57 (16.1%) exact matches, in which:
50 unique CDR3
5 unique J



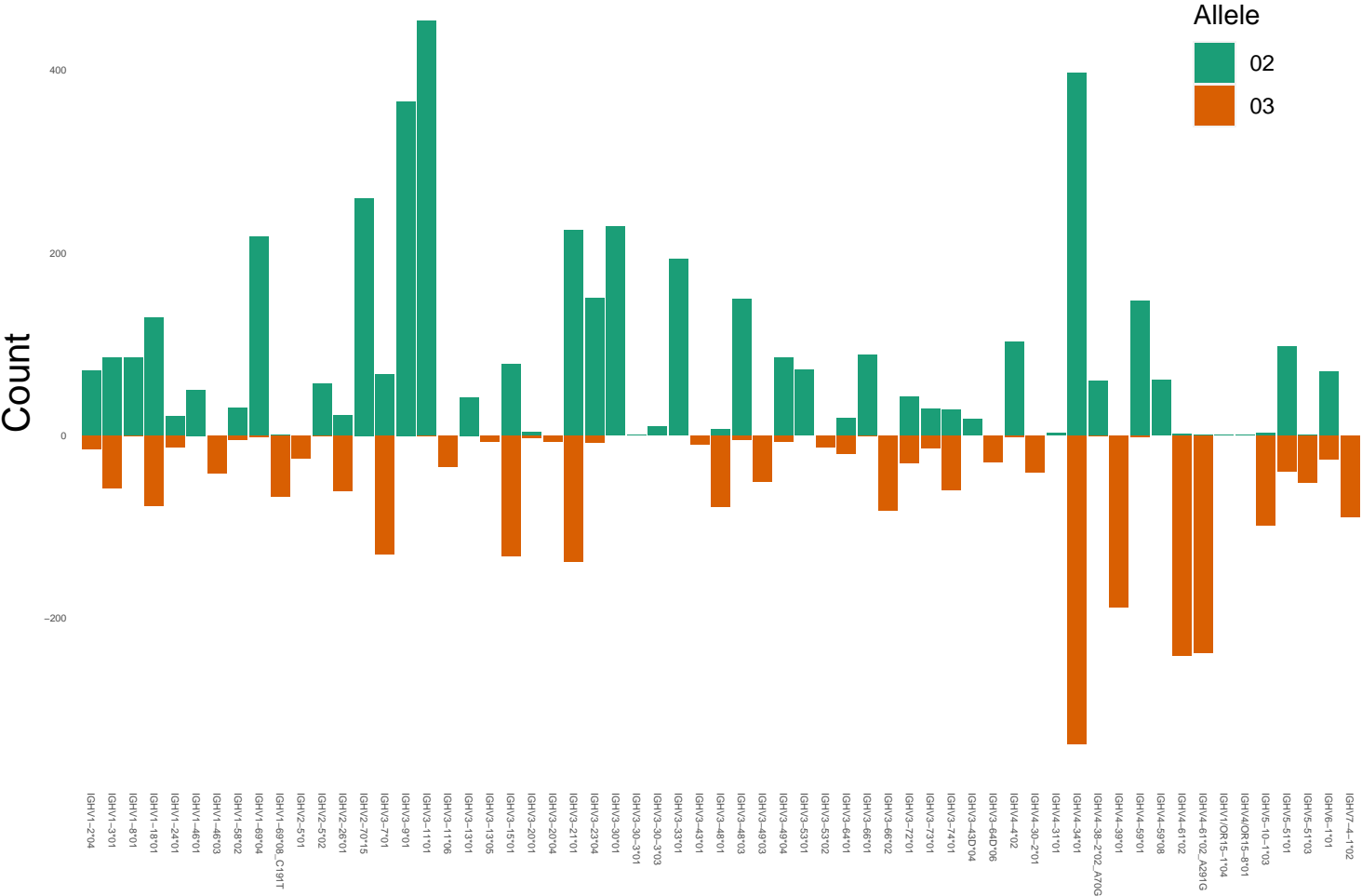
IGHV3/OR16–15*02

1 sequences assigned
No exact matches.





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.