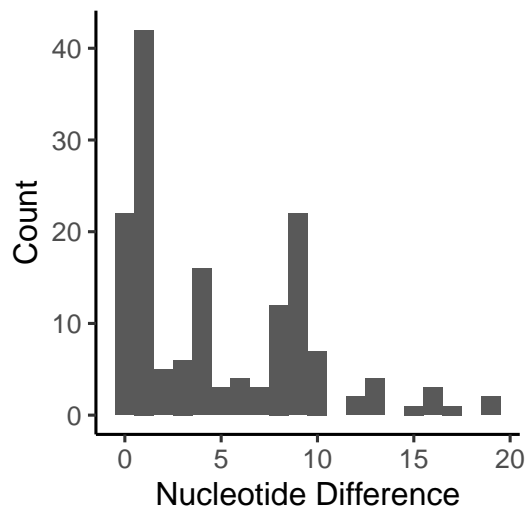


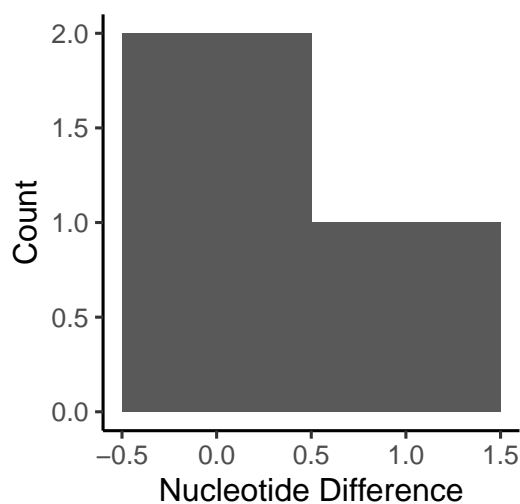
IGHV1-2*02

174 sequences assigned
22 (12.6%) exact matches, in which:
16 unique CDR3
5 unique J



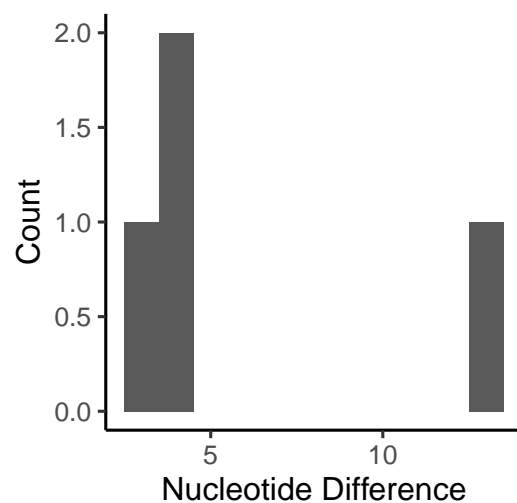
IGHV1-8*01

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



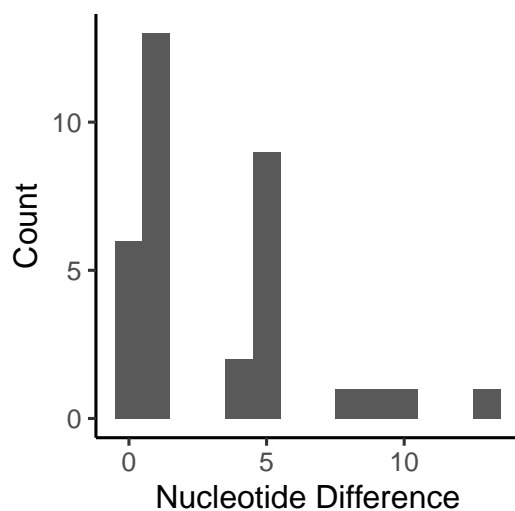
IGHV1-24*01

4 sequences assigned
No exact matches.



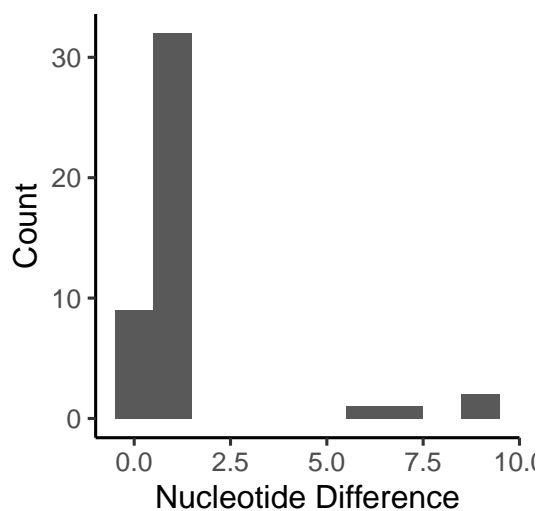
IGHV1-2*04

35 sequences assigned
6 (17.1%) exact matches, in which:
3 unique CDR3
2 unique J



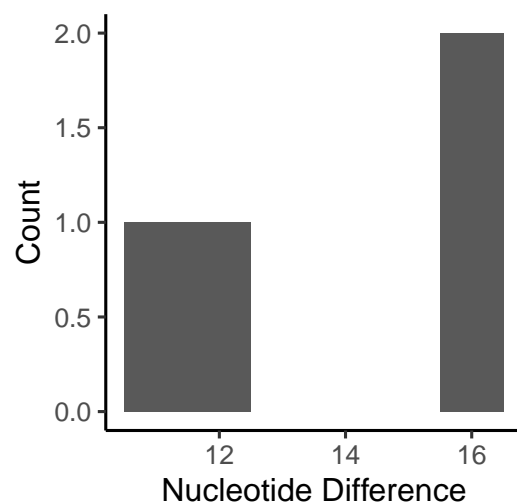
IGHV1-8*03

45 sequences assigned
9 (20%) exact matches, in which:
5 unique CDR3
1 unique J



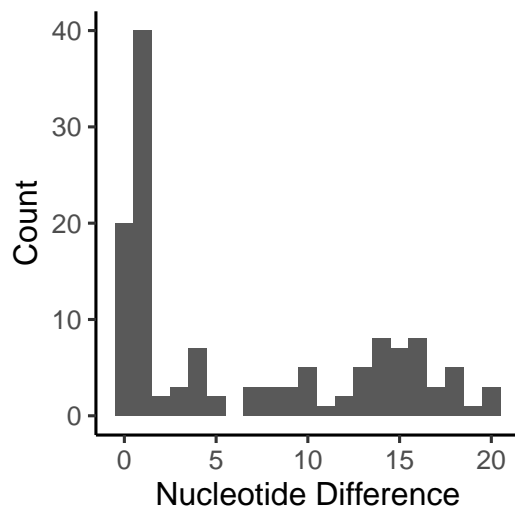
IGHV1-45*02

13 sequences assigned
No exact matches.



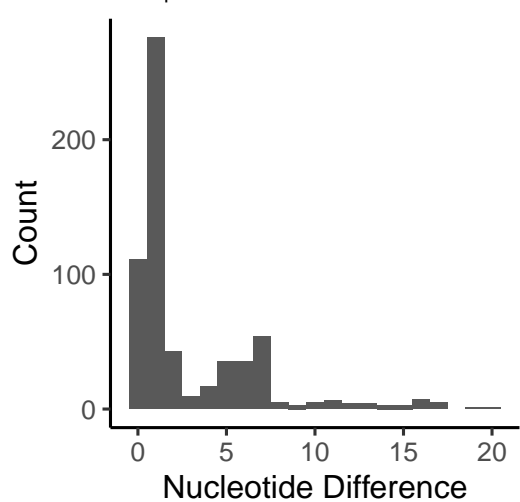
IGHV1-3*01_05

147 sequences assigned
20 (13.6%) exact matches, in which:
15 unique CDR3
4 unique J



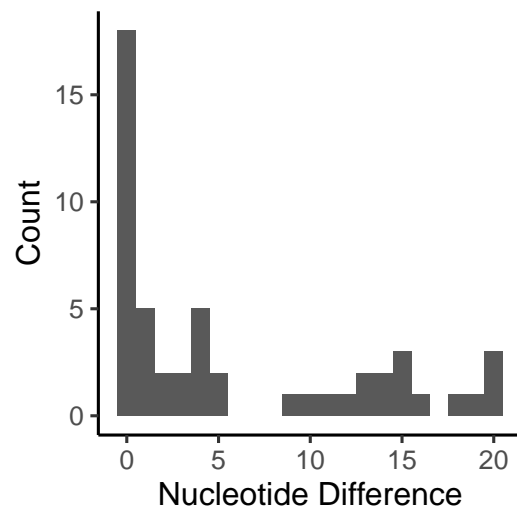
IGHV1-18*01

652 sequences assigned
111 (17%) exact matches, in which:
70 unique CDR3
6 unique J



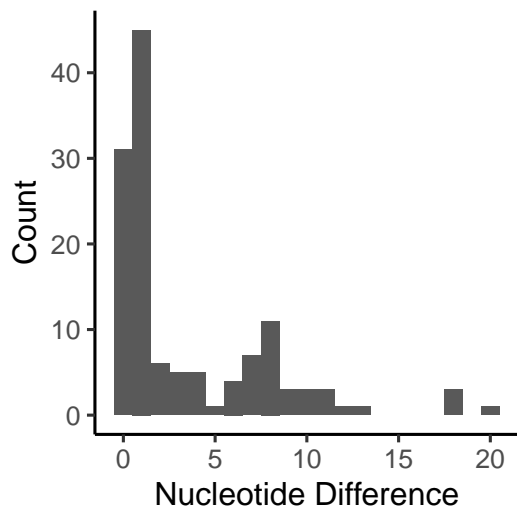
IGHV1-46*01

66 sequences assigned
18 (27.3%) exact matches, in which:
17 unique CDR3
6 unique J



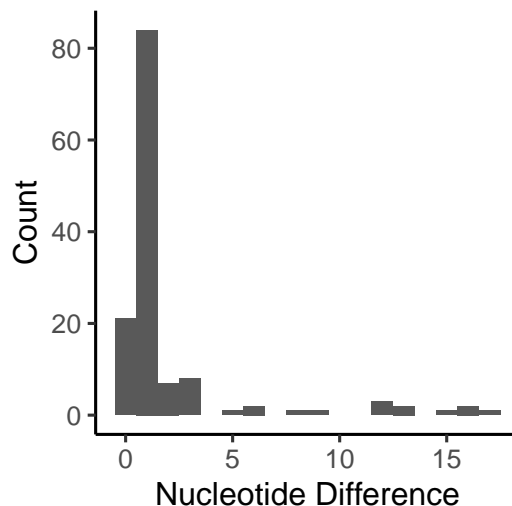
IGHV1-46*03

161 sequences assigned
31 (19.3%) exact matches, in which:
25 unique CDR3
3 unique J



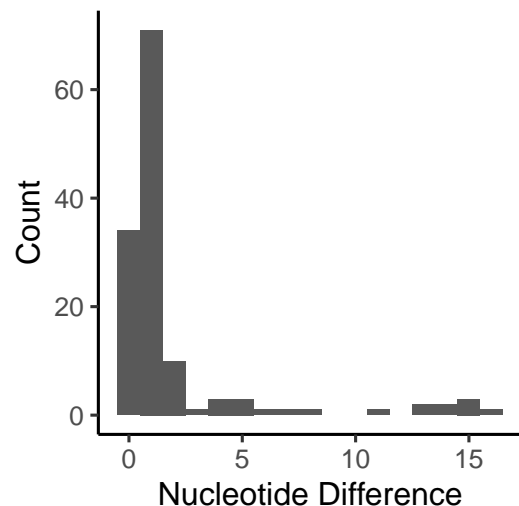
IGHV1-69-2*01

149 sequences assigned
21 (14.1%) exact matches, in which:
13 unique CDR3
3 unique J



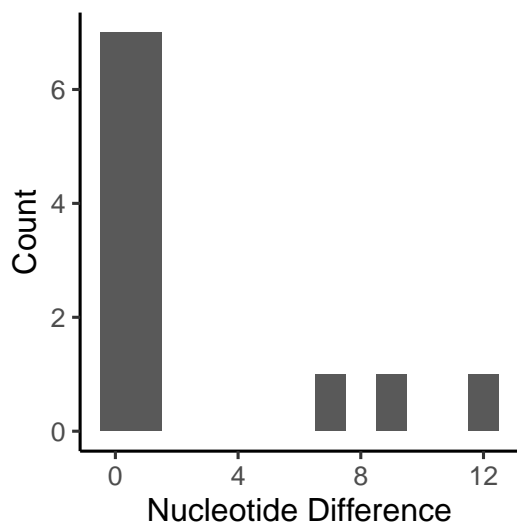
IGHV1-69*06_14

138 sequences assigned
34 (24.6%) exact matches, in which:
24 unique CDR3
5 unique J



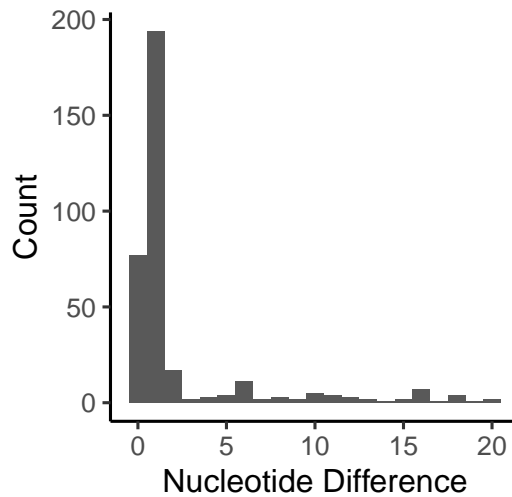
IGHV1-58*02

19 sequences assigned
7 (36.8%) exact matches, in which:
4 unique CDR3
2 unique J



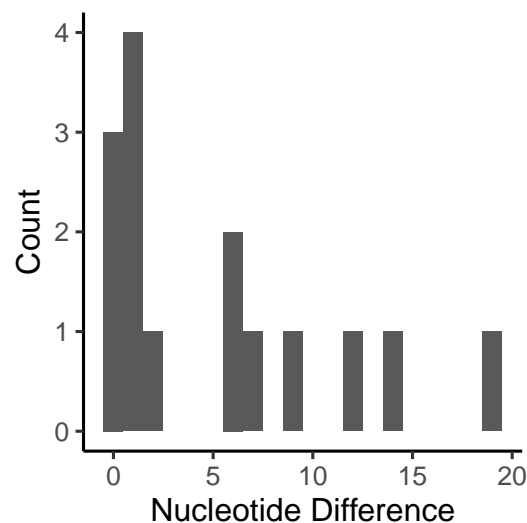
IGHV1-69*01_12_13

364 sequences assigned
77 (21.2%) exact matches, in which:
56 unique CDR3
6 unique J



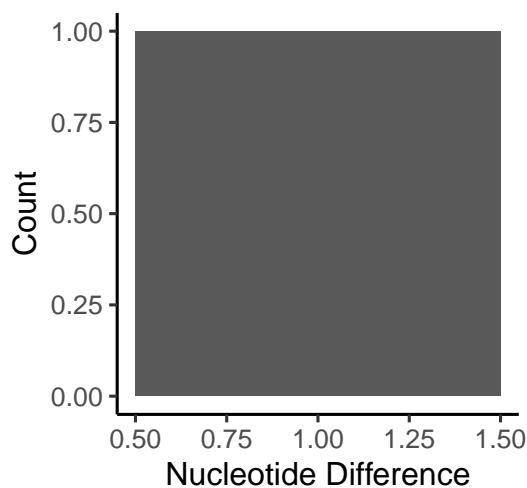
IGHV2-5*01

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



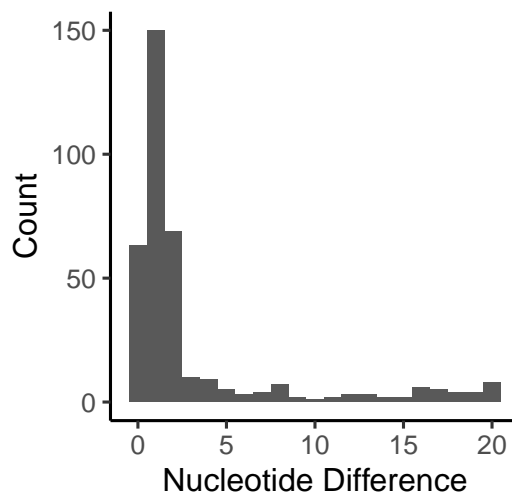
IGHV1-58*01_03

1 sequences assigned
No exact matches.



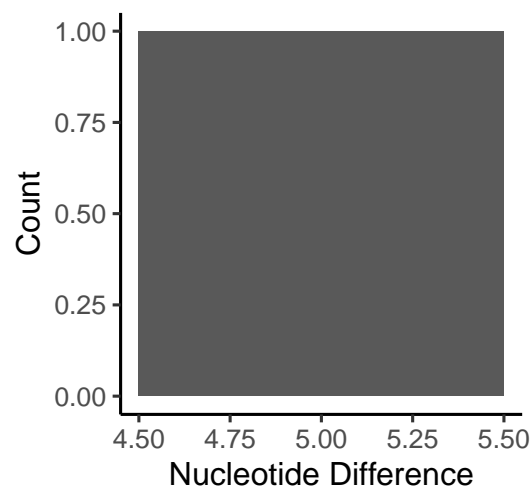
IGHV1-69*05_T184C_C1

557 sequences assigned
63 (11.3%) exact matches, in which:
35 unique CDR3
5 unique J



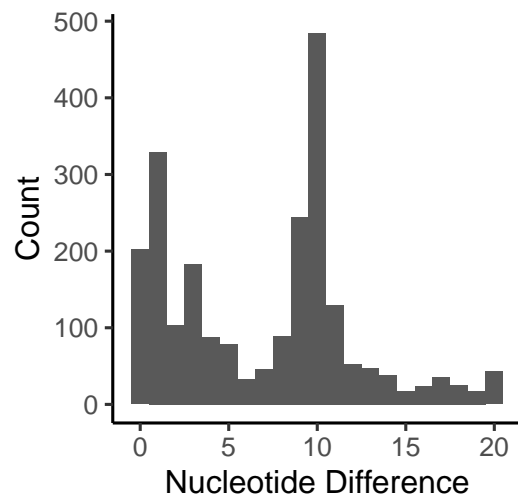
IGHV2-70*16_17

1 sequences assigned
No exact matches.



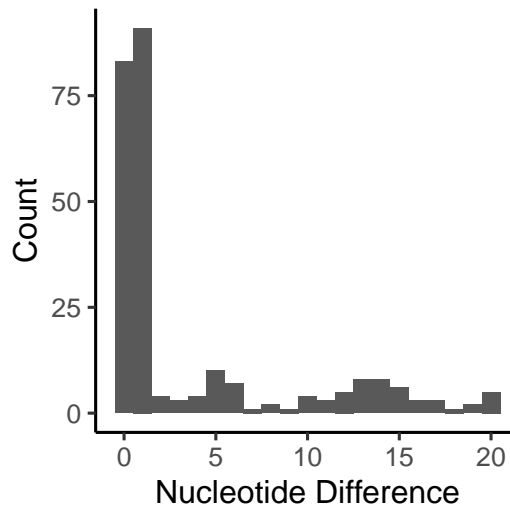
IGHV3-7*01

2497 sequences assigned
202 (8.1%) exact matches, in which:
123 unique CDR3
7 unique J



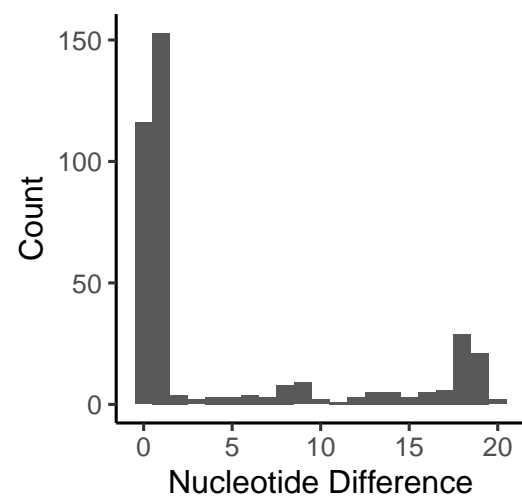
IGHV3-11*04

338 sequences assigned
83 (24.6%) exact matches, in which:
54 unique CDR3
5 unique J



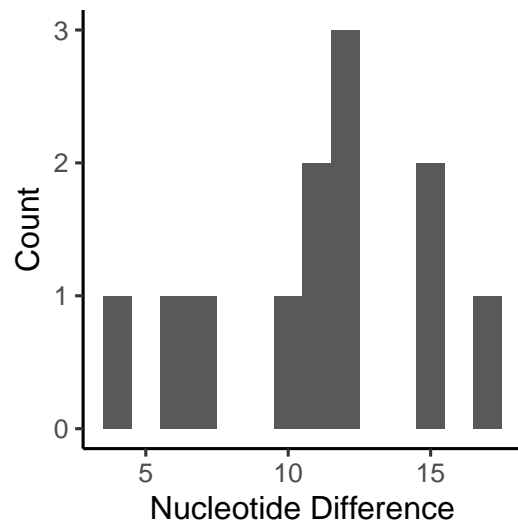
IGHV3-21*01_02

405 sequences assigned
116 (28.6%) exact matches, in which:
67 unique CDR3
7 unique J



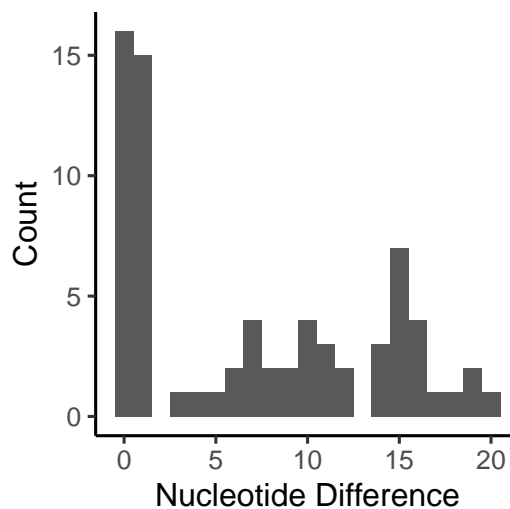
IGHV3-9*01

14 sequences assigned
No exact matches.



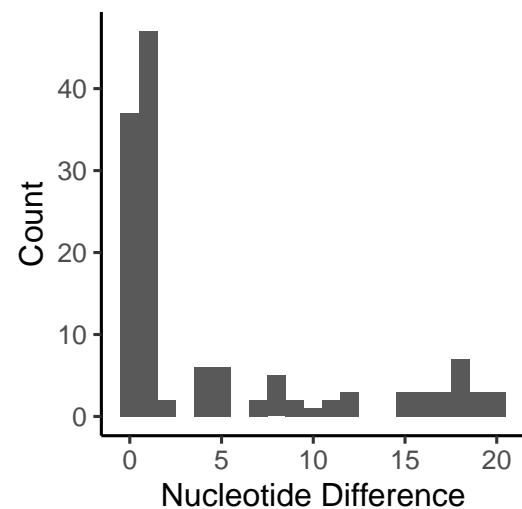
IGHV3-15*01_02

96 sequences assigned
16 (16.7%) exact matches, in which:
13 unique CDR3
3 unique J



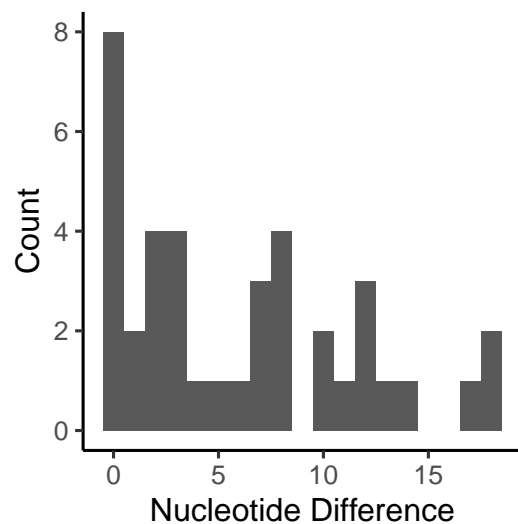
IGHV3-23*03

166 sequences assigned
37 (22.3%) exact matches, in which:
24 unique CDR3
4 unique J



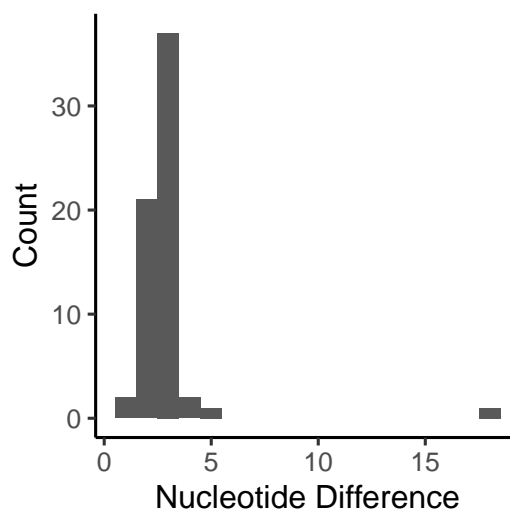
IGHV3-9*03

42 sequences assigned
8 (19%) exact matches, in which:
8 unique CDR3
4 unique J



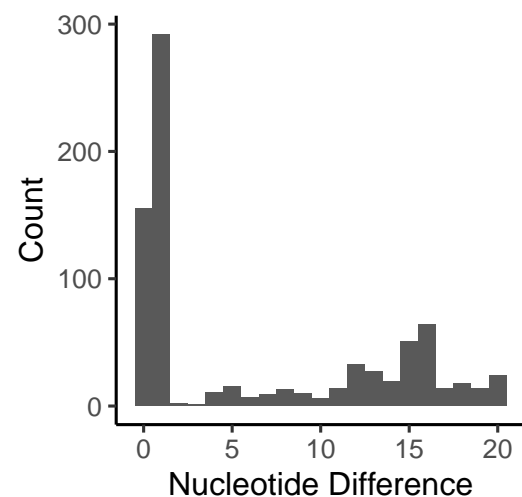
IGHV3-20*03_04

65 sequences assigned
No exact matches.



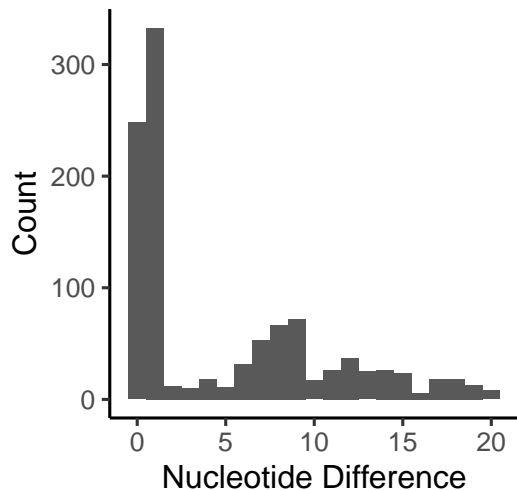
IGHV3-23*01_04

1002 sequences assigned
155 (15.5%) exact matches, in which:
79 unique CDR3
6 unique J



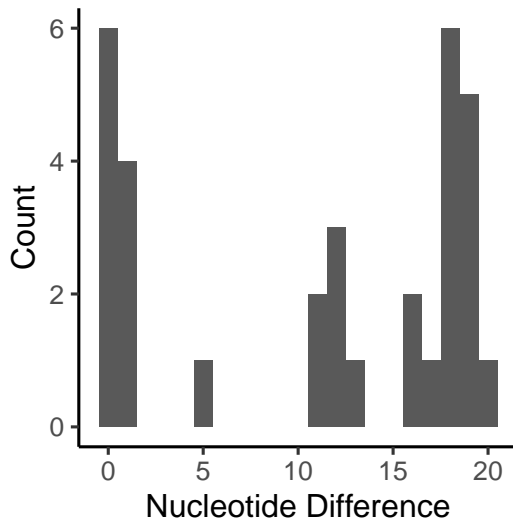
IGHV3-30*02_T201C

1132 sequences assigned
248 (21.9%) exact matches, in which:
136 unique CDR3
7 unique J



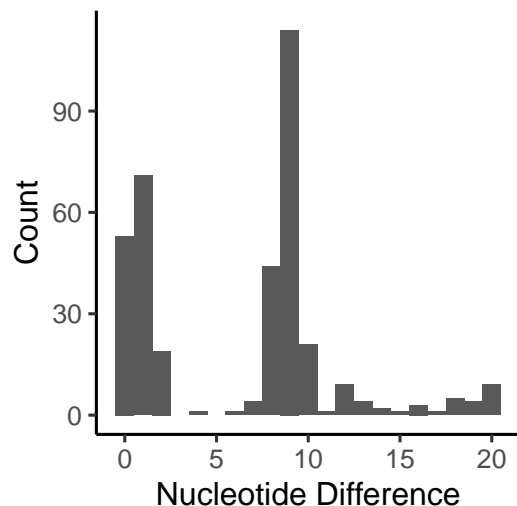
IGHV3-43*01

77 sequences assigned
6 (7.8%) exact matches, in which:
6 unique CDR3
3 unique J



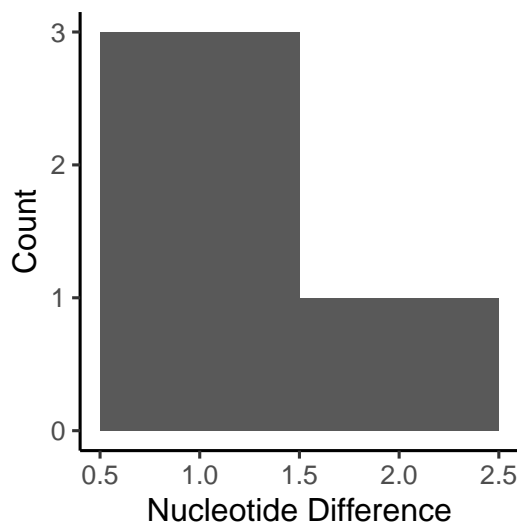
IGHV3-49*03_05

417 sequences assigned
53 (12.7%) exact matches, in which:
37 unique CDR3
6 unique J



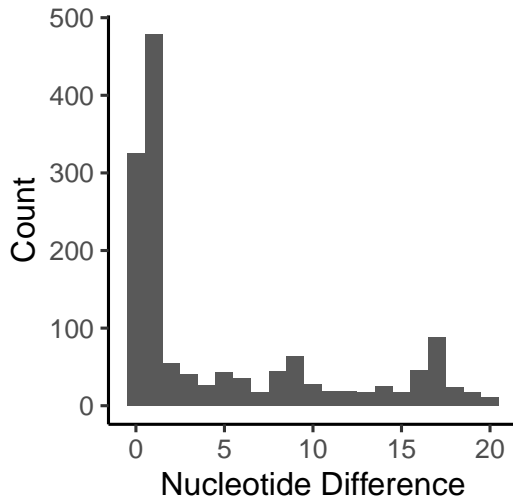
IGHV3-33*06

4 sequences assigned
No exact matches.



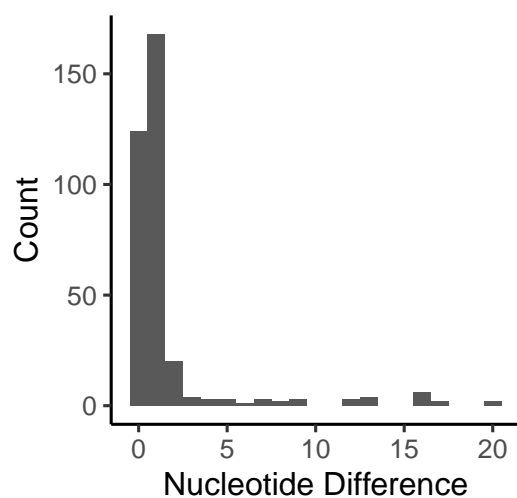
IGHV3-48*01

1604 sequences assigned
326 (20.3%) exact matches, in which:
180 unique CDR3
7 unique J



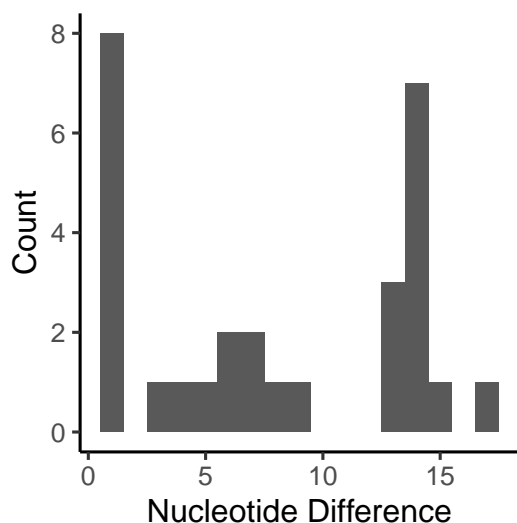
IGHV3-53*04

348 sequences assigned
124 (35.6%) exact matches, in which:
71 unique CDR3
4 unique J



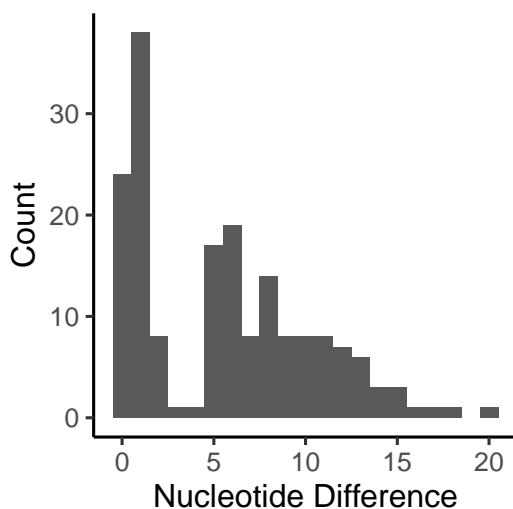
IGHV3-33*08

31 sequences assigned
No exact matches.



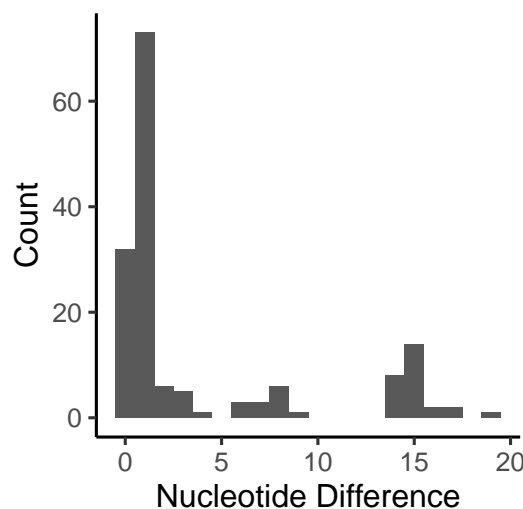
IGHV3-49*04

180 sequences assigned
24 (13.3%) exact matches, in which:
17 unique CDR3
4 unique J



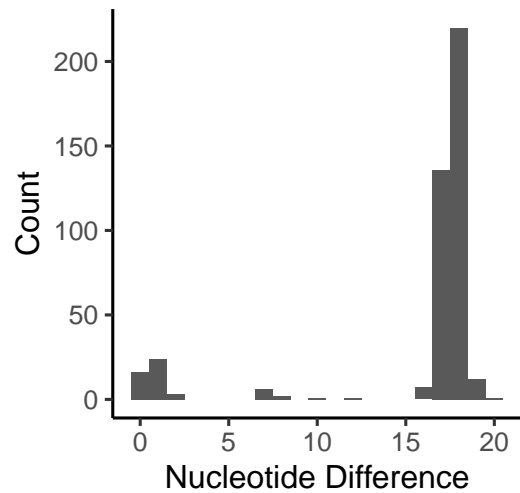
IGHV3-53*01_02

169 sequences assigned
32 (18.9%) exact matches, in which:
16 unique CDR3
1 unique J



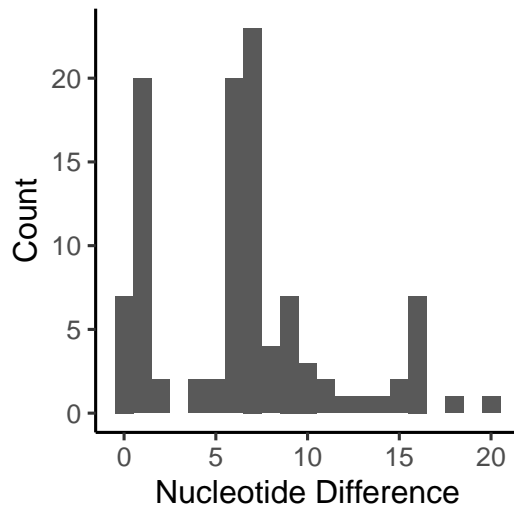
IGHV3-64*01

437 sequences assigned
16 (3.7%) exact matches, in which:
13 unique CDR3
3 unique J



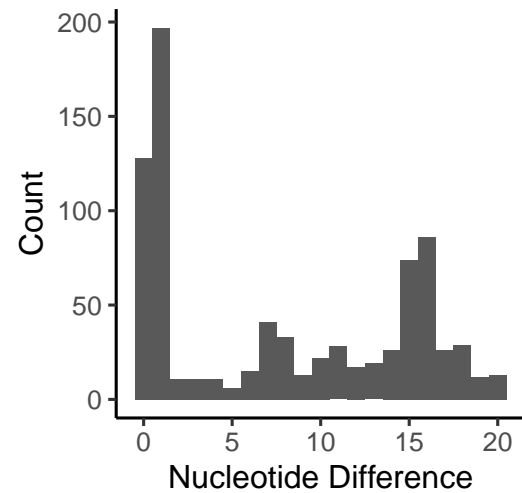
IGHV3-72*01

112 sequences assigned
7 (6.2%) exact matches, in which:
5 unique CDR3
3 unique J



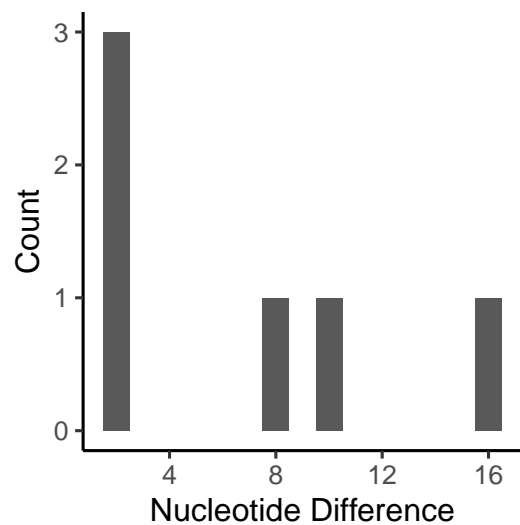
IGHV3-74*01_02

861 sequences assigned
128 (14.9%) exact matches, in which:
77 unique CDR3
4 unique J



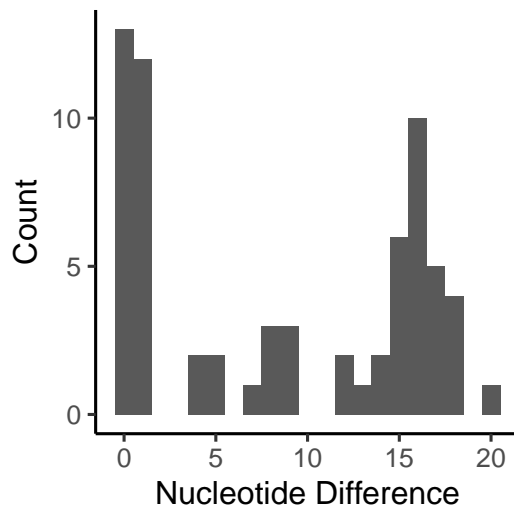
IGHV3-66*03

6 sequences assigned
No exact matches.



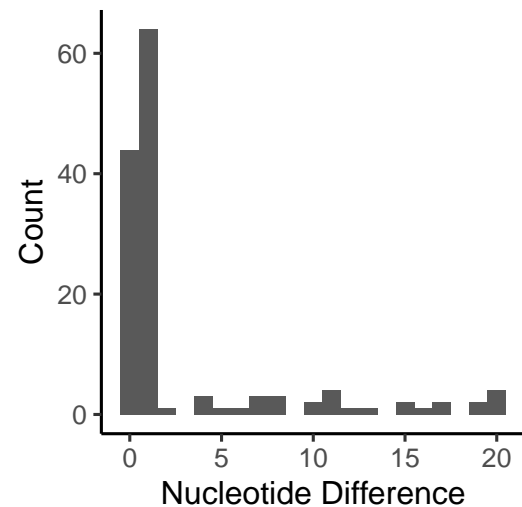
IGHV3-73*01_02

77 sequences assigned
13 (16.9%) exact matches, in which:
10 unique CDR3
3 unique J



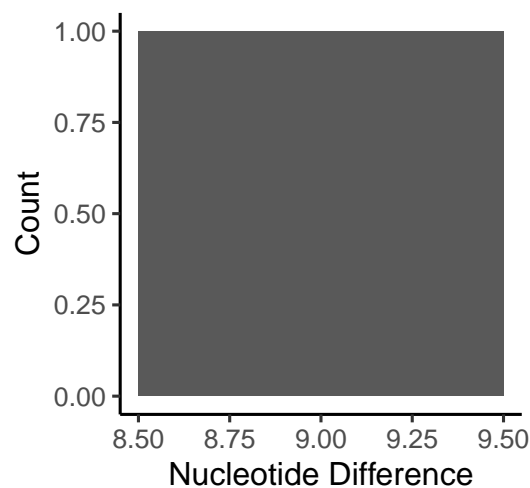
IGHV3-43D*04

139 sequences assigned
44 (31.7%) exact matches, in which:
29 unique CDR3
3 unique J



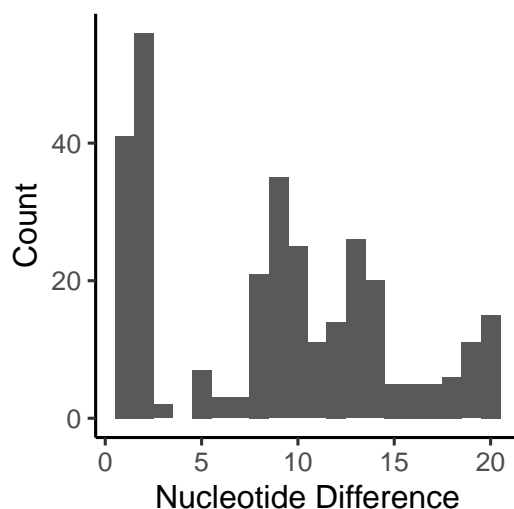
IGHV3-69-1*01

1 sequences assigned
No exact matches.



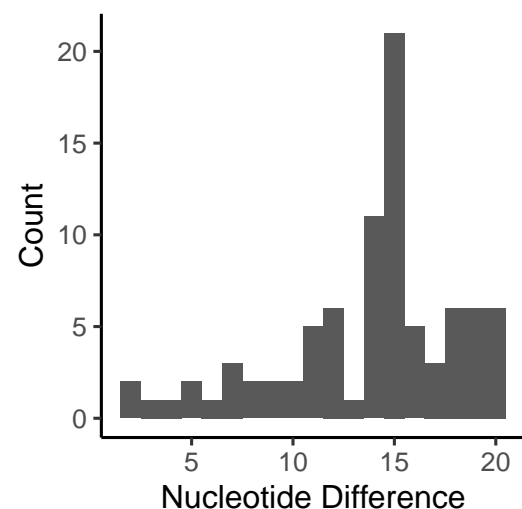
IGHV3-74*03

343 sequences assigned
No exact matches.



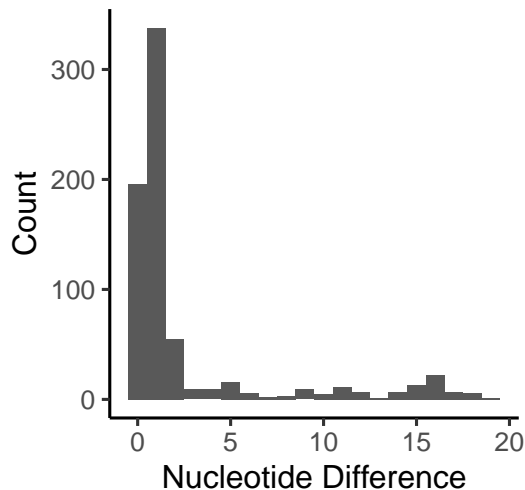
IGHV4-4*07

128 sequences assigned
No exact matches.



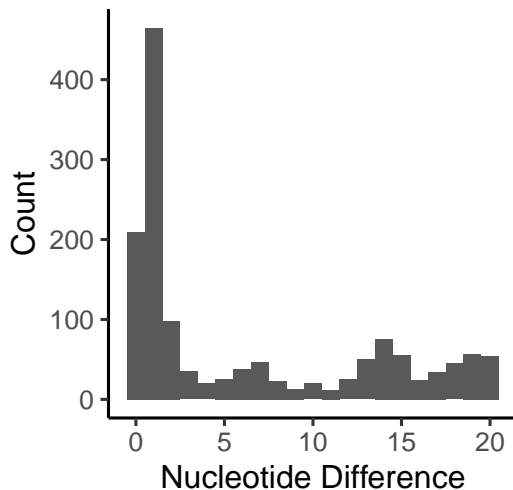
IGHV4-4*02_03

747 sequences assigned
196 (26.2%) exact matches, in which:
114 unique CDR3
7 unique J



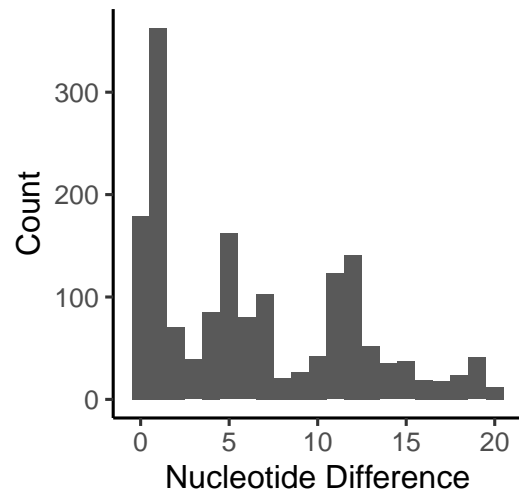
IGHV4-38-2*01

1811 sequences assigned
209 (11.5%) exact matches, in which:
124 unique CDR3
6 unique J



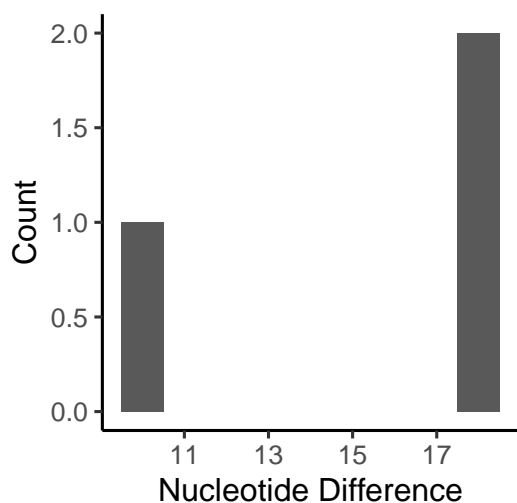
IGHV4-59*08

1782 sequences assigned
179 (10%) exact matches, in which:
119 unique CDR3
6 unique J



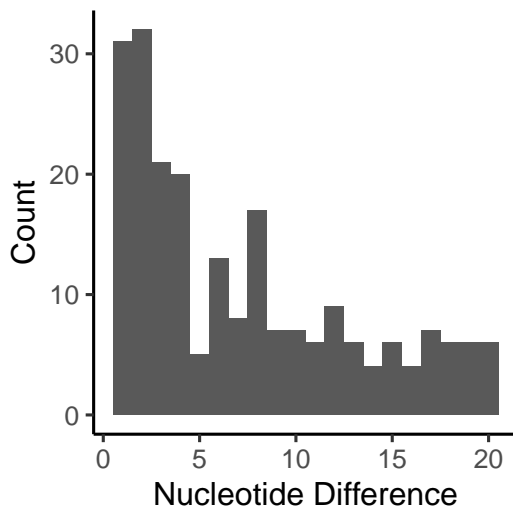
IGHV4-30-2*03

3 sequences assigned
No exact matches.



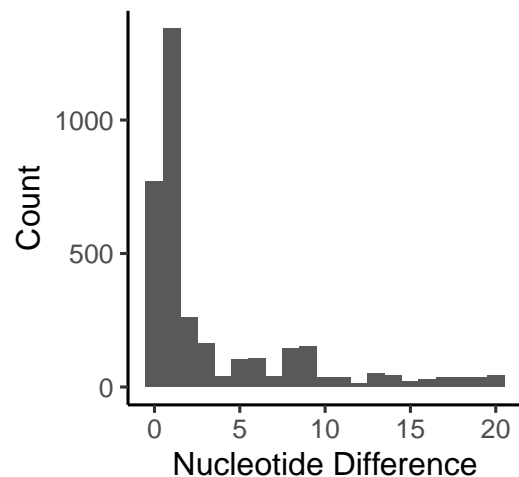
IGHV4-39*07

230 sequences assigned
No exact matches.



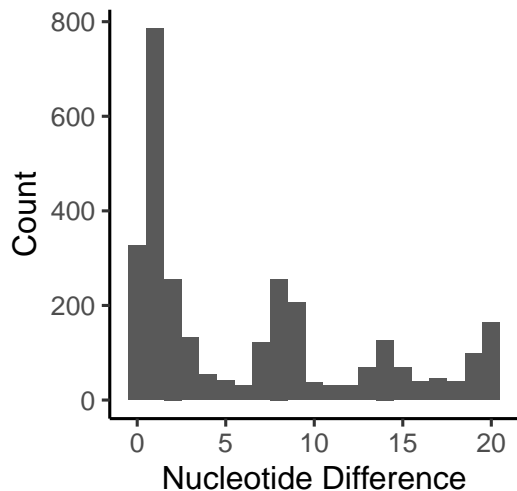
IGHV4-59*02_G88A

3616 sequences assigned
768 (21.2%) exact matches, in which:
384 unique CDR3
7 unique J



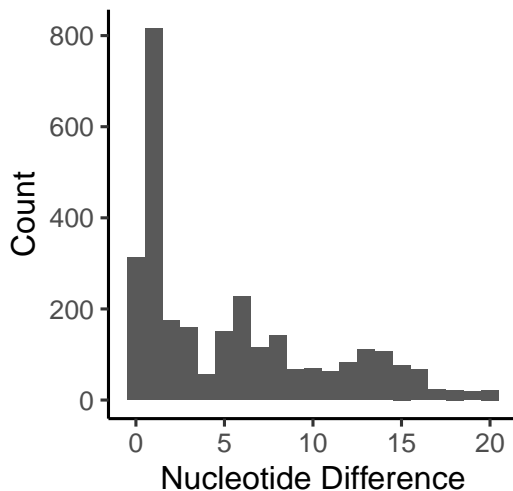
IGHV4-34*01_02

3265 sequences assigned
326 (10%) exact matches, in which:
187 unique CDR3
7 unique J



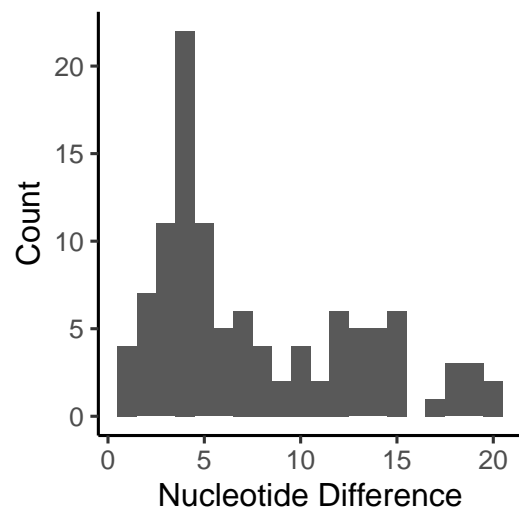
IGHV4-39*02_C258G

3110 sequences assigned
313 (10.1%) exact matches, in which:
198 unique CDR3
7 unique J



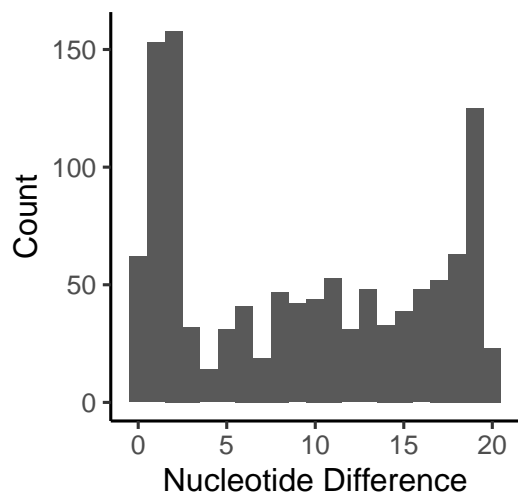
IGHV4-61*01

157 sequences assigned
No exact matches.



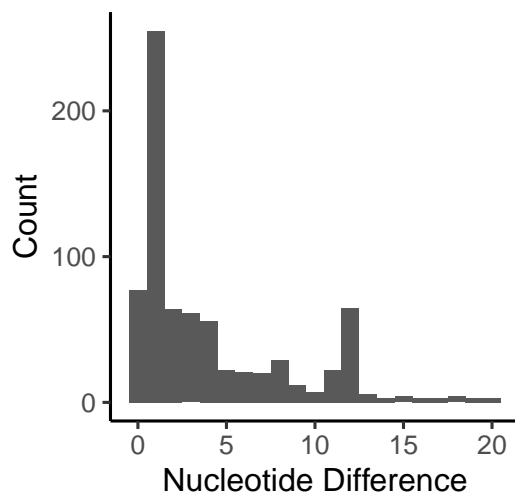
IGHV4–61*02

1200 sequences assigned
62 (5.2%) exact matches, in which:
41 unique CDR3
6 unique J



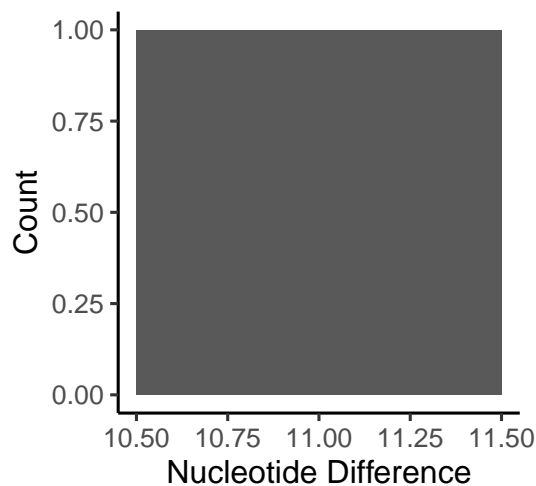
IGHV5–51*01_03

757 sequences assigned
77 (10.2%) exact matches, in which:
54 unique CDR3
6 unique J



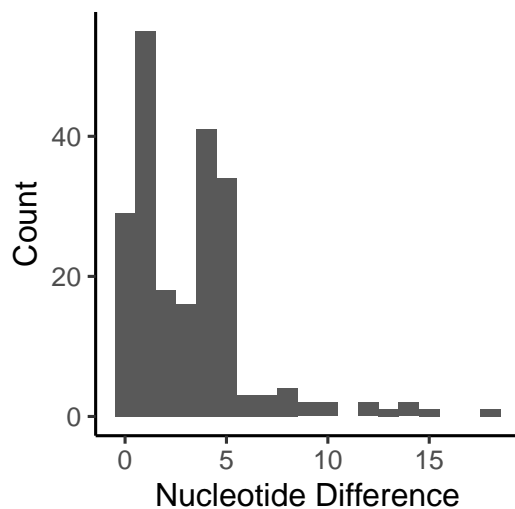
IGHV4/OR15–8*01

1 sequences assigned
No exact matches.



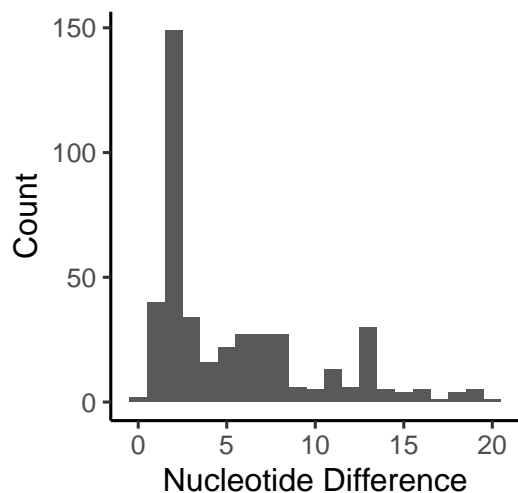
IGHV6–1*01_02

305 sequences assigned
29 (9.5%) exact matches, in which:
17 unique CDR3
4 unique J



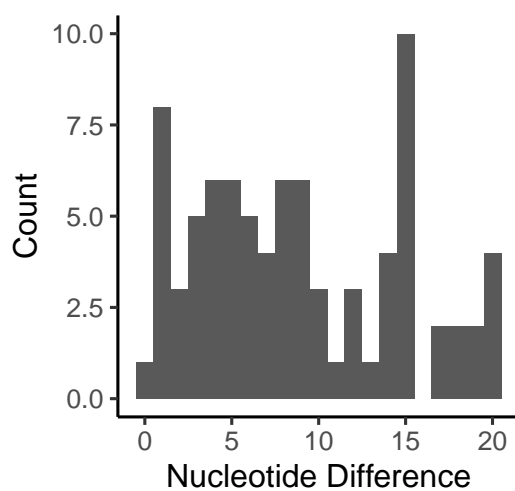
IGHV5–51*07

448 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
2 unique J

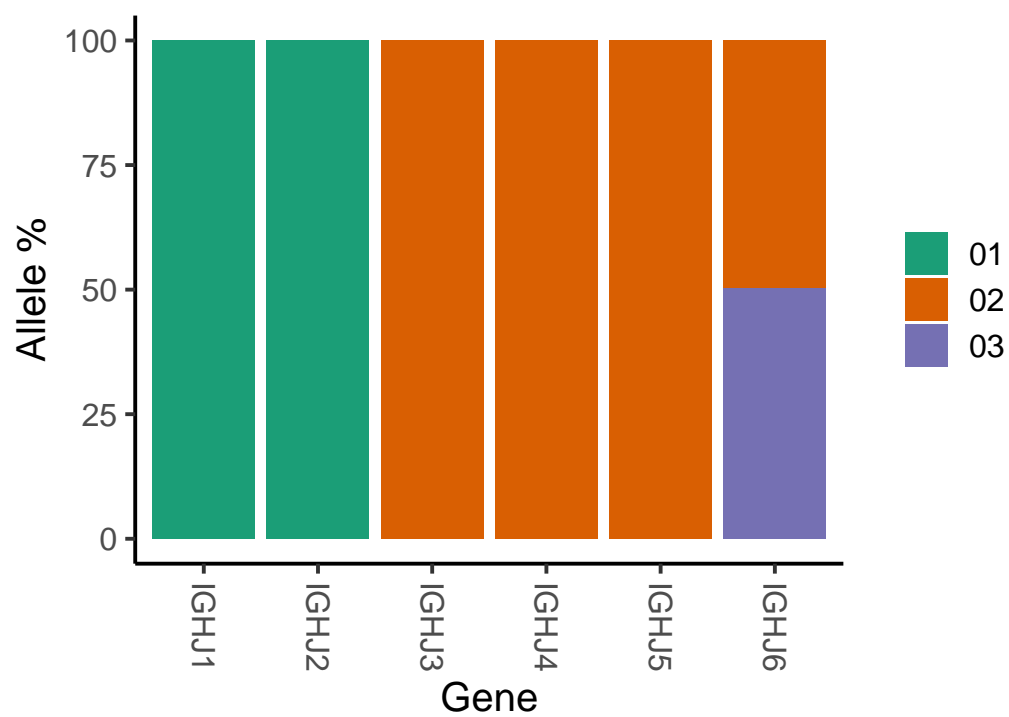


IGHV7–4–1*02

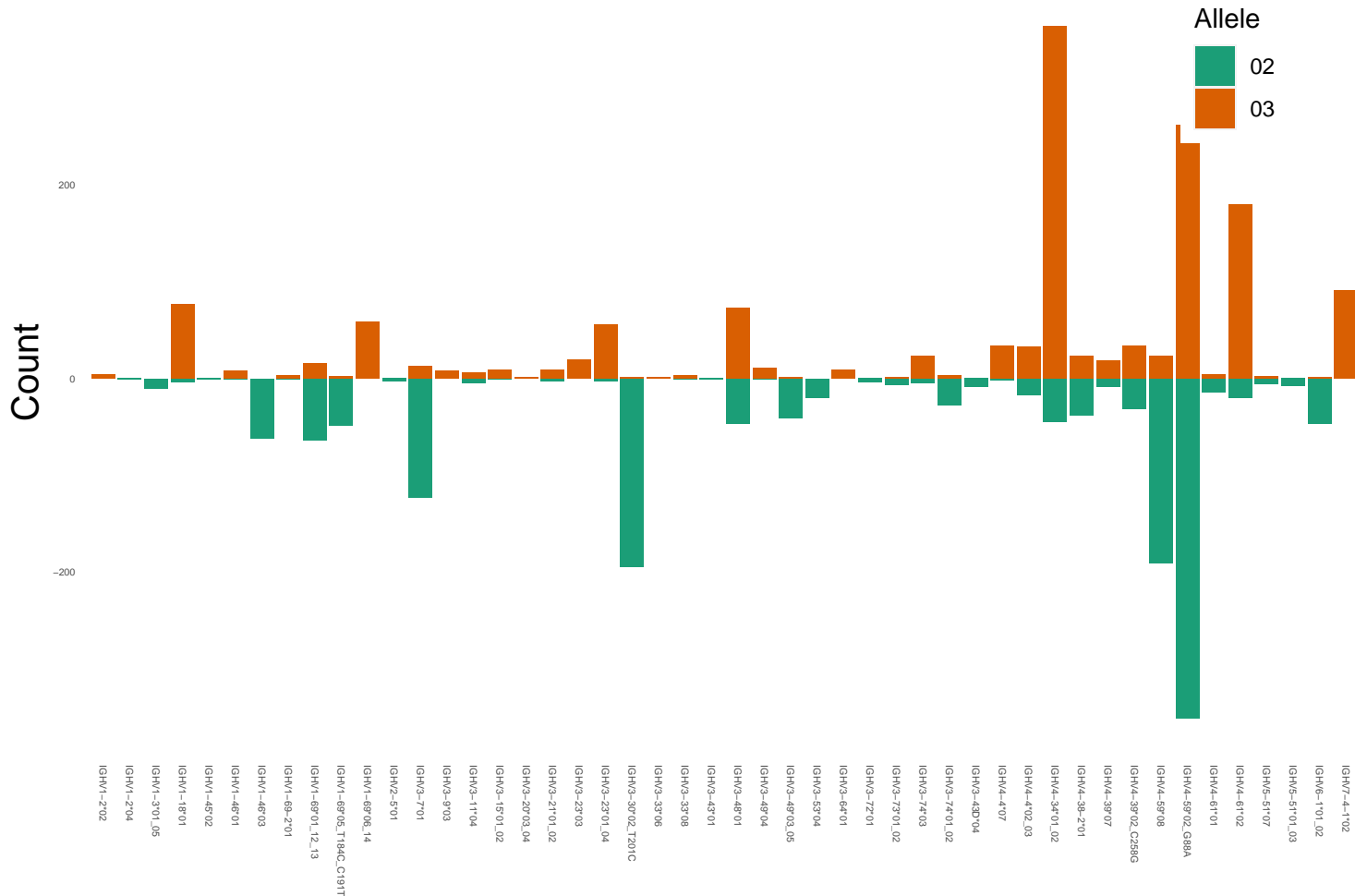
180 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.