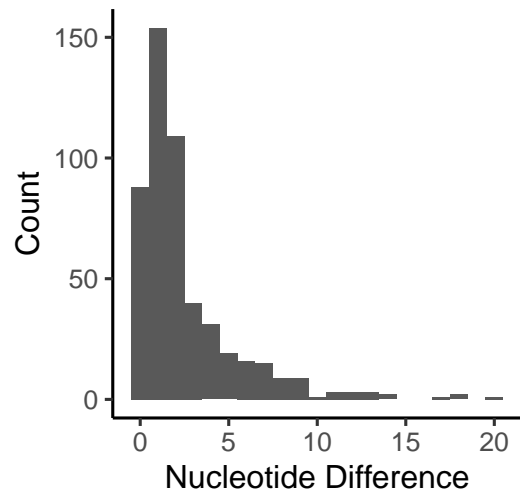


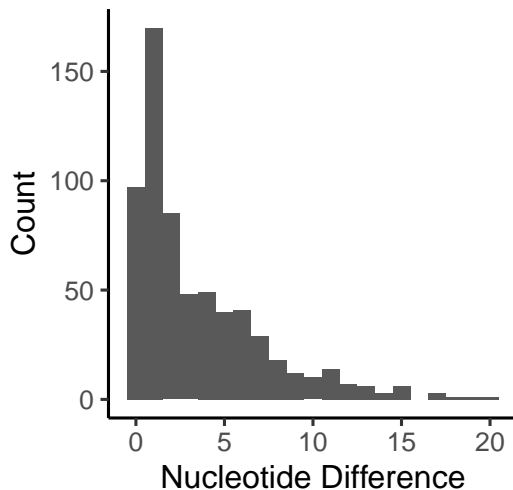
IGHV1S10*01_G167T

506 sequences assigned
88 (17.4%) exact matches, in which:
81 unique CDR3
5 unique J



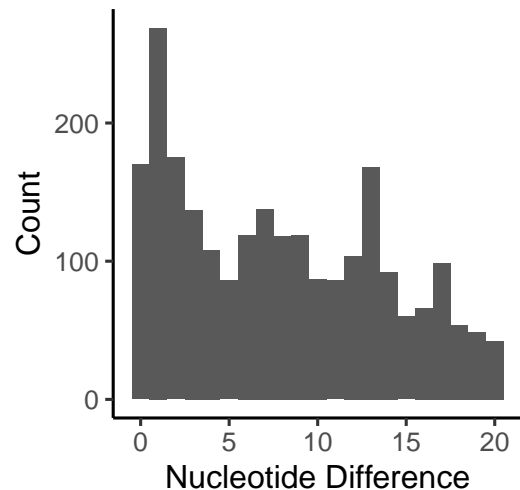
IGHV2S1*01_C34T_C95C

656 sequences assigned
97 (14.8%) exact matches, in which:
88 unique CDR3
5 unique J



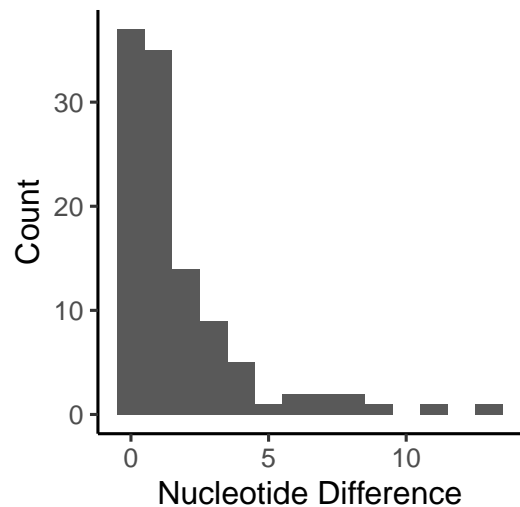
IGHV3S11*01_T51A_C78G

2499 sequences assigned
170 (6.8%) exact matches, in which:
141 unique CDR3
6 unique J



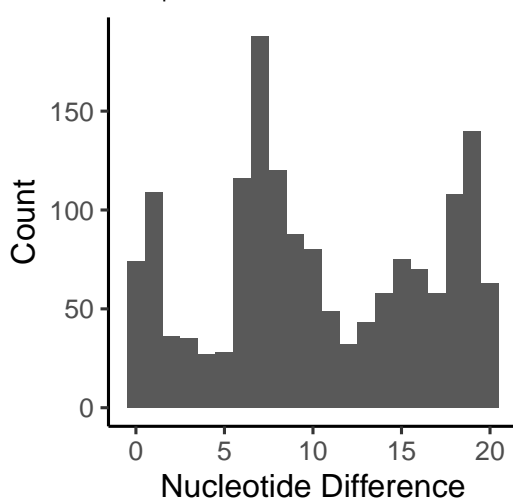
IGHV1S10*01_G61C_T63

326 sequences assigned
37 (11.3%) exact matches, in which:
36 unique CDR3
6 unique J



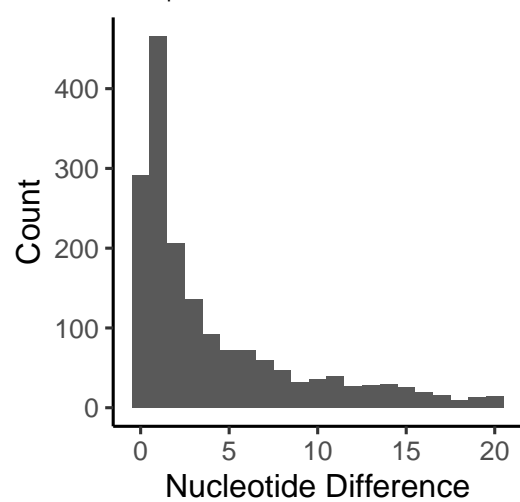
IGHV2S1*01_C91A_C95C

1746 sequences assigned
74 (4.2%) exact matches, in which:
63 unique CDR3
6 unique J



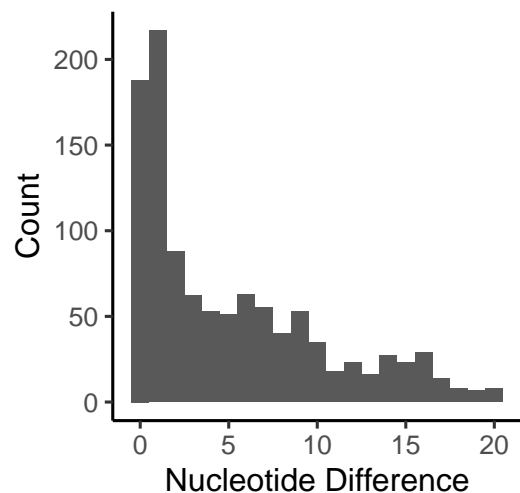
IGHV3S16*01_A116G_G120

2006 sequences assigned
291 (14.5%) exact matches, in which:
247 unique CDR3
6 unique J



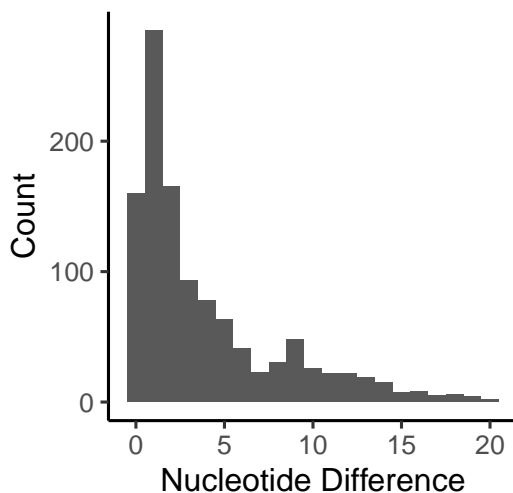
IGHV1S9*01_G18A_G49

1382 sequences assigned
188 (13.6%) exact matches, in which:
170 unique CDR3
6 unique J



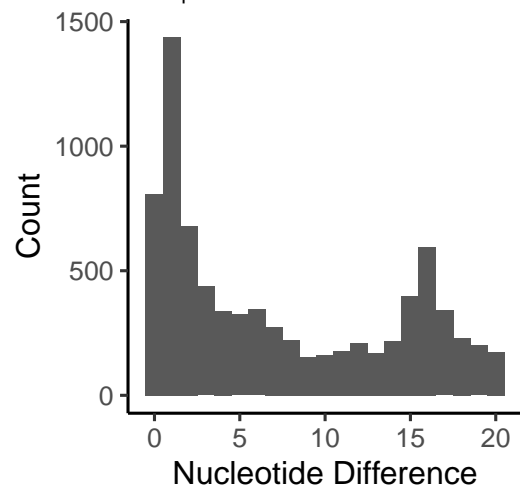
IGHV2S2*01_C6G_G115

1135 sequences assigned
160 (14.1%) exact matches, in which:
138 unique CDR3
6 unique J



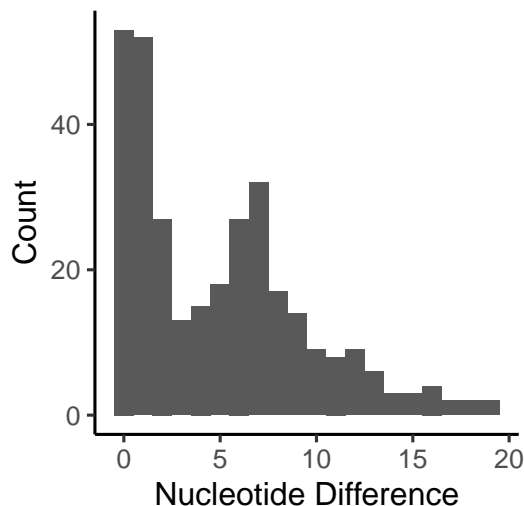
IGHV3S16*01_G24A_A120

8615 sequences assigned
808 (9.4%) exact matches, in which:
679 unique CDR3
6 unique J



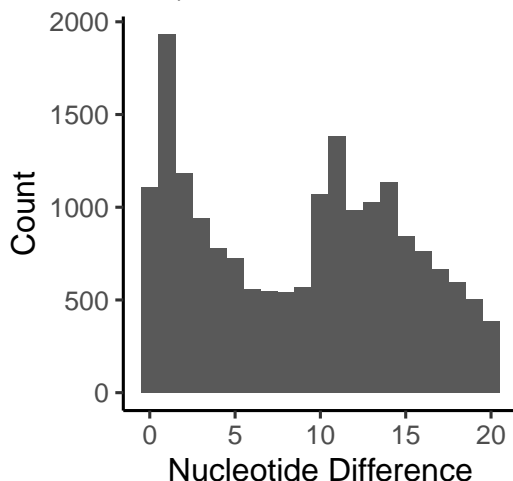
IGHV3S20*01_C34T_G26

354 sequences assigned
53 (15%) exact matches, in which:
50 unique CDR3
5 unique J



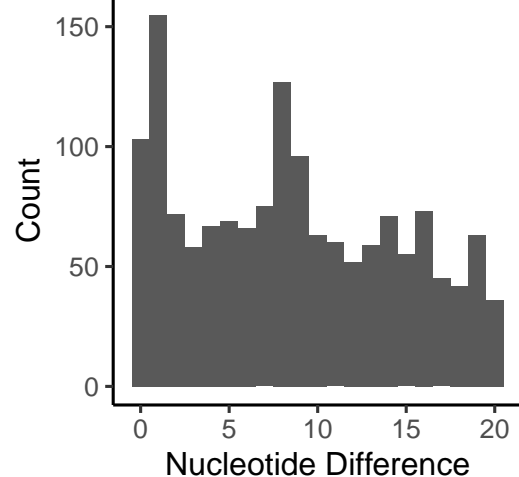
IGHV3S25*01_T78C_G1

21358 sequences assigned
1108 (5.2%) exact matches, in which:
963 unique CDR3
6 unique J



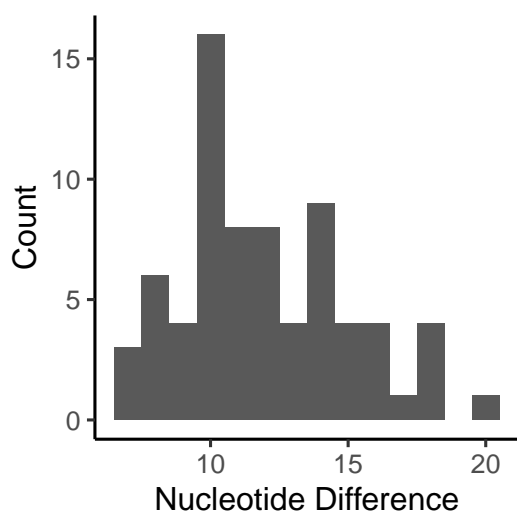
IGHV3S40*01_A27C_C33

2281 sequences assigned
103 (4.5%) exact matches, in which:
95 unique CDR3
6 unique J



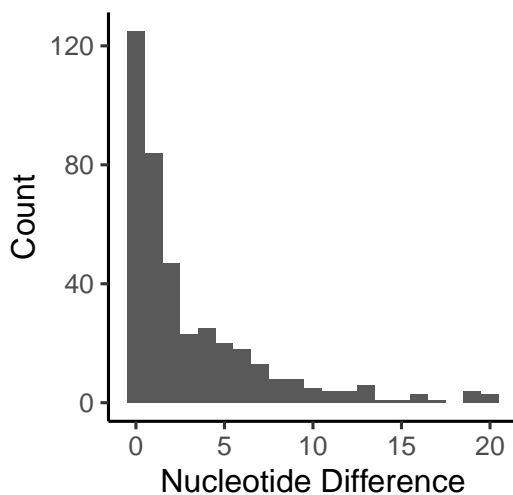
IGHV3S21*01

75 sequences assigned
No exact matches.



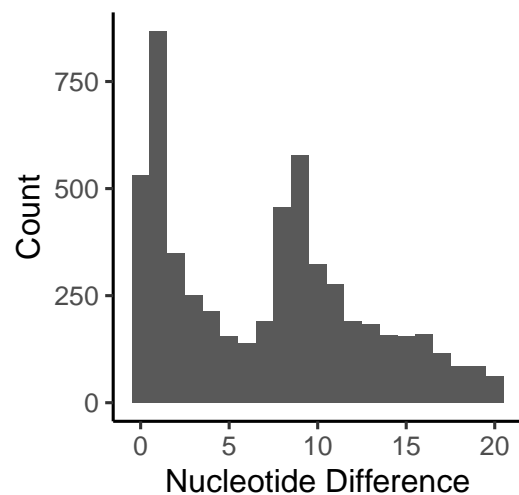
IGHV3S26*01_C3A_C54

636 sequences assigned
125 (19.7%) exact matches, in which:
118 unique CDR3
6 unique J



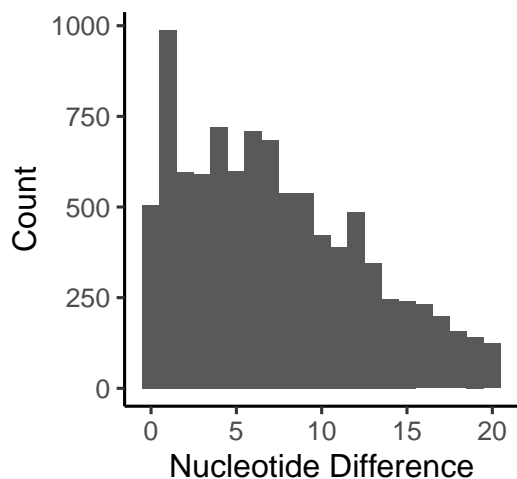
IGHV3S45*01_G26C_G1

6108 sequences assigned
531 (8.7%) exact matches, in which:
453 unique CDR3
6 unique J



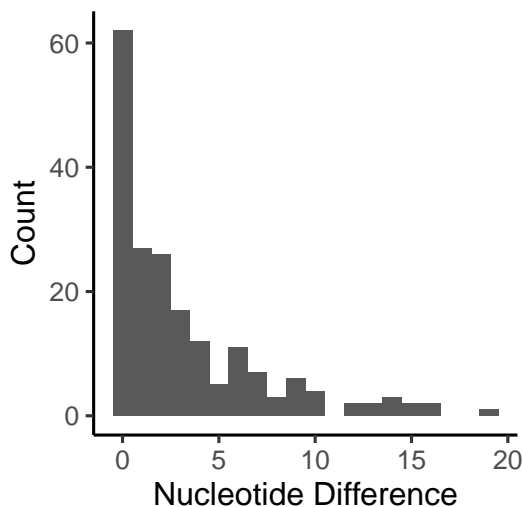
IGHV3S22*01_G3A_T78

10394 sequences assigned
505 (4.9%) exact matches, in which:
424 unique CDR3
6 unique J



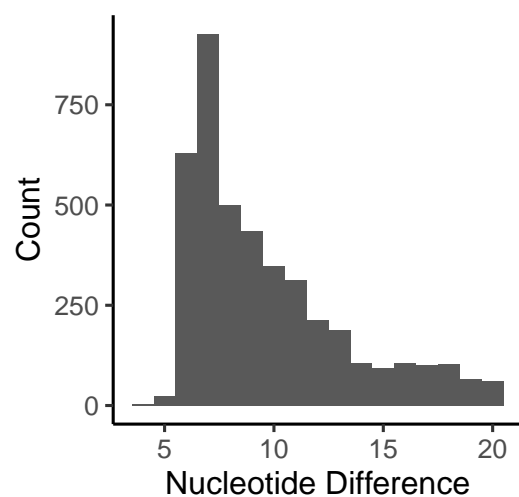
IGHV3S26*01_C54T_C21

212 sequences assigned
62 (29.2%) exact matches, in which:
57 unique CDR3
6 unique J



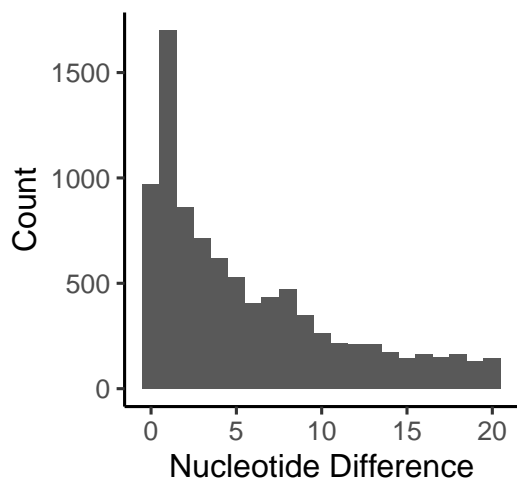
IGHV3S46*01

4413 sequences assigned
No exact matches.



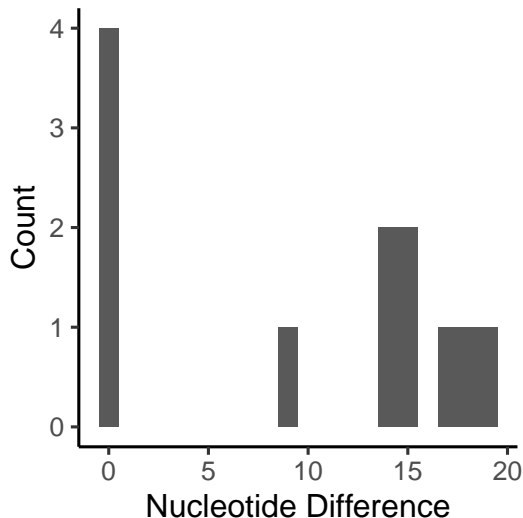
IGHV3S5*01_T19A_G16

10240 sequences assigned
972 (9.5%) exact matches, in which:
838 unique CDR3
6 unique J



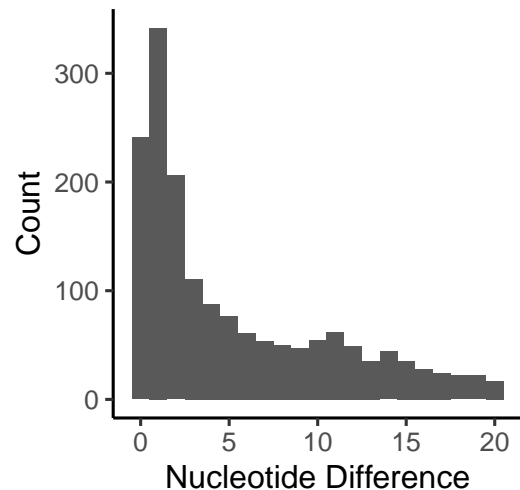
IGHV4S10*01_C90T_G109

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
2 unique J



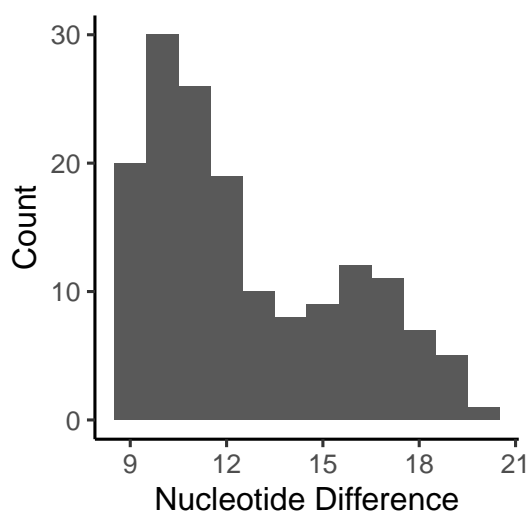
IGHV4S12*01_G34C_C9

1756 sequences assigned
241 (13.7%) exact matches, in which:
228 unique CDR3
6 unique J



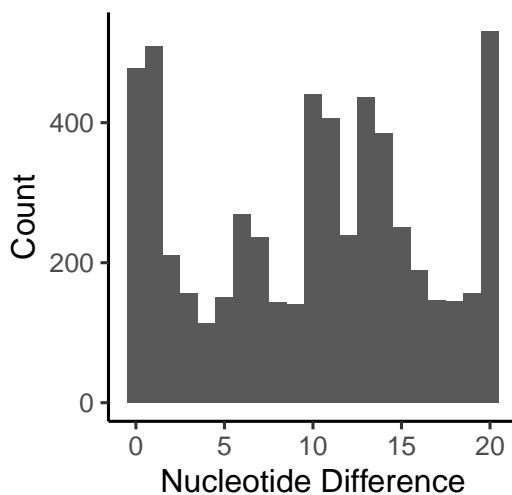
IGHV3S7*01

242 sequences assigned
No exact matches.



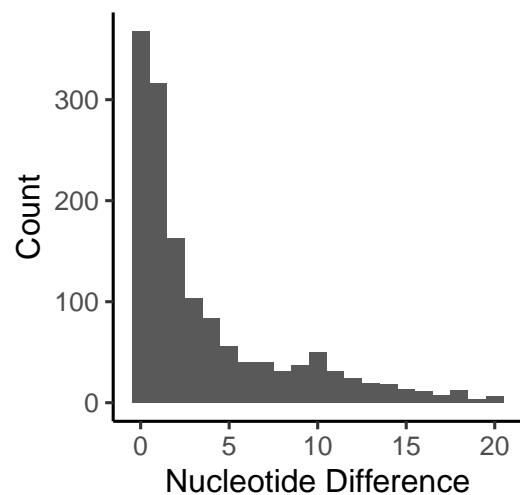
IGHV4S11*01_G4C_C60

7893 sequences assigned
478 (6.1%) exact matches, in which:
432 unique CDR3
6 unique J



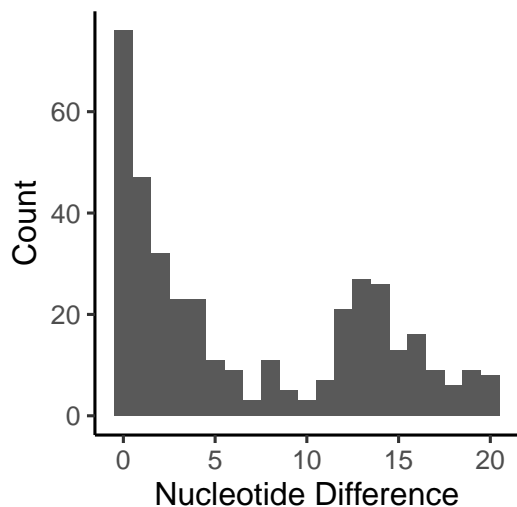
IGHV4S12*01_G34C_C9

1457 sequences assigned
368 (25.3%) exact matches, in which:
352 unique CDR3
6 unique J



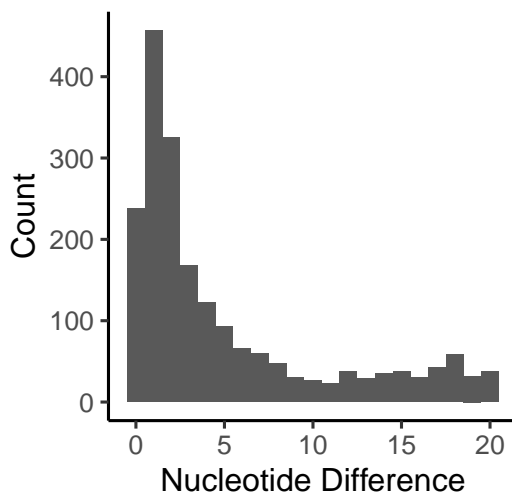
IGHV4S10*01_C90T_G10

505 sequences assigned
76 (15%) exact matches, in which:
73 unique CDR3
6 unique J



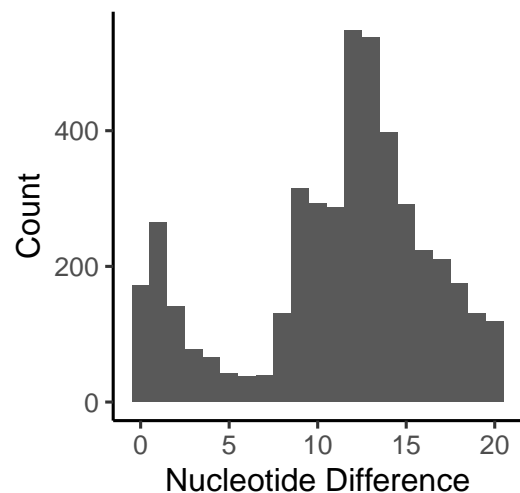
IGHV4S12*01_A199T_A2

2173 sequences assigned
238 (11%) exact matches, in which:
226 unique CDR3
6 unique J



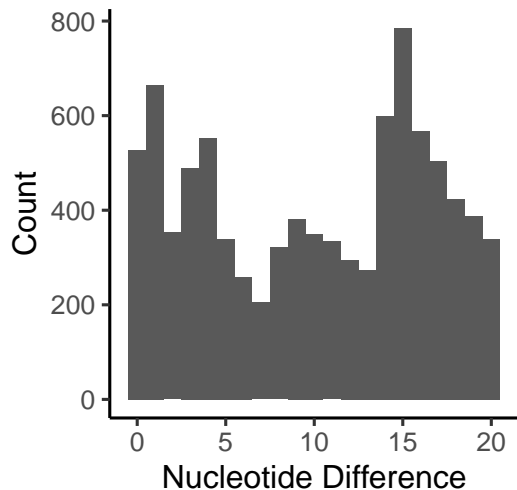
IGHV4S14*01_T90C_A16

5295 sequences assigned
172 (3.2%) exact matches, in which:
164 unique CDR3
6 unique J



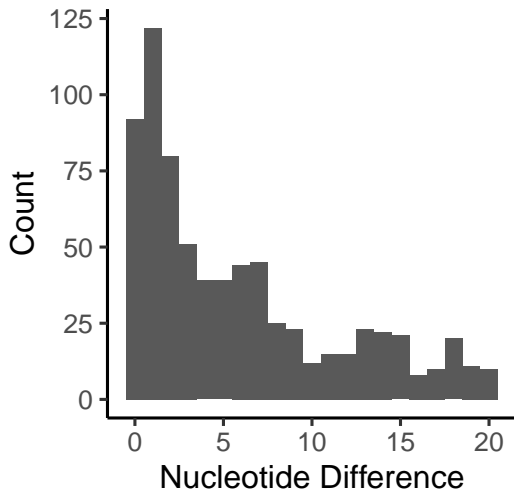
IGHV4S17*01_A166T_A1

11335 sequences assigned
527 (4.6%) exact matches, in which:
497 unique CDR3
6 unique J



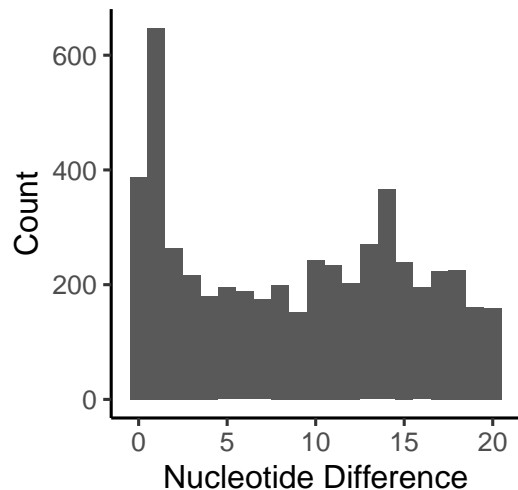
IGHV4S9*01_G32C_C34

785 sequences assigned
92 (11.7%) exact matches, in which:
84 unique CDR3
6 unique J



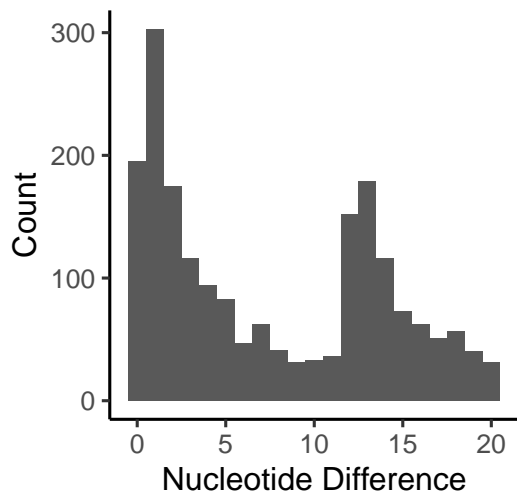
IGHV3-6*01_C61G_T122

6339 sequences assigned
388 (6.1%) exact matches, in which:
322 unique CDR3
6 unique J



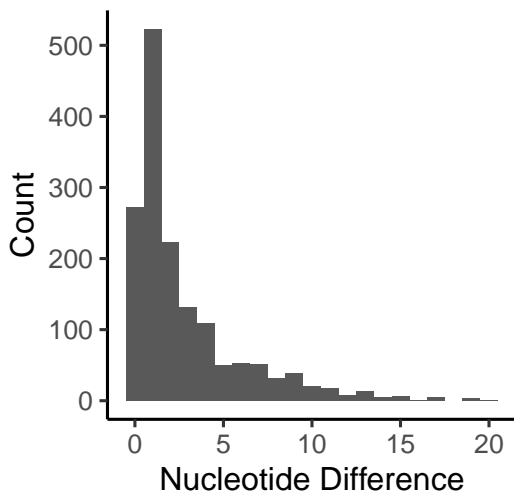
IGHV4S19*01_A166T_T1

2244 sequences assigned
195 (8.7%) exact matches, in which:
184 unique CDR3
6 unique J



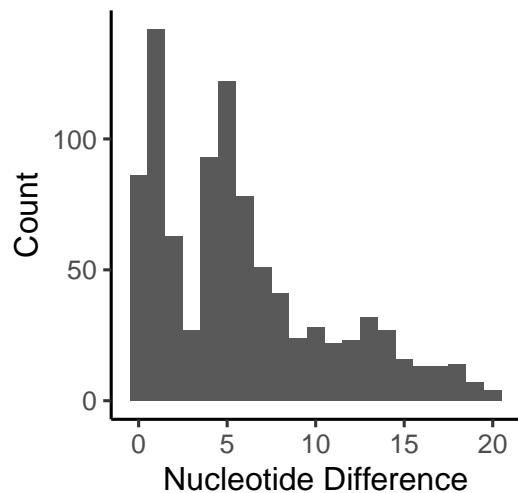
IGHV5S1*01_G51A_A105

1569 sequences assigned
272 (17.3%) exact matches, in which:
216 unique CDR3
6 unique J



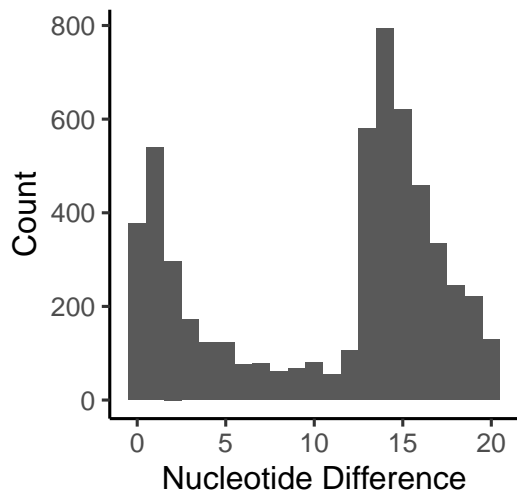
IGHV3-7*01_A196G_G20

962 sequences assigned
86 (8.9%) exact matches, in which:
71 unique CDR3
5 unique J



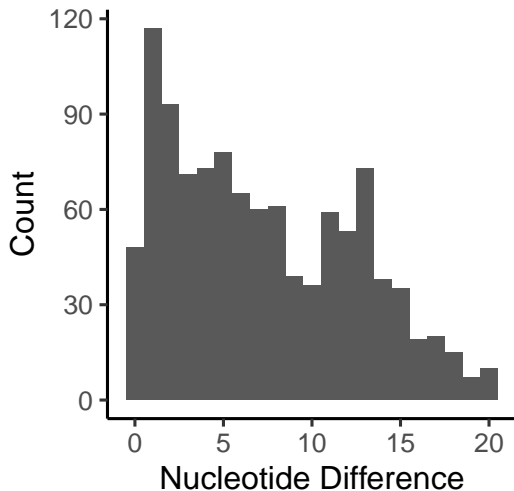
IGHV4S7*01_G110C_C1

6509 sequences assigned
378 (5.8%) exact matches, in which:
360 unique CDR3
6 unique J



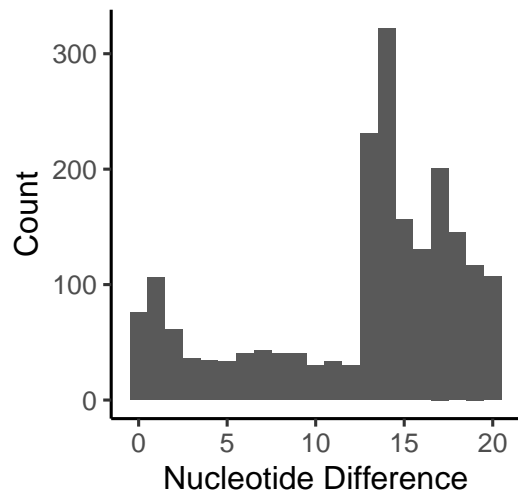
IGHV2-1*01_G6C_G270

1546 sequences assigned
48 (3.1%) exact matches, in which:
40 unique CDR3
5 unique J



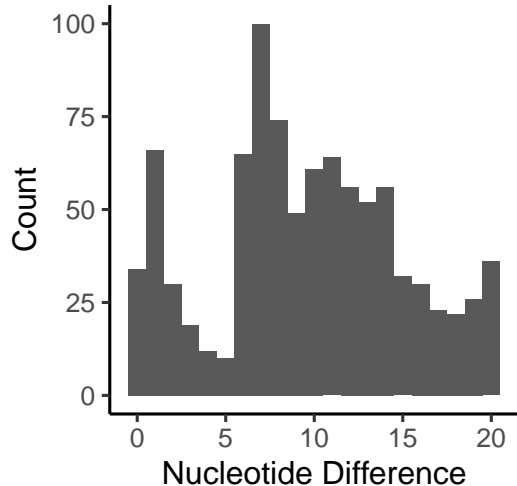
IGHV3-14*01_G110A_C1

2840 sequences assigned
76 (2.7%) exact matches, in which:
64 unique CDR3
6 unique J



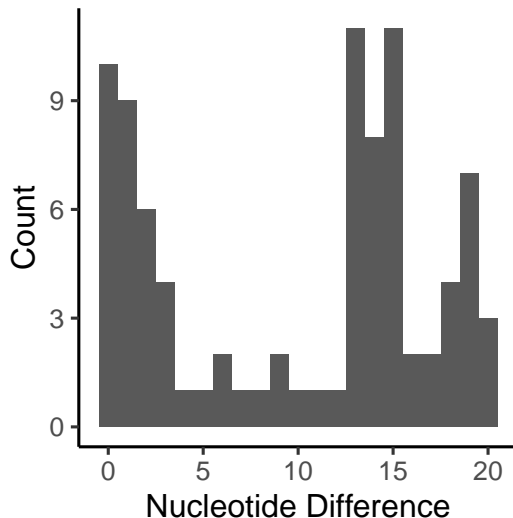
IGHV3-22*01_A39C_G48

1115 sequences assigned
34 (3%) exact matches, in which:
33 unique CDR3
4 unique J



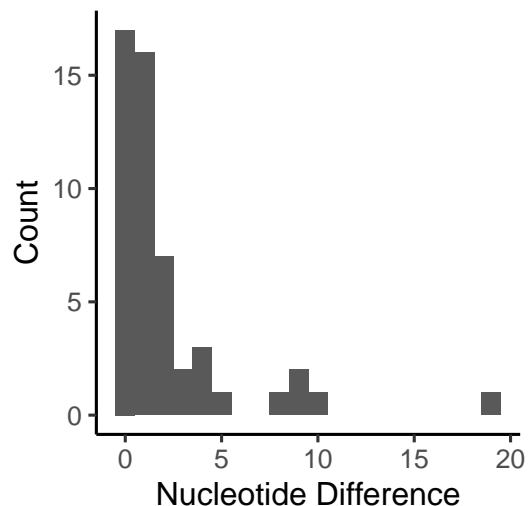
IGHV4-2*01_C4G_C90T_7

99 sequences assigned
10 (10.1%) exact matches, in which:
9 unique CDR3
4 unique J



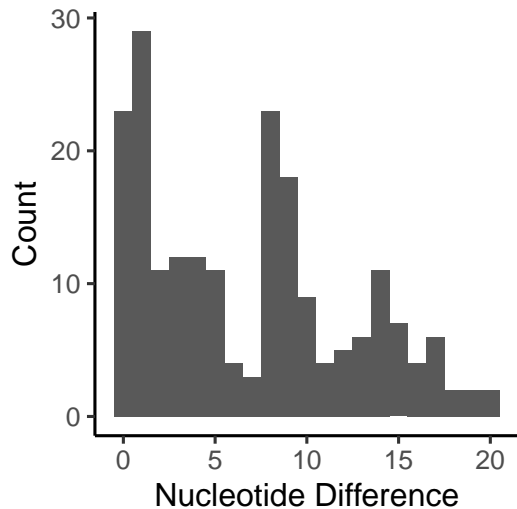
IGHV7-1*01_A318G

1081 sequences assigned
17 (1.6%) exact matches, in which:
17 unique CDR3
4 unique J



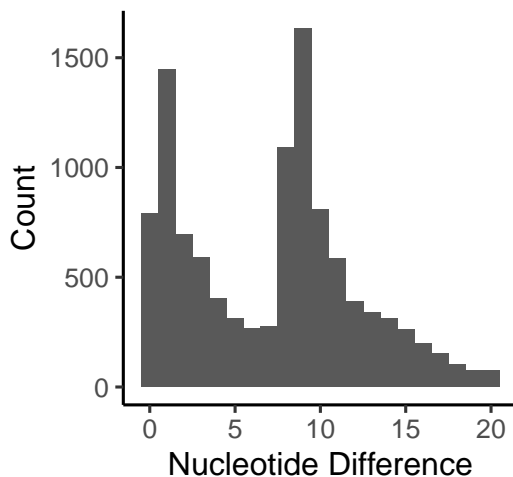
IGHV3-22*01_C10T_G510

243 sequences assigned
23 (9.5%) exact matches, in which:
21 unique CDR3
5 unique J



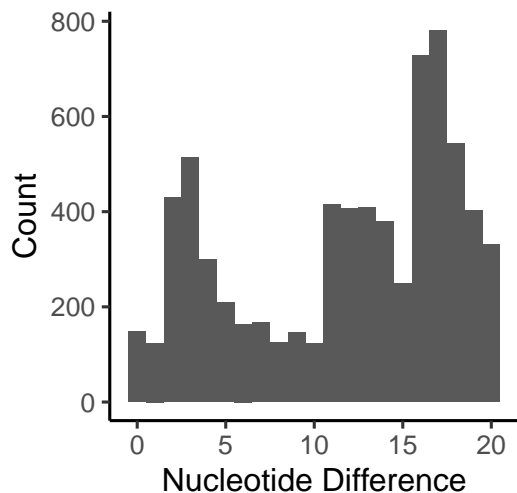
IGHV5-2*01_G51A_A59G_G166A_C167T_T171C_G172

11243 sequences assigned
790 (7%) exact matches, in which:
659 unique CDR3
6 unique J



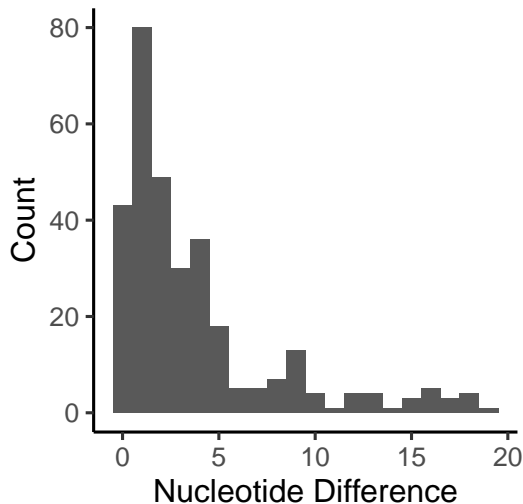
IGHV4-2*01_C4G_C173,

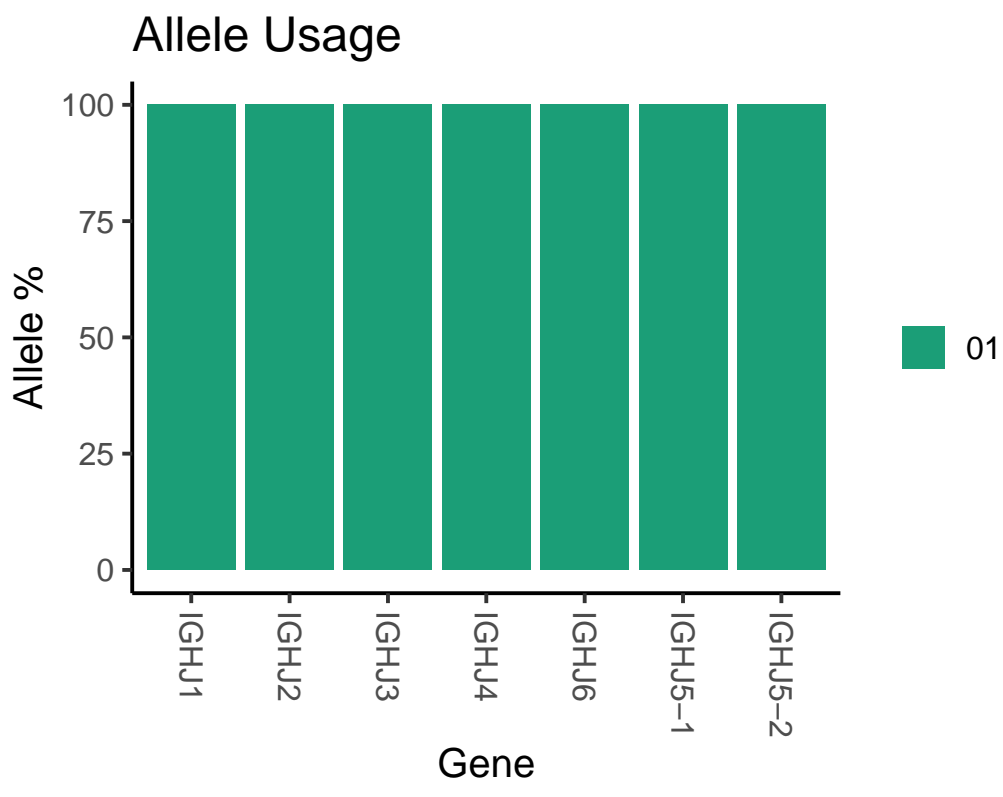
9931 sequences assigned
148 (1.5%) exact matches, in which:
141 unique CDR3
6 unique J



IGHV6-1*01_G227A

387 sequences assigned
43 (11.1%) exact matches, in which:
35 unique CDR3
5 unique J





Warning – no inferred sequences found.