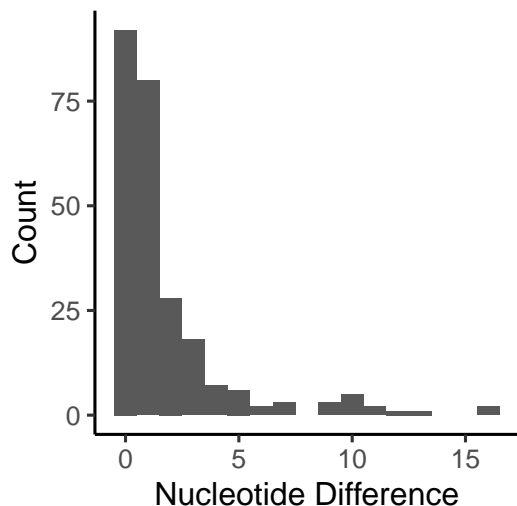


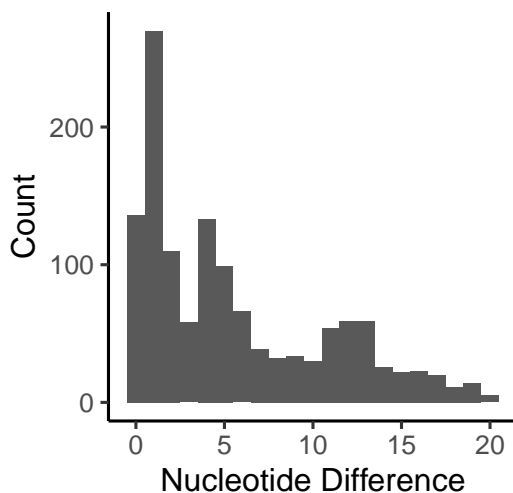
IGHV1S10*01_C26A_G16

252 sequences assigned
92 (36.5%) exact matches, in which:
86 unique CDR3
6 unique J



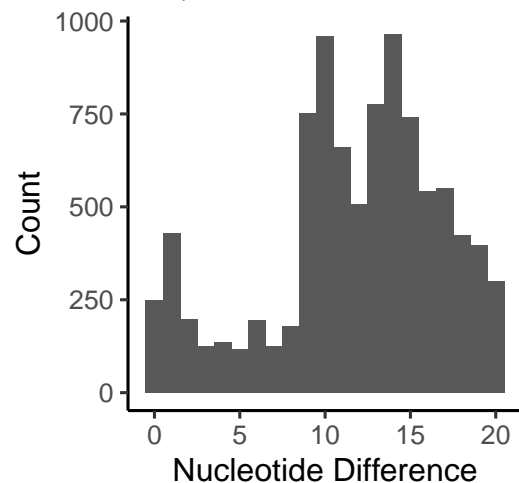
IGHV2S1*01_G6C_G36C

1313 sequences assigned
136 (10.4%) exact matches, in which:
113 unique CDR3
6 unique J



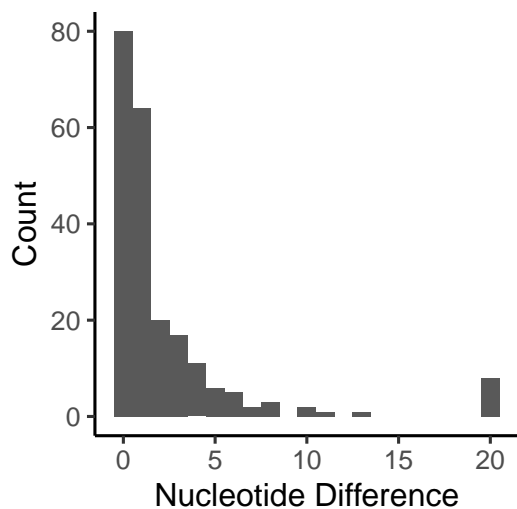
IGHV3S11*01_T51A_C7

12991 sequences assigned
250 (1.9%) exact matches, in which:
201 unique CDR3
6 unique J



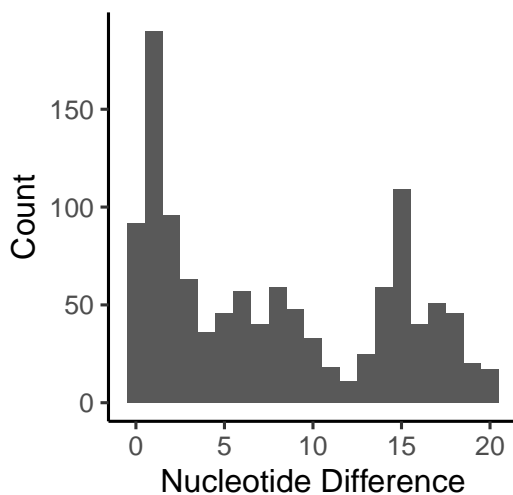
IGHV1S10*01_C93T_G16

731 sequences assigned
80 (10.9%) exact matches, in which:
72 unique CDR3
6 unique J



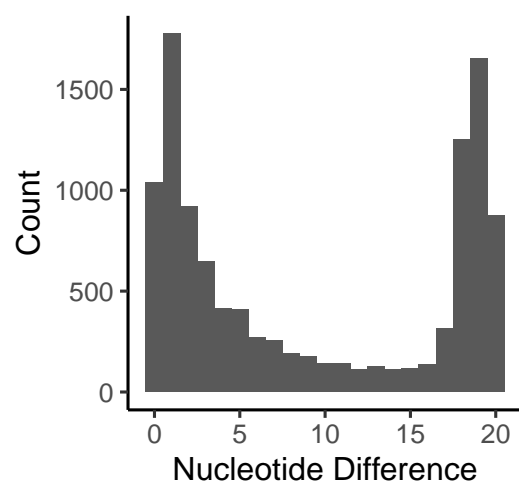
IGHV2S2*01_C6G_A36C

1212 sequences assigned
92 (7.6%) exact matches, in which:
82 unique CDR3
6 unique J



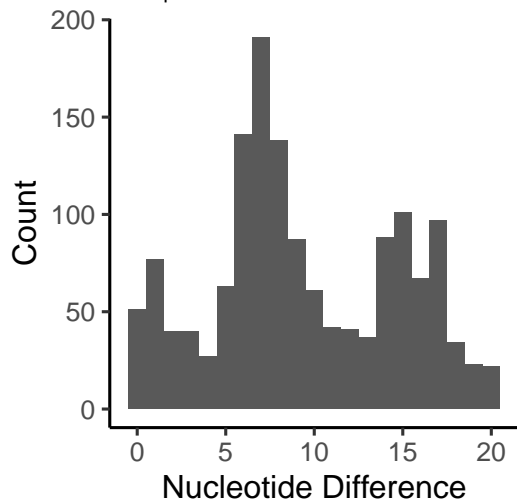
IGHV3S16*01_G24A_A1

14264 sequences assigned
1037 (7.3%) exact matches, in which:
880 unique CDR3
6 unique J



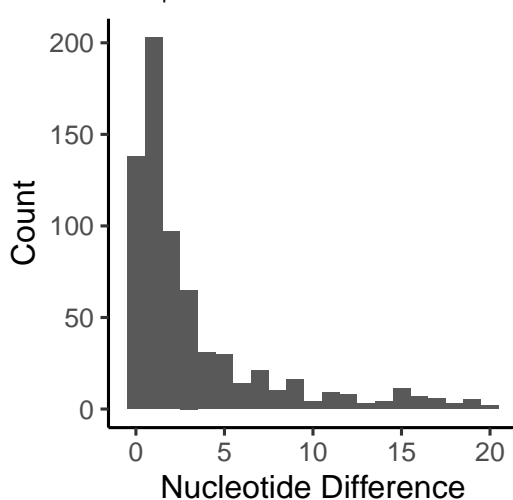
IGHV2S1*01_A156G_T16

1652 sequences assigned
51 (3.1%) exact matches, in which:
44 unique CDR3
5 unique J



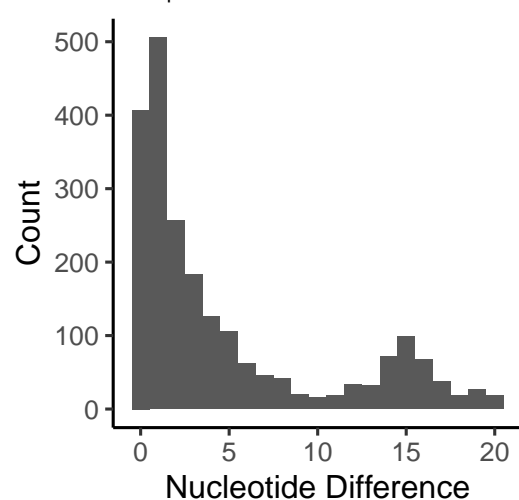
IGHV2S2*01_C6G_G115

720 sequences assigned
138 (19.2%) exact matches, in which:
114 unique CDR3
6 unique J



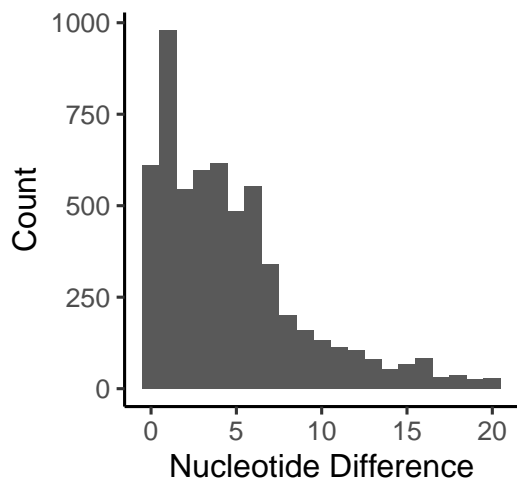
IGHV3S18*01_G3A_C27

2269 sequences assigned
407 (17.9%) exact matches, in which:
370 unique CDR3
6 unique J



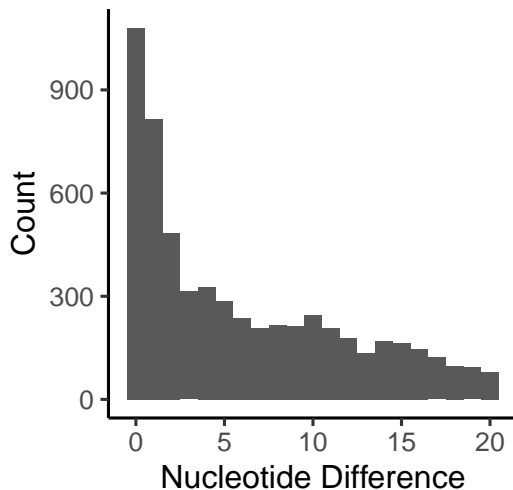
IGHV3S20*01_A165C_C

5955 sequences assigned
611 (10.3%) exact matches, in which:
524 unique CDR3
6 unique J



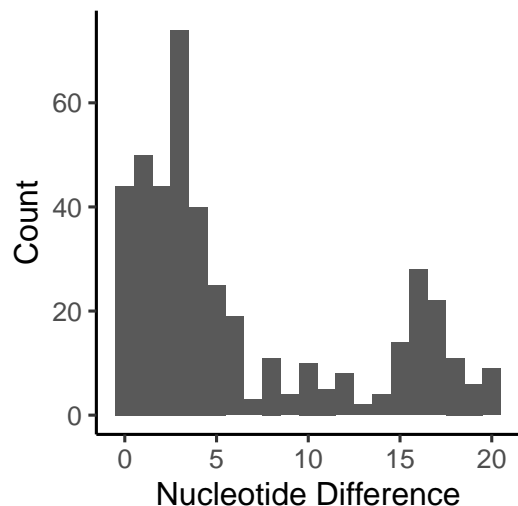
IGHV3S25*01_C114T_T1

6431 sequences assigned
1081 (16.8%) exact matches, in which:
1042 unique CDR3
6 unique J



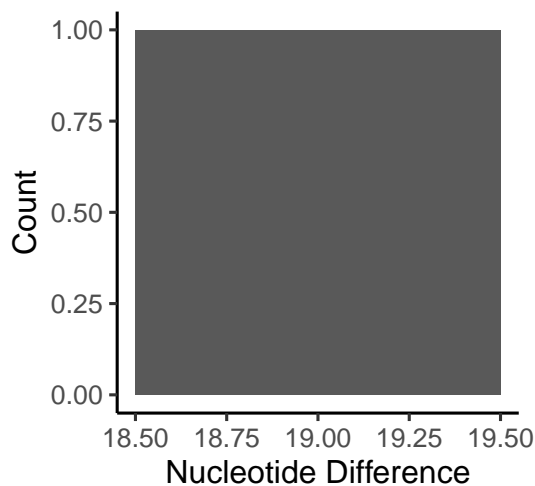
IGHV3S29*01_T34C_A165C_C

481 sequences assigned
44 (9.1%) exact matches, in which:
41 unique CDR3
6 unique J



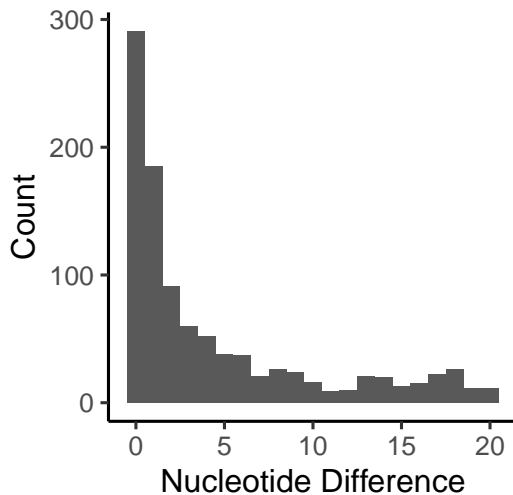
IGHV3S21*01

1 sequences assigned
No exact matches.



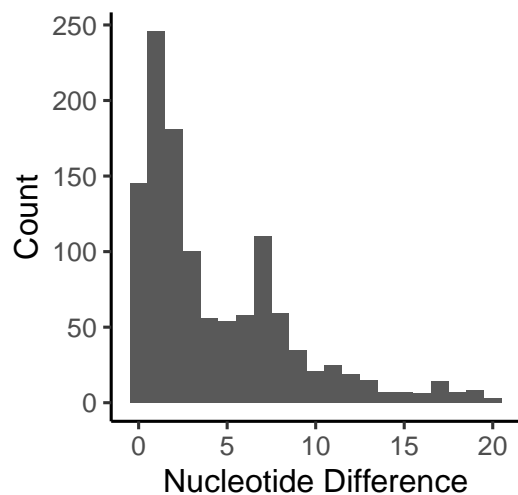
IGHV3S26*01_C3G_T114C_C

1214 sequences assigned
291 (24%) exact matches, in which:
262 unique CDR3
6 unique J



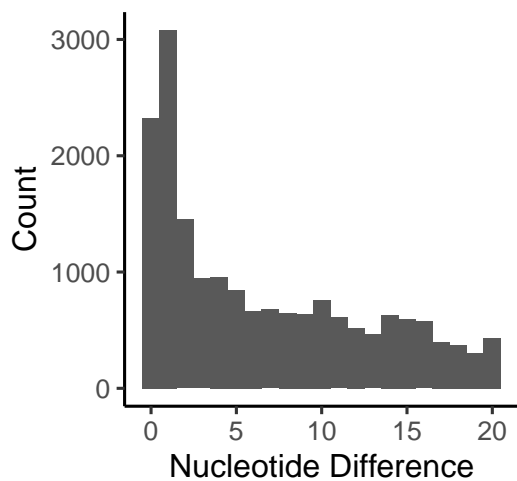
IGHV3S32*01_T128C_T114C_C

1194 sequences assigned
145 (12.1%) exact matches, in which:
126 unique CDR3
6 unique J



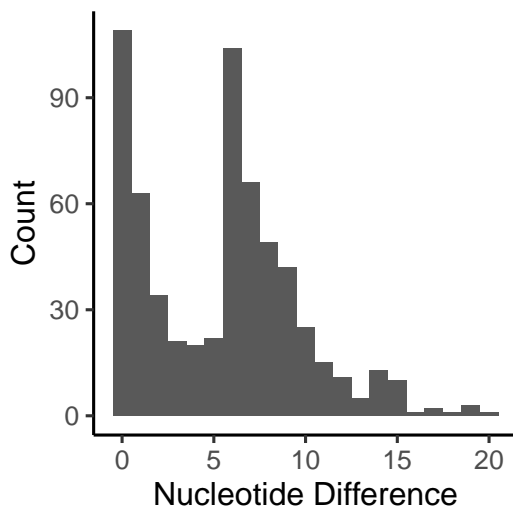
IGHV3S25*01_C114T_T1

19820 sequences assigned
2326 (11.7%) exact matches, in which:
2049 unique CDR3
6 unique J



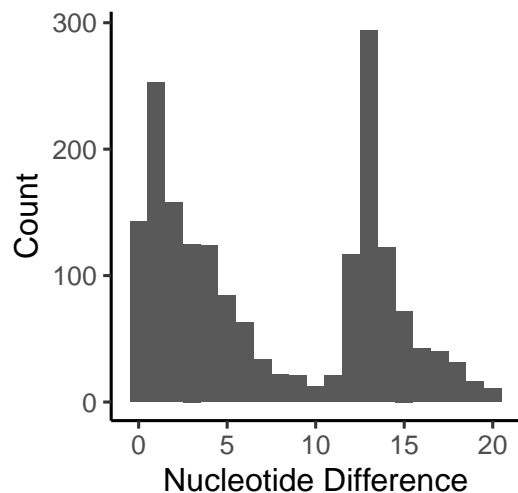
IGHV3S26*01_C54T_C214C_C

622 sequences assigned
109 (17.5%) exact matches, in which:
103 unique CDR3
6 unique J



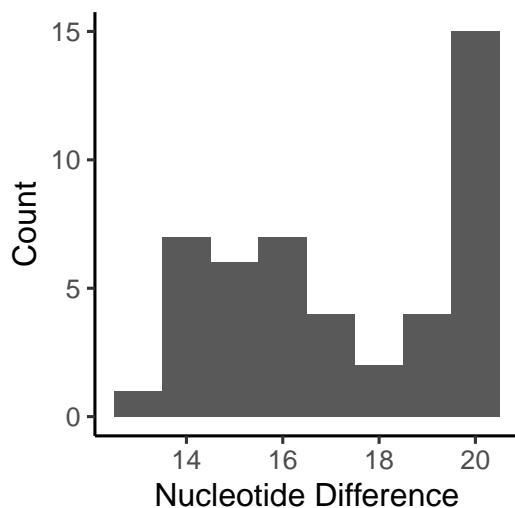
IGHV3S32*01_T130C_T114C_C

1895 sequences assigned
143 (7.5%) exact matches, in which:
118 unique CDR3
5 unique J



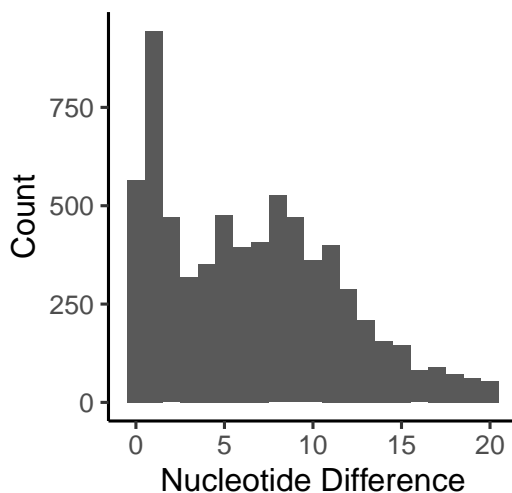
IGHV3S42*01

339 sequences assigned
No exact matches.



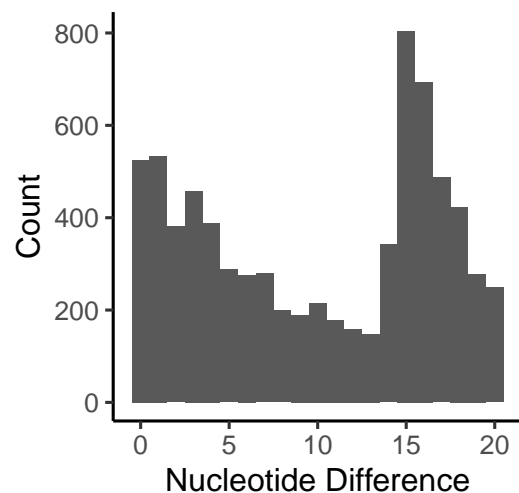
IGHV3S45*01_G26C_G1

7300 sequences assigned
565 (7.7%) exact matches, in which:
492 unique CDR3
6 unique J



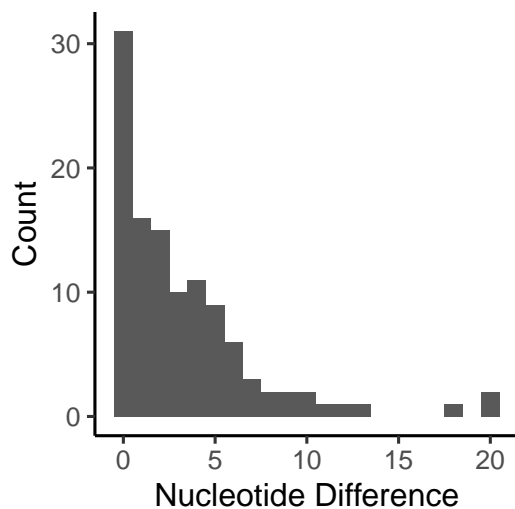
IGHV4S11*01_T90C_C13

9670 sequences assigned
525 (5.4%) exact matches, in which:
487 unique CDR3
6 unique J



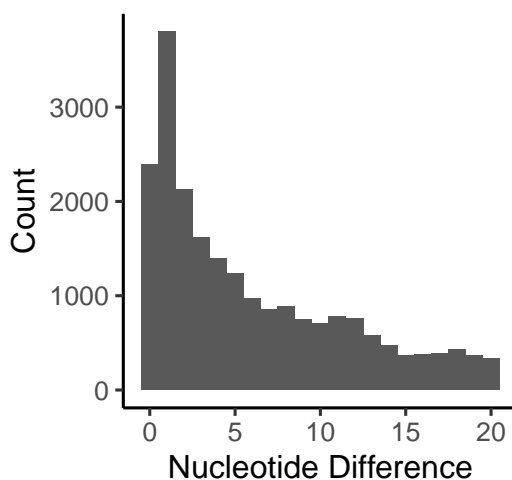
IGHV3S43*01_A7C_A15G

290 sequences assigned
31 (10.7%) exact matches, in which:
31 unique CDR3
6 unique J



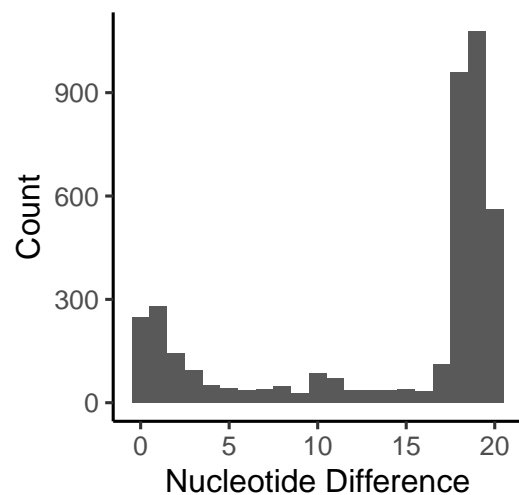
IGHV3S5*01_G160A_G'

22932 sequences assigned
2394 (10.4%) exact matches, in which:
2064 unique CDR3
6 unique J



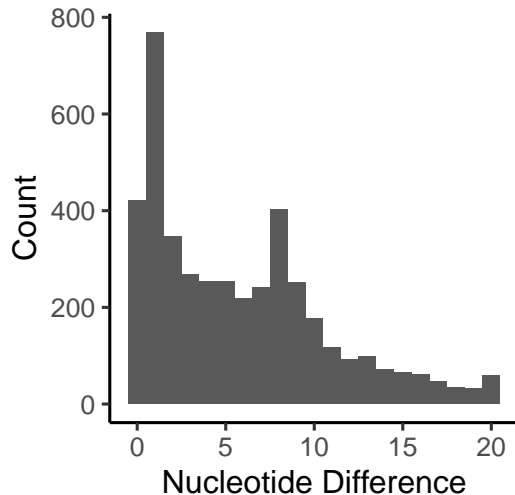
IGHV4S12*01_C291A

5890 sequences assigned
249 (4.2%) exact matches, in which:
224 unique CDR3
6 unique J



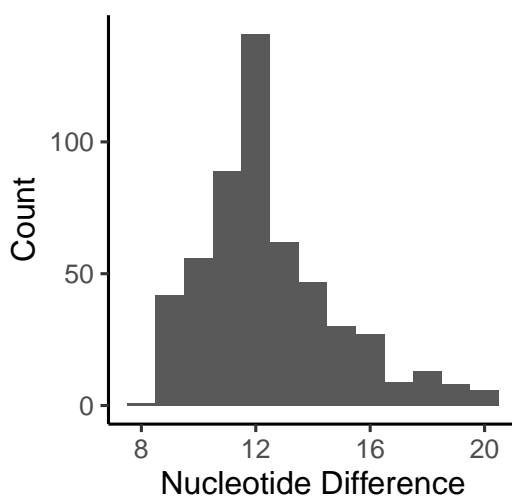
IGHV3S45*01_C262G

4854 sequences assigned
421 (8.7%) exact matches, in which:
355 unique CDR3
6 unique J



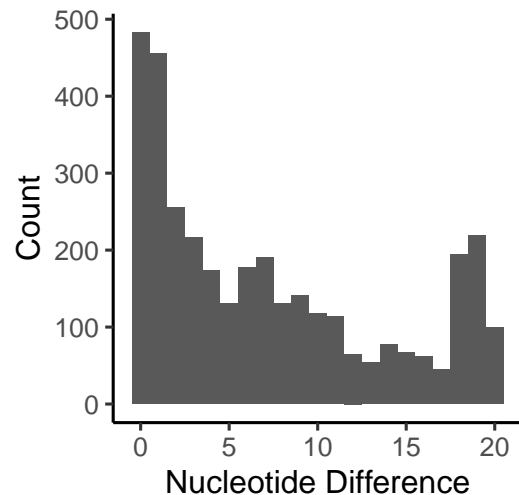
IGHV3S7*01

570 sequences assigned
No exact matches.



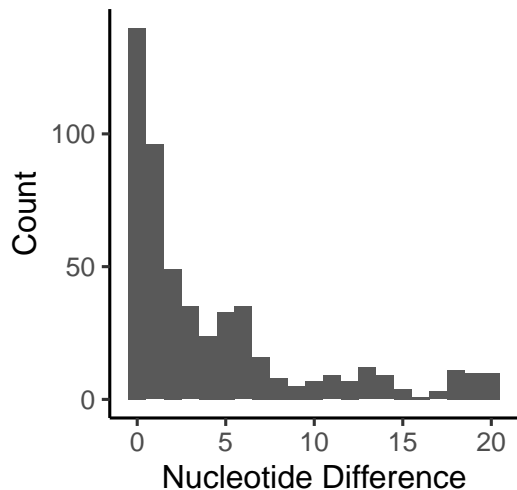
IGHV4S14*01_T90C_A91

3919 sequences assigned
483 (12.3%) exact matches, in which:
459 unique CDR3
6 unique J



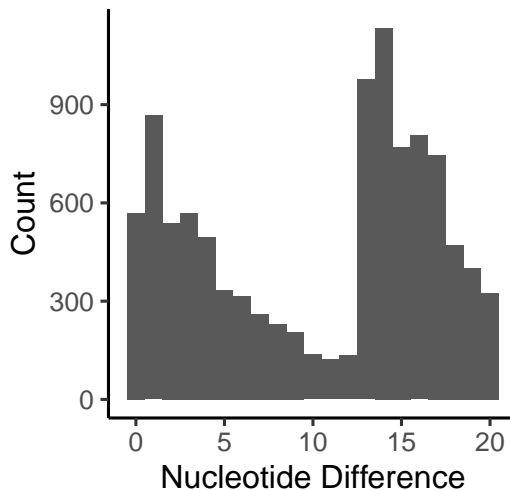
IGHV4S14*01_T90C_A91

543 sequences assigned
140 (25.8%) exact matches, in which:
133 unique CDR3
6 unique J



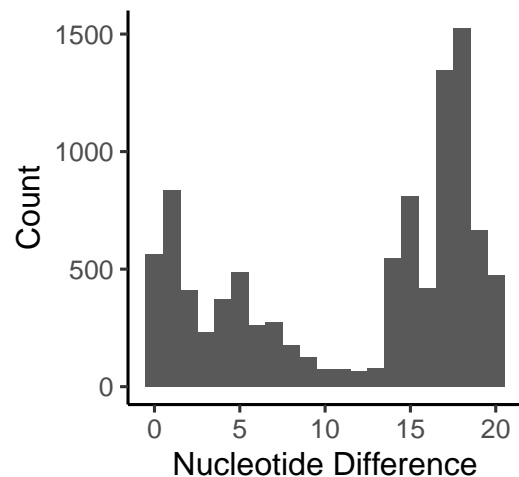
IGHV4S18*01_C34G_T1'

12175 sequences assigned
570 (4.7%) exact matches, in which:
533 unique CDR3
6 unique J



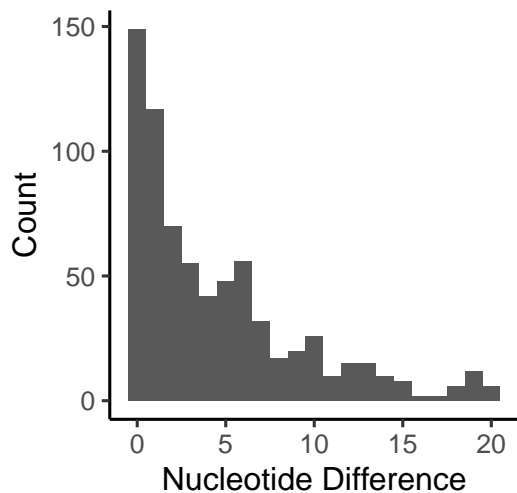
IGHV5S1*01_G51A_A11

11417 sequences assigned
562 (4.9%) exact matches, in which:
436 unique CDR3
6 unique J



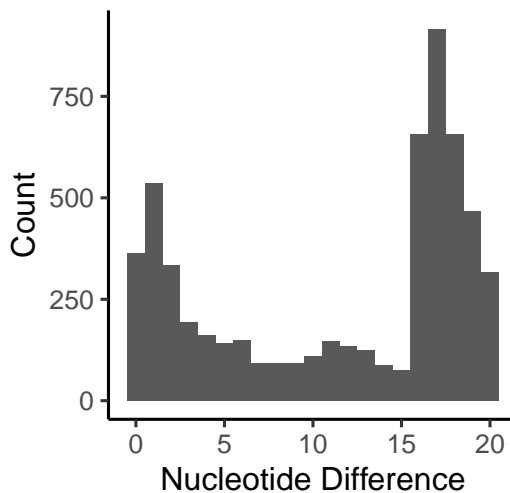
IGHV4S14*01_T90C_A91

747 sequences assigned
149 (19.9%) exact matches, in which:
146 unique CDR3
6 unique J



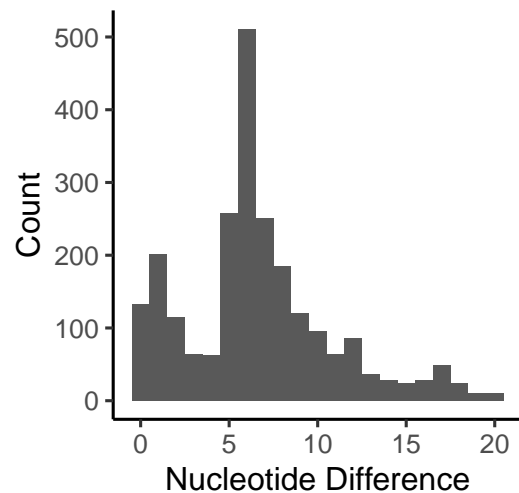
IGHV4S19*01_C66A

9161 sequences assigned
364 (4%) exact matches, in which:
342 unique CDR3
6 unique J



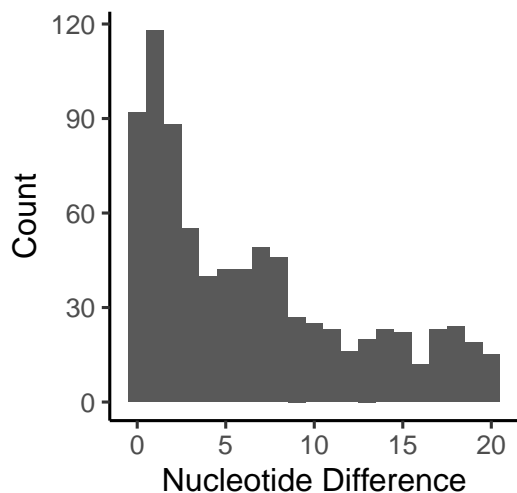
IGHV7S1*01_T84A_C127

2502 sequences assigned
132 (5.3%) exact matches, in which:
120 unique CDR3
6 unique J



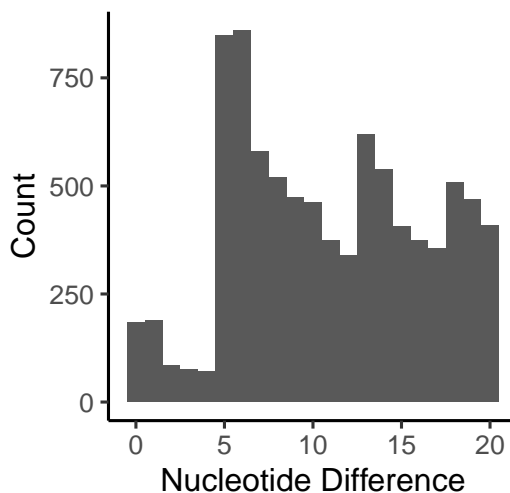
IGHV4S15*01_C303G

1126 sequences assigned
92 (8.2%) exact matches, in which:
85 unique CDR3
6 unique J



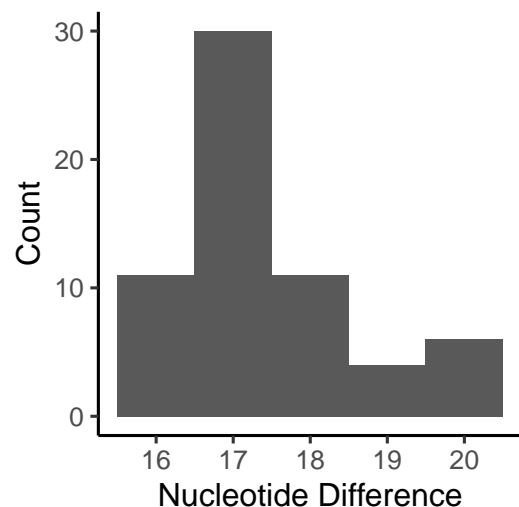
IGHV4S6*01_A70G

10901 sequences assigned
184 (1.7%) exact matches, in which:
175 unique CDR3
6 unique J



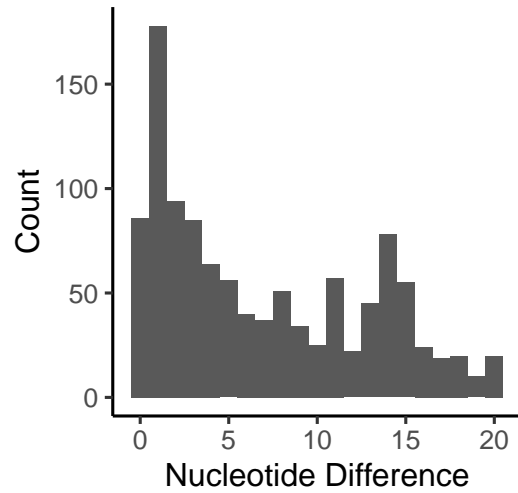
IGHV7S3*01

88 sequences assigned
No exact matches.



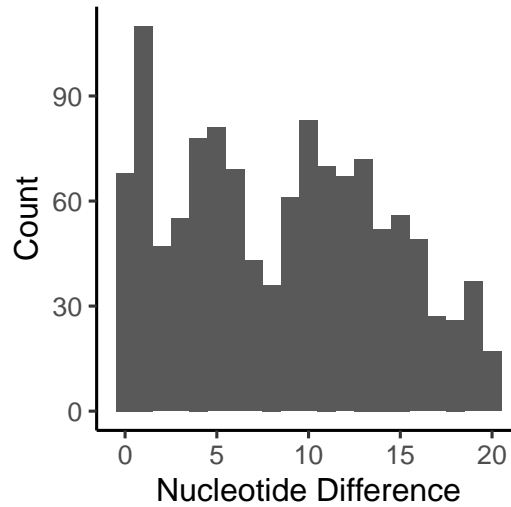
IGHV2-1*01_G6C_G270

1297 sequences assigned
86 (6.6%) exact matches, in which:
78 unique CDR3
6 unique J



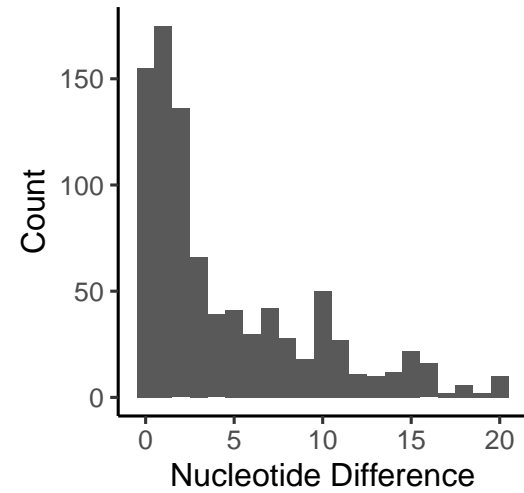
IGHV3-14*01_G110A_C1

1303 sequences assigned
68 (5.2%) exact matches, in which:
55 unique CDR3
6 unique J



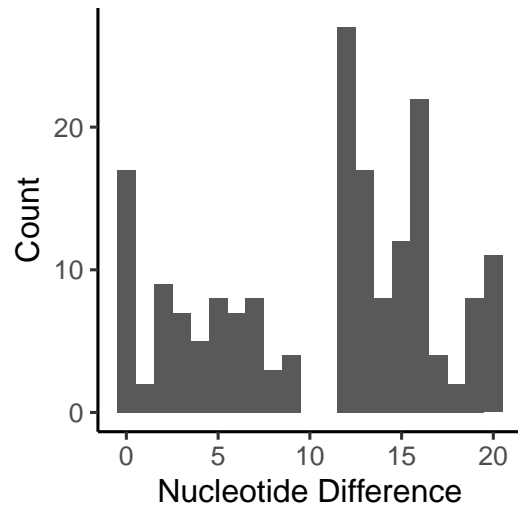
IGHV6-1*01_G233C

934 sequences assigned
155 (16.6%) exact matches, in which:
132 unique CDR3
6 unique J



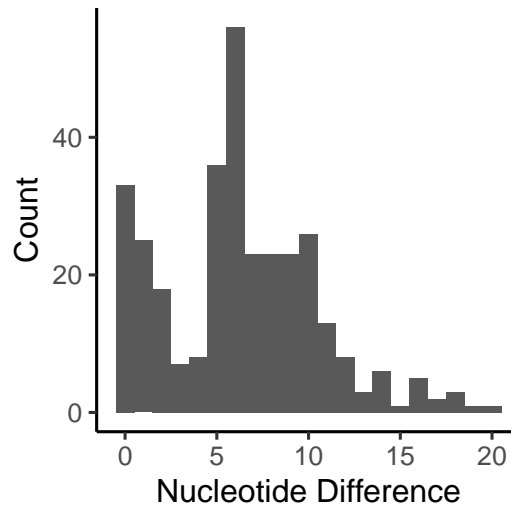
IGHV3-5*01_T34C_C62T

286 sequences assigned
17 (5.9%) exact matches, in which:
17 unique CDR3
6 unique J



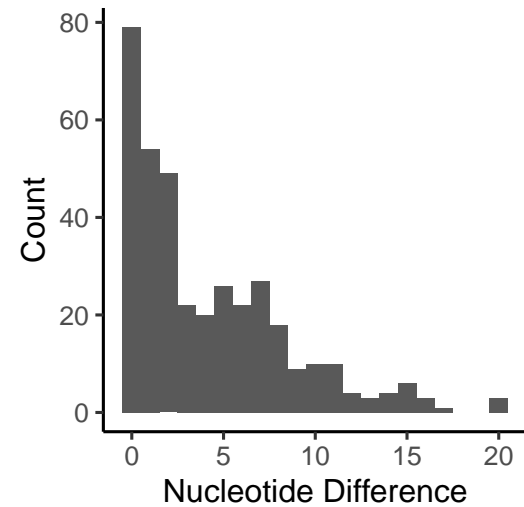
IGHV3-20*01_A169G_G1

2028 sequences assigned
33 (1.6%) exact matches, in which:
32 unique CDR3
5 unique J



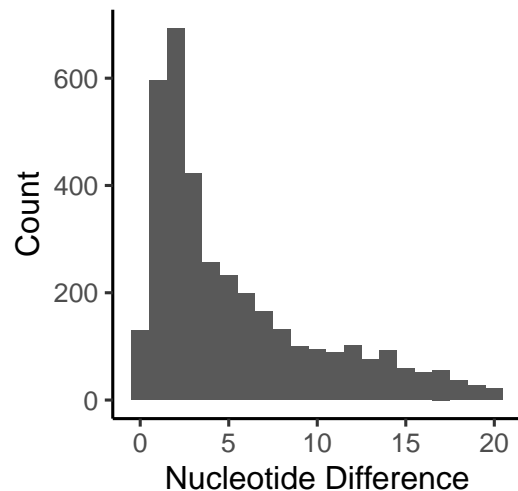
IGHV6-1*01_G233C_G28

378 sequences assigned
79 (20.9%) exact matches, in which:
74 unique CDR3
6 unique J



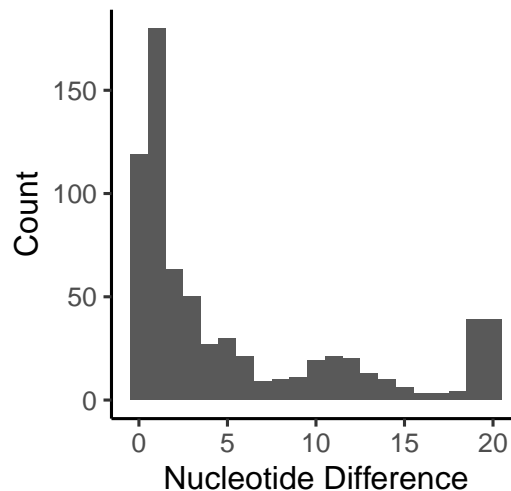
IGHV3-9*01_C262T

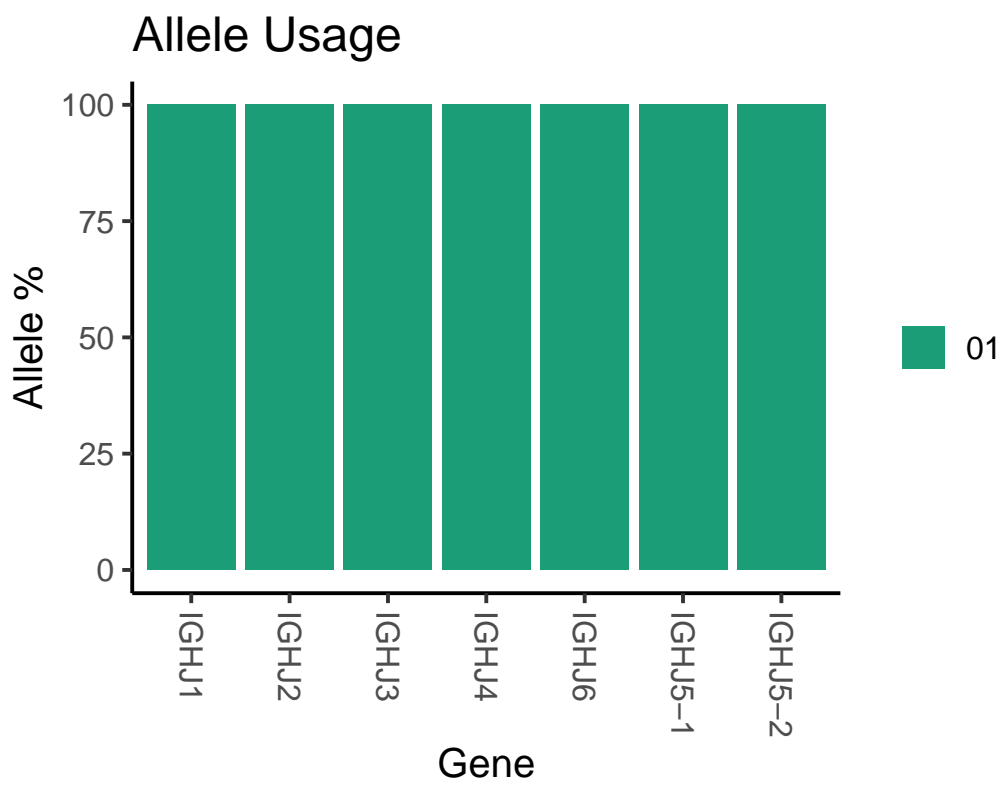
3767 sequences assigned
130 (3.5%) exact matches, in which:
118 unique CDR3
6 unique J



IGHV3-22*01_A39C_G48C_T66C_A70G_G74C_C89G_T

803 sequences assigned
119 (14.8%) exact matches, in which:
100 unique CDR3
6 unique J





Warning – no inferred sequences found.