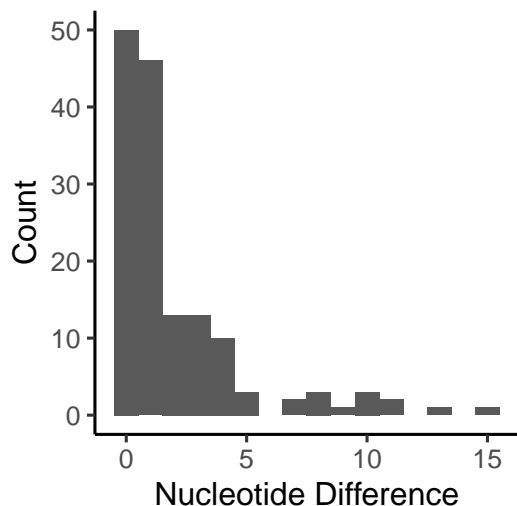


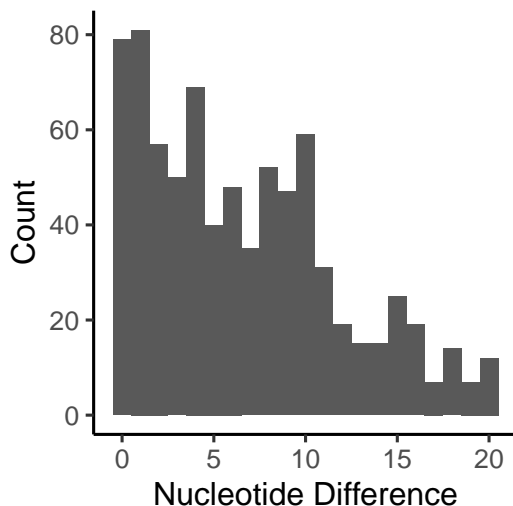
IGHV1S10*01_C26A_G16

148 sequences assigned
50 (33.8%) exact matches, in which:
47 unique CDR3
5 unique J



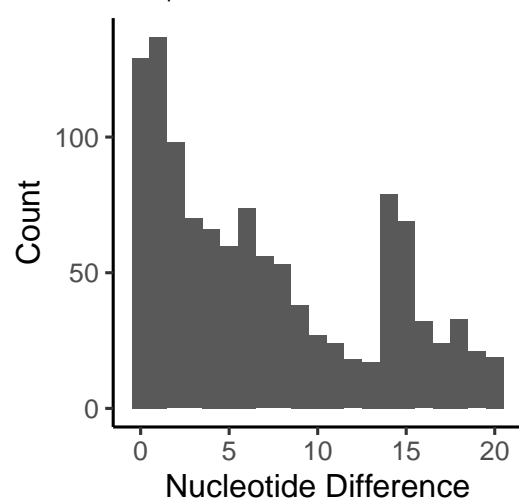
IGHV2S1*01_G6C_G36C_

847 sequences assigned
79 (9.3%) exact matches, in which:
78 unique CDR3
6 unique J



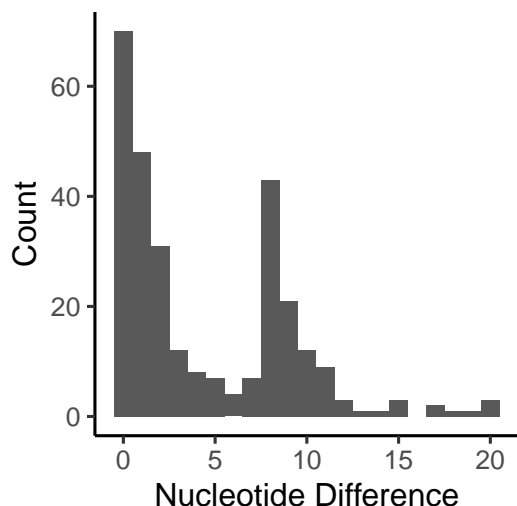
IGHV2S2*01_C6G_G115

1317 sequences assigned
129 (9.8%) exact matches, in which:
124 unique CDR3
6 unique J



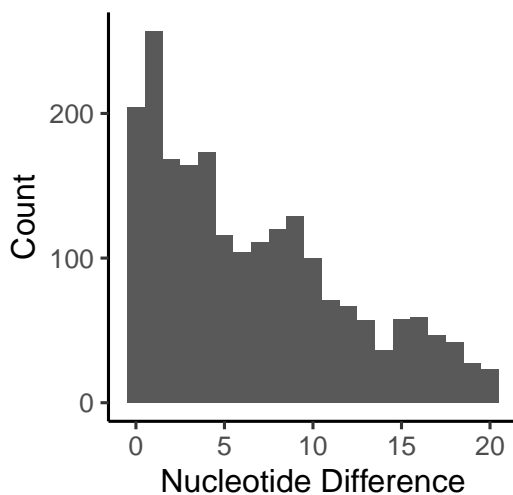
IGHV1S10*01_G167T

295 sequences assigned
70 (23.7%) exact matches, in which:
67 unique CDR3
5 unique J



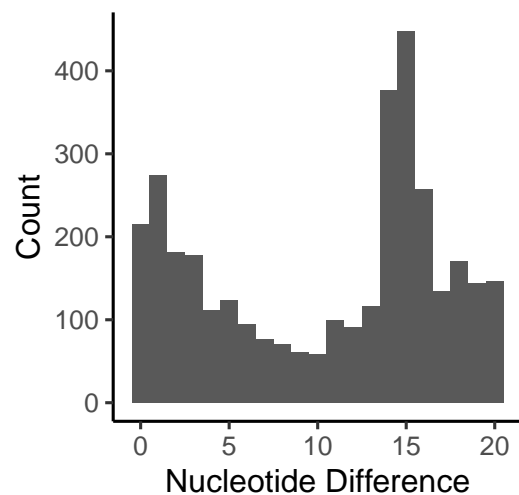
IGHV2S1*01_G6C_G36C

2351 sequences assigned
204 (8.7%) exact matches, in which:
169 unique CDR3
6 unique J



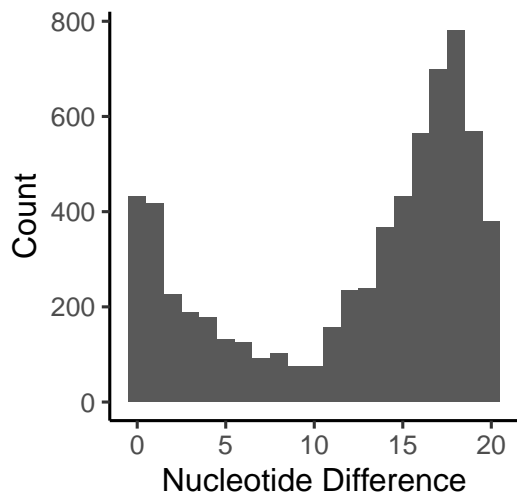
IGHV3S11*01_T51A_C78

4433 sequences assigned
215 (4.8%) exact matches, in which:
191 unique CDR3
6 unique J



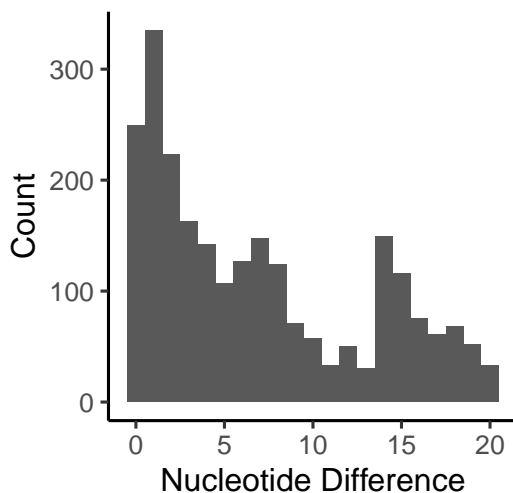
IGHV1S9*01_G18A_G49

7611 sequences assigned
431 (5.7%) exact matches, in which:
385 unique CDR3
6 unique J



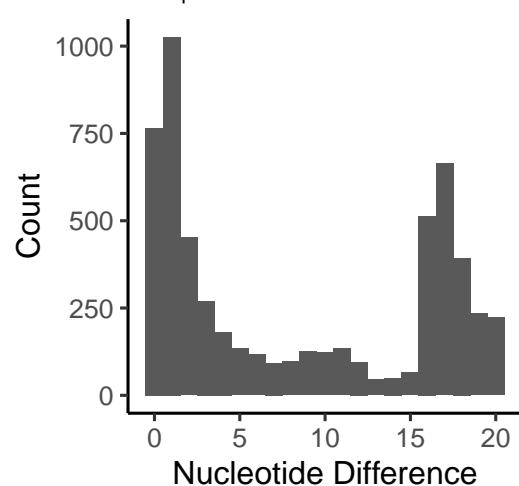
IGHV2S2*01_C6G_G115

2833 sequences assigned
249 (8.8%) exact matches, in which:
221 unique CDR3
6 unique J



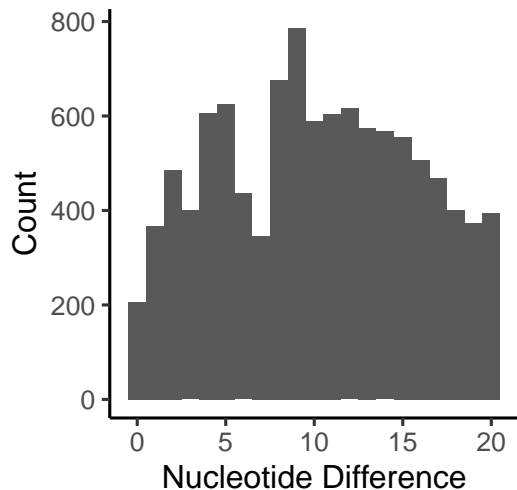
IGHV3S16*01_A116G_C

7229 sequences assigned
766 (10.6%) exact matches, in which:
650 unique CDR3
6 unique J



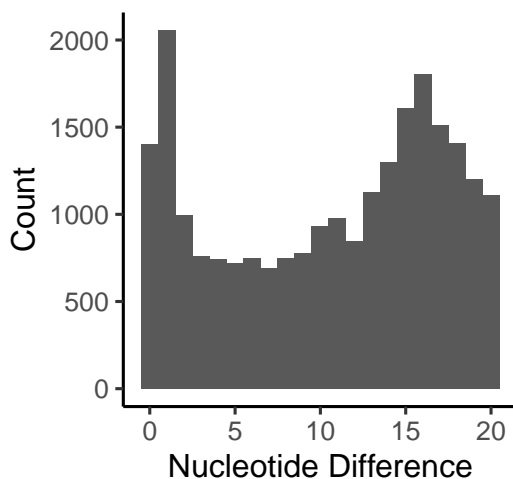
IGHV3S18*01_T69C_T7E

16888 sequences assigned
207 (1.2%) exact matches, in which:
168 unique CDR3
6 unique J



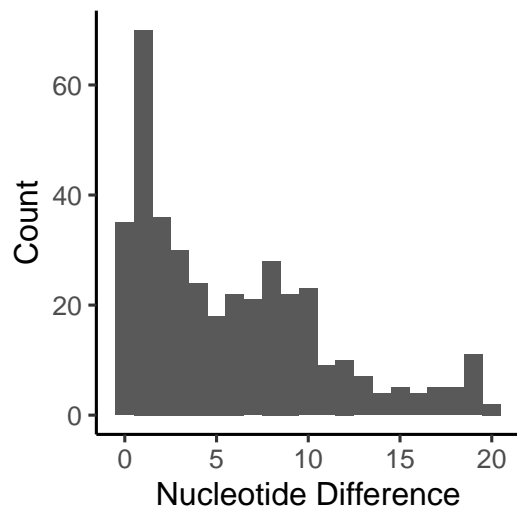
IGHV3S25*01_T78C_G1

35698 sequences assigned
1405 (3.9%) exact matches, in which:
1203 unique CDR3
6 unique J



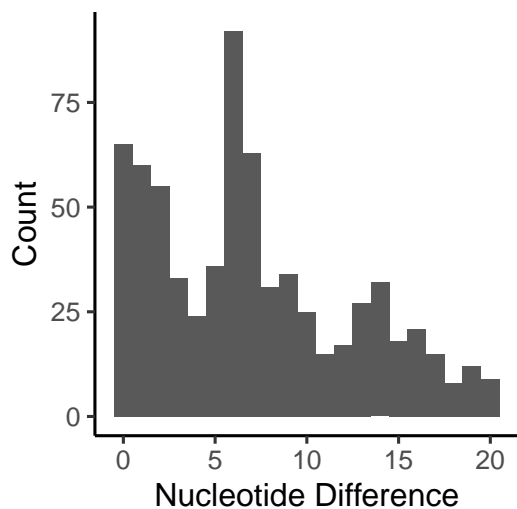
IGHV3S30*01_A307T

398 sequences assigned
35 (8.8%) exact matches, in which:
32 unique CDR3
6 unique J



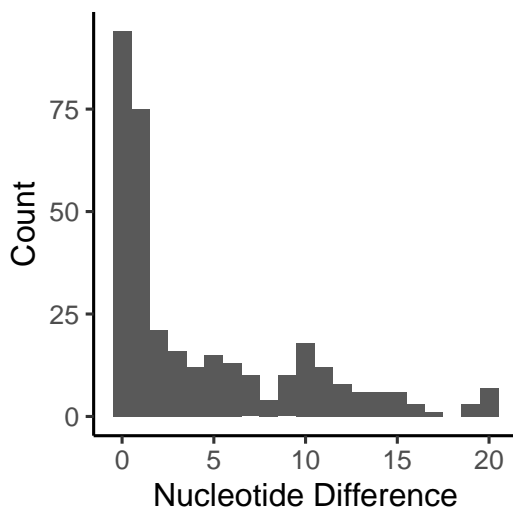
IGHV3S20*01_C34T_G26

798 sequences assigned
65 (8.1%) exact matches, in which:
60 unique CDR3
6 unique J



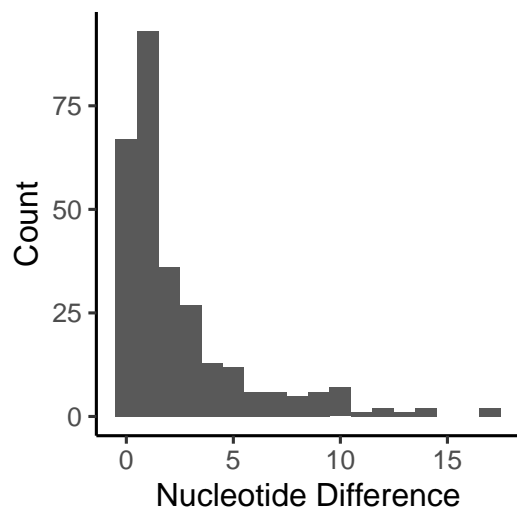
IGHV3S26*01_C3A_C54T

493 sequences assigned
94 (19.1%) exact matches, in which:
90 unique CDR3
6 unique J



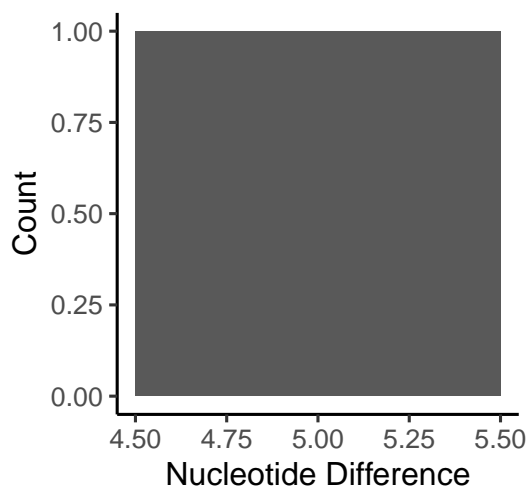
IGHV3S30*01_C74A_A30

287 sequences assigned
67 (23.3%) exact matches, in which:
55 unique CDR3
5 unique J



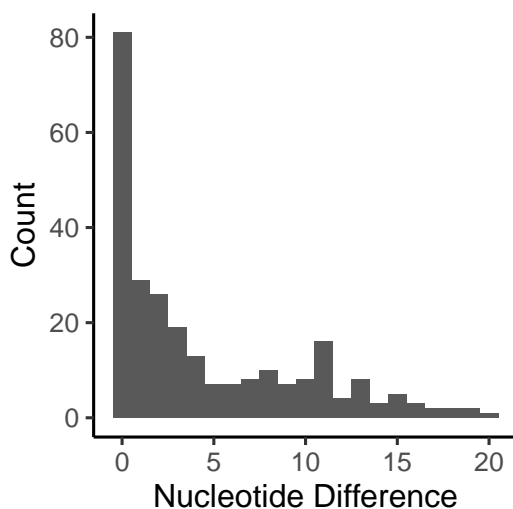
IGHV3S21*01

1 sequences assigned
No exact matches.



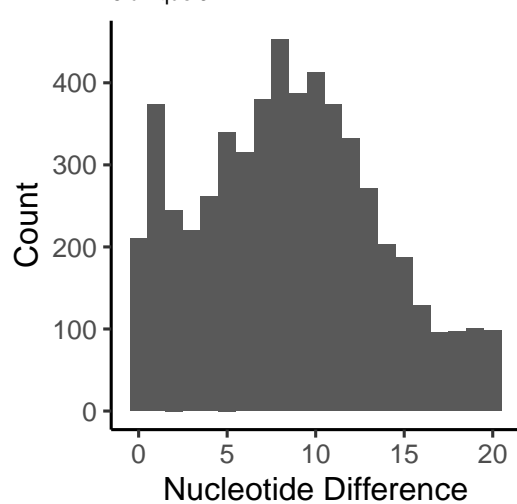
IGHV3S26*01_C3G_T114

1054 sequences assigned
81 (7.7%) exact matches, in which:
73 unique CDR3
6 unique J



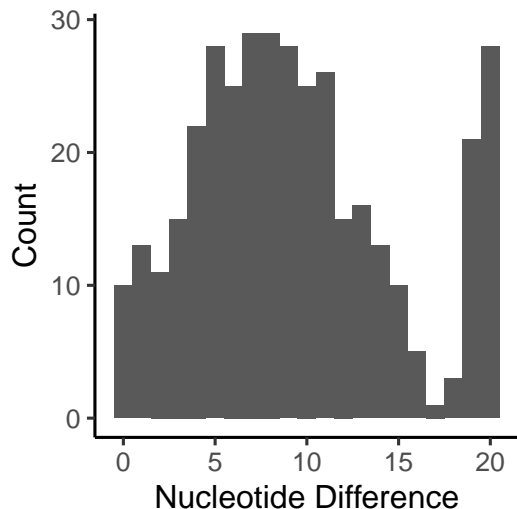
IGHV3S40*01_A27C_C33

5787 sequences assigned
210 (3.6%) exact matches, in which:
175 unique CDR3
6 unique J



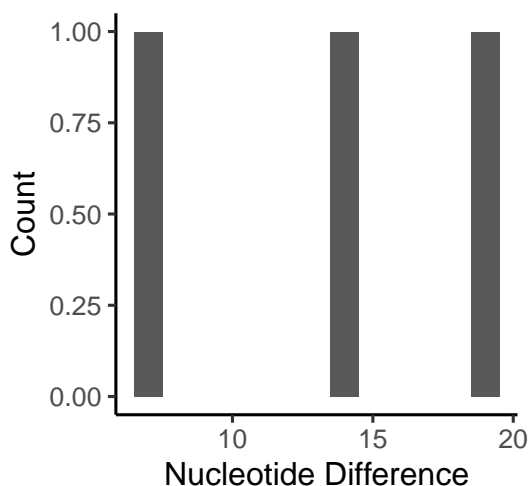
IGHV3S43*01_A7C_A15G

495 sequences assigned
10 (2%) exact matches, in which:
10 unique CDR3
4 unique J



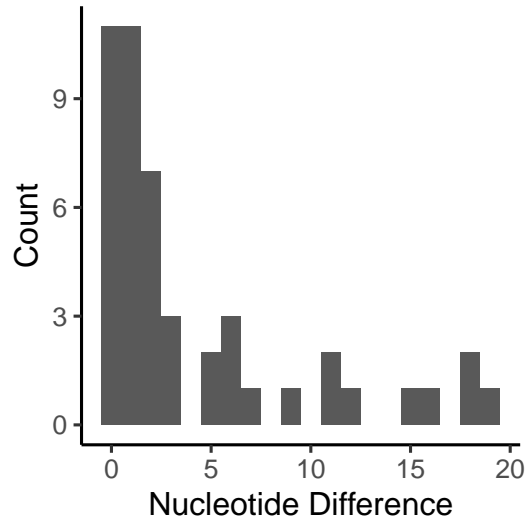
IGHV3S46*01

5 sequences assigned
No exact matches.



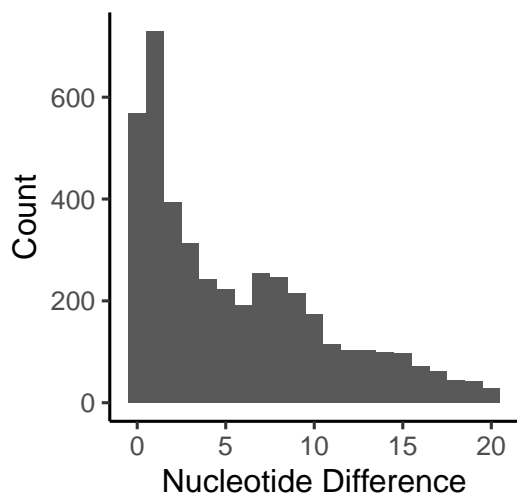
IGHV4S10*01_C90T_G10G

56 sequences assigned
11 (19.6%) exact matches, in which:
10 unique CDR3
4 unique J



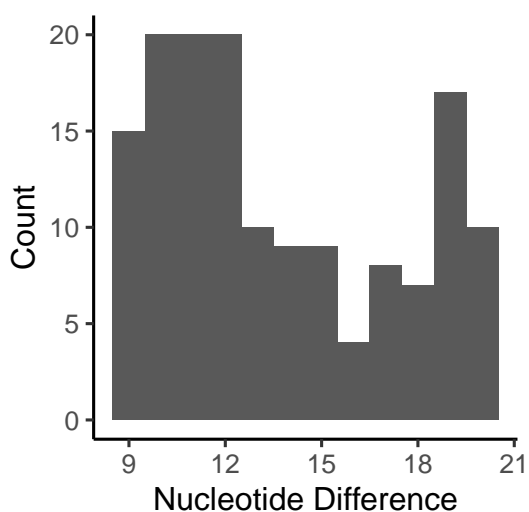
IGHV3S45*01_G26C_G1

4432 sequences assigned
568 (12.8%) exact matches, in which:
476 unique CDR3
6 unique J



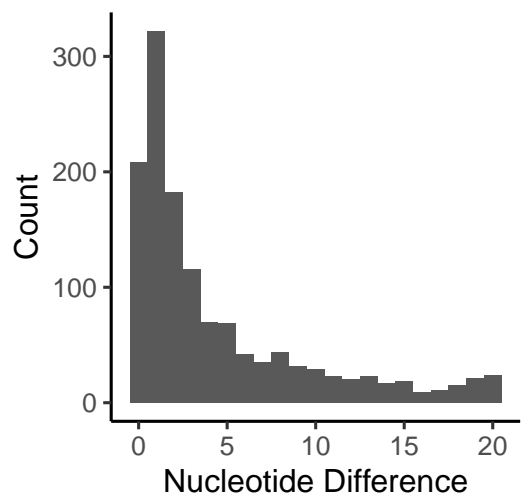
IGHV3S7*01

475 sequences assigned
No exact matches.



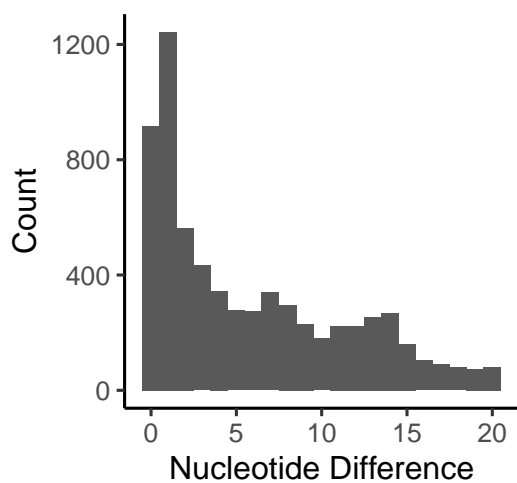
IGHV4S12*01_A199T_A2

1691 sequences assigned
208 (12.3%) exact matches, in which:
200 unique CDR3
6 unique J



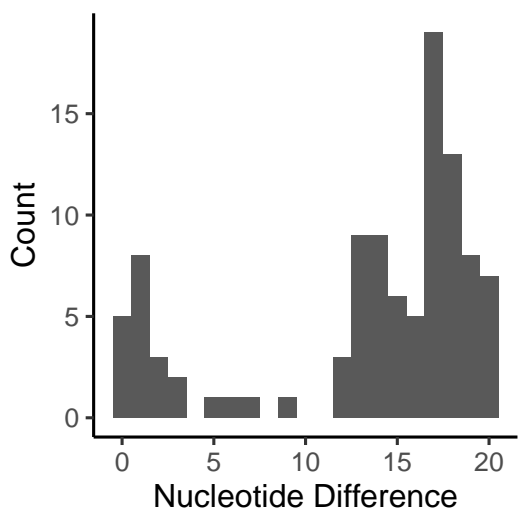
IGHV3S45*01_G26C_G1

7132 sequences assigned
916 (12.8%) exact matches, in which:
775 unique CDR3
6 unique J



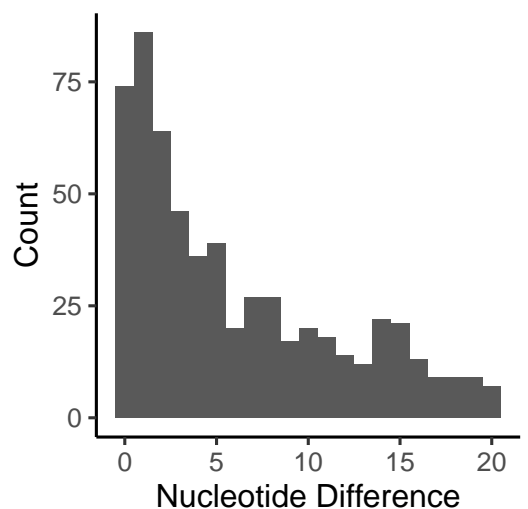
IGHV4S10*01_C90T_G10

163 sequences assigned
5 (3.1%) exact matches, in which:
5 unique CDR3
3 unique J



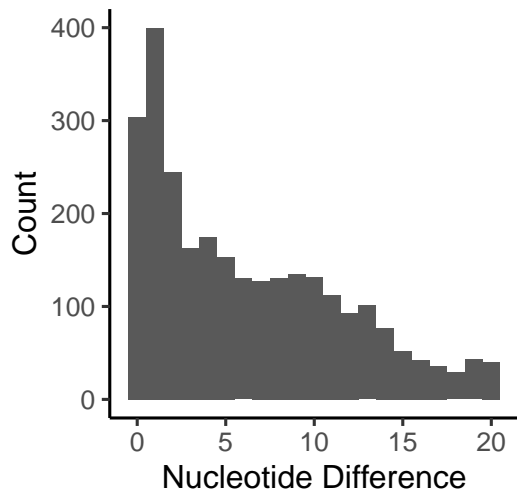
IGHV4S12*01_C291A

656 sequences assigned
74 (11.3%) exact matches, in which:
73 unique CDR3
6 unique J



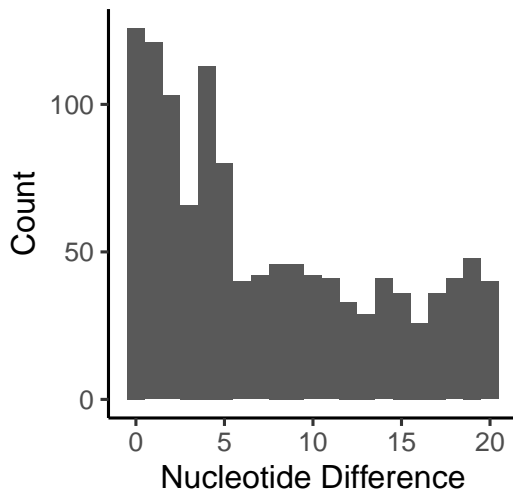
IGHV4S12*01_G34C_C9

3009 sequences assigned
304 (10.1%) exact matches, in which:
298 unique CDR3
6 unique J



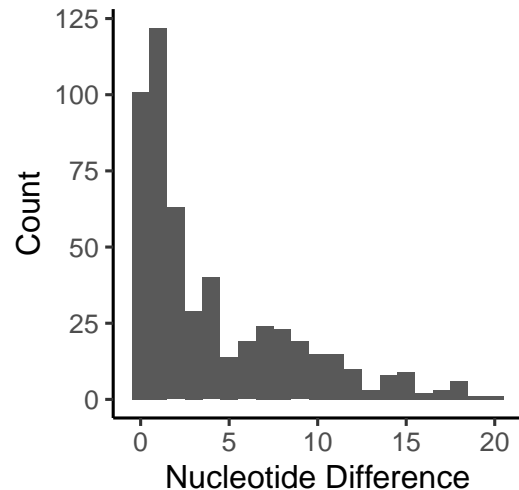
IGHV4S18*01_C34G_G4

1584 sequences assigned
126 (8%) exact matches, in which:
117 unique CDR3
6 unique J



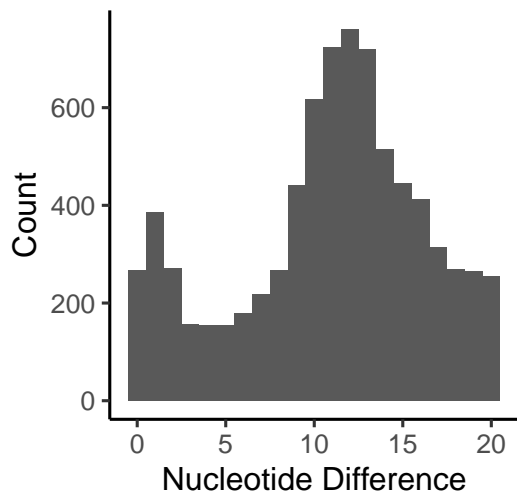
IGHV5S1*01_G51A_A84

531 sequences assigned
101 (19%) exact matches, in which:
77 unique CDR3
5 unique J



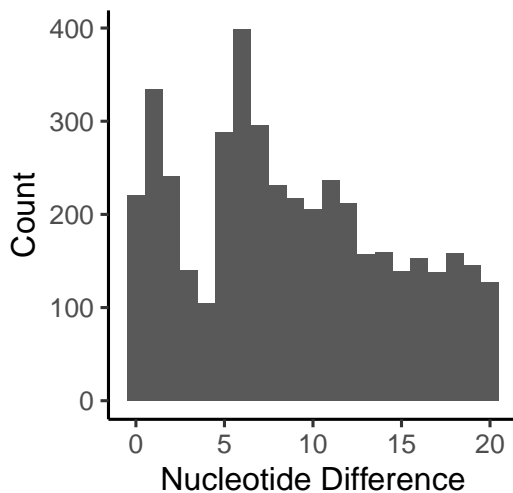
IGHV4S14*01_T90C_A16

10231 sequences assigned
267 (2.6%) exact matches, in which:
254 unique CDR3
6 unique J



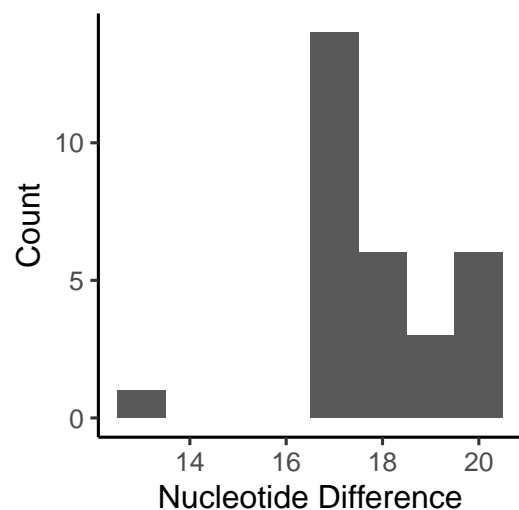
IGHV4S19*01_C66A

5351 sequences assigned
221 (4.1%) exact matches, in which:
209 unique CDR3
6 unique J



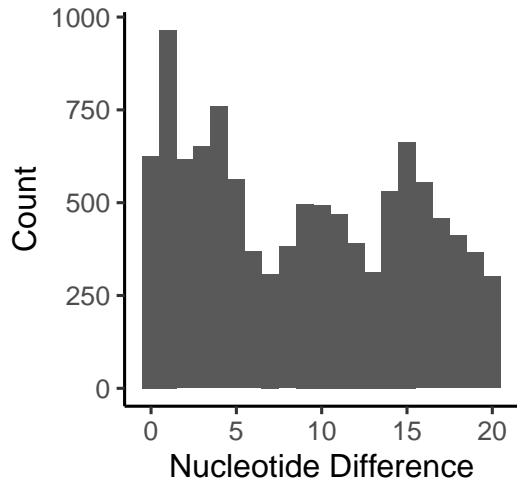
IGHV7S3*01

592 sequences assigned
No exact matches.



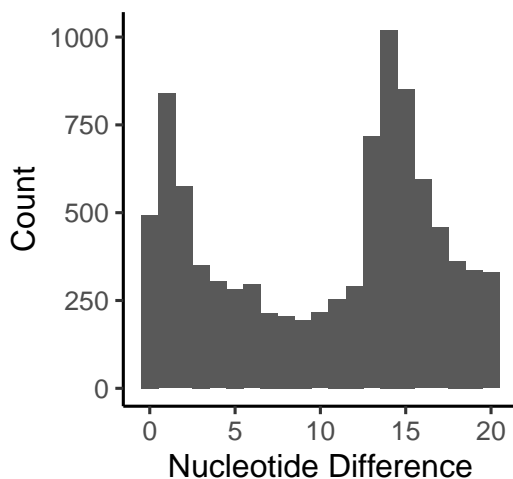
IGHV4S17*01_A166T_A

12305 sequences assigned
625 (5.1%) exact matches, in which:
593 unique CDR3
6 unique J



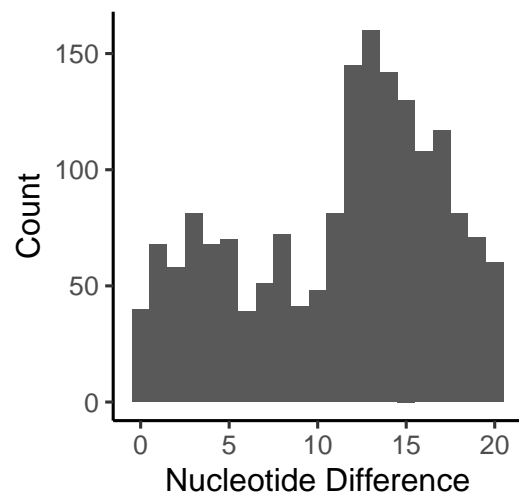
IGHV4S7*01_G110C_C'

11485 sequences assigned
493 (4.3%) exact matches, in which:
469 unique CDR3
6 unique J



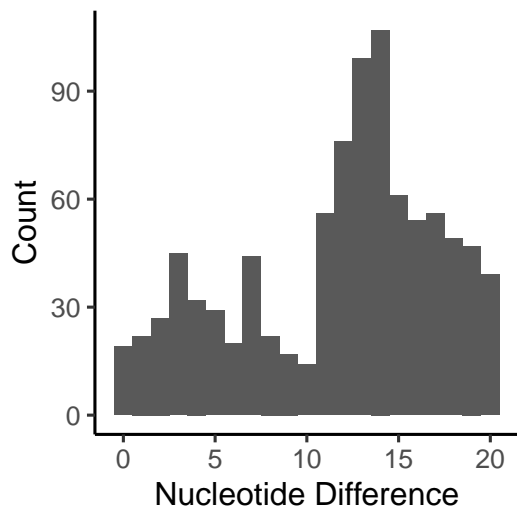
IGHV2-1*01_T132C_G27

2034 sequences assigned
40 (2%) exact matches, in which:
35 unique CDR3
6 unique J



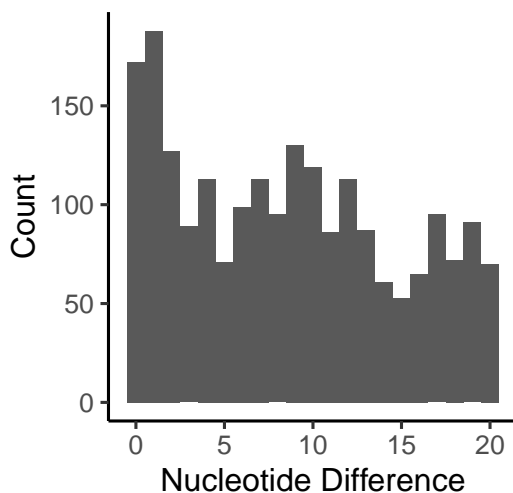
IGHV2-1*01_T132C_G271

1093 sequences assigned
19 (1.7%) exact matches, in which:
15 unique CDR3
5 unique J



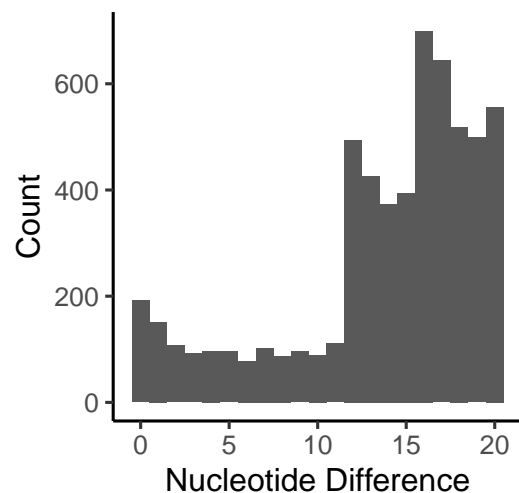
IGHV3-14*01_G110A_C'

2724 sequences assigned
172 (6.3%) exact matches, in which:
147 unique CDR3
6 unique J



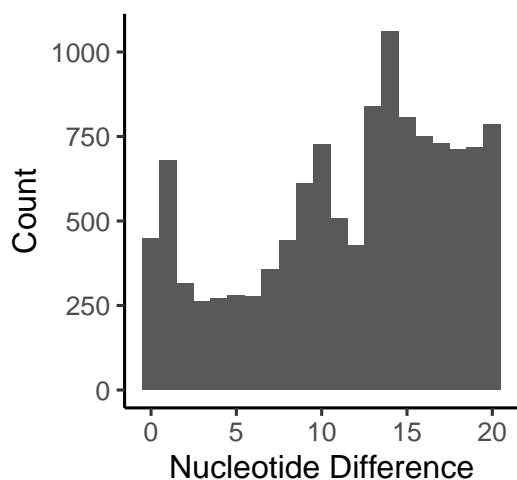
IGHV4-2*01_C4G_C173

12984 sequences assigned
192 (1.5%) exact matches, in which:
186 unique CDR3
6 unique J



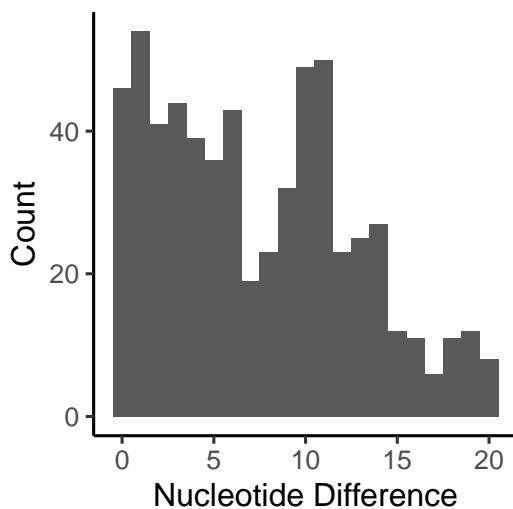
IGHV3-6*01_C61G_T12

17808 sequences assigned
447 (2.5%) exact matches, in which:
387 unique CDR3
6 unique J



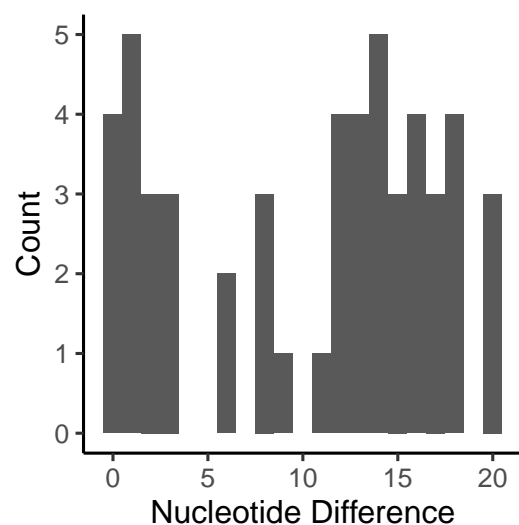
IGHV3-20*01_A169G_G1

664 sequences assigned
46 (6.9%) exact matches, in which:
43 unique CDR3
5 unique J



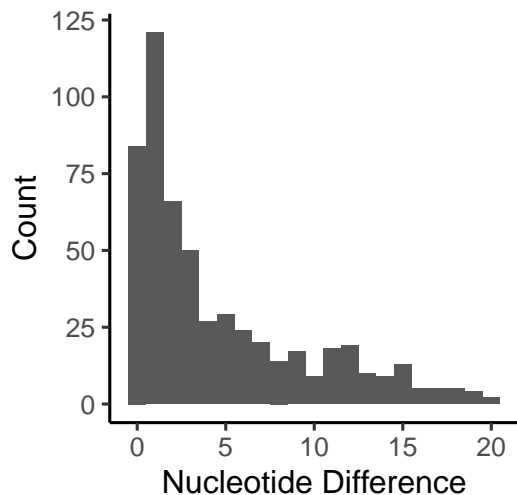
IGHV4-2*01_C4G_C90T_A

86 sequences assigned
4 (4.7%) exact matches, in which:
4 unique CDR3
2 unique J



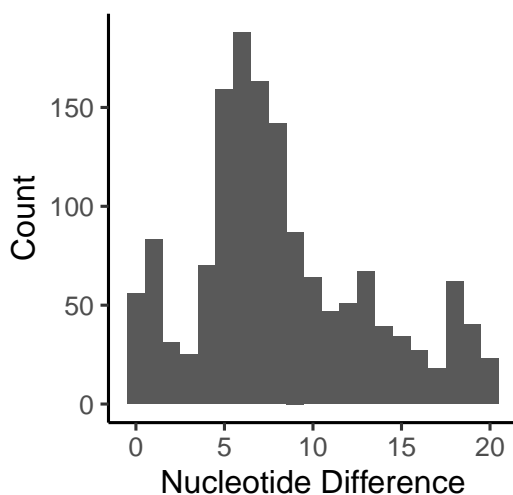
IGHV3-7*01_C167T_A17

1004 sequences assigned
84 (8.4%) exact matches, in which:
73 unique CDR3
6 unique J



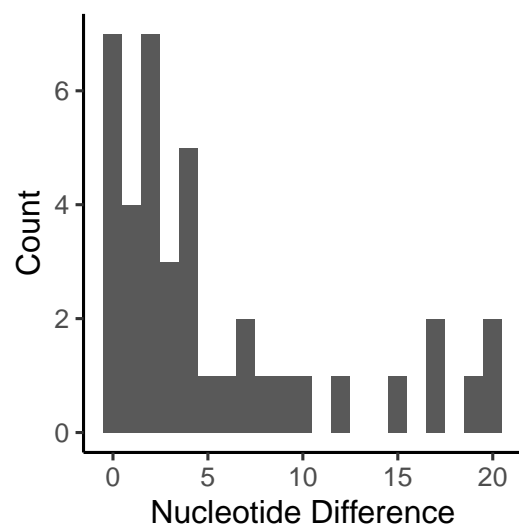
IGHV3-22*01_A39C_G4

1721 sequences assigned
56 (3.3%) exact matches, in which:
47 unique CDR3
5 unique J



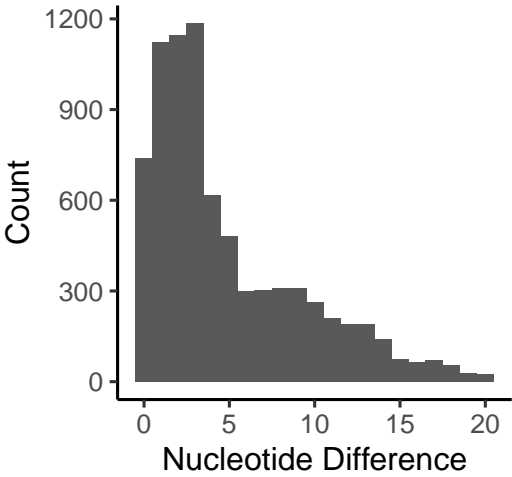
IGHV4-2*01_C4G_C90T_A

47 sequences assigned
7 (14.9%) exact matches, in which:
7 unique CDR3
2 unique J



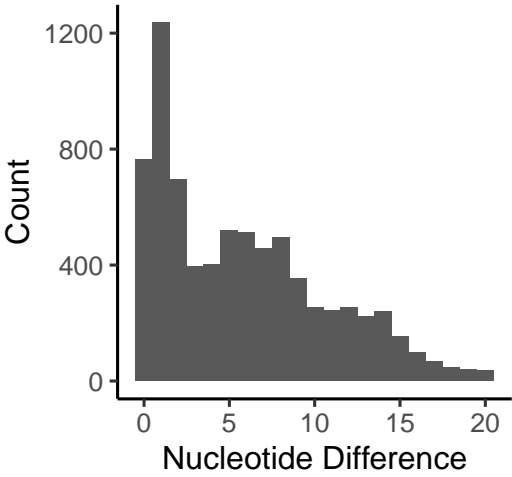
IGHV5-2*01_C45T_A73G

7933 sequences assigned
738 (9.3%) exact matches, in which:
613 unique CDR3
6 unique J



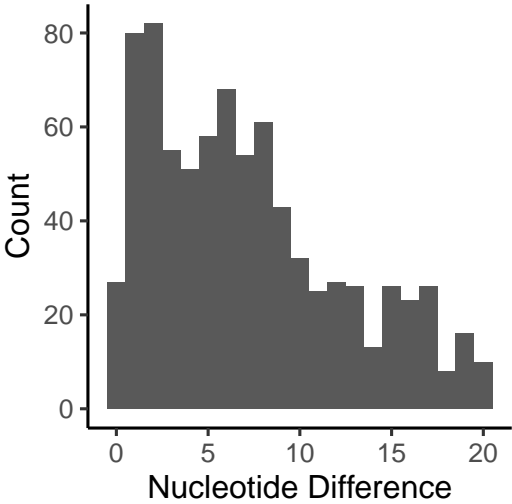
IGHV5-2*01_G51A_A59G_G166A_C167T_T171C_G172T_A178G_T298A

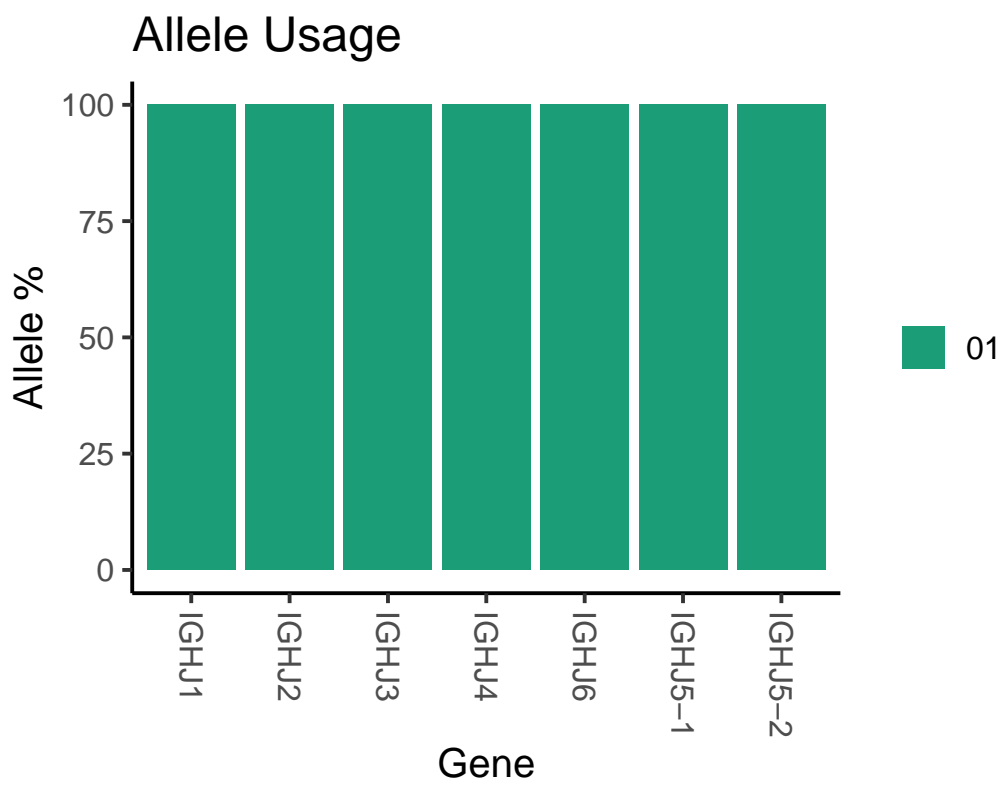
7647 sequences assigned
763 (10%) exact matches, in which:
640 unique CDR3
6 unique J



IGHV6-1*01_G227A

865 sequences assigned
27 (3.1%) exact matches, in which:
26 unique CDR3
6 unique J





Warning – no inferred sequences found.