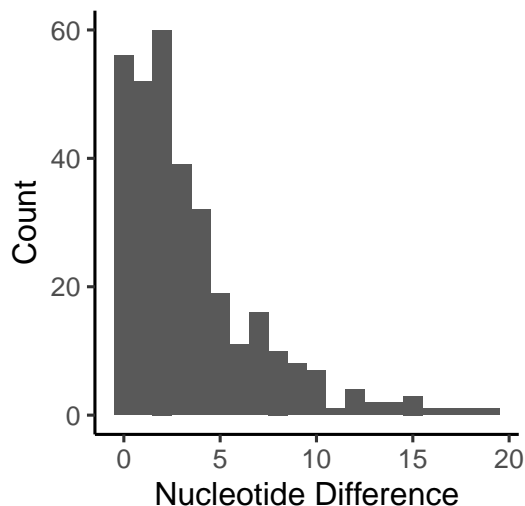


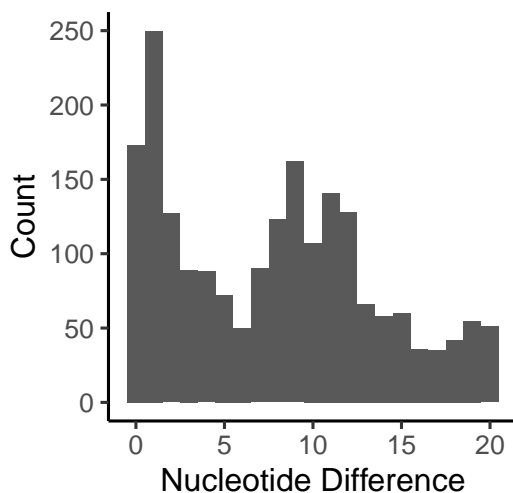
IGHV1S10*01_G167T

328 sequences assigned
56 (17.1%) exact matches, in which:
55 unique CDR3
6 unique J



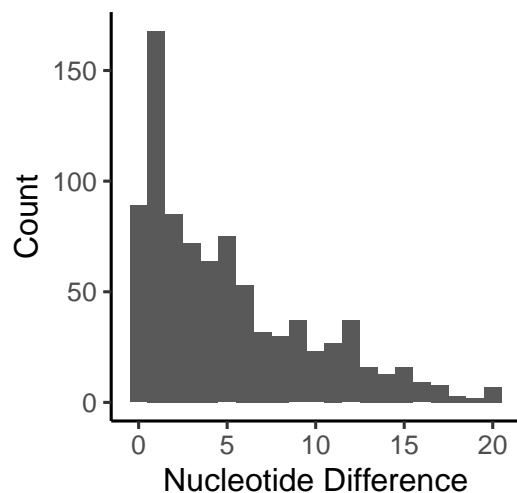
IGHV2S1*01_G6C_G36C

2271 sequences assigned
173 (7.6%) exact matches, in which:
149 unique CDR3
6 unique J



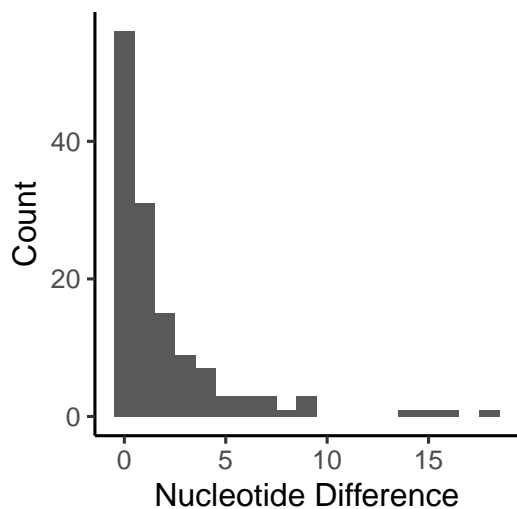
IGHV2S2*01_C6G_G115

903 sequences assigned
89 (9.9%) exact matches, in which:
81 unique CDR3
6 unique J



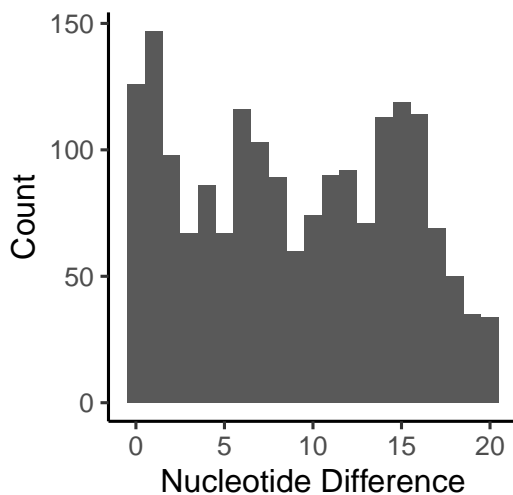
IGHV1S10*01_G61C_T63

294 sequences assigned
56 (19%) exact matches, in which:
53 unique CDR3
6 unique J



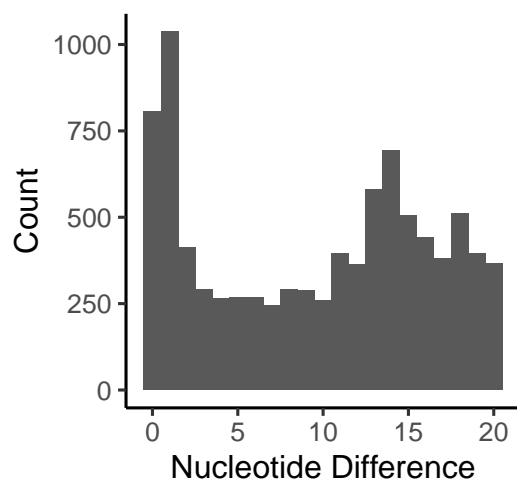
IGHV2S1*01_G6C_G36C

2029 sequences assigned
126 (6.2%) exact matches, in which:
111 unique CDR3
6 unique J



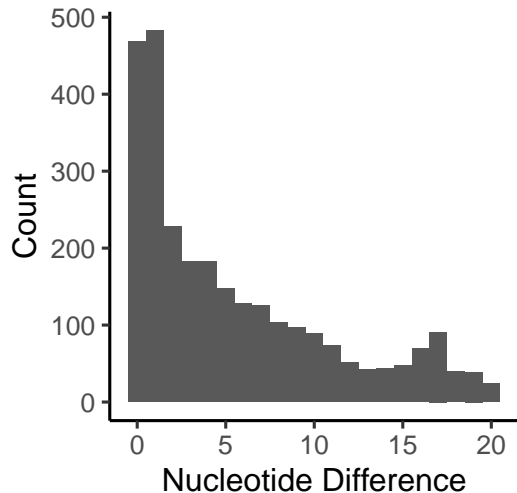
IGHV3S11*01_C267T

11771 sequences assigned
805 (6.8%) exact matches, in which:
710 unique CDR3
6 unique J



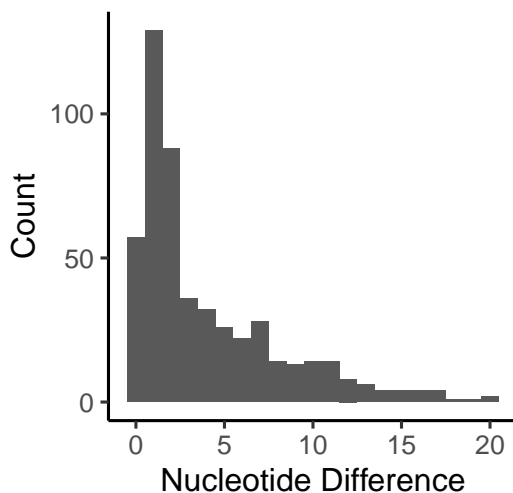
IGHV1S9*01_G18A_G49

2971 sequences assigned
468 (15.8%) exact matches, in which:
418 unique CDR3
6 unique J



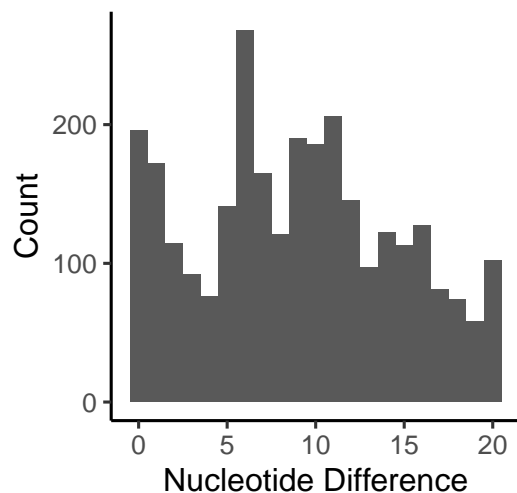
IGHV2S2*01_C6G_C34T

511 sequences assigned
57 (11.2%) exact matches, in which:
52 unique CDR3
6 unique J



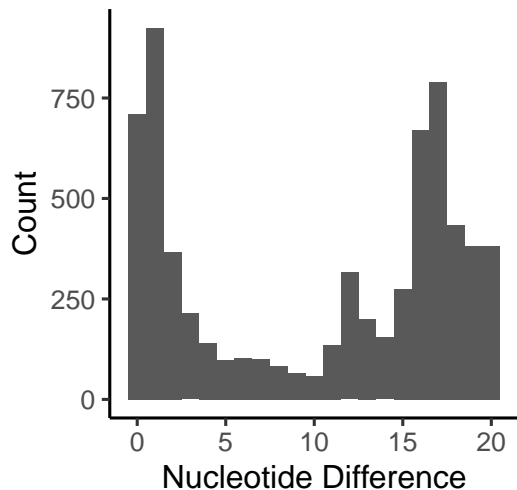
IGHV3S11*01_T51A_C78

4050 sequences assigned
196 (4.8%) exact matches, in which:
170 unique CDR3
6 unique J



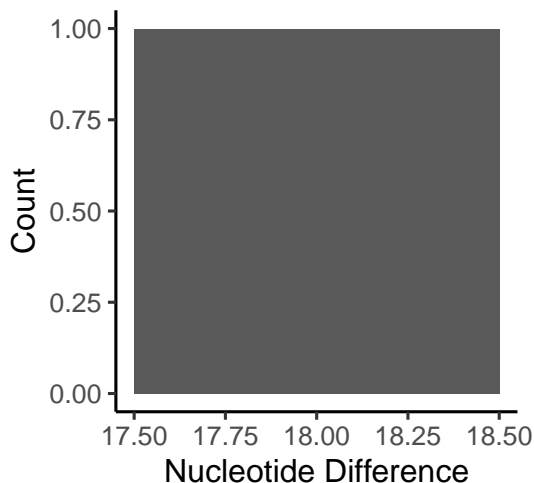
IGHV3S16*01_A116G_G

8244 sequences assigned
710 (8.6%) exact matches, in which:
633 unique CDR3
6 unique J



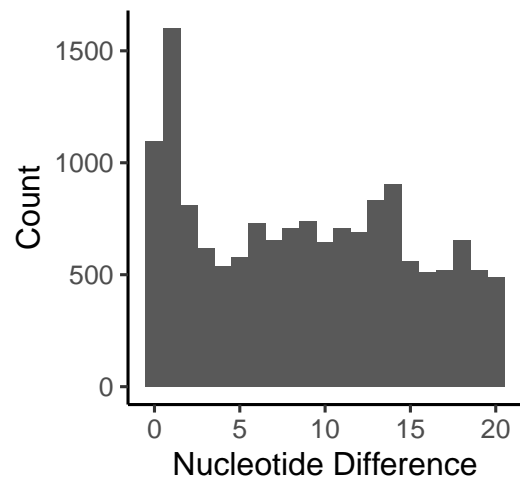
IGHV3S21*01

1 sequences assigned
No exact matches.



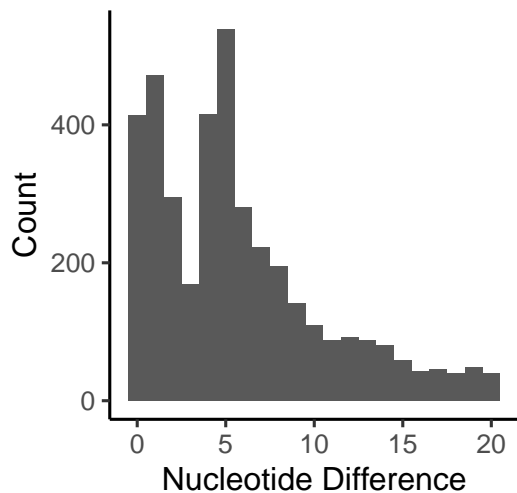
IGHV3S25*01_T78C_G1

20251 sequences assigned
1098 (5.4%) exact matches, in which:
976 unique CDR3
6 unique J



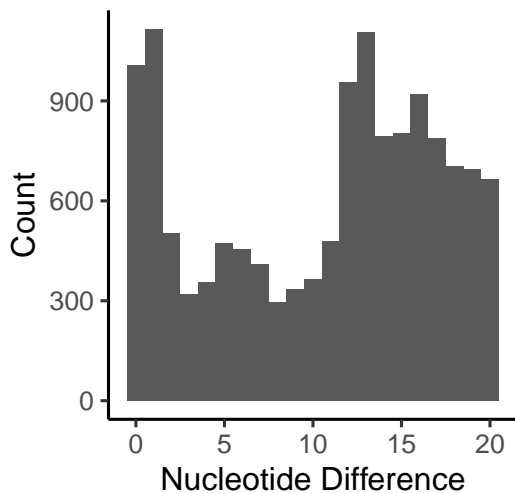
IGHV3S18*01_T69C_T78

4342 sequences assigned
414 (9.5%) exact matches, in which:
365 unique CDR3
6 unique J



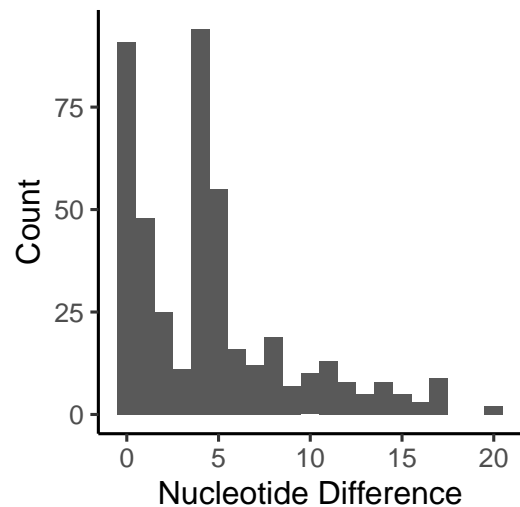
IGHV3S25*01_C114T_T1

19249 sequences assigned
1007 (5.2%) exact matches, in which:
920 unique CDR3
6 unique J



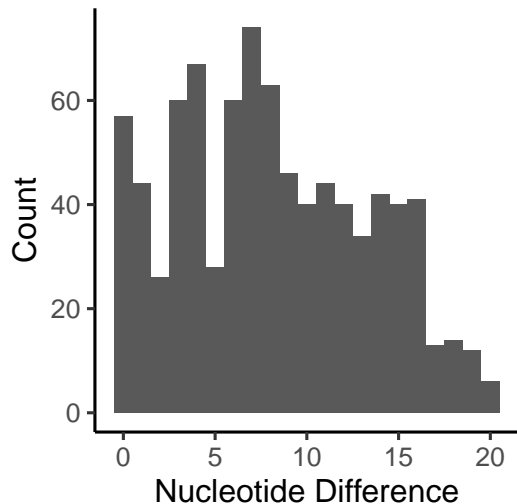
IGHV3S26*01_C3A_G127

507 sequences assigned
91 (17.9%) exact matches, in which:
85 unique CDR3
6 unique J



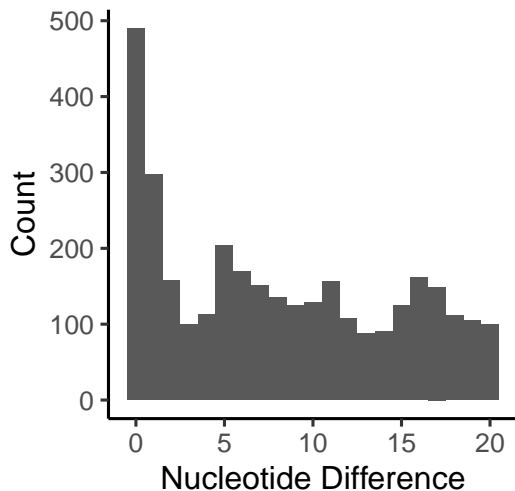
IGHV3S20*01_C34T_G26

1024 sequences assigned
57 (5.6%) exact matches, in which:
50 unique CDR3
6 unique J



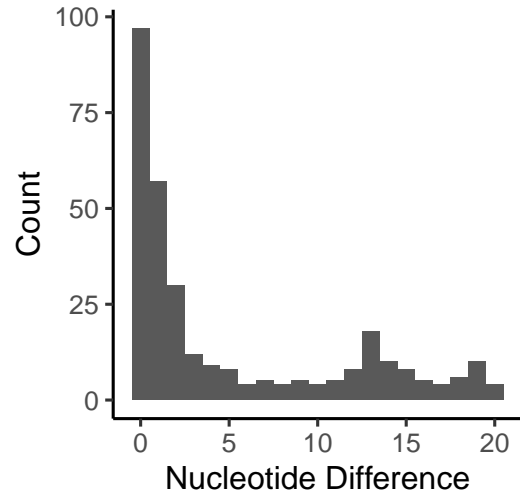
IGHV3S25*01_C114T_T1

3878 sequences assigned
490 (12.6%) exact matches, in which:
476 unique CDR3
6 unique J



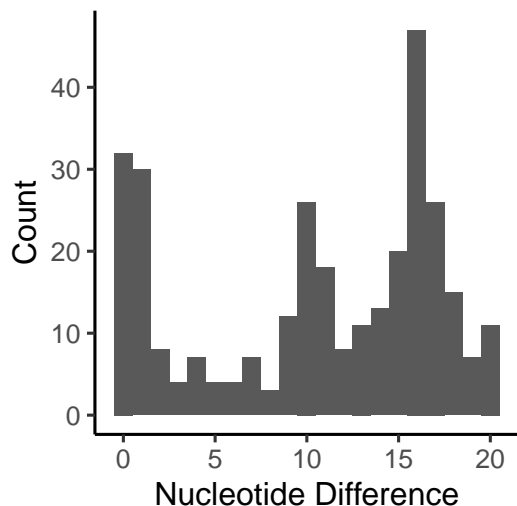
IGHV3S26*01_C3G_T114

687 sequences assigned
97 (14.1%) exact matches, in which:
91 unique CDR3
6 unique J



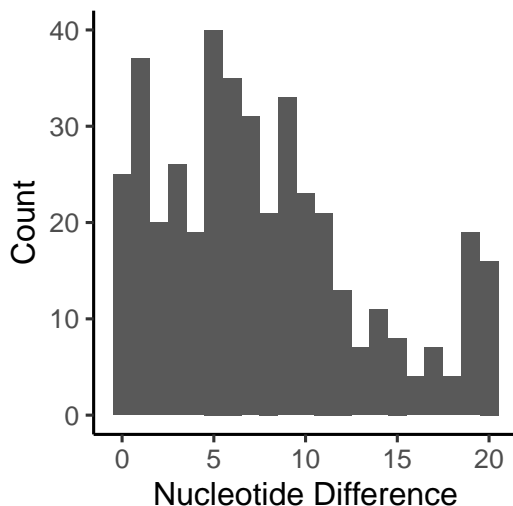
IGHV3S30*01_A19T_G20

331 sequences assigned
32 (9.7%) exact matches, in which:
29 unique CDR3
4 unique J



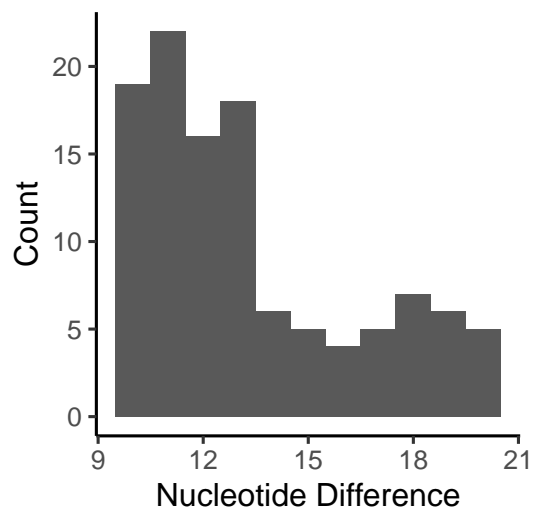
IGHV3S43*01_A7C_A15G

620 sequences assigned
25 (4%) exact matches, in which:
25 unique CDR3
5 unique J



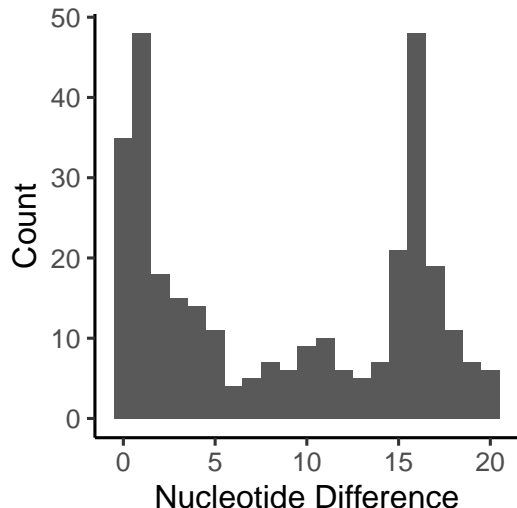
IGHV3S7*01

141 sequences assigned
No exact matches.



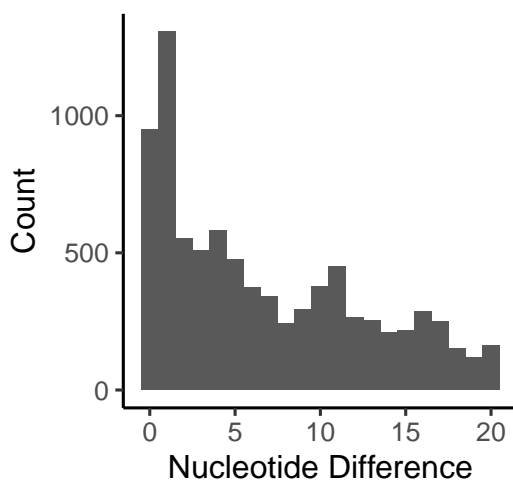
IGHV3S30*01_A307T

345 sequences assigned
35 (10.1%) exact matches, in which:
30 unique CDR3
6 unique J



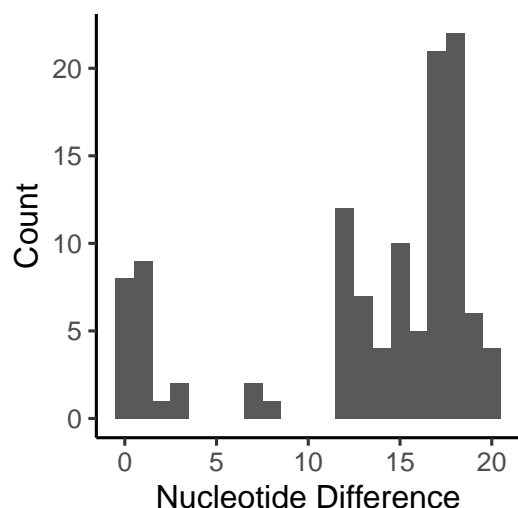
IGHV3S45*01_G26C_G

8826 sequences assigned
948 (10.7%) exact matches, in which:
839 unique CDR3
6 unique J



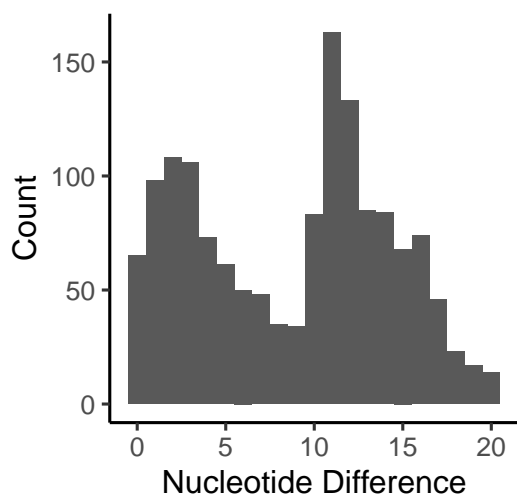
IGHV4S10*01_C90T_G10

207 sequences assigned
8 (3.9%) exact matches, in which:
8 unique CDR3
5 unique J



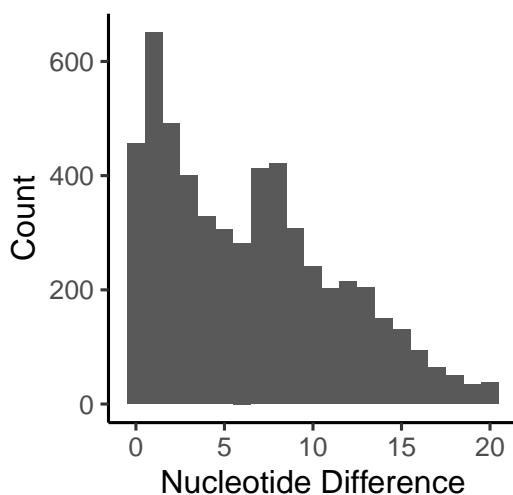
IGHV3S32*01_T128C_T1

1571 sequences assigned
65 (4.1%) exact matches, in which:
53 unique CDR3
5 unique J



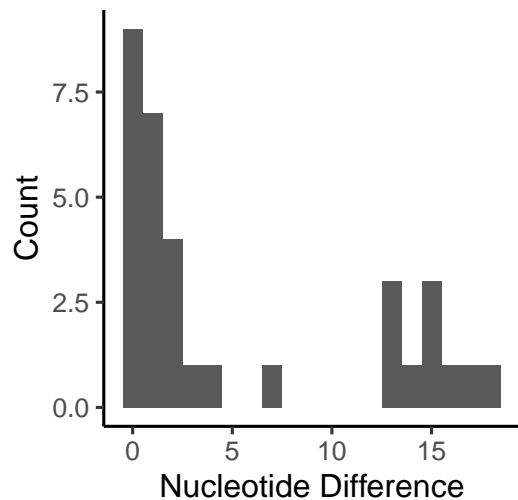
IGHV3S45*01_G26C_G1

5905 sequences assigned
457 (7.7%) exact matches, in which:
397 unique CDR3
6 unique J



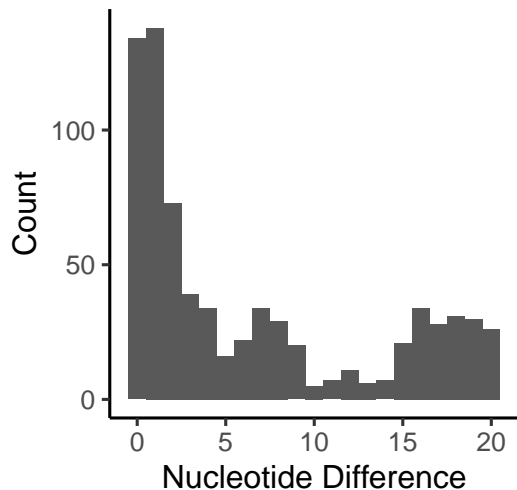
IGHV4S10*01_C90T_G10

41 sequences assigned
9 (22%) exact matches, in which:
9 unique CDR3
6 unique J



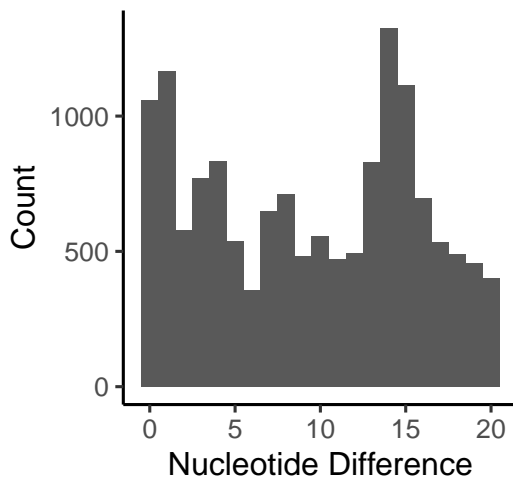
IGHV4S12*01_C291A

919 sequences assigned
134 (14.6%) exact matches, in which:
131 unique CDR3
6 unique J



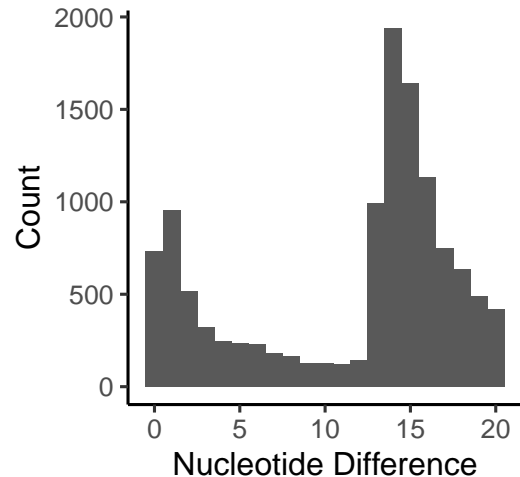
IGHV4S17*01_A166T_A

17477 sequences assigned
1059 (6.1%) exact matches, in which:
991 unique CDR3
6 unique J



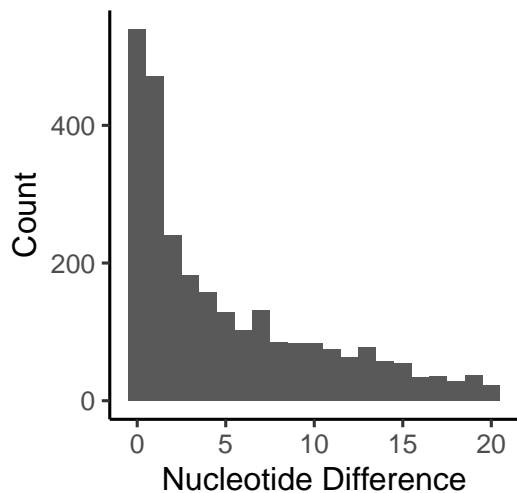
IGHV4S7*01_G110C_C

15667 sequences assigned
731 (4.7%) exact matches, in which:
685 unique CDR3
6 unique J



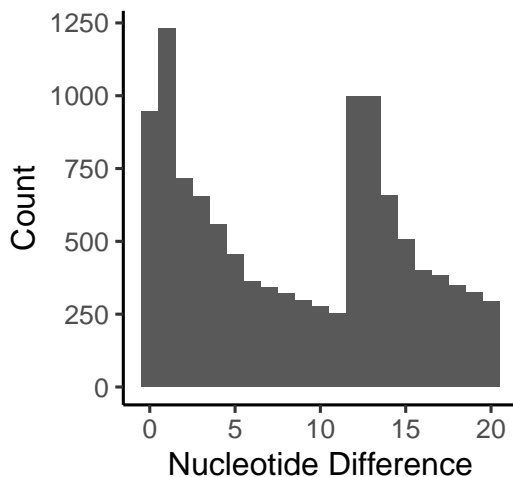
IGHV4S12*01_G34C_C9

2863 sequences assigned
540 (18.9%) exact matches, in which:
514 unique CDR3
6 unique J



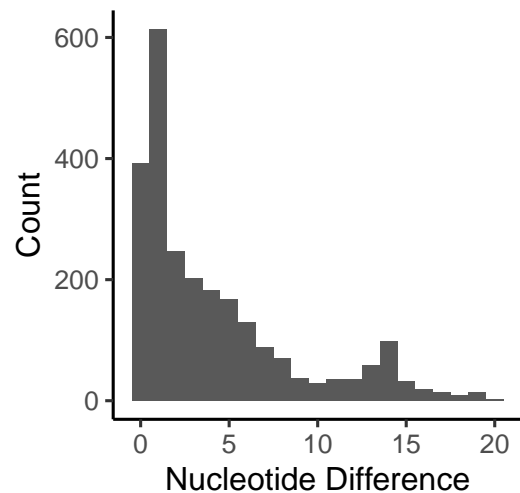
IGHV4S18*01_C34G_T1

13506 sequences assigned
946 (7%) exact matches, in which:
887 unique CDR3
6 unique J



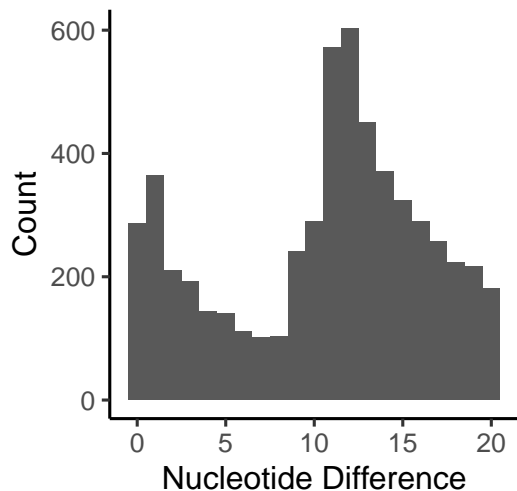
IGHV5S1*01_C45T_G51A

2499 sequences assigned
393 (15.7%) exact matches, in which:
322 unique CDR3
6 unique J



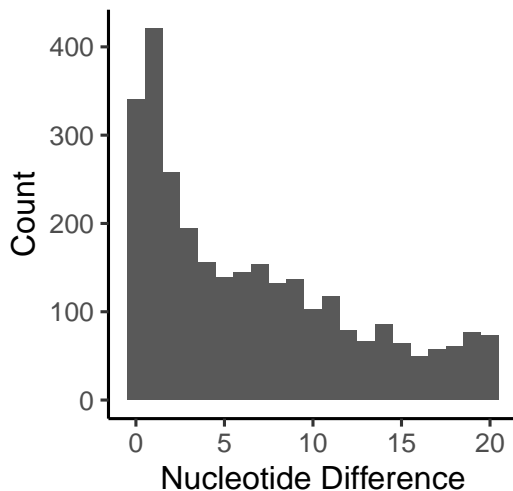
IGHV4S14*01_T90C_A16

7364 sequences assigned
286 (3.9%) exact matches, in which:
274 unique CDR3
6 unique J



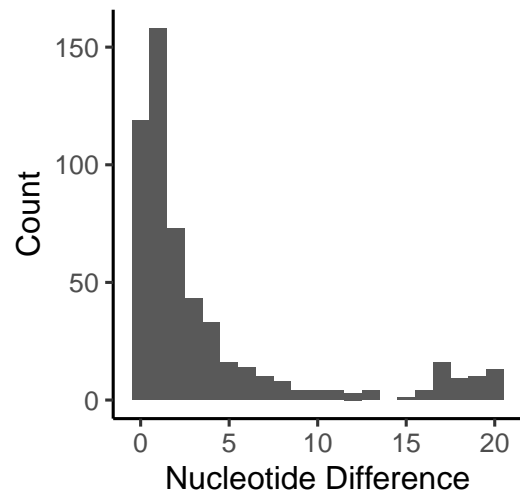
IGHV4S19*01_C66A

3632 sequences assigned
340 (9.4%) exact matches, in which:
323 unique CDR3
6 unique J



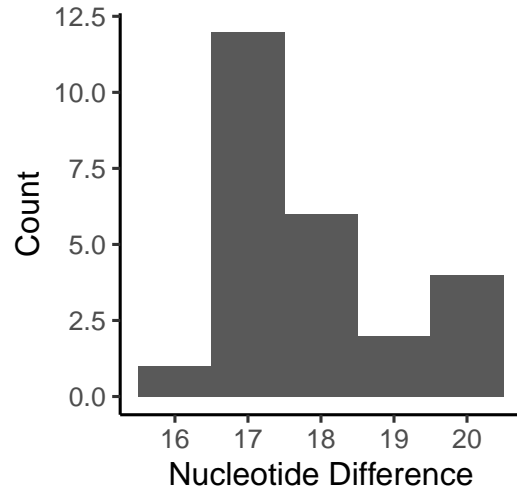
IGHV5S1*01_G51A_A84

565 sequences assigned
119 (21.1%) exact matches, in which:
95 unique CDR3
6 unique J



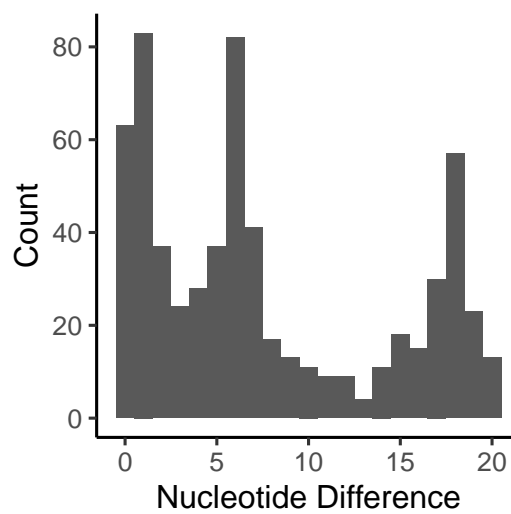
IGHV7S3*01

446 sequences assigned
No exact matches.



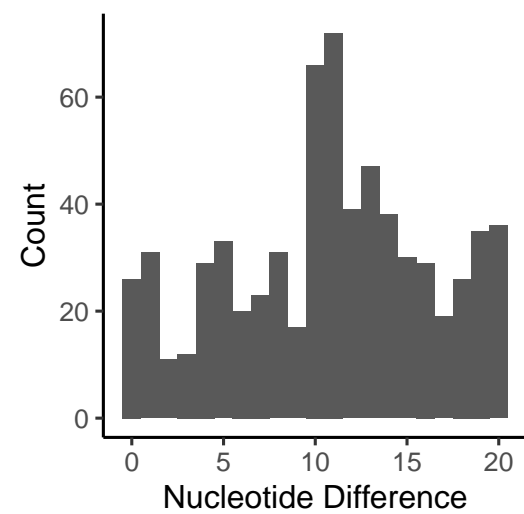
IGHV3-7*01_C167T_A175

812 sequences assigned
63 (7.8%) exact matches, in which:
56 unique CDR3
5 unique J



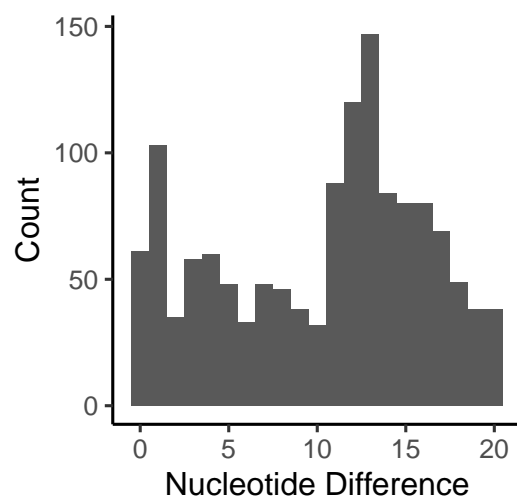
IGHV3-22*01_A39C_G48

1334 sequences assigned
26 (1.9%) exact matches, in which:
24 unique CDR3
6 unique J



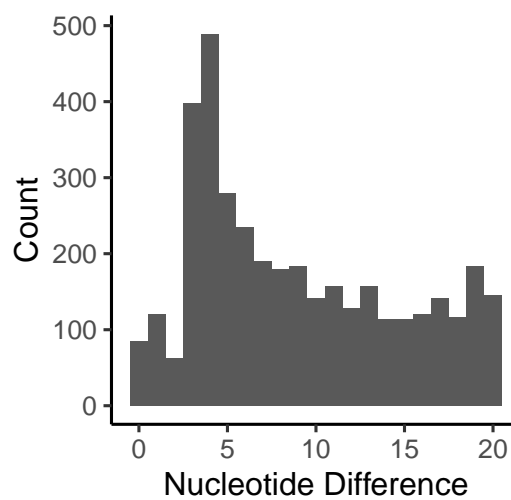
IGHV2-1*01_T132C_G27

1490 sequences assigned
61 (4.1%) exact matches, in which:
52 unique CDR3
6 unique J



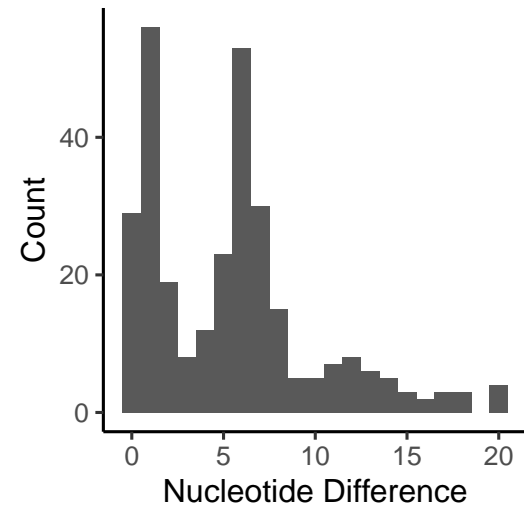
IGHV3-9*01_C78T_G121

4397 sequences assigned
85 (1.9%) exact matches, in which:
77 unique CDR3
6 unique J



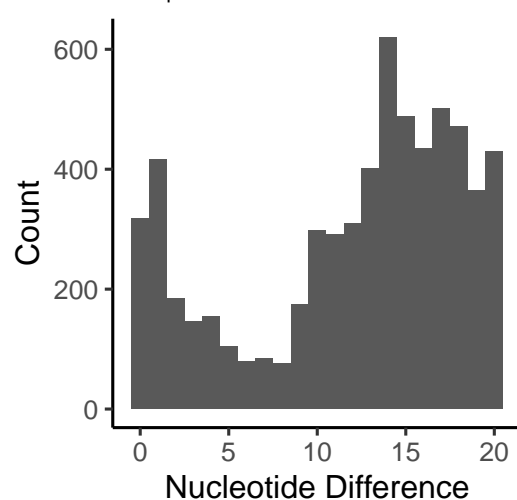
IGHV3-22*01_C10T_A220

301 sequences assigned
29 (9.6%) exact matches, in which:
22 unique CDR3
6 unique J



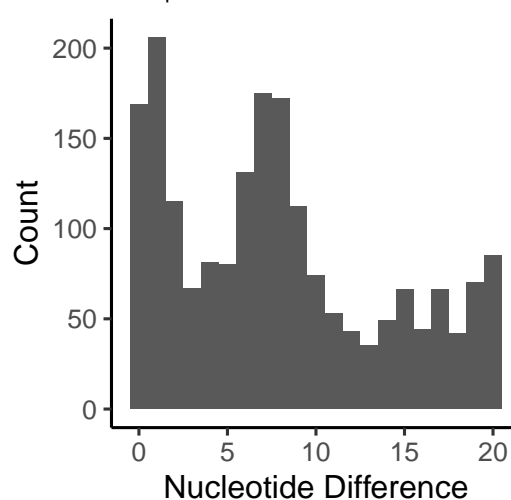
IGHV3-6*01_C61G_T122

11150 sequences assigned
318 (2.9%) exact matches, in which:
282 unique CDR3
6 unique J



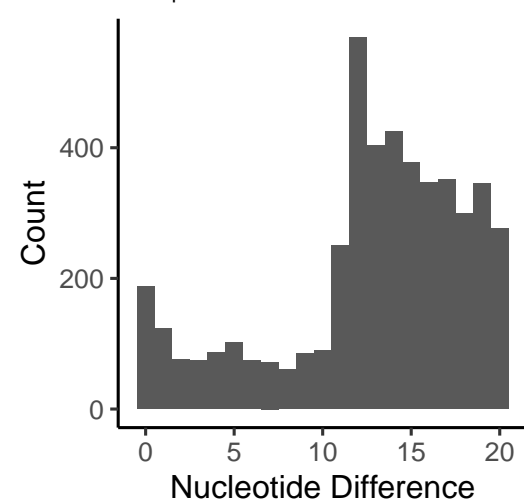
IGHV3-14*01_G110A_C

2804 sequences assigned
169 (6%) exact matches, in which:
151 unique CDR3
6 unique J



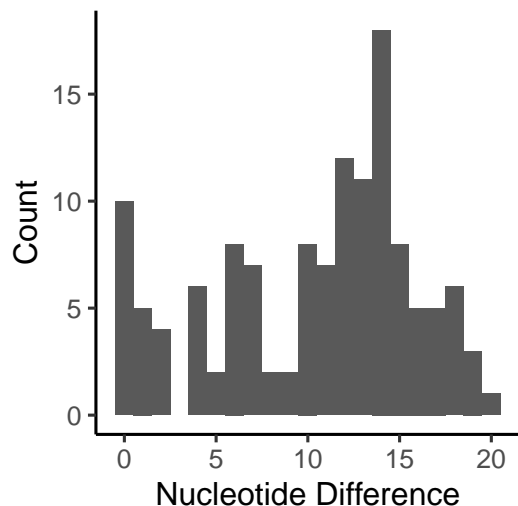
IGHV4-2*01_C4G_C173

9581 sequences assigned
188 (2%) exact matches, in which:
179 unique CDR3
6 unique J



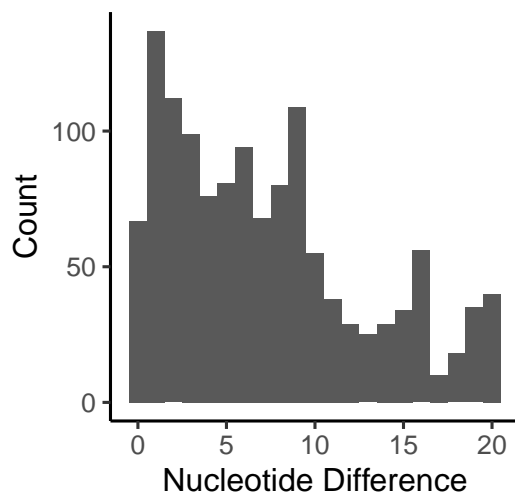
IGHV4-2*01_C4G_C90T_

181 sequences assigned
10 (5.5%) exact matches, in which:
10 unique CDR3
4 unique J



IGHV6-1*01_G233C_

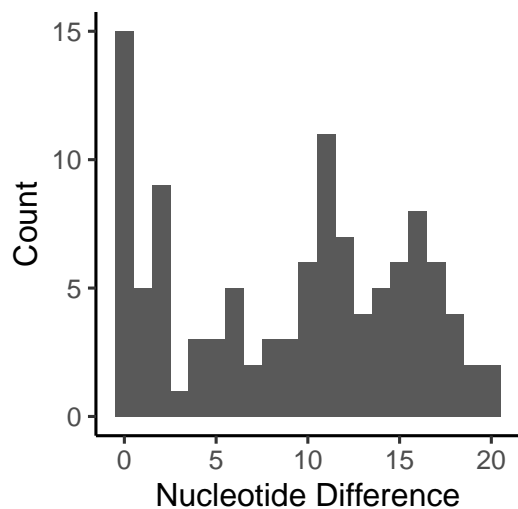
1358 sequences assigned
67 (4.9%) exact matches, in which:
65 unique CDR3
6 unique J



_C166T_G167A_C173A_C201A_

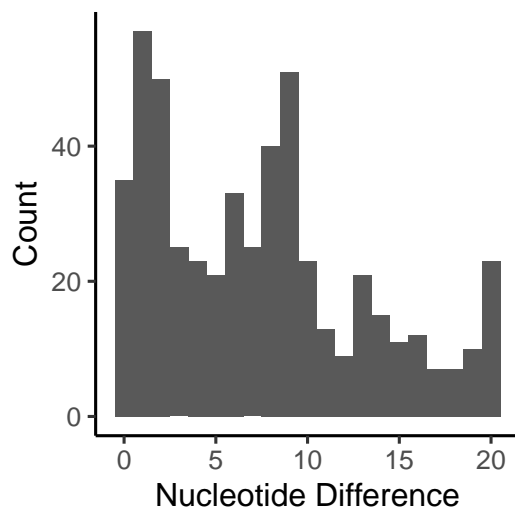
IGHV4-2*01_C4G_C90T_

122 sequences assigned
15 (12.3%) exact matches, in which:
11 unique CDR3
4 unique J



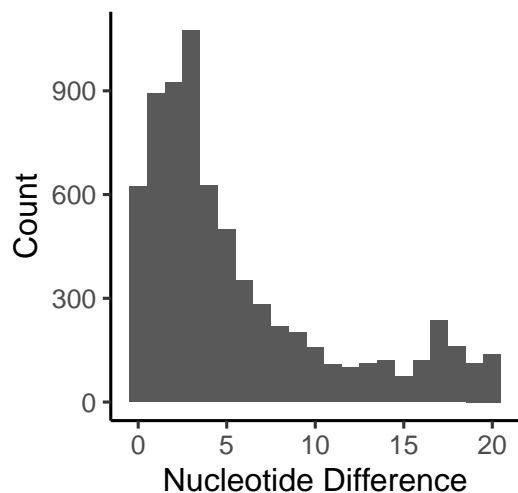
IGHV6-1*01_G233C_G283T_C166T_G167A_C173A_C201A_

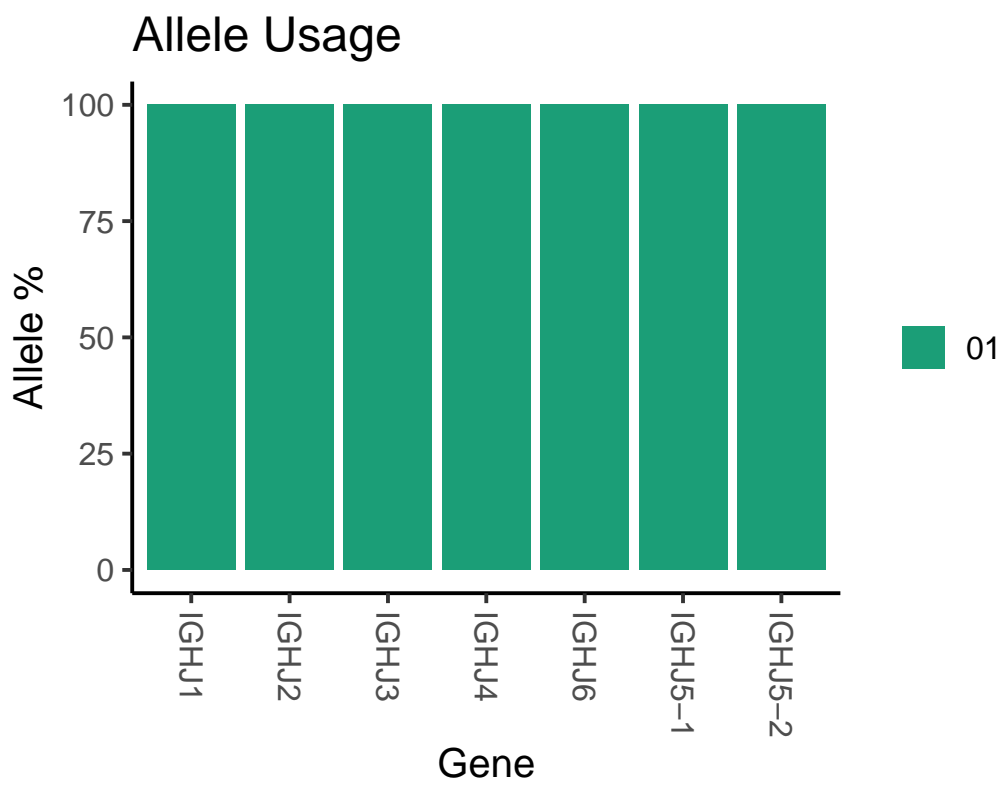
542 sequences assigned
35 (6.5%) exact matches, in which:
31 unique CDR3
5 unique J



IGHV5-2*01_C45T_A73G_

7641 sequences assigned
623 (8.2%) exact matches, in which:
538 unique CDR3
6 unique J





Warning – no inferred sequences found.