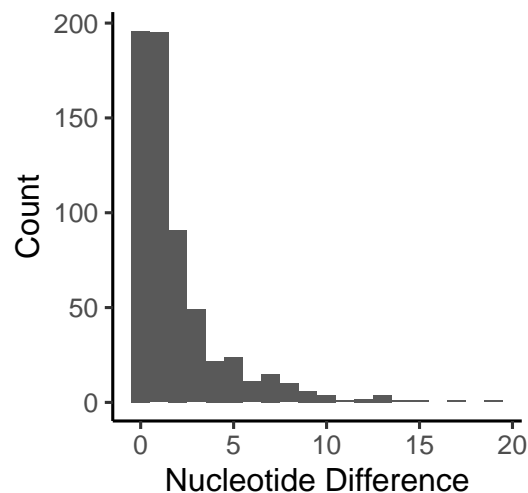


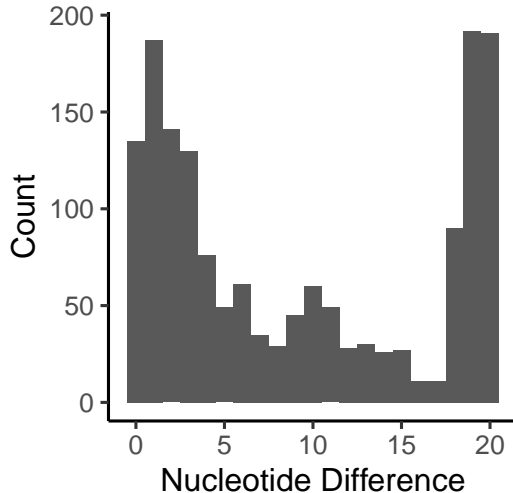
IGHV1S10*01_G167T

636 sequences assigned
196 (30.8%) exact matches, in which:
178 unique CDR3
6 unique J



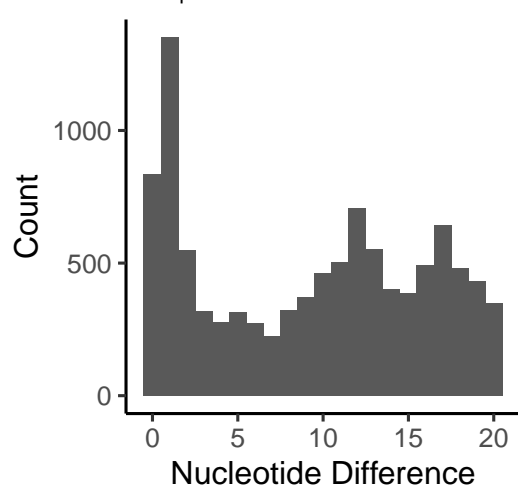
IGHV2S1*01_G6C_G36C

3250 sequences assigned
135 (4.2%) exact matches, in which:
119 unique CDR3
6 unique J



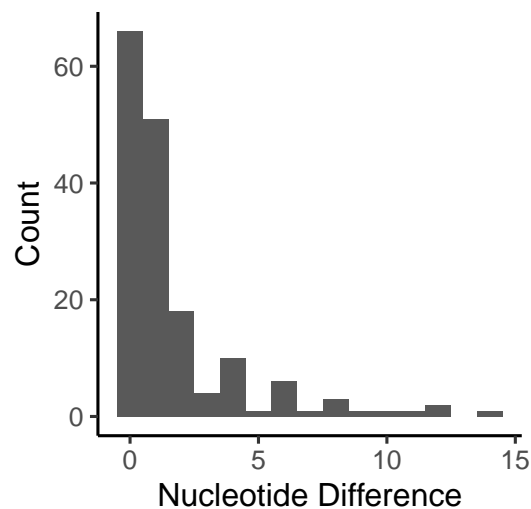
IGHV3S11*01_C267T

11923 sequences assigned
837 (7%) exact matches, in which:
693 unique CDR3
6 unique J



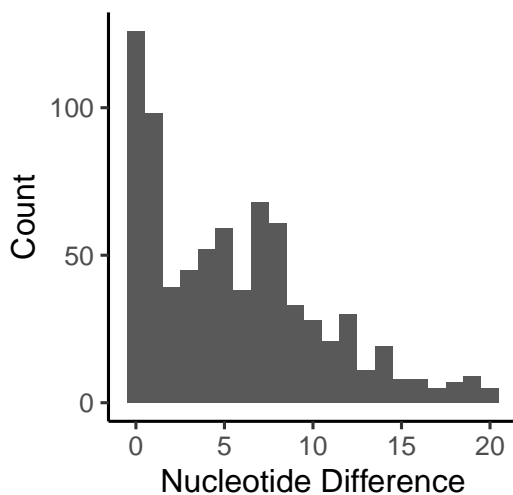
IGHV1S10*01_G61C_T63

647 sequences assigned
66 (10.2%) exact matches, in which:
65 unique CDR3
6 unique J



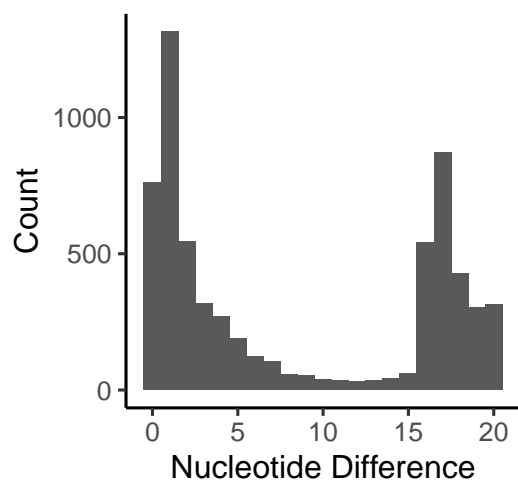
IGHV2S1*01_G6C_G36C

812 sequences assigned
126 (15.5%) exact matches, in which:
121 unique CDR3
6 unique J



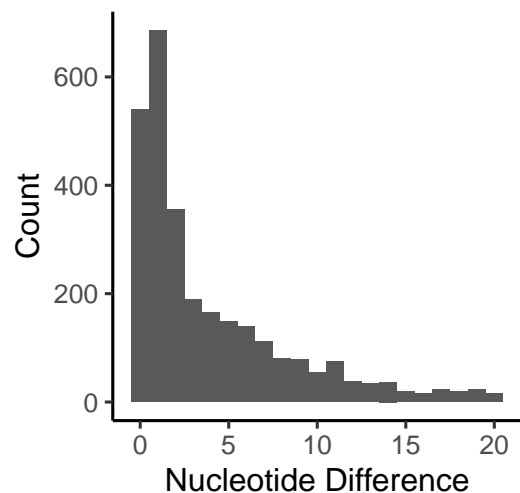
IGHV3S16*01_A116G_C

8762 sequences assigned
761 (8.7%) exact matches, in which:
632 unique CDR3
6 unique J



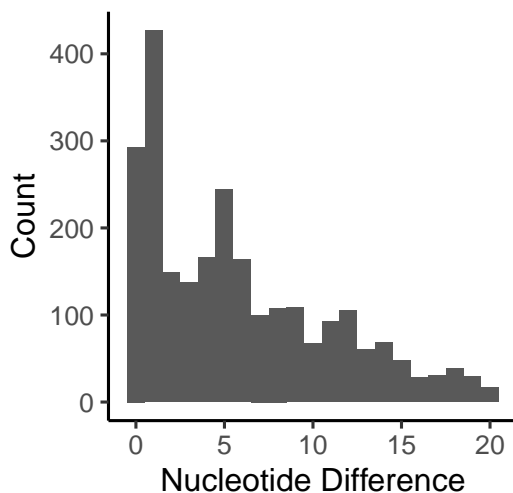
IGHV1S9*01_G18A_G49

2920 sequences assigned
539 (18.5%) exact matches, in which:
476 unique CDR3
6 unique J



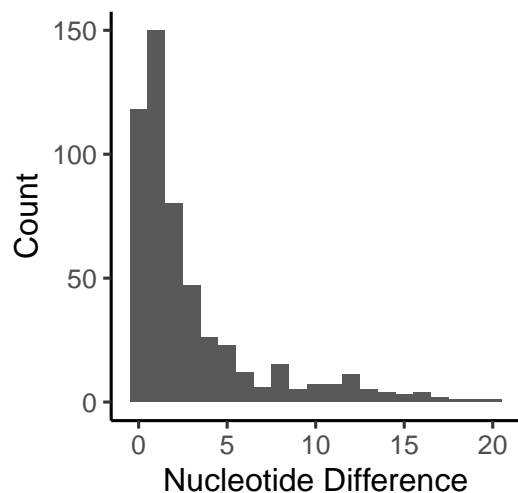
IGHV2S1*01_G6C_G36C

2549 sequences assigned
293 (11.5%) exact matches, in which:
243 unique CDR3
6 unique J



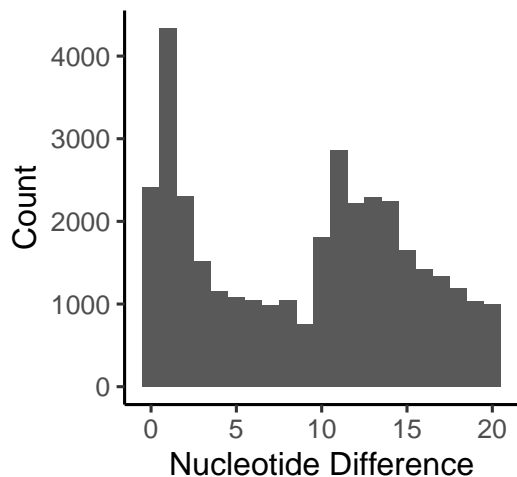
IGHV3S20*01_C34T_G20

534 sequences assigned
118 (22.1%) exact matches, in which:
102 unique CDR3
6 unique J



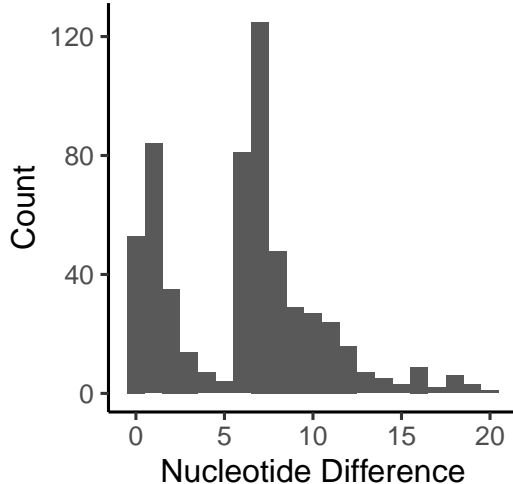
IGHV3S25*01_T78C_G1

42037 sequences assigned
2408 (5.7%) exact matches, in which:
1994 unique CDR3
6 unique J



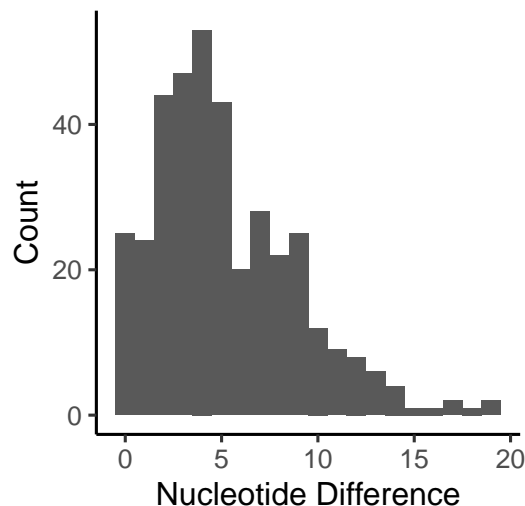
IGHV3S30*01_A19T_G2C

778 sequences assigned
53 (6.8%) exact matches, in which:
42 unique CDR3
6 unique J



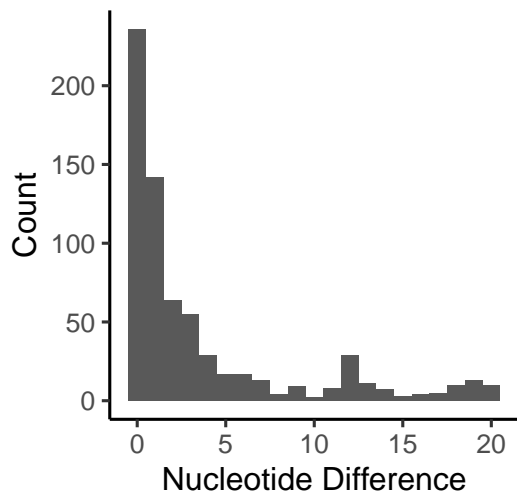
IGHV3S43*01_A7C_A15G

396 sequences assigned
25 (6.3%) exact matches, in which:
24 unique CDR3
5 unique J



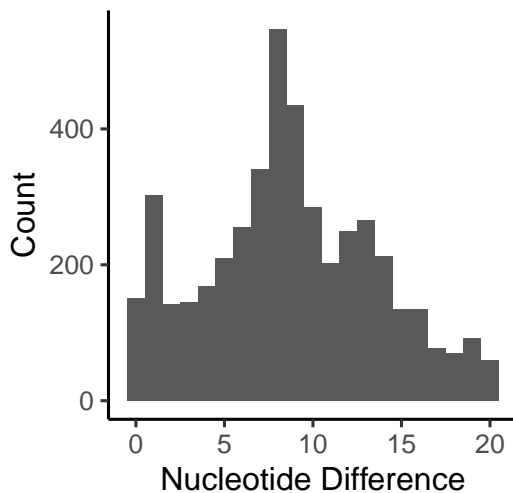
IGHV3S26*01_C3A_C54

704 sequences assigned
236 (33.5%) exact matches, in which:
222 unique CDR3
6 unique J



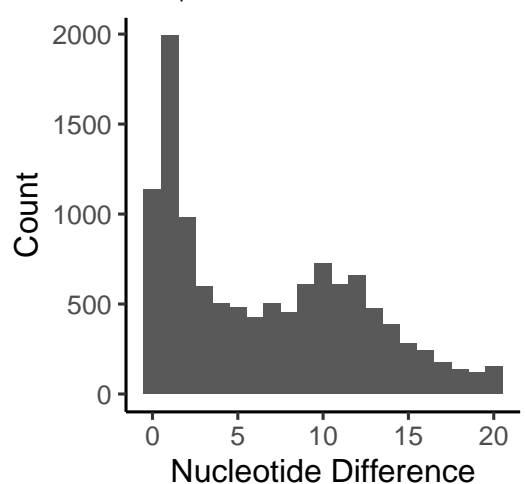
IGHV3S40*01_A27C_C3G

5350 sequences assigned
151 (2.8%) exact matches, in which:
122 unique CDR3
5 unique J



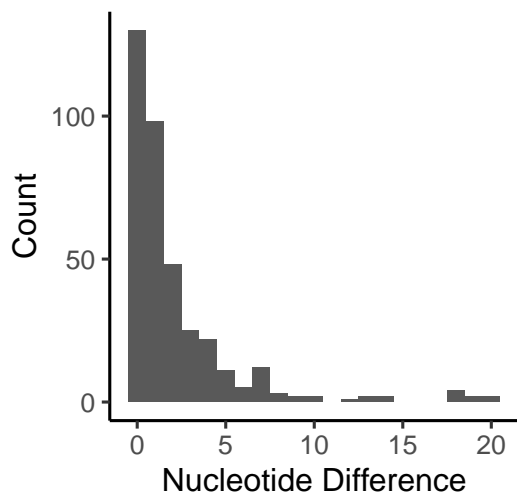
IGHV3S45*01_G26C_G

12688 sequences assigned
1138 (9%) exact matches, in which:
885 unique CDR3
6 unique J



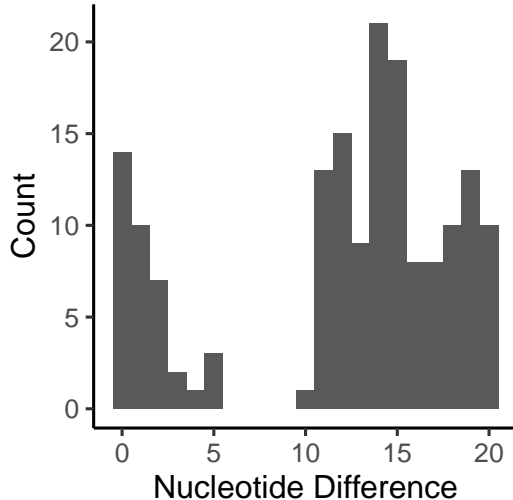
IGHV3S26*01_C3A_G12

400 sequences assigned
130 (32.5%) exact matches, in which:
121 unique CDR3
6 unique J



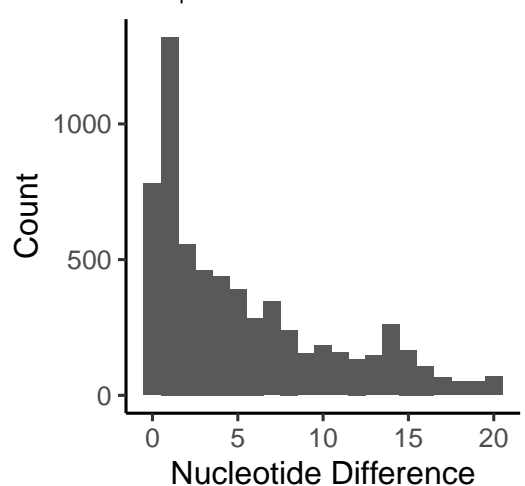
IGHV3S41*01_C27A_C38

1151 sequences assigned
14 (1.2%) exact matches, in which:
14 unique CDR3
4 unique J



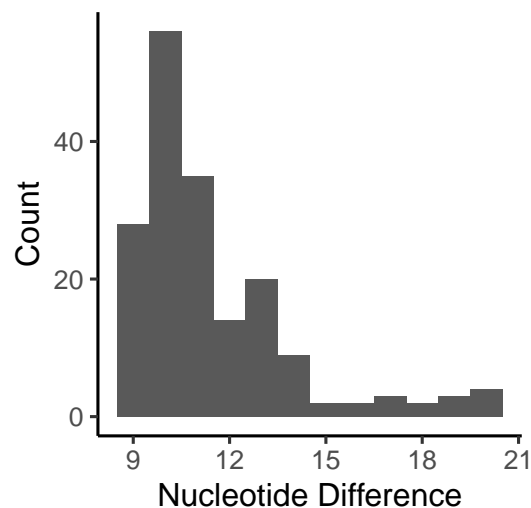
IGHV3S45*01_G26C_G

7132 sequences assigned
780 (10.9%) exact matches, in which:
631 unique CDR3
6 unique J



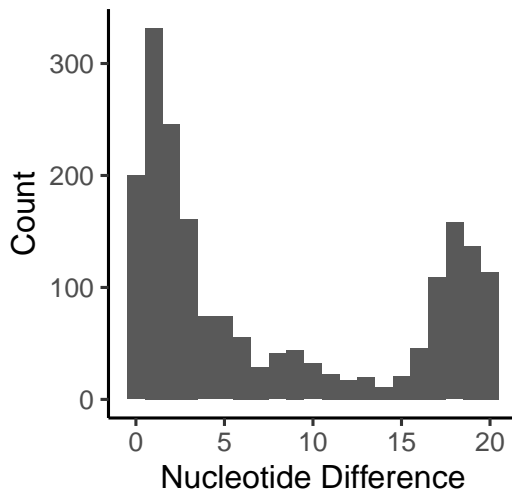
IGHV3S7*01

929 sequences assigned
No exact matches.



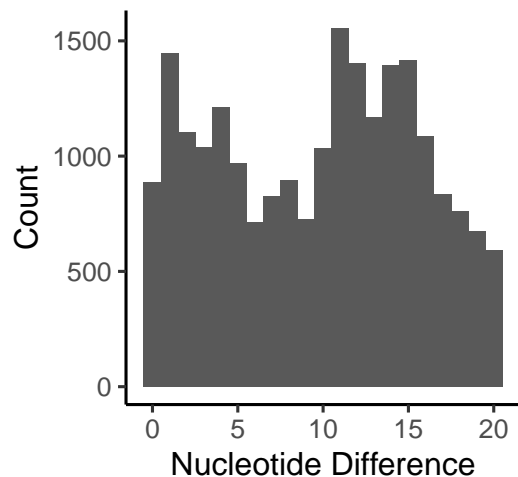
IGHV4S12*01_A199T_A2

2249 sequences assigned
200 (8.9%) exact matches, in which:
192 unique CDR3
6 unique J



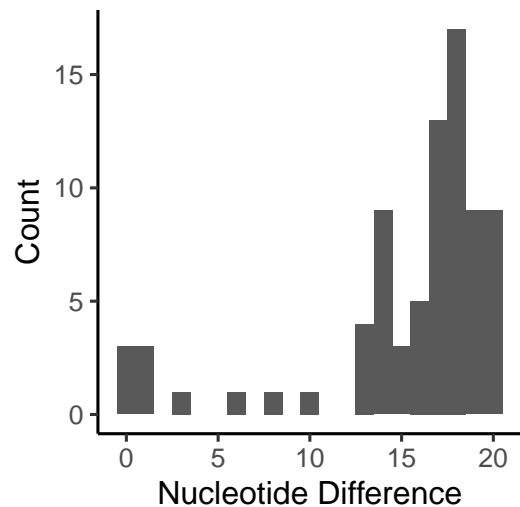
IGHV4S17*01_A166T_A

25049 sequences assigned
889 (3.5%) exact matches, in which:
833 unique CDR3
6 unique J



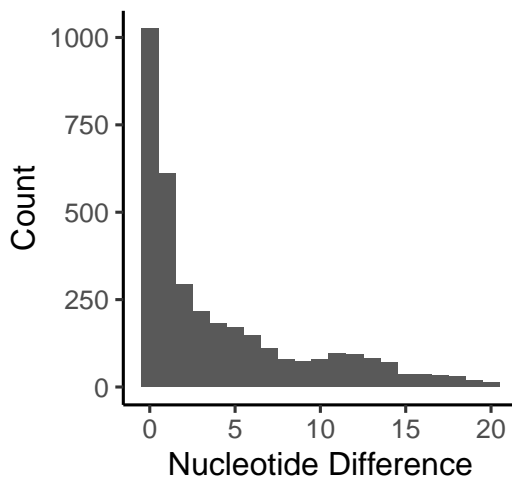
IGHV4S10*01_C90T_G10

102 sequences assigned
3 (2.9%) exact matches, in which:
3 unique CDR3
2 unique J



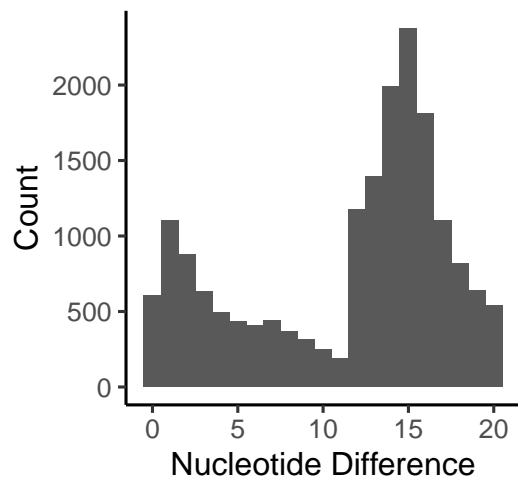
IGHV4S12*01_G34C_C9

3603 sequences assigned
1025 (28.4%) exact matches, in which:
721 unique CDR3
6 unique J



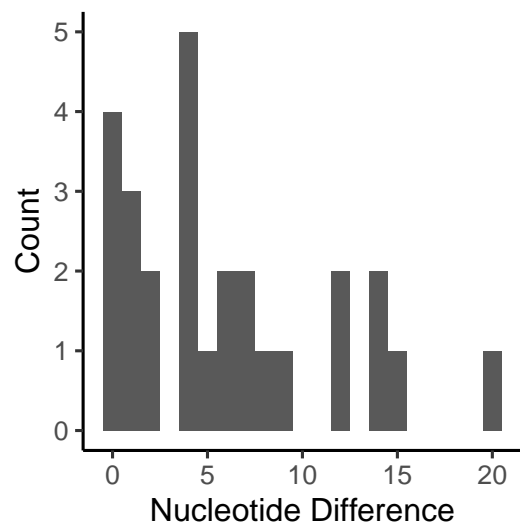
IGHV4S18*01_C34G_T1

21034 sequences assigned
607 (2.9%) exact matches, in which:
566 unique CDR3
6 unique J



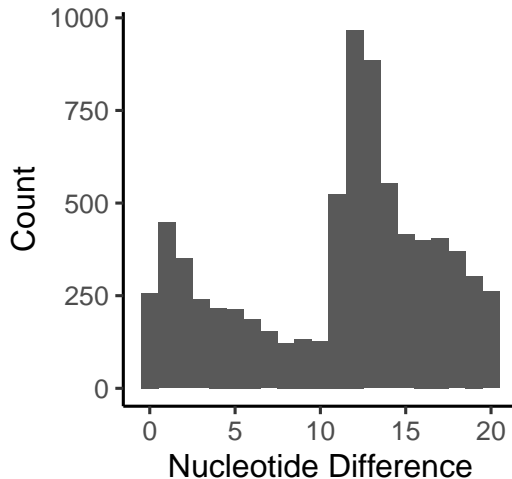
IGHV4S10*01_C90T_G109^ T110A_A116C_G109A_T109

28 sequences assigned
4 (14.3%) exact matches, in which:
4 unique CDR3
4 unique J



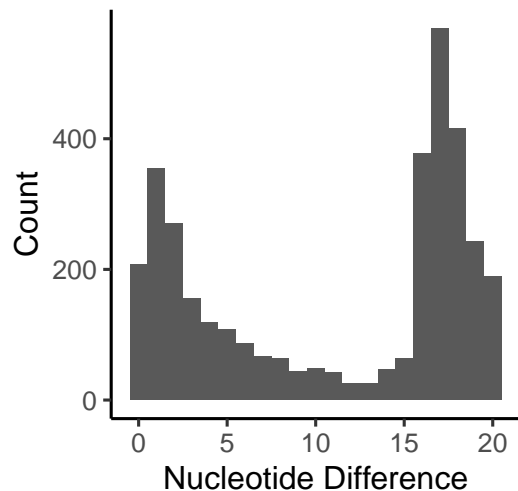
IGHV4S14*01_T90C_A1

9365 sequences assigned
257 (2.7%) exact matches, in which:
246 unique CDR3
6 unique J



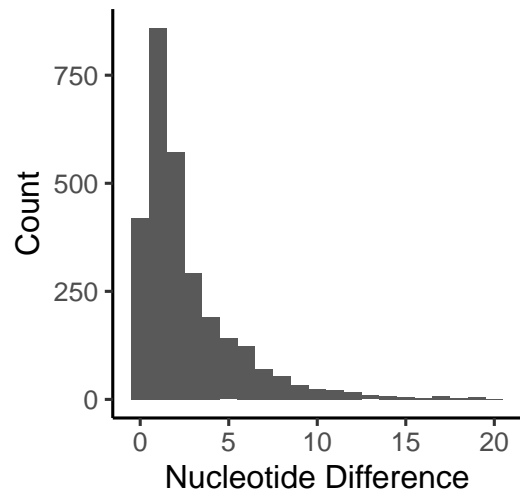
IGHV4S19*01_A166T_T1

4289 sequences assigned
208 (4.8%) exact matches, in which:
195 unique CDR3
6 unique J



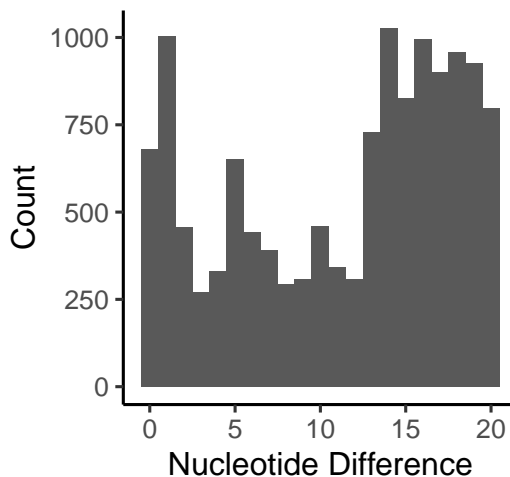
IGHV5S1*01_C45T_G51/

2877 sequences assigned
420 (14.6%) exact matches, in which:
339 unique CDR3
6 unique J



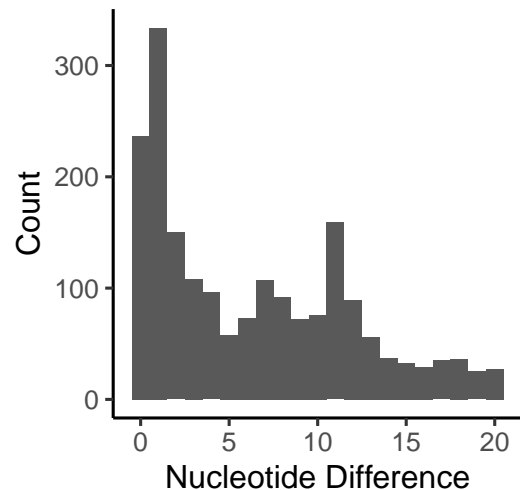
IGHV3-6*01_C61G_T12

21166 sequences assigned
679 (3.2%) exact matches, in which:
572 unique CDR3
6 unique J



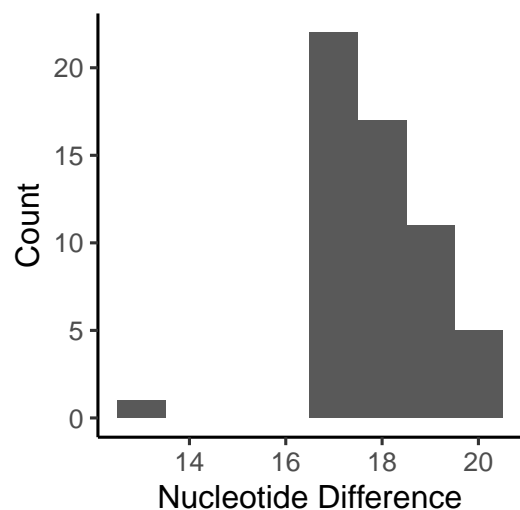
IGHV3-14*01_G110A_C/

2045 sequences assigned
237 (11.6%) exact matches, in which:
199 unique CDR3
6 unique J



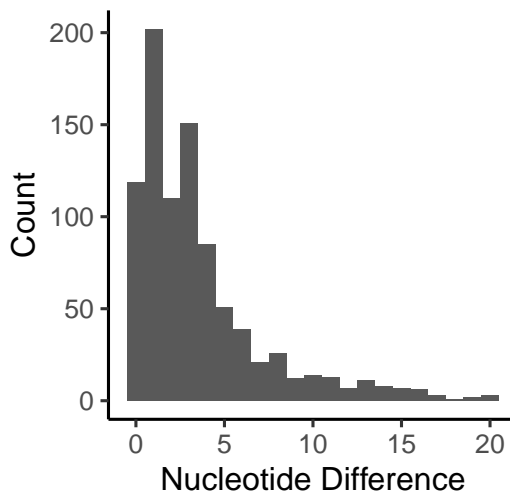
IGHV7S3*01

637 sequences assigned
No exact matches.



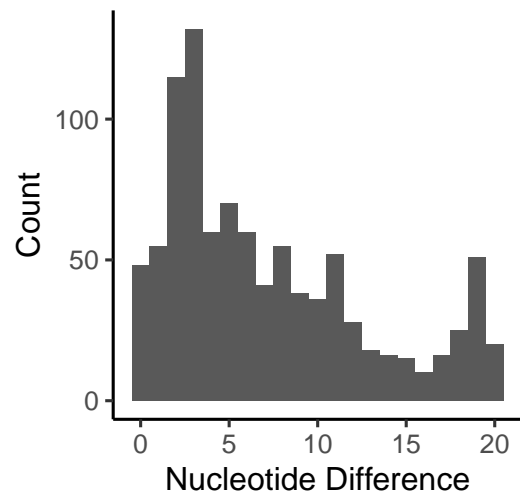
IGHV3-7*01_C167T_A17

1051 sequences assigned
119 (11.3%) exact matches, in which:
101 unique CDR3
6 unique J



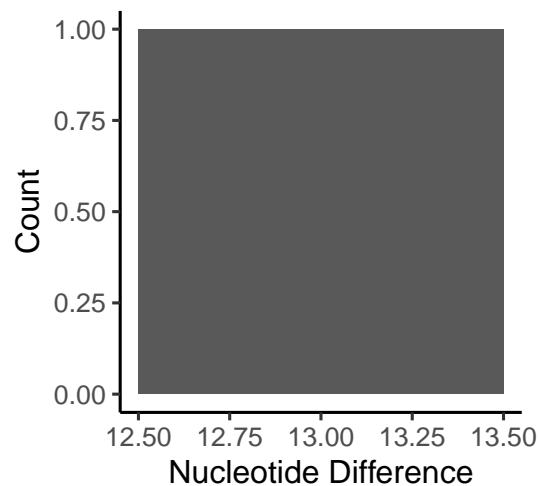
IGHV3-20*01_A169G_G/

1027 sequences assigned
48 (4.7%) exact matches, in which:
39 unique CDR3
5 unique J



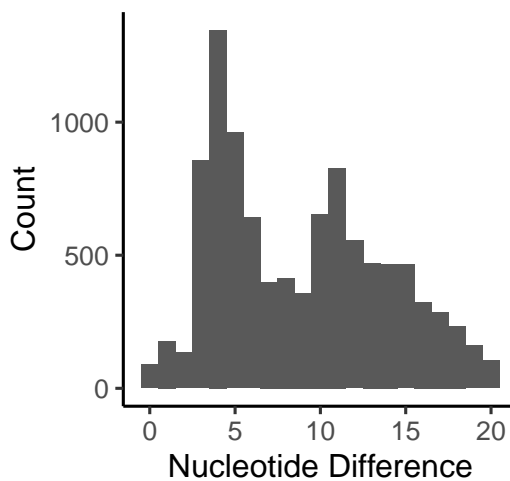
IGHV7S9*01

1 sequences assigned
No exact matches.



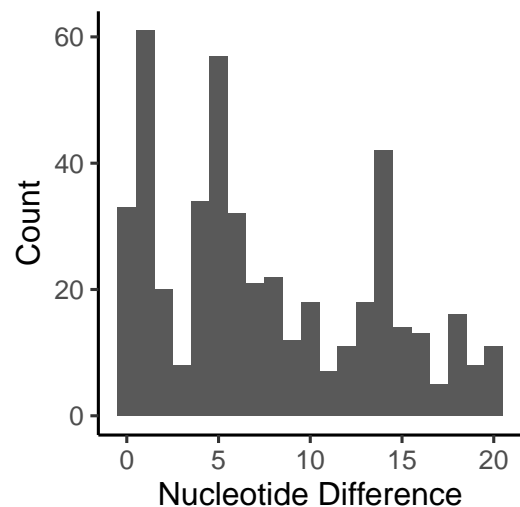
IGHV3-9*01_C78T_G12

10974 sequences assigned
89 (0.8%) exact matches, in which:
74 unique CDR3
6 unique J



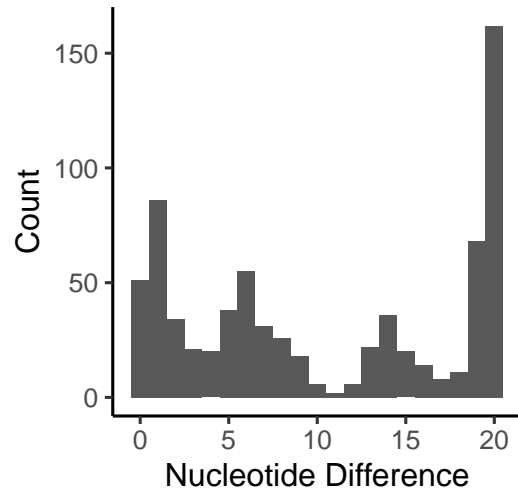
IGHV3-22*01_A39C_G48

768 sequences assigned
33 (4.3%) exact matches, in which:
31 unique CDR3
4 unique J



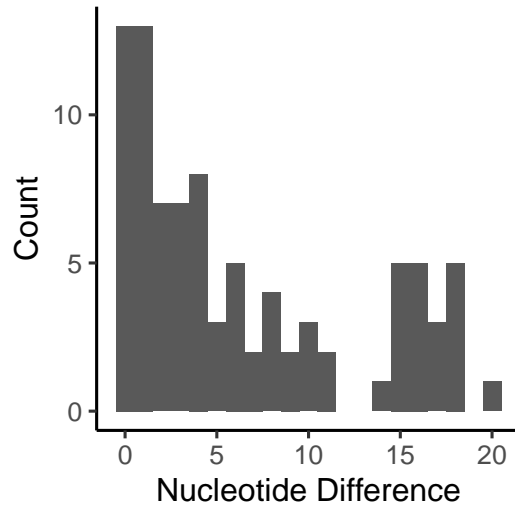
IGHV3-22*01_C10T_A22

1329 sequences assigned
51 (3.8%) exact matches, in which:
45 unique CDR3
6 unique J



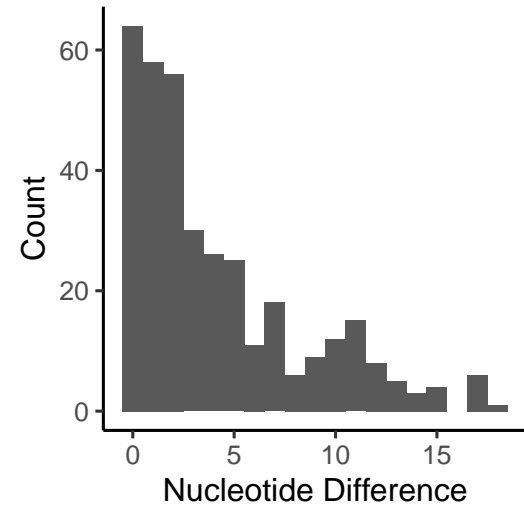
IGHV4-2*01_C4G_C90T_

93 sequences assigned
13 (14%) exact matches, in which:
13 unique CDR3
5 unique J



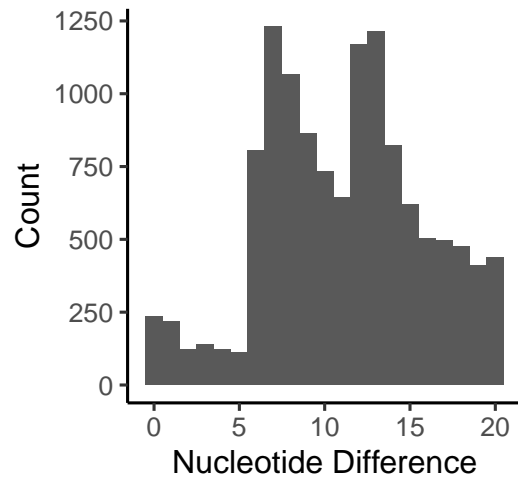
IGHV6-1*01_G233C_G28

361 sequences assigned
64 (17.7%) exact matches, in which:
59 unique CDR3
6 unique J



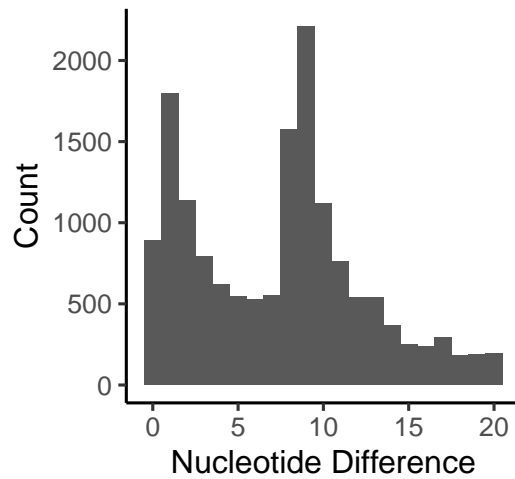
IGHV4-2*01_C4G_C173

15884 sequences assigned
234 (1.5%) exact matches, in which:
222 unique CDR3
6 unique J



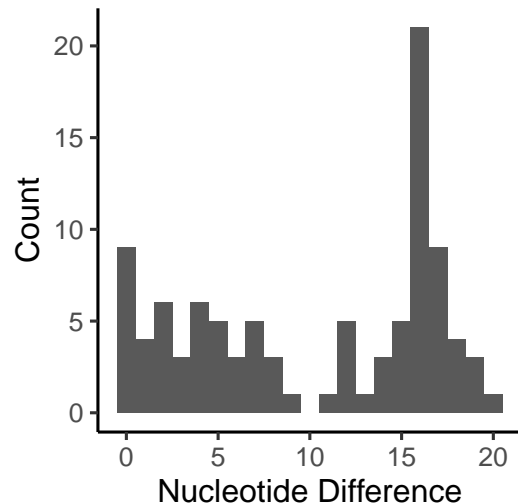
IGHV5-2*01_G51A_A59G_G166A_C167T_T171C_G172

16382 sequences assigned
889 (5.4%) exact matches, in which:
671 unique CDR3
6 unique J



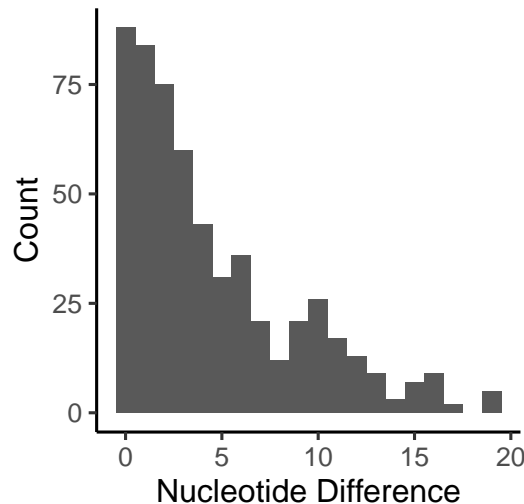
IGHV4-2*01_C4G_C90T_

109 sequences assigned
9 (8.3%) exact matches, in which:
9 unique CDR3
4 unique J

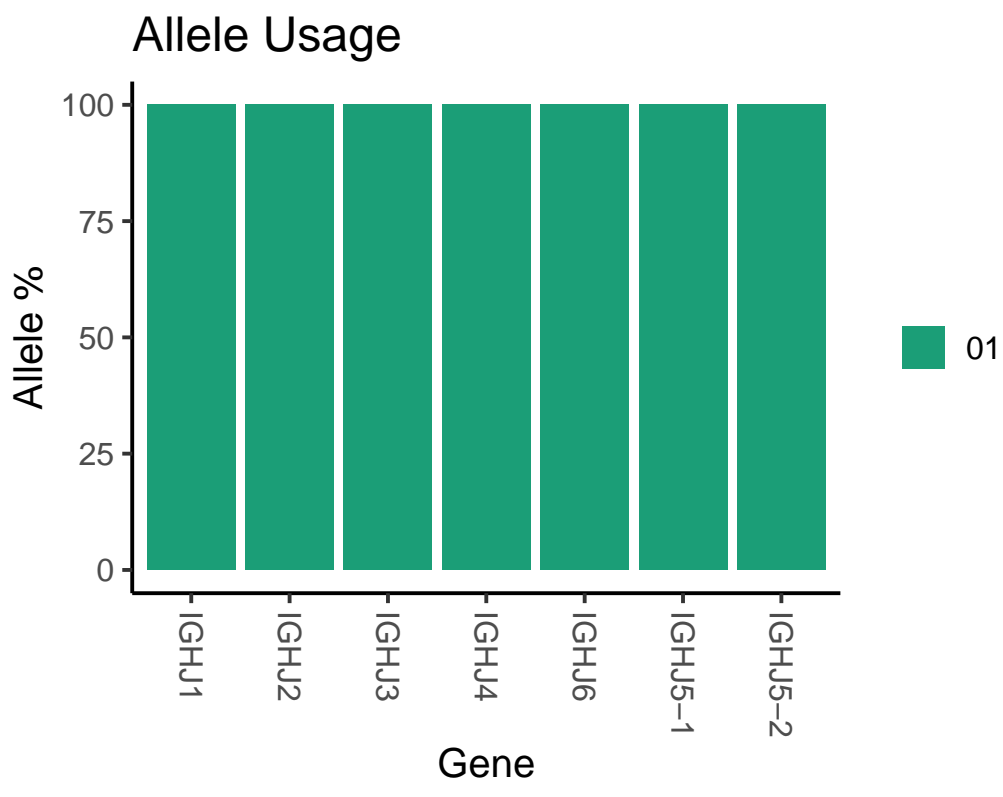


IGHV6-1*01_G233C

564 sequences assigned
88 (15.6%) exact matches, in which:
71 unique CDR3
6 unique J



_C166T_G167A_C173A_C201A



Warning – no inferred sequences found.