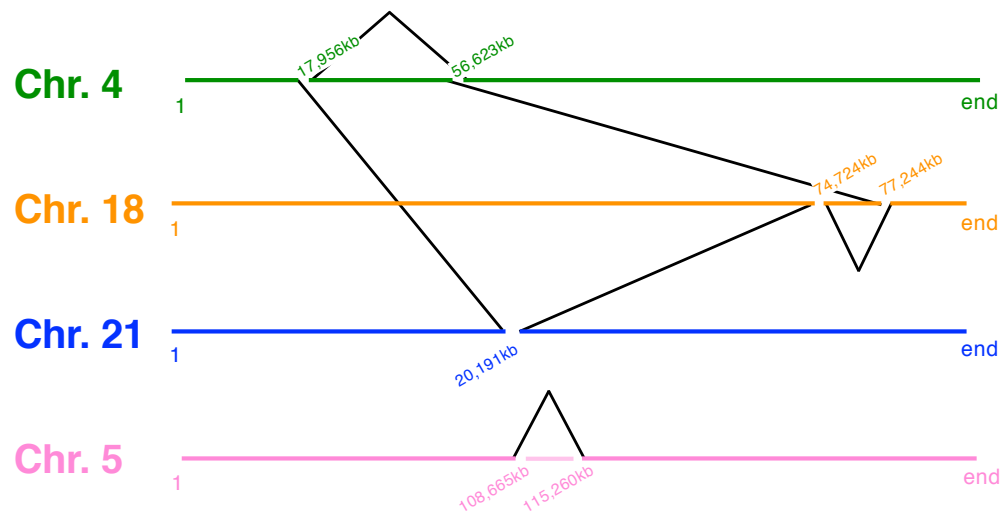
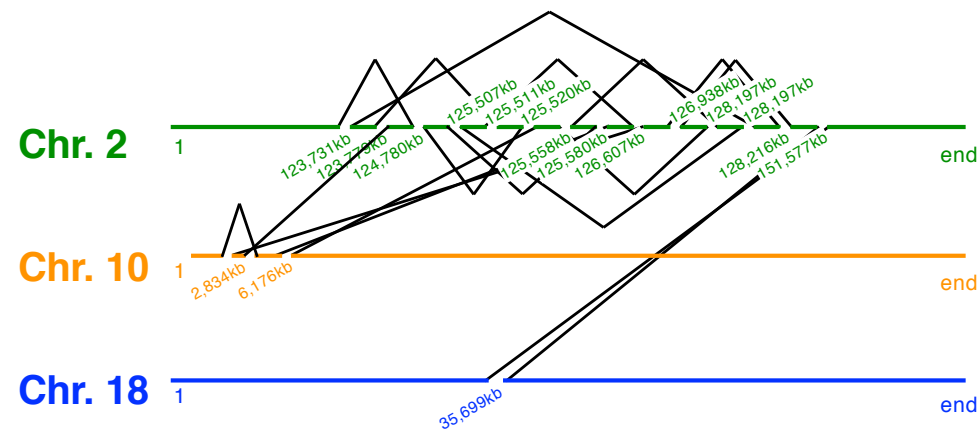
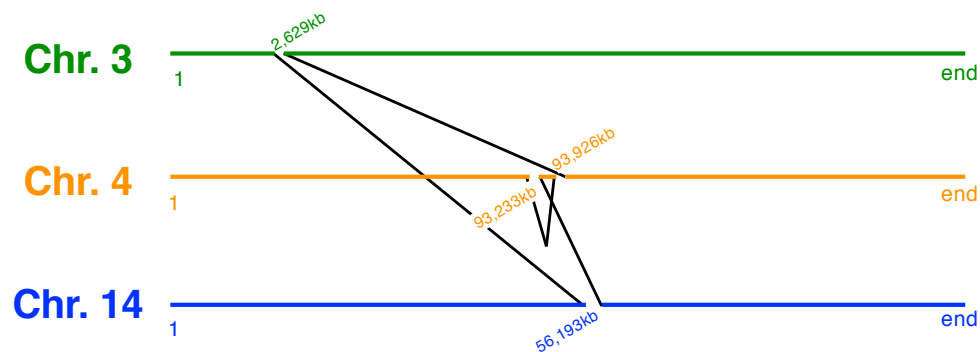




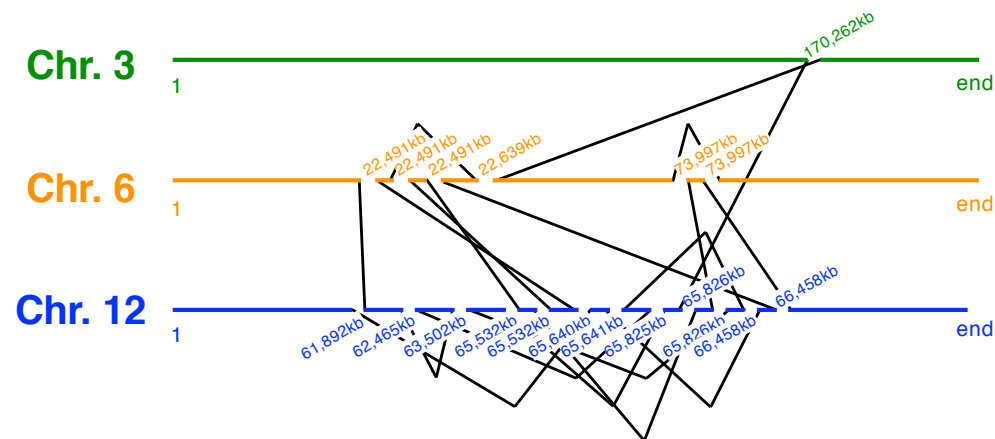
Case 4, FHU15-242



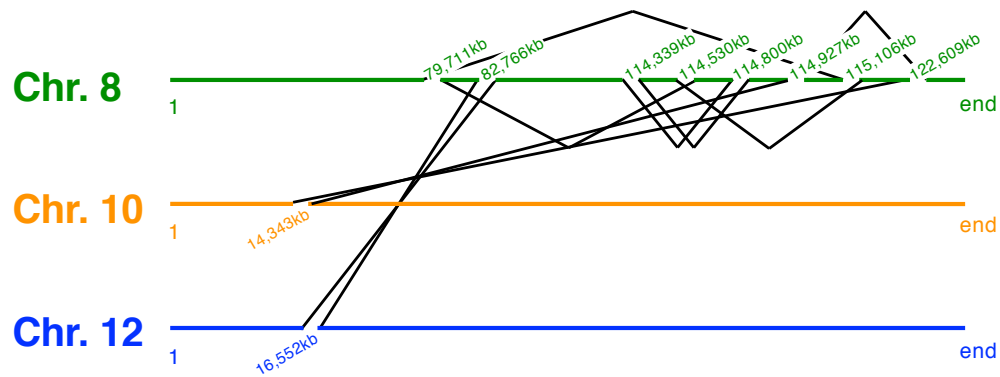
Case 6, FHU18-163



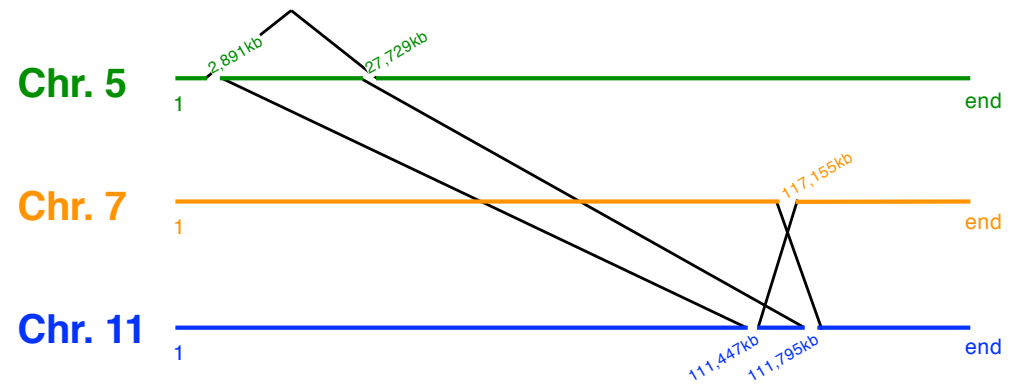
Case 7, FHU19-162



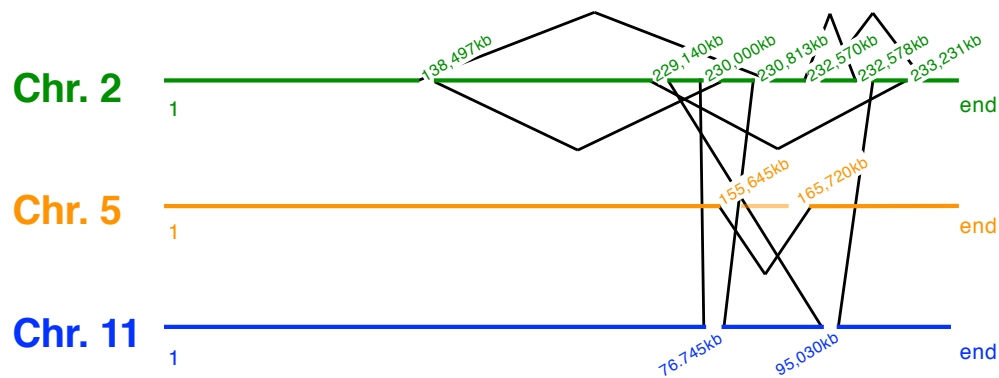
Case 8, FHU19-192



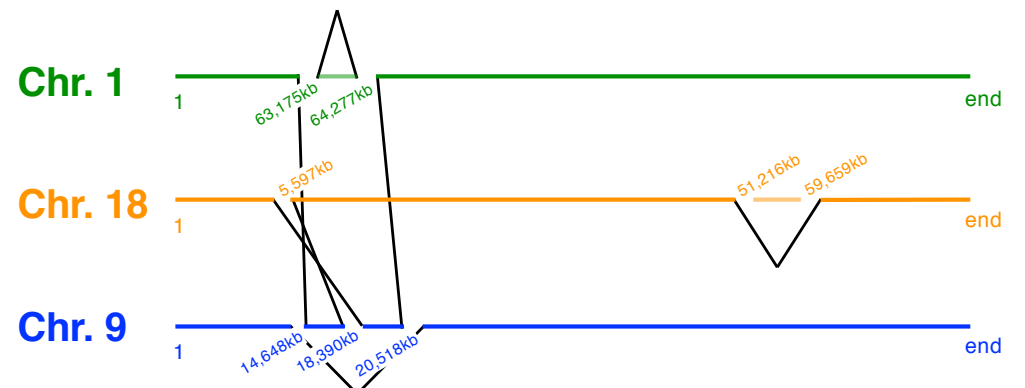
Case 10, FHU14-133



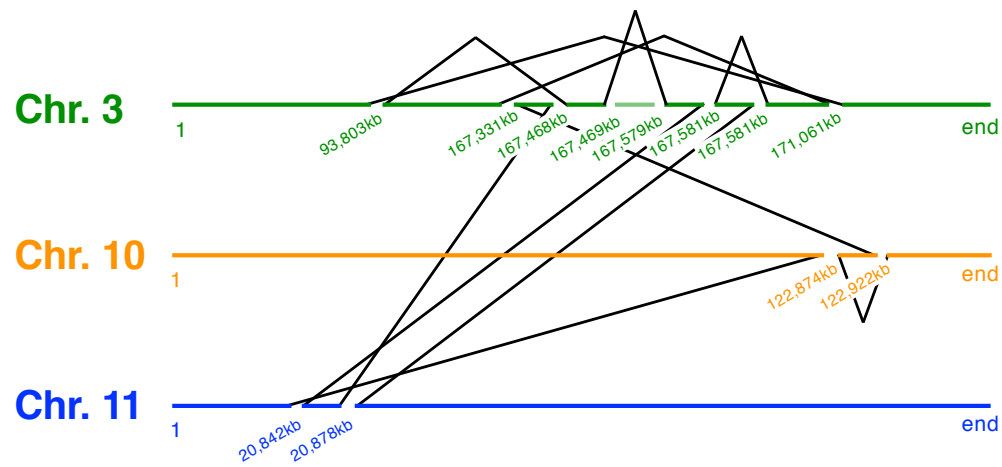
Case 11, FHU15-147



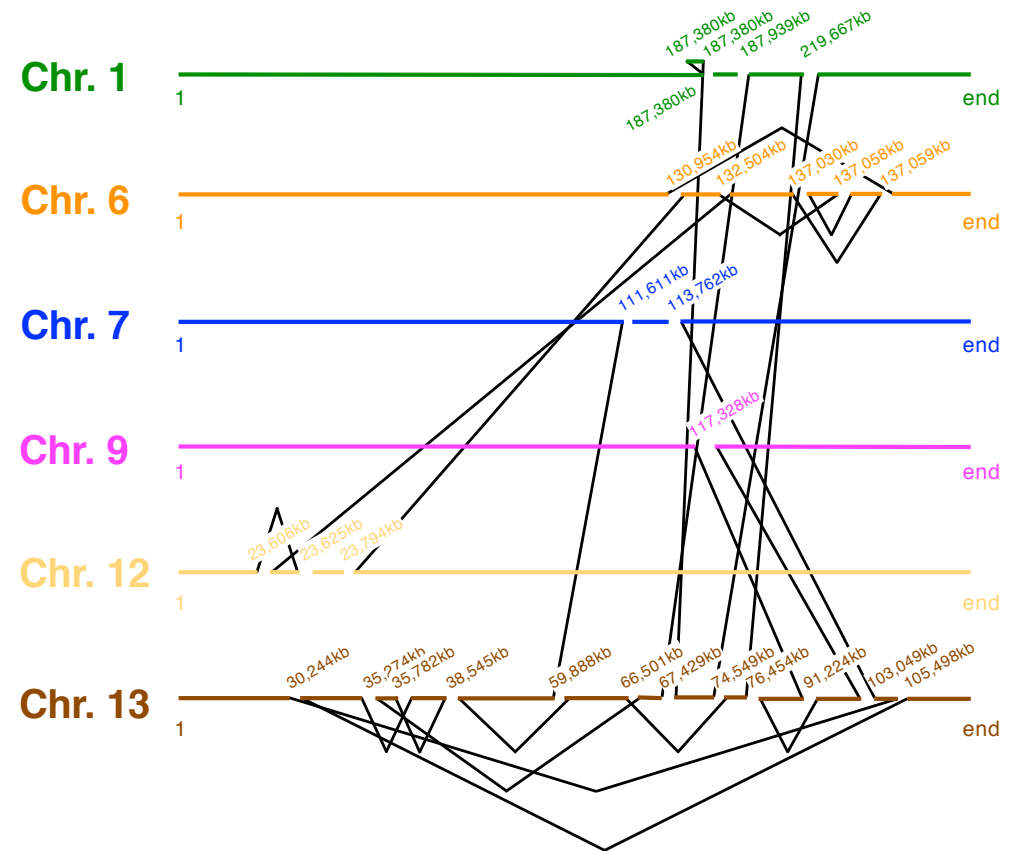
Case 12, FHU17-112



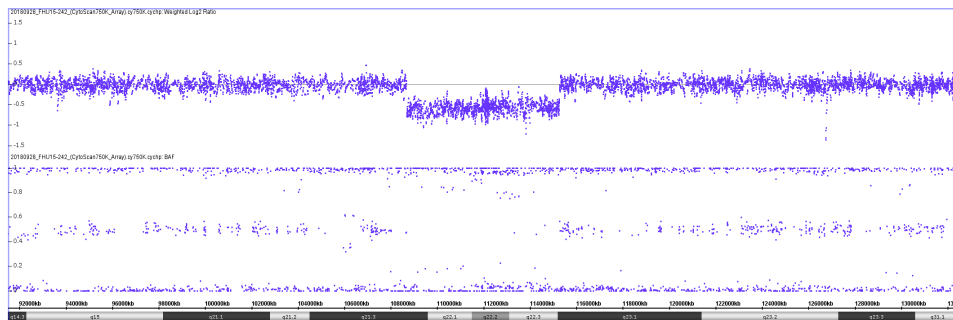
Case 13, FHU17-282



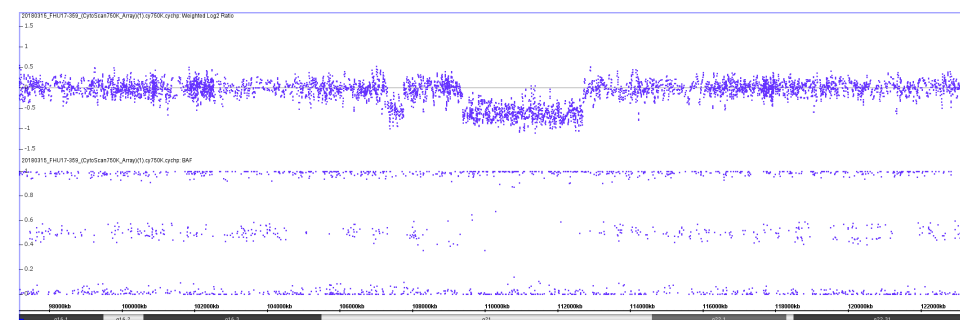
Case 14, FHU18-275



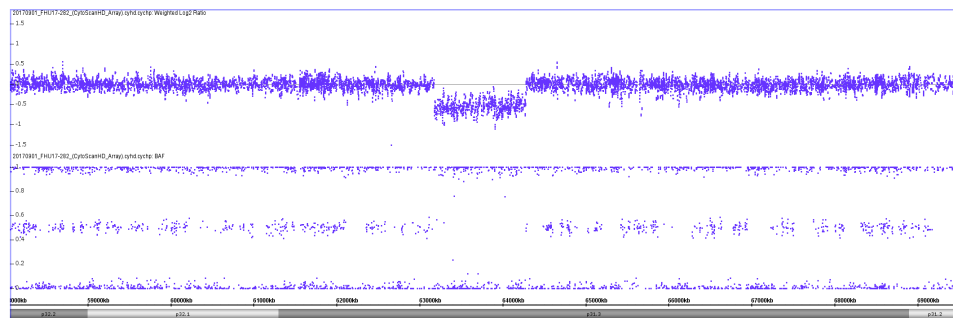
Case 9, FHU20-098



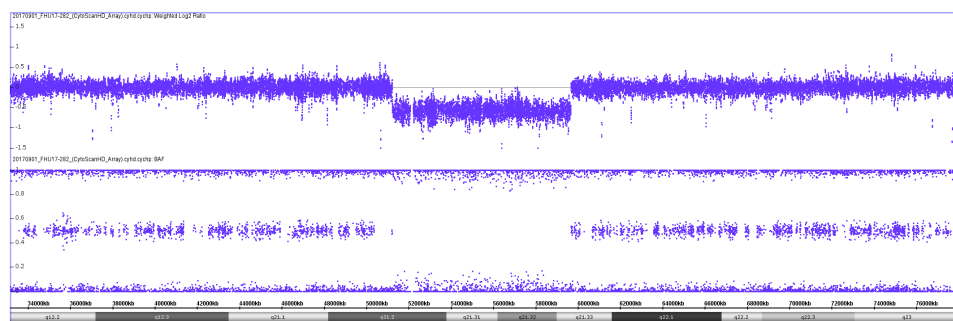
Case 4, FHU15-242, chromosome 5



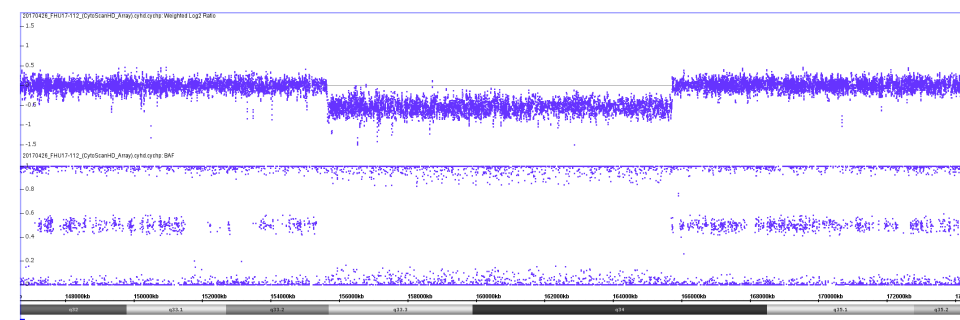
Case 5, FHU17-359, chromosome 6



Case 12, FHU17-112, chromosome 5



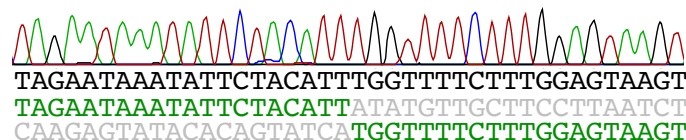
Case 13, FHU17-282, chromosome 1, 18



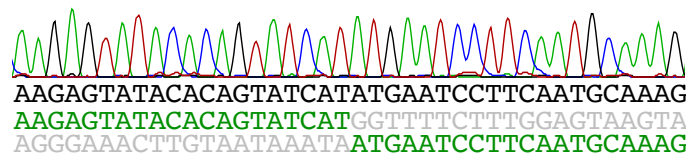
Case 14, FHU18-275, chromosome 3

A

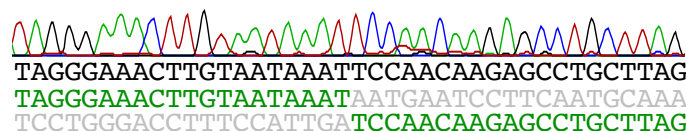
BP32



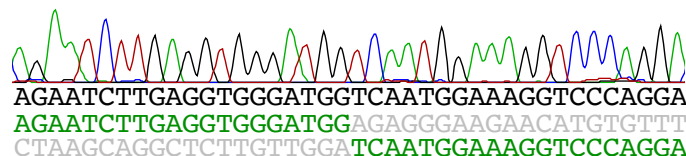
BP33



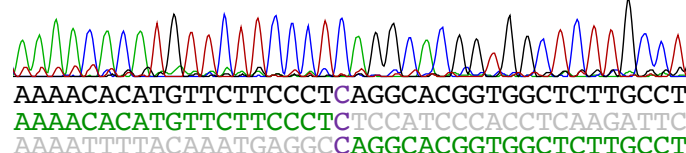
BP34



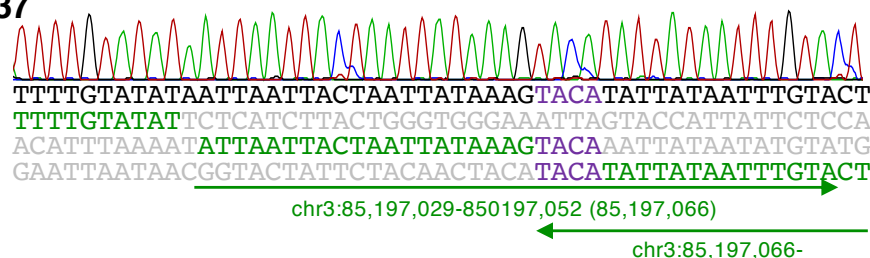
BP35



BP36



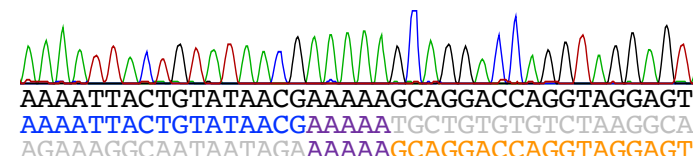
BP37



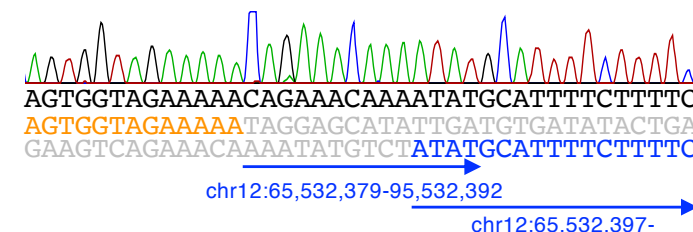
Case 3, FHU15-170

B

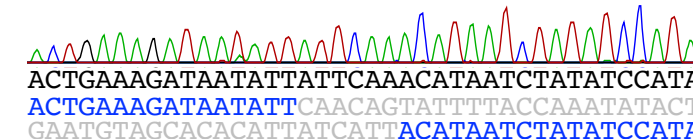
BP11-1



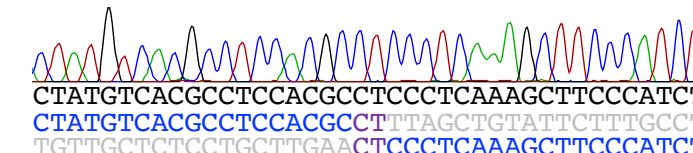
BP11-2



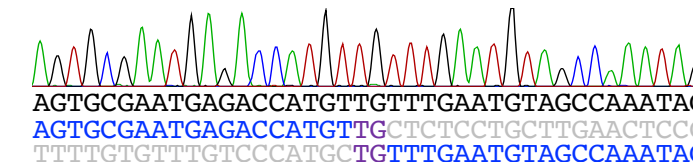
BP11-3



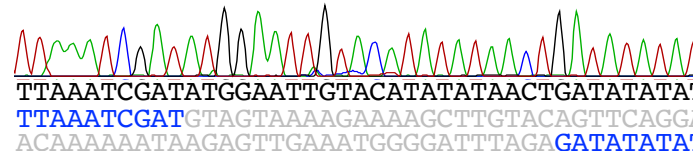
BP13



BP14



BP15



Case 8, FHU19-192

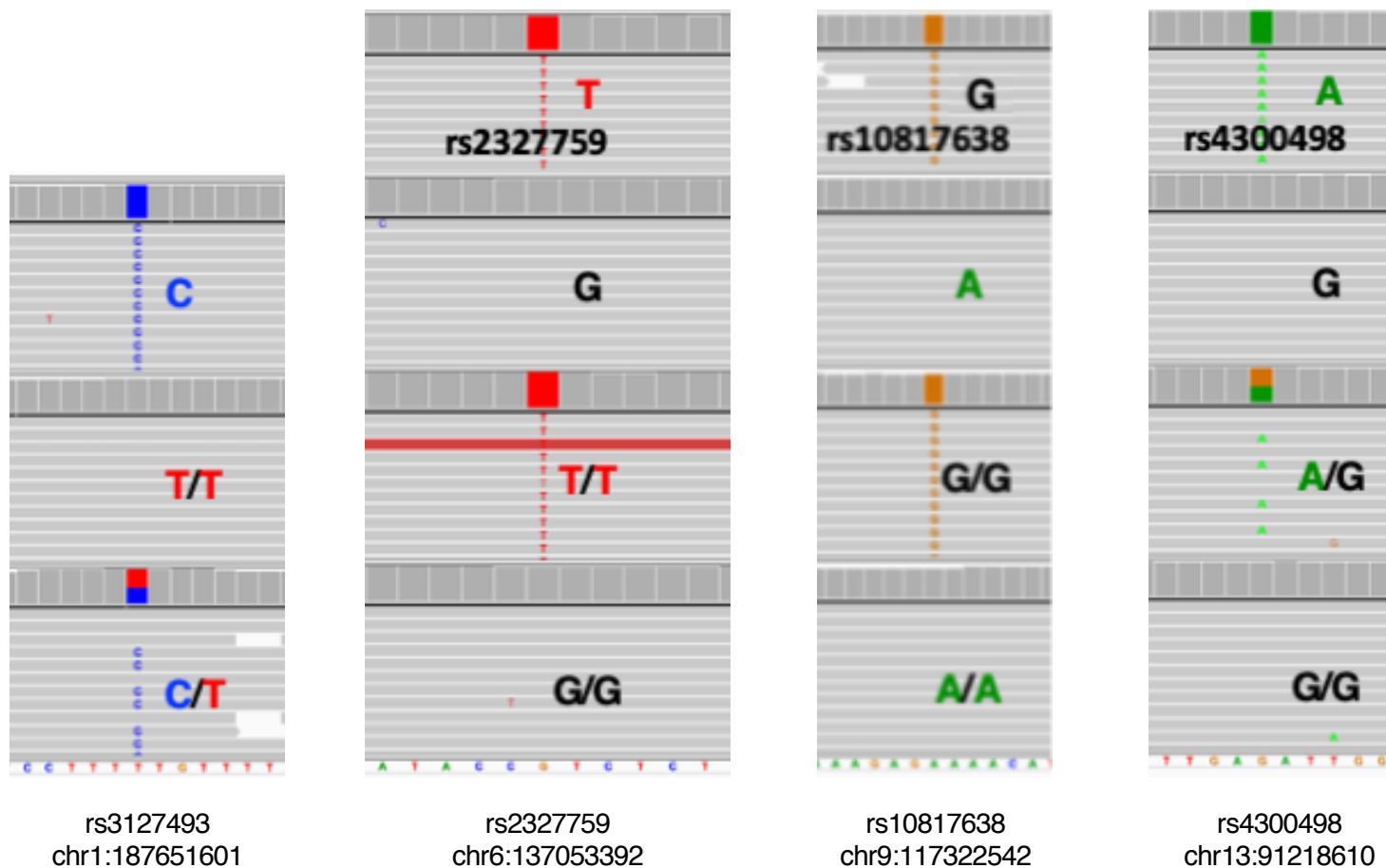
Supplementary Figure 3

Proband
Derivative chromosome

Proband
Normal chromosome

Father

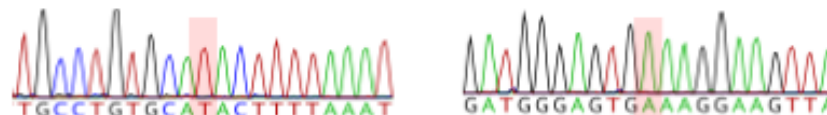
Mother



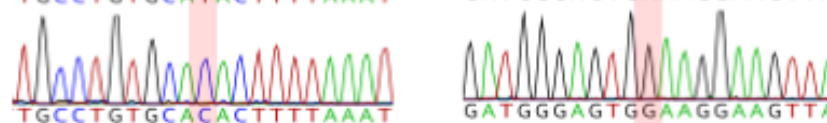
Case 9, FHU20-098

Supplementary Figure 4

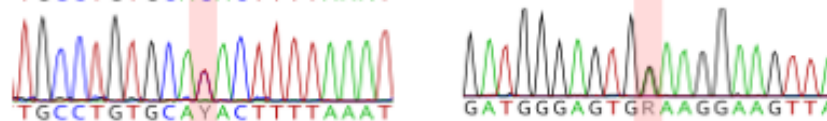
Proband
Normal chromosome



Father



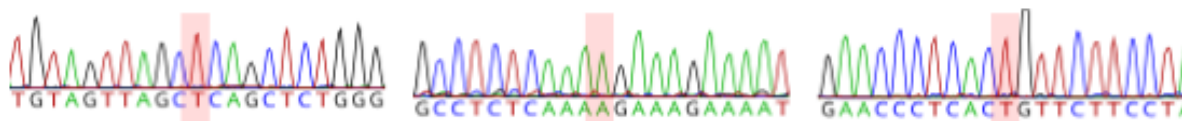
Mother



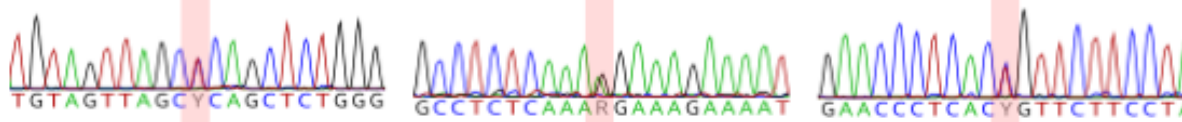
rs191881931
chr7:112669600

rs146833863
chr7:113394515

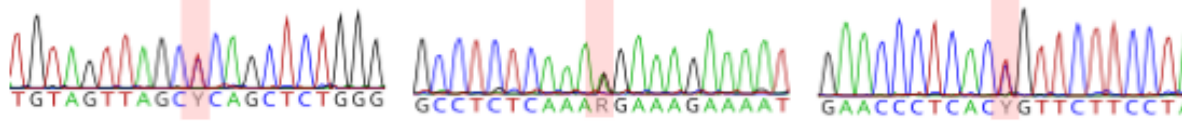
Proband
Normal chromosome



Father



Mother

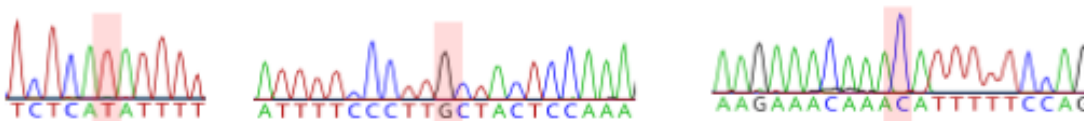


rs79996473
chr12:23651020

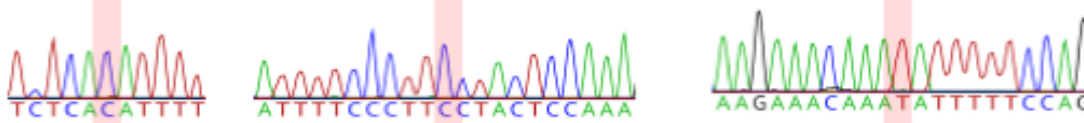
rs79438169
chr12:23692125

rs74353685
chr12:23667743

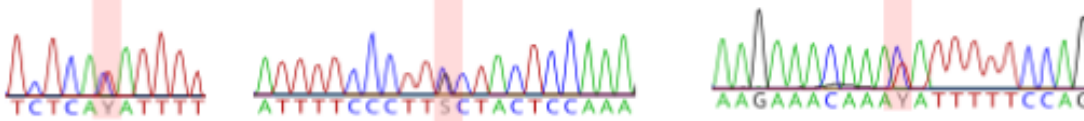
Proband
Normal chromosome



Father



Mother



rs7303261
chr12:23640295

rs10842193
chr12:23774816

rs11047006
chr12:23775527

Case 9, FHU20-098

Supplementary Figure 4