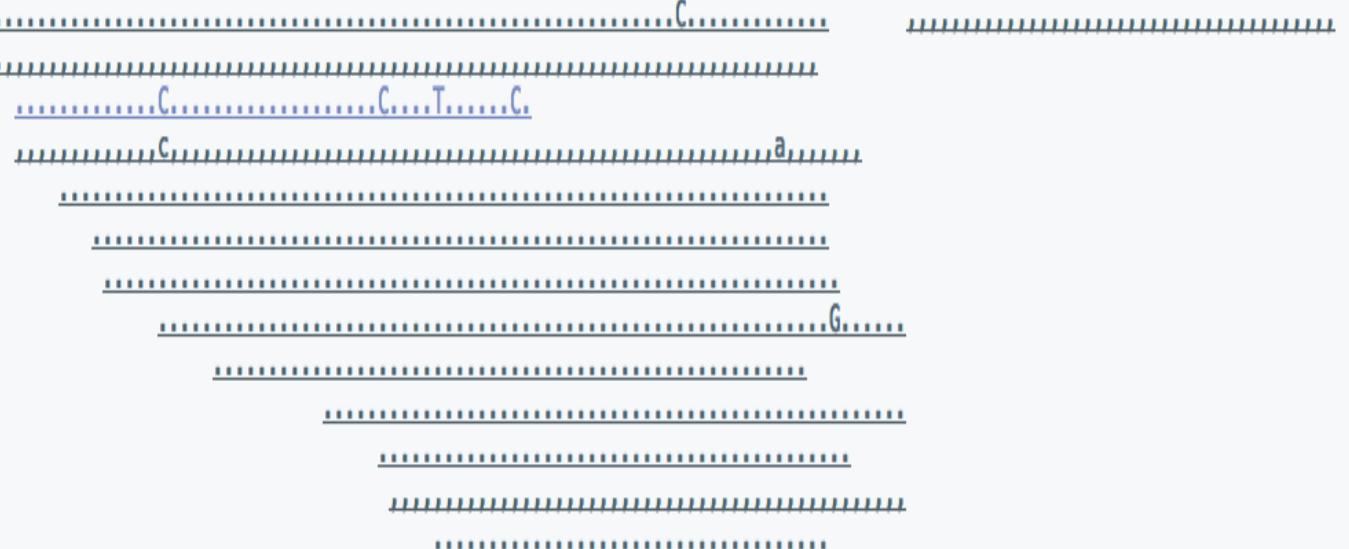


**Supplemental Figure 2. Alignments between scaffolds containing more than one disagreement with the BEAT consensus sequence, the BEAT consensus, and the human reference.** Scaffolds that meet these criteria were found to belong to two categories: likely paralogs, and possible assembly errors. Paralogs are indicated when the entire sequence can be reconstructed from shotgun sequence reads, while assembly errors are marked by regions of scaffold-read disagreement. All alignments to scaffolds shown were conducted with BWA-MEM (Li 2013), and used only the original reads from Perry, Reeves et al. (2012). Titles with a light blue border indicate likely paralogs, while titles with a red border indicate possible assembly error.

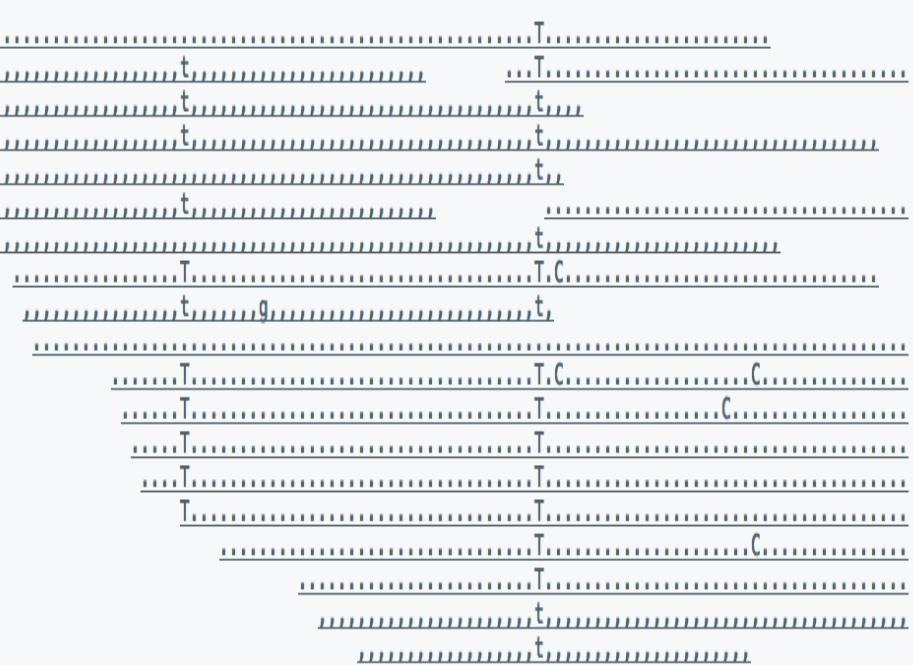
## CDH23 Scaffold with disagreement 1

Human	CCTCTACGGTGCTCAATGGGCCATCCTGGCCCTGGATGCAGACCAAGACATCTACGCCGTGGTACCTACCAGCTGCTGGGTGCCAGAGTGGCCTTTGACATCAACAGCAGCACCGGT
BEAT	CCCCCTACGGTGCTCAATGGGCCATCCTGGCCCTGGATGCAGACCCAGGACATCTACGCCGTGGTACCTACCAGCTGCTGGCACCAGAGTGGCCTTTGACATCAACAGCAGCACGGCG
Scaffold	1 11 21 31 41 51 61 71 81 91 101 111 121 CCCCCTACGGTGCTCAATGGGCCATCCTGGCCCTGGATGCAGACCCAGGACATCTACGCCGTGGTACCTACCAGCTGCTGGCAGCTTCCGATCTTTTGACATCAACAGCAGCACGGTGN  
BWA alignment to scaffold	

## CDH23 Scaffold with disagreement 2

## KCNQ4 Scaffold with disagreement

## OTOF Scaffold with disagreement 1

Human	GCCGCTTCCCTCCCTCGCTGACAAGGACCAGGGCCACTCATCCGCACCAGGCTGACCGGGAGGCCCTAAGTCCTGCATGAGGGAGCTGG
BEAT	GCCGCTTCCCTCCCTCGCTGACAAGGACCAGAGCCACTCGTCCCGCACAGGCTGACCGGGAGGCCCTAAGTCCTGCATGAGGGAGCTGG
Scaffold	1      11     21     31     41     51     61     71     81     91 GCCGCTTCCCTCCCTCGCGACAAGGACCAGAGCCACTCGTCCCGCACAGGCTGGACCGGGAGGCCCTAAGTCCTGCATGAGGGAGCTGGNNNN  <pre>           ..T.....            ...t...T...            ...t...t...            ...t...t...            .....t...            .....t...            .....T...T.C.            .....t...q...t...            .....T.....T.C.....C..            .....T.....T.....C..            .....T.....T..            .....T.....T.....C..            .....T.....T..            .....t...t...         </pre>
BWA alignment to scaffold	

## OTOF Scaffold with disagreement 2

Human	AGCCCAGCACAGCATCCGACATCTCATCTGGATGATGAGCAACAACAAGCGTGCCTATGCCGTGCCCCAAGGACCTGCTTCTCCATGTGGAGGAGACTGGCAAGGACTGCAGCAAGGTCAAGACGCTCTCTTAAGCTGCCA
BEAT	AGCCCAGCACAGCATCCCGACGTCTCATCTGGATGATGAGCAACAACAAGCGCATGCCATTGACACGGTCCCCAAGGACCTGCTTCTCCATGTGGAGGAAGAGATGGCAAGGACTGTGCCAAGGTCAAGACACTCTCTCAAGCTGCC
Scaffold	1 11 21 31 41 51 61 71 81 91 101 111 121 131 141 151 161 AGCCCAGCACAGCATCCCGACGTCTCATCTGGATGATGAGCAACAACAAGCGCATGCCATTGACACGGTCCCCAAGGACCTGCTTCTCCATGTGGAGGAAGAGATGGCAAGGACTGTGCCAAGGTCAAGACACTCTCTCAAGGTGCCNNNN  
BWA alignment to scaffold	

## OTOF Scaffold with disagreement 3

# PCDH15 Scaffold with disagreement

# SLC26A5 Scaffold with disagreement

# TMC1 Scaffold with disagreement