

## Appendix C. Genomic Medicine Assistant Demo Multi-Gene Panel Laboratory Reports

Figure C.1 Pharmacogenomic Sequencing Panel Report - Results Page (*CYP2C19*)

### Genomic Medicine Assistant

#### Pharmacogenomic Sequencing Panel Report

[Results](#)[Test Information](#)

Patient	Mouse, Mickey	Specimen Type:	Whole Blood
Patient DOB	06/15/1945	Collection Date:	04/22/2015
Ordering Provider	Dr. Seuss	Received Date:	04/22/2015
Institution:	Disney Medical Center	Lab Accession No.	600254

---

**Indication:** 50-year-old man with an acute myocardial infarction status post drug-eluting stent.  
This individual has results from a multi-gene sequencing panel that is being used to optimize drug therapy.

#### Variants

Gene	Variant	Clinical Significance
<i>CYP2C19</i>	c.681G>A (rs4244285); homozygous (*2/*2)	POOR METABOLIZER May be unable to effectively metabolize drug

#### Interpretation Summary

This genotype is predicted to function as a poor metabolizer which is associated with significantly reduced metabolic activation of and response to clopidogrel (Plavix).

#### Recommendations

Based on Clinical Pharmacogenetic Implementation Consortium (CPIC) Guidelines, recommendations are to consider **USING ALTERNATIVE THERAPIES**; prasugrel 10mg daily OR ticagrelor 90mg BID.  
Contact the Pharmacogenomic Counseling Service for additional information at 123-456-7890

**Signed by:** Walt Disney, PhD, FACMG  
**Report date:** June 2, 2015

[Return to inbox](#)

Genomic Medicine Assistant, 2016©

While the investigators in the study have made every effort to ensure that the information presented is consistent with current practices, all information presented was prepared for simulated conditions and may not reflect all aspects of standard medical care.

Figure C.2 Pharmacogenomic Sequencing Panel Report - Test Information Page (*CYP2C19*)

Genomic Medicine Assistant

Pharmacogenomic Sequencing Panel Report

Results

Test Information

Patient	Mouse, Mickey	Specimen Type:	Whole Blood
Patient DOB	06/15/1945	Collection Date:	04/22/2015
Ordering Provider	Dr. Seuss	Received Date:	04/22/2015
Institution:	Disney Medical Center	Lab Accession No.	600254

Test Methods and Limitations

Pharmacogenomic Sequencing Panel

A sequencing panel of 84 genes known to be involved in drug metabolism was performed using the MiSeqDxTMA technology (Illumina, San Diego, CA). The panel was designed to identify DNA sequence variants relevant to drug therapy decisions and to cover all coding regions plus at least 10 bp upstream and downstream. Only pathogenic or likely pathogenic variants are reported; variants of unknown significance are not returned.

Genes to be sequenced include GN01, GN02, GN03, GN04, GN05, GN06, GN07, GN08, GN09, GN10, GN11, GN12, GN13, GN14, GN15, GN16, GN17, GN18, GN19, GN20, GN21, GN22, GN23, GN24, GN25, GN26, GN27, GN28, GN29, GN30, GN31, GN32, GN33, GN34, GN35, GN36, GN37, GN38, GN39, GN40, GN41, GN42, GN43, GN44, GN45, GN46, GN47, GN48, GN49, GN50, GN51, GN52, GN53, GN54, GN55, GN56, GN57, GN58, GN59, GN60, GN61, GN62, GN63, GN64, GN65, GN66, GN67, GN68, GN69, GN70, GN71, GN72, GN73, GN74, GN75, GN76, GN77, GN78, GN79, GN80, GN81, GN82, GN83, and GN84 that are known to be associated with drug metabolism.

Limitations

This assay will not detect large deletions or duplications, variants in genes or regions not included on the panel or in areas of inadequate coverage, or low-level mosaicism. Only variants classified according to the ACMG criteria as pathogenic and likely pathogenic will be reported. Sequencing technology is continually evolving, and the interpretation of genetic findings may change over time.

DISCLAIMER

This test was developed and its performance characteristics determined by the University of Schrek Genomics Laboratory. It has not been cleared or approved by the FDA. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing. This test is for clinical purposes. It should not be regarded as investigational or for research.

Testing Performed at:

University of Schrek Genomics Laboratory  
12345 Fantasy Road  
Orlando, FL 56789  
123-234-3456

Return to inbox

Genomic Medicine Assistant, 2016©

While the investigators in the study have made every effort to ensure that the information presented is consistent with current practices, all information presented was prepared for simulated conditions and may not reflect all aspects of standard medical care.