SeraCare Inherited Disease Solutions Overview

REFERENCE MATERIALS FOR NGS-BASED INHERITED DISEASE ASSAYS

SeraCare has a wide selection of pathogenic, expert-designed variants and variant types, patient-like sample performance, easy-to-use purified nucleic acid format, and precise control over mutation frequencies to properly develop, validate, and monitor inherited disease assays.

COMPREHENSIVE SOLUTIONS FOR EVERY PHASE

Assay Development

Relevant, customizable and **stable** materials with **valuable mutations** and **variant types**

Assay Validation

Readily available, patient-like materials to validate your **workflow**

Lab QC Operations

Reliable materials that are **easy to use, consistent** and **cost effective**

SERASEQ™ SEQUENCING REFERENCE MATERIALS

Are you looking for a variety of actionable variants not readily available in traditional references, such as NA12878, to expedite assay development and validation?
We work with renowned clinical laboratory experts to develop disease-specific reference materials with clinically relevant variants.

	# of variants	Single nucleotide variants (SNVs)	Small (<10 bp) insertion-deletions (INDELs)	Large (>10 bp) insertion-deletions (INDELs)	Structural variants (SVs)
Inherited cancer	22	✓	✓	✓	
Cardiomyopathy	10	✓	✓	✓	
Custom	Flexible	✓	✓	✓	✓

KEY FEATURES AND BENEFITS

- Expedite assay development with a ready source of disease-specific variants
- Save $1,000s in sequencing and validation costs with multiplexed configurations
- Assess common, rare, and technically challenging variants
- GM24385 (Genome in a Bottle) human genomic DNA as wild-type background
- Manufactured in GMP-compliant, ISO 13485-certified facilities
- Customizable to cover desired variants (from our pre-defined library or specified by the user)

TARGET GENES COVERED BY SERASEQ INHERITED DISEASE PRODUCTS

BRCA1	MSH6	MSH2	PMS2
BRCA2	MLH1	CDKN2A	MYBPC3
MYH7	TNNI3	TNNT2	TPM1

Note: Refer to specific product sheets for a detailed list of variants

CUSTOMER PUBLICATION

A group at the Laboratory of Molecular Medicine, Harvard Partners Healthcare at the Massachusetts General Hospital published an article on their collaboration with SeraCare to design a multiplexed reference material for their NGS-based hypertrophic cardiomyopathy assay.

Visit **www.seracare.com/inherited** to access the publication and for further details about our portfolio of products for inherited disease assays.

Product Listing

Catalog Number	**Product**
0730-0003*	Seraseq Inherited Cancer DNA Mix v1
0740-0021	Seraseq Cardiomyopathy Reference Material v1
Custom	Seraseq Custom (covering desired variants)

*Product in development and targeted to launch in Q1 2017

About SeraCare

SeraCare is a trusted partner and worldwide supplier to the diagnostic testing industry for over 30 years, advancing the development of molecular and serology diagnostics with innovative technology, quality controls, reagents, and biological materials. As an ISO 13485-certified manufacturer with advanced molecular manufacturing and packaging capabilities, SeraCare is a leader in reference materials to enable the promise of precision medicine and ensure correct results for NGS-based test providers. Visit **www.seracare.com/inherited** to learn more.