

# Seraseq<sup>®</sup> gDNA HRD Mutation Mixes

Comprehensive reference materials for development, validation and clinical application of targeted NGS assays evaluating genomic instability resulting from HRD

## INTRODUCTION

Genomic instability resulting from homologous recombination DNA repair deficiency (HRD) is a response biomarker to assess ovarian and breast cancer patient eligibility for PARP inhibitor and platinum-based therapies. HRD measurements have the potential to improve cancer therapy, however standardizing and democratizing HRD measurements remains challenging due to their inherent complexity.

SeraCare has developed contrived cell line-derived HRD reference materials to support the development, validation, and routine use of assays determining HRD status in cancer patients.

### **FEATURES**

- Derived from tumor and matched-normal human cell lines
- Allows blending to desired % tumor content with included SNP-matched normal cell line gDNA
- 20 μL of both tumor and matched normal gDNA at 25 ng/μL
- Additional biosynthetic single-nucleotide variants (SNVs) of 4 homologous recombination repair (HRR) genes
- HRD status validated by targeted Next Generation Sequencing (NGS)
- Manufactured in GMP-compliant, ISO 13485-certified facilities

Product	GIS*
Seraseq HRD gDNA High-Positive Mix +	72
Seraseq HRD gDNA Low-Positive Mix	58
Seraseq HRD gDNA Negative Mix +	33

+ Includes HRR gene variants at VAF 10-50%

See the Package Insert for more details.

\*200 ng of gDNA (a blend of 180 ng tumor and 20 ng of matched normal) was assigned a Genomic Instability Score (GIS) using Illumina TruSight™ Oncology (TSO) 500 HRD RUO assay which calculates a GIS using an algorithm licensed from Myriad Genetics. Batch-specific GIS score information is provided on the Technical Product Report, this product sheet reflects representative measured values

# **HIGHLIGHTS**

Reference material validated by NGS HRD assays

Derived from tumor and matched-normal human cell lines

High-quality manufactured reference material in mutation mix format





#	Gene ID	HGVS	Protein Variant	
1	ATM	c.208A>T	p.K70*	
2	ATM	c.557del	p.L186fs	
3	BRIP1	c.107T>G	p.L36*	
4	BRIP1	c.157dup	p.S53Kfs*16	
5	RAD51C	c.242C>A	p.S81*	
6	RAD51C	c.338dup	p.G114Wfs*25	
7	RAD51D	c.271A>T	p.K91*	
8	RAD51D	c.392dup	p.N131Kfs*23	

#### BIOSYNTHETIC VARIANTS PRESENT IN SERASEQ HRD gDNA HIGH-POSITIVE MIX AND SERASEQ HRD gDNA NEGATIVE MIX

See the Technical Spreadsheet for more details.

# **ORDERING INFORMATION**

Product	Material #	Concentration	Fill	Mass
Seraseq <sup>®</sup> HRD gDNA High-Positive Mix	0710-2879			
Seraseq® HRD gDNA Low-Positive Mix	0710-2880	25 ng/µL	20 µL	500 ng DNA*
Seraseq® HRD gDNA Negative Mix	0710-2881			

\*Values are for each vial, note each kit contains one tumor and one matched normal vial of DNA. See the Technical Product Report for more details.

MKT-00946-01

To place an order, please contact us at +1.508.244.6400 and 800.676.1881 or email CDx-CustomerService@lgcgroup.com

### **ABOUT US**

SeraCare offers a comprehensive portfolio of reference materials for oncology and reproductive health, designed and manufactured to meet the precision demanded by NGS assays. The portfolio includes high quality ground-truth RNA, ctDNA and genomic DNA-based reference materials that are NGS platform agnostic for tumor profiling, immuno-oncology, liquid biopsy, NIPT and germline cancer assay workflows. **For more information visit seracare.com.** 



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