Seraseq® Carrier Screening DNA Mix

Assay validation and daily-run QC material for Expanded Carrier Screening

INTRODUCTION

Carrier screening is a type of genetic testing used to determine whether an individual carries a gene for a specific inherited disorder. With an estimated 1 in 4 people carrying a genetic disease, this test identifies carriers of autosomal recessive or X-linked genetic conditions, who might not show any symptoms themselves but can pass the disorder to their offspring. By understanding their genetic makeup, individuals or couples can make informed decisions about family planning and healthcare management.

Seraseq Carrier Screening DNA Mix is a highly multiplexed and comprehensive reference material to help clinical labs develop, characterize, validate, and routinely assess their expanded NGS carrier screening assays. It contains 54 clinically important SNVs, deletions and duplications occurring in inherited hemoglobinopathies, deafness, heart disease, immunodeficiency, neuromuscular and treatable metabolic disorders.

Not for *In Vitro* Diagnostic Use. Research Use Only.

FEATURES AND BENEFITS

- Develop and validate carrier screening based NGS assays with confidence using a highly multiplexed reference material containing important autosomal recessive disorders .
- Contains 54 clinically important variants from 48 genes associated with the most common monogenic disorders: Cystic Fibrosis, Spinal Muscular Atrophy (SMA), α- and β-thalassemia, congenital deafness, fragile X syndrome, sickle cell disease, Tay–Sachs disease, Gaucher disease, Phenylketonuria, Cardiomyopathy, Smith–Lemli–Opitz syndrome and many more.
- Variants are present within a single well-characterized genomic background (GM24385) at clinically relevant allele frequencies, precisely quantitated by digital PCR and orthogonally verified by NGS.
- Manufacturing of large batches with long shelf-life allows for repeated use of the same lot for validation, or assay performance assessment over time.

ORDERING INFORMATION

Material #	Product	Concentration*	Fill Volume	Total Mass
0730-0569	Seraseq® Carrier Screening DNA Mix	30 ng/µL	1 vial x 20µL	600 ng

HIGHLIGHTS

High-quality third-party QC material in mutation mix format to develop, validate, monitor, and troubleshoot your assay.

First-to-market reference material for expanded carrier screening.

Convenient highly multiplexed reference material in a single vial format to save time, cost, and increase QC consistency.

Ensure lot-to-lot consistency and a reliable supply with materials manufactured in GMP-compliant and ISO 13485-certified facilities.

ABOUT US

LGC Clinical Diagnostics offers a comprehensive portfolio of reference materials for oncology, reproductive health, and other genomic applications, designed and manufactured to meet the precision demanded by NGS and other molecular 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, inherited diseases and many other assays. **For more information visit seracare.com**

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