



# somalogic

## Transforming research and healthcare with industry-leading proteomics

SomaLogic technology fosters the discovery of new, effective and safer treatments for patients while empowering more accurate diagnosis, prevention and treatment of disease by measuring proteins. Through industry-leading proteomics, our assay currently measures 7,000 proteins— more than twice as many as other proteomic technology platforms. Typical protein assays measure, at most, 10% of the human proteome. The SomaScan® Assay measures approximately a third of the proteome, all from a 55 µl sample of serum or plasma.



### Why measure proteins?

#### Proteins signify health.

The proteins within the human body orchestrate the majority of biological processes. They give our cells structure, guide development, allow the body to move, help fight infection, transport molecules such as oxygen, and regulate complex systems such as blood sugar and mood. By measuring proteins at scale, we can identify patterns that signal fitness, aging and disease.

#### Proteins are dynamic.

The levels of proteins in the body are constantly changing in response to external factors such as diet, exercise, microorganisms, medications, and stress. Proteins are also the targets of almost all existing drugs. By measuring proteins, we can determine if treatments are working.

#### Proteomics is the key to understanding – and managing – health and disease *in real time*.

Each person has highly personalized, fluctuating levels of proteins that provide meaningful insights into both current health state and future disease trajectory.

#### Measuring proteins at scale enables:

- New drug target identification/validation
- Biomarker discovery & diagnostic development
- Insight into biological networks
- Accelerated drug development and patient selection
- Improved risk prediction

#### Real-time information

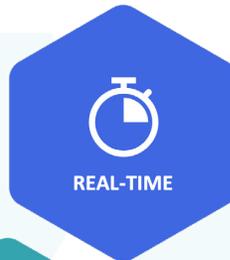
- Uncover better biomarkers and drug targets
- Identify changes in health status and risk
- Monitor treatment effects over time

#### Optimized clinical trials

- Select the right patients
- Detect subtle effects
- Measure adverse effects early

#### Deeper insights

- Detect off-target effects
- Mitigate risk to optimize successful trials
- Determine mechanism of action



## A key piece of a multiomic strategy

Genomics provides an overview of the complete set of genetic instructions provided by the DNA, while transcriptomics looks into gene expression patterns. Proteomics studies dynamic protein products and their interactions, while metabolomics provides understanding of an organism's metabolism.



### DNA

Hereditary material that encodes functional biological molecules



### mRNA

Molecule that carries DNA "directions" for protein synthesis



### Proteins

Primary functional and structural molecules for all biological processes

Increasing dynamics 

## How SomaLogic measures proteins

The SomaScan Assay uses Slow Off-Rate Modified Aptamers (called SOMAmer® reagents) to provide 7,000 highly reproducible protein measurements from a single sample of plasma, serum, or urine. What makes this technology different is:

### Unique reagents.

SOMAmer reagents are synthetic, ssDNA sequences with protein-like appendages that tightly bind a specific protein target

### Developed by SELEX.

Precise requirements for binding and specificity are controlled via a directed evolution process called SELEX

### For discovery & validation.

Unlike antibodies, SOMAmer reagents are consistent, enabling reliable reproducibility

## TECHNOLOGY

The SomaScan Platform is Optimized for Massive Scale

### Broadest Protein Coverage

The largest commercial proteomic assay on the market, providing 7,000 protein measurements.



### Lowest Coefficient of Variation

With average CVs of ~5%, the SomaScan Assay provides reproducible results for patient samples and healthy controls.

### 1,000+ Samples/Day

Our workflow is highly multiplexed with considerable controls to yield fast, accurate data.



### 10 Log Dynamic Range

Our unique approach detects very rare proteins and highly abundant proteins from the same samples simultaneously.

Start measuring 7,000 proteins today  
with SomaLogic technology.

Learn more at [somallogic.com](https://somallogic.com)

