



# **Human Telomere Length Real Time PCR Detection Kit**

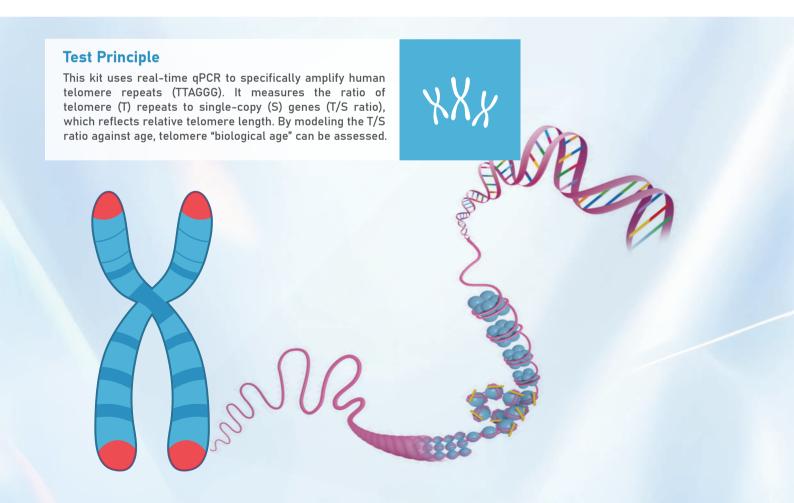
# Real-Time Quantitative PCR Assay

### What are telomeres

Telomeres are specialized DNA-protein structures located at the ends of human chromosomes. They protect genetic material and ensure chromosome stability. Each time a cell divides, telomeres gradually shorten, acting like a "biological clock" that limits a cell's lifespan. When telomeres become critically short, cells lose their ability to divide and eventually enter senescence or die.

### **Telomere Length and Aging**

Telomere length is a powerful biomarker of aging. Shortening with each cell division, telomeres reflect both cellular lifespan and overall health. Genetics, environment, and lifestyle all play a role in this process. By measuring telomere length, we can better understand our "cellular age" and take steps to adjust lifestyle habits—helping slow aging and promote healthier living.





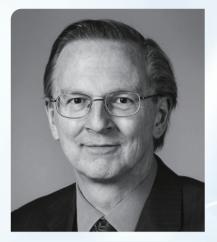
• The 2009 Nobel Prize in Physiology or Medicine: awarded for their contributions to the study of telomeres and telomerase



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## **Application Scenarios**



### Health management and preventive care

Wellness monitoring, cardiovascular, metabolic disorders, and pulmonary fibrosis.



#### Anti-aging and cosmetic evaluation

Cellular aging measurement, cosmetic care, and cell therapy assessment.



#### Stress-related health studies

Effects of chronic stress, smoking, drinking, sedentary habits, and poor routines.



#### Clinical & scientific research

Telomere biology, cellular aging, and translational medicine.

## **Ordering Information**

Cat No.	Product Name	Format	Sample Types	Shelf Life	Storage	Kit Size	Certification
TP060101T2024	Human Telomere Length Real Time PCR Detection Kit	Liquid	Oropharyngeal swabs and whole blood	12 months	-20±5°C	24 Tests/Kit	CE
TP060101T2048						48 Tests/Kit	

<sup>\*</sup>Software Support: Automatically analyze telomere results and get your length, age, and peer ranking in one instant report.

Ver: 0.0 Date: 2025-09-18

