

Open Peer Review on Qeios

## Telomere Maintenance Gene

National Cancer Institute

## Source

National Cancer Institute. <u>Telomere Maintenance Gene</u>. NCI Thesaurus. Code C20338.

Telomere Maintenance Genes encode specialized proteins bound to telomeric DNA repeats and directly involved in maintaining/protecting chromosome telomere ends to prevent a damage response that halts cell proliferation. Telomerase, which lengthens telomeric DNA by RNA-templated addition of repeated DNA sequences, is regulated by proteins that bind to the telomeric DNA repeats and to additional proteins to assemble a higher-order telomeric complex. (NCI)

Qeios ID: NL85UK · https://doi.org/10.32388/NL85UK