Telomere Length Regulation Protein TEL2 Homolog (TELO2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Telomere length regulation protein TEL2 homolog (Telo2), Recombinant Protein
Full Product Name	Recombinant Mouse Telomere length regulation protein TEL2 homolog (Telo2) , partial
Product Gene Name	Telo2 recombinant protein
Product Synonym Gene Name	Telo2
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	33,494 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9DC40
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Telo2 recombinant protein	MBS1470767 is a recombinant protein targeting Telo2. Also known as Recombinant Mouse Telomere length regulation protein TEL2 homolog (Telo2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Telo2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Telo2. It may not necessarily be applicable to this product.

NCBI GI #	255683441
NCBI GeneID	71718
NCBI Accession #	NP_001157133.1
UniProt Primary Accession #	Q9DC40
UniProt Secondary Accession #	Q3U3J5; Q3UID7; Q3UP41; Q8BN03; Q8C1T3; Q91VQ3
UniProt Related Accession #	Q9DC40
GenBank Nucleotide #	NM_001163661.1
NCBI Official Full Name	telomere length regulation protein TEL2 homolog
NCBI Official Synonym Full Names	telomere maintenance 2

NCBI Official Symbol	Telo2
NCBI Official Synonym Symbols	Tel2; AI415602; mKIAA0683; 1200003M09Rik
UniProt Protein Name	Telomere length regulation protein TEL2 homolog
Protein Family	Telomere length regulation protein
UniProt Gene Name	Telo2
UniProt Synonym Gene Names	Kiaa0683
NCBI Protein Information	telomere length regulation protein TEL2 homolog
UniProt Comments for Telo2	Regulator of the DNA damage response (DDR). Part of the TTT complex that is required to stabilize protein levels of the phosphatidylinositol 3-kinase-related protein kinase (PIKK) family proteins. The TTT complex is involved in the cellular resistance to DNA damage stresses, like ionizing radiation (IR), ultraviolet (UV) and mitomycin C (MMC). Together with the TTT complex and HSP90 may participate in the proper folding of newly synthesized PIKKs. Promotes assembly, stabilizes and maintains the activity of mTORC1 and mTORC2 complexes, which regulate cell growth and survival in response to nutrient and hormonal signals. May be involved in telomere length regulation ().
Research Articles on Telo2	**1.** IP7, formed by IP6K2, binds CK2 to enhance its phosphorylation of the Tti1/Tel2 complex, thereby stabilizing DNA-PKcs and ATM. This process stimulates p53 phosphorylation at serine 15 to activate the cell death program.
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