

Recombinant Human TIMELESS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TIMELESS-3517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TIMELESS MS Standard C13 and N15-labeled recombinant protein (NP_003911) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is highly conserved and is involved in cell survival after damage or stress, increase in DNA polymerase epsilon activity, maintenance of telomere length, and epithelial cell morphogenesis. The encoded protein also plays a role in the circadian rhythm autoregulatory loop, interacting with the PERIOD genes (PER1, PER2, and PER3) and others to downregulate activation of PER1 by CLOCK/ARNTL. Changes in this gene or its expression may promote prostate cancer, lung cancer, breast cancer, and mental disorders.
Molecular Mass	138.7 kDa
AA Sequence	MDLHMMNCELLATCSALGYLEGDTYHKEPDCLESVKDLIRYLRHEDETRDVRQQLG AAQILQSDLLPILTQHHQDKPLFDVIRLMVNLTQPALLCFGNLPKEPSFRHHFLQVL TYLQAYKEAFASEKAFGVLSETLYELLQLGWEERQEEDNLLIERILLVLRNHLHVPADL DQEKKIDDDASAHDQLLWAIHLSGLDDLLLFLASSSAEEQWSLHVLEIVSLMFRDQN PEQLAGVGQGRLAQERSADFAELEVLVRQREMAEKKTRALQRGNRHSRFGGSYIVQ GLKSIGERDLIFHKGLHNLNRNYSSDLGKQPKKVPKRRQAARELSIQRRSALNVRLFL

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RDFCSEFLENCYNRLMGSVKDHLLREKAQQHDETYMWAFFMAFNRAASFRPG
 LVSETLSVRTFHIEQNLNYYEMMLTDRKEAASWARRMHLALKAYQELLATVNEM
 DISPDEAVRESSRIKNNIFYVMEYRELFALFRKFDERCQPRSFLRDLVETTHLFLKM
 LERFCRSRGNLVVQNKQKKRRKKKKKVLDQAIVSGNVPSSPEEVEAVWPALAEQLQ
 CCAQNSELSMDSVVPFDAASEVPVEEQRAEAMVRIQDCLLAGQAPQALTLLRSARE
 VWPEGDVFGSQDISPEEEIQLLKQILSAPLPRQQGPEERGAESEEEEEEEEEELQV
 VQVSEKEFNFLDYLKRFACSTVVRAYVLLLSYQQNSAHTNHCIVKMLHRLAHDLM
 EALLFQLSVFCLFNRLSDPAAGAYKELVTFKYILGKFFALAAVNQKAFVELLFWKN
 TAVVREMTEGYGSLDDRSSRRAPTWSPEEEAHLRELYLANKDVEGQDVVEAILAH
 LNTVPRTKQIIHHLVQMGLADSVKDFQRKGTHIVLWTGDQELQLRLEEFDRSDS
 VLGHIMKNITAKRSRARIVDKLLALGLVAERRELYKKRQKKLASSILPNGAESLKDFC
 QEDLEEEENLPEEDSEEEEGGSEAEQVQGSVLNENLGQSLHQEGFSILLWLQ
 NCLIRAADDREEDGCSQAVPLVPLTEENEEAMENEQFQQLLRKLGVRPPASGQETF
 WRIPAKLSPTQLRRAAASLSQPEEEQKLQPELQPKVPGEQGSDEEHCKEHLRAQALR
 ALLLAHKKKAGLASPEEEDAVGKEPLKAAPKKRQLLDSDEEQEEDGRNRAPELGA
 PGIQKKKRYQIEDDEDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TIMELESS timeless circadian regulator [Homo sapiens (human)]
Official Symbol	TIMELESS
Synonyms	TIMELESS; timeless homolog (Drosophila); timeless (Drosophila) homolog; protein timeless homolog; hTIM; TIM; TIM1; Tof1 homolog (S. cerevisiae); Tof1 homolog; FLJ12640; FLJ20714;
Gene ID	8914
mRNA Refseq	NM_003920
Protein Refseq	NP_003911
MIM	603887
UniProt ID	Q9UNS1
SDS-PAGE	