

Recombinant Full Length Human TIMELESS Protein, C-Flag-tagged

Cat. No. TIMELESS-1251HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TIMELESS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	138.5 kDa
AA Sequence	MDLHMMNCELLATCSALGYLEGDTYHKEPDCLESVKDLIRYLRHEDETRDVRQQQLG AAQILQSDLLPILT QHHQDKPLFDAVIRLMVNLTQPALLCFGNLPKEPSFRHHFLQVL TYLQAYKEAFASEKAFGVLSETLYEL LQLGWEERQEEDNLLIERILLVLRNHLHVPAD LDQEKKIDDDASAHDQLLWAIHLGLDDLLFLASSSA EEQWSLHVLEIVSLMFRDQ NPEQLAGVGQGRLAQERSADFAELEVLRQREMAEKKTRALQGRNRSRFGG SYIV

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QGLKSIGERDLIFHKGLHNLNRYSSDLGKQPKKVPKRRQAARELSIQRRSALNVRLF
 LRDFCSEFL ENCYNRLMGSVKDHLLREKAQQHDETYMWAFFMAFNRAASFRP
 GLVSETLSVRTFHFIEQNLTNYE MMLTDRKEAASWARRMHLALKAYQELLATVNE
 MDISPDEAVRESSRIIKNIFYVMEYRELFLALFRKFD ERCQPRSFLRDLVETTHLFL
 KMLERFCRSRGNLVVQNKQKKRRKKKKKVLDAQIVSGNVPSSPEEVEAVW PALAE
 QLQCCAQNSELSMDSVVPFDAASEVPVEEQRAEAMVRIQDCLLAGQAPQALTLLRS
 AREVWPEGD VFGSQDISPEEEIQLLKQILSAPLPRQQGPEERGAEAAAAAAAAAAAA
 ELQVVQVSEKEFNFLDYLKRFAC STVVRAYVLLLSYQQNSAHTNHCIVKMLHRLA
 HDLKMEALLFQLSVFCLFNRLSDPAAGAYKELVTFA KYILGKFFALAAVNQKAFVEL
 LFWKNTAVVREMTEGYGSLDDRSSRRAPTWSPEEEAHLRELYLANKDV EGQDVV
 EAILAHLNTPRTRKQIIHHLVQMGLADSVKDFQRKGTHIVLWTGDQELELQRLFEEF
 RDSDDV LGHIMKNITAKRSRARIVDKLLALGLVAERRELYKKRQKKLASSILPNGAES
 LKDFCQEDLEEEENLPEE DSEEEEEGGSEAEQVQGSVLVSNENLGQSLHQEGFSIL
 LLWLQNCLIRAADDREEDGCSQAVPLVPLTEE NEEAMENEQFQQLLRKLGVRPPAS
 GQETFWRIPAKLSPTQLRRAAASLSQPEEEQKLQPELQPKVPGEQG SDEEHCKEH
 RAQALRALLLAHKKKAGLASPEEEDAVGKEPLKAAPKKRQLLDSDEEQEEDENR
 APELG
 APGIQKKRYQIEDDEDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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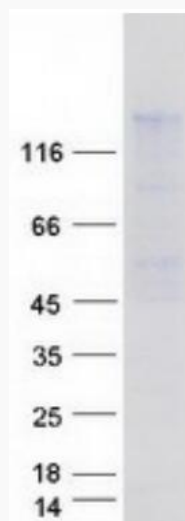
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Protein Families	Transcription Factors
Full Length	Full L.
GENE INFORMATION	
Gene Name	TIMELESS timeless circadian regulator [Homo sapiens (human)]
Official Symbol	TIMELESS
Synonyms	TIM; TIM1; hTIM; FASPS4
Gene ID	8914
mRNA Refseq	NM_003920.5
Protein Refseq	NP_003911.2
MIM	603887
UniProt ID	Q9UNS1

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Coomassie blue staining of purified TIMELESS protein.

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