

Product datasheet for TP303902

PUS7 (NM_019042) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pseudouridylate synthase 7 homolog (<i>S. cerevisiae</i>) (PUS7), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203902 protein sequence Red=Cloning site Green=Tags(s)

MEMTEMTGVSLKRGALWVEDNDSGVPVEETKKQKLSECSLTKGQDGLQNDFLSISEDVPRPPDTVSTGKG
GKNSEAQLEDEEEEEEDGLSECEEESESFADMMKHGLTEADVGITKFVSSHQGFSGILKERYSDFWVH
EIGKDGRISHLNDSIPVDEEDPSEDIFTVLTAEEKQRLEELQLFKNKETSVAIEVIEDTKEKRTIIHQ
IKSLFPGLETKTEDREGKKYIVAYHAAGKKALANPRKHSWPKSRGYSYCHFVLYKENKDTMDAINVLSKYL
RVKPNIFSYMGTKDKRAITVQEIAVLKITAQRLAHLNKCLMNFKLGNFYSYQKNPLKLGELQGNHFTVLR
NITGTDDQVQAMNSLKEIGFINYYGMQRFGTTAVPTYQVGRAILQNSWTEVMDLILKPRSGAEKGYLVK
CREEWAKTKDPTAALRKLKRVKRCVEGQLLRGLSKYGMKNIVSAFGIIPRNNRLMYIHSYQSYVWNNMVS
RIEDYGLKPVPGDLVLKGGATATYIEEDDNNYSIHDVVMPLPGFDVIYPKHKIQEAYREMLTADNLDIDN
MRHKIRDYSLSGAYRKIIIRPQNVSWEVVAYDDPKIPLFNTDVDNLEGKTPPVFASEGKYRALKMDFSLP
PSTYATMAIREVLKMDTSIKNQTQLNTTWLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

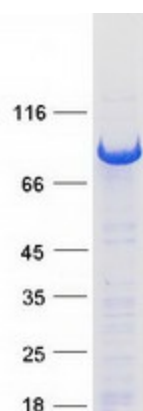
Tag:	C-Myc/DDK
Predicted MW:	74.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_061915
Locus ID:	54517
UniProt ID:	Q96PZ0 , B3KY42 , B3KRB2
RefSeq Size:	3484
Cytogenetics:	7q22.3
RefSeq ORF:	1983
Synonyms:	IDDABS
Summary:	Pseudouridylate synthase that catalyzes pseudouridylation of RNAs (PubMed:28073919, PubMed:29628141). Acts as a regulator of protein synthesis in embryonic stem cells by mediating pseudouridylation of RNA fragments derived from tRNAs (tRFs): pseudouridylated tRFs inhibit translation by targeting the translation initiation complex (PubMed:29628141). Also catalyzes pseudouridylation of mRNAs: mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3' (PubMed:28073919). In addition to mRNAs and tRNAs, binds other types of RNAs, such as snRNAs, Y RNAs and vault RNAs, suggesting that it can catalyze pseudouridylation of many RNA types (PubMed:29628141).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified PUS7 protein (Cat# TP303902). The protein was produced from HEK293T cells transfected with PUS7 cDNA clone (Cat# [RC203902]) using MegaTran 2.0 (Cat# [TT210002]).