

Product datasheet for PH303902

PUS7 (NM_019042) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PUS7 MS Standard C13 and N15-labeled recombinant protein (NP_061915)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203902
Predicted MW:	75 kDa
Protein Sequence:	>RC203902 protein sequence Red=Cloning site Green=Tags(s)

MEMTEMTGVSLKRGALVVEDNDSGVPVEETKKQKLSECSLTKGQDGLQNDFLSISEDVPRPPDVTSTGKG
GKNSEAQLEDEEEEEEDGLSEECEEESESFADMMKHGLTEADVGITKVFSSHQGFSGILKERYSDFFVH
EIGKDGRISHLNDLSIPVDEEDPSEDIFTVLTAEKQRLLEELQLFKNKETSVAIIEVIEDTKEKRTIIHQ
IKSLFPGLETKTEDREGKKYIVAYHAAGKKALANPRKHSWPKSRGSYCHFVLYKENKDTMDAINVLSKYL
RVKPNIFSYMGTCKDKRAITVQEIAVLKITAQRLAHLNKCLMNFKLGNF SYQKNPLKLGELQGNHFTVVL
NITGTDQVQQAMNSLKEIGFINYYGMQRFGTTAVPTYQVGRAILQNSWTEVMDLILKPRSGAEGKGYLVK
CREEWAKTKDPTAALRKLPVKRCVEGQLLRGLSKYGMKNIVSAFGIIPRNNRLMYIHSYQSYVWNNMYSK
RIEDYGLKPVPGDLVLKGATATYIEEDDVNNYSIHDVVMPLPGFDVIYPKHKIQEAYREMLTADNLDIDN
MRHKIRDYSLSGAYRKIIIRPQNVSWEVVAYDDPKIPLFNTDVDNLEGKTPPVFASEGKYRALKMDFSLP
PSTYATMAIREVLKMDTSIKNQTLNNTWLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_061915
RefSeq Size:	3484



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RefSeq ORF: 1983

Synonyms: IDDABS

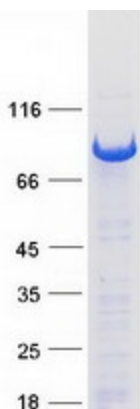
Locus ID: 54517

UniProt ID: [Q96PZ0](#), [B3KY42](#), [B3KRB2](#)

Cytogenetics: 7q22.3

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]).