

Product datasheet for TP301830L

OriGene Technologies, Inc.

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Selenophosphate synthetase 2 (SEPHS2) (NM_012248) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Homo sapiens selenophosphate synthetase 2 (SEPHS2), 1 mg

Species: Human Expression Host: HEK293T

Expression cDNA Clone >RC201830 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MAEASATGACGEAMAAAEGSSGPAGLTLGRSFSNYRPFEPQALGLSPSWRLTGFSGMKG*GCKVPQEALL KLLAGLTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFPALGIGMDSCVIPLRHGGLSLVQTTDFF YPLVEDPYMMGRIACANVLSDLYAMGITECDNMLMLLSVSQSMSEEEREKVTPLMVKGFRDAAEEGGTAV TGGQTVVNPWIIIGGVATVVCQPNEFIMPDSAVVGDVLVLTKPLGTQVAVNAHQWLDNPERWNKVKMVVS REEVELAYQEAMFNMATLNRTAAGLMHTFNAHAATDITGFGILGHSQNLAKQQRNEVSFVIHNLPIIAKM AAVSKASGRFGLLQGTSAETSGGLLICLPREQAARFCSEIKSSKYGEGHQAWIVGIVEKGNRTARIIDKP

RVIEVLPRGATAAVLAPDSSNASSEPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 47.1 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.

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 036380





Locus ID: 22928

 UniProt ID:
 Q99611

 RefSeq Size:
 2351

Cytogenetics: 16p11.2
RefSeq ORF: 1344
Synonyms: SPS2

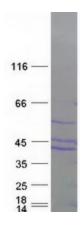
Summary: This gene encodes an enzyme that catalyzes the production of monoselenophosphate (MSP)

from selenide and ATP. MSP is the selenium donor required for synthesis of selenocysteine (Sec), which is co-translationally incorporated into selenoproteins at in-frame UGA codons that normally signal translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is itself a selenoprotein containing a Sec residue at its active site, suggesting the existence of an autoregulatory mechanism. It is preferentially expressed in tissues implicated in the synthesis of selenoproteins and in sites of blood cell development. A pseudogene for this locus has been

identified on chromosome 5. [provided by RefSeq, May 2017]

Protein Pathways: Metabolic pathways, Selenoamino acid metabolism

Product images:



Coomassie blue staining of purified SEPHS2 protein (Cat# [TP301830]). The protein was produced from HEK293T cells transfected with SEPHS2 cDNA clone (Cat# [RC201830]) using MegaTran 2.0 (Cat# [TT210002]).