

Product datasheet for TP305212L

OriGene Technologies, Inc.

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SUCLA2 (NM_003850) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human succinate-CoA ligase, ADP-forming, beta subunit (SUCLA2),

nuclear gene encoding mitochondrial protein, 1 mg

Species: Human Expression Host: HEK293T

Expression cDNA >RC205212 protein sequence
Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MAASMFYGRLVAVATLRNHRPRTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSLHEYMSMELLQEAGVS VPKGYVAKSPDEAYAIAKKLGSKDVVIKAQVLAGGRGKGTFESGLKGGVKIVFSPEEAKAVSSQMIGKKL FTKQTGEKGRICNQVLVCERKYPRREYYFAITMERSFQGPVLIGSSHGGVNIEDVAAESPEAIIKEPIDI EEGIKKEQALQLAQKMGFPPNIVESAAENMVKLYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSN SAYRQKKIFDLQDWTQEDERDKDAAKANLNYIGLDGNIGCLVNGAGLAMATMDIIKLHGGTPANFLDVGG

 ${\sf GATVHQVTEAFKLITSDKKVLAILVNIFGGIMRCDVIAQGIVMAVKDLEIKIPVVVRLQGTRVDDAKALI}$

ADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLPI

TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK
Predicted MW: 44.5 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.



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RefSeq: NP 003841

Locus ID: 8803

UniProt ID: <u>Q9P2R7</u>, <u>E5KS60</u>, <u>Q9Y4T0</u>

RefSeq Size: 2182

Cytogenetics: 13q14.2 RefSeq ORF: 1389

Synonyms: A-BETA; A-SCS; LINC00444; MTDPS5; SCS-betaA

Summary: Succinyl-CoA synthetase (SCS) is a mitochondrial matrix enzyme that acts as a heterodimer,

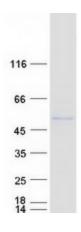
being composed of an invariant alpha subunit and a substrate-specific beta subunit. The protein encoded by this gene is an ATP-specific SCS beta subunit that dimerizes with the SCS alpha subunit to form SCS-A, an essential component of the tricarboxylic acid cycle. SCS-A hydrolyzes

ATP to convert succinate to succinyl-CoA. Defects in this gene are a cause of myopathic mitochondrial DNA depletion syndrome. A pseudogene of this gene has been found on

chromosome 6. [provided by RefSeq, Jul 2008]

Protein Pathways: Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism

Product images:



Coomassie blue staining of purified SUCLA2 protein (Cat# [TP305212]). The protein was produced from HEK293T cells transfected with SUCLA2 cDNA clone (Cat# [RC205212]) using MegaTran 2.0 (Cat# [TT210002]).