

# **Product datasheet for PH315228**

### OriGene Technologies, Inc.

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#### COASY (NM 001042529) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** COASY MS Standard C13 and N15-labeled recombinant protein (NP\_001035994)

Species: Human Expression Host: HEK293

Expression cDNA Clone

RC215228

or AA Sequence: Predicted MW:

62.4 kDa

Protein Sequence: >RC215228 protein sequence

Red=Cloning site Green=Tags(s)

MAVFRSGLLVLTTPLASLAPRLASILTSAARLVNHTLYVHLQPGMSLEGPAQPQYSPVQATFEVLDFITH LYAGADVHRHLDVRILLTNIRTKSTFLPPLPTSVQNLAHPPEVVLTDFQTLDGSQYNPVKQQLVRYATSC YSCCPRLASVLLYSDYGIGEVPVEPLDVPLPSTIRPASPVAGSPKQPVRGYYRGAVGGTFDRLHNAHKVL LSVACILAQEQLVVGVADKDLLKSKLLPELLQPYTERVEHLSEFLVDIKPSLTFDVIPLLDPYGPAGSDP SLEFLVVSEETYRGGMAINRFRLENDLEELALYQIQLLKDLRHTENEEDKVSSSSFRQRMLGNLLRPPYE RPELPTCLYVIGLTGISGSGKSSIAQRLKGLGAFVIDSDHLGHRAYAPGGPAYQPVVEAFGTDILHKDGI INRKVLGSRVFGNKKQLKILTDIMWPIIAKLAREEMDRAVAEGKRVCVIDAAVLLEAGWQNLVHEVWTAV IPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLVEQSHVVLSTLWEPHITQRQVEKAWALLQKRIPKTH

QALD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration:  $>0.05 \mu g/\mu L$  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.

**RefSeg:** NP 001035994

RefSeq Size: 2182 RefSeq ORF: 1692





#### COASY (NM\_001042529) Human Mass Spec Standard - PH315228

Synonyms: DPCK; NBIA6; NBP; PCH12; pOV-2; PPAT; UKR1

 Locus ID:
 80347

 UniProt ID:
 Q13057

 Cytogenetics:
 17q21.2

**Summary:** Coenzyme A (CoA) functions as a carrier of acetyl and acyl groups in cells and thus plays an

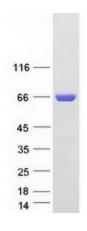
important role in numerous synthetic and degradative metabolic pathways in all organisms. In eukaryotes, CoA and its derivatives are also involved in membrane trafficking and signal transduction. This gene encodes the bifunctional protein coenzyme A synthase (CoAsy) which carries out the last two steps in the biosynthesis of CoA from pantothenic acid (vitamin B5). The phosphopantetheine adenylyltransferase domain of this bifunctional protein catalyzes the conversion of 4'-phosphopantetheine into dephospho-coenzyme A (dpCoA) while its dephospho-CoA kinase domain completes the final step by phosphorylating dpCoA to form CoA. Mutations in this gene are associated with neurodegeneration with brain iron

accumulation (NBIA). Alternative splicing results in multiple isoforms. [provided by RefSeq,

Apr 2014]

**Protein Pathways:** Metabolic pathways, Pantothenate and CoA biosynthesis

## **Product images:**



Coomassie blue staining of purified COASY protein (Cat# [TP315228]). The protein was produced from HEK293T cells transfected with COASY cDNA clone (Cat# [RC215228]) using MegaTran 2.0 (Cat# [TT210002]).