OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH308461

HOGA1 (NM_138413) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DHDPSL MS Standard C13 and N15-labeled recombinant protein (NP_612422)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208461
Predicted MW:	35.2 kDa
Protein Sequence:	>RC208461 protein sequence Red=Cloning site Green=Tags(s) MLGPQVWSSVRQGLSRSLSRNVGVWASGEGKKVDIAGIYPPVTTPFTATAEVDYGKLEENLHKLGTFPFR GFVVQGSNGEFPFLTSSERLEVVSRVRQAMPKNRLLLAGSGCESTQATVEMTVSMAQVGADAAMVVTPCY YRGRMSSAALIHHYTKVADLSPIPVVLYSVPANTGLDLPVDAVVTLSQHPNIVGMKDSGGDVTRIGLIVH KTRKQDFQVLAGSAGFLMASYALGAVGGVCALANVLGAQVCQLERLCCTGQWEDAQKLQHRLIEPNAAVT RRFGIPGLKKIMDWFGYYGGPCRAPLQELSPAEEEALRMDFTSNGWL 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_612422
RefSeq Size:	2501
RefSeq ORF:	981
Synonyms:	C10orf65; DHDPS2; DHDPSL; HP3; NPL2
Locus ID:	112817

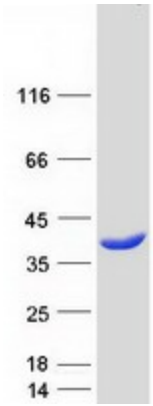
View online »

UniProt ID: Q86XE5

Cytogenetics: 10q24.2

Summary: The authors of PMID:20797690 cloned this gene while searching for genes in a region of chromosome 10 linked to primary hyperoxalurea type III. They noted that even though the encoded protein has been described as a mitochondrial dihydrodipicolinate synthase-like enzyme, it shares little homology with E. coli dihydrodipicolinate synthase (Dhdps), particularly in the putative substrate-binding region. Moreover, neither lysine biosynthesis nor sialic acid metabolism, for which Dhdps is responsible, occurs in vertebrate mitochondria. They propose that this gene encodes mitochondrial 4-hydroxyl-2-oxoglutarate aldolase (EC 4.1.3.16), which catalyzes the final step in the metabolic pathway of hydroxyproline, releasing glyoxylate and pyruvate. This gene is predominantly expressed in the liver and kidney, and mutations in this gene are found in patients with primary hyperoxalurea type III. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Nov 2010]

Product images:



Coomassie blue staining of purified HOGA1 protein (Cat# [TP308461]). The protein was produced from HEK293T cells transfected with HOGA1 cDNA clone (Cat# [RC208461]) using MegaTran 2.0 (Cat# [TT210002]).