

Datasheet for ABIN7556988

## GPAT2 Protein (AA 1-801) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	GPAT2
Protein Characteristics:	AA 1-801
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPAT2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat Gpat2 Protein expressed in mammalien cells.
Sequence:	<p>MDTMLKSNPQ TQQRSNHNGQ ETSWSSSFG MKMEAITPFL GKYRPFMGRC CQTCTPKSWE</p> <p>SLFHRSIMDL GFCNVILVKE ENTRFRGWLV RRLCYFLWSL EQHIPTSFDA SQKIMENTGV</p> <p>QNLLSGRVPQ AAGEGQAPQL VKKEVQRILG HIQTTPRPFL LRLFSWALLW FLNRLFLNVQ</p> <p>LHKGQMKMVQ KAVQEGSPLV FLSTHKSLLD GFLLPFVLFS QGLGVVRVAL DSRTCSPALR</p> <p>ALLRKLGGFL LPPEVNLSLD NSEGILARAV VRATVEELLT SGQPLLIFLE EPPGSPGPRL</p> <p>SALGQAWLGV VIQAVQAGII SDATLVPVAI AYDLVPDAPC NMNHD LAPLG LWTGALAVFR</p> <p>RLCNCWGCNR RVCVRVHLAQ PFSLQEYITN ARSCWDSRQT LEHLLQPIVL GECSVVPDTE</p> <p>KEQEWTPPTG LLLALKEEDQ LLVRRLSRHV LSASVASSAV MSTAIMATLL LLKHQKGVVL</p> <p>SQLLGEFSWL TEETLLRGFD VGFSGQLRCL AQHTLSLLRA HVVLLRVHQG DLVVVPRPGP</p> <p>GLTHLARLSM ELLPTFLSEA VGACAVRGLL AGRVPPEGPW ELQGIELLSQ NELYRQILLL</p> <p>LHLLPQDLLL PQPCQSSYCY CQEVLDRLIQ CGLLVAEETP GSRPACDTGR QHLSAKLLWK</p>

Product Details

PSGDFTDSES DDFEPPGGRC FRLSQQSRCP DFFLFLCRLL SPILKAFAQA ATFLHLGQLP  
DSEVAYSEKL FQFLQACAQE EGIFECADPN LAISAVWTFK DLGVLQEMPS PTGPQLHLSP  
TFATRDNQDK LEQFIRQFIC S **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

GPAT2

Alternative Name:

Gpat2 ([GPAT2 Products](#))

Background:

Glycerol-3-phosphate acyltransferase 2, mitochondrial (GPAT-2) (EC 2.3.1.15) (1-acylglycerol-3-phosphate O-acyltransferase GPAT2) (EC 2.3.1.51) (xGPAT1),FUNCTION: Transfers an acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate producing a lysophosphatidic acid (LPA), an essential step for the triacylglycerol (TAG) and glycerophospholipids (PubMed:17013544, PubMed:17689486, PubMed:22905194). In vitro also transfers an acyl-group from acyl-ACP to the LPA producing a phosphatidic acid (PA) (PubMed:22905194). Prefers arachidonoyl-CoA as the acyl donor (PubMed:22905194). Required for primary processing step during piRNA biosynthesis (PubMed:23611983). Molecular mechanisms by

## Target Details

	which it promotes piRNA biosynthesis are unclear and do not involve its acyltransferase activity (PubMed:23611983). {ECO:0000269 PubMed:17013544, ECO:0000269 PubMed:17689486, ECO:0000269 PubMed:22905194, ECO:0000269 PubMed:23611983}.
Molecular Weight:	89.2 kDa
UniProt:	<a href="#">Q14DK4</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months