

# Recombinant Human AUP1 Protein (Val201-Asp410), His tagged

**Cat. No.** AUP1-0705H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human AUP1 (Val201-Asp410) fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val201-Asp410
<b>Description</b>	<p>The protein encoded this gene is involved in several pathways including quality control of misfolded proteins in the endoplasmic reticulum and lipid droplet accumulation. Lipid droplets are organelles in the cytoplasm that store neutral lipids such as cholesterol esters and triglycerides to prevent the overabundance of free cholesterol and fatty acids in cells, but also to act as storage for other metabolic processes, such as membrane biogenesis. Reduced expression of this gene results in reduced lipid droplet clustering, a function that is dependent on ubiquitination of the protein. This protein contains multiple domains including a hydrophobic N-terminal domain, an acetyltransferase domain, a ubiquitin-binding CUE domain, and a UBE2B2-binding domain (G2BR). Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Lyophilized powder/frozen liquid
<b>Molecular Mass</b>	25.4 kDa

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<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	AUP1 ancient ubiquitous protein 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	AUP1
<b>Synonyms</b>	AUP1; AUP1 lipid droplet regulating VLDL assembly factor; lipid droplet-regulating VLDL assembly factor AUP1; ancient ubiquitous protein 1
<b>Gene ID</b>	550
<b>mRNA Refseq</b>	NM_181575
<b>Protein Refseq</b>	NP_853553
<b>MIM</b>	602434

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UniProt ID

Q9Y679

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