

## Recombinant Human USO1, His-tagged

**Cat. No.** USO1-31129TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 746-962 of Human Vesicle docking protein p115 with an N terminal His tag. Predicted mwt: 25 kDa;
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	746-962 a.a.
<b>Description</b>	The protein encoded by this gene is a peripheral membrane protein which recycles between the cytosol and the Golgi apparatus during interphase. It is regulated by phosphorylation: dephosphorylated protein associates with the Golgi membrane and dissociates from the membrane upon phosphorylation. Ras-associated protein 1 recruits this protein to coat protein complex II (COPII) vesicles during budding from the endoplasmic reticulum, where it interacts with a set of COPII vesicle-associated SNAREs to form a cis-SNARE complex that promotes targeting to the Golgi apparatus. Transport from the ER to the cis/medial Golgi compartments requires the action of this gene product, GM130 and giantin in a sequential manner.
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitute with 130 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	QELLQSQLTEKDSMIENMKSSQTSGTNEQSSAIVSARDSE QVAELKQELATLKSQL NSQSVEITKLQTEKQELLQKTE AFAKSVEVQGETETIIATKTTDVEGRLSALLQETKE LK NEIKALSEERTAIKEQLDSSNSTIAILQTEKDKLELEITD SKKEQDDLLVLLADQDQ KILSLKNKLKDLGHPVEEEDE LESGDQEDEDDESEDPGKDL DHI
<b>Sequence Similarities</b>	Belongs to the VDP/USO1/EDE1 family.Contains 10 ARM repeats.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">USO1</a> <a href="#">USO1 vesicle docking protein homolog (yeast) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">USO1</a>
<b>Synonyms</b>	USO1; USO1 vesicle docking protein homolog (yeast); USO1 homolog, vesicle docking protein (yeast); general vesicular transport factor p115; p115; TAP; transcytosis associated protein; VDP; vesicle docking protein;
<b>Gene ID</b>	<a href="#">8615</a>
<b>mRNA Refseq</b>	<a href="#">NM_003715</a>
<b>Protein Refseq</b>	<a href="#">NP_003706</a>
<b>MIM</b>	<a href="#">603344</a>
<b>Uniprot ID</b>	<a href="#">O60763</a>
<b>Chromosome Location</b>	4q21.1

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**Pathway** Arf1 pathway, organism-specific biosystem;

**Function** binding; protein transporter activity;

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