

## Product datasheet for **TP720995M**

### **ATG5 (NM\_004849) Human Recombinant Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human ATG5 autophagy related 5 homolog ( <i>S. cerevisiae</i> ) (ATG5)
Species:	Human
Expression Host:	<i>E. coli</i>
Expression cDNA Clone or AA Sequence:	Met1-Asp275
Tag:	Tag Free
Predicted MW:	32.4 kDa
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004840</a>
Locus ID:	9474
UniProt ID:	<a href="#">Q9H1Y0</a> , <a href="#">Q7Z3H3</a> , <a href="#">A9UGY9</a>
RefSeq Size:	3260
Cytogenetics:	6q21
RefSeq ORF:	825
Synonyms:	APG5; APG5-LIKE; APG5L; ASP; hAPG5; SCAR25



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**Summary:** The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

**Protein Families:** Druggable Genome

**Protein Pathways:** Regulation of autophagy, RIG-I-like receptor signaling pathway