



# Recombinant *Candida glabrata* Serine/threonine-protein kinase ATG1 (ATG1), partial

<b>Product Code</b>	CSB-EP738902CZI
<b>Relevance</b>	Serine/threonine protein kinase involved in the cytoplasm to vacuole transport (Cvt) and found to be essential in autophagy, where it is required for the formation of autophagosomes. Involved in the clearance of protein aggregates which cannot be efficiently cleared by the proteasome. Required for selective autophagic degradation of the nucleus (nucleophagy) as well as for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Also involved in endoplasmic reticulum-specific autophagic process, in selective removal of ER-associated degradation (ERAD) substrates. Plays a key role in ATG9 and ATG23 cycling through the pre-autophagosomal structure and is necessary to promote ATG18 binding to ATG9 through phosphorylation of ATG9.
<b>Abbreviation</b>	Recombinant <i>Candida glabrata</i> ATG1 protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q6FL58
<b>Alias</b>	Autophagy-related protein 1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	<i>Candida glabrata</i> (strain ATCC 2001 / CBS 138 / JCM 3761 / NBRC 0622 / NRRL Y-65) (Yeast) ( <i>Torulopsis glabrata</i> )
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	YVVEKEIGKGSFATVYRGHVTTDPKSHIAVKAVARSKLKNKKLLENLEIEIAILKK IKHPHIVGLIDCERTTTDFYLVMDYCALGDLTFLIKKRKELENNHPLLQTVFNKY PPPSKEHNGLNRAFVVCYLQQLASALKFLRSKNLVHRDIKPQNLLLATPLTNYR DSKTFHELGYVGIYNLPILKIADFGFARFLPSTSLAETLCGSPLYMAPEILNYQK YNAKADLWSVGTVLFEMCCGVPPFTASNHLELFKKIKRAHDEINFPEVCEVED GLKELICSLTTFDPAKRIGFEEFFNNKIV
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	ATG1
<b>Protein Names</b>	Recommended name: Serine/threonine-protein kinase ATG1 EC=2.7.11.1 Alternative name(s): Autophagy-related protein 1
<b>Expression Region</b>	11-312aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

**Tag Info**

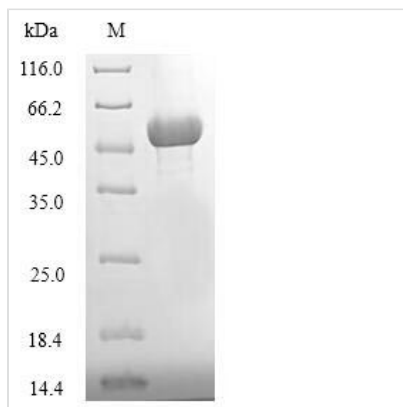
N-terminal 6xHis-tagged

**Mol. Weight**

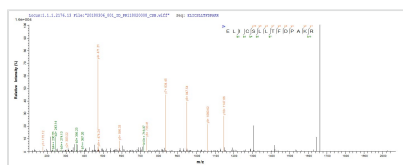
38.4kDa

**Protein Length**

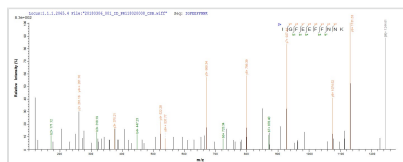
Partial

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP738902CZI could indicate that this peptide derived from E.coli-expressed *Candida glabrata* (strain ATCC 2001 / CBS 138 / JCM 3761 / NBRC 0622 / NRRL Y-65) (Yeast) (*Torulopsis glabrata*) ATG1.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP738902CZI could indicate that this peptide derived from E.coli-expressed *Candida glabrata* (strain ATCC 2001 / CBS 138 / JCM 3761 / NBRC 0622 / NRRL Y-65) (Yeast) (*Torulopsis glabrata*) ATG1.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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