

Product datasheet for **TP507307**

Atg4c (NM_001145967) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse autophagy related 4C, cysteine peptidase (Atg4c), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207307 protein sequence Red =Cloning site Green =Tags(s)

MEASGTDEVDKDKTKFISAWNNMKYSWVLKTKTYFSRNSPVLLL GKCYHFKEYEDES KM LPARSGCAIEDH
VIAGNVEEFRKDFISRLWLT YREEFPQIEASALTTDCGWGCTLR TGQMLLAQGLILHFLGRAWTWPDALH
IENADSDSWTSNTVKKFTASFEASLSGDRELRTPAVSLKETSGKCPDDHAVRNEAYHRKIISWFGDSPVA
VFGLHRLIEFGKKGKAGDWYGP AVVAHILRKA VEEARHPDLQGLTIYVAQDCTVYNSDVIDKQ TDSVT
AGDARDKAVIILVPVRLGGERTNTDY LEFVKGVLSLEYCVGIIGGKPKQSYFAGFQDDSLIYMDPHYCQ
SFVDVSIKDFPLETFHCPSPKKMSFRKMDPSCTIGFYCRNVQDFERASEEITKMLKISSKEYPLFTFVN
GHSKDFDFTSTAASEEDLFSEDERKNFKRFSTEEFVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	52.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001139439
Locus ID:	242557



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UniProt ID: [Q811C2](#), [Q3UYA5](#)

RefSeq Size: 2854

Cytogenetics: 4 C6

RefSeq ORF: 1377

Synonyms: Apg4-C; Apg4c; Atg4cl; Autl1

Summary: Cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3 and GABARAPL2, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms (By similarity). Is not essential for autophagy development under normal conditions but is required for a proper autophagic response under stressful conditions such as prolonged starvation.[UniProtKB/Swiss-Prot Function]