

## Product datasheet for **TP500653**

### Lamtor2 (NM\_031248) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse late endosomal/lysosomal adaptor, MAPK and MTOR activator 2 (Lamtor2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR200653 representing NM_031248 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MLRPKALTQVLSQANTGGVQSTLLLNNEGSL LAYSGYGDTDARVTA AIASNIWAAYDRNGNQAFNEDSLK FILMDCMEGRVAITRVANLLLCMYAKETVGF GMLKAKAQALVQYLEEPLTQVAAS
	<b>TR</b> TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	13.9 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:	<a href="#">NP_112538</a>
Locus ID:	83409
UniProt ID:	<a href="#">Q9JHS3</a>
RefSeq Size:	586
Cytogenetics:	3 F1
RefSeq ORF:	375



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**Synonyms:** 2010111E04Rik; AL022628; Mapbpip; P14; Rab25; Robld3

**Summary:** As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. Adapter protein that enhances the efficiency of the MAP kinase cascade facilitating the activation of MAPK2.[UniProtKB/Swiss-Prot Function]