

Product datasheet for PH309099

C7orf59 (LAMTOR4) (NM_001008395) Human Mass Spec Standard

Product data:

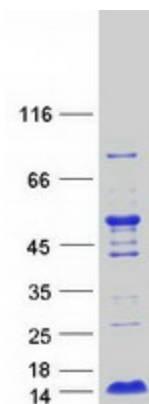
Product Type:	Mass Spec Standards
Description:	C7orf59 MS Standard C13 and N15-labeled recombinant protein (NP_001008396)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209099
Predicted MW:	10.7 kDa
Protein Sequence:	>RC209099 protein sequence Red =Cloning site Green =Tags(s) MTSALTQGLERIPDQLGYLVLSEGAVLASSGDLENDEQAASAISELVSTACGFRLHRGMNVPFKRLSVVF GEHTLLVTVSGQRVVFVVKRQNRGREPIDV TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001008396
RefSeq Size:	613
RefSeq ORF:	297
Synonyms:	C7orf59
Locus ID:	389541
UniProt ID:	Q0VGL1
Cytogenetics:	7q22.1



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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.[UniProtKB/Swiss-Prot Function]

Product images:

Coomassie blue staining of purified LAMTOR4 protein (Cat# [TP309099]). The protein was produced from HEK293T cells transfected with LAMTOR4 cDNA clone (Cat# [RC209099]) using MegaTran 2.0 (Cat# [TT210002]).