

## Product datasheet for PH300818

### MDS028 (ITFG2) (NM\_018463) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ITFG2 MS Standard C13 and N15-labeled recombinant protein (NP_060933)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200818
Predicted MW:	49.3 kDa
Protein Sequence:	>RC200818 protein sequence Red=Cloning site Green=Tags(s)

MRSVSYVQRVALEFSGSLFPHAIICLDVDNDTLNELVVGDTSGKVSVYKNDSDSRPWLTCSCQGMMLTCVGV  
GDVCNKGNLLVAVSAEGWFHLDLTPAKVLDAAGHETLIGEEQRPVFKQHIPANTKVMLISDIDGDGC  
RELVVGYTDRVVRFRWEELGEGPEHLTGQLVSLKKWMLGQVDSL SVTLGPLGLPELMVSQPGCAYAIL  
LCTWKKDGTGSPASEGPTDGSRETPAARDVVLHQTSGRHKNVSTHLIGNIKQGHGTESSGSLFALCT  
LDGTLKLEEMEEADKLLWSVQVDHQLFALEKLDVTGNGHEEVVACAWDGGQTYIIDHNRTVVRVQVDENI  
RAFCAGLYACKEGRNSPCLVYVTFNQKIYVYWEVQLERMESTNLVKLLETKPEYHSLQLGVDPPDDL PV  
TRALLHQTLYHPDQPPQCAPSSLQDPT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<u>NP_060933</u>
RefSeq Size:	2379
RefSeq ORF:	1341
Synonyms:	FGGAP1; MDS028



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Locus ID: 55846

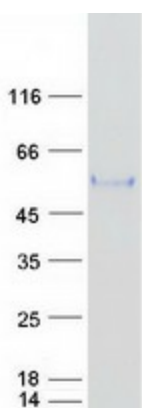
UniProt ID: [Q969R8](#), [A0A0S2Z5P1](#)

Cytogenetics: 12p13.33

**Summary:** As part of the KICSTOR complex functions in the amino acid-sensing branch of the TORC1 signaling pathway. Recruits, in an amino acid-independent manner, the GATOR1 complex to the lysosomal membranes and allows its interaction with GATOR2 and the RAG GTPases. Functions upstream of the RAG GTPases and is required to negatively regulate mTORC1 signaling in absence of amino acids. In absence of the KICSTOR complex mTORC1 is constitutively localized to the lysosome and activated. The KICSTOR complex is also probably involved in the regulation of mTORC1 by glucose.[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified ITFG2 protein (Cat# [TP300818]). The protein was produced from HEK293T cells transfected with ITFG2 cDNA clone (Cat# [RC200818]) using MegaTran 2.0 (Cat# [TT210002]).