

## Product datasheet for **TP300818M**

### MDS028 (ITFG2) (NM\_018463) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human integrin alpha FG-GAP repeat containing 2 (ITFG2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200818 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MRSVSYVQRVALEFSGSLFPHAICLGDVDNDLNLVVGDTSGKVSVKNDSDSRPWLTCSCQGMMLTCVGV GDVCNKGKNNLLVAVSAEGWFHFLDLPKAVLDASGHHETLIGEEQRPVFKQHIPANTKVMLISDIDGDGC RELVVGYTDRVVRAFRWEELGEGPEHLTGQLVSLKKWMLEGQVDSLVTLGPLPELMVSVQPGCAYAIL LCTWKKDTGSPASEGPTDGSRETPAARDVVLHQTSGRIHNKNVSTHLIGNIKQGHGTESSGSLFALCT LDGTLKLMEEEMEEADKLLWSVQVDHQLFALEKLDVTGNGHEEVACAWDGTQYIIDHNRTVVRVQVDENI RAFCAGLYACKEGRNSPCLVYVTFNQKIYVYWEVQLERMESTNLVKLLETKPEYHSLQLGLGVDPPDDL PVTRALLHQTLYHPDQPPQCAPSSLQDPT  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	49.1 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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:	<u><a href="#">NP_060933</a></u>



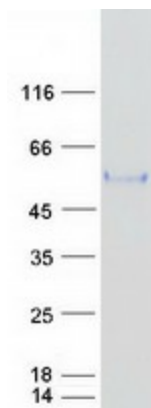
[View online »](#)

Locus ID: 55846  
UniProt ID: [Q969R8](#), [A0A0S2Z5P1](#)  
RefSeq Size: 2379  
Cytogenetics: 12p13.33  
RefSeq ORF: 1341  
Synonyms: FGGAP1; MDS028

**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]).