

## Product datasheet for PH303493

### RRAGA (NM\_006570) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RRAGA MS Standard C13 and N15-labeled recombinant protein (NP_006561)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203493
Predicted MW:	36.6 kDa
Protein Sequence:	>RC203493 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MPNTAMKKKVLMLMGKSGSGKTSMRSIIFANYIARDTRRLGATIDVEHSHVRFGLNVLNLWDCGGQDTFM ENYFTSQRDNI FRNVEVLIYVFDVESRELEKDMHYYSQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLI FKEREEDLRRLSRPLECACFRTSIWDETLYKAWSSIVYQLIPNVQQLMNLRNFAQIIIEADEVLLFERAT FLVISHYQCKEQRDVHRFEKISNIKQFKLSCSKLAASFQSMEVRNSNFAAFIDIFTSNTYVMVMSDPS IPSAATLINIRNARKHFEKLERVDGPKHSLLMR  <b>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</b>
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:	<a href="#">NP_006561</a>
RefSeq Size:	1657
RefSeq ORF:	939
Synonyms:	FIP-1; FIP1; RAGA
Locus ID:	10670



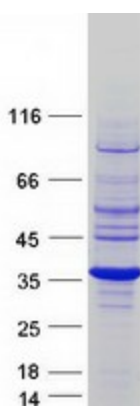
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UniProt ID: [Q7L523](#)

Cytogenetics: 9p22.1

**Summary:** Guanine nucleotide-binding protein that plays a crucial role in the cellular response to amino acid availability through regulation of the mTORC1 signaling cascade. Forms heterodimeric Rag complexes with RRAGC or RRAGD and cycles between an inactive GDP-bound and an active GTP-bound form. In its active form participates in the relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death.[UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified RRAGA protein (Cat# [TP303493]). The protein was produced from HEK293T cells transfected with RRAGA cDNA clone (Cat# [RC203493]) using MegaTran 2.0 (Cat# [TT210002]).