

## Product datasheet for PH304139

### RGS14 (NM\_006480) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RGS14 MS Standard C13 and N15-labeled recombinant protein (NP_006471)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204139
Predicted MW:	61.4 kDa
Protein Sequence:	>RC204139 protein sequence Red=Cloning site Green=Tags(s)

MPGKPKHLGVPNGRMVLAUSDGELSSTTGPQGQEGRGSSLSIHSPLSGPSSPFPTEEQPVASWALSFER  
LLQDPLGLAYFTEFLKKEFSAENVTFWKACERFQQIPASDTQQLAQEARNIYQEFLLSSQALSPVNIQRQA  
WLGEEVLAEPDMFRAQLQIFNLMKFDSYARFVKSPLYRECLLAEAGRPLREPSSRLGSPDATRKK  
PKLKPGKSLPLGVEELGQLPPVEGPGGRPLRKSFRRELGGTANAALRRESQGSLSASLDLGFVSS  
KSESHRSLGSTESESRPGKYCCVYLPDGTASLALARPGLTIRDMLAGICEKRGSLPDIKVVYLVGNE  
QALVLDQDCTVLADQEVRLNRIITFELELTALERVVIRISAKPTKRLQEALQPILEKHGLSPLEVLHRPG  
EKQPLDLGKLVSSVAAQRLVLDLTPGVKISKARDKSPCRSQGCPPTQDKATHPPASPSSLVKVPSSAT  
GKRQTCIEGLVELLNVRVQSSGAHDQRGLLRKEDLVLPEFLQLPAQGPSSEETPPQTKSAAQPIGGSLSN  
TTDSAL

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:	<a href="#">NP_006471</a>
RefSeq Size:	2418
RefSeq ORF:	1698



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Locus ID: 10636

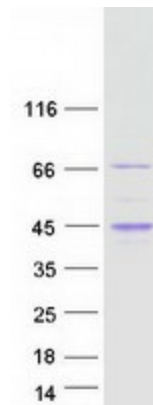
UniProt ID: [O43566](#)

Cytogenetics: 5q35.3

**Summary:** This gene encodes a member of the regulator of G-protein signaling family. This protein contains one RGS domain, two Raf-like Ras-binding domains (RBDs), and one GoLoco domain. The protein attenuates the signaling activity of G-proteins by binding, through its GoLoco domain, to specific types of activated, GTP-bound G alpha subunits. Acting as a GTPase activating protein (GAP), the protein increases the rate of conversion of the GTP to GDP. This hydrolysis allows the G alpha subunits to bind G beta/gamma subunit heterodimers, forming inactive G-protein heterotrimers, thereby terminating the signal. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified RGS14 protein (Cat# [TP304139]). The protein was produced from HEK293T cells transfected with RGS14 cDNA clone (Cat# [RC204139]) using MegaTran 2.0 (Cat# [TT210002]).