

## Product datasheet for TP304139M

### RGS14 (NM\_006480) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human regulator of G-protein signaling 14 (RGS14), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204139 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPGKPKHLGVPNGRMVLAVSDGELSSTTGPQQGEGRGSSLSIHSPLSPGSSPFPTEEQPVASWALSFER  
LLQDPLGLAYFTEFLKKEFSAENVTFWKACERFQQIPASDTQQLAQEARNIYQEFLLSQALSPVNIDRQA  
WLGEEVLAERPRDMFRAQQQLQIFNLMKFDSYARFVKSPLYRECLLAEAEGRPLREPGSSRLGSPDATRKK  
PKLKPGKSLPLGVEELGQLPPVEGPGGRPLRKSFRRELGGTANAALRRESQGSLSNASSALDLGFLAFVSS  
KSESHRKSLSGTEGESESRPGKYCCVYLPDGASLALARPGLTIRDMLAGICEKRGSLSPDIKVVYLVGNE  
QALVLDQDCTVLADQEVRLNRTFELELTALERVVRISAKPTKRLQEALQPILEKHGLSPLEVLHRPG  
EKQPLDLGKLVSSVAAQRLVLDLTPGVKISKARDKSPCRSQGCPPTQDKATHPPASPSSLVKVPSSAT  
GKRQTCDIEGLVELLNRVQSSGAHDQRGLLRKEDLVLPFLQLPAQGPSSEETPPQTKSAAQPIGGSLNS  
TTDSAL

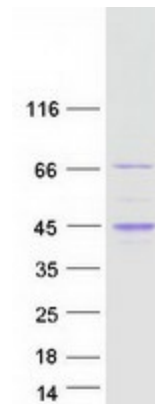
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	61.3 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.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_006471</a>
<b>Locus ID:</b>	10636
<b>UniProt ID:</b>	<a href="#">O43566</a>
<b>RefSeq Size:</b>	2418
<b>Cytogenetics:</b>	5q35.3
<b>RefSeq ORF:</b>	1698
<b>Summary:</b>	<p>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]</p>
<b>Protein Families:</b>	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]).