

## Product datasheet for **TP508709**

### **Rgs14 (NM\_016758) Mouse Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse regulator of G-protein signaling 14 (Rgs14), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208709 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPGKPKHLGVPNGRMVLAVSDGELTSTAGSQAQGEGRGSSLSIHSLSGSPSSPFSTEEQPVASWAQSFER  
LLQDPRGLAYFTEFLKKEFAENVTFWKACERFQQIPASDTKQLAQEAHNIYHEFLSSQALSPVNIDRQA  
WLSEEVLAQPRPDMFRAQQLQIFNLMKFDSYARFVKSPLYQECLLAEAEGRPLREPSSHLGSPDTARKK  
PKLKPGKSLPLGVEELGQLPLAEGPCGRPLRKSFRREMTGGAMNSALRRESQGSLNSSASLDLGFALFVS  
SKSESHRKSLSGSESESRPGKYCCVYLPDGTASLALARPGLTIRDMLAGICEKRGLSLPDIKVYLVGN  
EQKALVLDQDCTVLADQEVRLNRTFQLELVGLERVVRSAPTKRLQEALQPILAKHGLSLDQVVLHR  
PGEKQPMLENPVSSVASQTLVLDTPDAKMSEARSISPCRSQGCLPRTQTKDLSLPPSSSSLLVEDASS  
STGNRQTCDIEGLVELLNVRVQSSGAHDQRGLLRKEDLVLPFLQLPSQRPGSREAPP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	59.8 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
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 after receiving vials.
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_058038</a></u>



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Locus ID:	51791
UniProt ID:	<a href="#">P97492</a>
RefSeq Size:	2356
Cytogenetics:	13 29.8 cM
RefSeq ORF:	1644
Synonyms:	RPIP1
Summary:	<p>Regulates G protein-coupled receptor signaling cascades. Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound form. Besides, modulates signal transduction via G protein alpha subunits by functioning as a GDP-dissociation inhibitor (GDI). Has GDI activity on G(i) alpha subunits GNAI1 and GNAI3, but not on GNAI2 and G(o) alpha subunit GNAO1. Has GAP activity on GNAI0, GNAI2 and GNAI3. May act as a scaffold integrating G protein and Ras/Raf MAPkinase signaling pathways. Inhibits platelet-derived growth factor (PDGF)-stimulated ERK1/ERK2 phosphorylation; a process depending on its interaction with HRAS and that is reversed by G(i) alpha subunit GNAI1. Acts as a positive modulator of microtubule polymerisation and spindle organization through a G(i)-alpha-dependent mechanism. Plays a role in cell division; required for completion of the first mitotic division of the embryo. Involved in visual memory processing capacity; when overexpressed in the V2 secondary visual cortex area. Involved in hippocampal-based learning and memory; acts as a suppressor of synaptic plasticity in CA2 neurons. Required for the nerve growth factor (NGF)-mediated neurite outgrowth. Involved in stress resistance.[UniProtKB/Swiss-Prot Function]</p>