

# Product datasheet for TP305284

### RGS7 (NM\_002924) Human Recombinant Protein

### **Product data:**

#### **Product Type: Recombinant Proteins** Recombinant protein of human regulator of G-protein signaling 7 (RGS7), 20 µg **Description:** Species: Human HEK293T **Expression Host: Expression cDNA Clone** >RC205284 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s) MAQGNNYGQTSNGVADESPNMLVYRKMEDVIARMQDEKNGIPIRTVKSFLSKIPSVFSGSDIVQWLIKNL TIEDPVEALHLGTLMAAHGYFFPISDHVLTLKDDGTFYRFQTPYFWPSNCWEPENTDYAVYLCKRTMQNK ARLELADYEAESLARLQRAFARKWEFIFMQAEAQAKVDKKRDKIERKILDSQERAFWDVHRPVPGCVNTT EVDIKKSSRMRNPHKTRKSVYGLQNDIRSHSPTHTPTPETKPPTEDELQQQIKYWQIQLDRHRLKMSKVA DSLLSYTEQYLEYDPFLLPPDPSNPWLSDDTTFWELEASKEPSQQRVKRWGFGMDEALKDPVGREQFLKF LESEFSSENLRFWLAVEDLKKRPIKEVPSRVQEIWQEFLAPGAPSAINLDSKSYDKTTHNVKEPGRYTFE DAQEHIYKLMKSDSYPRFIRSSAYQELLQAKKKSGNSMDRRTSFEKFAQNVGKSLTSKRLTSLAQSY **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** C-Myc/DDK Tag: Predicted MW: 56.6 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 Recombinant protein was captured through anti-DDK affinity column followed by **Preparation:** 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. Store at -80°C. Storage: Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. NP 002915 RefSeq:



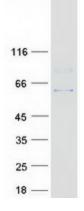
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

	RGS7 (NM_002924) Human Recombinant Protein – TP305284
Locus ID:	6000
UniProt ID:	<u>P49802</u>
RefSeq Size:	2495
Cytogenetics:	1q23.1
RefSeq ORF:	1461
Summary:	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 (PubMed:10521509, PubMed:10862767). The RGS7/GNB5 dimer enhances GNAO1 GTPase activity (PubMed:10521509). May play a role in synaptic vesicle exocytosis (PubMed:12659861). Modulates the activity of potassium channels that are activated by GNAO1 in response to muscarinic acetylcholine receptor M2/CHRM2 signaling (PubMed:15897264).[UniProtKB/Swiss-Prot Function]
Protein Families	: Druggable Genome

## **Product images:**



Coomassie blue staining of purified RGS7 protein (Cat# TP305284). The protein was produced from HEK293T cells transfected with RGS7 cDNA clone (Cat# [RC205284]) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US