

Product datasheet for **TP306595**

GCAP1 (GUCA1A) (NM_000409) Human Recombinant Protein

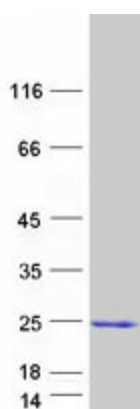
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human guanylate cyclase activator 1A (retina) (GUCA1A), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206595 protein sequence Red =Cloning site Green =Tags(s)
	 MGNVMEGKSVEELSSTECHQWYKKFMTECPGQLTYEFRQFFGLKNLSPSASQYVEQMFETFDNKG IDFMEYVAALSLVLKGVKVEQKLRWYFKLYDVDGNGCIDRDELLTIIQAIRAINPCSDTTMTAEFTDTVF SKIDVNGDGELSLEEFIEGVQKDQMLLDTLRSLLDLTRIVRRLQNGEQDEEGADEAAEAAG TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	22.7 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.
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>NP_000400</u>
Locus ID:	2978
UniProt ID:	<u>P43080</u>
RefSeq Size:	1918



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Cytogenetics:	6p21.1
RefSeq ORF:	603
Synonyms:	GUCA1A; GUCA1ANB-GUCA1A
Summary:	This gene encodes an enzyme that plays a role in the recovery of retinal photoreceptors from photobleaching. This enzyme promotes the activity of retinal guanylyl cyclase-1 (GC1) at low calcium concentrations and inhibits GC1 at high calcium concentrations. Mutations in this gene can cause cone dystrophy 3 and code-rod dystrophy 14. provided by RefSeq, Jul 2020]
Protein Families:	Druggable Genome
Protein Pathways:	Olfactory transduction

Product images:

Coomassie blue staining of purified GUCA1A protein (Cat# TP306595). The protein was produced from HEK293T cells transfected with GUCA1A cDNA clone (Cat# [RC206595]) using MegaTran 2.0 (Cat# [TT210002]).