

Product datasheet for **TP306595M**

GCAP1 (GUCA1A) (NM_000409) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human guanylate cyclase activator 1A (retina) (GUCA1A), 100 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC206595 protein sequence
Red=Cloning site **Green**=Tags(s)

MGNVMEGKSVEELSSTECHQWYKKFMTECPGQLTYEFRQFFGLKNLSPSASQYVEQMFEFFDFNKG
IDFMEYVAALSLVLKGVKVEQKLRWYFKLYDVDGNGCIDRDELLTIIQAIRAINPCSDTTMTAEFFDTVF
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: [NP_000400](#)

Locus ID: 2978

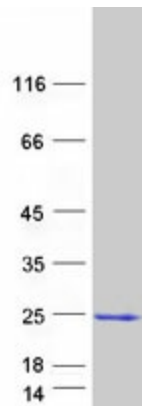
UniProt ID: [P43080](#)

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]).