

Product Information

MemDX™ Membrane Protein Human GUCY2D (Guanylate cyclase 2D, retinal) for Antibody

Discovery

Cat. No.: **MP0827J**

This product is for research use only and is not intended for diagnostic use.

This product is a 119.9 kDa Human GUCY2D membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

GUCY2D

Protein Length

Full-length

Protein Class

Druggable Genome, Protein Kinase, Transmembrane

Molecular Weight

119.9 kDa

TMD

1

Sequence

MTACARRAGGLPDPGLCGPAWWAPSLPRLPRALPRLPLLLLLLLLQPPALSAVFTVGVLPWACDPIFSR
ARPDLAARLAAARLNRPGLAGGPRFEVALLPEPCRTPGSLGAVSSALARVSGLVGPVNPAACRPAELLA
EEAGIALVPWGPCPWTQAEAGTTAPAVTPAADALYALLRAFGWARVALVTAPQDLWVEAGRSLSTALRARGL
PVASVTSMEPLDLSGAREALRKVRDGPRTAVIMVMHVSLLGGEEQRYLLEAAEELGLTDGSLVFLPFDT
IHYALSPGPEALAAANSSQLRRAHDAVLTLTRHCPSEGSVLDLRRRAQERRELPDDLNLQQVSPPLFGTI
YDAVFLARGVAEAAAAGGRWVSGAAVARHIRDAQVPGFCGDLGGDEEPPFVLLDTPDAAGDRLFATYML
DPARGSFLSAGTRMHFPRGGSAPGPDPCWFDPNNICGGGLEPGLVFLGFLLVVGMGLAGAFLAHYVRHR
LLHMQMVSGPNKIILTVDDITFLPHGGTSRKVAQGSRSSLGARMSDIRSGPSQHLDSPNIGVYEGDRV
WLKKFPGDQGHAIIRPATKTAFSKLQELRHENVALYGLFLARGAEGPAALWEGNLAVVSEHCTRGSQDL
LAQREIKLDWMFKSSLLDLIKGIRYLHHRGVAGHRLKSRNCIVDGRFVLKITDHGHGRLLAEQKVLPEP
PRAEDQLWTAPELLRDPALERRGTLAGDVFSLAIMQEVVCRSAPYAMLELTPEEVVQVRVRSPPPLCRPL
VSMDQAPVECILLMKQCWAEQPELRPSMDHTFDLFDKLNKGRKTNIDSMRLRMLEQYSSNLEDLIRERTE
ELELEKQKTDRLLTQMLPPSVAEALKTGTPVEPEYFEQVTLYFSDIVGFTTISAMSEPIEVVDLLNDLYT
LFDIIGSHDVYKVETIGDAYMVASGLPQRNGQRHAAEIANMSLDILSAVGTFMRMRHMPEVPVRIRIGLH
SGPCVAGVVGLTMPRYCLFGDTVNTASRMESTGLPYRIHVNLSTVGILRALDSGYQVELRGRTTELKKGKA
EDTFWLVGRRGFNPKPIKPPDLQPGSSNHGISLQEIPERRRKLEKARPGQFS

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

GUCY2D

Full Name

Guanylate cyclase 2D, retinal

Introduction

This gene encodes a retina-specific guanylate cyclase, which is a member of the membrane guanylyl cyclase family. Like other membrane guanylyl cyclases, this enzyme has a hydrophobic amino-terminal signal sequence followed by a large extracellular domain, a single membrane spanning domain, a kinase homology domain, and a guanylyl cyclase catalytic domain. In contrast to other membrane guanylyl cyclases, this enzyme is not activated by natriuretic peptides. Mutations in this gene result in Leber congenital amaurosis and cone-rod dystrophy-6 diseases.

Alternative Names

LCA; CG-E; CYGD; LCA1; RCD2; CACD1; CORD5; CORD6; GUC2D; ROSGC; retGC; CSNB1I; GUC1A4; RETGC-1; ROS-GC1

Gene ID

[3000](#)

UniProt ID

[Q02846](#)