

Product Information

MemDX™ Membrane Protein Human GUCY2F (Guanylate cyclase 2F, retinal) Full Length

Cat. No.: **MPC3748K**

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

This product is a made-to-order Human GUCY2F membrane protein expressed in HEK293. 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

GUCY2F

Protein Length

Full length

Protein Class

Receptor

TMD

1

Sequence

MFLGLGRFSRLVLWFAAFRKLGLHHGLASAKFLWCLCLLSVMSLPQQVWT
LPYKIGVVGPWACDSLFSKALPEVAARLAIERINRDPSFDLSYSFEYVIL
NEDCQTSRALSSSFISHHQMASGFIGPTNPGYCEASLLGNSWDKGIFSWA
CVNYELDNKISYPTFSRTLPSPIRVLVTVMKYFQWAHAGVISSDEDIWVH
TANRVASALRSHGLPVGVLTGQDSQSMRKALQRIHQADRIRIIIMCMH
SALIGGETQMHLLECAHDLKMTDGTYYFVPYDALLYSLPYKHTPYRVLRN
NPKLREAYDAVLTITVESQEKTFYQAFTEAAARGEIPEKLEFDQVSPLFG
TIYNSIYFIAQAMNNAMKENGQAGAASLVQHSRNMQFHGFNQLMRTDSNG
NGISEYVILDTNLKEWELHSTYTVDMEMELLRFGGTPIHFPGGRPPRADA
KCWFAEGKICHGGIDPAFAMMVCLTLLIALLSINGFAYFIRRRINKIQLI
KGPNRILLTLEDVTFINPHFGSKRGSRASVSFQITSEVQSGRSPRLSFSS
GSLTPATYENSNAIYEGDWVWLKKFSLGDFGDLKSIKSRASDVFEMMKD
LRHENINPLLGGFYDSGMFAIVTEFCSRGSLEDILTNDQDVKLDWMFKSSL
LLDLIKGMKYLHHREFVHGRLKSRNCVVDGRFVLKVTDYGFNDILEMLRL
SEEESSMEELLWTAPELLRAPRGSRLGSFAGDVYSFAIIMQEVVMVRGTPF
CMMDLPAQEIINRLKKPPPVRPVVPEHAPPECLQLMKQCWAEAAEQRP
TFDEIFNQFKTFNKGKKTNIIDSMRLMLEQYSSNLEDLIRERTEELEIEK
QKTEKLLTQMLPPSVAESLKKGCTVEPEGFDLVTLYFSDIVGFTTISAMS
EPIEVVDLLNDLYTLFDAIGSHDVYKVETIGDAYMVASGLPKRNGSRHA
AEIANMSLDILSSVGTFKMRHMPVVRIRIGLHSGPVVAGVVGLTMPRY
CLFGDTVNTASRMESTGLPYRIHVSLSTVTILQNLSEGYEVELRGRTELK
GKGTEETFWLIGKKGFMKPLPVPPPVDKDGQVGHGLQPVEIAAFQRRKAE
RQLVRNKP

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

GUCY2F

Full Name

Guanylate cyclase 2F, retinal

Introduction

The protein encoded by this gene is a guanylyl cyclase found predominantly in photoreceptors in the retina. The encoded protein is thought to be involved in resynthesis of cGMP after light activation of the visual signal transduction cascade, allowing a return to the dark state. This protein is a single-pass type I membrane protein. Defects in this gene may be a cause of X-linked retinitis pigmentosa.

Alternative Names

GUCY2F; CYGF; GC-F; GUC2F; GUC2DL; RETGC-2; ROS-GC2; retinal guanylyl cyclase 2; guanylate cyclase 2D-like, membrane (retina-specific); guanylate cyclase F; rod outer segment membrane guanylate cyclase 2; Guanylate cyclase 2F, retinal

Gene ID

[2986](#)

UniProt ID

[P51841](#)