Recombinant Human GUCY2D Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. GUCY2D-182H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GUCY2D MS Standard C13 and N15-labeled recombinant protein (NP_000171) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. [provided by RefSeq, Dec 2008]
Molecular Mass	119.9 kDa
AA Sequence	MTACARRAGGLPDPGLCGPAWWAPSLPRLPRALPRLPLLLLLLLLQPPALSAVFTVG VLGPWACDPIFSRARPDLAARLAAARLNRDPGLAGGPRFEVALLPEPCRTPGSLGA VSSALARVSGLVGPVNPAACRPAELLAEEAGIALVPWGCPWTQAEGTTAPAVTPAA DALYALLRAFGWARVALVTAPQDLWVEAGRSLSTALRARGLPVASVTSMEPLDLSG AREALRKVRDGPRVTAVIMVMHSVLLGGEEQRYLLEAAEELGLTDGSLVFLPFDTIH

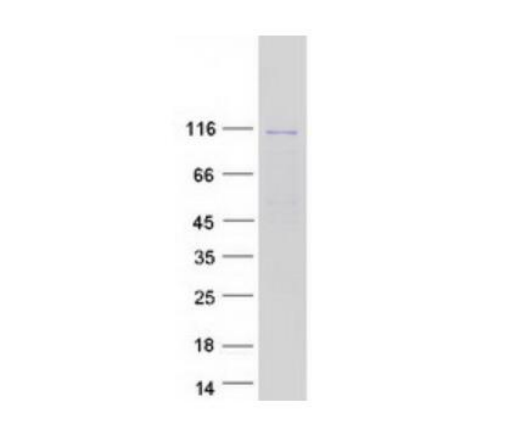
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	YALSPGPEALAALANSSQLRRAHDAVLTLTRHCPSEGSVLDSLRRAQERRELPSDL NLQQVSPLFGTIYDAVFLLARGVAEARAAAGGRWVSGAAVARHIRDAQVPGFCGDL GGDEEPPFVLLDTDAAGDRLFATYMLDPARGSFLSAGTRMHFPRGGSAPGPDPSC WFDPNNICGGGLEPGLVFLGFLLVVGMGLAGAFLAHYVRHRLLHMQMVSGPNKIILT VDDITFLHPHGGTSRKVAQGSRSSLGARSMSDIRSGPSQHLDSPNIGVYEGDRVWL KKFPGDQHIAIRPATKTAFSKLQELRHENVALYLGLFLARGAEGPAALWEGNLAVVS EHCTRGSLQDLLAQREIKLDWMFKSSLLLDLIKGIRYLHHRGVAHGRLKSRNCIVDG RFVLKITDHGHGRLLEAQKVLPEPPRAEDQLWTAPELLRDPALERRGTLAGDVFSLA IIMQEVVCRSAPYAMLELTPEEVVQRVRSPPPLCRPLVSMDQAPVECILLMKQCWAE QPELRPSMDHTFDLFKNINKGRKTNIIDSMLRMLEQYSSNLEDLIRERTEELELEKQK TDRLLTQMLPPSVAEALKTGTPVEPEYFEQVTLYFSDIVGFTTISAMSEPIEVVDLLND LYTLFDAIIGSHDVYKVETIGDAYMVASGLPQRNGQRHAAEIANMSLDILSAVGTFRM RHMPEVPVRIRIGLHSGPCVAGVVGLTMPRYCLFGDTVNTASRMESTGLPYRIHVNL STVGILRALDSGYQVELRGRTELKGKGAEDTFWLVGRRGFNKPIPKPPDLQPGSSN HGISLQEIPPERRRKLEKARPGQFSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GUCY2D guanylate cyclase 2D, membrane (retina-specific) [Homo sapiens (human)

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Official Symbol	GUCY2D
Synonyms	GUCY2D; guanylate cyclase 2D, membrane (retina-specific); cone rod dystrophy 5/6, CORD5, CORD6, GUC1A4, GUC2D, LCA; retinal guanylyl cyclase 1; CYGD; LCA1; retGC; RETGC 1; ROS GC1; ROS-GC; guanylate cyclase 2D, retinal; rod outer segment membrane guanylate cyclase; LCA; RCD2; CORD5; CORD6; GUC2D; ROSGC; GUC1A4; RETGC-1; ROS-GC1;
Gene ID	3000
mRNA Refseq	NM_000180
Protein Refseq	NP_000171
MIM	600179
UniProt ID	Q02846
SDS-PAGE	

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