

## Recombinant Human GUCY2D Protein, MYC/DDK-tagged

Cat. No. GUCY2D-2548H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GUCY2D protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Form</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	119.9 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

### GENE INFORMATION

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<b>Gene Name</b>	GUCY2D guanylate cyclase 2D, membrane (retina-specific) [ Homo sapiens ]
<b>Official Symbol</b>	GUCY2D
<b>Synonyms</b>	CORD5; CORD6; CYGD; GUC1A4; GUC2D; LCA; LCA1; RCD2; retGC; RETGC-1; ROS-GC1; ROSGC
<b>Gene ID</b>	3000
<b>mRNA Refseq</b>	NM_000180
<b>Protein Refseq</b>	NP_000171
<b>MIM</b>	600179
<b>UniProt ID</b>	Q02846

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