

Product datasheet for **RC218368L4V**

GUCY2D (NM_000180) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GUCY2D (NM_000180) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GUCY2D
Synonyms:	CACD1; CG-E; CORD5; CORD6; CSNB11; CYGD; GUC1A4; GUC2D; LCA; LCA1; RCD2; retGC; RETGC-1; ROS-GC1; ROSGC
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000180
ORF Size:	3309 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218368).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_000180.1
RefSeq Size:	3621 bp
RefSeq ORF:	3312 bp
Locus ID:	3000
UniProt ID:	Q02846
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane



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Protein Pathways: Olfactory transduction, Purine metabolism

MW: 119.9 kDa

Gene Summary: 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]