

## Product datasheet for RC217886L3

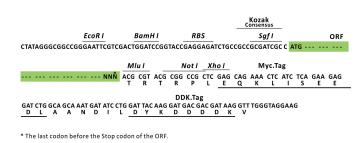
## GCSH (NM\_004483) Human Tagged Lenti ORF Clone

## **Product data:**

## OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	GCSH (NM_004483) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	GCSH
Synonyms:	GCE; NKH
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217886).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1         ORF         Mlu1            GCG ATC GC/C         ATG //         NNN ACG CGT



ACCN: ORF Size: NM\_004483 519 bp



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GCSH (NM_004483) Human Tagged Lenti ORF Clone – RC217886L3	
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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
RefSeq:	<u>NM 004483.3</u>
RefSeq Size:	1161 bp
RefSeq ORF:	522 bp
Locus ID:	2653
UniProt ID:	<u>P23434</u>
Cytogenetics:	16q23.2
Domains:	GCV_H
MW:	18.91 kDa
Gene Summary:	Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). The protein encoded by this gene is the H protein, which transfers the methylamine group of glycine from the P protein to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH). Two

exist throughout the genome.[provided by RefSeq, Jan 2010]

transcript variants, one protein-coding and the other probably not protein-coding, have been found for this gene. Also, several transcribed and non-transcribed pseudogenes of this gene

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