

Product datasheet for **RG206288**

Ceramide glucosyltransferase (UGCG) (NM_003358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceramide glucosyltransferase (UGCG) (NM_003358) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ceramide glucosyltransferase
Synonyms:	GCS; GLCT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206288 representing NM_003358 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCTGGACCTGGCCTTGGAGGGAATGGCCGTCTTCGGGTTCTGCCTCTTCTTGGTGCTGTGGC
TGATGCATTTTCATGGCTATCATCTACACCCGATTACACCTCAACAAGAAGGCAACTGACAAAACAGCCTTA
TAGCAAGTCCCAGGTGTCTCTTCTGAAACCACTGAAAGGGTAGATCCTAATCAACAACCTG
GAAACATCTTTGAATTGGATTATCCAAATATGAAGTGCTCCTTTGTGTACAAGATCATGATGATCCAG
CCATTGATGTATGAAGAAGCTTCTGGAAAATATCCAAATGTTGATGCTAGATTGTTTATAGGTGGCAA
AAAAGTTGGCATTAACTCTAAAATTAATAATTTAATGCCAGGATATGAAGTTGCAAAGTATGATCTTATA
TGGATTTGTGATAGTGAATAAGAGTAATTCAGATACACTTACTGACATGGTGAATCAAATGACAGAAA
AAGTAGGCTTGGTTCACGGGCTGCCTACGTAGCAGACAGACAGGGCTTTGCTGCCACCTTAGAGCAGGT
ATATTTTGAACCTCACATCCAAGATACTATCTCTGCCAATGTAACCTGGTTTCAAATGTGTGACAGGA
ATGTCTTGTAAATGAGAAAAGATGTGTGGATCAAGCAGGAGGACTTATAGCTTTTGTCTCAGTACATTG
CCGAAGATTACTTTATGGCCAAAGCGATAGCTGACCGAGGTTGGAGGTTGCAATGTCCACTCAAGTTGC
AATGCAAACTCTGGCTCATATCAATTTCTCAGTTTCAATCCAGAATGATCAGGTGGACCAAACTACGA
ATTAACATGCTTCTGCTACAATAATTTGTGAGCCAATTCAGAATGCTTTGTTGCCAGTTAATTTATTG
GATGGGCAGCCACCATGTGTTCCAGATGGGATATTATGGTATTTTTCATGTGTCATTGCCTGGCATGGTT
TATATTTGACTACATTCAACTCAGGGGTGTCCAGGGTGGCACACTGTGTTTTTCAAACCTTGATTATGCA
GTCGCCTGGTTATCCGCGAATCCATGACAATATACATTTTTTGTCTGCATTATGGGACCAACTATAA
GCTGGAGAACTGGTGCCTACAGATTACGCTGTGGGGTACAGCAGAGGAAATCCTAGATGTA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206288 representing NM_003358
 Red=Cloning site Green=Tags(s)

MALLDLALEGMVFGFVLFVLVWLMHFMAIIYTRLHLNKKATDKQPYSKLPVSVLLKPLKGVDPNLINNL
 ETFFELDYPKYEVLCCVQDHDPAIDVCKKLLGKYPNVDARLF IGKKVGINPKINNLMPGYEVAKYDLI
 WICDSGIRVIPDTLTDVMNQMTKEVGLVHGLPYVADRQGF AATLEQVYFGTSHPRYYISANVTGFKCVTG
 MSCLMRKDVLDQAGGLIAFAQYIAEDYFMAKAIADRGWRFAMSTQVAMQNSGSYSISQFQSRMIRWTKLR
 INMLPATIICEPISECFVASLIIGWAAHHVFRWDMVFFMCHCLAWFIFDYIQLRGVQGGTLCFSKLDYA
 VAWFIRESMTIYIFLSALWDPTISWRTGRYRLRCGGTAEIEILDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003358

ORF Size: 1182 bp

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.

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:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. 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.

RefSeq: [NM_003358.1](#), [NP_003349.1](#)

RefSeq Size: 1637 bp

RefSeq ORF: 1185 bp

Locus ID: 7357

UniProt ID: [Q16739](#)

Cytogenetics: 9q31.3

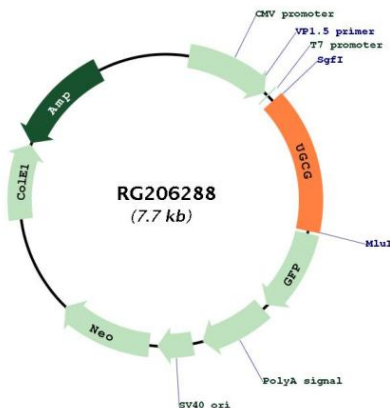
Domains: Glycos_transf_2

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary: This gene encodes an enzyme that catalyzes the first glycosylation step in the biosynthesis of glycosphingolipids, which are membrane components containing lipid and sugar moieties. The product of this reaction is glucosylceramide, which is the core structure of many glycosphingolipids. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RG206288