

Product datasheet for **RC210442**

UGT8 (NM_003360) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT8 (NM_003360) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT8
Synonyms:	CGT; UGT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC210442 representing NM_003360
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGTCTTACACTCCATATTTTATTCTCTGTGGAGTCTGTTGGGATAGCGAAGGCTGCCAAAATCA
 TCATCGTGCCCAATTATGTTTGAAAGCCATATGTACATTTTCAAGACGCTAGCCTCAGCCTTGACACGA
 GAGAGGCCACCATAACAGTGTTCCTCTCTGAAGGCAGAGACATCGCCCATCTAATCATTACAGCCTC
 CAGCGCTACCCAGGGATCTTAAACAGTACCACCTCAGATGCTTTTCTACAGTCCAAGATGCGGAATATTT
 TCTCTGGGAGATTGACAGCAATCGAACTGTTTGACATACTGGATCACTATACTAAGAACTGTGACCTGAT
 GGTTGGCAACCATGCCCTGATCCAGGGTCTGAAGAAAGAAAAATTTGACCTGCTGCTGGTGGACCCTAAT
 GATATGTGTGGATTTGTGATAGCTCATCTTTAGGGTTAAATATGCTGTATTTTCAACTGGCCTTTGGT
 ATCCTGCTGAAGTGGGTCTCTGCTCCATTAGCATACTGCCAGAGTTTAACTCACTCCTCACAGACCG
 CATGAAGTTGCTCAAAGGATGAAAAATACCGGTGTTTACCTCATTCCAGATTAGGGTTCAGCTTTCTG
 GTTCTTCCAAAATATGAAAGGATAATGCAGAAGTACAACCTGCTGCCGGAGAAGTCCATGTATGATTTGG
 TTCATGGGTCCAGCCTGTGGATGCTGTGTACTGACGTAGCACTGGAATCCCAAGACCCACTCTGCCTAA
 TGTTGTTTATGTAGGAGGAATCCTAACCAACCAGCCAGCCCACTACCAGAAAGTCTCCAAGATGGGTA
 AATGGTGCTAATGAACATGGCTTTGCTTTGGTGTCTTTGGAGCTGGTGTCAAGTATCTGTCAGAAGACA
 TTGCTAACAACTGGCAGGAGCTCTGGGAGATTGCTCAAAGTGAATTTGGAGGTTTTCTGGACCCAA
 ACCAAAGAATCTAGGAAACAACACTAACTCATAGAATGGTTACCACAAAATGACCTGCTGGGCATTCA
 AAGATTAAGCCTTCTGAGCCATGGTGGTTTGAACAGTATTTTGAAGTATGTATCATGGTGTGCCTG
 TAGTGGGAATCCACTCTTTGGAGACCATTATGATACTATGACCAGAGTACAGGCAAAAGGCATGGGGAT
 ATTGCTAGAATGGAAGACAGTTACTGAAAAAGAGCTCTATGAAGCACTAGTGAAGGTTATCAATAATCCC
 AGCTACCGTCAGAGGGCTCAGAAGCTTTTCGAAAATTCACAAGGATCAACCTGGTCAACCTGTCAATCGAA
 CTATCTATTGGATAGATTATATTTCGTACAATGGAGCCCATCACCTACGTGCCGCTGTCCATCAGAT
 CTCCTTTTGTGAGTATTTTACTGGATATTGCCTTTGTGCTTTTGTGGTGTGCCTTGTATACTTT
 CTCTTGCTTGGGTGACAAAATTTATCTACAGAAAAATCAAAGTCTGTGGTCTAGAAAATAGCATAGCA
 CAGTTAATGGACATTACCACAATGGAATCCTCAATGGCAAGTACAAAAGAAATGGCCATATTAACATGA
 AAAGAAAGTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210442 representing NM_003360
 Red=Cloning site Green=Tags(s)

MKSYTPYFILLWSAVGIAKAAKIIIVPPIMFESHMYIFKTLASALHERGHHTVFLFLLSEGRDIAPSNHYSL
 QRYPGIFNSTTSDAFLQSKMRNIFSGRLTAIELFDILDHYTKNCDLMVGNHALIQGLKKEKFDLLLVDPN
 DMCGFVIAHLLGVKYAVFSTGLWYPAEVGAPAPLAYVPEFNSLLTDRMNLQRMKNTGVYLISRLGVSFL
 VLPKYERIMQYNLLPEKSMYDLVHGSSLWMLCTDVALEFPRTLPNVVYVGGILTKPASPLPEDLQRWV
 NGANEHGFVLVSFGAGVKYLSEDIANKLAGALGRLPQKVIWRFSGPKPKNLGNNTKLEIWLQNDLLGHS
 KIKAFLSHGGLNSIFETMYHGVPVVGIPLFGDHYDTMTRVQAKGMGILLEWKTVEKELYEALVKVINNP
 SYRQRAQKLSIHKDQPGHPVNRTIYWIDYIIRHNGAHLRAAVHQISFCQYFLLDIAFVLLLGALLYF
 LLSWVTKFIYRKIKSLWSRNKHSTVNGHYHNGILNGKYKRNGHIKHEKVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN:

NM_003360

ORF Size:

1623 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_003360.4](#)

RefSeq Size: 2448 bp

RefSeq ORF: 1626 bp

Locus ID: 7368

UniProt ID: [Q16880](#)

Cytogenetics: 4q26

Domains: UDPGT

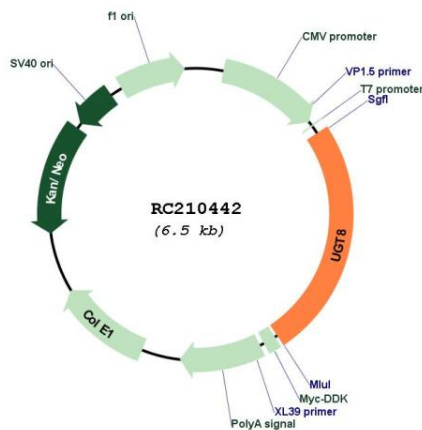
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

MW: 61.3 kDa

Gene Summary: The protein encoded by this gene belongs to the UDP-glycosyltransferase family. It catalyzes the transfer of galactose to ceramide, a key enzymatic step in the biosynthesis of galactocerebrosides, which are abundant sphingolipids of the myelin membrane of the central and peripheral nervous systems. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC210442