

Product datasheet for **SC118055**

UGT8 (NM_003360) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT8 (NM_003360) Human Untagged Clone
Tag:	Tag Free
Symbol:	UGT8
Synonyms:	CGT; UGT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003360, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTCTTACACTCCATATTTTATTCTCTGTGGAGTGTCTGTTGGGATAGCGAAGGCTGCCAAAATCA
TCATCGTGCCGCAATTATGTTTGAAGCCATATGTACATTTTCAAGACGCTAGCCTCAGCCTTGACAGCA
GAGAGGCCACCATACAGTGTTCCTCTCTGAAGGCAGAGACATCGCCCATCTAATCATTACAGCCTC
CAGCGCTACCCAGGGATCTTTAACAGTACCACCTCAGATGCTTTTCTACAGTCCAAGATGCGGAATATTT
TCTCTGGGAGATTGACAGCAATCGAACTGTTTGACATACTGGATCACTATACTAAGAACTGTGACCTGAT
GGTTGGCAACCATGCCCTGATCCAGGTCTGAAGAAAAGAAAAATTTGACCTGCTGCTGGTGGACCCTAAT
GATATGTGTGGATTTGTGATAGCTCATCTTTTAGGGTTAAATATGCTGTATTTTCAACTGGCCTTTGGT
ATCCTGCTGAAGTGGTGTCTCTGCTCCATTAGCATACGTCCCAGAGTTTAACTCACTCCTCACAGACCG
CATGAACCTGCTGCAAAGGATGAAAAATACCGGTGTTTACCTCATTTCCAGATTAGGGTTCAGCTTTCTG
GTTCTTCCAAAATGAAAGGATAATGCAGAAGTACAACCTGCTGCCGAGAAGTCCATGTATGATTTGG
TTCATGGTCCAGCCTGTGGATGTGTACTGACGTAGCACTGGAATCCCAAGACCCACTCTGCCTAA
TGTTGTTTATGTAGGAGGAATCCTAACCAACCCAGCCAGCCACTACCAGAAGATCTCCAAGATGGGTA
AATGGTGTAAATGAACATGGCTTTGTCTTGGTGTCTTTGGAGCTGGTGTCAAGTATCTGTGAGAAGACA
TTGCTAACAACTGGCAGGAGCTCTGGGGAGATTGCCCTAAAAAGTGATTTGGAGTTTTCTGGACCCAA
ACCAAAGAATCTAGGAAACAACACTAACTCATAGAATGGTTACCACAAAATGACCTGCTGGGCATTCA
AAGATTAAGCCTTCTGAGCCATGGTGGTTTGAACAGTATTTTTGAAACTATGTATCATGGTGTGCCTG
TAGTGGGAATCCACTCTTTGGAGACCATTATGATACTATGACCAGAGTACAGGCAAAAGGCATGGGGAT
ATTGCTAGAATGGAAGACAGTTACTGAAAAGAGCTCTATGAAGCACTAGTGAAGGTTATCAATAATCCC
AGCTACCGTCAGAGGGCTCAGAAGCTTTCCGAAATTCACAAGGATCAACCTGGTCAACCCTGTCAATCGAA
CTATCTATTGGATAGATTATATTTCGTCAACAATGGAGCCCATACCTACGTGCCGCTGTCCATCAGAT
CTCCTTTTGTGAGTATTTTTACTGGATATTGCCTTTGTGCTTTTGTGGTGTGCCTTGTATACTTT
CTCTTGTCTTGGGTGACAAAATTTATCTACAGAAAAATCAAAAGTCTGTGGTCTAGAAAATAGCATAGCA
CAGTTAATGGACATTACCACAATGGAATCCTCAATGGCAAGTACAAAAGAAATGGCCATATTAACATGA
AAAGAAAGTGAATGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003360 unedited

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ATTTGAAACCGACTTCTATAGGCGGCCGCGCATTTCGGCACGAGGGCTAGGCTGAGCGCGT
GGCGGCCCGTGTCTGTGCCCGCTGAGCCAAGTGCAGGAGGGCAGCGGCGCGCTCCAGCTC
TGCTCGCCGCGCGCAGGGCGGGGGGGCCCTGGCCGCCCGCTGGGAGCTGCGGACGAGCAGG
CGCGCTGAGGACCCGAGGGAGGACACGGTTAAAGCATTGCTATCAACTGTGAACCCAGAG
AGCCCTCCTTAGCCAACACGCTAACTCCGAAGCCTCCCTTACGCCCCGAACCACCGAAG
GCGGCGACACCTGATTCAGCGCACAAACACAGGTCCCTTCTGTCCCGGATACAATTACGC
GGCAGACACACACTCAGACTCGCGGGGCGAGCCAAGAGACGAGCTATGAAGTCTTACAC
TCCATATTTTATTCTCTCTGTGGAGTGTCTTGGGATAGCGAAGGCTGCCAAAATCATCAT
CGTGCCGCCAATTATGTTTGAAGCCATATGTACATTTTCAAGACGCTAGCCTCAGCCTT
GCACGAGAGAGGCCACCATACAGTGTTCCTCTCTGAAGGCAGAGACATCGCCCATC
TAATCATTACAGCCTCCAGCGCTACCCAGGGATCTTTAACAGTACCACCTCAGATGCTTT
CCTACAGTCCAAGATGCGGAATATTTTCTCTGGGAGATTGACAGNCATCGAACTGTTTGA
CATACTGGATCACTATACTAAGAACTGTGACCTGATGGTTGGCAACCATGCCCTGATCCC
AGGTCTGAAAGAAAGAAAATNGACCTGCTGCTGGTGGACCCTATGATATGTGTGGATTG
TGATAGCTCATCTTTTAGGGGTAN
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003360 unedited CCGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTCTTCCTCTGCATCCAGTTTTGGGG GGAAGTGTCTTTTCATGGTAGTGTCTGAGTTCACACACATTAATGCTAGAAAAGAAAC ATCTGGATCCTGACTATCCTTTTACTTTATTCTTGAGTGTGTTGTACCCTCAACAATGT AACAAGCAGCCAGTAAAAATTCTTTAATTAGGACACACACACACACACAAAACACACA CACACACACACACATACACACACACACATTATTAAGAAAAATGAAACCATTCTGATC CGGGACAGCACATATCAAGATTTAAACTAAGGTCTGACACAGTCACTGAATTGATTTA AATAATTAAGGCTTCTAAAAGGTTCAAGTGCCAAAACCTCTACATCAGTATTTGAATAAA ATACATTTCTGCATTTTAGGTTTGTGCTTTTTACAGCCATCTTAATTCACAGAATTTTA TTAGTACTCTCATAAGGGCATGTTACAATCGCTTACTGATGTTTTACTTTTAGTAGCTG TTAGACTAAATAATAGCACTAAAATTCAATGAGTGAACCAATTTATTTCTATCACCTGA GCTGTTGGCTCATTTCATTTCTTTTCATGTTAATATGGCCATTTTCTTTGTACTTGC CATTGAGGATTCCATTGTGAAATGTCCATAACTGAGCTATGCTTATTTCTACACACAAA CTTTTGACTTTTCTGAAAATAATTTTGCACCCAAGAACATAAAATGTTTATCAGGGCA CCCCCAACAAAAGCCCCAAGGCAATCTCCAGTAAAATACTGACAAAGGATATCTGTGGA CACCGGCCCTAGAGATGGCCCCATTGGACAATAAATAATTTCCATCATATCGATGAAG GGGACCAGGGCACCTTGAATTCAAAACCTTGGCCCTCGCGGACCTGTTATTGAACTCC CTAGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003360
Insert Size:	2910 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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 style="list-style-type: none"> 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_003360.2 , NP_003351.2

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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-5 encode the same protein.</p>