

Product datasheet for **RG225930**

UGT8 (NM_001128174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT8 (NM_001128174) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT8
Synonyms:	CGT; UGT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225930 representing NM_001128174
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTCTTACACTCCATATTTTATTCTCTGTGGAGTCTGTTGGGATAGCGAAGGCTGCCAAAATCA
 TCATCGTGCCCAATTATGTTTGAAGCCATATGTACATTTTCAAGACGCTAGCCTCAGCCTTGACACGA
 GAGAGGCCACCATAACAGTGTTCCTCTCTGAAGGCAGAGACATCGCCCCATCTAATCATTACAGCCTC
 CAGCGCTACCCAGGGATCTTTAACAGTACCACCTCAGATGCTTTTCTACAGTCCAAGATGCGGAATATTT
 TCTCTGGGAGATTGACAGCAATCGAACTGTTTACATACTGGATCACTATACTAAGAACTGTGACCTGAT
 GGTTGGCAACCATGCCCTGATCCAGGGTCTGAAGAAAGAAAAATTTGACCTGCTGCTGGTGGACCCTAAT
 GATATGTGTGGATTTGTGATAGCTCATCTTTAGGGTTAAATATGCTGTATTTTCAACTGGCCTTTGGT
 ATCCTGCTGAAGTGGGTCTCTGCTCCATTAGCATACTGCCAGAGTTAACTCACTCCTCACAGACCG
 CATGAAGTTGCTCAAAGGATGAAAAATACCGGTGTTTACCTCATTTCAGATTAGGGTTCAGCTTTCTG
 GTTCTTCCAAAATATGAAAGGATAATGCAGAAGTACAACCTGCTGCCGGAGAAGTCCATGTATGATTTGG
 TTCATGGGTCCAGCCTGTGGATGCTGTGTACTGACGTAGCACTGGAAATCCCAAGACCCACTCTGCCTAA
 TGTGTTTATGTAGGAGGAATCCTAACCAAAACAGCCAGCCCACTACCAGAAAGTCTCCAAAAGATGGGTA
 AATGGTCTAATGAACATGGCTTTGCTTTGGTGTCTTTGGAGCTGGTGTCAAGTATCTGTCAGAAGACA
 TTGCTAACAACTGGCAGGAGCTCTGGGGAGATTGCCCAAAAAGTATTGGAGGTTTTCTGGACCCAA
 ACCAAAGAATCTAGGAAACAACACTAACTCATAGAATGGTTACCACAAAATGACCTGCTGGGCATTCA
 AAGATTAAGCCTTCTGAGCCATGGTGGTTTGAACAGTATTTTGAAGTATGTATCATGGTGTGCCTG
 TAGTGGGAATCCACTCTTTGGAGACCATTATGATACTATGACCAGAGTACAGGCAAAAGGCATGGGGAT
 ATTGCTAGAATGGAAGACAGTTACTGAAAAAGAGCTCTATGAAGCACTAGTGAAGGTTATCAATAATCCC
 AGCTACCGTCAGAGGGCTCAGAAGCTTTTCGAAAATTCACAAGGATCAACCTGGTCAACCTGTCAATCGAA
 CTATCTATTGGATAGATTATATTTCGTACAATGGAGCCCATCACCTACGTGCCGCTGTCCATCAGAT
 CTCCTTTTGTGAGTATTTTACTGGATATTGCCTTTGTGCTTTTGTGGTGTGCCTTGTATACTTT
 CTCTTGTCTTGGGTGACAAAATTTATCTACAGAAAAATCAAAGTCTGTGGTCTAGAAAATAGCATAGCA
 CAGTTAATGGACATTACCACAATGGAATCCTCAATGGCAAGTACAAAAGAAATGGCCATATTAACATGA
 AAAGAAAGTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225930 representing NM_001128174
 Red=Cloning site Green=Tags(s)

MKSYTPYFILLWSAVGIKAAKIIIVPPIMFESHMYIFKTLASALHERGHHTVFLLEGRDIAPSNHYSL
 QRYPGIFNSTTSDAFLQSKMRNIFSGRLTAIELFDILDHYTKNCDLMVGNHALIQGLKKEKFDLLLVDPN
 DMCGFVIAHLLGVKYAVFSTGLWYPAEVGAPAPLAYVPEFNSLLTDRMNLQRMKNTGVYLI SRLGVSFL
 VLPKYERIMQKYNLLPEKSMYDLVHGSSLWMLCTDVALEFPRPTLPNVVYVGGILTKPASLPEDLQRWV
 NGANEHGFVLVSFGAGVKYLSIEDIANLALGALGRLPQKVIWRFSGPKPKNLGNNTKLEWLPQNDLLGHS
 KIKAFLSHGGLNSIFETMYHGVPVVGIPLFGDHYDTMTRVQAKGMGILLEWKTVEKELYEALVKVINNP
 SYRQRAQKLEIHKDQPGHPVNRITYWIDYIIRHNGAHLRAAVHQISFCQYFLLDIAFVLLLGAALLYF
 LLSWVTKFIYRKIKSLWSRNKHSTVNGHYHNGILNGKYKRNGHIKHEKKVK

TRTRPLE - GFP Tag - V

Restriction Sites:

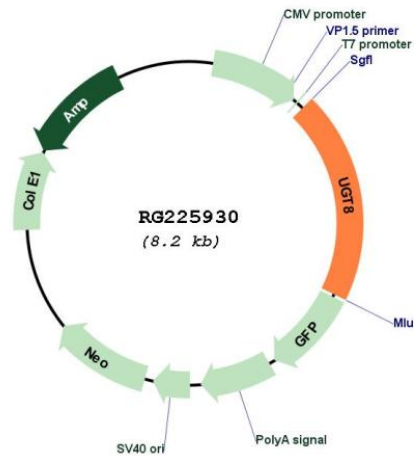
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001128174
ORF Size:	1623 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>
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 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_001128174.2 , NP_001121646.1
RefSeq Size:	2906 bp
RefSeq ORF:	1626 bp
Locus ID:	7368
UniProt ID:	Q16880
Cytogenetics:	4q26
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
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]