

Product datasheet for **RG224899**

UGT2B17 (NM_001077) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B17 (NM_001077) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UGT2B17
Synonyms:	BMND12; UDPGT2B17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224899 representing NM_001077
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCTGAAATGGATGTCAGTCTTTCTGCTGATGCAGCTCAGTTGTTACTTTAGCTCTGGGAGTTGTG
 GAAAGGTGCTGGTGGCCACAGAATACAGCCATTGGATAAATATGAAGACAATCCTGGAAGAGCTTGT
 TCAGAGGGGTCATGAGGTGATTGTGTTGACATCTTCGGCTTCTATTCTTGTCATGCCAGTAAATCATCT
 GCTATTAATAGAAATTTATCCTACATCTTAACTAAAAATGATTTGGAAGATTTTTTATGAAAATGT
 TCGATAGATGGACATATAGTATTTCAAAAAATACATTTTGGTCATATTTTCACAACTACAAGAATTGTG
 TTGGGAATATTCTGACTATAATATAAAGCTCTGTGAAGATGCAGTTTGAACAAGAACTTATGAGAAAA
 CACAAGAGTCAAATTTGATGTCCTTCTGGCAGATGCCGTTAATCCCTGTGGTGAAGTCTGGCTGAGC
 TACTTAACATACCCTTTCTGTACAGTCTCCGCTTCTCTGTTGGCTACACAGTTGAGAAGAATGGTGGAGG
 ATTTCTGTTCCCTCCTTCTATGTACCTGTTGTTATGTCAGAATTAAGTATCAAAATGATTTTCATGGAG
 AGGATAAAAAATATGATATATATGCTTTATTTGACTTTTGGTTTCAAGCATATGATCTGAAGAAGTGGG
 ACCAGTTTTATAGTGAAGTCTAGGAAGACCCACTACATTATTTGAGACAATGGGAAAAGCTGAAATGTG
 GCTCATTGCAACCTATTGGGATTTTGAATTTCTCGCCATTCTTACCAATGTTGATTTTGTGGAGGA
 CTTCACTGTAAACCAGCCAAACCCTTGCCTAAGGAAATGGAAGAGTTTGTGCAGAGCTCTGGAGAAAATG
 GTATTGTGGTGTCTCTGCGGTCGATGATCAGTAACATGTGAGAAGAAAGTCCAACATGATTGCATC
 AGCCCTTGCCAGATCCACAAAAGGTTCTATGGAGATTTGATGGCAAGAAGCCAATACTTTAGGTTCC
 AATACTCGACTGTATAAGTGGTTACCCAGAATGACCTTCTTGGTCATCCCAAAACCAAGCTTTTATAA
 CTGATGGTGGAAACCAATGGCATCTATGAGGCAATCTACCATGGGATCCCTATGGTGGGCTCCCTGTT
 TCGCGATCAACATGATAACATTGCTCACATGAAAGCCAAGGGAGCAGCCCTCAGTGTGGACATCAGGACC
 ATGTCAAGTAGAGATTTGCTCAATGCATTGAAAGTCAAGTCAATTAATGACCTATCTATAAAGAGAATATCA
 TGAAATATCAAGAATTCATCATGATCAACCGGTGAAGCCCTGGATCGAGCAGTCTTCTGGATTGAGTT
 TGTGATGCGCCATAAAGGAGCCAAGCACCTTCGGGTCGAGCCACAACCTCACCTGGATCCAGTACCAC
 TCTTTGGATGTGATAGCATTCTGCTGGCTGCGTGGCAACTATGATATTTATGATCACAAAATGTTGCC
 TGTTTTGTTCCGAAAGCTTGCCAAAACAGGAAAGAAGAAGAAAGGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224899 representing NM_001077
 Red=Cloning site Green=Tags(s)

MSLKWMSVFLMQLSYFSSGSCGKVLVWPTEYSHWINMKTILEELVQRGHEVIVLTSSASILVNASKSS
 AIKLEVPYPTSLTKNDLEDFFMKMFDRWTYSISKNTFWSYFSQLQELCWEYSYDYNIKLCEDAVLNKKLMRK
 LQESKFDVLLADAVNPGCELLAELLNIPFLYSLRFVSGYTVKNGGFLFPPSYVPPVMSELSDQMIFME
 RIKNMIYMLYFDFWFQAYDLKKWDQFYSEVLGRPTTLFETMGKAEMWLIRTYWDFEFPRPFLPNVDFVGG
 LHCKPAKPLPKEMEEFVQSSGENGIVVFLGSMISNMSEESANMIASALAQIPQKVLWRFDGKPKNTLGS
 NTRL YKWL PQNDLLGHPKTKAFITHGGTNGIYEAIYHGIPMVGIPLFADQHDNIAHMKAKGAALSVDIRT
 MSSRDLLNALKSVINDPIYKENIMKLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAHNLTWIQYH
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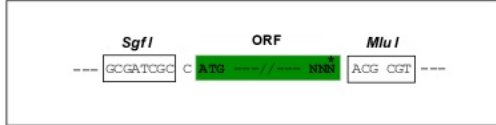
TRTRPLE - GFP Tag - V

Restriction Sites:

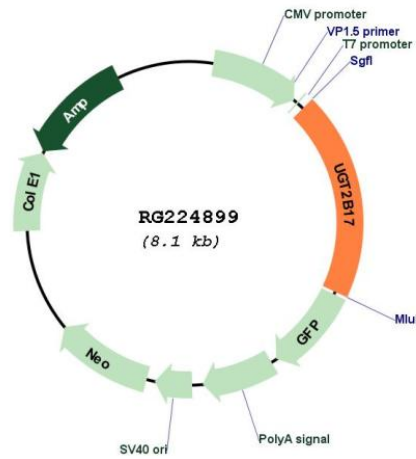
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001077
ORF Size:	1590 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_001077.4
RefSeq Size:	2099 bp
RefSeq ORF:	1593 bp
Locus ID:	7367
UniProt ID:	O75795
Cytogenetics:	4q13.2
Protein Families:	Transmembrane
Protein Pathways:	Androgen and estrogen metabolism, Ascorbate and aldarate metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Retinol metabolism, Starch and sucrose metabolism

Gene Summary:

This gene encodes a member of the uridine diphosphoglucuronosyltransferase protein family. The encoded enzyme catalyzes the transfer of glucuronic acid from uridine diphosphoglucuronic acid to a diverse array of substrates including steroid hormones and lipid-soluble drugs. This process, known as glucuronidation, is an intermediate step in the metabolism of steroids. Copy number variation in this gene is associated with susceptibility to osteoporosis.[provided by RefSeq, Apr 2010]