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Product datasheet for RC232510

UGT2B28 (NM_001207004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B28 (NM_001207004) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT2B28
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232510 representing NM_001207004 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTCTGAAGTGGACTTCAGTTCTTCTGCTGATACATCTCGGTTGTTACTTTAGCTCTGGGAGTTGTG GAAAGGTGCTGGTGTGGACCGGTGAATACAGCCATTGGATGAATATGAAGACAATCCTGAAAGAGCTTGT TCAGAGAGGTCATGAGGTGACTGTACTGGCATCTTCAGCTTCCATTCTTTTTGATCCCAATGACGCATTC ACTCTTAAACTCGAAGTTTATCCTACATCTTTAACTAAAACTGAATTTGAGAATATCATCATGCAACAGG TTAAGAGATGGTCAGACATTCAAAAAGATAGCTTTTGGTTATATTTTTCACAAGAACAAGAAATCCTGTG GGAATTTCATGACATATTTAGAAACTTCTGTAAAGATGTAGTTTCAAATAAGAAAGTTATGAAAAAACTA CAAGAGTCAAGATTTGACATCATTTTTGCAGATGCTTTTTTTCCTTGTGGTGAGCTGCTGGCTGCGCTAC TTAACATACCGTTTGTGTACAGTCTCTGCTTCACTCCTGGCTACACAATTGAAAGGCACAGTGGAGGACT GATTTTCCCTCCTTCCTACATACCTGTTGTTATGTCAAAATTAAGTGATCAAATGACTTTCATGGAGAGG GTAAAAAACATGATCTATGTGCTTTATTTTGACTTTTGGTTCCAAATGTGTGATATGAAGAAGTGGGATC AGTTTTACAGTGAAGTTTTAGGAAGACCCACTACCTTATTTGAGACAATGGGGAAAGCTGACATATGGCT TATGCGAAACTCCTGGAGTTTTCAATTTCCTCATCCATTCTTACCAAACATTGATTTTGTTGGAGGACTC CACTGCAAACCTGCCAAACCCCTACCTAAGGAAATGGAGGAATTTGTACAGAGCTCTGGTGAAAATGGTG TTGTGGTGTTTTCTCTGGGGTCAGTGATAAGTAACATGACAGCAGAAAGGGCCAACGTAATTGCAACAGC CCTTGCCAAGATCCCACAAAAGATA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

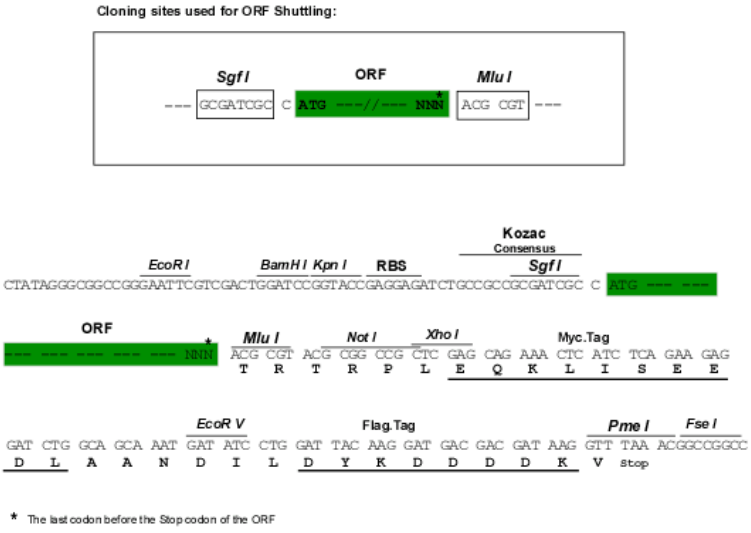
>RC232510 representing NM_001207004
Red=Cloning site Green=Tags(s)

MALKWTSVLLLIHLGCYFSSGSCGKVLVWTGEYSHWMNMKTILKELVQRGHEVTVLASSASILFDPNDAF
TLKLEVYPTSLTKTEFENIIMQQVKRWSDIQKDSFWLYFSQEQEILWEFHDIFRNFCKDVVSNKKVMKKL
QESRFDIIFADAFFPCGELLAALLNIPFVYSLCFTPGYTIERHSGGLIFPPSYIPVVMSKLSDQMTFMER
VKNMIYVLYFDFWFQMCDMKKWDQFYSEVLGRPTTLFETMGKADIWLMRNSWSFQFPHPFLPNIDFVGGL
HCKPAKPLPKEMEEFVQSSGENGVVVFSLGSVISNMTAERANVIATALAKIPQKI

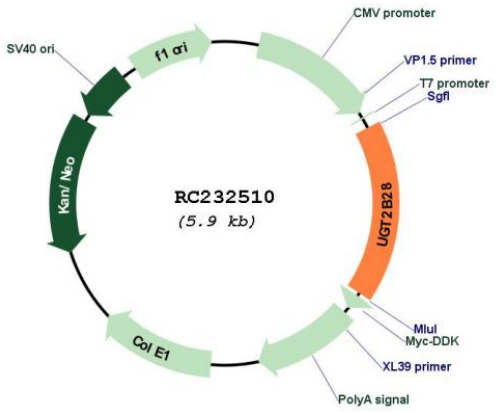
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001207004

ORF Size:	1005 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_001207004.2
RefSeq Size:	1543 bp
RefSeq ORF:	1008 bp
Locus ID:	54490
UniProt ID:	Q9BY64
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
MW:	39.2 kDa
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. Two transcript variants encoding different isoforms have been found for this gene. While both isoforms are targeted to the endoplasmic reticulum, only the longer isoform appears to be active. [provided by RefSeq, May 2011]