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Product datasheet for RC227991

UGT2B10 (NM_001144767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2B10 (NM_001144767) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT2B10
Synonyms:	UDPGT2B10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC227991 representing NM_001144767
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTGAAATGGACTACAGTTCTGCTGATACAACTCAGTTTTTACTTTAGCTCTGGGAGTTGTGGAA
AGGTGCTGGTATGGGCCGCAGAATACAGCCTTTGGATGAATATGAAGACAATCCTGAAAGAACTTGTTCA
GAGAGGTCATGAGGTGACTGTACTGGCATCTTCAGCTTCCATTCTTTTTGATCCCAACGACTCATCCACT
CTTAAACTTGAAGTTTATCCTACATCTTTAACTAAAACTGAATTTGAGAATATCATCATGCAATTGGTTA
AGAGATTGTCAGAAATTCAAAAAGATACATTTTGGTTACCTTTTTCACAAGAACAAGAAATCCTGTGGGC
AATTAATGACATAATTAGAAACTTCTGTAAAGATGTAGTTTCAAATAAGAAACTTATGAAAAAACTACAA
GAGTCAAGATTTGACATCGTTTTTGCAGATGCTTATTTACCCTGTGGAAGACCCACTACATTATCTGAGA
CAATGAGGAAAGCTGACATATGGCTTATGCGAAACTCCTGGAATTTTAAATTTCCTCATCCATTCTTACC
AAATGTTGATTTTGTTGGAGGACTCCACTGCAAACCTGCCAAACCCCTACCTAAGGAAATGGAGGAGTTT
GTACAGAGCTCTGGAGAAAATGGTGTTGTGGTGTTTTCTCTGGGGTCAATGGTCAGTAACATGACAGAAG
AAAGGGCCAACGTAATTGCAACAGCCCTTGCCAAGATCCCACAAAAGGTTCTTTGGAGATTTGATGGGAA
TAAACCAGATGCCTTAGGTCTCAATACTCGACTGTACAAGTGGATACCCCAGAATGACCTTCTAGGTCAT
CCAAAAACCAGAGCTTTTATAACTCATGGTGGAGCCAATGGCATCTATGAGGCAATCTACCATGGGATCC
CTATGGTGGGCATTCCATTGTTTTTTGATCAACCTGATAATATTGCTCACATGAAGGCCAAGGGAGCAGC
TGTTAGAGTGGACTTCAACACAATGTCGAGTACAGACCTGCTGAATGCACTGAAGACAGTAATTAATGAT
CCTTCATATAAAGAGAATATTATGAAATTATCAAGAATTCAACATGATCAACCAGTGAAGCCCCTGGATC
GAGCAGTCTTCTGGATTGAATTTGTCATGCGCCACAAAGGAGCCAAACATCTTCGAGTTGCAGCCCACAA
CCTCACCTGGTTCCAGTACCACTCTTTGGATGTGATTGGGTTCCTGCTGGCTTGTGTGGCAACCGTGCTA
TTTATCATCACAAAGTGTTGTCTGTTTTGTTTCTGGAAGTTTGCTAGAAAAGGAAAGAAGGGAAAAAGGG
AT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227991 representing NM_001144767
Red=Cloning site Green=Tags(s)

MALKWTTVLLIQLSFYFSSGSCGKVLVWAAEYSLWMNMKTILKELVQRGHEVTVLASSASILFDPNDSST
LKLEVYPTSLTKTEFENIIMQLVKRLSEIQKDTFWLPFSQEQEILWAINDIIRNFCKDVVSNKKLMKKLQ
ESRFDIVFADAYLPCGRPTTLSETMRKADIWLMRNSWNFKFPHPFLPNVDFVGGLHCKPAKPLPKEMEEF
VQSSGENGVVVFSLGSMVSNMTEERANVIATALAKIPQKVLWRFDGNKPDALGLNTRLYKWIPQNDLLGH
PKTRAFITHGGANGIYEAIYHGIPMVGIPLFFDQPDNIAHMKAKGAAVRVDFNTMSSTDLLNALKTVIND
PSYKENIMKLSRIQHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHNLTWFQYHSLDVIGFLLACVATVL
FIITKCCLFCFWKFARKGKKGKRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1365_a06.zip

Restriction Sites: SgfI-MluI

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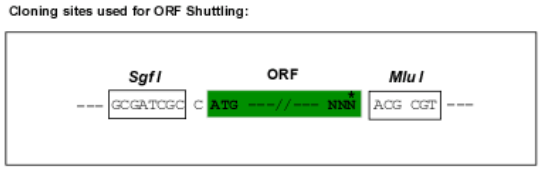
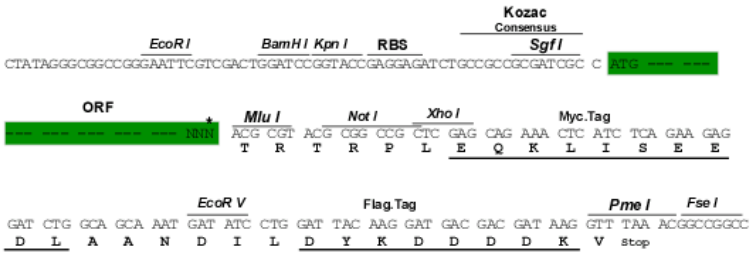
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_001144767

ORF Size: 1332 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001144767.3

RefSeq ORF: 1335 bp

Locus ID: 7365

UniProt ID: P36537

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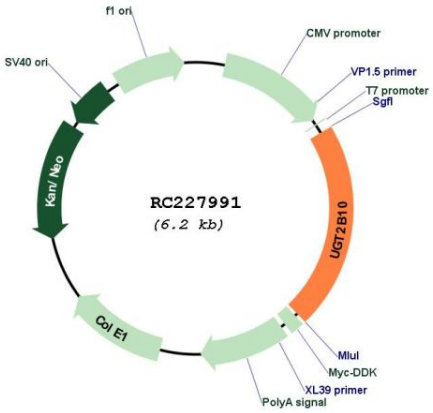
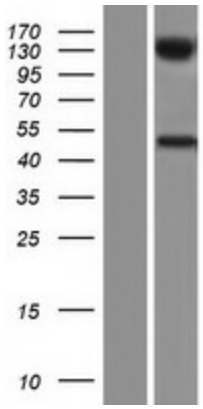
Cytogenetics:	4q13.2
Protein Families:	Transmembrane
Protein Pathways:	Androgen and estrogen metabolism, Ascorbate and aldarate metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Retinol metabolism, Starch and sucrose metabolism
MW:	50.5 kDa
Gene Summary:	UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227991



Western blot validation of overexpression lysate (Cat# [LY428511]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227991 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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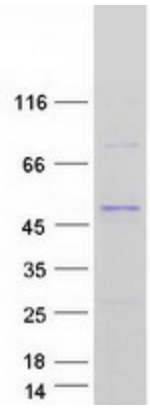

Coomassie blue staining of purified UGT2B10 protein (Cat# [TP327991]). The protein was produced from HEK293T cells transfected with UGT2B10 cDNA clone (Cat# RC227991) using MegaTran 2.0 (Cat# [TT210002]).

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