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Product datasheet for RC223545

UGT2A3 (NM_024743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2A3 (NM_024743) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT2A3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC223545 representing NM_024743
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGTCTGACAAGTCAGCTTTGGTATTTCTGCTCCTGCAGCTCTTCTGTGTTGGCTGTGGATTCTGTG
GGAAAGTCCTGGTGTGGCCCTGTGACATGAGCCATTGGCTTAATGTCAAGGTCATTCTAGAAGAGCTCAT
AGTGAGAGGCCATGAGGTAACAGTATTGACTCACTCAAAGCCTTCGTTAATTGACTACAGGAAGCCTTCT
GCATTGAAAATTTGAGGTGGTCCATATGCCACAGGACAGAACAGAAGAAAATGAAATATTTGTTGACCTAG
CTCTGAATGTCTTGCCAGGCTTATCAACCTGGCAATCAGTTATAAAATTAAATGATTTTTTTGTTGAAAT
AAGAGGAACTTTAAAAATGATGTGTGAGAGCTTTATCTACAATCAGACGCTTATGAAGAAGCTACAGGAA
ACCAACTACGATGTAATGCTTATAGACCCTGTGATTCCCTGTGGAGACCTGATGGCTGAGTTGCTTGCAG
TCCCTTTTGTGCTCACACTTAGAATTTCTGTAGGAGGCAATATGGAGCGAAGCTGTGGGAAACTTCCAGC
TCCACTTTCCTATGTACCTGTGCCTATGACAGGACTAACAGACAGAATGACCTTTCTGGAAAGAGTAAAA
AATTCAATGCTTTCAGTTTTGTTCCACTTCTGGATTCAGGATTACGACTATCATTTTTGGGAAGAGTTTT
ATAGTAAGGCATTAGGAAGGCCCACTACATTATGTGAGACTGTGGGAAAAGCTGAGATATGGCTAATACG
AACATATTGGGATTTTGAATTTCCTCAACCATACCAACCTAACTTTGAGTTTGTTGGAGGATTGCACTGT
AAACCTGCCAAAGCTTTGCCTAAGGAAATGGAAAATTTTGTCCAGAGTTCAGGGGAAGATGGTATTGTGG
TGTTTTCTCTGGGGTCACTGTTTCAAAATGTTACAGAAGAAAAGGCTAATATCATTGCTTCAGCCCTTGC
CCAGATCCCACAGAAGGTGTTATGGAGGTACAAAGGAAAAAAACCATCCACATTAGGAGCCAATACTCGG
CTGTATGATTGGATACCCCAGAATGATCTTCTTGGTCATCCCAAAACCAAAGCTTTTATCACTCATGGTG
GAATGAATGGGATCTATGAAGCTATTTACCATGGGGTCCCTATGGTGGGAGTTCCCATATTTGGTGATCA
GCTTGATAACATAGCTCACATGAAGGCCAAAGGAGCAGCTGTAGAAATAAACTTCAAAACTATGACAAGC
GAAGATTTACTGAGGGCTTTGAGAACAGTCATTACCGATTCCTCTTATAAAGAGAATGCTATGAGATTAT
CAAGAATTCACCATGATCAACCTGTAAAGCCCCTAGATCGAGCAGTCTTCTGGATCGAGTTTGTCATGCG
CCACAAAGGAGCCAAGCACCTGCGATCAGCTGCCCATGACCTCACCTGGTTCCAGCACTACTCTATAGAT
GTGATTGGGTTCCTGCTGACCTGTGTGGCAACTGCTATATTCTTGTTCACAAAATGTTTTTTATTTTCCT
GTCAAAAATTTAATAAAACTAGAAAGATAGAAAAGAGGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

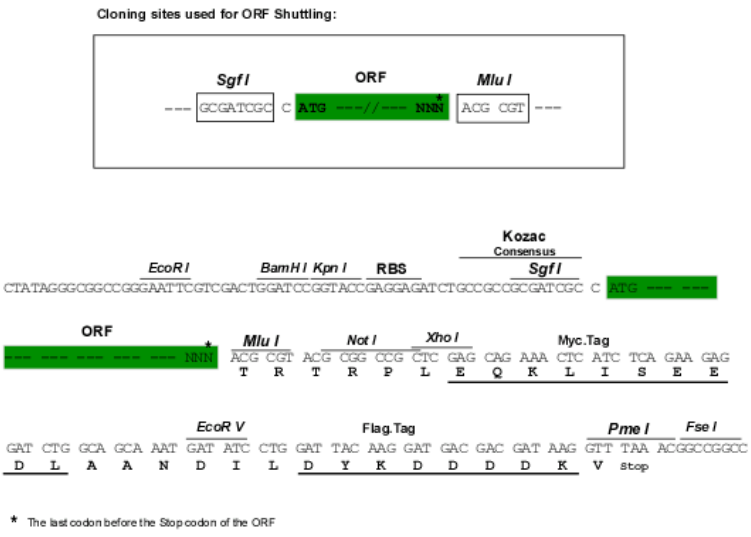
>RC223545 representing NM_024743
Red=Cloning site Green=Tags(s)

MRSDKSALVFLLLQLFCVGCGFCGKVLVWPCDMSHWLNVKVILEELIVRGHEVTVLTHSKPSLIDYRKPS
ALKFEVVHMPQDRTEENEIFVDLALNVLPGLSTWQSVIKLNDFFVEIRGTLKMMCESFIYNQTLMKKLQE
TNYDVMLIDPVIPCGDLMAELLAVPFVLTLRISVGGNMERSCGKLPAPLSYVPVPMTGLTDRMTFLERVK
NSMLSVLFHFWIQDYDYHFWEEFYSKALGRPTTLCETVGKAEIWLIRTYWDFEFPQPYQPNFEFVGGLHC
KPAKALPKEMENFVQSSGEDGIVVFSLGSLFQNVTEEKANIIASALAQIPQKVLWRYKGKKPSTLGANTR
LYDWIPQNDLLGHPKTKAFITHGGMNGIYEAIYHGVPMVGVPIFGDQLDNIAHMKAKGAAVEINFKTMTS
EDLLRALRTVITDSSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRSAAHDLTWFQHYSID
VIGFLLTCVATAIFLFTKCFLFSCQKFNKTRKIEKRE

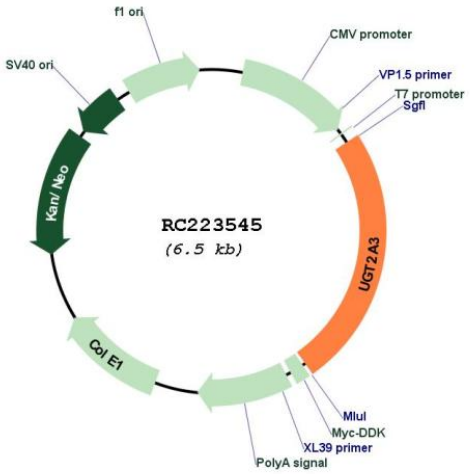
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_024743
ORF Size:	1581 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_024743.2, NP_079019.2
RefSeq Size:	2974 bp
RefSeq ORF:	1584 bp
Locus ID:	79799
UniProt ID:	Q6UWM9
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:	60.1 kDa
Gene Summary:	UDP-glucuronosyltransferases catalyze phase II biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase water solubility and enhance excretion. They are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds (By similarity). [UniProtKB/Swiss-Prot Function]