

Product datasheet for **RC225904**

UGT2A2 (NM_001105677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UGT2A2 (NM_001105677) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UGT2A2
Synonyms:	UDPGT 2A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC225904 representing NM_001105677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTAAGAAGTTTGTCCAGATGCTGGTTTTTAAATTTGACTCTGACTGAAGTTGTTCTAAGTGGGAATG
 TGTTAATTTGGCCTACAGATGGTAGCCATTGGTTAAATATTAAGATTATTCTAGAAGAGTTGATTCAAAG
 AAATCACAAATGTGACTGTACTGGCTTCATCAGCAACTCTATTCATCAACTCCAATCCCGATTCTCCTGTG
 AATTTTGAAGTGATACCTGTTTCTACAAGAAGAGCAATATAGATTCCTAATTGAGCATATGATAATGC
 TGTGGATTGACCATAGACCAACTCTCTACAATATGGGCTTTCTACAAAGAACTAGGAAAACTCTAGA
 CACTTTCTTTCAAATTAACATACAACCTCTGTGATGGTGTACTAAAGAACCCAAAGTTGATGGCAAGACTT
 CAGAAAGTGGTTTTGATGTGTTGGTAGCAGCCAGTAAACAATCTGTGGTGATCTTGTGCTCTGAAAT
 TAGGAATCCATTTATGTACACATTGAGGTTCTCTCCAGCATCAACAGTGGAGAGACTGTGGGAAAT
 CCCAGCACCAGTCTCCTATGTACCGGCAGCCTTATCAGAGCTCACTGACCAGATGACCTTTGGTGAAGG
 ATTAATAAATACCATATCTTATTCTCTGCAAGACTATATATTTAGTCCTACTGGGGAGAATGGAATTCAT
 ACTATAGCAAAATTTTAGGAAGACCCACTACGTTATGTGAGACTATGGGGAAAGCTGAAATTTGGTTAAT
 CCGAACATATTGGGATTTTGAATTTCTCGTCCATACTTACCTAATTTTGGAGTTTGGGAGATTGCAC
 TGCAAACCTGCCAAACCTTTACCTAAGGAAATGGAAGAATTTATCCAGAGCTCAGGTAATAATGGTGTG
 TGGTGTCTCTGGGATCAATGGTCAAAAACCTTACAGAAGAAAAGGCCAATCTTATTGCCTCAGCCCT
 TGCCCAGATTCCACAGAAGGTTTTATGGAGATACAAAGGAAAAGAACAGCCACATTAGGAAACAATACT
 CAGCTCTTTGATTGGATACCCAGAATGATCTTCTTGGACATCCCAAACCAAAGCTTTTATCACTCATG
 TGGAACATAATGGGATCTACGAAGCTATTTACCACGGAGTCCCTATGGTGGGAGTTCCCATGTTGCTGA
 TCAGCCTGATAACATTGCTCACATGAAGGCCAAAAGGAGCAGCTGTGGAAGTGAACCTAAACACAATGACA
 AGTGTGGATTTGCTTAGCGCTTTGAGAACAGTCATTAATGAACCTTCTTATAAAGAGAATGCTATAGGT
 TATCAAGAATTCACCATGATCAACCTGTAAGCCCTGGATCGAGCAGTCTTCTGGATCGAGTTTGTGAT
 GCGCCACAAGGAGCCAAAGCACCTTCGGGTTGCAGCCATGACCTCACCTGGTCCAGTACCCTCTTTG
 GATGTAATGGGTTCTTGTGCTGTGTGACAACGGCTATATTTTTGGTCATACAATGTTGTTGTTTT
 CCTGTCAAAAATTTGGTAAGATAGGAAAGAAGAAAAAAGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225904 representing NM_001105677
 Red=Cloning site Green=Tags(s)

MPKKFVQMLVFNLTLTEVVLSGNVLIWPTDGSWLNLIKILEELIQRNHNVTVLASSATLFINSPDSPV
 NFEVIVPSYKSNIDSLIEHMIMLWIDHRPTPLTIWAFYKELGKLLDTFFQINIQLCDGVLPKPKLMARL
 QKGGFDVLVADPVTICGDLVALKLGIPFMYTLRFSPASTVERHCGKIPAPVSYVPAALSELTDQMTFGER
 IKNTISYSLQDYIFQSYWGEWNSYYSKILGRPTTL CETMGKAEIWLIRTYWDFEFPRPYLPNFEFVGGGLH
 CKPAKPLPKEMEEFIQSSGKNGVVVSLGSMVKNL TEEKANLIASALAIQPKVLWRYKGGKPKATLGNNT
 QLFDWIPQNDLLGHPKTKAFITHGGTNGIYEAIYHGVPMPVGPMPFADQPDNIAHMKAKGAAVEVNLNTMT
 SVDLLSALRTVINEPSYKENAMRLSRIHHDQPKPLDRAVFWIEFVMRHKGAKHLRVAHADLTFWQYHSL
 DVI GFLLCVTTAIFLVIQCCLFSCQKFGKIGKKKKRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8034_h09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001105677

ORF Size: 1584 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_001105677.1](#), [NP_001099147.1](#)

RefSeq ORF: 1611 bp

Locus ID: 574537

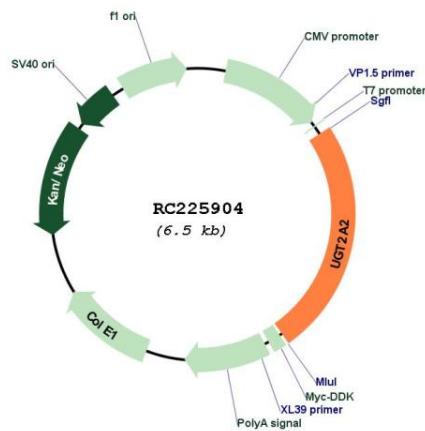
UniProt ID: [Q9Y4X1](#)

Cytogenetics: 4q13.3

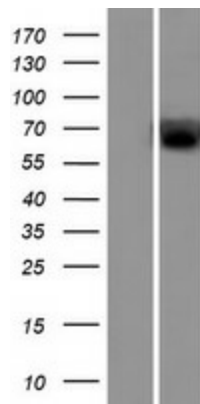
MW: 59.6 kDa

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. Active on odorants and seems to be involved in olfaction; it could help clear lipophilic odorant molecules from the sensory epithelium.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RC225904



Western blot validation of overexpression lysate (Cat# [LY426296]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225904 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).