

Product datasheet for **RR214873**

Ugt2b7 (NM_173323) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt2b7 (NM_173323) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ugt2b7
Synonyms:	UDPGT 2B7; Ugt2b8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214873 representing NM_173323
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTCAGAAGTGGATTCTGCTCTGCTCCTACTGCAGATAAGTTTCTGCTTCAGATCTGGAACTGTG
 GGAAAGTGTGGTGTGGCATTGGAATACAGTCACTGGATGAATTTAAAGATAAACTGGATGAACCTGT
 ACAGAGGGGACATGAAGTCACTGTTCTCAGACCTTCATCTTCCGCTCTCTTGTATCCAAAAAGCATCT
 GGTCTTGATATGAAACATCTCCTACAACCTCCAATAATGATGAAGTAGAAAAGTCTTTTTACCCAGTGG
 GTGATATGTGGACATACGATGTGCCAAAATACATGTTTGTAGATACTACCCATCTTTGAACAAAATGTT
 CGGGCAATTTTCTGATTTGTGGTTACAGCTTTGTAGAGAAGTTGTTTCAAACAAGGAACTTATAGCAAAA
 CTAAGGAATCCAGTTTGTGTGGTTCTTTAGATGCTGTTGGTCCCTGTGGTGTAGCTGATAGCTGAGA
 TACTGCAGTTACCATTTGTGTACAGTCTTCGCTTTGCCACCGCCCTGGAATAGAAAAGTACAGTGCAGG
 ACAACCTTCCCTCCCTCTTATGTACCTATTATTTTGTCCAGGATTTAGTGGTCAAATGACATTCATGGAG
 AGAGTGGAAAATATGCTATGTTTACTTTATTTTATTCTGTTCCGATCATTTCCTGCTAAGGATTGGG
 ATCCATTTTTAGCGAAAATTTAGGAAGACCCACTACAATGGTTGACACAATGAAGAAAAGCAGAAAATATG
 GCTCATTCCGGTCTACTGGGACTTGGAGTTTCCCGCCCATCCTTGCCAAACATTGAGTTTGTGGAGGA
 CTTCACTGCCAACCTGCCAAACCATACCTAAGGAAAATGGAAGACTTTGCACAGAGCTCAGGAGAACATG
 GTGTGTGGGTGTTTTCTGTTGGTTCGATGATCAGGAACATAACACAAGAAAAGGGCTAACACAATTGCATC
 AGCCCTGGCACAATCCACAAAAGGTTTTTGGAGATTGAGGGCAAGAAAACAGACACCTTAGGACCC
 AATACTCGGGTGTCAAGTGGATACCCAGAATGACCTTCTTGGTATCCAAAACTAAGGCTTTTGTAA
 CTCATGGTGGGCAATGGCATCTATGAGTCAATCCATTATGGGATCCCCCATGGTTGGCATCTCTTT
 ATTTGCAGAACAACGTGATAACGTTGCTCACATGGTAGCCAAAGGAGCAGCTGTTTCTATAGATTTTCAT
 ACAATGTCAGTTTCAAGTTTGTCAACGCACTGAAGGCAGTCATCAATAACCCCTCTATAAAAAAGAAAG
 TGATGTGGTTGTGAGCCATTACCATGACCAGCCTCTGAAGCCTCTGGACAGAGCAGTCTTCTGGATTGA
 GTTTGTGATGCGTCACAAAGGGGCAAGCATCTGAGACCCTTGACATAACCTTGCCCTGGTATCAGTA
 CACTCTCTGGATGTGATTGGATTCTGCTTGCCTGTGTGCTGGCCATTGTTTTACTTGCTGTAAAATGCT
 GTCTGTTCTTTACCGATTTTTTGTAAAGGTGGCAAGAATAAAAGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214873 representing NM_173323
 Red=Cloning site Green=Tags(s)

MPQKWISALLLLQISFCFRSGNCGKVLVWPLEYSHWMNLKIIIDELVQRGHEVTVLRPSSSVSLDPKKAS
 GLVYETSPTTNNDEVEKSFYPVGMWYDVPKYTCLRYPSLNKMFQFSDLWLQLCREVVSNNKELIAK
 LKESQFDVVLSDAVGPCGELIAEILQLPFVYSLRFATAPGIEKYSAGQFPFPPSYVPIILSGFSGQMTFME
 RVENMLCLLYFDSWFESFPAKDWDPFSEILGRPTTMVDTMKKAEIWLIRSYWDLEFPRPSLPNIEFVGG
 LHCQPAKPLPKEMEDFAQSSGEHGVVWVSLGSMIRNITQERANTIASALAQIPQKVFWRFEKPKPDLGP
 NTRVFKWIPQNDLLGHPKTKAFVTHGGANGIYESIHYGIPPMVGIPLFAEQRDNVAHMVAKGAAVSIDFH
 TMSDDLNLKAVINNPYKVMWLSAIHHDQPLKPLDRAVWFIEFVMRHKGAKHLRPLAHLNLALVSV
 HSLDVIGFLLACVLAIVLLAVKCLFLYRFFVKVAKNKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173323

ORF Size: 1590 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_173323.1](#), [NP_775445.1](#)

RefSeq Size: 1947 bp

RefSeq ORF: 1593 bp

Locus ID: 286989

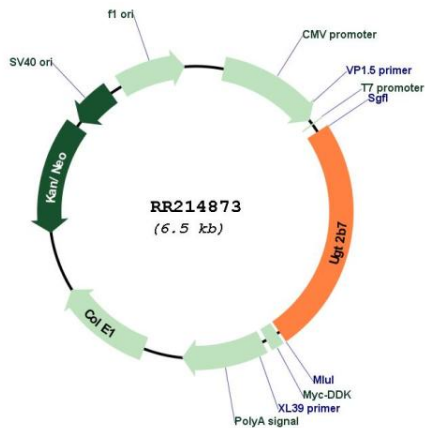
UniProt ID: [Q62789](#)

Cytogenetics: 14p21

MW: 60.1 kDa

Gene Summary: UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. Plays a role in steroid metabolism and is active with Is also active with androsterone, hyodeoxycholic acid and tetrachlorocatechol (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214873