

Product datasheet for **MR208466**

Ugt2a1 (NM_053184) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt2a1 (NM_053184) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ugt2a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208466 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGAAGAACATTTTGTCTGTCTCTTCAGATAAGCCTTCTAGGAATGAGTCTTGGTGGGAACGTTCT
 TCATCTGGCCCATGGAAGCAGTCACTGGCTAAATGTTAAGATCATAATAGATGAACTCCTAAGAAAAGA
 GCATAATGTGACTGTCTTGTGGCCTCCGGGGCCCTTTTCATCACACCATCATCCATCAGCCCATCTCTG
 ACATTTGAAATATATCCAGTGCCCTTTGGCAAGGAAAAAATTGAAAGTGTGATCAAAGACTTTGTTTGA
 CATGGCTGAAAAACAGGCCATCTCCTTCAACTATCTGGACTTTCTATAAGGAAATGGCCAAAGTCATTGA
 GGAGTTTCATTTGGTGTCCAGAGGTATCTGTGATGGCCTTCTTAAGAATGAAAAGCTGATGTCCAAGCTT
 CAGAAAGAAAAGTTCGAAGTACTGTTATCAGACCCTGATTTTCTTGTGGTGACATCGTGGCTTTAAAC
 TGGGAATTCATTTATCTATTCTTGGCGTTTTCCCTGCCTCCACAGTGAAAAGCATTGTGAAAAGGT
 CCCATTCCCTCCTCCTATGTACCTGCAATTCTGTGAGAATCACAGACCAGATGTCCTTACTGACCGA
 GTAAGAACTTCAATTTCTTACCGAATGCAGGACTACATGTTTGAACCCCTTTGGAAGCAGTGGGATTCCT
 ATTATACTAAAGCTTTAGGAAGCCACCACACTGTGTGAGACTATGGGAAAGCTGAGATTTGGCTAAT
 GCGAACCTATTGGGATTTGAATTTCTCGTCCATATTTACCGAATTTGAGTTTGTGGGAGGACTGCAC
 TGCAAACCTGCCAAGCCTTACCTAAGGAAATGGAAGAGTTTGTCCAGACCTCAGGGGAACATGGTATTG
 TGGTGTCTTCTGGGGTCAATGGTCAAAAACCTGACAGATGAAAAGGCCAATCTCATTGCCTCAGCCCT
 TGCCCAGATTCCTCAGAAGGTTTTGTGGCGATACAAAGGAAAGATACCAGACACATTAGGATCCAATACA
 AGACTGTTTGGATTCCCTCAGAATGATCTTCTTGGACATCCAAAACCAGAGCTTTTATCACCATG
 GTGGAACAAATGGAATCTATGAGGCTATTTACCATGGGATCCCTATGGTGGGAGTGCCCATGTTTCGCTGA
 CCAGCCTGACAACATTGCTCACATGAAGGCCAAAAGGAGCAGCAGTGGAGGTGAACATGAACACGATGACA
 AGCTCAGATCTGCTCAATGCTCTGAGAACAGTCATCAATGAGCCATCTTATAAAGAGAATGCCATGAGAC
 TATCAAGAATCCACCATGACCAGCCAGTGAAGCCCTGGACCGAGCAGTCTTCTGGATTGAGTTTGTGAT
 GCGTCACAAAGGAGCCAAGCACCTTCGTGTGGCAGCCCATGACCTCAGCTGGTTTCAGTACCCTCTCTG
 GATGTAATTGGGTTTCTGCTGGCCTGTGTGGCATCTGCTATATTATTGGTTGCAAATGTTGTTTGTGTTA
 TATTTCAAAAAGTTGGTAAGACAGGAAAGAAGAAAAACGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208466 protein sequence
 Red=Cloning site Green=Tags(s)

MLKNILLCSLQISLLGMSLGGNVLWPMEGSHLNVKIIIDELLRKEHNVTVLVASGALFITPSSISPSL
 TFEIYVPPFGKEKIESVIKDFVLTWLENRPSPTIWTFFYKEMAKVIEEFHLVSRGICDGLKNEKLMMSL
 QKEKFEVLLSDPVFPCGDIVALKLGIPFIYSLRFSPASTVEKHCGKVPFPPSYVPAILSELTDQMSFTDR
 VRNFISYRMQDYMFETLWKQWDSYYTKALGRPTTL CETMGKAEIWL MRTYWFDFEPRPYLPNFEFVGGGLH
 CKPAKPLPKEMEEFVQTSGEHGI VVFLSGSMVKNL TDEKANL IASALAQIPQKVLWRYKGIPTDLGNSNT
 RLFDWIPQNDLLGHPKTRAFITHGGTNGIYEAIYHGIPMVGVPMFADQPDNIAHMKAKGA AVEVNMNTMT
 SSDLLNALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVA AHDLSWFQYHSL
 DVIGFLLACVASA ILLVAKCCLFIFQKVGKTGKKKKRD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_053184

ORF Size: 1587 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_053184.2](#), [NP_444414.2](#)

RefSeq Size: 2597 bp

RefSeq ORF: 1587 bp

Locus ID: 94215

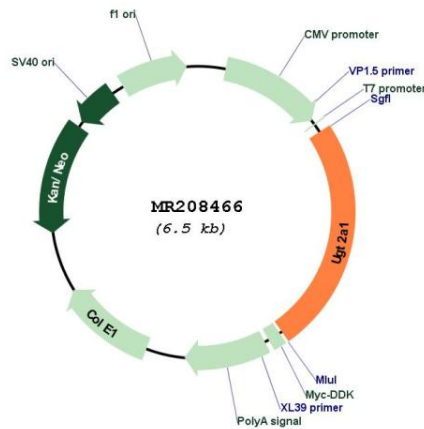
UniProt ID: [Q80X89](#)

Cytogenetics: 5 E1

MW: 60 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 MR208466