

Product datasheet for **MG208467**

Ugt2a2 (NM_001024148) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ugt2a2 (NM_001024148) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugt2a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208467 representing NM_001024148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCAAGAAGTTTTACAGCTGCTTATTTTTCACTTGGCTCTGGCTGAAATTGTTCTCAGCGGGAATG
 TGGTAGTTTGGCCTACAGATGGCAGCCATTGGCTAAATATTAAGATTCTTCTTGAGGAGTTGGTTCAAAG
 AAATCACAGTGTGACTGTACTGGCTCCATCAGAACTTTATTTATCAACTCCAGACTTGATGCCTTTATA
 AATTTTGAAGAGATTCCGGTTTCGTACACAAAAAGCAAGATAGATGAAATAATTGAGCATATGATAGCAC
 TGTGGCTGGACCAGGCCAACGCCTCTCACAATGTGGACTTTCTACAAAGAACTAGGAAATCTCCTTGC
 TACTTTCTACACAACCAATAAGCAAATGTGTGATGGTGTACTAAACAATCCCACTGTAATGGAAAGACTG
 CAAAAAGTGGCTTCGATGTGTTACTAGCTGACCCAGTAAACAATGTGTGGAGAGCTGGTGGCTCTGAAAT
 TGGGGATTCCCTTTGTGTATACACTACGCTTCTCTCCAGCCTTTACAGTGGAGAGGCATTGTGGGAAAT
 TCCTGCCCCATCTCATACGTACCTGCAGCCCTGTCAGAGCTCACTGACCAGATGCTTTTGGTGAAGG
 GTTAAGAATATCATTTCTTATTCTCTGCAAGACTATATATTTAAGACCTACTGGGGAGAATGGAATTCAT
 ACTACAGCAAAGTTCTAGGAAGACCCACCACACTGTGTGAGACTATGGGGAAAGCTGAGATTTGGCTAAT
 GCGAACCTATTGGGATTTTGAATTTCTCGTCCATATTTACCGAATTTTGTGGGAGGACTGCAC
 TGCAAACCTGCCAAGCCTTTACCTAAGGAAATGGAAGAGTTTGTCCAGACCTCAGGGGAACATGGTATTG
 TGGTGTCTTCTGGGGTCAATGGTCAAAAACCTGACAGATGAAAAGGCCAATCTCATTGGCTCAGCCCT
 TGCCAGATTCTCAGAAGGTTTGTGGCGATACAAAGGAAAGATACCAGACACATTAGGATCCAATACA
 AGACTGTTTGGATTCCCTCAGAATGATCTTCTTGGACATCCCAAAACCAGAGCTTTTATCACCCATG
 GTGGAACAAATGGAATCTATGAGGCTATTTACCATGGGATCCCTATGGTGGGAGTGCCCATGTTTCGCTGA
 CCAGCCTGACAACATTGCTCACATGAAGGCCAAAGGAGCAGCAGTGGAGGTGAACATGAACACGATGACA
 AGCTCAGATCTGCTCAATGCTCTGAGAACAGTCATCAATGAGCCATCTTATAAAGAGAATGCCATGAGAC
 TATCAAGAATCCACCATGACCAGCCAGTGAAGCCCTGGACCGAGCAGTCTTCTGGATTGAGTTTGTGAT
 GCGTCAAAAGGAGCCAAGCACCTTCGTGTGGCAGCCATGACCTCAGCTGGTTTCAGTACCCTCTCTG
 GATGTAATTGGGTTTCTGCTGGCCTGTGTGGCATCTGCTATATTATTGGTTGCAAAATGTTGTTTGT
 TATTTCAAAAAGTTGGTAAGACAGGAAAGAAGAAAAACGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

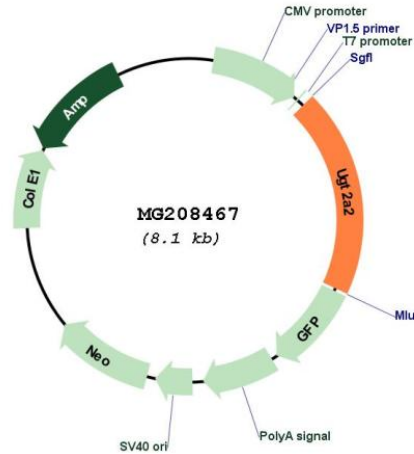
>MG208467 representing NM_001024148
 Red=Cloning site Green=Tags(s)

MIKKVLQLLIFHLTLAEIVLSGNVVVWPTDGSWLNLIKILLEELVQRNHSVTVLAPSETLFINSLDAFI
 NFEEIPVSYTKSKIDEIEHMIALWLDHRPTPLTMWTFYKELGNLLATFYTTNKQMGDVLNPNPTVMERL
 QKGGFDVLLADPVTMCGELVALKLGIPFVYTLRFSPAFTVERHCGKIPAPISYVPAALSELTDQMSFGER
 VKNIISYSLQDYIFKTYWGEWNSYYSKVLGRPTTLCETMGKAEIWLRTYWDFEFPYPYLPNFEFVGGLH
 CKPAKPLPKEMEEFVQTSGEHGI VVFSLGSVMKNLTDEKANLIASALAQIPQKVLWRYKGIPTDLGSNT
 RLFDWIPQNDLLGHPKTRAFITHGGTNGIYEAIYHGIPMVGVPMPFADQPDNIAHMKAKGAAVEVNMNTMT
 SSDLLNALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAADHLSWFQYHSL
 DVIGFLLACVASAILLVAKCCLFIFQKVGKTGKKKKRD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001024148

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_001024148.1](#), [NP_001019319.1](#)

RefSeq Size: 2595 bp

RefSeq ORF: 1587 bp

Locus ID: 552899

UniProt ID: [Q6PDD0](#)

Cytogenetics: 5 E1

Gene Summary: UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds.[UniProtKB/Swiss-Prot Function]