

## Product datasheet for **MC217401**

### **Ugt2a1 (NM\_053184) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC217401 representing NM\_053184  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTGAAGAACATTTTGTCTGTCTCTTTCAGATAAGCCTTCTAGGAATGAGTCTTGGTGGGAACGTTCT  
 TCATCTGGCCCATGGAAGGCAGTCACTGGCTAAATGTTAAGATCATAATAGATGAACTCCTAAGAAAAGA  
 GCATAATGTGACTGTCCTTGTGGCCTCCGGGGCCCTTTTCATCACACCATCATCCATCAGCCCATCTCTG  
 ACATTTGAAATATATCCAGTGCCTTTGGCAAGGAAAAAATTGAAAGTGTGATCAAAGACTTTGTTTTGA  
 CATGGCTGAAAAACAGGCCATCTCCTTCAACTATCTGGACTTTCTATAAGGAAATGGCCAAAGTCATTGA  
 GGAGTTTCATTTGGTGTCCAGAGGTATCTGTGATGGCGTTCTTAAGAATGAAAAGCTGATGTCCAAGCTT  
 CAGAAAGAAAAGTTCGAAGTACTGTTATCAGACCCTGTATTTCTTGTGGTGACATCGTGGCTTTAAAC  
 TGGGAATTCATTTATCTATTCTTGCCTTTCCCTGCCTCCACAGTGGAAAAGCATTGTGGAAAGGT  
 CCCATTCCCTCCTCCTATGTACCTGCAATTCTGTCAGAACTCACAGACCAGATGTCCTTACTGACCGA  
 GTAAGAACTTCAATTTCTTACCGAATGCAGGACTACATGTTTGAAACCCTTTGGAAGCAGTGGGATTCTCT  
 ATTATACTAAAGCTTTAGGAAGACCCACCACACTGTGTGAGACTATGGGAAAGCTGAGATTTGGCTAAT  
 GCGAACCTATTGGGATTTTGAATTTCTCGTCCATATTTACCGAATTTTGTGTTTGGGAGGACTGCAC  
 TGCAAACCTGCCAAGCCTTACCTAAGGAAATGGAAGAGTTTGTCCAGACCTCAGGGGAACATGGTATTG  
 TGGTGTCTTCTGTTGGTCAATGGTCAAAAACCTGACAGATGAAAAGGCCAATCTCATTGCCTCAGCCCT  
 TGCCCAGATTCTCAGAAGGTTTTGTGGCGATACAAAGGAAAGATACCAGACACATTAGGATCCAATACA  
 AGACTGTTTGGATTCCCTCAGAATGATCTTCTTGGACATCCCAAAACCAGAGCTTTTATCACCCATG  
 GTGGAACAAATGGAATCTATGAGGCTATTTACCATGGGATCCCTATGGTGGGAGTGCCCATGTTTCGCTGA  
 CCAGCCTGACAACATTGCTCACATGAAGGCCAAAAGGAGCAGCAGTGGAGGTGAACATGAACACGATGACA  
 AGCTCAGATCTGCTCAATGCTCTGAGAACAGTCATCAATGAGCCATCTTATAAAGAGAATGCCATGAGAC  
 TATCAAGAATCCACCATGACCAGCCAGTGAAGCCCTGGACCGAGCAGTCTTCTGGATTGAGTTTGTGAT  
 GCGTCACAAAGGAGCCAAGCACCTTCGTGTGGCAGCCCATGACCTCAGCTGGTTTCAGTACCCTCTCTG  
 GATGTAATTGGGTTTCTGCTGGCCTGTGTGGCATCTGCTATATTATTGGTTGCAAATGTTGTTTGTGTTA  
 TATTTCAAAAAGTTGGTAAGACAGGAAAGAAGAAAAACGTGAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_053184

**Insert Size:** 1587 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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

**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]