

## Product datasheet for **MG208466**

### **Ugt2a1 (BC048926) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ugt2a1 (BC048926) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ugt2a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208466 representing BC048926  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGAAGAACATTTTGTCTGTCTCTTTCAGATAAGCCTTCTAGGAATGAGTCTTGGTGGGAACGTTCT  
 TCATCTGGCCCATGGAAGGCAGTCACTGGCTAAATGTTAAGATCATAATAGATGAACTCCTAAGAAAAGA  
 GCATAATGTGACTGTCCCTTGTGGCCTCCGGGGCCCTTTTCATCACACCATCATCCATCAGCCCATCTCTG  
 ACATTTGAAATATATCCAGTGCCCTTTGGCAAGGAAAAAATTGAAAGTGTGATCAAAGACTTTGTTTTGA  
 CATGGCTGGAAAACAGGCCATCTCCTTCAACTATCTGGACTTTCTATAAGGAAATGGCCAAAGTCATTGA  
 GGAGTTTCATTTGGTGTCCAGAGGTATCTGTGATGGCCTTCTTAAGAATGAAAAGCTGATGTCCAAGCTT  
 CAGAAAGAAAAGTTCGAAGTACTGTTATCAGACCCTGTATTTCTTGTGGTGACATCGTGGCTTTAAAC  
 TGGGAATTCATTTATCTATTCTTGCCTTTCCCTGCCTCCACAGTGGAAAAGCATTGTGAAAAGGT  
 CCCATTCCCTCCTTCTATGTACCTGCAATTCTGTGAGAACTCACAGACCAGATGTCCTTACTGACCGA  
 GTAAGAACTTCAATTTCTTACCGAATGCAGGACTACATGTTTGAACCCCTTTGGAAGCAGTGGGATTCCT  
 ATTATACTAAAGCTTTAGGAAGCCACCACACTGTGTGAGACTATGGGAAAGCTGAGATTTGGCTAAT  
 GCGAACCTATTGGGATTTTGAATTTCTCGTCCATATTTACCGAATTTTGTGTTTGGGAGGACTGCAC  
 TGCAAACCTGCCAAGCCTTACCTAAGGAAATGGAAGAGTTTGTCCAGACCTCAGGGGAACATGGTATTG  
 TGGTGTCTTCTGGGGTCAATGGTCAAAAACCTGACAGATGAAAAGGCCAATCTCATTGCCTCAGCCCT  
 TGCCCAGATTCCTCAGAAGGTTTGTGGCGATACAAAGGAAAGATACCAGACACATTAGGATCCAATACA  
 AGACTGTTTATTGGATTCCCTCAGAATGATCTTCTTGGACATCCAAAACCAGAGCTTTTATCACCATG  
 CCAGCCTGACAACATTGCTCACATGAAGGCCAAAAGGAGCAGCAGTGGAGGTGAACATGAACACGATGACA  
 AGCTCAGATCTGCTCAATGCTCTGAGAACAGTCAATGAGCCATCTTATAAAGAGAATGCCATGAGAC  
 TATCAAGAATCCACCATGACCAGCCAGTGAAGCCCTGGACCGAGCAGTCTTCTGGATTGAGTTTGTGAT  
 GCGTCAAAAGGAGCCAAGCACCTTCGTGTGGCAGCCCATGACCTCAGCTGGTTTCAGTACCCTCTCTG  
 GATGTAATTGGGTTTCTGCTGGCCTGTGTGGCATCTGCTATATTATTGGTTGCAAATGTTGTTTGTGTTA  
 TATTTCAAAAAGTTGGTAAGACAGGAAAGAAGAAAAACGTGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208466 representing BC048926  
 Red=Cloning site Green=Tags(s)

MLKNILLCSLQISLLGMSLGGNVLIWPMEGSHLNVKIIIDELLRKEHNVTVL VASGALFITPSSISPSL  
 TFEIYPVFPFGKEKIESVIKDFVLTWLENRPSPTIWTIFYKEMAKVIEEFHLVSRGICDGVLKNEKLSKL  
 QKEKFEVLLSDPVFPCGDIVALKLGIPFIYSLRFSPTVEKHCGKVPFPPSYVPAILSELTDQMSFTDR  
 VRNFISYRMQDYMFEFLWKQWDSYYTKALGRPTTLCETMGKAEIWL MRTYWDFEFPRPYLPNFEFVGGLH  
 CKPAKPLPKEMEEFVQTSGEHGI VVFLGSMVKNLTDEKANLIASALAQIPQKVLWRYKGIPTDLGSNT  
 RLFDWIPQNDLLGHPKTRAFITHGGTNGIYEAIYHGIPMVGVPMFADQPDNIAHMKAKGAAVEVNMNTMT  
 SSDLLNALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAADHLSWFQYHSL  
 DVIGFLLACVASAILLVAKCCLFIFQKVGKTGKKKKRD

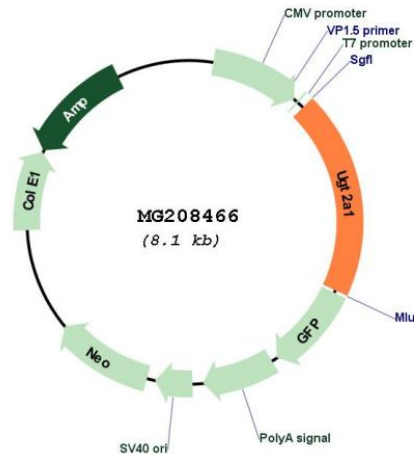
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



## Plasmid Map:



ACCN: BC048926

ORF Size: 1586 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:** [BC048926](#), [AAH48926](#)

**RefSeq Size:** 2585 bp

**RefSeq ORF:** 1586 bp

**Locus ID:** 94215

**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]