

Product datasheet for **MC216925**

Cyp2w1 (NM_001160265) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2w1 (NM_001160265) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyp2w1
Synonyms:	Gm455
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216925 representing NM_001160265
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTGCTGCTCCTGGGTGTCTGGGGATCTTGCTACTTCTGGGGCTGTGGGGACTGCTCCAGGGCT
 GCACCCGAGCCCTCCCTGGCTCCTCGGTGGCCCTGGGCCTCGCCCTCTGCCGTTCTGGGGAACCT
 GCATTTGCTGGGTGTGACCCAACAAGACCGGGCACTGATGGAGCTCTCAGAACGCTACGGGCCCATGTTT
 ACAATCCATCTGGGATCTCAGAAGACCGTGGTGTGTCGGGCTATGAGGTGGTGAGGGAGGCCTTGTTG
 GAACCGGGCATGAGCTAGCCGACCGGCCCAATTCCCATCTTCCAGCACATCCAGCGAGGTGGGGCAT
 TTTCTTTCTTCTGGAGCTCGCTGGAGGGCGGTGCGCAATTACGGTGCGCACACTGCAGAGCCTGGGT
 GTGCAACAGCCATCCATGGTGGCAAGGTGCTGCAGGAGCTGGCCTGTCTAAAGGACAGCTGGATAGCT
 ATGGAGGCCAGCCCTCCCTGGCGTCTGGGTTGGGCACCCTGCAACATCACCTTACACTTCTCTT
 CGCCAGCGCTTTGACTACCAGGATCCTGTGTTTGTGTCCTGCTGAGTCTCATTGACCAGGTCATGGTC
 CTGTTGGGGTCACTGGCATAACAGCTATTAACAGCTTCCCCGGCTGGGGCCCTTCTGCGGTTGCACA
 GGCCGGTCTTGAGCAAGATCGAGGAGGTGCGCACCATCCTGAGAACCCTGCTGGAACCGGGAGACCACC
 CTTGCCAACGGCGGTCCCGCGCAGAGTTATGTAGAAGCTCTGCTTACAGAGGGCCAGGAAGATGACCTT
 GAGGACATGTTTGGCGAGGCCAATGTCTGGCCTGTACTGACATGGTCATGGCTGGAACAGAGACCA
 CGCGGCCACGCTGCAGTGGGCCGTCTTCTGATGGTTAAGCACCCACATGTGCAGGGTCGCGTGCAGGA
 GAACTGGACCGAGTGTGGTCTGGGCAGCTGCCTCAACCAGAGCACCAGCGAGCACTGCCCTACACC
 AGTGTGTGTTGATGAGGTCCAGCGGTACATCACACTCCTGCCCCATGTGCCCGTGCACAGCTGCTG
 ACATCCAGCTGGGTGGCTACCTGCTCCCCAAGGGCACTCCTGTGATTCTTTGCTCACTTCACTCCTCT
 GGACAAGACGCAGTGGGAGACCCCAAGCCAGTTCAACCCAAACCACTTTCTGGACGCGAAGGGGCGCTTT
 ATGAAGCGGGGGCCTTCTGCCATTCTCCGCTGGTCCCGGGTCTGCGTTGGGAAGAGCCTGGCCAGGA
 CAGAGCTTCTCTGCTGTTGCTGGCCTCCTTACGCGGTACCGCCTCCTGCCCCACCGGCCTCAGCCC
 TGCAGACCTGGATTTACGGCCTGCCCCAGCTTTACCATGCGGCCTCCTGCCAGACCTTGTGTGTGGTG
 CCGAGATCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1859_e07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001160265

Insert Size: 1482 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001160265.1](#), [NP_001153737.1](#)

RefSeq Size: 1512 bp

RefSeq ORF: 1482 bp

Locus ID: 545817

UniProt ID: [E9Q816](#)

Cytogenetics: 5 G2

Gene Summary: Seems to have broad catalytic activity towards several chemicals, including polycyclic aromatic hydrocarbon dihydrodiols and aromatic amines. Active also in the metabolism of indoline substrates and is able to activate aflatoxin B1 into cytotoxic products. Furthermore, it seems to be involved in the oxydation of lysophospholipids and fatty acids.[UniProtKB/Swiss-Prot Function]