

Product datasheet for **MR214072**

Cyp2w1 (NM_001160265) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR214072 representing NM_001160265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTCTGCTGCTCCTGGGTGTCTGGGGATCTTGCTACTTCTGGGGCTGTGGGACTGCTCCAGGGCT
 GCACCGGAGCCCTCCCTGGCTCCTCGGTGGCCCCCTGGGCCTCGCCCTCTGCCGTTCTGGGGAACT
 GCATTTGCTGGGTGTGACCCAACAAGACCGGGCACTGATGGAGCTCTCAGAACGCTACGGGCCCATGTTT
 ACAATCCATCTGGGATCTCAGAAGACCGTGGTGTCTCGGGCTATGAGGTGGTGGGGAGGCCTTGTTG
 GAACCGGGCATGAGCTAGCCGACCGGCCCAATTCCCATCTTCCAGCACATCCAGCGAGGTGGGGCAT
 TTTCTTTCTTGAGCTCGCTGGAGGGCGGGTCGCCAATTCACGGTGCACACTGCAGAGCTGGGT
 GTGCAACAGCCATCCATGGTGGCAAGGTGCTGCAGGAGCTGGCCTGTCTAAAGGACAGCTGGATAGCT
 ATGGAGGCCAGCCCTCCCTGGCGTCTGGGTGGGCACCCTGCAACATCACCTTCACACTTCTCTT
 CGGCCAGCGCTTGACTACCAGGATCCTGTGTTGTGTCCTGCTGAGTCTCATTGACCAGGTCATGGTC
 CTGTTGGGGTCACTGGCATACAGCTATTCAACACGTTCCCCCGCTGGGGGCTTCTGCGGTTGCACA
 GGCCGGTCTTGAGCAAGATCGAGGAGGTGCGCACCATCCTGAGAACCTGCTGGAACCGCGAGACCACC
 CTTGCCAACGGCGGTCCCGCGCAGAGTTATGTAGAAGCTCTGCTTCAGCAGGGCCAGGAAGATGACCT
 GAGGACATGTTTGGCGAGGCCAATGTCTGGCCTGTACACTGGACATGGTCATGGCTGGAACAGAGACCA
 CGGCGGCCACGCTGCAGTGGGCGTCTTCTGATGTTAAGCACCCACATGTGCAGGGTCGCGTGCAGGA
 GGAAGTGGACCGAGTCTGGGTCTGGGACGTGCCTCAACCAGAGCACCAGCGAGCACTGCCCTACACC
 AGTGTGTGTTGCATGAGGTCCAGCGGTACATCACACTCTGCCCATGTGCCCCGCTGCACAGCTGCTG
 ACATCCAGCTGGGTGGTACCTGCTCCCCAAGGGCACTCTGTGATTCTTTGCTCACTTCAGTCCTCT
 GGACAAGACGCAGTGGGAGACCCCAAGCCAGTTCAACCCAAACCACTTTCTGGACGCGAAGGGGCGCTT
 ATGAAGCGGGGGCCTTCTGCCATTCTCGCTGGTGGCGGGTCTGCGTTGGGAAGAGCTGGCCAGGA
 CAGAGCTCTTCTGCTGTTGCTGGCCTCTTACGCGGTACCGCCTCTGCCCCACCGGCTCAGCCC
 TGCAGACCTGGATTTACGGCCTGCCCCAGCTTTACCATGCGGCTCTGCCAGACCTGTGTGTGGTG
 CCGAGATCT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR214072 representing NM_001160265
 Red=Cloning site Green=Tags(s)

MALLLLGVWGILLLLGLWGLLQGCTRSPSLAPRWPPGPRPLPFLGNLHLLGVTQQDRALMELSERYGPMF
 TIHLGSQKTVVLSGYEVVREALVGTGHELANDRPPPIPIFQHIQRGGGIFSSGARWRAGRQFTVRTLQSLG
 VQQPSMVGKVLQELACLKGQLDSYGGQPLPLALLGWAPCNITFTLLFGQRFDYQDPVFSLLSLIDQVMV
 LLGSPGIQLFNTFPRLGAFRLHRPVLKIEEVRTILRTLLETRPPLPTGGPAQSYVEALLQQGQEDDP
 EDMFGEANVLACTLDMVMAGTETTAATLQWAVFLMVKHPHVQGRVQEELDRVLGPGQLPQPEHQALPYT
 SAVLHEVQRYITLLPHVPRCTAADIQLGGYLLPKGTPVIPLLSVLLDKTQWETPSQFNPNHFLDAKGRF
 MKRGAFLPFSAGRRVCVGKSLARTELFLLFAGLLQRYRLPPPGLSPADLDLRPAPAFTRMPPAQTLCV
 PRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

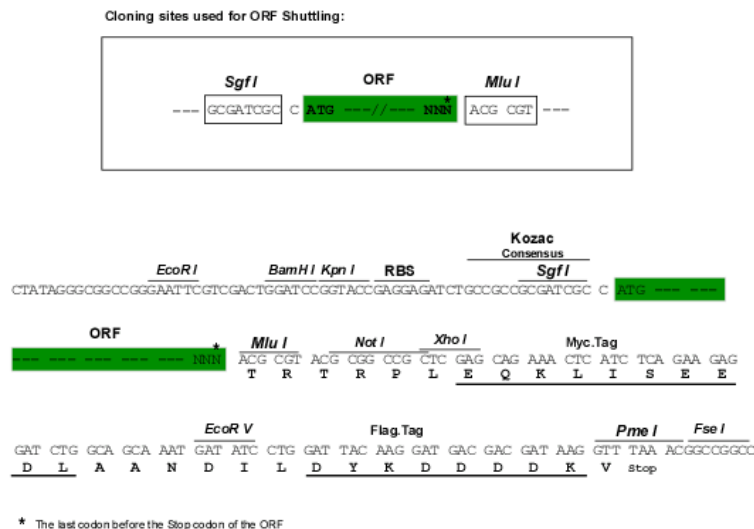
Chromatograms:

https://cdn.origene.com/chromatograms/mm9045_c01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001160265

ORF Size: 1479 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

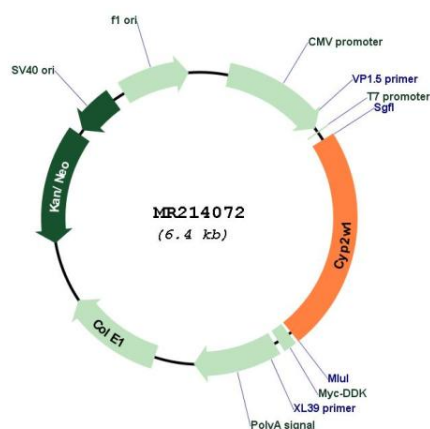
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001160265.2</u>
RefSeq Size:	1512 bp
RefSeq ORF:	1482 bp
Locus ID:	545817
UniProt ID:	<u>E9Q816</u>
Cytogenetics:	5 G2
MW:	54.9 kDa
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]

Product images:



Circular map for MR214072