

## Product datasheet for **RR212200**

### **Cyp1a2 (NM\_012541) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp1a2 (NM_012541) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp1a2
Synonyms:	CYPD45; P-450d; RATCYPD45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR212200 representing NM\_012541  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGTTCTCCAGTATATCTCCTTAGCCCCAGAGCTGCTACTGGCCACTGCCATCTTCTGTTTAGTGT  
 TCTGGGTGTTGAGAGGCACAAGGACCCAGGTTCCCAAAGGTCTGAAGAGTCTCCCGGACCTGGGGCTT  
 GCCCTTATTGGGCACATGCTGACCCTGGGAAGAACCACACCTATCTCTGACAAAGCTGAGTCAGCAG  
 TATGGGGACGTGCTGAGATCCGCATTGGCTCCACACCCGTGGTGGTGTGAGCGGCCTGAACACCATCA  
 AGCAGGCCCTAGTGAAGCAGGGGATGACTTCAAAGGCCGGCCAGACCTCTACAGCTTACACCTTATCAC  
 TAATGGCAAGAGCATGACTTTCAACCCAGACTCTGGACCGGTCTGGGCTGCCCGCCGGCCCTGGCCAG  
 GATGCCCTGAAGAGTTTCTCCATAGCCTCAGACCCACATCAGTATCCTCTTGTACTTGGAGGAGCAG  
 TGAGCAAAGAGGTAACCATCTAATCAGCAAGTCCAGAAGCTGATGGCAGAGGTTGGCCACTTCGAACC  
 AGTCAACCAGGTGGTGAATCGGTGGCTAATGTATCGGAGCCATGTGTTTTGGGAAGAACTTCCCAGG  
 AAGAGCGAGGAGATGCTCAACCTCGTGAAGAGCAGCAAGGACTTTGTGGAGAATGTACCTCAGGAATG  
 CTGTGGACTTCTTTCCGGTCTGCGCTACCTGCCCAACCCAGCCCTCAAGAGTTTAAAGAACTTCAATGA  
 TAACTTTGTGCTGTTTCTGCAGAAAACAGTCCAGGAACACTATCAAGACTTCAACAAGAACAGTATCCAG  
 GACATCACAGGCGCCCTGTTCAAGCACAGTGAGAACTACAAGACAACGGTGGTCTCATCCCTCAGGAGA  
 AGATTGTCAACATTGTCAATGACATCTTTGGAGCTGGATTTGAAACAGTCACAACAGCCATCTTCTGGAG  
 CATTTTGTACTTGTGACAGAGCCCAAGGTGCAGAGGAAGATTCATGAGGAGCTGGACACGGTGATTGGC  
 AGAGATCGGCAGCCACGGCTTTCTGACAGACCCAGCTGCCATATCTGGAGGCCCTCATCTGGAGATCT  
 ACCGATACACATCCTTTGCCCCCTTACCATCCCCACAGCACAACGAGGACACCTCACTGAATGGCTT  
 CCACATTTCCCAAGGAGTGTGATCTTTCATAAACCAAGTGGCAGGTCAACCATGATGAGAAGCAAGTGGAAA  
 GACCCCTTTGTGTTCCGCCAGAGCGGTTTCTTACCAATGACAACACGGCCATCGACAAGACCCTGAGTG  
 AGAAGGTGATGCTCTTCGGCTTGGGAAAGCGCCGGTGCATTGGGGAGATCCCGGCCAAGTGGGAAGTCTT  
 CCTCTTCTTAGCCATCCTCCTGCATCAGCTGGAGTTCAGTGTGCCACCGGCGTGAAGGTGGACCTGACA  
 CCCAGCTATGGGCTGACCATGAAGCCAGAACCTGTGAACACGTCCAGGCTGGCCACGCTTCTCCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212200 representing NM\_012541  
 Red=Cloning site Green=Tags(s)

MAFSQYISLAPELLLATAIFCLVFWVLRGTRTQVPKGLKSPPGPWGLPF IGHML TLGKNPHLSLTKLSQQ  
 YGDVLRIRIGSTPVVVLSGLNTIKQALVKQDDFKGRPDLYSFTLITNGKSMTFNPDSGPVWAARRRLAQ  
 DALKSFSIASDPTSVSSCYLEEHVSKEANHLISKFKLMAEVGHFEPVNVQVSVANVIGAMCFGKNFPR  
 KSEEMNLVKSSKDFVENVTSGNAVDFPVLRYLPNPALKRFKNFNDNFVFLQKTVQEYQDFNKNLSIQ  
 DITGALFKHSENYKDNGLIPQEKIVNIVNDIFGAGFETVTTAIFWSILLLVTEPKVQRKIHEELDTVIG  
 RDRQPRLSDRPQLPYLEAFILEIYRYTSFVPFTIPHSTTRDTSLNGFHIPKECCIFINQWQVNHDEKQWK  
 DPFVFRPERFLTNDNTAIDKTLSEKVMFLFGLGKRRICIGIIPAKWEVFLFLAILLHQLLEFTVPPGVKVDLT  
 PSYGLTMKPRTCEHVQAWPRFSK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_012541

**ORF Size:** 1539 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\\_012541.3](#), [NP\\_036673.3](#)

**RefSeq Size:** 1882 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 24297

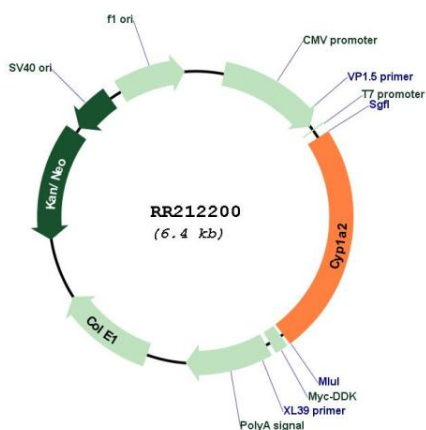
**UniProt ID:** [P04799](#)

**Cytogenetics:** 8q24

**MW:** 58.3 kDa

**Gene Summary:** a monooxygenase that may play a role in xenobiotic metabolism [RGD, Feb 2006]

**Product images:**



Circular map for RR212200