

Product datasheet for **RN213786**

Cyp1a1 (NM_012540) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp1a1 (NM_012540) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cyp1a1
Synonyms:	AHH; AHRR; CP11; CYP1; Cyp45c; Cypc45c; P-450MC; P1-450; P450-C; P450DX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN213786 representing NM_012540
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTTCTGTATGGATTCCACGCTTCACATCAGCCACAGAGCTGCTCTTGGCCGTACCACATTCT
GCCTTGGATTCTGGGTGGTTAGAGTCACAAGAACCTGGGTCCCAAAGGTCTGAAGAGTCCACCCGGACC
CTGGGGCTTGCCCTTCATGGGGCACGTGCTGACCTGGGGAAGAACCACACCTGCTACTGACAAAACCTG
AGTCAGCAGTATGGGACGTGCTGCAGATCCGTATTGGCTCCACACCCGTGGTGGTCTGAGCGGCCTGA
ACACCATCAAGCAGGCCCTGGTAAACAGGGGATGACTTCAAAGGCCGGCCAGACCTCTACAGTTCAC
ACTTATCGCTAATGGCCAGAGCATGACTTTCAACCAGACTCTGGACCGCTGTGGCTGCCCGCCGGCGC
CTGGCCAGAATGCGCTGAAGAGTTTCCCATAGCCTCAGACCCAACACTGGCATCCTCTTGCTACTTGG
AAGAGCACGTGAGCAAAGAGGCTGAATACTTAATCAGCAAAGTCCAGAAGCTGATGGCAGAGTTGGCCA
CTTCGACCTTTCAAGTATTTGGTGGTGTGAGTGGCCAATGTCATCTGTGCCATATGCTTTGGCAGACGT
TATGACCACGATACCAAGAGCTGCTCAGCATAGTCAATCTAAGCAATGAGTTTGGGAGGTTACTGGTT
CTGGATACCCAGCTGACTTCATTCTATCCTCCGTTACCTCCCTAACTCTTCCCTGGATGCCTTCAAGGA
CTTGAATAAGAAGTTCTACAGTTTCATGAAGAAGCTAATCAAAGAGCACTACAGGACATTTGAGAAGGGC
CACATCCGGGACATCACAGACAGCCTCATTGAGCATTGTCAGGACAGGAGGCTGGACGAGAATGCCAATG
TCCAGCTCTCAGATGATAAGGTCATTACGATTGTTTTGACCTCTTTGGAGCTGGGTTTGACACAATCAC
AACTGCTATCTCTTGGAGCCTCATGTACCTGGTAACCAACCCTAGGATACAGAGAAAGATCCAGGAGGAG
TTAGACACAGTGATTGGCAGGGATCGGCAGCCCCGGCTTCTGACAGACCTCAGCTGCCCTATCTGGAGG
CCTTCATCCTGGAGACCTCCGACATTCATCCTTTGCCATTCACCATCCCCACAGCACCATAAGAGA
TACAAGTCTGAATGGCTTCTATATCCCCAAGGGACACTGTGTCTTTGTGAACCAGTGGCAGGTTAACCAT
GACCAGGAACTATGGGTGATCCAAACGAGTCCGGCCTGAAAGGTTTCTTACCTCCAGTGGCACTCTGG
ACAAACACCTGAGTGAGAAGGTCATTCTTTGGTTTGGGCAAGCGAAAGTGCATTGGGGAGACCATTGG
CCGACTGGAGGTCTTTCTTCTTGGCCATCCTGCTGCAGCAAATGGAATTTAATGTGTACCAGGCGAG
AAGGTGGATGACTCCTGCCTATGGGCTGACTTTAAACATGCCCGCTGTGAGCACTTCCAAGTGCAGA
TGCGGTCTCTGGTCTCAGCATCTCCAGGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3129_a03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_012540

Insert Size: 1575 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.

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_012540.2](#), [NP_036672.2](#)

RefSeq Size: 2615 bp

RefSeq ORF: 1575 bp

Locus ID: 24296

UniProt ID: [P00185](#)

Cytogenetics: 8q24

Gene Summary: monooxygenase that plays a role in dioxin metabolism and detoxification which is 3-methylcholanthrene-inducible [RGD, Feb 2006]