

Product datasheet for **RN211932**

Cyp4a2 (NM_001044770) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4a2 (NM_001044770) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cyp4a2
Synonyms:	Cyp4a11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN211932 representing NM_001044770
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTTTCTCTGTATTTAGCCCTACAAGATCCCTGGATGGTGTCTCTGGTTCTTCCAAGGGCCTTCT
 TGCTCAGTCTATTTCTGGTGCTGTTCAAGGCAGTCCAATTCTACTTACGAAGGCAATGGCTGCTCAAGGC
 CCTCGAGAAGTTCCCATCCACGCTTCCCACTGGCTTTGGGGCCACAACCTGAAGGATAGAGAATTCCAG
 CAGGTTCTTACGTGGGTAGAGAAATCCAGGTGCCTGCTTACAGTGGCTCTCAGGGAGCACAGCACGAG
 TCCTGCTCTATGACCCTGACTATGTGAAGGTGGTTCTGGGAAGATCAGATCCAAAGCCTTATCAATCCCT
 TGCTCCCTGGATTGTTATGTTTGTCTCTGTTGAATGGAAAGAAATGGTTCCAGCATCGCGGATGTTG
 ACTCCAGCCTTCCACTATGACATCCTCAAACCTATGTCAAATCATGGCGGACTCTGTCACTATAATGC
 TAGACAAATGGGAGAAGCTTGATGACCAGGATCACCTCTAGAGATCTTCCACTATGTCTCTTGATGAC
 ACTGGACACTGTTATGAAGTGTGCTTTAGCCACCAGGCGAGTTCAGTTGGATGTAAATTCAGGTCC
 TACACCAAGGCTGTTGAGGATCTAAACAACCTGATTTTCTTTCGTGTGAGGAGTGCCTTTTATGGGAACA
 GCATCATCTACAATATGTCTCTGATGGCCGTTTGTCCCGCCGGGCTGCCAGATTGCTCATGAGCACAC
 AGATGGAGTGATCAAAACGAGGAAGGCTCAGCTGCAGAATGAGGAAGAGCTTCAGAAGGCCAGGAAGAAG
 AGGCACTTGGATTTCTGGACATCCTGTTGTTGCCAAATGGAGGATGGGAAGAGCTTGTGAGATGAGG
 ACCTGCGTGCAGAGGTGGACACATTCATGTTTGAGGGTCATGACACCACAGCCAGTGAATCTCTGGGT
 TTTCTATGCTCTGGCCACCCACCTGAGCACCAGAGAGATGCAGAGAGGAGGTGCAGAGCATTCTGGGT
 GATGGAACCTCTGTCACATGGGACCACCTGGACCAGATGCCTTACACCACCATGTGATCAAGGAGGCC
 TGAGGCTCTACTACCTGTACCTTCTGTGAGTCGAGAGCTCAGCTCCCTGTACCTTCCAGATGGACG
 TTCCATACCCAAAGGTATCAGAGTCACAATTTTAAATTTATGGTCTTCATCATAACCCAAGTTACTGGCCA
 AACCCAAAGGTGTTTGACCCCTCTAGATTCTCACCAGATTCTCCTCGCCATAGCCATGCTTATCTGCCAT
 TCTCAGGAGGAGCAAGGAAGTGCATTGGGAAACAATTTGCCATGAATGAGCTGAAGGTAGCTGTGCCCT
 GACCCTGCTTCGCTTTGAGTTGCTGCCAGATCCACCAGGATCCCGGTCCCATGCCAAGACTTGTGTTG
 AAGTCCAAGAATGGGATCCACCTGCGTCTCAAGAAGCTAAGTA**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001044770
Insert Size: 1515 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:	<u>NM_001044770.2, NP_001038235.1</u>
RefSeq Size:	2044 bp
RefSeq ORF:	1515 bp
Locus ID:	24306
UniProt ID:	<u>P20816</u>
Cytogenetics:	5q35
Gene Summary:	member of the p450 4A subfamily; catalyzes the hydroxylation of arachidonic acid omega-terminal-carbon to 20-hydroxyeicosatetraenoic acid [RGD, Feb 2006]