

## Product datasheet for **RN212040**

### **Cyp4a1 (NM\_175837) Rat Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Cyp4a1 (NM_175837) Rat Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Cyp4a1                                |
| Synonyms:                 | Cyp4a10; Cyp4a22; CYP11A10            |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-Entry (PS100001)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |



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**Fully Sequenced ORF:** >RN212040 representing NM\_175837  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGTCTCTGCACTGAGCTCCACCCGCTTCACGGGCAGCATCTCTGGCTTCCTCAAGTGGCCTCCG  
 TGCTTGGTCTGCTTCTGCTGCTGGTCAAAGCAGTCCAGTTCTACCTGCAAAGGCAATGGCTACTCAAGGC  
 TTTCCAGCAGTTCCCATCACCTCCCTTCCACTGGTTCTTTGGGCACAAGCAGTTTCAAGGTGACAAAGAA  
 CTACAGCAAATTATGACATGTGTGGAGAATTTCCCAAGTGCCTTTCCTCGATGGTTCTGGGGAAGCAAAG  
 CCTACTTAATTGTCTATGACCCTGACTACATGAAGGTGATTCTCGGGCGATCAGATCCAAAGGCCAATGG  
 CGTCTACAGATTGCTAGCTCCTTGGATCGGATATGGTTTGCTCTTGCTGAATGGACAACCGTGGTCCAG  
 CACCGGCGAATGCTAACCCAGCCTTCCACTATGACATTCTGAAACCCTATGTAAAAACATGGCTGACT  
 CCATTGACTGATGCTAGACAAATGGGAACAGCTGGCAGGTCAAGACTCCTCTATAGAAATCTTTCAACA  
 TATCTCCTTAATGACCCTAGACACTGTCATGAAGTGTGCCTTCAGCCACAATGGCAGTGTTCAGGTGGAT  
 GGAAATTACAAGAGCTATATCCAGGCCATTGGGAACCTGAATGACCTCTTCACTCCCGTGTGAGGAACA  
 TCTTTCATCAGAATGATACCATCTATAATTTTTCTTCCAATGGCCACTTGTTCAACCGTGCTTGTCAACT  
 TGCCCATGATCACACAGATGGTGTGATCAAGCTAAGGAAGGATCAGCTGCAGAATGCGGGAGAGCTGGAA  
 AAGGTCAAGAAGAAAAGACGTTTGGATTTCTGGACATCCTTACTTGCCAGAATGGAGAATGGGGACA  
 GCTTGTCTGACAAGGACCTACGTGCTGAGGTGGACACATTTATGTTGAGGGTCATGACACCACAGCCAG  
 TGGAGTCTCCTGGATCTTCTATGCTCTGGCCACACACCTGAGCACCACAAAGATGCAGAGAGGAAGTT  
 CAGAGTGTCTGGGGGATGGGTCTCCATTACCTGGGATCACCTGGACCAGATTCCCTACACCACCATGT  
 GTATCAAGGAGGCCCTGAGGCTTTACCCACCTGTTCCAGGCATTGTCAGAGAAGTCAAGACATCTGTAC  
 CTTCCCTGATGGGCGCTCTTTACCCAAGGGTATCCAAGTCACACTCTCCATTTATGGTCTCCACCACAAC  
 CCGAAGGTGTGGCCAAACCCAGAGGTGTTTGACCTTCCAGGTTTGCACCAGACTCTCCCGACACAGCC  
 ACTCATTCTGCCCTTCTCAGGAGGAGCGAGGAAGTGCATTGGGAAACAATTTGCTATGAGTGAGATGAA  
 GGTGATTGTGGCCCTGACCCTGCTCCGCTTTGAGCTACTGCCAGATCCCACCAAGGTCCCATCCCTTA  
 CCACGACTTGCTGAAGTCCAAAAATGGGATCTACCTGTATCTCAAGAAGCTCCACT**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_175837  
**Insert Size:** 1530 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](mailto: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](#)

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_175837.1</a></u> , <u><a href="#">NP_787031.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq Size:</b>           | 2089 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1530 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 50549                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u><a href="#">P08516</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 5q35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | arachidonic acid monooxygenase; catalyzes the hydroxylation of omega-terminal carbon of the arachidonic acid [RGD, Feb 2006]                                                                                                                                                                                                                                                                                                                                                                                            |