

Product datasheet for **RN207658**

Cyp27a1 (NM_178847) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp27a1 (NM_178847) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cyp27a1
Synonyms:	Cyp27; P450C27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207658 representing NM_178847
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTGTGTTGAGCCGATGAGACTGAGATGGGCGCTTCTGGACACTCGTGTGATGGGCCATGGCCTCT
GCCACAAGGGCCAGAGCCAAGGCCGCGATCCCTGCAGCCCTCCGGGATCACGAGAGCACGGAGGTCC
AGGAACAGGTCAAGACCGACCGCCTGCGGAGTCTGGCGGAGCTTCCGGGACCCGGAACGCTACGCTTT
TTATTCCAGTATTTCTACGAGGCTATGTGCTGCACTTGACGAGCTCCAGGCGCTGAACAAGGCCAAGT
ACGGCCCAATGTGGACAACCACCTTTGGGACTCGACCAATGTGAATCTGGCTAGCGCCCGCTCTTGA
GCAAGTGTAGAGACAGGAGGCAAGTACCCATAAGAGACAGCATGGAGCAGTGAAGGAGCACCGAGAC
CACAAAGGCTCTCTATGGGATCTTCATCACACAAGGACAGCAGTGGTACCATCTGCGTCATAGTTGA
ATCAGCGGATGCTGAAGCCTGCTGAGGCAGCCCTACACAGATGCCTTAAACGAGGTATCAGTGACTT
TATTGCCCGGCTGGACCAGGTGCGGACAGAGATGCATCAGGGGATCAGGTGCCAGATGTGGCACATCTT
CTCTACCACCTTGCCCTTGAAGCCATCTGCTATATCCTGTTTGGAAAAGGGTTGGCTGCCTGGAGCCCT
CCATCCCTGAGGACACCGCCACCTTCATCAGATCTGTTGGACTCATGTTCAAGAAGTCACTATGTCCAC
TTTCTTCCCAAGTGGTCTCGGCCCTGCTGCCCTTTTGGAAAGCATAACGAATAACTGGGATAACATT
TTCTCCTTCGGGGAGAAGATGATTCATCAAAAAGTCCAGGAGATAGAAGCCAGCTACAGGCGGCTGGGC
CAGATGGGGTCCAGGTATCTGGCTACCTGCACTTCTGCTGACTAAGGAATTGCTCAGTCCCAAGAGAC
TGTCGGCACCTTTCTGAGCTGATCTGGCTGGGTAGACACGACATCCAATACACTGACCTGGGCCCTG
TATCACCTTTCAAAGAACCAGAGATCCAGGAAGCCTTGACAAGGAAGTACTGGTGTGGTACCCTTCG
GGAAGGTGCCCCAGAACAAGGACTTTGCCACATGCCCTGCTAAAAGCTGTGATTAAGGAGACCCTGCG
CCTCTACCCTGTGGTTCCCAAACTCCCGGATCATCACAGAAAAGGAAACTGAAATTAATGGCTTCCTC
TTCCCTAAGAATACACAGTTTGTGTTATGCCACTACGTGGTGTCCCGAGATCCCAGTGTCTTTCCTGAGC
CCGAGAGCTTCCAGCCTCACCGATGGCTGAGGAAGAGAGAGGACGATAACTCCGGGATCCAACACCATT
TGGCTCTGTGCCCTTTGGCTATGGGGTTCGGTCTGCCTGGTTCGAGGATTGCAGAACTGGAGATGCAA
CTCCTGCTGTCAAGGCTGATACAAAAGTATGAGGTGGTCTGTCTCCCGGATGGGAGAAGTGAAGTCTG
TGTCGCCGATCGTCTGGTTCAGCAAGAAGGTGAGCCTACGCTTCTGCAGAGACAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1906_e02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_178847

Insert Size: 1602 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: [NM_178847.2](#), [NP_849178.2](#)

RefSeq Size: 2150 bp

RefSeq ORF: 1602 bp

Locus ID: 301517

UniProt ID: [P17178](#)

Cytogenetics: 9q33

Gene Summary: mitochondrial enzyme with both vitamin D3 25-hydroxylase and cholesterol 26-hydroxylase activities [RGD, Feb 2006]