

Product datasheet for **RR211209**

Cyp24a1 (NM_201635) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp24a1 (NM_201635) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp24a1
Synonyms:	24-OHase; 24R-Ohase; Cyp24; P450-CC24; VITD12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR211209 representing NM_201635
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTGCCCCATTGACAAACGGCGCACCTGATCGCTTTTCTGCGCCGACTGCGCGACCTGGGACAGC
 CCCAAGGTGCGTGACATCCAAGGCGAGCGCTTCCCGCGCTCCAAAAGAGGTGCCCTCTGCCCGTGAT
 GACAGACGGTGAGACTCGAAACGTCACCTCCTTGCTGGGCCACCAACTGGCCACTGCTAGGGAGTCTA
 CTGGAGATTTTTGGAAAGGTGGCTGAAGAAACAGCACGACGCTGGCAGAGTACCACAAGAAGTATG
 GCCAGATTTCCGGATGAAGCTGGGCTCCTTCGACTCCGTGCATCTGGGCTCGCCGAGCCTGCTGGAAGC
 TCTGTACCGCACAGAGAGCGGCATCCCCAGCGACTGGAGATCAAACCTTGAAAGCCTATCGCGACCAC
 AGGAACGAAGCCTACGGGTTGATGATCCTGGAAGGACAGGAGTGGCAAAGGTCGCGAGCGCCTCCAGA
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 TCCTTTGAAAGCATCTGCCTTGTTATATGAGAAGAGATTTGGGCTCCTTCAAAAGGAGACAGAAGAAG
 AAGCGCTGACCTTCAATACGGCCATCAAACGATGATGAGCACGTTTGGGAAGATGATGGTGACCCCGT
 GGAGTTGCACAAGCGCCTCAACACCAAAGTGTGGCAGGCACATACGCTGGCTTGGGACACCATTTTCAA
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 AGTGGAGACGACCGCAACAGCTTGATGTGGATTCTCTACAATCTATCCCGAATCCTCAAGCGCAACGG
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 GAACCTGTGGAGATGCTGCACCTGGCATCCTGGTACCCAGCCGGGAGCTGCCAATTGCGTTCGCTCCAC
 GG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RR211209 representing NM_201635
 Red=Cloning site Green=Tags(s)

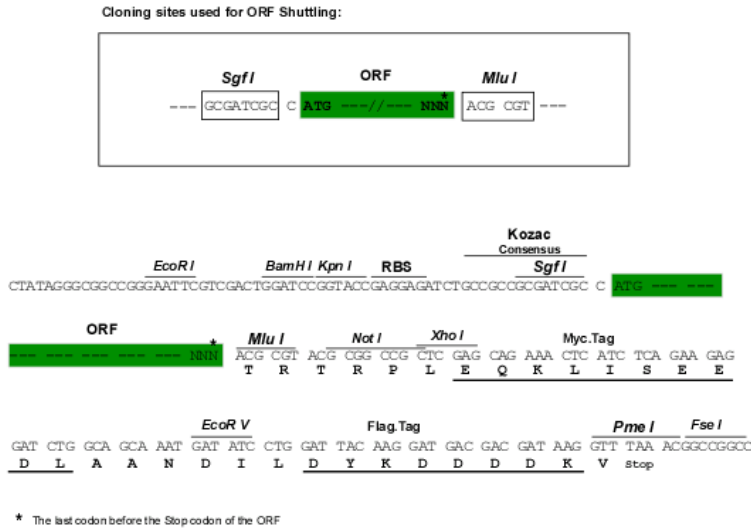
MSCPIDKRRRLIAFLRRLRDLGQPPRSVTSKASASRAPKEVPLCPLMTDGETRNVTSLPGPTNWPLLGSL
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 RNEAYGLMILEGQEWQRVSAFQKLMKPVEIMKLDKKINEVLADFLERMDLCDERGRIPDLYSELNWK
 SFESICLVLYEKRFLLQKETEEALTFITAIKTMSTFGKMMVTPVELHKRLNPKVWQAHTLAWDTIFK
 SVKPCIDNRLQRYSQPGADFLCDIYQQDHLKKELYAAVTELQLAAVETTANSLMWILYNLSRNPQQR
 RLLQEVQSVLPDNQTPRAEDLRNMPYLKACLKESMRLTPSVPTTRTLDKPTVLGEYALPKGTVLTLNTQ
 VLGSSDNFEDSHKFRPERWLQKEKINPFAHLPGIGKRMCIARRLAELQLHLALCWI IQKYDIVATDN
 EPVEMHLGILVPSRELPIAFRPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_201635

ORF Size: 1542 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_201635.3](#), [NP_963966.1](#)

RefSeq Size: 1545 bp

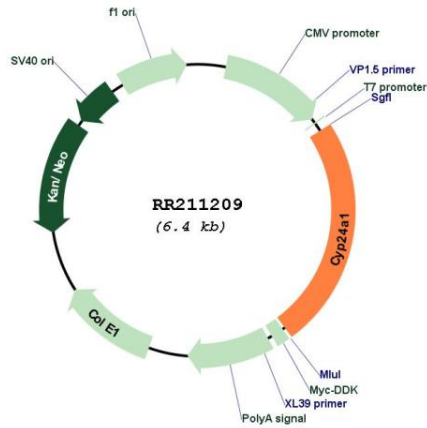
RefSeq ORF: 1545 bp

Locus ID: 25279

UniProt ID: [Q09128](#)

Cytogenetics: 3q42
 MW: 59.4 kDa
 Gene Summary: enzyme involved in vitamin D metabolism; linked to albuminuria, hyperlipidemia and atherosclerotic aorta lesions [RGD, Feb 2006]

Product images:



Circular map for RR211209