

Product datasheet for **RR205539**

Cyp3a9 (NM_147206) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp3a9 (NM_147206) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp3a9
Synonyms:	Cyp3a13; P450olf3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205539 representing NM_147206
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTGATCCCAAACCTTTCCATGGAACCTGGCTGCTCCTGGTTATCAGCCTGGTCTCTTACC
 TATATGGAACCTATTCACATGGAATTTTTAAAAAGTTGGGAATTCCTGGGCCCAAACCTTTGCCTTTCTT
 GGGGACGATTCTTGCTTACAGGAAGGGCTTCTGGGAATTTGACAAATACTGCCATAAAAAATATGGGAAA
 TTATGGGGTTGTACGATGGTCGACAGCCTGTGCTAGCGATCACGGATCCAGACATAATCAAAACAGTGC
 TGGTGAAGGAATGTTACTCTACCTTCAAAACCGACGGAATTTGGTCCAGTGGGTATTTGAAAAAAGC
 CATCTCCATCTCTGAGGATGAAGAATGGAAGAGAATTCGAGCCCTGCTGTCTCCAACCTTACCAGTGGG
 AAGCTCAAGGAGATGTTCCCATCATTAACAGTATACAGATATGTTGGTGAGAAACATGAGGCAGGGAT
 CGGAGGAAGCAAGCCCACCAGCATGAAAGACATCTTTGGGGCTACAGCATGGATGTGATCACAGCCAC
 CTCATTTGGAGTGAATGTTGATTCCCTTAACAACCCACAGGACCCTTTTGTGAAAAAATCAAGAAGCTC
 TAAAAATTTGATATCTTTGATCCATTGTTCTCTCAGTGACACTTTTTCATTCTTACCCCACTATTTG
 AAGCACTAAATGTCTCCATGTTTCCAAGAGATGTCATTGACTTTTTTAAACTTCAGTAGAACGAATGAA
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 TCCAAAGTCAAAGACTCTCATAAAGCATTATCCGATGTGGAGATTGTGGCCAGTCAGTTATCTTCATTT
 TTGCCGGCTATGAGACCACTAGCAGTGCCTTTCTTTGTTTGTATTGCTGGCCATTACCCTGATAT
 ACAGAAGAACTGCAGGATGAAATTGATGCAGCTCTCCCAATAAGGCACATGCCACCTATGATACCCTG
 CTACAAATGGAGTATCTAGATATGGTGGTGAATGAAACCTCAGATTATATCCAATTGCTGGAAGGCTTG
 AGAGGGTCTGTAAGACAGATGTTGAAATCAATGGGGTGTTCATTCCCAAAGGGACTGTGGTGATGATACC
 AACCTTTGCTCTTCACAAAGACCCGCATTACTGGCCAGAGCCTGAGGAATTCGCCCTGAAAGTTTCAGC
 AAGAAGAATCAGGATAACATCAATCCTTATATGTACCTGCCCTTTGGAATGGACCCAGGAAGTATTG
 GCATGAGGTTTGTCTCATGAACATGAAAGTTGCTCTTGTGAGAGTCTGCAGAACTTCTCCTTCCAACC
 TTGTAAGGAACTCAGATCCCTTTAAAATTGAGCAACAAGGACTTCTTCAACCAGAAAAGCCACTGCTT
 CTAAGAGTTGTGTCAGAGATGAGACTGTGAATGGAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205539 representing NM_147206
 Red=Cloning site Green=Tags(s)

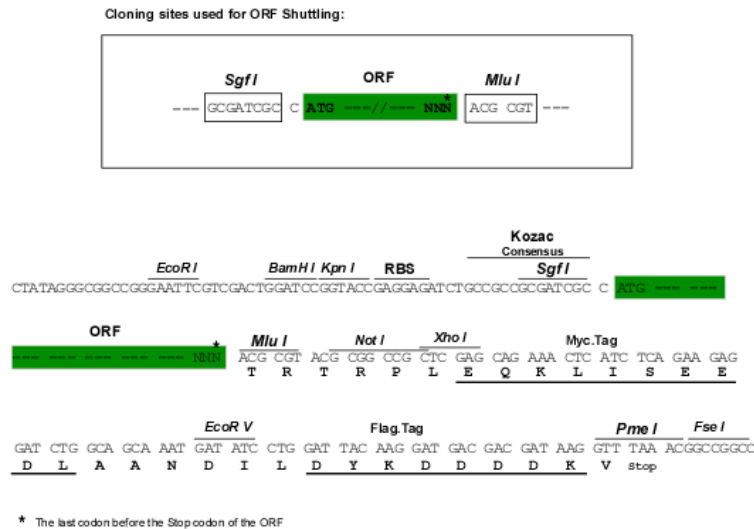
MDLIPNFSMETWLLLVISLVLLYLYGTHSHGIFKKLGIPGPKPLPFLGTLILAYRKGWFEFDKYCHKKYGK
 LWGLYDGRQPVLAITDPDIKTVLVKECYSTFTNRRNFGPVGILKKAISISEDEEWKRIRALLSPTFTSG
 KLKEMFPIINQYTDMLVRNMRQGSEEGKPTSMKIDFGAYSMDVITATSFGVNVDSLNNPQDPFVEKIKKL
 LKFDIFDPLFLSVTLFPFLTPLFEALNVSMFPRVIDFFKTSVERMKENRMKEKEKQRMDFLQLMINSQN
 SKVKDSHKALSDVEIVAQSVIFIFAGYETTSSALSFLVYLLAIHPDIQKKLQDEIDAALPNKAHATYDTL
 LQMEYLDMMVNETLRLYPIAGRLERVCKTDVEINGVFIKGTVMIPTFALHKDPHYWPEEFRPERFS
 KKNQDNINPYMYLPFGNGPRNCIGMRFALNMNKVALVRVLQNFQPKETQIPLKLSKQGLLQPEKPLL
 LKVVSRLDETNGA

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_147206

ORF Size: 1509 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_147206.2](#), [NP_671739.2](#)

RefSeq Size: 1976 bp

RefSeq ORF: 1512 bp

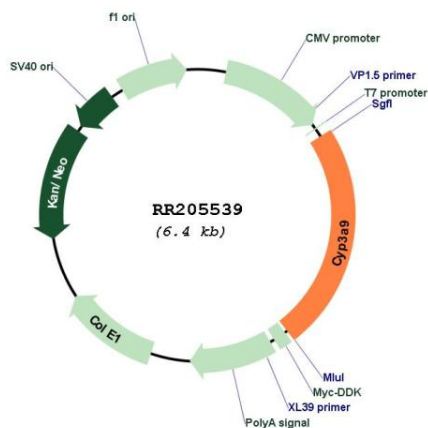
Locus ID: 171352

Cytogenetics: 12q11

MW: 57.8 kDa

Gene Summary: catalyzes the hydroxylation of progesterone at 6beta, 16alpha, and 21 positions [RGD, Feb 2006]

Product images:



Circular map for RR205539