

## Product datasheet for **RR216800**

### Cyp19a1 (NM\_017085) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp19a1 (NM_017085) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp19a1
Synonyms:	Aromatase; Cyp19; Cyp19a; p450arom
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216800 representing NM\_017085  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTTTGGAAATGCTGAACCCATGCACTATAATGTCACCATCATGGTCCCGAAACTGTGCCTGTCA  
 GTGCCATGCCACTTCTGCTGATCATGGCCTCCTCCTGATTGCGAATTGTGAGAGCTCATCTCCAT  
 ACCAGGTCCTGGCTACTGTCTGGGAATCGGCCTCTCATTCCCATGGCAGATTCTGTGGATGGGGATT  
 GGAAGTGCCTGCAACTACTACAATAAGATGTATGGAGAGTTCATGAGAGTCTGGATCAGTGGAGAGGAGA  
 CACTCATCATCAGCAAGTCTCGAGCATGGTCCATGTGATGAAGCACAGCAACTACATCTCCAGATTCCG  
 CAGCAAGCGTGGCTGCAGTGCATTGGCATGCACGAGAATGGCATCATATTTAACAACAACCCGAGCCTG  
 TGGAGAACGGTCCGCCCTTCTCATGAAAGCTCTGACGGGCCCTGGTCTTATTCGAATGGTAGAAGTCT  
 GTGTGGAATCCATCAAGCAGCATTGGACAGGCTGGGTGACGTCCTGACAACCTCGGCTACGTGGACGT  
 GGTGACCCTCATGAGACACATCATGCTGGACACTTCTAACACGCTCTTCTGGGGATCCCCCTGGACGAA  
 AGTTCTATTGTGAAGAAAATCCAGGGTTATTTAATGCCTGGCAAGCACTCCTTATCAAACCAAACATCT  
 TCTTTAAGATTTCTGGCTCTACAGAAAGTATGAGAGATCCGTC AAGGACTTGAAAGACGAGATCGAAAT  
 TCTGGTGGAAAAGAAAAGACAGAAAGTTTCTCAGCAGAGAACTGGAAGACTGTATGGATTTTGAACCT  
 GATTTGATTTTCGCTGAGAGACGTGGAGACCTGACAAAGGAGAACGTGAATCAGTGTATATTGAAAATGC  
 TGATTGCGGCCCTGACACCATGTCCGTCACCTGTACGTCATGTTGCTTCTCATCGCAGAGTATCCGGA  
 GGTGGAACAGCTATACTGAAGGAAATCCACACTGTTGTTGGTGACAGAGACATAAGGATTGGTGATGTG  
 CAAAATTTGAAAGTGGTGGAAAACCTTATTAACGAGAGCCTGCGGTATCAGCCTGCTGGACTTGGTCA  
 TGCCGAGAGCCCTGGAGGATGACGTGATTGACGGCTACCCGGTTAAAAAGGGAACATAACATCATTGTAA  
 CATCGGAAGAATGCACAGGCTCGAGTATTTCCCAAGCCAATGAATTTACCTTGAAAACCTTGAGAAAG  
 AACGTTCCCTACAGGTATTTTCAGCCATTTGGCTTTGGGCCCGCAGCTGTGCTGGGAAGTACATCGCCA  
 TGGTGATGATGAAAGTTGTCTGGTTACTCTTTGAAACGATTCCATGTGAAGACATTGCAAAAAAGGTG  
 TATTGAAAATATGCCAAAAATAATGACTTGTCTTGCATCTAGATGAGGACAGCCCATTTGGAAATA  
 ATTTTCTCTCAAGGAATTCAGAAAAGTACCTCAAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216800 representing NM\_017085  
 Red=Cloning site Green=Tags(s)

MFLEMLNPMHYNVTIMVPETVPVSAMPLLLIMGLLLLIRNCESSSSIPGPGYCLIGIPLISHGRFLWMI  
 GSACNYYNKMYGEFMRVWISGEETLIISKSSSMVHMKHSNYISRFSGKRGLQCIGMHENGIIFNNP  
 SLWRTVRRPFMKALTGPLIRMVEVCVESIKQHLDRLDGVDNDSGYVDVVTLMRHIMLDTSNLFLGIPLDE  
 SSIVKKIQGYFNAWQALLIKPNIFFKISWLYRKYERSVKDLKDEIEILVEKKRQKVSSAEKLEDCMDFAT  
 DLIFAERRGDLTKENVNQCILEMLIAAPDTMSVTLVYMLLLIAEYPEVETAILKEIHTVVGDRDIRIGDV  
 QNLKVVENFINESLRYQPVVDLVMRRALEDDVIDGYPVKKGTNIIILNIGRMHRLEYFPKPNEFTLENFEK  
 NVPYRYFPQFGFGRSCAGKYIAMVMKVVLTLLKRFHVKTLLQKRCIENMPKNNDSLHLDEDSPIVEI  
 IFSRPNSEKYLKQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_017085

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\\_017085.2](#), [NP\\_058781.2](#)

RefSeq Size: 2863 bp

RefSeq ORF: 1512 bp

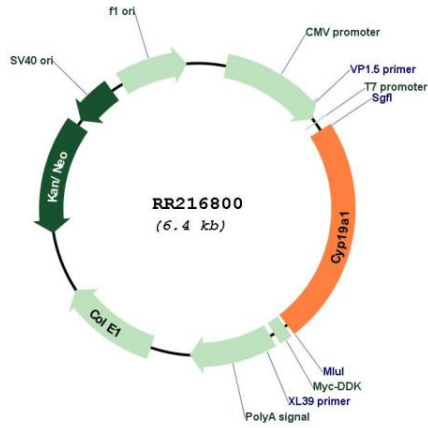
Locus ID: 25147

Cytogenetics: 8q24

MW: 57.8 kDa

**Gene Summary:** catalyzes end-step estrogen formation from androgens and aromatization of testosterone to estradiol [RGD, Feb 2006]

**Product images:**



Circular map for RR216800