

Product datasheet for **RR204575**

Cyp17a1 (NM_012753) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp17a1 (NM_012753) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp17a1
Synonyms:	Cyp17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR204575 representing NM_012753
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGGAACCTGTGGTCTCTTGTGCTCATCTAGCCTATTTCTTTGGTCAAGTCAAGACGCCCC
 GTGCCAAGCTCCCAGGAGCCTTCCATCCCTGCCCTGGTGGCAGTCTGCCGTTTCTCCCAGAGTGG
 TCATATGCATGTCAACTTCTCAAGCTACAGGAAAAGTATGGTCCCATCTATTCTTTCGCTGGTACC
 ACAACTACAGTATCATCGGCCACTATCAGCTGGCCAGGAGGTGCTCATCAAGAAGGAAAAGAATTCT
 CTGGTCGGCCCCAGATGGTACTCAAAGCCTTGTGCGACCAAGGAAAGGCGTGGCCTTTGCAGATGC
 TGGTAGCTCCTGGCACCTGCACCGAAGTTGGTGTTCAGCACCTTTCCCTGTTCAAGGATGGCCAGAAA
 CTGGAGAAGCTAATCTGTAGGAAGCCAAGTACTGTGTGATATGATGCTGGCACACGACAAGGAGTCCA
 TAGACCTGTCCACGCCTATCTTCATGTCAGTAACCAACATCATCTGTGCTATCTGCTTCAACATCTCTTA
 TGAGAAAAATGATCCAAAAGTACCGCCATAAAGACCTTTACTGAGGGTATCGTGGATGCCACGGCGAC
 AGAAATCTGGTGGACATATCCCATGGTTGACGATTTTTCCCAACAAAGGCTTGGAGGTGATAAAGGGTT
 ATGCCAAAGTTCGAAATGAAGTACTGACTGGAATATTTGAAAAGTGCAGGAGAAGTTCGACAGTCACTC
 TATCTCCAGCCTGACGGACATTCTGATTCAAGCCAAGTGAATTCAGACAACAACAACAGCTGTGAAGGC
 CGGGACCCAGATGTGTTTCAGATAGGCACATCCTTGCCACGGTGGGAGACATCTTTGGGCGGGCATAG
 AGACAACCTACACTGTGCTCAAGTGGATCCTGGCTTTCCTGGTGCACAATCCTGAGGTGAAGAAGAAGAT
 CCAAAAGGAGATTGACCAAGTACGTAGGCTTCAGCCGAACCAACTTTCAATGACCGGTCTCACCTCCTC
 ATGCTGGAGGCCACTATCCGAGAAGTGTGCGTATCAGGCCGGTGGCTCCCATGCTATCCCCACAAGG
 CTAACCTTGACTCCAGCATTGGAGAGTTACTGTCCCCAAGGACACACATGTGGTCAATCTCTGGGC
 ACTGCATCACGATGAGAATGAATGGGACCAGCCAGATCAGTTTCATGCCTGAACGCTTCTTAGATCCAACG
 GGAAGCCATCTATTACCCACGCAGAGTTACTTGCCCTTCGGAGCTGGTCCCCGATCCTGCATCGGAG
 AGGCTCTGGCCGTCAGGAGCTCTTTGTCTTACGGCCTTGCTACTGCAGAGTTTGACTTGGATGTGTC
 AGATGATAAACTGCCCCGCTGGAGGGTATCCCAAGGTAGTCTTTCTGATCGACCCTTTCAAAGTA
 AAGATCACGGTGCACCAGGCATGGATGGATGCACAGGCTGAGGTTAGCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204575 representing NM_012753
 Red=Cloning site Green=Tags(s)

MWELVGLLLLILAYFFWVKSKTGAKLPRSLPSLPLVGSLPFLPRRGMHVNFVKLQEKYGPYISLRLGT
 TTTVIIIGHYQLAREVLIKKGKEFSGRPQMVTQSLSDQKGVAFAADAGSSWHLHRKLVFSTFSLFKDGQK
 LEKLICQEAQSLCDMMLAHDKESIDLSTPIFMSVTNIIAICFNISYEKNDPKLTAIKTFTEGIVDATGD
 RNLVDFIPWLTIFPNKGLVIVIKGYAKVRNEVLTGIFEKREKFDSSQSISSLTDILIQAKMNSDNNNSCEG
 RDPDVFSDRHILATVGDIFGAGIETTTVLKWILAFVHNPEVKKIQKEIDQYVGFSRTPTFNDRSHLL
 MLEATIREVLRIRPVAPMLIPHKANVDSSIGFETVPKDTHTVVVNLWALHHDENEWDQPDQFMPERFLDPT
 GSHLITPTQSYLPFGAGPRSCIGEALARQELFVFALLLQRFDLVDVSDDKQLPRLEGDPKVVFLIDPFKV
 KITVRQAWMDAQAEVST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012753

ORF Size: 1521 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_012753.2](#), [NP_036885.1](#)

RefSeq Size: 1722 bp

RefSeq ORF: 1524 bp

Locus ID: 25146

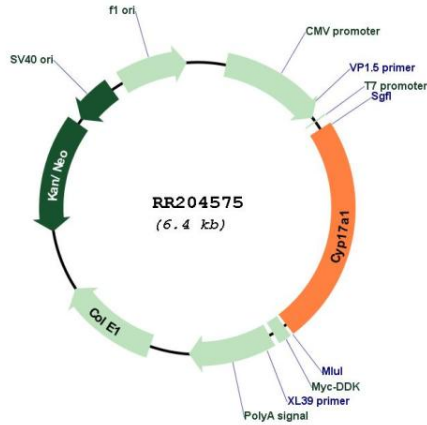
UniProt ID: [P11715](#)

Cytogenetics: 1q54

MW: 57.3 kDa

Gene Summary: steroid hydroxylase that comprises a main component of the steroidogenic pathway; activity culminates in corticosteroid and androgen production in adrenal gland and sex steroid production in gonads [RGD, Feb 2006]

Product images:



Circular map for RR204575