

Product datasheet for **RR210753**

Cyp11a1 (NM_017286) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Cyp11a1 (NM_017286) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cyp11a1 |
| Synonyms: | Cyp11a; Cypxia1; P450(scc); P450scc |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RR210753 representing NM_017286
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGGCAAAGGTCTTTGCCTGCGCTCAGTGTGGTCAAAGCTGCCAACCTTCTGAGCCCTGTGT
 GGCAGGGTCCAGGGCTGGCCACTGGAAATGGAGCTGGTATCTCCTCTACCAACAGTCCTCGATCCTTCAA
 TGAGATCCCTTCCCTGGTGACAATGGTTGGATAAACCTGTACCCTTCTGAGGAGAACGGCACACAC
 AGAATCCATTATCATCACATGCAGAATTTCCAGAAGTATGGCCCCATTTACAGGGAGAAGCTGGGCAACA
 TGGAGTCAGTTTACATCTGGACCCTAAGGACGCAGCGACTCTTCTCCTGCGAGGGTCTTAACCCGGA
 GCGCTACCTTGTCCCCCTGGGTGGCCTATCACCAGTATTACCAGAGGCCATTGGGGTACTGTTTAAAG
 AGTTCAGATGCCTGGAGGAAAGACAGAATTGCCTAAACCAAGAGGTGATGGCCCTGACTCCATCAAGA
 ACTTCGTGCCCTGCTGGAAGGTGTAGCTCAGGACTTCATCAAAGCTTACACAGACGCATCAAGCAGCA
 AAACCTCTGAAAGTTCTCAGGGGACATCAGCGATGACCTATTCCGCTTTGCTTTGAGTCCATCACCAGT
 GTTGATTTGGGGAGCGCTGGGGATGTTGGAGGAGATCGTGGACCCTGAGTCCCAGCGGTTTCATCGACG
 CCGTCTACCAGATGTTCCACACCAGTGTCCCATGCTCAACATGCCTCCAGACTTATTTGACTCTTTAG
 AACTAAGACCTGGAAGGACCATGCACTGCCTGGGATGTGATTTTCAGTAAAGCTGATGAATACCCAG
 AACTTCTACTGGGACTTAAGGCAGAAGCGAGACTTCAGCAAGTACCCTGGTGTCTTTATAGCCTCCTGG
 GAGGCAACAAGCTGCCCTTCAAGAACATCCAGGCCAACATCACAGAGATGCTGGCAGGAGGGGTGGACAC
 GACCTCCATGACTCTGCAATGGAACCTTATGAAATGGCACACAACCTGAAGGTACAGGAGATGCTGCGG
 GCTGAAGTTCTAGTCCCGGCCAGGCCAGGAGACATGGCCAAGATGGTCCAGTTGGTCCCCTCC
 TCAAAGCCAGCATCAAGGAGACACTGAGACTCCACCCCTCTGTGACCTTGACAGGATATATTGTGAA
 CGACCTGGTGCTTCGTAATTACAAGATTCCAGCCAAGACTTTGGTGCAGGTGGTAGCTATGCCATGGGT
 CGAGAATCCAGCTTCTTTCCCAATCCAAACAAGTTTGACCCAACCTCGTTGGTTGGAAAAAGCCAAAACA
 CCACGCACTTCCGGTACTTGGGCTTTGGCTGGGGTGTTCGGCAGTGTCTGGGCGCGGATTGCAGAGCT
 GGAAATGACCATCTTCTCATCAACGTGCTGGAAAACCTCAGAATTGAAGTTCAAAGTATCCGTGATGTG
 GGGACCAAGTTCAACCTCATCTGATGCCTGAGAAGCCTATCTTCTTCAACTTCCAGCCTCTCAAGCAGG
 ACCTGGGCTCAACTATGCCAGAAAAGGCGACTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210753 representing NM_017286
 Red=Cloning site Green=Tags(s)

MLAKGLCLRSVLVKSCQPFLSPVWQGPLATGNGAGISSTNSPRSFNEIPSPGDNGWINLYHFLRENGTH
 RIHYHHMQNFQYGPYREKLGNMESVYILDPKDAATLFSCEGPNPERYLVPWVAYHQYQRPYIGVLFK
 SSDAWRKDRIVLNQEVMAPDSIKNFVPLLEGVAQDFIKVLHRRKQNSGKFSGDISDDLFRFAFESITS
 VVFGERLGMLEEIVDPESQRFIDAVYQMFHTSVPMNMPDLFRLFRKTWKDHAAAWDVFISKADEYEQ
 NFWYDLRQKRDFSKYPGVLVSLLLGGNKLPFKNIQANITEMLAGGVDTTSMTLQWNLVEMAHNLKVQEMLR
 AEVLAARRQAQGDMAKMQVLPVLLKASIKETLRHPISVTLQRYIVNDLVLRNYKIPAKTLVQVASYAMG
 RESSFFPNPNKFDPTRWLEKSQNTTFRYLFGWGVQRCLGRRIAELEMIFLINVLENFRIEVQSIRDV
 GTKFNLILMPEKPIFFNFQPLKQDLGSTMPRKGDTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_017286

ORF Size: 1578 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_017286.2](#), [NP_058982.1](#)

RefSeq Size: 1581 bp

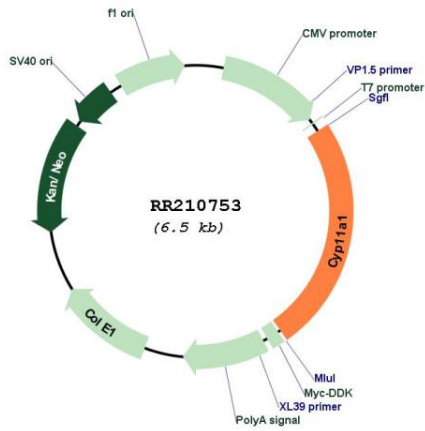
RefSeq ORF: 1581 bp

Locus ID: 29680

UniProt ID: [P14137](#)

Cytogenetics: 8q24
 MW: 60.6 kDa
 Gene Summary: monooxygenase that catalyzes synthesis of cholesterol and steroids [RGD, Feb 2006]

Product images:



Circular map for RR210753