

Product datasheet for **MR208434**

Cyp11a1 (NM_019779) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp11a1 (NM_019779) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp11a1
Synonyms:	csc; Cyp11a; Cypxia1; D9Ert411e; P450sc; Sc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208434 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGCTAAAGGACTTCCCTGCGCTCAGTGTGGTCAAAGGCTGCCAACCTTCTGAGCCCTACGT
 GGCAGGGTCCAGTGTGAGTACTGGAAAGGAGCTGGTACCTCTACTAGCAGTCCTAGGTCCTCAATGA
 GATCCCTTCCCCTGGCGACAATGGTTGGCTAAACCTGTACCCTTCTGGAGGGAGAGTGGCACACAGAAA
 ATCCATTACCATCAGATGCAGAGTTTCCAAAAGTATGGCCCCATTTACAGGGAGAAGCTGGGCACCTTTGG
 AGTCAGTTTACATCGTGGACCCCAAGGATGCGTCGATACTTCTCATGCGAGGGTCCCAACCCGGAGCG
 GTTCTTGTGCCCCCTGGGTGGCTATCACCAGTATTATCAGAGGCCATTGGGGTCTGTTTAAGAGT
 TCAGATGCCTGGAAGAAAGACCGAATCGTCTAAACCAAGAGGTGATGGCGCCTGGAGCCATCAAGAACT
 TCGTGGCCCTGCTGGAAGGTGTAGCTCAGGACTTCATCAAAGTCTTACACAGACGCATCAAGCAGCAAAA
 TTCTGAAATTTCTCAGGGGTCACTAGTGTGACCTATTCGCTTTTCTTTGAGTCCATCAGCAGTGTT
 ATATTTGGGAGCGCATGGGGATGCTGGAGGAGATCGTGGATCCCAGGCCACGGGTTCAATGCTG
 TCTACCAGATGTTCCACACCAGTGTCCCATGCTCAACCTGCCTCCAGACTTCTTTCGACTCCTCAGAAC
 TAAGACCTGGAAGGACATGCAGCTGCCTGGGATGTGATTTTCAATAAAGCTGATGAGTACACCCAGAAC
 TTCTACTGGGACTTAAGGCAGAAGCGAGACTTCAGCCAGTACCCTGGTGTCTTTATAGCCTCCTGGGG
 GCAACAAGCTGCCCTTCAAGAACATCCAGGCCAACATTACCGAGATGCTGGCAGGAGGGGTGGACACGAC
 CTCCATGACCTGCAGTGAACCTTTATGAGATGGCACACAATTGAAGGTACAGGAGATGCTGCGGGCT
 GAAGTCTGGCTGCCCGGCCAGGCCAGGAGACATGGCCAAGATGGTACAGTTGGTTTCACTCCTCA
 AAGCCAGCATCAAGGAGACACTGAGACTCCACCCATCTCCGTGACCTTGAGAGGTACACTGTGAATGA
 CCTGGTGTCTCGTAATTACAAGATTCAGCCAAGACTTTGGTACAGGTGGCTAGCTTGGCCATGGGTGCA
 GATCCGGGCTTCTTCCAAATCCAAACAAGTTGACCAACTCGTTGGCTGGAAAAAGCCAAAATACCA
 CCCACTCCGGTACTTGGGCTTTGGCTGGGGTGTTCGGCAGTGTCTGGCCGGCGGATTGCGGAGCTGGA
 GATGACCATCCTCTTATCAATCTGCTGGAGAACTTCAGAATTGAAGTTCAAAATCTCCGTGATGTGGG
 ACCAAGTTCAGCCTCATCTGATGCCTGAGAACCCATCTCTTCAACTCCAGCCTCTCAAGCAGGACC
 TGGGCCAGCCGTGACCAGAAAAGACAACACTGTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208434 protein sequence
 Red=Cloning site Green=Tags(s)

MLAKGLSLRSVLVKGCPFLSPTWQGPVLSGKAGTSTSSPRSFNEIPSPGDNGWLNLYHFWRESGTQK
 IHYHQMSFQKYGPIYREKLGTLVSVYIVDPKASILFSCGPNPERFLVPPWVAHYQYQRPVIGVLFKS
 SDAWKDRIVLNQEVMPGAIKNFVPLLEGVAQDFIKVLHRRIKQNSGNFSGVISEDLLFRFSFESSV
 IFGERMGMLEEIVDPEAQRFINAVYQMFHTSVPMLNLPPDFRLLRKTWKDHAAAWDVIFNKADEYTN
 FYWDLRQKRDFSQYPGLYSLLLGKNLFPKNIQANITEMLAGGVDTTSMTLQWNL YEMAHNLKVQEMLRA
 EVLAARRQAQGDMAKMQVLSLLKASIKETLRHPI SVTLQRYTVNDLVLRNYKIPAKTLVQVASFAMGR
 DPGFFPNPNKFDPTRWLEKSQNTTHFRYLGFVGWVVRQCLGRRIAELMILLINLLENFRIEVQNLRDVG
 TKFSLILMPENPILFNFQPLKQDLGPAVTRKDNTVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019779

ORF Size: 1581 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_019779.2](#), [NP_062753.2](#)

RefSeq Size: 1774 bp

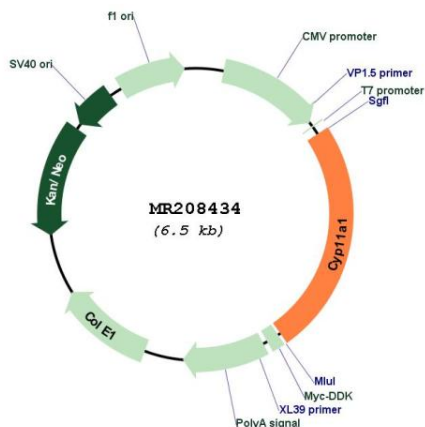
RefSeq ORF: 1581 bp

Locus ID: 13070

UniProt ID: [Q9QZ82](#)

Cytogenetics: 9 31.63 cM
MW: 60.3 kDa
Gene Summary: Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone, the precursor of most steroid hormones.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208434