

## Product datasheet for **MG224509**

### **Cyp19a1 (NM\_007810) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cyp19a1 (NM_007810) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp19a1
Synonyms:	Ar; ArKO; Cyp19; Int-5; Int5; p450arom
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224509 representing NM\_007810  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTCTTGAAATGCTGAACCCATGCAGTATAATGTCACCATCATGGTCCCGAAACTGTGACTGTCA  
 GTGCCATGCCACTCTGCTGATCATGGGCTCCTTCTCCTGATTTGGAATTGTGAGAGCTCGTCTTCAAT  
 ACCAGGCTCTGGCTACTGTCTGGGAATTGGGCCCTCATTCCCATGGCAGATTCCTGTGGATGGGATT  
 GGAAGTGCCTGCAACTACTACAATAAGATGTATGGAGAGTTCATGAGAGTCTGGATCAGTGGAGAGGAGA  
 CACTCATTATCAGCAAGTCTCAAGCATGTTCCATGTCATGAAGCACAGTCACTACATCTCCCGATTCCG  
 CAGCAAGCGTGGCTGCAGTGCATCGGCATGCATGAGAACGGCATCATATTTAACAACAACCCGAGCCTT  
 TGGAGAACAATTCGCCCTTCTTTATGAAAGCTCTGACGGGCCCTGGTCTGTTCGAATGGTGGAAAGTTT  
 GTGTGGAGTCCATCAAGCAGCATTGGACCGGCTGGGCGAAGTACCGACACCTCGGCTACGTGGATGT  
 GTTGACCCTCATGAGACACATCATGCTGGACACCTCTAACATGCTTCTCCTGGGGATCCCTCGGACGAA  
 AGTGCTATTGTGAAGAAAATCCAGGGTACTTTAACGCCTGGCAAGCTCTCCTCATCAAACCAAACATCT  
 TCTTTAAGATTTCTGGCTCTACAGAAAGTATGAACGATCCGTC AAGGACTTGAAAGACGAGATAGCTGT  
 TTTGGTGGAAAAGAAGAGACACAAAGTTTCCACAGCTGAGAACTGGAAGACTGTATGGATTTTGAACCT  
 GATTTGATTTTCGCTGAGAGACGTGGAGACCTGACGAAAGAGAACGTGAATCAGTGCATACTGGAGATGC  
 TGATTGCAGCCCTGACACCATGTCGGTCACTCTGACTTTCATGTTACTTCTCGTCGAGAGTATCCAGA  
 GGTCGAAGCAGCAATCCTGAAGGAGATCCACACTGTTGTGGGTGACAGAGACATAAAGATCGAGGATATC  
 CAAAATTTAAAAGTGGTGGAAAACCTTCAATGAAAGCATGCGGTACCAGCCTGTTGTGGACTTGGTCA  
 TGCCGAGAGCTCTGGAGGATGACGTAATTGACGGCTACCCGGTTAAAAAGGGAACATAACATCATTCTGAA  
 CATCGGAAGAATGCACAGGCTCGAGTACTTCCCTAAGCCCAATGAATTTACCCCTTGAAAACCTTTGAGAAG  
 AATGTTCCCTACAGTACTTTCAGCCTTTTGGCTTTGGGCCCGCGGCTGTGCTGGGAAGTACATCGCCA  
 TGGTGATGATGAAAGTTGTCTTGTTACTTGTGAGACGATTCCAGGTGAAGACACTGCAAAAAAGGTG  
 TATTGAAAACATACCGAAAAAGAATGACCTGTCTTGCACCCAAATGAGGACAGGCACCTTGTGAAATA  
 ATTTTCTCTCCAAGGAATTCAGACAAGTACCTCCAACAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224509 representing NM\_007810  
 Red=Cloning site Green=Tags(s)

MFLEMLNPMQYNVTIMVPETVTVSAMPLLLIMGLLLL IWNCESSSSIPGPGYCLIGIPLISHGRFLWMI  
 GSACNYNKMVGEFMRVWISGEETLIISKSSSMFHMVSHYISRFSGSKRGLQCIGMHENGIIFNPNPSL  
 WRTIRPFMKALTGPLVRMVEVCVESIKQHLDRLEGEVTDTSYVVDVLTLMRHIMLDTSNMLFLGIPLDE  
 SAIVKKIQGYFNAWQALLIKPNIFFKISWLRYKERSVKDLKDEIAVLVEKKRHKVSTAEKLEDCMDFAT  
 DLIFAERRGDLTKENVNQCILEMLIAAPDTMSVTLYFMLLLVAEYPEVEAAILKEIHTVVGDRIKIEDI  
 QNLKVVENFINESMRYQPVDLVMRRALEDDVIDGYVKKGTNIILNIGRMHRLEYFPKPNEFTLENFEK  
 NVPYRYFPQFGFPRGCAGKYIAMVMMKVVLVTLRRFQVKTQKRCIENIPKKNDSLHPNEDRHLVEI  
 IFSPRNSDKYLQQ

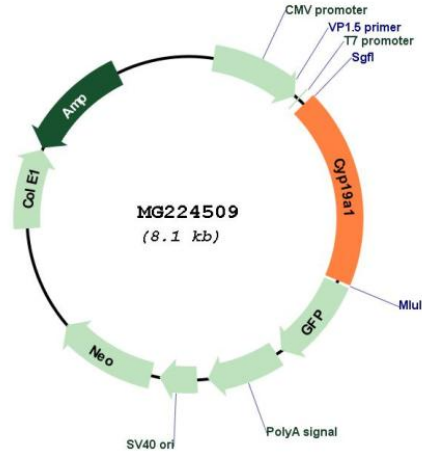
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



Plasmid Map:



ACCN: NM\_007810

ORF Size: 1509 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_007810.4](#)

**RefSeq Size:** 2373 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 13075

**UniProt ID:** [P28649](#)

**Cytogenetics:** 9 29.49 cM

**Gene Summary:** Catalyzes the formation of aromatic C18 estrogens from C19 androgens.[UniProtKB/Swiss-Prot Function]