

Product datasheet for **MG207923**

Cyp2a4 (NM_009997) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2a4 (NM_009997) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp2a4
Synonyms:	AI893559; Cyp15a1; D7Ucla4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207923 representing NM_009997
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGACCTCAGGACTCCTCCTGGTGGCTGCAGTGGCCTTCCTCAGCGTCTGGTTTTGATGTCTGTCT
 GGAAGCAGAGAAAGCTCTCAGGAAAGCTGCCTCCAGGACCCACCCACTGCCCTTCGTTGGGAACCTCCT
 TCAGCTGAACACAGAGCAAATGTACAACCTCTCATGAAGATCAGCCAACGTTATGGTCCTGATTACCC
 ATCTATCTGGGATCTCGCCGAATTGTGGTGTGTGCGGACAGGAGACAGTCAAGGAAGCTCTGGTGGACC
 AAGCTGAGGAATTCAGCGGGCGGGGCGAGCAGGCTACCTTCGACTGGCTTTTCAAAGGCTATGGCATAGC
 CTTCAGCAGCGGGGAGCGAGCCAAACAGCTAAGGCGCTTCTCCATCACCACGCTGCGGGACTTCGGCGTG
 GGAAGCGTGGCATCGAGGAGCGCATCCAAGAGGAGGCGGGCTTCTCATCGATTCAATTCGGAAGACGA
 ACGGTGCTTTCATTGACCCACCTTCTACCTTAGCCGAACAGTCTCCAATGTCATTAGCTCAATCGTCTT
 CGGGGACCGCTTTGACTATGAGGACAAAGAGTTCTGTCACTTCTAGAATGATGCTGGGAAGCCTCCAG
 TCACTGTACTCCATGGGGCAGGTCTATGAGATGTTTTCTTCTGTGATGAAACACCTGCCAGGGCCCC
 AGCAACAGGCCTTAAGGAGCTGCAAGGCTGGAGGACTTTATAACCAAGAAAGTGGAAACACAATCAGCG
 CACGCTGGATCCCAATCCCAAGGGACTTCATCGACTCCTTCTCATCCGAATGCTGGAGGAGAAGAAG
 AACCCCAATACTGAGTTCTACATGAAGAACTTGGTGTGACTACACTAAATCTCTTCTTTGCTGGCACAG
 AGACCGTCAGCACCCCTGCGCTATGGCTTCTGTTGCTCATGAAGTACCCAGATATTGAGGCCAAGGT
 CCATGAGGAGATTGATCGGGTATTGGCAGGAACCGGCAGCCCAAGTATGAGGACCGAATGAAGATGCC
 TATACGGAGGCTGTAATCCATGAGATCCAGAGATTTGCAGACCTGATCCCATGGGCCTGGCTCGAAGGG
 TCACCAAGGACACCAAGTTTCGAGATTTCTCCTCCCAAGGGTACTGAAGTATTTCTATGCTGGGCTC
 TGTGCTGAAAGACCCCAAGTTCTTCTCCAACCCCAAGACTTCAACCCAAAGCACTTCTAGATGACAAG
 GGACAGTTTAAGAAGAGTGATGCCTTTGTGCCCTTTTCCATTGGAACCGTATTGTTTCGGAGAAGGAC
 TGGCTAGGATGGAACCTTCTCTTCTCACAACATCATGCAGAACTTCCACTTCAAATCCACACAGGA
 ACCCCAGGACATCGATGTGTCTCTAGACTCGTGGGCTTGTGCAGATCCACCAACCTACACTATGAGT
 TTCTTGTCCCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207923 representing NM_009997
 Red=Cloning site Green=Tags(s)

MLTSGLLLVAAVAFLSVLVLMVWVQRKLSGKLPPTPLPFVGNFLQLNTEQMYNSLMKISQRYGPVFT
 IYLGSRRIIVLVCQETVKEALVDQAEFSGRGEQATFDWLFKGYGIAFSSGERAKQLRRFSITTLRDFGV
 GKRGIEERIQQEAGFLIDSFRKTNGAFIDPTFYLSRTVSNVISSIVFGDRFDYEDKEFLSLLRMMLGSLQ
 FTATSMGQVYEMFSSVMKHLPGPQQAFKELQGLEDFITKKVEHNQRTLDPNSPRDFIDSFLIRMLEEK
 NPNTFYMKNLVLTTNLFFAGTETVSTTLRYGFLLLMKYDIEAKVHEEIDRVIGRNRQPKYEDRMKMP
 YTEAVIHEIQRFADLIPMGLARRVTKDTKFRDFLLPKGTEVFPMLGSVLKDPKFFSNPKDFNPKHFLDDK
 GQFKKSDAFVPSIGKRYCFGEGLARMELFLFLTNIMQNFHFKSTQEPQDIDVSPRLVGFVTIPPTYTMS
 FLSR

TRTRPLE - GFP Tag - V

Restriction Sites:

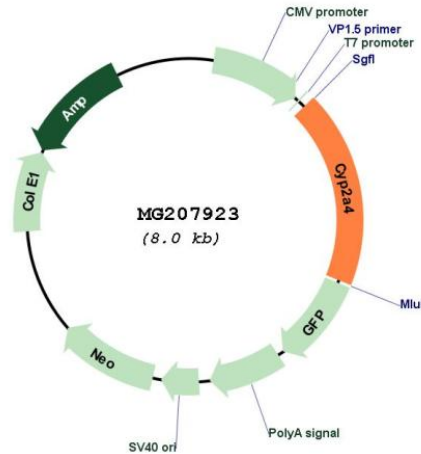
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_009997

ORF Size: 1482 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_009997.2](#), [NP_034127.2](#)

RefSeq Size: 1715 bp

RefSeq ORF: 1485 bp

Locus ID: 13086

UniProt ID: [P15392](#)

Cytogenetics: 7 14.39 cM

Gene Summary: Highly active in the 15-alpha-hydroxylation of testosterone. Also active in the 15-alpha-hydroxylation of progesterone and androstenedione. Little or no activity on corticosterone, pregnenolone, dehydroepiandrosterone, estradiol or estriol.[UniProtKB/Swiss-Prot Function]