

Product datasheet for **MG207922**

Cyp2a4 (BC011233) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2a4 (BC011233) 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)



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ORF Nucleotide Sequence:

>MG207922 representing BC011233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGACCTCAGGACTCCTCTGGTGGCTGCAGTGGCCTTCCTCAGCGTCTGGTCTTGATGTCTGTCT
 GGAAGCAGAGAAAGCTCTCAGGAAAGCTGCCTCCAGGACCCACCCACTGCCCTTATTGGGAACCTCCT
 TCAGCTGAACACAGAGCAAATGTACAACCTCTCATGAAGATCAGCCAACGTTATGGTCCTGTATTACC
 ATCTACCTGGGACCTCGCCGAATTGTGGTGTGTGCGGACAGGAGGCAGTCAAGGAAGCTCTGGTGGACC
 AAGCTGAGGAATTCAGCGGGCGGGGCGAGCAAGCTACCTTCGACTGGCTTTTCAAAGGCTATGGCGTAGC
 CTTCAGCAGCGGGGAGCGAGCCAAACAGCTAAGGCGCTTCTCCATCGCCACGCTGCGGGACTTCGGCGTG
 GGAAGCGTGGCATCGAGGAGCGCATCCAAGAGGAGGCGGGCTTCTCATCGATTCAATTCGAAGACGA
 ACGGTGCTTTTATTGACCCACCTTCTACCTAGCCGAACAGTCTCCAATGTCATTAGCTCAATTGTCTT
 CGGGGACCGCTTTGACTATGAGGACAAAGAGTTCTGTCTACTGCTCGAATGATGCTGGGAAGCTCCAG
 TTTACTGTACTCCATGGGGCAGCTCTATGAGATGTTCTTCTGTGATGAAACACCTGCCAGGGCCCC
 AGCAACAGGCCTTAAGGAGCTGCAGGGCTGGAGGACTTCATAACCAAGAAAGTGAACACAATCAGCG
 CACGCTGGATCCCAATCCCAAGGGACTTCATCGACTCCTTCTCATCCGAATGCTGGAGGAGAAGAAG
 AACCCCAATACTGAGTTCTACATGAAGAACTTGGTGTGACTACACTAAATCTCTTTTCTGGGCACAG
 AGACCGTCAGCACCCCTGCGCTATGGCTTCTGTTGCTCATGAAGCACCCAGATATTGAGGCCAAGGT
 CCATGAGGAGATTGATCGGGTATTGGCAGGAACCGGCAGCCCAAGTATGAGGACCGAATGAAGATGCC
 TATACGGAGGCTGTAATCCATGAGATCCAGAGATTTGCAGACATGATCCCATGGGCCTGGCTCGAAGGG
 TCACCAAGGACACCAAGTTTCGAGATTTCTCCTCCCAAGGGTACTGAAGTGTTCCTATGCTGGGCTC
 TGTGCTGAAAGACCCCAAGTTCTTCTCCAACCCCAAGACTTCAACCCAAAGCACTTCTATGATGACAAG
 GGACAGTTTAAGAAGAATGATGCCTTTGTGCCCTTTTCCATTGGAACCGTATTGTTTCGGAGAAGGAC
 TGGCTAGGATGGAACCTTCTCTTCTCACAACATCATGCAGAACTTCCACTTCAAATCCACACAGGC
 ACCCCAGGACATCGATGTGTCTCTAGACTCGTGGGCTTGGCACGATCCCAACCTACACTATGAGT
 TTCTTGTCCCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207922 representing BC011233
 Red=Cloning site Green=Tags(s)

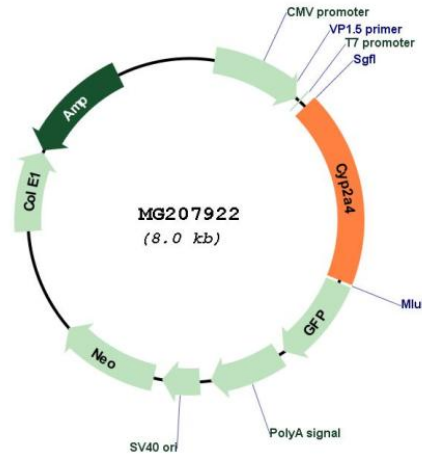
MLTSGLLLVAAVAFSLVLMSVWKQRKLSGKLPPTPLPFIGNFLQLNTEQMYNSLMKISQRYGPVFT
 IYLGPRRIVVLCGQEAVKALVDQAEFSGRGEQATFDWLFKGYGVAFSSGERAKQLRRFSIATLRDFGV
 GKRGIEERIQQEAGFLIDSFRKTNGAFIDPTFYLSRTVSNVISSIVFGDRFDYEDKEFLSLLRMMLGSFQ
 FTATSMGQLYEMFSSVMKHLPGPQQAFKELQGLEDFITKKVEHNQRTLDPNSPRDFIDSFLIRMLEEK
 NPNTFYMKNLVLTTLNLFAGTETVSTTLRYGFLLLMKHPDIEAKVHEEIDRVIGRNRQPKYEDRMKMP
 YTEAVIHEIQRFADMIPMGLARRVTKDTKFRDFLLPKGTEVFPMLGSVLKDPKFFSNPKDFNPKHFLDDK
 GQFKKNDAFVPSIGKRYCFGEGLARMELFLLTNIMQNFHFKSTQAPQDIDVSPRLVGFATIPPTYTMS
 FLSR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: BC011233

ORF Size: 1484 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: [BC011233](#), [AAH11233](#)

RefSeq Size: 1706 bp

RefSeq ORF: 1484 bp

Locus ID: 13086

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]