

Product datasheet for **MG208179**

Cyp4a10 (NM_010011) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4a10 (NM_010011) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp4a10
Synonyms:	AI647584; Cyp4a; D4Rp1; Msp-3; RP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208179 representing NM_010011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGTCTCTGCTCTAAGCCCAACCCGATTTGCAGACAGCCTCTCTGGCTTCTCCAAGTGGCCTCTG
 TGCTCGGTCTGCTCCTGCTGCTGGTGAAGCTGTCCAGTTCTACCTCCACAGGCAATGGCTACTCAAGGC
 TTTCCAGCAGTTCCCATCACCTCCTTTTACTGTTCTTTGGGCATGAGCAGTTCAAAGGTGACCACGAA
 CTACAGGAAATTGTGCTGTCATAGAGAACTTCCCAAGTGCCTTTCTAGATGGTTCTGGGGAAGCAAGG
 CCTACTTAACTGTCTATGACCCTGACTACATGAAAGTGATTCTGGGGCGATCAGATCCAAAGGCTAATGG
 TGCGTACAGATTGCTAGCTCCTTGGATTGGGTATGGTTTGTCTTGTGTAATGGACAGCCATGGTTCCAG
 CACAGGAGGATGCTAACCCAGCCTTCCACTATGACATTCTGAAACCCTATGTGAAAAACATGGCCGACT
 CCATTCGATTGATGCTAGACAAATGGGAACGGCTGGCTGATCAGGACTCCTCTATAGAGATCTTTCAACA
 CATCTCCTTAATGACCCTAGACACTGTCATGAAATGTGCCTTCAGCCACAAGGGCAGTGTTCAGGTAGAT
 GGAATACAGGACCTACCTCCAGGCCATTGGGGACTTGAATAACCTATTTCACTCCCCTGTGAGGAATA
 TCTTTTCATCAGAATGATACCATCTACAAACTTTCTTCCAATGGCCGCTTGGCCAAACAAGCTTGTCAACT
 TGCCCATGATCACACAGATGGAGTGATCAAGCTGAGAAAGGATCAGTGCAGGATGAGGGAGAGCTGGAA
 AAGATCAAGAAGAAGAGACGTTTGGATTTCTGGATATCCTTTTATTTGCCAGAATGGAGAATGGGGACA
 GCATGTCTGACAAGGACCTACGTGCTGAGGTGGACACATTCATGTTTCGAGGGCCATGACACCACAGCCAG
 TGGAGTCTCCTGGATCTTCTATGCTCTGGCCACACACCCTGATCACCAACAGAGATGCAGAGAGGAAGTT
 CAGAGCCTCCTGGGGATGGATCCTCTATCACCTGGGATCACCTAGACCAGATTCCTATACCAATGT
 GCATCAAGGAGGCCCTAAGGCTCTACCCACCTGTCCCAGCATTGTCAGAGAACTCAGTACATCTGTCAC
 CTTCCCTGATGGACGCTCTTACCCAAAGGTGCCAGGTACACTCTCCATTTATGGTCTCCACCACAAC
 CCGAAGGTGTGGCCAAATCCAGAGGTGTTTACCCTTCCAGTGTGACCCAGACTCTCCCGACACAGCC
 ACTCATTCTGCCCTTCTCAGGAGGAGCCAGGAACTGCATTGGGAAACAATTTGCTATGAGTGAGCTGAA
 GGTGATTGTGGCCCTGACACTGCTCCGCTTCAACTACTGCCAGATCCTACCAGGGTCCCATGCCCCTTA
 GCCCGACTTGTGCTGAAGTCCAAAAATGGGATCTACCTACATCTCAAGAAGCTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208179 representing NM_010011
 Red=Cloning site Green=Tags(s)

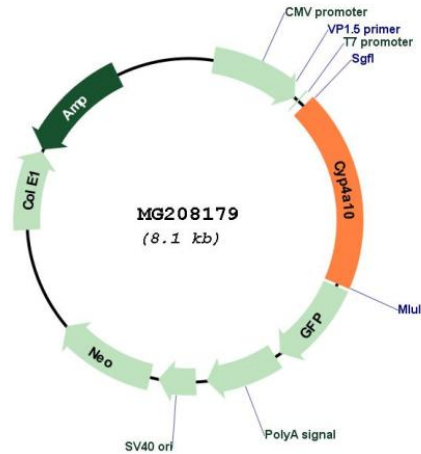
MSVSALSPTRFADSLSGFLQVASVLGLLLLLVKAVQFYLRQWLLKAFQQFPSPPFHWFHGHEQFKGDHE
 LQEIVSCIENFPSAFPRFWGSKAYLTVYDPDYMKVILGRSDPKANGAYRLLAPWIGYGLLLLLNGQPWFQ
 HRRMLTPAFHYDILKPYVKNMADSIIRMLDKWERLADQDSSIEIFQHISLMTLDTVMKCAF SHKGSVQVD
 GNYRTYLQAIGDLNLFHSRVRNIFHQNDTIYKLSSNGRLAKQACQLAHDHTDGVIKLRKQQLQDEGELE
 KIKKKRRLDFLDILLFARMENGDSMSDKDLRAEVDTFMFEGHDTTASGVSWIFYALATHPDHQRCREEV
 QSLLGDGSSITWDHLDQIPYTTMCIKEALRLYPPVPGIVRELSTSVTFPDGRSLPKGVQVTLSTIYGLHHN
 PKVWPNEVFDPSPRFAPDSRPHSHSFLPFGSGARNICIGKQFAMSELKVIIVALTLRLRFELLDPDTRVPMPL
 ARLVLKSKNGIYLHLKLLH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_010011

ORF Size: 1527 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_010011.2](#), [NP_034141.2](#)

RefSeq Size: 2085 bp

RefSeq ORF: 1530 bp

Locus ID: 13117

UniProt ID: [O88833](#)

Cytogenetics: 4 53.05 cM

Gene Summary: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. [UniProtKB/Swiss-Prot Function]