

Product datasheet for **MG208215**

Cyp4b1 (NM_007823) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp4b1 (NM_007823) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp4b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208215 representing NM_007823
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCTCAGCTTTCTCTCTCCAAGCCTTCCCGCCTCGGCCTGTGGGCTTCTGTAGTGATCCTGATGG
 TAACCGTCTGAAGCTCCTCAGCCTGCTGTTTCGGAGGCAGAAGCTGGCCAGGGCTTGGACAGCTTCCC
 AGGGCCCCCAAGCACTGGCTTTTTGGTCATGCCCTTGAGATCCAGAAGCAGGAGGCCTGGACAAGGTG
 GTAACCTGGACCGAACAGTTCCCTATGCCACCCACTCTGGCTTGGACAATTTATTGTTTTCTGAACA
 TCTATGAGCCTGACTATGCTAAAGCTGTATACAGCCGAGGGGACCCGAAGGCTGCATATGTGTACTT
 CTTCTCCAGTGGATCGGAAAAGGCCTACTGGTTCTGGAAGGGCCAAAATGGTCCAGCACCGCAAGCTG
 CTCACACCTGGCTTCCATTATGATGTGCTGAAGCCCTATGTGGCCATATTTGCTGAGTCCACACGGGTGA
 TGCTGGACAAGTGGGAGAAAAAGGCTAGTGAGAATAAGAGCTTTGACATCTTCTGTGACGTGGGCCACAT
 GGCCTGGACACCCTCATGAAGTGCACCTTTGGCAAAGGAGACAGCGGCCTAAGCCACAGTGACAACAGC
 TACTACCTGGCAGTTAGTGACCTCACACTGCTGATGCAGCAGCGCATTGACTCCTCCAGTACCATAATG
 ACTTCATTTACTGGCTCACACCACATGGCCGCCGTTTCTTGGCGGCTGCCAGATAGCCCATGACCATAC
 AGATCATGTATCAGGCAGCGGAAGGCAGCTCTGCAGGATGAGAAGGAGCAGAAAAAGCTTCAGGAGCGG
 AGACACCTGGACTTCTCGACATTCCTCCTGGGTGCCCGGATGAAAGTGGGATCAAGTTGTGAGATGCAG
 ACCTCCGGGTGAAGTGGACACATTCATGTTTGAAGGCCACGACACCACCACTAGTGGTATCTCTTGGTT
 TCTCTACTGCATGGCCCTTATCCTATGCACCAGCAGCGATGTAGGGAGGAGTCCGTGAGATCCTAGGG
 GACCGGGACTCCTCCAGTGGGATGATCTGGCCAGATGACCTACCTGACCATGTGCATGAAGGAGTGTCT
 TCCGCTCTACCCACCTGTACCCCAAGTGTACCCAGCTCAGCAAGCCAGTAACCTTTGTGGATGGCCG
 CTCTCTACCTGCAGGCAGCCTGATCTCTGACACATCTATGCCCTCCATCGGAACAGTGTGTGTGGCCT
 GACCCAGAGGTCTTTGACCCACTGCGCTTTTCTCTGAGAATATGACAGGACGGCATCCCTTTGCCTTCA
 TGCCTTTTTCTGCAGGGCCAGGAATTGCATTGGGCAACAGTTTGCCATGAACGAGATGAAGGTGGTCA
 AGCCCTCTGTTTGTGCGCTTTGAATTCTCTCCAGATCCCTCAAAGATCCCCATTAAGGTCCCCAGCTG
 ATCTTGCCTCCAAAAATGGCATCCACCTCTACCTGAAGCCACTGGGCCCTGGGTCTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208215 representing NM_007823
 Red=Cloning site Green=Tags(s)

MALSFLSPSLRSLGLWASVVILMVTVLKLLSLLFRRQKLARALDSFPGPPKHWLFGHALEIQKTGGLDKV
 VTWTEQFPYAHPLWLQGFIVFLNIYEPDYAKAVYSRGPDKAAAYVYDFLQWIGKLLVLEGPKWQHRKL
 LTPGFHYDVLKPYVAIFAESTRVMLDKWEKKASENKSFDIFCDVGHMALDTLMKCTFGKGDGSLSHSDNS
 YYLAVSDLTLLMQQRIDSFQYHNDFIYWLTPHGRRFLRACQIAHDHTDHVIRQRKAALQDEKEQKKLQER
 RHLDFLDILLGARDESGIKLSDADLRAEVDTFMFEGHDTTSGISWFLYCMALYPMHQRCREEVREILG
 DRDSFQWDDLAQMTYLTMCMECFRLYPPVPVYRQLSKPVTFVDGRSLPAGSLISLHIYALHRNSAVWP
 DPEVDFPLRFSPENMTGRHPFAFMPFSAGPRNCIGQQFAMNEMKVVTALCLLRFEPSPDPSKIPIKVPQL
 ILRSKNGIHLKPLGPGSGK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_007823.2](#), [NP_031849.1](#)

RefSeq Size: 1871 bp

RefSeq ORF: 1536 bp

Locus ID: 13120

UniProt ID: [Q64462](#)

Cytogenetics: 4 53.06 cM

Gene Summary: Responsible for mutagenic activation of 3-methoxy-4-aminoazobenzene (3-MeO-AAB); a potent procarcinogen. Also active on 2-aminofluorene and 2-aminoanthracene. [UniProtKB/Swiss-Prot Function]