

Product datasheet for **MG220120**

Cyp2r1 (NM_177382) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2r1 (NM_177382) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyp2r1
Synonyms:	MGC124198; MGC124199
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220120 representing NM_177382
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGAGCTACCGGGAGCCCGGGCGTGCCTGGGGCGCTCGCGGGCGCTCTCCTGCTGCTGCTCTTCG
 TGCTGGTGGTCCGCCAGCTGCTGAGGCAGAGCGACCGGGCGGCTTCCCCCGGGTCTCCGCGGCTGCC
 ATTTGTCGGCAACATCTGCTCCCTGGCCTTGTCGGCCGATCTTCCCCACGTCTACATGAGGAAGCAGAGC
 CGGGTGTATGGCGAGATTTTCAGTTTAGATCTTGGAGGCATATCAACTGTCGTTCTAAATGGCTATGATG
 TAGTAAAGGAATGCCTTGTTCATCAAAGTAAAATTTTGCAGATAGACCATGCCTTCCTTTGTTTCATGAA
 GATGACAAAAATGGGAGGCTTACTCAATCCAGATATGGTAGAGGATGGATTGATCACAGAAGGTTGGCT
 GTTAACAGCTTTCATTATTTTGAAGTGGCCAAAAATCTTTTGAATCTAAAATTTTAGAAGAACTTGGT
 CTTTAATTGATGCTATTGAAACATACAAAGGTGGACCTTTTGACCTCAAGCAACTGATAACAAATGCTGT
 TTCAAACATAACTAACCTTATCCTTTTTGGAGAACGATTCACTTATGAAGACACTGATTTTCAGCACATG
 ATTGAATTATTTAGTGAGAATGTGGAACAGCTGCCAGTCTCCAGTCTTCTTTATAATGCATTTCCAT
 GGATTGGCATCTTACCTTTTGGGAAACATCAAAGACTATTTAGAAATGCAGATGTGGTCTATGATTTCT
 CTCCAGACTTATTGAAAAAGCTGCAGTCAATAGAAAGCCTCATTTACCTCACCATTTTGTGATGCCTAT
 TTAGATGAGATGGATCAAGGTCAAAATGATCCTTTATCTACATTTTCAAAGAGAATCTAATTTTTTCAG
 TGGGTGAACATCATATTGCTGGAAGTGAAGTACAACCAATGTGCTCCGCTGGGCAATCTTTTCATGGC
 CCTTTATCCTAATATTCAAGGACAAGTTCATAAAGAGATTGATTAATTGTTGGCCACAACAGGAGACCT
 TCTTGGGAATACAAATGCAAAATGCCTTATACTGAAGCAGTTTACATGAAGTTTTAAGATTCTGTAATA
 TAGTCCACTGGGAATTTCCATGCAACTCGGAAGATGCAGTTGTACGTGGCTATTCCATTCTAAAGG
 CACAACAGTCATTACAAATCTTTATTCTGTTCACTTTGATGAAAAGTACTGGAAAAGATCCAGACATGTTT
 TATCCTGAGCGATTTCTGGACAGCAATGGATATTTTACTAAAAAGGAAGCTTTGATTCTTTTTCTCTAG
 GGAGAAGACATTGCTTGGAGAACAGCTGGCTCGAATGGAAATGTTCTTGTTTTTTACATCATTACTTCA
 GCAATTTTCAATTTCCACATGAAGTCCAAATCTGAAGCCCAGGTTGGGCATGACATTACAA
 CCCAGCCCTACCTCATCTGTGCAGAAAGACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220120 representing NM_177382
 Red=Cloning site Green=Tags(s)

MLELPGARACAGALAGALLLFLVVRQLLRQRRPAGFPPGPPRLPFVGNICSLALSADLPHVYMRKQS
 RYVGEIFSLDLGGISTVVLNGYDVVKECLVHQSEIFADRPCLPLFMKMTKMGLLNSRYGRGWIDHRRLA
 VNSFHYFGSGQKSFESKILEETWSLIDAIETYKGGPFDLKLITNAVSNITNLILFGERFTYEDTDFQHM
 IELFSENVELAASAPVFLYNAPFWIGILPFGKHQRLFRNADVVDYDFLSRLIEKAAVNRKPHLPHHFVDAY
 LDEMDQGQNDPLSTFSKENLIFSVGELIIAGTETTTNVLRWAILFMALYPNIQGGVHKEIDLIVGHNRPP
 SWEYKCKMPYTEAVLHEVLRFCNIVPLGIFHATSEDAVVRGYSIPKGTTVITNLYSVHFDEKYWKDPDMF
 YPERFLDSNGYFTKKEALIPFSLGRRHCLGEQLARMEMFLFFTSLLQQFHLPHELVPNLKPRLGMTLQ
 PQPYLICAERR

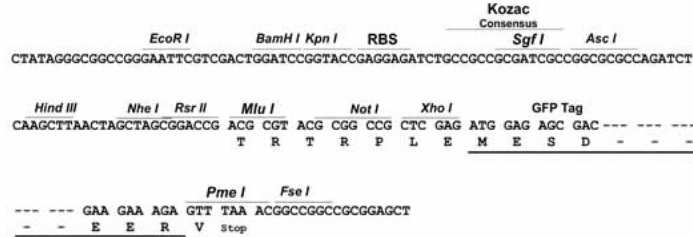
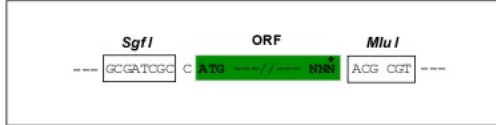
TRTRPLE - GFP Tag - V

Restriction Sites:

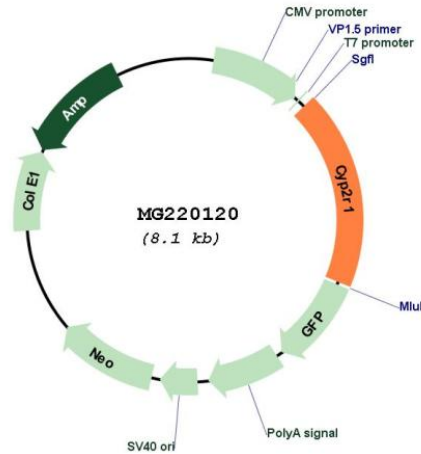
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_177382

ORF Size: 1503 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_177382.4](#), [NP_796356.2](#)

RefSeq Size: 1639 bp

RefSeq ORF: 1506 bp

Locus ID: 244209

UniProt ID: [Q6VWW9](#)

Cytogenetics: 7 F1

Gene Summary: Has a D-25-hydroxylase activity on both forms of vitamin D, vitamin D(2) and D(3).
[UniProtKB/Swiss-Prot Function]