

Product datasheet for **RG207030**

CYP4X1 (NM_178033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYP4X1 (NM_178033) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYP4X1
Synonyms:	CYPIVX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207030 representing NM_178033
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATTCTCCTGGCTGGAGACGCGCTGGGCGCGGCCCTTTACCTGGCGTTCTGTCTGCCTGGCCC
 TGGGGCTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGCCCTTCCC
 AGCGCCCCCACCACCTGGTTCCTTGGGCACCAGAAAGTTTATTACAGGATGATAACATGGAGAAGCTTGAG
 GAAATTATTGAAAAATACCCTCGTGCCTTCCCTTTCTGGATTGGGCCCTTTCAGGCATTTTCTGTATCT
 ATGACCCAGACTATGAAAGACACTTCTGAGCAGAACAGATCCCAAGTCCAGTACCTGCAGAAATTCTC
 ACCTCCACTTCTTGAAAAGGACTAGCGGCTCTAGACGGACCCAAGTGGTCCAGCATCGTCGCCTACTA
 ACTCCTGGATTCCATTTTAACATCCTGAAAGCATACATTGAGGTGATGGCTCATTCTGTGAAAATGATGC
 TGGATAAGTGGGAGAAGATTTGCAGCACTCAGGACACAAGCGTGGAGGTCTATGAGCACATCAACTCGAT
 GTCTCTGGATATAATCATGAAATGCGCTTTCAGCAAGGAGACCAACTGCCAGACAAACAGCACCCATGAT
 CCTTATGCAAAAGCCATATTTGAACTCAGCAAAATCATATTTACCGCTTGTACAGTTTGTGTATCACA
 GTGACATAATTTCAAACCTCAGCCCTCAGGGCTACCGCTTCCAGAAGTTAAGCCGAGTGTGAATCAGTA
 CACAGATACAATAATCCAGGAAAGAAAGAAATCCCTCCAGGCTGGGGTAAAGCAGGATAAAGTCCGAAG
 AGGAAGTACCAGGATTTTCTGGATATTGTCCTTTCTGCCAAGGATGAAAGTGGTAGCAGCTTCTCAGATA
 TTGATGTACACTCTGAAGTGAGCACATTCCTGTTGGCAGGACATGACACCTTGGCAGCAAGCATCTCCTG
 GATCCTTTACTGCCTGGCTCTGAACCTGAGCATCAAGAGAGATGCCGGGAGGAGGTGAGGGCATCCTG
 GGGGATGGGTCTTCTATCACTTGGGACCAAGTGGGTGAGATGTCGTACACCACAATGTGCATCAAGGAGA
 CGTGCCGATTGATTCCTGCAGTCCCGTCCATTTCCAGAGATCTCAGCAAGCCACTTACCTTCCAGATGG
 ATGCACATTGCCTGCAGGATCACCGTGGTCTTCTAGTATTTGGGTCTTACCACAACCTGCTGTCTGG
 AAAAACCCAAAGGTCTTTGACCCCTGAGGTCTCTCAGGAGAATTCTGATCAGAGACACCCCTATGCCT
 ACTTACCATTCTCAGCTGGATCAAGGAAGTGCATTGGGCAGGAGTTTGCATGATTGAGTTAAAGGTAAC
 CATTGCCCTTATTCTGCTCCACTTCAGAGTGACTCCAGACCCACCAGGCCTTCTACTTTCCCAACCAT
 TTTATCTCAAGCCCAAGAATGGGATGTATTTGCACCTGAAGAACTCTCTGAATGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207030 representing NM_178033
 Red=Cloning site Green=Tags(s)

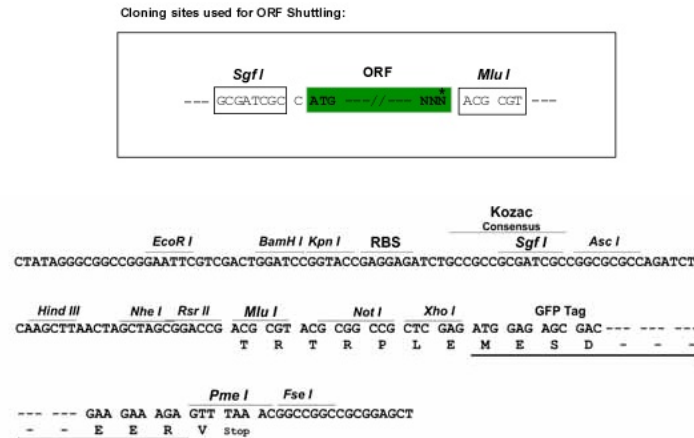
MEFSWLETRWARPFYLAFFVFLALGLLQAIKLYLRRQRLRLRPFAPPTHWFLGHQKFIQDDNMEKLE
 EIEKYPRAPFWIGPFQAFCCIYDPDYAKTLLSRDPKSQYLQKFSPLLKGGLAALDGPKWQHRRL
 TPGFHFNLKAYIEVMAHSVKMMLDKWEKICSTQDTSVEVYEHINSMSLDIIMKCAFSKETNCQTNSTHD
 PYAKAIFELSKIIIFHRLYSLLYHSDIIFKLSPQGYRFQKLSRVLNQYTDIIQERKSLQAGVKQDNTPK
 RKYQDFLDIVLSAKDESGSSFSDIDVHSEVSTFLLAGHDTLAASISWILYCLALNPEHQERCREEVRGIL
 GDGSSITWDQLGEMSYTMCIKETCRLIPAVPSISRDLKPLTFPDGCTLPAGITVVL SIWGLHNPVAVW
 KNPKVFDPLRFSQENSDQRHPYAYLPFSAGSRNCIGQEFAMIELKVITIALILLHFRVTPDPTPLTFPNH
 FILKPKNGMYLHLKKLSEC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_178033

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178033.2](#)

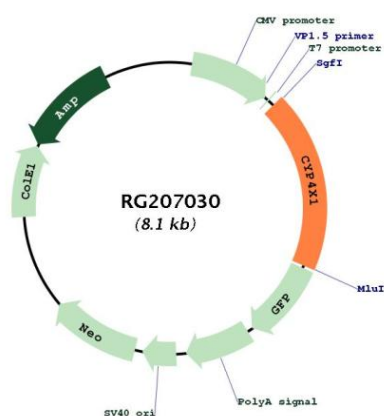
RefSeq Size: 2382 bp

RefSeq ORF: 1530 bp

Locus ID: 260293

UniProt ID:	<u>Q8N118</u>
Cytogenetics:	1
Protein Families:	Druggable Genome, P450, Transmembrane
Gene Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes and is located within a cluster of genes belonging to this superfamily on chromosome 1. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The expression pattern of a similar rat protein suggests that this protein may be involved in neurovascular function in the brain. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG207030