OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG204299

Cyb5r1 (NM_028057) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r1 (NM_028057) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyb5r1
Synonyms:	1500005G05Rik; B5R.1; C80155; Nqo3a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

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>MG204299 representing NM_028057
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGATCCAGCCGAGCCCGGTCTTGCTAGCCTCTCTGGGGGTGGGGCTGCTTACTCTGCTCGGCCTGG
CTCTGGGTACCTACTTGGTTCGAAGATCCCGCCGGCCGCAGGTTACTCTCCAGGACCCGGATGAGAAGTA
CCTGCTGCGATTGCTAGACAAGACGACAGTGAGCCACAACACCAGGAGGTTCCGCTTTGCCTTGCCCACC
GCCCACCACATTCTGGGGCTGCCTGTGGGTAAGCACGTCTACCTCTCTGCCCGAATTGATGGCAGTCTGG
TCATCAGGCCTTACACCCCTGTCACCAGTGATGAAGACCAAGGCTATGTAGATCTTGTCATCAAGGTTTA
TCTGAAAGGTGTGCACCCCAAATTTCCTGAAGGAGGGAAGATGTCTCAATACCTGGATAGCCTGAAGATT
GGGGATATGGTGGAGTTCCGGGGGCCGAGCGGGTTGCTCAGTTATGCTGGGAAAGGGAATTTTAATATTC
AGCCCAACAAAAAATCTCCACCTGAACTGCGAGTGGCGAAGAAATTGGGAATGATTGCTGGTGGGACAGG
AATCACCCCAATGCTGCAGCTGATCCGGGCCATCTTGAAAGTCCCTGAAGATCCAACCCAGTGCTTTCTG
CTTTTTGCCAACCAGACTGAAAGGGATATAATCCTGCGGGAGGACCTAGAGGAACTTCAGGCCCAGTATC
CTAATCGCTTTAAGCTCTGGTTCACTCTGGACTCTCCTCCAGAAGACTGGACCTACAGCAAGGGCTTTGT
TACGGCTGACATGATCCAGGAGCACCTGCCTGCCCCAGCAGAGGATGTGCTGCTGCTGCTCTGTGGACCA
CCACCCATGGTGCAGCTGGCCTGCCACCCTAACTTGGATAAGCTGGGCTATTCACAAAAGATGCGATTCA
CCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

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Protein Sequence:

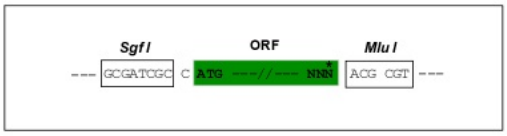
```
>MG204299 representing NM_028057
Red=Cloning site Green=Tags(s)

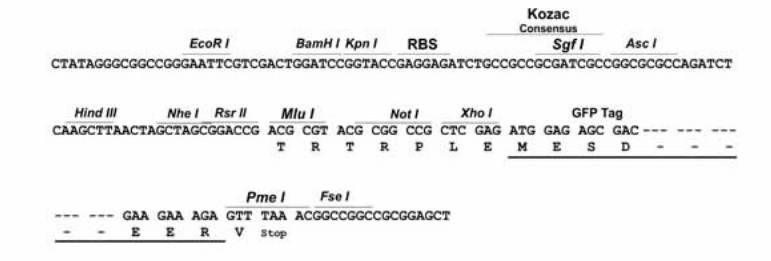
MGIQPSPVLLASLGVGLLTLLGLALGTYLVRRSRRPQVTLQDPDEKYLLRLLDKTTVSHNTRRFRFALPT
AHHILGLPVGKHVYLSARIDGSLVIRPYTPVTSDEDQGYVDLVIKVYLKGVHPKFPEGGKMSQYLDSLKI
GDMVEFRGPSGLLSYAGKGNFNIQPNKKSPPELRVAKKLGMIAGGTGITPMLQLIRAILKVPEDPTQCFL
LFANQTERDIILREDLEELQAQYPNRFKLWFTLDSPPEDWTYSKGFVTADMIQEHLPAPAEDVLLLLCGP
PPMVQLACHPNLDKLGYSQKMRFTY

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_028057

ORF Size: 915 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).

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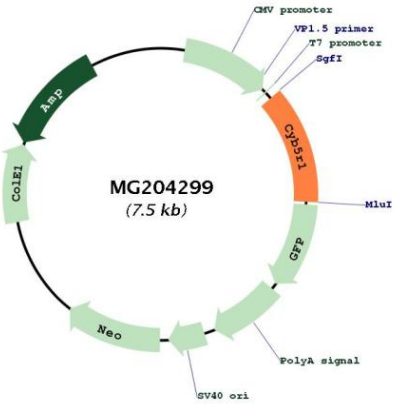
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_028057.3
RefSeq Size:	1627 bp
RefSeq ORF:	918 bp
Locus ID:	72017
UniProt ID:	Q9DB73
Cytogenetics:	1 E4
Gene Summary:	NADH-cytochrome b5 reductases are involved in desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204299

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