

Product datasheet for **MG204189**

Cyb5r3 (NM_029787) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r3 (NM_029787) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyb5r3
Synonyms:	0610016L08Rik; 2500002N19Rik; C85115; Dia-1; Dia1; WU:AL591952.1-001; WU:AL591952.1-002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204189 representing NM_029787 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGCCAGCTGAGCACGTTGAGCCACGTGGTGTCTCGCCCGTCTGGTTCATCTACAGTCTCTTCA
TGAAGCTGTTTCAGCGCTCCACACCGGCCATCACCTCGAGAACCCCGACATCAAGTACCCTCTGAGGCT
CATCGACAAGGAGGTCATCAGTCTGACACTCGGCGCTCCGATTTGCCCTCCCTTCACCCAGCACATC
CTGGGCCCTTCTATTGGCCAACACATCTACCTCTCGACTAGGATCGATGGCAACTGGTCATTGGCCCT
ACACCCCTGTGTCGAGCGATGATGACAAGGCTTTGTGGACTTGGTGGTCAAGGTTTACTTCAAGGACAC
CCATCCCAAGTTTCCAGCTGGAGGAAAATGTCTCAGTACCTGGAAAACATGAAGATTGGAGACACCATT
GAATTCGGGGTCCCAATGGGCTACTGGTCTACCAGGGCAAAGGGAAGTTTGCCATCCGTGCAGACAAGA
AGTCCAACCCGTTGTCAGGACGGTGAAGTCTGTAGGCATGATTGCAGGAGGGACAGGCATCACCCCAAT
GCTGCAGGTGATCCGAGCCGTCCTGAAGGACCCAAACGACCACACCGTGTGCTATCTGCTCTTTGCCAAC
CAGTCCGAGAAAGATATCCTGTTGCGGCCTGAGCTGGAGGAAGTGGAAACGAACATTCTGCTCGCTTCA
AGCTCTGGTACACAGTGGACAAAGCCCCTGATGCCTGGGACTATAGCCAGGGCTTCGTGAATGAGGAGAT
GATCAGGGACCACCTTCCAACCTCTGGGAGGAGCCGCTGATACTGATGTGTGGACCCCCACCAATGATC
CAGTTTGCTGTTTGCCAAACCTGGAGCGTGTGGCCATCCCAAGGAGCGATGCTTACACCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204189 representing NM_029787
 Red=Cloning site Green=Tags(s)

MGAQLSTLSHVVLSPVWFIYSLFMKLFQRSTPAITLENPDIKYPLRLIDKEVISPDTRFRFALPSPQHI
 LGLPIGQHIYLSTRIDGNLIRPYTPVSSDDDKGFVDLVVKVYFKDTHPKFPAGGKMSQYLENMKIGDTI
 EFRGPNGLLVYQKGKFAIRADKKSNPVRTVKSVMGIAGGTGITPMLQVIRAVLKDPNDHTVCYLLFAN
 QSEKDILLRPELEELRNEHSARFKLWYTVDKAPDAWDYSQGFVNEEMIRDHLPTPGEEPLILMCGPPPMI
 QFACLPLNERVGHPKERCFTF

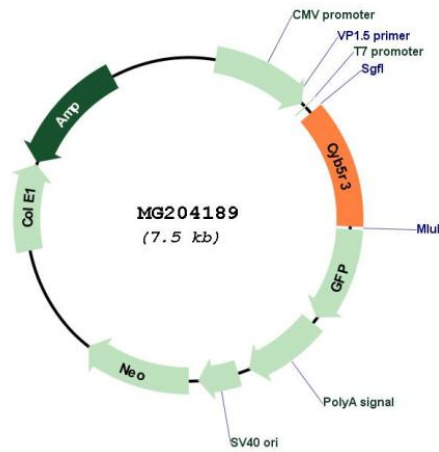
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_029787

ORF Size:	903 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:	<ol style="list-style-type: none">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_029787.3
RefSeq Size:	2066 bp
RefSeq ORF:	906 bp
Locus ID:	109754
UniProt ID:	Q9DCN2
Cytogenetics:	15 39.4 cM
Gene Summary:	Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction.[UniProtKB/Swiss-Prot Function]