

Product datasheet for **MG216118**

Cyb5r4 (NM_024195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r4 (NM_024195) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyb5r4
Synonyms:	2810034J18Rik; B5+B5R; b5/b5r; b5b5r; C79736; Cb5cb5r; Ncb5or
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216118 representing NM_024195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAACGTCCTTCCAGGCTTCCCGGCCCCCGGCTCCAGCAGCGCGTCTCTCCAGGGGCGCA
 GCAAGGTACCTTTAAAACAAGGCAGGAGTCTTATGGATTGGATCCGACTGACCAAGAGTGAAAGGACTT
 AACAGGATTGAAGGGCGGGTTAATTGAAGTAAGTGAAGAAGAGCTTAAGAAGCACAAAGAAAGAGAT
 TGTTGGATATGCATAAGAGGGTTTGTACAACGTCAGCCCTTATATGGAGTACCATCCGGTGGGGAGG
 ATGAACTCATGAGAGCCGAGGACCGATGGAACAGATCTTTTAAATGAGGTTTCATCGTTGGGTCATTA
 TGAATCCATGCTGAAAGAATGCCTGGTTGGCAGGATGGCTGTGAAGCCTGCTGTTCCAAAAGACTGTCAT
 GAAGGAAAGAGAGTCTTAAATGGCATGCTTCCCAAGGACCAATGTCAGACACACTGCCAGGGATGTGA
 CAGACACACTGCCAGGGAAGACCTCAGTTCTCCAAGCTATGATTGGTTCAAAACAGAGTCTTCAGTCAC
 CATTGTTGTATACACAAACAAAAGAATATCAGTTTAGACTCAGTAATCGTTGACCTCCAGGATGACTCC
 TTGAGAGCAGAAGCAGTCATCAAGGATCACTCTTACCTTGATGTTGGGCTAAGCCATGAAGTTCAAG
 AAAATTTTTCTGTACGGTTATTGAAAATGTTGAAAAATAGAGATTGCTCTACAAAAGAAAGAAAGTGT
 TTCTTGGCAATGCTTGGTGATCACCTGGAGAAACATGATTCTTTCATTCCAAAGAAAGATACAGGCTTG
 TACTACAGACGGTGCCAGTTAATATCTAAGGAAGATGTCACCTCATGACACGAGACTTTTCTGTCTGATGC
 TGCTCCAAGTACTCACCTTCAGGTGCCAGTTGGACAACATGTTACCTCAAGCTCAGTGTACAGGTGC
 AGAAATAGTAAAGCCATATACCCCGTGTCTGATTCTTACTCTCAGATTTTAAAGAACCAGTCTTTCC
 CCAAATAAATACATCTGCTTTTTGATCAAATCTATCTGCTGGACTCTCACACCAGAGCTTGATCGTC
 TTCAGATTGGAGATTTTATTCTGTAAGCGGACTGAAGCGGATTTTAAAGTATCCAAATCCAGGAAGT
 AGAAGATCTCTTTCTATTGGCAGCCGGAACAGGATTCACACCAATGGTCACTGTACTGAATTATGCTTTG
 TCTCACATGTCCAGTCTCAGGAAGGTGAAGTTGATGTTCTTCAATAAAACAGAGGACGATATAATTTGGA
 GATGTCAGCTAGAGAAGTTGGCATTAAAGAGAAAAAAGATTTGATGTTGAATTTGTTCTCTCGGCACCTTC
 TCCAGAATGGAATGGCAAACAGGACACATATCACGAGCTCTTCTCTGAAATTTTGCAAAAGAAGTTCA
 GAAAACCTAGGGCCTTCTTTGCATCTGCGGACCAACACCATTACTGACGAGGGGATAAAGTTGCTGC
 ATGATCTTAACCTTTCTGATGATGAGATTCACGGATTCACCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216118 representing NM_024195
 Red=Cloning site Green=Tags(s)

MLNVPSQAFAPAGSQQRVSSQGRSKVPLKQGRSLMDWIRLTKSGKDLTGLKGLIEVTEEELKHNKED
 CWICIRGFVYINVPYMEYHPGGEDELMRAAGADGTDLFNEVHRWVNYESMLKECLVGRMAVKPAVPKDCH
 EGKRVLNGMLPKSQMSDTLPRDVTDLPRDLSSPSYDWFQTESSVTIVVYTKQKNI SLDSVIVDLQDDS
 LRAEAVIKDHSYL VHVGLSHEVQENFSVRVIENVGKIEIVLQKKEVSWQCLGDHLEKHDSFIPKDTGL
 YYRRCQLISKEDVTHDTRLFCLMLPPSTHLQVPVGHVYLLKLSVTGAEIVKPYTPVSDSLLSDFKEPVL
 PNKYICFLIKIYPAGLFTPELDRLQIGDFISVSGPEGDFKVSLLQVEDLFLAAGTGFTPMVTLNLYAL
 SHMSSLRKVKLMFFNKTEDDIWRCQLEKALREKRFDFEVL SAPSPEWNGKQGHISRALLSEFLQRSS
 ENSRAFLCICGTPFTDEGIRLLHDLNFSDEIHGFTA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_024195
ORF Size:	1584 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_024195.2 , NP_077157.2
RefSeq Size:	2653 bp
RefSeq ORF:	1587 bp
Locus ID:	266690
UniProt ID:	Q3TDX8
Cytogenetics:	9 E3.1
Gene Summary:	NADH-cytochrome b5 reductase involved in endoplasmic reticulum stress response pathway. Plays a critical role in protecting pancreatic beta-cells against oxidant stress, possibly by protecting the cell from excess buildup of reactive oxygen species (ROS).[UniProtKB/Swiss-Prot Function]