

Product datasheet for **RG205203**

CYB5R4 (NM_016230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CYB5R4
Synonyms:	cb5/cb5R; dJ676J13.1; NCB5OR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205203 representing NM_016230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGAACGTCCCTTCCAGTCTTTCCCGCCCCAGGTCGCAGCAGCGTGTGCGCTCCGGGGGCGTA
 GCAAGGTACCTTTAAACAGGGCAGAAGCCTTATGGATTGGATTGCACTGACCAAAAGTGGAAAGGATCT
 AACGGGATTAAGAGGAGTTAATGAAGTAAGTGAAGAACTTAAGAAACACAACAAAAAGATGAT
 TGTTGGATATGCATAAGAGGTTTCGTTTATAATGTGAGCCCTTATATGGAGTATCATCTGGTGGAGAAG
 ATGAACCTAATGAGAGCAGCAGGATCAGATGGTACTGAACTTTTGTGATCAGGTTTCGTTGGGTCAATTA
 TGAATCCATGCTGAAAGAATGCCTGGTTGGCAGAATGGCCATTAAACCTGCTGTTCTGAAAGACTATCGT
 GAGGAGGAAAAAGTCTTAAATGGCATGCTTCCCAAGAGCCAAGTGACAGATACACTTGCCAAAGAAG
 GTCCTAGTTATCCAAGCTATGATTGGTTCCAAACAGACTCTTATGTCACCATTCGCATATATACTAAACA
 GAAGGATATCAATTTAGACTCAATAATAGTTGATCATCAGAATGATTCCTTTAGAGCAGAAACAATTATT
 AAGGATTGTTTATATCTTATACATATTGGGCTAAGCCATGAGGTTTACGGAAGATTTTCTGTGCGGGTTG
 TTGAGAGTGTGGGAAAAATAGAGATTGTTCTACAAAAAAGAGAATACTTCTTGGGACTTTCTTGCCCA
 TCCCTGAAGAATCATAATTCACCTATTCCAAGGAAAGATACAGGTTTGTACTACAGAAAGTGCCAGTTA
 ATTTCCAAGGAAGATGTTACTCATGATACGAGGCTTTCTGTTTGTGCTGCCACCAAGCACTCATCTTC
 AAGTGCCCATTTGGGCAACATGTTTACCTCAAGCTACCTATTACAGGTACAGAAATAGTAAAGCCATATAC
 ACCTGTATCTGGTTCCTTACTCTCAGAGTTCAAGGAACAGTTCTTCCCAACAATAAATACATCTACTTT
 TTGATAAAATCTATCCCACTGGACTCTTACACCAGAGCTTGATCGTCTTCTGATTGGAGATTTTGTGTT
 CTGTAAGCAGTCTGAGGGCAATTTAAATATCCAAGTTCCAAGAATTAGAAGATCTCTTTTGTGTC
 AGCTGGAACAGGCTTCACACCAATGGTTAAATACTGAATTATGCTTTGACTGATATACCCAGTCTCAGG
 AAAGTGAAGCTGATGTTCTTCAATAAAACAGAAGATGATATAATTTGGAGAAGCCAATTGGAGAATTAG
 CATTTAAAGATAAAAGACTGGATGTTGAATTTGTTCTCTCAGCACCTATTTCTGAATGGAATGGCAAACA
 GGGACATATTTACCAGCTCTTCTTCTGAATTTTGAAGAAATTTGGACAAATCCAAAGTCTCTGTC
 TGCATTTGTGGACCAAGTCCATTACAGAACAGGAGTAAGGTTGCTGCATGATCTCACTTTTCCAAAA
 ATGAGATCCATAGTTTACAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205203 representing NM_016230
 Red=Cloning site Green=Tags(s)

MLNVPSQSFAPRSPQRVASGGRSKVPLKQGRSLMDWIRLTKSGKDLTGLKGRLIEVTEELKKHNKKDD
 CWICIRGFVYNVSPYMEYHPGGEDELMRAAGSDGTELFQVHRWVNYESMLKECLVGRMAIKPAVLKDYR
 EEEKKVLNGLPKSQVTDTLAKEGPSYPSYDFQTDLSLVTIAIYTKQKDINLDSIIVDHQNSFRFETII
 KDCLYLIIHIGLSHEVQEDFSVRVSVSGKIEIVLQKKENTSWDFLGHPLKNHNSLIPRKDTGLYYRKQCL
 ISKEDVTHDTRLFCLMLPPSTHLQVPIGQHVYLKLPITGTEIVKPYTPVSGSLLSEFKEPVLPNNKYIYF
 LIKIYPTGLFTPELDRLQIGDFVSVSPEGNFKISKFQLEDLFLAAGTGFTPMVKILNLYALTDIPSLR
 KYKLMFFNKTEDDIWRSQLEKLAFKDKRLDVEFVLSAPISEWNGKQGHISPELLSEFLKRNLDKSKVLV
 CICGPVPFTEQGVRLHDLNFSKNEIHSFTA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016230

ORF Size: 1563 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.

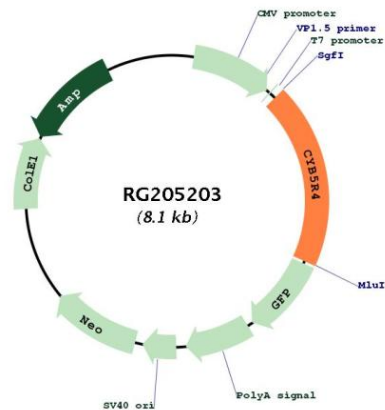
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016230.4](#)

RefSeq Size: 2259 bp

RefSeq ORF:	1566 bp
Locus ID:	51167
UniProt ID:	Q7LIT6
Cytogenetics:	6q14.2
Domains:	heme_1, NAD_binding_1, FAD_binding_6, CS
Protein Families:	Druggable Genome
Gene Summary:	NCB5OR is a flavohemoprotein that contains functional domains found in both cytochrome b5 (CYB5A; MIM 613218) and CYB5 reductase (CYB5R3; MIM 613213) (Zhu et al, 1999 [PubMed 10611283]).[supplied by OMIM, Jan 2010]

Product images:



Circular map for RG205203