

Product datasheet for **RG232023**

CYBC1 (NM_001193653) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CYBC1 (NM_001193653) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CYBC1
Synonyms: C17orf62; CGD5; Eros
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232023 representing NM_001193653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGCTCCATCTGAAGAGGGCTCCAGGCATCCGGTCTT
 GGTCCCTGCTGGTTGGAATCTTGTGCGATTGGCTGGCTGCTGCCTACTACAGCGGAGATAGCCTGGGCTG
 GAAGCTCTTCTACGTACAGGCTGCCTGTTTGTGGCTGTGCAGAAGCTGGAGGACTGGGAGGAAGCCATC
 TTCGACAAGACACAGGGAAGGTTGTTTGAAGACGTTTCAGCCTCTACAAGAAGCTGCTGACTCTTTTCA
 GAGCTGGCCACGACCAGGTGGTGGTCTGCTCCATGATGTCCGTGATGTGAGCGTGGAGGAGGAGAAGGT
 CCGGTACTTCGGAAAGGCTACATGGTGGTGTCCGGCTTGCAGCGGCTTCTCCACCCCTCACGCAG
 AGTGACGTCATGGCCACCGCAGTGATGTGGAAGCCATCGCCAAGCTCATCACCAGCTTCTGGAGCTGC
 ACTGCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGCCGGTGACCCTGCAAGCCAGAG
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232023 representing NM_001193653
 Red=Cloning site Green=Tags(s)

MYLQVETRTSSRLHLKRAPGIRSWLLVGILSIGLAAAYSGDSLWKLFFVVTGCLFVAVQNLWDWEEAI
 FDKSTGKVVLTFTSLYKLLTLFRAGHDQVVLLHDVDRDVSVEEEKVRYFGKGYMVLRLATGFSHPLTQ
 SAVMGHRSDVEIAKLITSFLELHCLESPTELSQQSSDSEAGDPASQS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

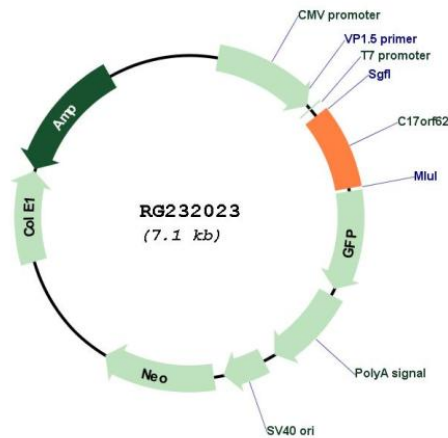


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001193653

ORF Size: 561 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.

RefSeq: [NM_001193653.2](#)

RefSeq Size: 2437 bp

RefSeq ORF: 564 bp

Locus ID: 79415

UniProt ID: [Q9BQA9](#)

Cytogenetics: 17q25.3

Protein Families: Transmembrane

Gene Summary: Necessary for a stable expression of the CYBA and CYBB subunits of the cytochrome b-245 hetrodimer. Controls the phagocyte respiratory burst and is essential for innate immunity. [UniProtKB/Swiss-Prot Function]