

Product datasheet for RC232023

CYBC1 (NM_001193653) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CYBC1 (NM_001193653) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CYBC1
Synonyms: C17orf62; CGD5; Eros
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC232023 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGCTCCATCTGAAGAGGGCTCCAGGCATCCGGTCTT
 GGTCCCTGCTGGTTGGAATCTTGTGCGATTGGCTGGCTGCTGCCTACTACAGCGGAGATAGCCTGGGCTG
 GAAGCTCTTCTACGTACAGGCTGCCTGTTTGTGGCTGTGCAGAACTGGAGGACTGGGAGGAAGCCATC
 TTCGACAAGACACAGGGAAGGTTGTTTGAAGACGTTTCAGCCTCTACAAGAAGCTGCTGACTCTTTTCA
 GAGCTGGCCACGACCAGGTGGTGGTCTGCTCCATGATGTCCGTGATGTGAGCGTGGAGGAGGAGAAGGT
 CCGGTACTTCGGGAAAGGCTACATGGTGGTGTCCGGCTTGCAGCGGGCTTCTCCACCCCTCACGCAG
 AGTGACGTGATGGCCACCGCAGTGATGTGGAAGCCATCGCCAAGCTCATCACCAGCTTCTGGAGCTGC
 ACTGCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGCCGGTGACCCTGCAAGCCAGAG
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232023 protein sequence
 Red=Cloning site Green=Tags(s)

MYLQVETRTSSRLHLKRAPGIRSWLLVGILSIGLAAAYSGDSLWKLFFVVTGCLFVAVQNLEDWEEAI
 FDKSTGKVVLLKTFSLYKLLTLFRAGHDQVVLLHDVRDVSVEEEKVRYFGKGYMVLRLATGFSHPLTQ
 SAVMGHRSDVEIAKLI TSFLELHCLESPTELSQQSSDSEAGDPASQS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6408_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

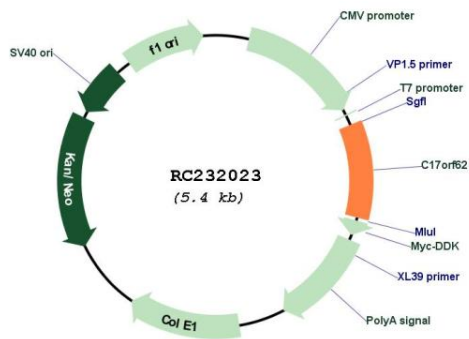
RefSeq Size: 2437 bp

RefSeq ORF: 564 bp

Locus ID: 79415

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|-------------------|---|
| UniProt ID: | <u>Q9BQA9</u> |
| Cytogenetics: | 17q25.3 |
| Protein Families: | Transmembrane |
| MW: | 20.8 kDa |
| Gene Summary: | Necessary for a stable expression of the CYBA and CYBB subunits of the cytochrome b-245 heterodimer. Controls the phagocyte respiratory burst and is essential for innate immunity. [UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for RC232023