

## Product datasheet for **RC232025**

### **CYBC1 (NM\_001193655) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CYBC1 (NM\_001193655) 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:** >RC232025 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACCTGCAGGTGGAGACCCGCACCAGCTCCCGCTCCATCTGAAGAGGGCTCCAGGCATCCGGTCTT  
GGTCCCTGCTGGTTGGAATCTTGTGCGATTGGCTGGCTGCTGCCTACTACAGCGGAGATAGCCTGGGCTG  
GAAGCTCTTCTACGTACAGGCTGCCTGTTTGTGGCTGTGCAGAAGCTGGAGGACTGGGAGGAAGCCATC  
TTCGACAAGACACAGGAAGGTTGTTTGAAGACGTTTCAGCCTCTACAAGAAGCTGCTGACTCTTTTCA  
GAGCTGGCCACGACCAGGTGGTGGTCTGCTCCATGATGTCCGTGATGTGAGCGTGGAGGAGGAGAAGGT  
CCGGTACTTCGGGAAAGGCTACATGGTGGTGTCCGGCTTGCAGCGGGCTTCTCCACCCCTCACGCAG  
AGTGACGTGATGGCCACCGCAGTGATGTGGAAGCCATCGCCAAGCTCATCACCAGCTTCTGGAGCTGC  
ACTGCCTTGAGAGCCCCACAGAGCTGTCTCAGAGCAGCGACAGTGAGCCGGTGACCCTGCAAGCCAGAG  
C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC232025 protein sequence  
**Red=Cloning site Green=Tags(s)**

MYLQVETRTSSRLHLKRAPGIRSWLLVGILSIGLAAAYYSGDSLWKLFFVVTGCLFVAVQNLEDWEEAI  
FDKSTGKVVLLKTFSLYKLLTLFRAGHDQVVLLHDVRDVSVEEEKVRYFGKGYMVVLRATGFSHPLTQ  
SAVMGHRSDVEIAKLTITSFLELHCLESPTELSQQSSDSEAGDPASQS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6408\\_d08.zip](https://cdn.origene.com/chromatograms/mk6408_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001193655

**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\\_001193655.1](#), [NP\\_001180584.1](#)

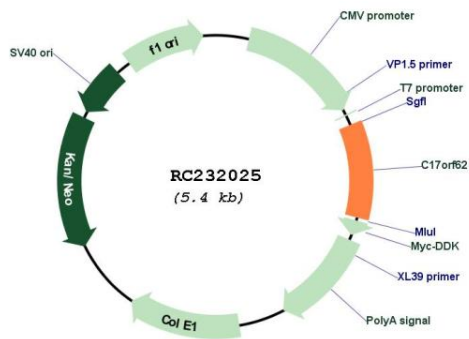
**RefSeq Size:** 2331 bp

**RefSeq ORF:** 564 bp

**Locus ID:** 79415

**UniProt ID:** Q9BQA9  
**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 RC232025