

Product datasheet for RC200706

CYBA (NM 000101) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CYBA (NM_000101) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: CYBA

Synonyms: CGD4; p22-PHOX

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC200706 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CATCCCGGTGACCGACGAGGTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200706 protein sequence

Red=Cloning site Green=Tags(s)

MGQIEWAMWANEQALASGLILITGGIVATAGRFTQWYFGAYSIVAGVFVCLLEYPRGKRKKGSTMERWGQ KYMTAVVKLFGPFTRNYYVRAVLHLLLSVPAGFLLATILGTACLAIASGIYLLAAVRGEQWTPIEPKPRE

RPQIGGTIKQPPSNPPPRPPAEARKKPSEEEAAAAAGGPPGGPQVNPIPVTDEVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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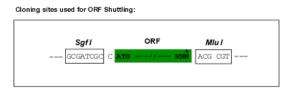
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com ORIGENE

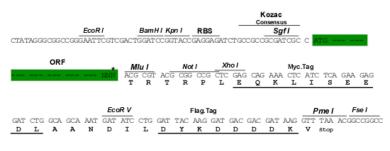
https://cdn.origene.com/chromatograms/mk6075 d01.zip **Chromatograms:**

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 000101

ORF Size: 585 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: <u>NM 000101.4</u>

 RefSeq Size:
 778 bp

 RefSeq ORF:
 588 bp

 Locus ID:
 1535

 UniProt ID:
 P13498

 Cytogenetics:
 16q24.2

Domains: cytochr_b558a

Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Leukocyte transendothelial migration

MW: 21 kDa

Gene Summary: Cytochrome b is comprised of a light chain (alpha) and a heavy chain (beta). This gene

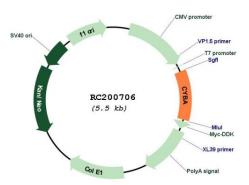
encodes the light, alpha subunit which has been proposed as a primary component of the microbicidal oxidase system of phagocytes. Mutations in this gene are associated with autosomal recessive chronic granulomatous disease (CGD), that is characterized by the failure

of activated phagocytes to generate superoxide, which is important for the microbicidal

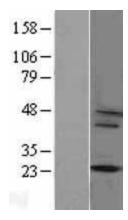
activity of these cells. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC200706



Western blot validation of overexpression lysate (Cat# [LY400029]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200706 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).