

## Product datasheet for MR201856

### Cyba (NM\_007806) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyba (NM\_007806) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cyba  
**Synonyms:** b558; nmf333; p22-phox; p22phox  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201856 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGGCAGATCGAGTGGGCCATGTGGGCCAACGAACAGGCGCTGGCGTCTGGCCTGATTCTCATCACTG  
 GGGGCATCGTGGCTACTGCTGGACGTTTTACACAGTGGTATTTTCGGCGCCTACTCTATCGCTGCAGGTGT  
 GCTCATCTGTCTGCTGGAGTATCCCCGGGAAAGAGGAAAAGGGGTCCACCATGGAGCGATGTGGACAG  
 AAGTACCTGACCTCTGTGGTGAAGCTTTTCGGGCCCTCACCAGGAATTACTACGTCCGGGCTGCCCTCC  
 ACTTCCTGTTGTGGTGCCTGCAGGCTTCTCCTGGCCACCATCCTGGGACCGTCTGCTTGCCATTGC  
 CAGTGTGATCTATCTGCTGGCAGCCATCCGAGGTGAGCAGTGGACTCCCATTGAGCCTAAACCAAGGAG  
 CGGCCACAGGTTGGAGGCACCATCAAGCAACCCTACCAACCCCCACCCCGGCCACCCGAGAGGTCC  
 GAAAGAAGCCGAGTGAGGGTGAAGAGGAGGCAGCCTCAGCTGGAGGACCCAGGTTAACCAATGCCAGT  
 GACAGATGAGGTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201856 protein sequence  
 Red=Cloning site Green=Tags(s)

MGQIEWAMWANEQALASGLILITGGIVATAGRFTQWYFGAYSIAAGVLI LLEYPGRKRRKKGSTMERCGQ  
 KYLTSVVKLFGPLTRNYYVRAALHFLLSVPAGFLLATILGTVCLAIASVIYLLAAIRGEQWPIEPKPK  
 RPQVGGTIKQPPTNPPRPPAEVRKKPSEEEEEASAGGPQVNPMPVTDEVV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_007806

ORF Size: 579 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\\_007806.3](#), [NP\\_031832.2](#)

RefSeq Size: 764 bp

RefSeq ORF: 579 bp

Locus ID: 13057

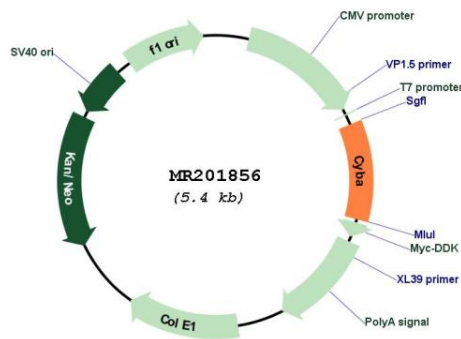
UniProt ID: [Q61462](#)

**Cytogenetics:** 8 E1

**MW:** 20.7 kDa

**Gene Summary:** Critical component of the membrane-bound oxidase of phagocytes that generates superoxide. Associates with NOX3 to form a functional NADPH oxidase constitutively generating superoxide.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201856