

Product datasheet for **MG201856**

Cyba (NM_007806) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyba (NM_007806) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cyba
Synonyms: b558; nmf333; p22-phox; p22phox
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201856 representing NM_007806
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCAGATCGAGTGGGCCATGTGGGCCAACGAACAGGCGCTGGCGTCTGGCCTGATTCTCATCACTG
 GGGGCATCGTGGCTACTGCTGGACGTTTACACAGTGGTATTTTCGGCGCCTACTCTATCGCTGCAGGTGT
 GCTCATCTGTCTGCTGGAGTATCCCCGGGAAAGAGGAAAAGGGGTCCACCATGGAGCGATGTGGACAG
 AAGTACCTGACCTCTGTGGTGAAGCTTTTCGGGCCCTCACCAGGAATTACTACGTCCGGGCTGCCCTCC
 ACTTCCTGTTGTGGTGCCTGCAGGCTTCTCCTGGCCACCATCTGGGACCGTCTGCTTGGCCATTGC
 CAGTGTGATCTATCTGCTGGCAGCCATCCGAGGTGAGCAGTGGACTCCCATTGAGCCTAAACCCAAGGAG
 CGGCCACAGGTTGGAGGCACCATCAAGCAACCCTACCAACCCCCACCCCGGCCACCCGAGAGGTCC
 GAAAGAAGCCGAGTGAGGGTGAAGAGGAGGCAGCCTCAGCTGGAGGACCCAGGTTAACCCAATGCCAGT
 GACAGATGAGGTCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201856 representing NM_007806
 Red=Cloning site Green=Tags(s)

MGQIEWAMWANEQALASGLILITGGIVATAGRFTQWYFGAYSIAAGVLI~~CLLE~~YPRGKRKKGSTMERCQ
 KYLTSVVKLFGPLTRNYYVRAALHFLLSVPAGFLLATILGTVCLAIASVIYLLAAIRGEQWTPIEPKPE
 RPQVGGTIKQPPTNPPRPPAEVRKKPSEGE~~EE~~AASAGGPQVNPMPVTDEVV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

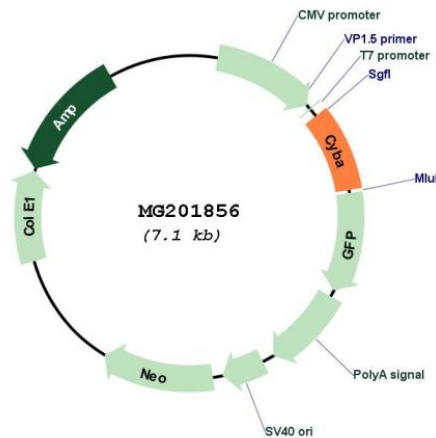


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Cloning Scheme:



Plasmid Map:



ACCN: NM_007806

ORF Size: 576 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: 742 bp

RefSeq ORF: 579 bp

Locus ID: 13057

UniProt ID: [Q61462](#)

Cytogenetics: 8 E1

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]