

Product datasheet for **MR228236**

Cyba (NM_001301284) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyba (NM_001301284) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cyba
Synonyms: b558; nmf333; p22-phox; p22phox
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228236 representing NM_001301284
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCAGATCGAGTGGGCCATGTGGGCCAACGAACAGGCGCTGGCGTCTGGCCTGATTCTCATCACTG
GGGCATCGTGGCTACTGCTGGACGTTTCACACAGTGGTATTTTCGGCGCCTACTCTATCGCTGCAGGTGT
GCTCATCTGTCTGCTGGAGTATCCCGGGGAAAGAGGAAAAAGGGGTCCACCATGGAGCGATGGTTGTCG
GTGCTGCAGGCTTCTCCTGGCCACCATCCTGGGACCGTCTGCTTGGCATTGCCAGTGTGATCTATC
TGCTGGCAGCCATCCGAGGTGAGCAGTGGACTCCATTGAGCCTAAACCAAGGAGCGGCCACAGGTTGG
AGGCACCATCAAGCAACCACCTACCAACCCCCACCCCGCCACCCGAGAGGTCCGAAAGAAGCCGAGT
GAGGGTGAAGAGGAGGCAGCCTCAGCTGGAGGACCCAGGTTAACCCAATGCCAGTGACAGATGAGGTCC
TG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228236 representing NM_001301284
Red=Cloning site Green=Tags(s)

MGQIEWAMWANEQALASGLILITGGIVATAGRFTQWYFGAYSIAAGVLIICLLEYPRGKRKKGSTMERWLS
VPAGFLLATILGTVCLAIASVIYLLAAIRGEQWTPIEPKPKERPQVGGTIKQPPTNPPRPPAEVRKKPS
EGEEEEASAGGPQVNPMPVTDEVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

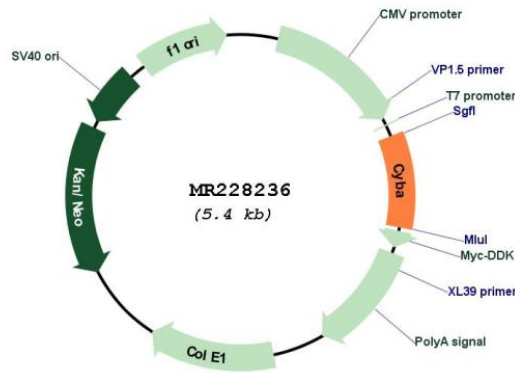
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001301284

ORF Size: 492 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:	<ol style="list-style-type: none">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:	<u>NM_001301284.1</u> , <u>NP_001288213.1</u>
RefSeq Size:	692 bp
RefSeq ORF:	495 bp
Locus ID:	13057
UniProt ID:	<u>Q61462</u>
Cytogenetics:	8 E1
MW:	18 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]