

## Product datasheet for **RR211378**

### Cyba (NM\_024160) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyba (NM\_024160) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cyba  
**Synonyms:** p22-phox; Phox  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211378 representing NM\_024160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCAGATCGAGTGGGCCATGTGGGCCAACGAACAGGCGCTGGCATCTGGCCTGATCCTCATCACAG  
 GGGGCATCGTGGCTACTCGGGACGCTTACGCAGTGGTACTTTGGTGTACTCTATTGTTGCAGGAGT  
 GCTCATCTGTCTGCTGGAGTACCCCGGGAAAGAGGAAAAGGGCTCCACCATGGAGCGGTGTGGACAG  
 AAGTACCTGACCGCTGTGGTGAAGCTGTTCGGGCCCTCACAGAAATTACTACGTCCGGGCTGTCTCC  
 ACTTACTGCTGTCCGTGCCTGCAGGCTTCTGCTGGCCACCATCCTGGGACCGTCTGCTTGGCCATTGC  
 CAGTGTGATCTACCTGCTGGCAGCCATCCGGGTGAGCAGTGGACTCCCATTGAGCCTAAACCAAGGAG  
 CGGCCGAGGTTGGAGGCACCATCAAGCAGCCACCTACCAACCCCCACCCCGGCCACCAGCGGAGGTCC  
 GCAAGAAGCCAAGTGAGGCCGAAGAGGAGGAGCAGCTCGGCAGGAGGACCCAGGTTAACCAATTCCAGT  
 GACAGATGAGGTCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211378 representing NM\_024160  
 Red=Cloning site Green=Tags(s)

MGQIEWAMWANEQALASGLILITGGIVATAGRFTQWYFGAYSIVAGVLIICLLEYPRGKRKKGSTMERCQG  
 KYLTAVVKLFGPLTRNYVRAVLHLLLSPAGFLLATILGTVCLAIASVIYLLAAIRGEQWTPIEPKPKE  
 RPQVGGTIKQPPTNPPRPPAEVRKKPSEAEAEASAGGPQVNPVPTDEVV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

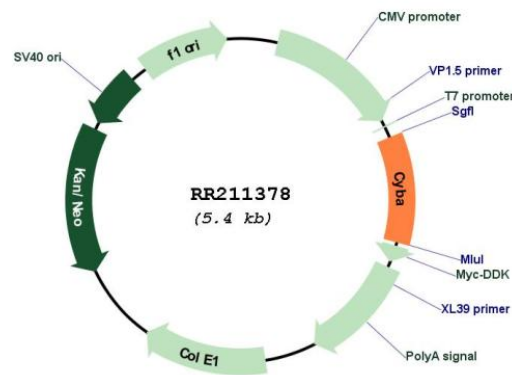


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_024160

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\\_024160.1](#), [NP\\_077074.1](#)

**RefSeq Size:** 709 bp

**RefSeq ORF:** 579 bp

**Locus ID:** 79129

**UniProt ID:** [Q62737](#)

**Cytogenetics:** 19q12

**MW:** 20.8 kDa

**Gene Summary:** alpha subunit of cytochrome b558, a component of NAD(P)H oxidase, may play a role in production of reactive oxygen species in endothelial cells [RGD, Feb 2006]