

## Product datasheet for **MC204867**

### **Cybb (NM\_007807) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cybb (NM_007807) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cybb
Synonyms:	C88302; Cgd; CGD91-phox; Cyd; gp91-1; gp91
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC071229  
 GGCAGAACCAACACTTAACCTTTGCTAACATGGGGAACCTGGGCTGTGAATGAAGGACTCTCCATCTTTGT  
 CATTCTGGTGTGGTTGGGGCTGAATGTCTTCTCTTTATCAACTACTACAAGTTTATGATGATGGGCT  
 AAGTATAATTATACTCGAAAACCTCTGGGTGAGCACTGGCTCTGGCCCGGGCACCTGCAGCCTGCCTGA  
 ATTTCAACTGTATGCTGATCCTGCTGCCAGTGTGTCGAAATCTGCTCTCCTTTCTCAGGGTTCCAGTGC  
 GTGTTGCTCGACAAGGATTCGAAGACAACCTGGACAGGAACCTCACTTTCCATAAGATGGTAGCTGGATG  
 ATAGCACTGCACACCGCCATCCACACAATTGCACATCTTCAACGTTGAGTGGTGTGAATGCCAGAG  
 TCGGGATTTCTGACCGGTATTCAATAGCTCTCTGACATCGGTGACAATGAGAACGAAGAGTATCTCAA  
 TTTTGCTAGAGAAAAAATCAAGAACCCTGAAGGGGCCTGTATGTGGCCGTGACTCGGTTGGCTGGGATC  
 ACAGGAATTGTATCACACTGTGTCTCATATTGATTATCACATCTCTACCAAAACCATTGCGAGGTCTT  
 ATTTTGAAGTGTCTGGTATACACACCATCTTTTGTGATCTTCTTCATCGGCCTTGCCATCCATGGAGC  
 TGAACGAATTGTACGTGGACAGACTGCGGAGAGTTTGAAGAGCATAATTTAGATATCTGTGCAGACAAA  
 ATCGAAGAATGGGAAAAAATAAAGGAGTGCCAGTACCAAAGTTCGCTGGAAACCCTCTATGACTTGGAA  
 AATGGATAGTGGTCTATGTTCTGTACCTTTGTGAGAGTTGGTTCGGTTTTGGCGATCTCAGCAAAA  
 GGTGGTCAACCAAGGTGGTCACCACCCTTTCAAACCATTGAGCTTCAGATGAAGAAGAAGGGATTCA  
 AAGATGGAGGTGGGACAGTACATTTTTGTCAAGTGCCCAAGGTATCCAAGTTAGAATGGCACCCATTCA  
 CACTGACCTCTGCTCCTGAGGAAGACTTTTTAGCATCCATATCCGATTGTGGGAGACTGGACGGAGGG  
 GCTATTCAATGCTTGTGGCTGTGATAAGCAGGAGTTCCAAGATGCCTGAAAACCTAAGATAGCAGTT  
 GATGGACCCTTTGGTACAGCCAGTGAAGATGTGTTGAGCTATGAGGTGGTGTAGTGGGAGCCGGGA  
 TTGGAGTACGCCCTTTGCTCCATTCTCAAGTCTGTCTGGTACAATAATTTGTGATAATGCCACCAGTCT  
 GAAACTCAAAAAGATCTACTTCTACTGGCTGTGCAGGGACACGCATGCCTTTGAGTGGTTGAGACCTG  
 CTGCAGTCTGGAGACCAGATGCAGGAAAGGAACAATGCCAATTCTCAGCTACAATATCTACCTTA  
 CTGGCTGGGATGAATCTCAGGCCAATCACTTTGCTGTGACACCATGATGAGGAGAAAAGATGACACAGG  
 CCTAAAACAGAAAGACTCTGTATGGACGGCCCAACTGGGATAACGAGTTCAAGACCATTGCAAGTGAACAC  
 CCTAACACCACAATAGGCGTTTTCTGTGTGGCCCTGAAGCCTTGCTGAAACTCTCAGTAAACAGAGCA  
 TCTCCAACCTCAGAATCCGGCCCGCTGGAGTCCACTTCATTTTCAACAAGGAAAACCTTAACTCCGCTC  
 TTTACCAGGAAACCAGTGTATGCTGCCAATGTCCAGTAATGCTGGTTGGTTGAGGAGAGAAGGAGG  
 AAAGGAAATCACAAATGACACAGGCCCTAAAAGGAATCCAAGATCCTTACTAGTCATCTGTCATATT  
 GCATGGAACCTCATGGTTTCAGAGCACTTTTTACATACATAGTTATGCATTGTTTACATTTCCCTTTGA  
 CATGCCAGAAGAGGTAAGGCAAAAGCATTTTCTGGGACTCTCTAGGATAAACAATAGGATCTCAAAT  
 GAGTTCCACACCTTCTTCCAATTCAGAAGTTGAAACCACACCTAAGCCATCTGACTCTGGGTGTGGTCA  
 CCTTTTACCTTTAATACCAGTTGTCTCAAGCCTCAGTTTTTACTATCCACCAACAAAAAAGCAAGT  
 CAAAGAAGAGCTCATCATTCTTAGCTGTTGTTTTCTTTAACCTTAGCATCATGCTAAAGGAAAACCTTT  
 TAAATAGAGGAGATAGTGTGCTGATGGTACTTAATACTTCTAAATGACAGTATCGGCACAGAAGTAT  
 ATTCCAGTTTTATCAGCACAACAGTTTAACTGGGTGAGAGATTATCCTAGTAAGAAATATTAGACTGAT  
 TGGAGTTAAAGTAGCACTCTACATTTACCATGGTGTGGCAGAATTGGTGTCAAGGTCAAGTTTATTGA  
 ATGAATGAATGAATGATTGAACAATAGATGCAAAACATTCAGAATATATCATAATGGAATGTATGGCCA  
 GAGACAGAATACCCTTCTGTTTCTTTTACACACCAAAGTATCCTGATTCCTGGGAGTAGAGAGAAAG  
 ATATGAACCAATAGGAGAGTCAAGGCCATTCTACTGGTATTCATCCAACCTGCTTTTGAAGGGAGGAGG  
 ATGAATTCAGAGACCTATTCTCCTATGATGATGGTGGCTAACACTTCTAGTTCCAGTCTGTAAAGTAAA  
 AAGAAGAACACATTTATTTACTGACAGAAATGATCTGCTCCAGCCAAACTTTGAACTGAATTCTAAGAAA  
 TGTATACATGATAATACATATCCTGCTTAGAATCCATTTCTTCTTTGGCTTAAATACCTATACAAATAGA  
 TCTTATGTGCATAGACAATAACTGTTTTTTTTTTTTTAAATTGCAGCATTTTTCATCACCCTAGTACCAG  
 CATCACCATCTTCTAAAATATAAATTTTGAAGAACTGTAATCCCCAAATAACTGGGTTAAGAGTAAATC  
 ACATCCGATATTTATGGGCATCCAGAAATGCAAGACAGAGTCTAGATGACTGCTAGACTAGTCACATGT  
 GAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_007807  
**Insert Size:** 1713 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC071229</a> , <a href="#">AAH71229</a>
<b>RefSeq Size:</b>	3098 bp
<b>RefSeq ORF:</b>	1713 bp
<b>Locus ID:</b>	13058
<b>UniProt ID:</b>	<a href="#">Q61093</a>
<b>Cytogenetics:</b>	X A1.1
<b>Gene Summary:</b>	<p>This gene encodes the heavy chain component of a heterodimeric transmembrane ion transporter composed of both a heavy and a light chain. This transporter mediates the transfer of electrons from nicotinamide adenine dinucleotide phosphate (NADPH) to oxygen to generate superoxide. This reaction is important in the innate immune response to pathogens. However, increased activity of the encoded protein also leads to the generation of reactive oxygen species that result in oxidative stress and can cause tissue damage. Conversely, loss of function of the related gene in human causes chronic granulomatous disease. Alternative splicing results in multiple transcript variants, although the full-length nature of some of these variants has not been determined. [provided by RefSeq, May 2013]</p>