

## Product datasheet for **RR202688**

### Cyb561d2 (NM\_001007753) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Cyb561d2 (NM\_001007753) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Cyb561d2  
 Synonyms: MGC95239  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR202688 representing NM\_001007753  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCTTTCTGTGGAGACGGAGTCGCACATCTACCGAGCTCTGCGCACTGCCTCCGGGGCTGCAGCCC  
 ACCTTGTGGCGTTAGGGTTTACCATCTTCGTGGCTGTGCTTGCCAGACCTGGCTCCAGTCTATTCTCCTG  
 GCATCCTGTTCTTATGTCTCTGGCTTTCTCCTTCCTGATGACTGAAGCACTCCTGATGTTCTCTCCTGAG  
 AGTTCACTGCTGCGTTCCCTCTCAAGGAAGGTCCGAGCACGCTGCCACTGGGTGCTACAGCTGCTAGCCC  
 TACTCTGTGCTCTGCTGGTCTAGGTCTCGTCATCCTCCACAAAGAGCAGCTTGGCAAAGCACACCTGGC  
 CACTCGACATGGGCAGGCAGGGCTGTTAGCTGTGCTGTGGGCAGGTCTGCAGTGTTCAGGGGGTGTGGGG  
 CTGCTCTACCCAAAGTTGCTGCCCGGTGGCCCTGGCAAACCTGAAACTCTACCATGCCACTTCTGGGT  
 TAGTGGGTACCTGCTGGGTAGTACCAGCCTCCTACTGGGCATGTGTTCACTCTGGTTCACCGCCAATGT  
 CACTGGTGGTGCCTGGTACCTGGCTGTGTTGTGCCCATCCTCACCAGTTTGGTAATCATGAACCAAGTG  
 AGCAATGCCTACTTATACCGCAAGAGGATCCAACCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202688 representing NM\_001007753  
 Red=Cloning site Green=Tags(s)

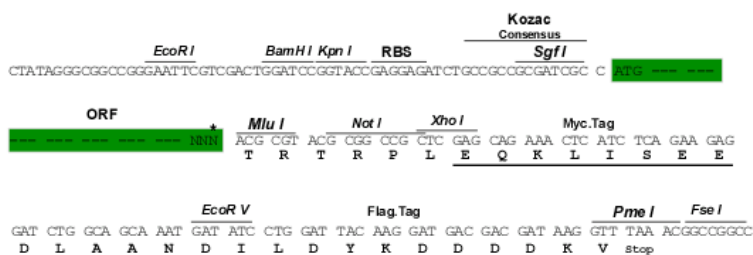
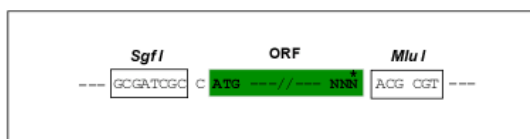
MALSVETESHYRALRTASGAAHLVALGFTIFVAVLARPGSSLSFWHPVLM SLAFSFLMTEALLMFSPE  
 SLLRLSLSRKVRARCHWVLQLLALLCALLGLGLVILHKEQLGKAHLATRHGOAGLLAVLWAGLQCSGGVG  
 LLYPKLLPRWPLAKLKYHATSGLVGYLLGSTSLLLGMCSLWFTANVTGGAWYLAVLCPIILTSLVIMNQV  
 SNAYLYRKRIQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

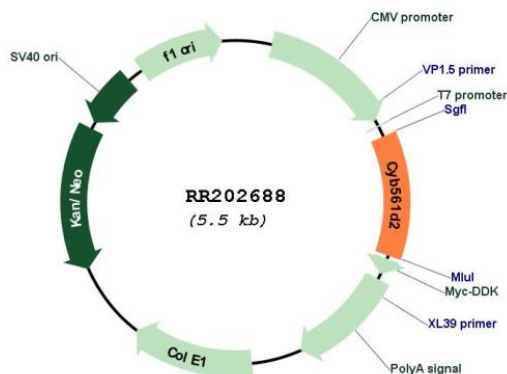
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_001007753

**ORF Size:** 666 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_001007753.1</a> , <a href="#">NP_001007754.1</a>
<b>RefSeq Size:</b>	1500 bp
<b>RefSeq ORF:</b>	669 bp
<b>Locus ID:</b>	363137
<b>UniProt ID:</b>	<a href="#">Q641Y1</a>
<b>Cytogenetics:</b>	8q32
<b>MW:</b>	24.1 kDa
<b>Gene Summary:</b>	Two-heme-containing cytochrome that catalyzes ascorbate-dependent trans-membrane ferric-chelate reduction.[UniProtKB/Swiss-Prot Function]