

## Product datasheet for RC208257

### CYB561D2 (NM\_007022) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | CYB561D2 (NM_007022) Human Tagged ORF Clone                       |
| Tag:                      | Myc-DDK   |
| Symbol:                   | CYB561D2  |
| Synonyms:                 | 101F6; TSP10; XXcos-LUCA11.4                                      |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC208257 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTTTCTGCGGAGACCGAGTCACACATCTACCGAGCTCTGCGTACTGCTTCTGGCGCTGCCGCC  
ACCTTGTGGCCCTGGGCTTACCATCTTTGTGGCTGTGCTTGCCAGGCCGGCTCCAGCCTGTTCTCCTG  
GCACCCGGTGCTTATGTCTTTGGCTTTCTCCTCCTGATGACCGAGGCACTACTGGTGTCTCCTGAG  
AGTTCGCTGCTGCACTCCCTCTCACGAAAGCCGAGCACGCTGCCACTGGGTGCTGCAGCTGCTGGCC  
TGCTGTGTGCACTGCTGGCCTCGCCTTGTATCCTCCACAAAGAGCAGCTTGGCAAAGCCACCTGGT  
TACGCGCATGGGCAGGCAGGGCTGCTGGCTGTGCTGTGGCAGGGCTGCAGTGCCTCAGGTGGGGTGGG  
CTGCTCTACCCCAAGCTGCTGCCCGATGGCCCTGGCGAAGCTCAAGCTATACCATGCTACTTCTGGG  
TGGTGGGTACCTGCTGGGTAGTGCCAGCCTCTTGTGGGCATGTGCTCACTCTGGTCACTGCCTCTGT  
CACTGGTGCAGCCTGGTACCTGGCTGATTATGCCCTGTCCTCACCAGCTTGGTCATTATGAACCAGGTG  
AGCAATGCCTACCTATACCGCAAGAGGATCCAACCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC208257 protein sequence  
Red=Cloning site Green=Tags(s)

MALSAETESHYRALRTASGAAHLVALGFTIFVAVLARPGSSLSFWHPVLMSLAFSFLMTEALLVFSPE  
 SLLHLSLRKGRARCHWVLQLLALLCALLGLGLVILHKEQLGKAHLVTRHGQAGLLAVLWAGLQCSGGVG  
 LLYPKLLPRWPLAKLKL YHATSGLVGYLLGSASLLLGMCSLWFTASVTGAAWYLAVLCPVLTSLVIMNQV  
 SNAYLYRKRIQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6350\\_h05.zip](https://cdn.origene.com/chromatograms/mk6350_h05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007022

**ORF Size:** 666 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\\_007022.5](#)

**RefSeq Size:** 1414 bp

**RefSeq ORF:** 669 bp

**Locus ID:** 11068

**UniProt ID:** [O14569](#)

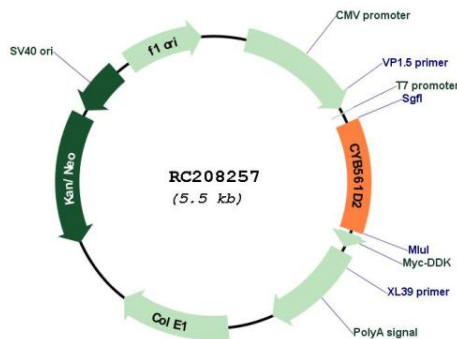
**Cytogenetics:** 3p21.31

**Protein Families:** Druggable Genome, Transmembrane

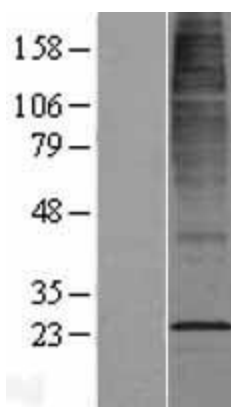
**MW:** 24 kDa

**Gene Summary:** Two-heme-containing cytochrome that catalyzes ascorbate-dependent trans-membrane ferric-chelate reduction.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC208257



Western blot validation of overexpression lysate (Cat# [LY416235]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208257 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).