

Product datasheet for **RC225175**

CYB561D1 (NM_001134402) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CYB561D1 (NM_001134402) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CYB561D1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225175 representing NM_001134402
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCCTGGAGTTCTGCCTCTGCATGGCTGAAGCCATCCTACTCTTCTCACCTGAACACTCCCTGT
TCTTCTTCTGCTCCGAAAAGCACGGATCCGGCTCCACTGGGCAGGCAGACCCAGCCATCCTCTGTGC
AGCTCTGGGCTGGGCTTCATCATCTCCAGCAGGACCCGAGTGCCTCATCTGGTGTCTGGCAC
AGCTGGGTGGGAGCCCTGACACTGCTGGCCACTGCTGCCAGGCACTGTGTGGGCTCTGCCTCCTTTGTC
CCCGGGCAGCCAGGGTCTCAAGGGTGGCTCGCCTCAAGCTCTACCATCTGACATGTGGACTGGTGGTCTA
CCTGATGGCTACAGTAACGGTGTCTTCTGGGCATGTACTCAGTATGGTTCCAGGCCAGATCAAAGGTGCG
GCCTGGTACCTGTGCCTGGCACTGCCCTCTATCCAGCCCTGGTATCATGCACCAGATTCCAGATCCT
ACTTGCCGAGGAAGAAAATGAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225175 representing NM_001134402
Red=Cloning site Green=Tags(s)

MQPLEFCLMAEAILLFSPEHSLFFFCSRKARIRLHWAGQTLAILCAALGLGFIISRTRSELPHLVSWH
SWVGALTLATAVQALCGLCLLCPRAARVSRVARLKL YHLTCGLVYLMATVTVLLGMYSVWFQAQIKGA
AWYLCLALPVYPALVIMHQISRSYLPRKMEM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

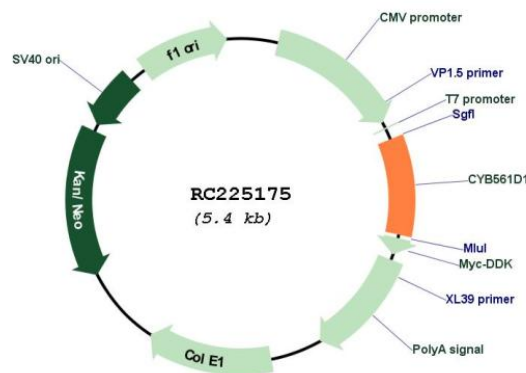


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001134402

ORF Size: 516 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_001134402.1, NP_001127874.1</u>
RefSeq ORF:	519 bp
Locus ID:	284613
UniProt ID:	<u>Q8N8Q1</u>
Cytogenetics:	1p13.3
Protein Families:	Transmembrane
MW:	19.1 kDa
Gene Summary:	Probable transmembrane reductase that may use ascorbate as an electron donor and transfer electrons across membranes to reduce monodehydro-L-ascorbate radical and iron cations Fe(3+) in another cellular compartment.[UniProtKB/Swiss-Prot Function]