

Product datasheet for **RG225175**

CYB561D1 (NM_001134402) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CYB561D1 (NM_001134402) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CYB561D1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225175 representing NM_001134402
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCCCTGGAGTTCTGCCTCTGCATGGCTGAAGCCATCCTACTCTTCTCACCTGAACACTCCCTGT
TCTTCTTCTGCTCCCGAAAAGCACGGATCCGGCTCCACTGGGCAGGGCAGACCCTAGCCATCCTCTGTGC
AGCTCTGGGCTGGGCTTCATCATCTCCAGCAGGACCCGAGTGAGCTGCCTCATCTGGTGTCTGGCAC
AGCTGGGTGGGAGCCCTGACACTGCTGGCACTGCTGTCCAGGCACTGTGTGGGCTCTGCCTCCTTTGTC
CCCGGCAGCCAGGGTCTCAAGGGTGGCTCGCCTCAAGCTCTACCATCTGACATGTGGACTGGTGGTCTA
CCTGATGGCTACAGTAACGGTCTTCTGGCATGTAAGTACTAGTATGGTCCAGGCCAGATCAAAGGTGCG
GCCTGGTACCTGTGCCTGGCACTGCCGCTCTATCCAGCCCTGGTATCATGCACCAGATTTCCAGATCCT
ACTTGCCGAGGAAGAAAATGAAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225175 representing NM_001134402
Red=Cloning site Green=Tags(s)
MQPLEFCLCMAEAILLFSPHSLFFFCRSRIRLHWAGQTLAILCAALGLGFIISSRTRSELPHLVSWH
SWVGAL TLLATAVQALCGLCLLCPRAARVSRVARLKLHYLTCGLVYLMATVTVLLGMYSVWFQAQIKGA
AWYLCLALPVYPALVIMHQISRSYLPKMEM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

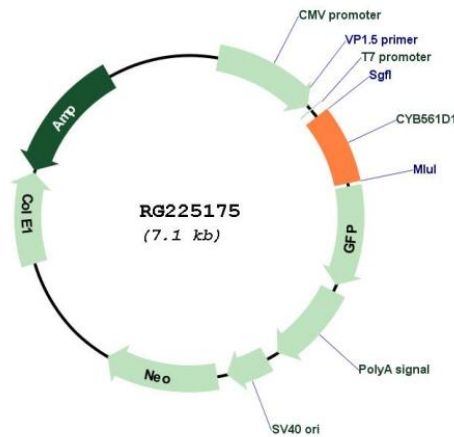


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Cloning Scheme:



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 Size:	4816 bp
RefSeq ORF:	519 bp
Locus ID:	284613
UniProt ID:	<u>Q8N8Q1</u>
Cytogenetics:	1p13.3
Protein Families:	Transmembrane
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]