

Product datasheet for **RG228196**

CYB561A3 (NM_001161454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB561A3 (NM_001161454) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYB561A3
Synonyms:	CYBASC3; LCYTB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228196 representing NM_001161454 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAAGAACTTTCTGACTCCTTCCTGTCTAGGGAGTGCGTGATCAGAATGGTGTCTGGACGGTTCT
ACTTGTCTGCCTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTCACTATCTACTGGATGCAGTA
CTGGCGTGGTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGGCACCCAGTGCTTATGGTTGCT
GGCATGGTGGTATTCTATGGAGGTGCGTCACTGGTGTACCGCCTGCCCCAGTCGTGGGTGGGCCCCAAAC
TGCCCTGGAACTCCTCCATGCAGCGCTGCACCTGATGGCCTTCGTCTCACTGTTGTGGGCTGGTTGC
TGTCTTTACGTTTCACAACCATGGAAGGACTGCCAACCTCTACTCCCTTCACAGCTGGCTGGGCATCACC
ACTGTCTTCTCTTCGCTGCCAGTGGTTCCTGGGCTTTGCTGTCTTCTCCTGCCTGGCGTCCATGT
GGCTGCGCAGCCTCCTAAACCTATCCACGTCTTTTTGGAGCCGCCATCCTCTCTGTCCATCGCATC
CGTCATTTGCGGCATTAATGAGAAGCTTTCTTCAGTTTGAAAAACACCACAGGCCATACCACAGCCTG
CCCAGTGAGGCGGTCTTTGCCAACAGCACCAGGATGCTGGTGGTGGCCTTTGGGCTGCTGGTGTCTACA
TCCTTCTGGCTTCATCTTGAAGCGCCAGAGCCGGGGATCCTGACCGACAGACGCCCTGCTGCATGA
TGGGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

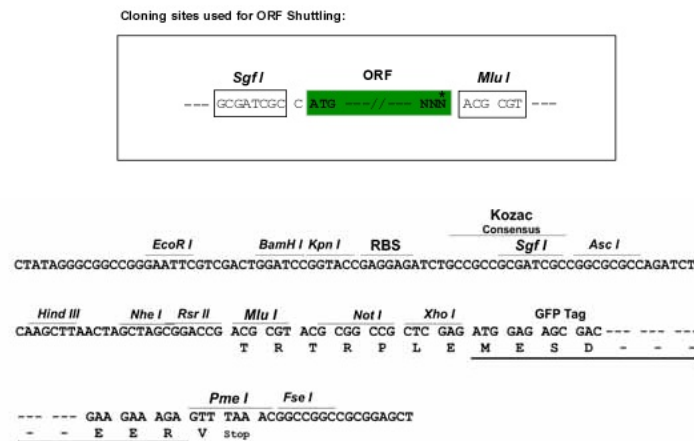
Protein Sequence: >RG228196 representing NM_001161454
Red=Cloning site Green=Tags(s)

MGKNFSDSFLSRECVIRMVSGRFYLSCLLLGSLGSMCILFTIYWMQYWRGGFAWNGSIYMFNWHVPLMVA
GMVVFYGGASLVYRLPQSWVGPKLPWKLHAAHLMAFVLTVVGLVAVFTFHHNGRTANLYSLHSWLGIT
TVFLFACQWFLGFAVLLPWASMWLRSLKPIHVFFGAAILSLSIASVISGINEKLFFSLKNTRPYHSL
PSEAVFANSTGMLVVAFLGLLVYILLASSWKRPPEGILTDRQPLLHDGE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161454

ORF Size: 777 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_001161454.1](#), [NP_001154926.1](#)

RefSeq Size: 3214 bp

RefSeq ORF: 780 bp

Locus ID: 220002

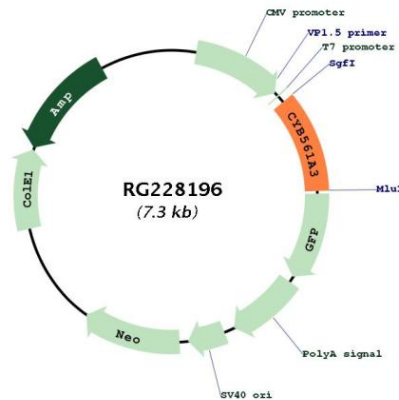
UniProt ID: [Q8NBI2](#)

Cytogenetics: 11q12.2

Protein Families: Transmembrane

Gene Summary: Ferric-chelate reductase that reduces Fe(3+) to Fe(2+) before its transport from the endosome to the cytoplasm. Probably uses ascorbate as electron donor (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG228196