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Product datasheet for RC228196

CYB561A3 (NM_001161454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB561A3 (NM_001161454) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CYB561A3
Synonyms:	CYBASC3; LCYTB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228196 representing NM_001161454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAAGAACTTTTCTGACTCCTTCCTGTCTAGGGAGTGCGTGATCAGAATGGTGTCTGGACGGTTCT
ACTTGTCCTGCCTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTCACTATCTACTGGATGCAGTA
CTGGCGTGGTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGGCACCCAGTGCTTATGGTTGCT
GGCATGGTGGTATTCTATGGAGGTGCGTCACTGGTGTACCGCCTGCCCCAGTCGTGGGTGGGGCCCAAAC
TGCCCTGGAAACTCCTCCATGCAGCGCTGCACCTGATGGCCTTCGTCCTCACTGTTGTGGGGCTGGTTGC
TGTCTTTACGTTTCACAACCATGGAAGGACTGCCAACCTCTACTCCCTTCACAGCTGGCTGGGCATCACC
ACTGTCTTCCTCTTCGCCTGCCAGTGGTTCCTGGGCTTTGCTGTCTTCCTCCTGCCCTGGGCGTCCATGT
GGCTGCGCAGCCTCCTAAAACCTATCCACGTCTTTTTTGGAGCCGCCATCCTCTCTCTGTCCATCGCATC
CGTCATTTCGGGCATTAATGAGAAGCTTTTCTTCAGTTTGAAAAACACCACCAGGCCATACCACAGCCTG
CCCAGTGAGGCGGTCTTTGCCAACAGCACCGGGATGCTGGTGGTGGCCTTTGGGCTGCTGGTGCTCTACA
TCCTTCTGGCTTCATCTTGGAAGCGCCCAGAGCCGGGGATCCTGACCGACAGACAGCCCCTGCTGCATGA
TGGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

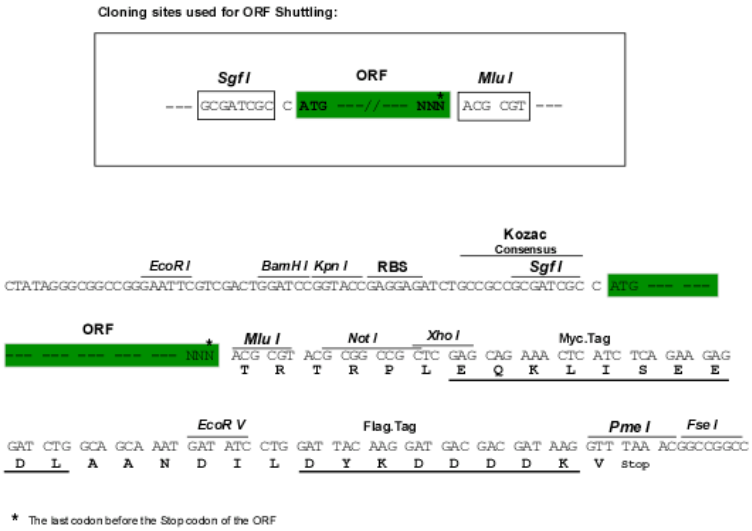
>RC228196 representing NM_001161454
Red=Cloning site Green=Tags(s)

MGKNFSDSFLSRECVIRMVSGRFYLSCLLLGSLGSMCILFTIYWMQYWRGGFAWNGSIYMFNWHPVLMVA
GMVVFYGGASLVYRLPQSWVGPKLPWKLLHAALHLMAFVLTVVGLVAVFTFHNHGRTANLYSLHSWLGIT
TVFLFACQWFLGFAVFLLPWASMWLRSLLKPIHVFFGAAILSLSIASVISGINEKLFFSLKNTTRPYHSL
PSEAVFANSTGMLVVAFGLLVLYILLASSWKRPEPGILTDRQPLLHDGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001161454.1, NP_001154926.1

RefSeq ORF: 780 bp

Locus ID: 220002

UniProt ID: Q8NBI2

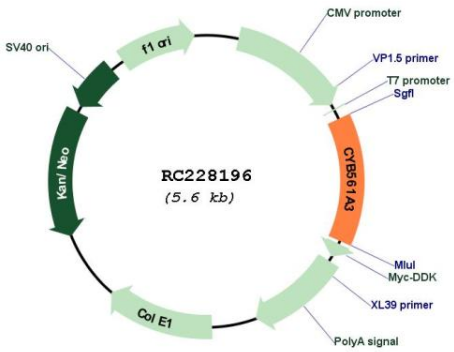
Cytogenetics: 11q12.2

Protein Families: Transmembrane

MW: 29 kDa

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 RC228196