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Product datasheet for RC202582

CYB561A3 (NM_153611) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB561A3 (NM_153611) 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:

>RC202582 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTCTGGACGGTTCTACTTGTCCTGCCTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTCA
CTATCTACTGGATGCAGTACTGGCGTGGTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGGCA
CCCAGTGCTTATGGTTGCTGGCATGGTGGTATTCTATGGAGGTGCGTCACTGGTGTACCGCCTGCCCCAG
TCGTGGGTGGGGCCCAAACTGCCCTGGAAACTCCTCCATGCAGCGCTGCACCTGATGGCCTTCGTCCTCA
CTGTTGTGGGGCTGGTTGCTGTCTTTACGTTTCACAACCATGGAAGGACTGCCAACCTCTACTCCCTTCA
CAGCTGGCTGGGCACCACCACTGTCTTCCTCTTCGCCTGCCAGTGGTTCCTGGGCTTTGCTGTCTTCCTC
CTGCCCTGGGCGTCCATGTGGCTGCGCAGCCTCCTAAAACCTATCCACGTCTTTTTTGGAGCCGCCATCC
TCTCTCTGTCCATCGCATCCGTCATTTCGGGCATTAATGAGAAGCTTTTCTTCAGTTTGAAAAACACCAC
CAGGCCATACCACAGCCTGCCCAGTGAGGCGGTCTTTGCCAACAGCACCGGGATGCTGGTGGTGGCCTTT
GGGCTGCTGGTGCTCTACATCCTTCTGGCTTCATCTTGGAAGCGCCCAGAGCCGGGGATCCTGACCGACA
GACAGCCCCTGCTGCATGATGGGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC202582 protein sequence
Red=Cloning site Green=Tags(s)

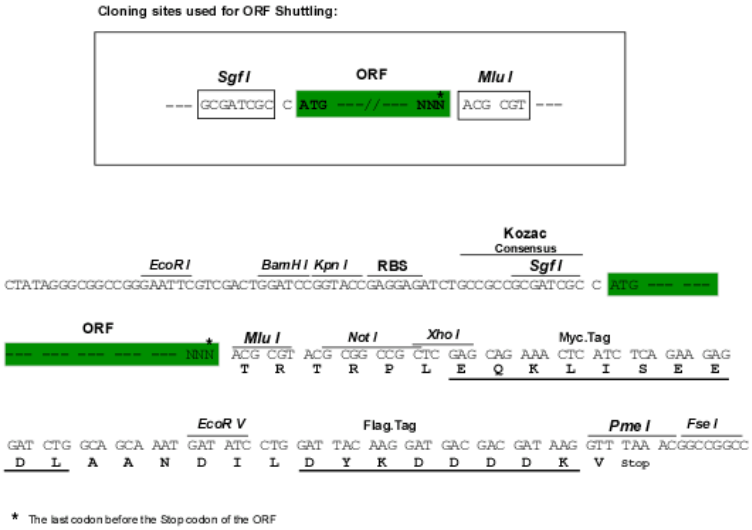
MVSGRFYLSCLLLGSLGSMCILFTIYWMQYWRGGFAWNGSIYMFNWHPVLMVAGMVVFYGGASLVYRLPQ
SWVGPKLPWKLLHAALHLMAFVLTVVGLVAVFTFHNHGRTANLYSLHSWLGTTTVFLFACQWFLGFAVFL
LPWASMWLRSLLKPIHVFFGAAILSLSIASVISGINEKLFFSLKNTTRPYHSLPSEAVFANSTGMLVVAF
GLLVLYILLASSWKRPEPGILTDRQPLLHDGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6555_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153611

ORF Size: 726 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).

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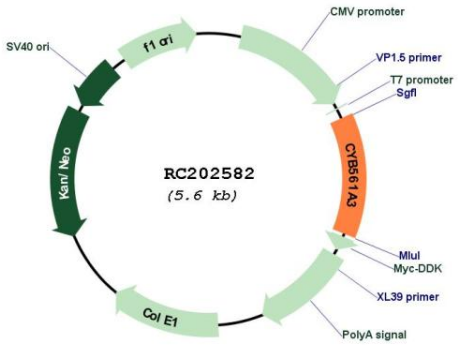
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_153611.3, NP_705839.2
RefSeq Size:	3045 bp
RefSeq ORF:	729 bp
Locus ID:	220002
UniProt ID:	Q8NBI2
Cytogenetics:	11q12.2
Domains:	Cytochrome_B561
Protein Families:	Transmembrane
MW:	27.2 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 RC202582

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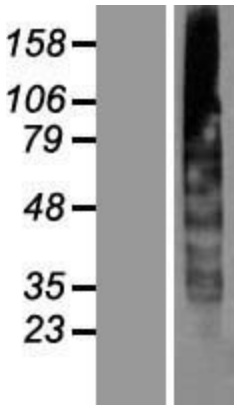

Western blot validation of overexpression lysate (Cat# [LY431802]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228774] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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