

Product datasheet for **SC310606**

CYB561A3 (NM_153611) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CYB561A3 (NM_153611) Human Untagged Clone
Tag:	Tag Free
Symbol:	CYB561A3
Synonyms:	CYBASC3; LCYTB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310606 representing NM_153611. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGGTGTCTGGACGGTTCTACTTGTCTGCCTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTC
ACTATCTACTGGATGCAGTACTGGCGTGGTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGG
CACCCAGTGCTTATGGTTGCTGGCATGGTGGTATTCTATGGAGGTGCGTCACTGGTGTACCGCCTGCC
CAGTCGTGGGTGGGGCCAACTGCCCTGGAACTCCTCCATGCAGCGCTGCACCTGATGGCCTTCGTC
CTCACTGTTGTGGGGCTGGTTGCTGTCTTACGTTTACAACCATGGAAGGACTGCCAACCTCTACTCC
CTTCACAGCTGGCTGGGCATCACCCTGCTTCTCTTCGCTGCCAGTGGTTCTTGGGCTTTGCTGTC
TTCTCTCTGCCCTGGGCGTCCATGTGGCTGCGCAGCCTCCTAAACCTATCCACGCTTTTTTGGAGCC
GCCATCCTCTCTGTCCATCGCATCCGTCATTTGCGGCATTAATGAGAAGCTTTCTTCAGTTTGAAA
AACACCACCAGGCCATACCACAGCCTGCCAGTGAGGCGGTCTTTGCCAACAGACCGGGATGCTGGTG
GTGGCCTTTGGGCTGCTGGTGTCTACATCCTTCTGGCTTCATCTTGGAAGCGCCAGAGCCGGGATC
CTGACCGACAGACAGCCCTGCTGCATGATGGGGAG**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_153611
Insert Size:	729 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_153611.4</u>
RefSeq Size:	3045 bp
RefSeq ORF:	729 bp
Locus ID:	220002
UniProt ID:	<u>Q8NBI2</u>
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] Transcript Variant: This variant (2) uses an alternate splice junction at the 5' end of the last exon compared to variant 4. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 3. Variants 2 and 3 both encode the same isoform (2).