

Product datasheet for **SC126104**

BOLA3 (NM_212552) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BOLA3 (NM_212552) Human Untagged Clone
Tag:	Tag Free
Symbol:	BOLA3
Synonyms:	MMDS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_212552 edited AGTGACCTCGGGCGGGTCACGTCGGCCGGGCATGGCTGCATGGAGCCCGCCGCGGC AGCGCCTCTCCTCCGCGGGATCCGCGGGCTTCCACTTCACCATCGGATGTTTGCCACTCA GACTGAGGGGAGCTCAGAGTGACCCAAATTCTCAAAGAAAAGTTTCCACGAGCTACAGC TATAAAAAGTCACTGACATTTTCAGGAGGTTGTGGGCGCATGTATGAAATTAATGAATA AGAAGAATTTAAGGAGAAGAGAACTGTCCAGCAGCACCAGATGGTTAATCAGGCACTAAA AGAAGAAATCAAAGAGATGCATGGATTGCGGATATTTACCTCTGTCCCAAACGCTGACC ACGCCCTGGCTGCATAGATGCTGCTGCTTAAGACCTTGGATGAACTTCACTGACATCATT CTTCCCTAAGCAGTCACCAAAAAATTTATATATTTGCTCATATACATTTCCATATTATA ATTATAGAAGATGTATAATCTATTTAGATGTTAATTAAGGAAACAAACAACTGAAAAAA AAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_212552 unedited AGGTTCAAAATTTGTATACACTCATATAGGCGGCCGCATAAATTCGTATAGCATACATTA TACCAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGTGACC TCGGGCGGCGGGTACGTCCGCCGGGCATGGCTGCATGGAGCCCAGCGGCAGCGCCT CTCCTCCGCGGGATCCGCGGGCTTCCACTTCACCATCGGATGTTTGCCACTCAGACTGAG GGGGAGCTCAGAGTGACCCAAATCTCAAAGAAAAGTTCCACGAGCTACAGCTATAAAA GTCACTGACATTTTCAGGAGTTGTGGGGCGATGATGAAATTAATTAATAAGAAAGAA TTTAAGGAGAAGAGAAGTCCAGCAGCACCAGATGGTTAATCAGGCACTAAAAGAAGAA ATCAAAGAGATGCATGGATTGCGGATATTTACCTCTGTCCCAAACGCTGACCACGCCCT GGCTGCATAGATGCTGCTGCTTAAGACCTTGGATGAACTTCACTGACATCATTCTTCCCT AAGCAGTCAACAAAAATTTATATATTTTGTCTATACATTTCCATATTATAATTATAG AAGATGTATAATCTATTTAGATGTTAATTAAGGAAACAAACAAGTGAAGAAAAA AACTCTCCAGCGCTGGATCCGCCATAAGGGCCTGATCCTTCGAGGGGGGCGCGGTACC GATATCAAGCTTGTGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATC CCGGGTGGCATCCCTGTGACCCCTCCAGTGCCTCTCTGGCCCTGNGAAGTGCCTC CCGTGCCACCAGCCTTGTCTAATAAAATTAAGTGCATATTTGTCTGACTAGGTGTC CTTCTA
Restriction Sites:	NotI-NotI
ACCN:	NM_212552
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).
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:	NM_212552.1 , NP_997717.1
RefSeq Size:	549 bp
RefSeq ORF:	207 bp
Locus ID:	388962
UniProt ID:	Q53S33
Cytogenetics:	2p13.1
Protein Families:	Transcription Factors

Gene Summary:

This gene encodes a protein that plays an essential role in the production of iron-sulfur (Fe-S) clusters for the normal maturation of lipoate-containing 2-oxoacid dehydrogenases, and for the assembly of the mitochondrial respiratory chain complexes. Mutation in this gene has been associated with multiple mitochondrial dysfunctions syndrome-2. Two alternatively spliced transcript variants encoding different isoforms with distinct subcellular localization have been reported for this gene (PMID:21944046). [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) encodes the longer isoform (1), which is localized to the mitochondria (PMID:21944046). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.