

Product datasheet for **SC108700**

BOLA1 (NM_016074) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BOLA1 (NM_016074) Human Untagged Clone
Tag:	Tag Free
Symbol:	BOLA1
Synonyms:	CGI-143
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108700 sequence for NM_016074 edited (data generated by NextGen Sequencing)

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ATGCTGAGTGGGCGGCTGGTCTGGGTCTGGTCTCCATGGCTGGCCGCGTTTGTGGTGC
CAGGGCAGCGCGGATCCGGGGCCATCGGTCCGGTGGAGGCCGCCATTTCGCACGAAGTTG
GAGGAGGCCCTGAGCCCCGAGGTGCTAGAGCTTCGCAACGAGAGCGGTGGCCACGCGGTG
CCGCCTGGCAGTGAGACTCACTCCGCGTGGTGTGGTGGTCTCGTTTCGAGGGACTG
AGCCCCCTACAACGACACCGGCTGGTCCACGCAGCGCTGGCCGAGGAGCTGGGAGGTCCG
GTCCATGCGCTGGCCATCCAGGCACGGACCCCCGCCAGTGGAGAGAGAACTCTCAGCTG
GACACTAGCCCCCATGCCTGGGTGGGAACAAGAAAACCTAGGAACCCCTGA
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Clone variation with respect to NM_016074.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016074 unedited</p> <pre>GCATATTTGTAATACGACTCACTATAGGGCGGCCGCGATTCCGGCACGAGGCAGGACTGCA TTTTGCTCCGGAGCGTCCAGAGTCTGGCCCTGAGCGGGAATCGCAGTGGCCGAGGCTGA GCGGCAGGTAGAAGGGGCGTCTCCGGGGCTTACAGGGAACACAGGGGCTTCGGCCCAAC CACAAGTAGCAGTTGCACATGCCCTACTTTTGCCCATTTTGGCAAATCCCCTAAGGAA CGAACGCGCCTCGCGTGGGGGCTTTCTAATCTTCGCTTGTCCCTTCACTTCCACAGCTG GAGGTCGAATTCACCACGTACGTAGAGAAAAGGGGCGGTGTCTCGGGTCTCCCCGTGTG GCATCAAGGCGGGCTCCCTATAGGAGCTGGTGTGGACGTCCGGGCGTGGGGTTAGGGCGG ATGCGGGGATCGCGGGGCGGGTGTGACATTGTGCTCTACCAGGCGGATCGCCCCGACC CTCACTCTGGCGTCTGAGTCTCTGGCGTAGCCATGCTGAGTGGGCGGCTGGTCTGGG TCTGGTCTCCATGGCTGGCCGCTTTGTTGTGCCAGGGCAGCGCGGATCCGGGGCCAT CGGTCCGGTGGAGCCGCCATTCGCACGAAGTTGGAGGAGGCCCTGAGCCCCGAGGTGCT AGAGCTTCGCACGAGAGCGGTGGCCACGCGGTCCCGCTGGCAGTGAAGTCACTTCCGC GTGGCTGTGGTGAAGTCTCGTNTCGAGGACTGAGCCCCCTAACACGACACCCGGCTGGT TCACGCANCGCTGGCCGATGAGCTGGGAAGTCCCGTTCATGCGCTGTCCATCCAGGCACG GACCCCCGCCCATGGGAGAGAGAACTTTCAGCTGGCAACTAACCCCCCTGCCTTGGGTG GGGACCAGAANACTCTAGAACCCTGTACCCAGAGAAGGATGACCAGGATCCGCATGG GCCGGGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016074 unedited</p> <pre>NNCCTTGCCATGNNACCGCGGCCGAATCTANGATCGAGNTTTTTTTTTTTTTTTTTTTTT TAGTGTAATTTCTTTAATGTATAGGATTGTTTCCAACATCAGGTCTGGTGAATTCT GTCACGATTTAACATGGAACATCCGGGCTGCCCTTCTGAATAGTCCAGGCAAGAGCAG TAGTGAGTGATTCTTCTTTTTCTCGGGTCACTTTGACCTGAAGCAAGTTGCTATCTTC GGAGAGTATGTATGGACCCAACAGAATGGGGCCAGGGTCTTCCATCCCTTACAATCC TGGACTGTATCAAAGGGAAGGCCTCGGTAATTCGTGCTCACCCAGCCATTCCGGATCCTG GTCCTCCCTCTCTGGGGTTCAGGGGTTCTAGAGTTTTCTTGTTCACCCAGGCATG GGGGGCTAGTGTCCAGCTGAGAGTTCTCTCCACTGGGCGGGGTCCTGCCTGGATGG CCAGCGCATGGACCGGACCTCCCAGTCTCGGCCAGCGCTGCGTGGACCAGCCGGTGTG GTTGTAGGGGGCTCAGTCCCTCGAAACGAGAGCTCACCACAGCCACGCGGAAGTGAAGTCT CACTGCCAGGCGGACCGGTGGCCACCGCTCTCGTTGCGAAGCTCTAGCACCTCGGGG TCAGGGCCTCTNCAACTTCGTGCGAATGGCGNCTNACCGGACCGATGGCCCCGGATC CCCAGCTGCCCTGGCACAAACAACGCGGCCAGCCATGGAGACCAGACCAGACAGGCGC CACTCAGATGGGCTACCCGAGACTCANACGCCAGAGTGAAGTGGGCGGATCGCCTGGG AGAGCCAATGGCAACACCGGCCGGATCCCCGAATCGCCCTACCCGCGCGGATCCCA CCAGTTCTAAGGGACCGCCTA</pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_016074
Insert Size:	1250 bp
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:

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_016074.1](#), [NP_057158.1](#)

RefSeq Size: 812 bp

RefSeq ORF: 414 bp

Locus ID: 51027

UniProt ID: [Q9Y3E2](#)

Cytogenetics: 1q21.2

Domains: BolA

Protein Families: Transcription Factors

Gene Summary: Acts as a mitochondrial iron-sulfur (Fe-S) cluster assembly factor that facilitates (Fe-S) cluster insertion into a subset of mitochondrial proteins (By similarity). Probably acts together with the monothiol glutaredoxin GLRX5 (PubMed:27532772). May protect cells against oxidative stress (PubMed:22746225).[UniProtKB/Swiss-Prot Function]