

Product datasheet for RC217125

BOLA3 (NM_001035505) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BOLA3 (NM_001035505) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BOLA3
Synonyms: MMDS2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC217125 representing NM_001035505
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCATGGAGCCCGCCGCGGCAGCGCCTCTCTCCGCGGGATCCGCGGGCTTCCACTTCACCATC
GGATGTTTGCCACTCAGACTGAGGGGAGCTCAGAGTGACCCAAATTCCAAAGAAAAGTTCCACGAGC
TACAGCTATAAAAGTCACTGACATTTAGGCACTAAAAGAAGAAATCAAAGAGATGCATGGATTGCGGAT
ATTTACCTCTGTCCCAAACGCTGACCAGCCCTGGCTGCATAGATGCTGCTGCTTAAGACCTTGGATGA
ACTTCACTGACATCATTCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217125 representing NM_001035505
Red=Cloning site Green=Tags(s)
MAAWSPAAAAPLLRGIRGLPLHHRMFATQTEGELRVTQILKEKFPRAAIKVTDISGTRRNQRDAWIAD
IYLCQPQLTTPWLHRCCLRPWMNFDTIILP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8017_g03.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001035505

ORF Size: 303 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.

RefSeq: [NM_001035505.2](#)

RefSeq Size: 465 bp

RefSeq ORF: 306 bp

Locus ID: 388962

UniProt ID: [Q53S33](#)

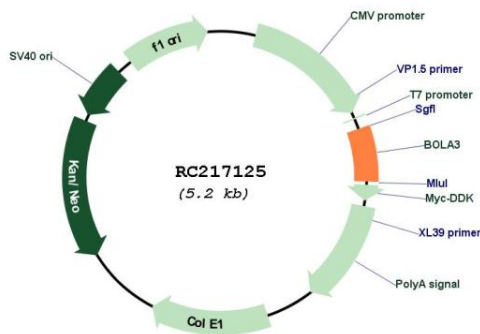
Cytogenetics: 2p13.1

Protein Families: Transcription Factors

MW: 11.4 kDa

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]

Product images:



Circular map for RC217125