

Product datasheet for **RG217125**

BOLA3 (NM_001035505) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BOLA3 (NM_001035505) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BOLA3
Synonyms: MMDS2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217125 representing NM_001035505
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCATGGAGCCCGCCGCGGCAGCGCCTCTCTCCGCGGGATCCGCGGGCTTCCACTTCACCATC
GGATGTTTGCCACTCAGACTGAGGGGGAGCTCAGAGTGACCCAAATTCCAAAGAAAAGTTCCACGAGC
TACAGCTATAAAAGTCACTGACATTTTCAGGCACTAAAAGAAGAAATCAAAGAGATGCATGGATTGCGGAT
ATTTACCTCTGTCCCAAACGCTGACCACGCCCTGGCTGCATAGATGCTGCTGCTTAAGACCTTGGATGA
ACTTCACTGACATCATTCTTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217125 representing NM_001035505
Red=Cloning site **Green**=Tags(s)
MAAWSPAAAAPLLRGIRGLPLHHRMFATQTEGELRVTVQILKEKFPRAATAIKVTDISGTRRRNQDAWIAD
IYLCQPQLTTPWLHRCCLRPWMNFTDIILP

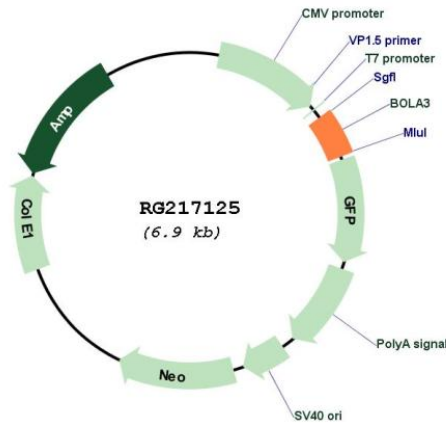
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


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:	<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_001035505.2
RefSeq Size:	465 bp
RefSeq ORF:	306 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]