OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC318691

MIA3 (NM_198551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIA3 (NM_198551) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIA3
Synonyms:	ARNT; D320; TANGO; TANGO1; UNQ6077
Vector:	pCMV6 series

Fully Sequenced ORF:

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>NCBI ORF sequence for NM_198551, the custom clone sequence may differ by one or more
nucleotides
ATGGCTGCGGCGCCTGGGCTGCTCGTCTGGCTGCTCGTGCTCCGGCTGCCCTGGCGGGTG
CCGGGCCAGCTGGACCCCAGCACTGGCCGGCGGTTCTCGGAGCACAAACTCTGCGCGGAC
GACGAATGCAGCATGTTAATGTACCGCGGTGAGGCTCTTGAAGATTTCACAGGCCCGGAT
TGTCGTTTTGTGAATTTTAAAAAAGGTGATCCTGTATATGTTTACTATAAACTGGCAAGA
GGATGGCCTGAAGTTTGGGCTGGAAGTGTTGGACGCACTTTTGGATATTTTCCAAAAGAT
TTAATCCAGGTAGTTCATGAATATACCAAAGAAGAGCTACAAGTTCCAACAGATGAGACG
GATTTTGTTTGTTTTGATGGAGGAAGAGATGATTTTCATAATTATAATGTAGAAGAACTT
TTAGGGTTTTTGGAACTGTACAATTCTGCAGCTACAGATTCTGAGAAAGCTGTAGAAAAA
ACTTTACAGGATATGGAAAAAAACCCTGAATTATCTAAGGAAAGGGAACCTGAACCTGAA
CCAGTAGAAGCCAACTCAGAGGAAAGTGATAGTGTATTCTCAGAAAACACTGAGGATCTT
CAGGAACAGTTTACAACTCAGAAGCACCACTCCCATGCAAACAGCCAAGCAAATCATGCT
CAGGGAGAGCAGGCTTCATTTGAATCTTTTGAAGAAATGCTGCAAGATAAACTAAAAGTG
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TCAACAGCTGATGCACTTGTATCTGATGATGAGACAACCAGACTCGTTACTTCATTAGAA
GATGATTTTGATGAGGAATTGGATACTGAGTATTATGCAGTTGGAAAGGAAGATGAGGAG
AACCAAGAAGACTTTGATGAGTTGCCATTACTTACCTTTACAGATGGGGAAGATATGAAA
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TATGATGATACAGAAAATGACCTAAAAGGAGCAGCTATTCATATCTCAAAAGGAATGCTC
CACGAAGAAAAGCCTGGAGAGCAGATTTTGGAAGGTGGCTCAGAGAGTGAATCTGCACAG
AAAGCTGCAGGGAATCAAATGAATGACAGAAAGATTCAACAGGAATCCCTGGGTAGTGCA
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CCACTCATGGGAGATGACCACCCTAACGCATCCAGAGACAGTGTGGAGGGAGACGCTTTG
GTAAATGGGGCCAAACTGCACACGCTTTCAGTGGAGCATCAACGTGAGGAATTGAAAGAG
GAATTAGTTCTTAAAACTCAAAACCAACCTAGATTCTCCTCTCCAGATGAGATTGATTTG
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AACTGGCTCAAAGCTCGTGCTGCAGAAAGAGCTATAGCTGAAGAGAAAAGGGAAGCTGCC

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AATTTGAGACACAAATTATTAGAATTAACACAAAAGATGGCAATGCTGCAAGAAGAACCT
GTGATTGTAAAACCAATGCCAGGAAAACCAAATACACAAAACCCTCCACGGAGAGGTCCT
CTGAGCCAGAATGGCTCTTTTGGCCCATCCCCTGTGAGTGGTGGAGAATGCTCCCCTCCA
TTGACAGTGGAGCCACCCGTGAGACCTCTCTCTGCTACTCTCAATCGAAGAGATATGCCT
AGAAGTGAATTTGGATCAGTGGACGGGCCTCTACCTCATCCTCGATGGTCAGCTGAGGCA
TCTGGGAAACCCTCTCCTTCTGATCCAGGATCTGGTACAGCTACCATGATGAACAGCAGC
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CCACCCATTCGATATGGACCACCACCTCAGCTCTGCGGACCTTTTGGGCCTCGGCCACTT
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CCATTTAGACCTTTAGGTTCACTTGGCCCAAGAGAGTACTTTATTCCTGGTACCCGATTA
CCACCCCCAACCCATGGTCCCCAGGAATACCCACCACCACCTGCTGTAAGAGACTTACTG
CCGTCAGGCTCTAGAGATGAGCCTCCACCTGCCTCTCAGAGCACTAGCCAGGACTGTTCA
CAGGCTTTAAAACAGAGCCCA

Restriction Sites: Please inquire

ACCN: NM_198551

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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: NM_198551.2, NP_940953.2

RefSeq Size: 8123 bp

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RefSeq ORF:	5724 bp
Locus ID:	375056
UniProt ID:	Q5JRA6
Cytogenetics:	1q41
Gene Summary:	Plays a role in the transport of cargos that are too large to fit into COPII-coated vesicles and require specific mechanisms to be incorporated into membrane-bound carriers and exported from the endoplasmic reticulum. This protein is required for collagen VII (COL7A1) secretion by loading COL7A1 into transport carriers. It may participate in cargo loading of COL7A1 at endoplasmic reticulum exit sites by binding to COPII coat subunits Sec23/24 and guiding SH3-bound COL7A1 into a growing carrier. Does not play a role in global protein secretion and is apparently specific to COL7A1 cargo loading. However, it may participate in secretion of other proteins in cells that do not secrete COL7A1. It is also specifically required for the secretion of lipoproteins by participating in their export from the endoplasmic reticulum (PubMed:27138255, PubMed:19269366). Required for correct assembly of COPII coat components at endoplasmic reticulum exit sites (ERES) and for the localization of SEC16A and membrane-bound ER-resident complexes consisting of MIA2 and PREB/SEC12 to ERES (PubMed:28442536).[UniProtKB/Swiss-Prot Function]

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