

## Product datasheet for **SC337453**

### **MIA3 (NM\_001300867) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIA3 (NM_001300867) Human Untagged Clone
Tag:	Tag Free
Symbol:	MIA3
Synonyms:	ARNT; D320; TANGO; TANGO1; UNQ6077
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001300867, the custom clone sequence may differ by one or more nucleotides

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ATGGACTCAGTACCTGCCACTGTGCCTTCTATCGCCGCTACCCCGGGGACCCGGAACCTGTGGGACCCT
TGCTGTGCTCTACGCAGCCTTCATAGCCAAGCTGCTGGAGCTAGTTGCTACATTGCCTGATGATGTTCA
GCCTGGGCTGATTTTTATGGACTGCCATGGAACCTGTATTTACTACTGCCTTCTGGGAATTGCTTCG
TTTGCCATTTTCTATGGAGAAGTGCCTTGTGTGAAGGATAGAGTATATCAAGTCACGGAACAGCAAA
TTTCTGAGAAGTTGAAGACTATCATGAAAGAAAATACAGAACTTGTACAAAAATTGTCAAATATGAACA
GAAGATCAAGGAATCAAAGAAACATGTTTCAGGAAACCAGGAAACAAAATATGATTCTCTCTGATGAAGCA
ATTAATATAAGGATAAAATCAAGACACTTGAAAAAATCAGGAAATCTGGATGACACAGCTAAAAATC
TTCGTGTTATGCTAGAATCTGAGAGAGAACAGAATGTCAAGAATCAGGACTTGATATCAGAAAACAAGAA
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GCAAAATCAAATCAATTTGAGAAGTCTCAGAAAGATTTGGAAGTAGCTTACTCACAAAGGATGATAATATT
AATGCTTTGACTAACTGCATTACACAGTTGAATCTGTTAGAGTGTGAATCTGAATCTGAGGGTCAAATA
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TATGAACGGCAAGAAAGAGAGCACAGGCTGTGAGCTGCAGATGAAAAGGCAGTTTCGGCTGCAGAGGAAG
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GCTGAAGAGAAAAGGAAAGCTGCCAATTTGAGACACAAATTATTAGAATTAACACAAAAGATGGCAATGC
TGCAAGAAGAACCTGTGATTGTAAAACCAATGCCAGGAAAACCAATACACAAAACCTCCACGGAGAGG
TCCTCTGAGCCAGAAATGGCTCTTTTGGCCATCCCCTGTGAGTGGTGGAGAATGCTCCCCTCCATTGACA
GTGGAGCCACCCGTGAGACCTCTCTGCTACTCTCAATCGAAGAGATATGCCTAGAAGTGAATTTGGAT
CAGTGGACGGCCTCTACCTCATCCTCGATGGTCAGCTGAGGCATCTGGGAAACCTCTCCTTCTGATCC
AGGATCTGGTACAGCTACCATGATGAACAGCAGCTCAAGAGGCTCTCCCCTACCAGGACTCGATGAA
GGCAAGGTTAATATGGCTCCAAAAGGGCCCTCCTTTCCAGGAGTCCCTCTCATGAGCACCCCATGG
GAGGCCCTGTACCACCACCCATTGATATGGACCACCACCTCAGCTCTGCGGACCTTTTGGGCTCGGCC
ACTTCTCCACCTTTGGCCCTGGTATGCGTCCACCCTAGGCTTAAGAGAATTTGCACCAGGCGTTCCA
CCAGGAAGACGGGACCTGCCTCTCCACCCTCGGGGATTTTACCTGGACACGCACCATTTAGACCTTTAG
GTTCACTTGGCCCAAGAGAGTACTTTATTCCTGGTACCCGATTACCACCCCAACCCATGGTCCCAGGA
ATACCCACCACCCTGCTGTAAGAGACTTACTGCCGTGAGGCTCTAGAGATGAGCCTCCACCTGCCTCT
CAGAGCACTAGCCAGGACTGTTACAGGCTTTAAAACAGAGCCCATAA

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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001300867

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001300867.1</a> , <a href="#">NP_001287796.1</a>
<b>RefSeq Size:</b>	4924 bp
<b>RefSeq ORF:</b>	2358 bp
<b>Locus ID:</b>	375056
<b>UniProt ID:</b>	<a href="#">Q5JRA6</a>
<b>Cytogenetics:</b>	1q41
<b>Gene Summary:</b>	<p>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]</p>