

Product datasheet for **SC123026**

MON1A (NM_032355) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MON1A (NM_032355) Human Untagged Clone
Tag:	Tag Free
Symbol:	MON1A
Synonyms:	SAND1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_032355 edited
GCCGGCGAAAGCTATCTTCTGCACCGCGCCGGGTGAGGGCGGTGGGAGGGAGCGGTG
CCTGCGCTGTGGCCATGTCTGTGTACGCAGGGGGCCGGGGCCCGCAAGCTGTGCCCTC
AGGCCGGCCCCGGCCGGACACCCCTTACCCTCCATGGGTCCGGCAGAGGGCAGTGACCGG
CACCTTCTGTGCGTCCTGGACTCCTCTGAGAAACAGGAGAGCTCAAAGGATGGCTACTGA
CATGCAGAGGAAGAGAAGCAGCGAATGCCTTGATGGCACATTGACTCCTTCTGATGGACA
GAGTATGGAGAGAGCTGAGAGCCCCACACCGGAATGGCCAGGGAATGGAGCCAGGTGC
GGCCAGGAGGGTGCCATGTTTCGTCCATGCCCGTTCTACGAGGACCTGACTGAGTCAGA
GGATGGGGCAGCTTCTGGGGACAGCCACAAGGAGGGTACCAGGGGTCCCCGCGCTGCC
TACAGACATGCGCCAGATCAGCCAGGACTTTAGCGAGCTAAGCACCCAGCTGACGGGTGT
GGCCCCGGACCTGCAGGAGGAGATGCTGCCAGGAAGCTCTGAGGATTGGCTGGAACCCCC
AGGGGCAGTTGGGCGACCAGCCACAGAGCCCCCAGGGAGGGCACAACCGAGGGGGATGA
GGAGGATGCCACGGAGGCATGGCGCTGCACCAGAAGCATGTCTTTGTGCTGAGTGAGGC
AGGGAAGCCTGTGTAATCCCGCTATGGGTCTGAGGAGGCATTTCCAGCACTATGGGTGT
TATGGTGGCCCTGGTGTCTTCTGAGGAGCAGACAAGAAGCCATCCGCTCCATCCATGC
AGATGGCTACAAGGTAGTATTCTGTCGCGGAGCCCGCTGGTGTAGTGGCGGTGGCTCG
TACGCGGCAGTCGGCACAGAGCTGGCGCAGGAGCTGCTACATCTACTACCAGATCCT
AAGCCTTCTTACCAGTGCAGCTGAGCCACATCTTCCAGCAGAAGCAGAACTATGATTT
GCGGCGCTACTCTCGGGCTCAGAGCGCATCACCGACAACCTGCTGCAGCTCATGGCAGG
AGACCCAGCTTCTGATGGGGCGGCACGGTGCCTGCCCTGGCGGGCGCCGTGCGCGA
CACTGTGAGCGCCAGCCTGCAGCAGGCGGTGCGCGCAGCCTGGTCTTCTCCATCCTGCT
GGCCCCAACCAGCTCGTGGCACTCGTGCGCCAAAGGACCAATTTCTGCACCCCATCGA
CCTGCACCTGCTCTTCAACCTCATTAGTTCCTCCTCGTCTTTGCGGAGGGCGAGGCCTG
GAGCCCCGTGTGCTGCCAAATTCAACGCAGCCGGCTTCTTCCACGCACACATCTCTTA
CCTAGAGCCTGACACTGACCTCTGCCTGCTGCTTGTCTCCACTGACCGTGAGGACTTCTT
TGCAGTCTCTGACTGCCGCCCGCTTCCAGGAGCGCCTTCGCAAGCGGGAGCCCACT
GGCCCTGCGAGAGGCACTGCGCACACCCTACTACAGCGTTGCCCAAGTGGGCATCCCTGA
CCTGCGTCACTTCTCTATAAGTCAAAGAGCTCGGGACTTTCACCAGCCCTGAGATTGA
GGCCCCATACACCAGTGAAGAGGAGCAGGAGCGGCTGCTGGGCCTTACCAGTACTTGCA
CAGTCGTGCCACAATGCCTCTCGCCCACTCAAGACATTTACTACACGGGCCCCAACGA
GAACCTCCTGGCCTGGGTGACAGGCGCCTTTGAGCTCTACATGTGTTACAGCCCCCTGGG
GACCAAGGCGTACGCCGTCAAGTCCATCCATAAGCTGATGCGCTGGATCCGCAAAGAGGA
AGACCGCCTTCTCATTCTCACGCCCTCACCTATTGATGGGAATGTGTGCGGGCTCAGCC
TTCTGGACACTAGGTGTGGGAAGCCATAGGAGCCTCCAGATGGGGGCTGGCCTCTCT
TGCCAGCCAGCGGGCAGGGACTGTGGTGGTGAATGCATTAAGTGTCTTGGGAAAA
AAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032355 unedited CGCAATTCCGCACGAGGGCCGGCGATAGCTATCTTCTCTGCACCGCGCCGGGTGAGGGC GGTGGGAGGGAGCGGTGCCTGCGCTGTGGCCATGTCTGTGTACGCAGGGGGCCGGGGCCC CGCGAAGCTGTGCCCTCAGGCCGGCCCCGGCCGGACACCCCTTACCCTCCATGGGTCCTG CAGAGGGCAGTGACCGGCACCTTCTGTGCGTCTGGACTCCTCTGAGAAACAGGAGAGCT CAAAGGATGGCTACTGACATGCAGAGGAAGAGAAGCAGCGAATGCCTTGATGGCATTG ACTCCTTCTGATGGACAGAGTATGGAGAGAGCTGAGAGCCCCACACCAGGAATGGCCCAG GGAATGGAGCCAGGTGCGGGCCAGGAGGGTGCCATGTTTCGTCCATGCCCGTTCTACGAG GACCTGACTGAGTCAGAGGATGGGGCAGCTTCTGGGGACAGCCACAAGGAGGGTACCAGG GGTCCCCCGCCGCTGCCTACAGACATGCGCCAGATCAGAGAGGACTTTAGCGAGCTAAGC ACCCAGCTGACGGGTGTGGCCCGGACCTGCAGGAGGAGATGCTGCCAGGAAGCTCTGAG GATTGGCTGGAACCCCCAGGGGCAGTTGGGCGACCAGCCACAGAGCCCCCAGGGAGGGC ACAACCGAGGGGATGAGGAGGATGCCACGGAGGCATGGCGCCTGCACCAGAAGCATGTC TTTGTGCTGAGTGAGGCAGGAAGCCTGTGTACTCCCGCTATGGGTCTGAGGAGGCACTT TCCAGCACTATGGGTGTAATGGTGGCCCTGGTGTCTTCTGGAAGCAGACAAGAACGCC ATCCGCTTCATT
Restriction Sites:	Please inquire
ACCN:	NM_032355
Insert Size:	2063 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:	<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_032355.2 , NP_115731.1
RefSeq Size:	2244 bp
RefSeq ORF:	1668 bp
Locus ID:	84315
UniProt ID:	Q86VX9
Cytogenetics:	3p21.31

Gene Summary:

Plays an important role in membrane trafficking through the secretory apparatus. Not involved in endocytic trafficking to lysosomes (By similarity). Acts in concert with CCZ1, as a guanine exchange factor (GEF) for RAB7, promotes the exchange of GDP to GTP, converting it from an inactive GDP-bound form into an active GTP-bound form (PubMed:23084991).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).