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Product datasheet for SC325989

MON1A (NM_001142501) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MON1A (NM_001142501) Human Untagged Clone
Tag:	Tag Free
Symbol:	MON1A
Synonyms:	SAND1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC325989 representing NM_001142501.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCACCCCGGGGGCGGGCCGAGTCGGGCTGAGCGGCTGGAGCTGGGCCTTGGCCGCGAGAGGCCGGCG
AAAGCTATCTTCCTGCACCGGCGGCCGGGTGAGGGCGGTGGGAGGGAGCGGTGCCTGCGCTGTGGCCAT
GTCTGTGTACGCAGGGGGCCGGGGCCCCGCGAAGCTGTGCCCTCAGGCCGGCCCCGGCCGGACACCCTT
ACCCCTCCATGGGTCCGGCAGAGGGCAGTGACCGGCACCTTCTGTGCGTCCTGGACTCCTCTGAGAAAC
AGGAGAGCTCAAAGGATGGCTACTGACATGCAGAGGAAGAGAAGCAGCGAATGCCTTGATGGCACATTG
ACTCCTTCTGATGGACAGAGTATGGAGAGAGCTGAGAGCCCCACACCAGGAATGGCCCAGGGAATGGAG
CCAGATGGCTACAAGGTAGTATTCGTGCGCCGGAGCCCGCTGGTGCTAGTGGCGGTGGCTCGTACGCGG
CAGTCGGCACAAGAGCTGGCGCAGGAGCTGCTCTACATCTACTACCAGATCCTAAGCCTTCTTACCGGT
GCGCAGCTGAGCCACATCTTCCAGCAGAAGCAGAACTATGATTTGCGGCGCCTACTCTCGGGCTCAGAG
CGCATCACCGACAACCTGCTGCAGCTCATGGCACGAGACCCCAGCTTCCTGATGGGGGCGGCACGGTGC
CTGCCCCTGGCGGCGGCCGTGCGCGACACTGTGAGCGCCAGCCTGCAGCAGGCGCGTGCGCGCAGCCTG
GTCTTCTCCATCCTGCTGGCCCGCAACCAGCTCGTGGCACTCGTGCGCCGAAAGGACCAATTTCTGCAC
CCCATCGACCTGCACCTGCTCTTCAACCTCATTAGTTCCTCCTCGTCCTTTCGCGAGGGCGAGGCCTGG
ACGCCCGTGTGCCTGCCCAAATTCAACGCAGCCGGCTTCTTCCACGCACACATCTCTTACCTAGAGCCT
GACACTGACCTCTGCCTGCTGCTTGTCTCCACTGACCGTGAGGACTTCTTTGCAGTCTCTGACTGCCGC
CGCCGCTTCCAGGAGCGCCTTCGCAAGCGCGGAGCCCACCTGGCCCTGCGAGAGGCACTGCGCACACCC
TACTACAGCGTTGCCCAAGTGGGCATCCCTGACCTGCGTCACTTCCTCTATAAGTCAAAGAGCTCGGGA
CTCTTCACCAGCCCTGAGATTGAGGCCCCATACACCAGTGAAGAGGAGCAGGAGCGGCTGCTGGGCCTC
TACCAGTACTTGCACAGTCGTGCCCACAATGCCTCTCGCCCACTCAAGACCATTTACTACACGGGCCCC
AACGAGAACCTCCTGGCCTGGGTGACAGGCGCCTTTGAGCTCTACATGTGTTACAGCCCCCTGGGGACC
AAGGCGTCAGCCGTCAGTGCCATCCATAAGCTGATGCGCTGGATCCGCAAAGAGGAAGACCGCCTCTTC
ATTCTCACGCCCCTCACCTATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001142501

Insert Size: 1473 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).

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_001142501.1
RefSeq Size:	1758 bp
RefSeq ORF:	1473 bp
Locus ID:	84315
UniProt ID:	Q86VX9
Cytogenetics:	3p21.31
MW:	55.5 kDa
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 (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.