

Product datasheet for **SC304139**

MDN1 (NM_014611) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDN1 (NM_014611) Human Untagged Clone
Tag:	Tag Free
Symbol:	MDN1
Synonyms:	Rea1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014611, the custom clone sequence may differ by one or more nucleotides

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 AAAGTACCGATATTTAAAGGACCTGGAGAGATGCCTGAAATCCGATCCTACATGGAAGAG
 TTCCCATTTCCATACTATATCATTCTTCGAGATGTAAACGCACTTCTGAGACACTCAGC
 GATGCCCTCAGACAGTGGTTTGAGTTGGTGACAGCCTCTGACCACCCATAG

Restriction Sites:

Please inquire

ACCN:

NM_014611

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.

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_014611.1](#), [NP_055426.1](#)

RefSeq Size: 17400 bp

RefSeq ORF: 16791 bp

Locus ID: 23195

UniProt ID: [Q9NU22](#)

Cytogenetics: 6q15

Gene Summary: Nuclear chaperone required for maturation and nuclear export of pre-60S ribosome subunits (PubMed:27814492). Functions at successive maturation steps to remove ribosomal factors at critical transition points, first driving the exit of early pre-60S particles from the nucleolus and then driving late pre-60S particles from the nucleus (By similarity). At an early stage in 60S maturation, mediates the dissociation of the PeBoW complex (PES1-BOP1-WDR12) from early pre-60S particles, rendering them competent for export from the nucleolus to the nucleoplasm (By similarity). Subsequently recruited to the nucleoplasmic particles through interaction with SUMO-conjugated PELP1 complex (PubMed:27814492). This binding is only possible if the 5S RNP at the central protuberance has undergone the rotation to complete its maturation (By similarity).[UniProtKB/Swiss-Prot Function]