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Product datasheet for RC221930

MDM1 (NM_020128) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MDM1 (NM_020128) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MDM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC221930 representing NM_020128
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGTGCGCTTCAAGGGGCTGAGTGAATACCAGAGGAACTTCCTGTGGAAAAAGTCTTATTTGTCCG
AGTCTTGTAATTCCTCCGTGGGGCGAAAGTACCCATGGGCTGGACTTAGATCAGATCAATTAGGCATCAC
GAAAGAGCCAAGTTTTATTTCAAAAAGAAGAGTCCCTTACCATGACCCACAGATTTCAAAATCTCTGGAG
TGGAATGGAGCTATCTCAGAGAGCAATGTGGTTGCATCACCAGAACCAGAAGCCCCGGAAACACCAAAAT
CACAAGAAGCAGAACAAAAGGATGTTACTCAAGAAAGAGTTCACTCACTAGAAGCTTCCAGGGTTCCCAA
AAGAACCAGATCTCACTCTGCAGACTCCAGAGCTGAAGGGGCTTCAGATGTGGAAAATAATGAGGGTGTA
ACAAACCATACACCAGTTAATGAAAATGTGGAACTGGAACATTCTACCAAGGTTCTTTCAGAAAATGTAG
ATAATGGGGTAGGCATATTCACTGCATTTCTTTTCAAAAGCATAGAATTCTTCATTGGTTTCATTGTCAT
TTCTGTAATATTACATTTTGTGTTTCAGAATTTTCCATTGTTGTTTTCTTGTCTAATGTCTATAAGAATA
GTTGATAACAGGCTGTTGACTTTAGTTATTGTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

```
>RC221930 representing NM_020128
Red=Cloning site Green=Tags(s)

MPVRFKGLSEYQRNFLWKKSYLSESCNSSVGRKYPWAGLRSDQLGITKEPSFISKRRVPYHDPQISKSLE
WNGAISESNVVASPEPEAPETPKSQEAEQKDVTQERVHSLEASRVPKRTRSHSADSRAEGASDVENNEGV
TNHTPVNENVELEHSTKVLSENVDNGVGIFTAFLFKSIEFFIGFIVISVILHFVFQNFPLLFSCLMSIRI
VDNRLLTLVIVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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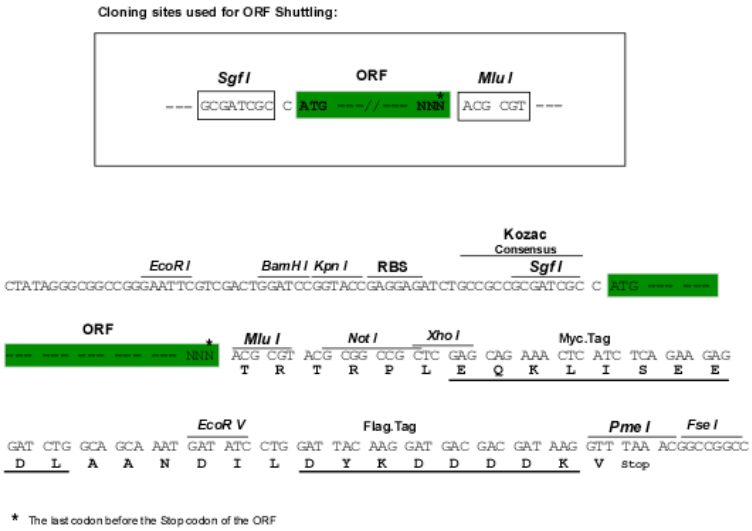
Chromatograms: https://cdn.origene.com/chromatograms/mk6482_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020128

ORF Size: 666 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_020128.4

RefSeq Size: 2092 bp

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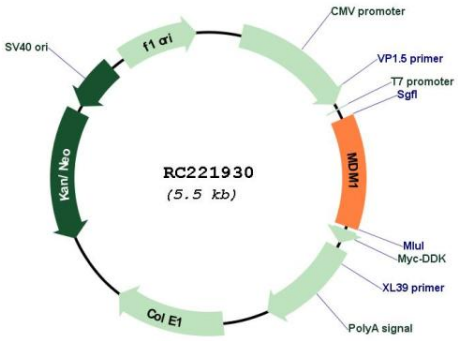
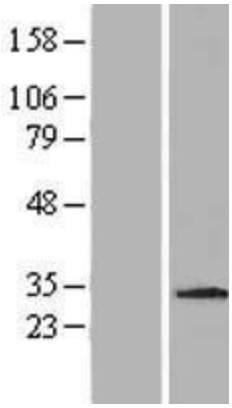
RefSeq ORF:	669 bp
Locus ID:	56890
UniProt ID:	Q8TC05
Cytogenetics:	12q15
Protein Families:	Druggable Genome
MW:	24.9 kDa
Gene Summary:	This gene encodes a microtubule-binding nuclear protein that localizes to the centrioles of dividing cells and differentiating multiciliated cells and negatively regulates centriole duplication. The encoded protein is closely associated with the centriole barrel, and resides in the centriole lumen. Naturally-occurring mutations in the orthologous mouse gene are associated with age-related retinal degeneration. [provided by RefSeq, Feb 2019]

Product images:



Circular map for RC221930



Western blot validation of overexpression lysate (Cat# [LY412668]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221930 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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