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Product datasheet for RC225212

MSGN1 (NM_001105569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MSGN1 (NM_001105569) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MSGN1
Synonyms:	MSOG; pMsgn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC225212 representing NM_001105569
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAACCTGCGCGAGACTTTCCTCAGCCTCGAGGATGGCTTGGGCTCCTCTGACAGCCCTGGCCTGC
TGTCTTCCTGGGACTGGAAGGACAGGGCAGGGCCCTTTGAGCTGAATCAGGCCTCCCCCTCTCAGAGCCT
TTCCCCGGCTCCATCGCTGGAATCCTATTCTTCTTCTCCCTGTCCAGCTGTGGCTGGGCTGCCCTGTGAG
CACGGCGGGGCCAGCAGTGGGGGCAGCGAAGGCTGCAGTGTCGGTGGGGCCAGTGGCCTGGTAGAGGTGG
ACTACAATATGTTAGCTTTCCAGCCCACCCACCTTCAGGGCGGTGGTGGCCCCAAGGCCCAGAAGGGCAC
CAAAGTCAGGATGTCTGTCCAGCGGAGGCGGAAAGCCAGCGAGAGGGAGAAGCTCAGGATGAGGACCTTG
GCAGATGCCCTGCACACCCTCCGGAATTACCTGCCACCTGTCTACAGCCAGAGAGGCCAGCCTCTCACCA
AGATCCAGACACTCAAGTACACCATCAAGTACATCGGGGAACTCACAGACCTCCTTAACCGCGGCAGAGA
GCCCAGAGCCCAGAGCGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

```
>RC225212 representing NM_001105569
Red=Cloning site Green=Tags(s)

MDNLRETFLSLEDGLGSSDSPGLLSSWDWKDRAGPFELNQASPSQSLSPAPSLESYSSSPCPAVAGLPCE
HGGASSGGSEGCSVGGASGLVEVDYNMLAFQPTHLQGGGGPKAQKGTKVRMSVQRRRKASEREKLRMRTL
ADALHTLRNYLPPVYSQRGQPLTKIQTLKYTIKYIGELTDLLNRGREPRAQSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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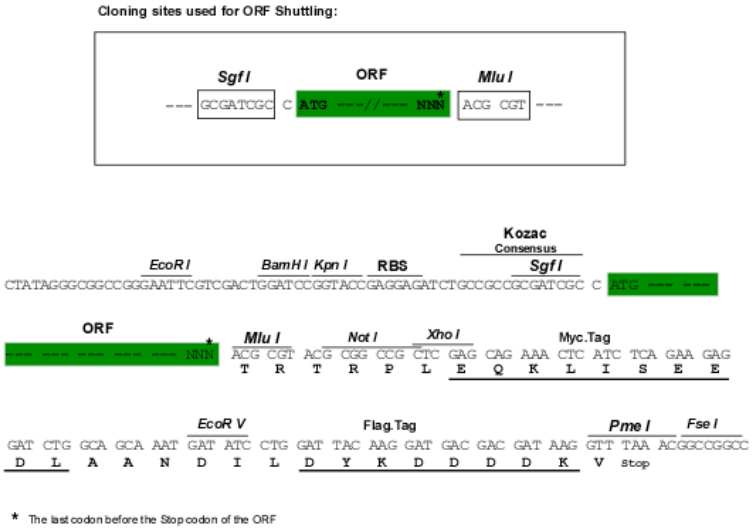
Chromatograms: https://cdn.origene.com/chromatograms/mk8033_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001105569

ORF Size: 579 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_001105569.3

RefSeq ORF: 582 bp

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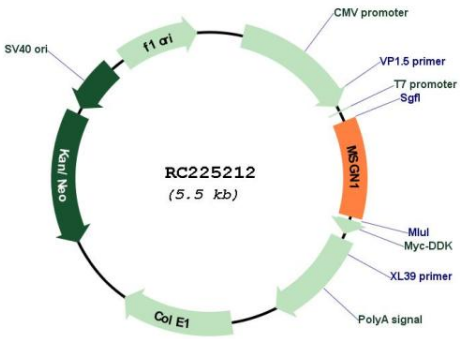
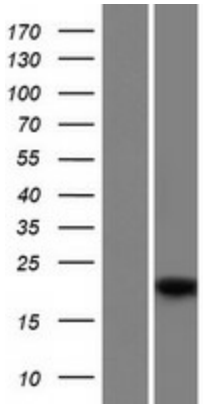
Locus ID:	343930
UniProt ID:	A6NI15
Cytogenetics:	2p24.2
Protein Families:	Druggable Genome
MW:	20.6 kDa
Gene Summary:	Involved in specifying the paraxial, but not dorsal, mesoderm. May regulate the expression of T-box transcription factors required for mesoderm formation and differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225212



Western blot validation of overexpression lysate (Cat# [LY426279]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225212 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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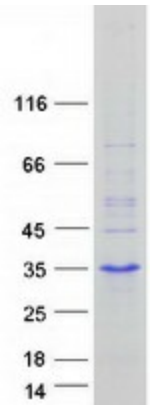

Coomassie blue staining of purified MSGN1 protein (Cat# [TP325212]). The protein was produced from HEK293T cells transfected with MSGN1 cDNA clone (Cat# RC225212) using MegaTran 2.0 (Cat# [TT210002]).

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