

Product datasheet for **RC205674**

Moesin (MSN) (NM_002444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Moesin (MSN) (NM_002444) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Moesin
Synonyms:	HEL70; IMD50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC205674 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCCATCCAGCCCAACA
 CCACCGGAAGCAGCTATTTGACCAGGTGGTGAAGAACTATTGGCTTGAGGGAAGTTTGGTCTTTGGTCT
 GCAGTACCAGGACACTAAAGTTTCTCCACCTGGCTGAAACTCAATAAGAAGGTGACTGCCAGGATGTG
 CGGAAGGAAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGA
 TTCAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAGAGGGCATTCTCAATGATGATATTTACTG
 CCCGCTGAGACCCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCAGCTTCAATAAGGAA
 GTGCATAAGTCTGGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGAGTCTGGAACAGCACAAACTCA
 ACAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGAGGATGC
 TGTCTGGAATATCTGAAGATTGCTCAAGATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAAC
 AAGAAAGGCTCAGAGCTGTGGCTGGGGGTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGAC
 TAACTCCCAAGATAGGCTTCCCCTGGAGTGAATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCAT
 CAAGCCCATTGACAAAAAGCCCCGACTTCGTCTTCTATGCTCCCCGGCTGCGGATTAACAAGCGGATC
 TTGGCCTTGTGCATGGGAACCATGAACTATACATGCGCCGTGCGAAGCCTGATACCATTGAGGTGCAGC
 AGATGAAGGCACAGGCCCGGAGGAGAAGCACCAGAAGCAGATGGAGCGTGTATGCTGGAAAATGAGAA
 GAAGAAGCGTGAATGGCAGAGAAGGAGAAGAGAAGATTGAACGGGAGAAGGAGGAGCTGATGGAGAGG
 CTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACCCGTAGGGCTCTGG
 AACTTGAGCAGGAACGGAAGCGTGCACAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAAGAAGCTGA
 AGAGGCCAAGGAGGCCTTGTGTCAGGCCTCCCGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTGAA
 ATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCGACAGAAGAAGGAGAGTGAAGGCTGTGG
 AGTGGCAGCAGAAGGCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCAT
 GAGTACACCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGCAGAGGCT
 AGTGTGACCTACGGCTGATGCTATGGCCAAGGACCGCAGTGAAGGAGAACGTACCACTGAGGCAGAGA
 AGAATGAGCGTGTGAGAAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAA
 GAAGACTGCCAATGACATGATCCATGCTGAGAACATGCGACTGGGCCGAGACAAAACAAGACCCCTGCGC
 CAGATCCGGCAGGCAACACCAAGCAGCGCATTGACGAATTTGAGTCTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205674 protein sequence
 Red=Cloning site Green=Tags(s)

MPKTISVRVTMDAELEFAIQPNTTGKQLFDQVVKIIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDV
 RKESPLLKFKRAKFPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDVFNKE
 VHKSGYLADKLLPQRVLEQHLNKDQWEERIQVWHEHRGMLREDAVLEYLKIAQDLEMYGVNYFSIKN
 KKGSELWLGVDALGLNIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRI
 LALCMGNHEL YMRRRKPDTIEVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMER
 LKQIEEQTKKAQQELEEQTRRALELEQERKRAQSEAEKLAKERQEAEAEAKEALLQASRDQKKTQEQLALE
 MAELTARISQLEMARQKKESEAVEWQQAQMVQEDLEKTRAEKLTAMSTPHVAEPAENEQDEQDENGAEA
 SADLRADAMAKDRSEEERTTEAEKNERVQKHLKALTSELANARDESKKTANDMIHAENMRLGRDKYKTLR
 QIRQGNTKQRIDEFESM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6063_f12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_002444

ORF Size: 1731 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_002444.3](#)

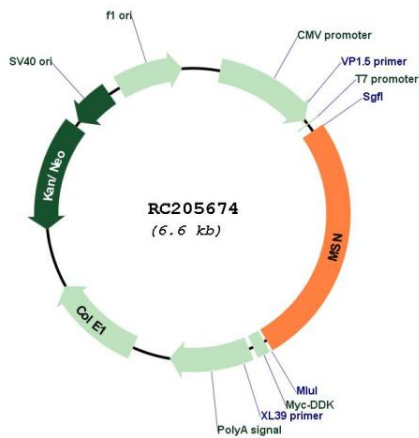
RefSeq Size: 3981 bp

RefSeq ORF: 1734 bp

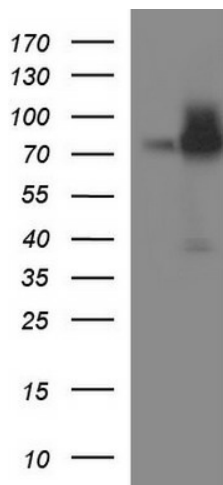
Locus ID: 4478

UniProt ID: [P26038](#)
Cytogenetics: Xq12
Domains: B41, ERM
Protein Families: Druggable Genome
Protein Pathways: Leukocyte transendothelial migration, Regulation of actin cytoskeleton
MW: 67.8 kDa
Gene Summary: Moesin (for membrane-organizing extension spike protein) is a member of the ERM family which includes ezrin and radixin. ERM proteins appear to function as cross-linkers between plasma membranes and actin-based cytoskeletons. Moesin is localized to filopodia and other membranous protrusions that are important for cell-cell recognition and signaling and for cell movement. [provided by RefSeq, Jul 2008]

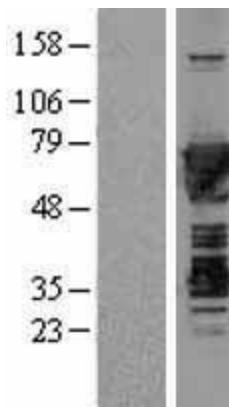
Product images:



Circular map for RC205674



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MSN (Cat# RC205674, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MSN (Cat# [TA590685]). Positive lysates [LY419318] (100ug) and [LC419318] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419318]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205674 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MSN protein (Cat# [TP305674]). The protein was produced from HEK293T cells transfected with MSN cDNA clone (Cat# RC205674) using MegaTran 2.0 (Cat# [TT210002]).