

Product datasheet for **RG205674**

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:	TurboGFP
Symbol:	Moesin
Synonyms:	HEL70; IMD50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG205674 representing NM_002444
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCCATCCAGCCCAACA
 CCACCGGAAGCAGCTATTTGACCAGGTGGTGAAGAACTATTGGCTTGAGGGAAGTTTGGTCTTTGGTCT
 GCAGTACCAGGACACTAAAGTTTCTCCACCTGGCTGAACTCAATAAGAAGGTGACTGCCAGGATGTG
 CGGAAGGAAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGCCAGGAATTGA
 TTCAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAGAGGGCATTCTCAATGATGATTTTACTG
 CCCGCTGAGACCCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCAGCTTCAATAAGGAA
 GTGCATAAGTCTGGCTACCTGGCCGAGACAAGTTGCTCCCGCAGAGAGTCTGGAACAGCACAACTCA
 ACAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGAGGATGC
 TGTCTGGAATATCTGAAGATTGCTCAAGATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAAC
 AAGAAAGGCTCAGAGCTGTGGCTGGGGGTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGAC
 TAACTCCCAAGATAGGCTTCCCCTGGAGTGAATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCAT
 CAAGCCCATTGACAAAAAGCCCCGACTTCGTCTTCTATGCTCCCCGGCTGCGGATTAACAAGCGGATC
 TTGGCCTTGTGCATGGGAACCATGAACTATACATGCGCCGTGCGAAGCCTGATACCATTGAGGTGCAGC
 AGATGAAGGCACAGGCCCGGAGGAGAAGCACCAGAAGCAGATGGAGCGTGCTATGCTGGAAAATGAGAA
 GAAGAAGCGTGAATGGCAGAGAAGGAGAAGAGAAGATTGAACGGGAGAAGGAGGAGCTGATGGAGAGG
 CTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACCCGTAGGGCTCTGG
 AACTTGAGCAGGAACGGAAGCGTGCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAAGAAGCTGA
 AGAGGCCAAGGAGGCCTTGTGTCAGGCCTCCCGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTGAA
 ATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCGACAGAAGAAGGAGAGTGAAGGCTGTGG
 AGTGGCAGCAGAAGGCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCAT
 GAGTACACCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGCAGAGGCT
 AGTGTGACCTACGGCTGATGCTATGGCCAAGGACCGCAGTGAAGGAAACGTACCACTGAGGCAGAGA
 AGAATGAGCGTGTGAGAAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAA
 GAAGACTGCCAATGACATGATCCATGCTGAGAATGCGACTGGGCCGAGACAAATACAAGACCCTGCGC
 CAGATCCGGCAGGCAACACCAAGCAGCGCATTGACGAATTTGAGTCTATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205674 representing NM_002444
 Red=Cloning site Green=Tags(s)

MPKTISVRVTMDAELEFAIQPNTTGKQLFDQVVKTIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDV
 RKESPLLFKFRKFPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPEAVLLASYAVQSKYGFNKE
 VHKSGYLKLLPQRVLEQHKLKNDQWEERIQVWHEEHRGMLREDAVLEYLKIAQDLEMYGVNYFSIKN
 KKGSELWLGVDALGLNIYEQNDRLTPKIGFPWSEIRNISFNKKFVIKPIDKKAPDFVYAPRLRINKRI
 LALCMGNHEL YMRRRKPDTEIVQQMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMER
 LKQIEEQTKKAQQELEEQTRRALELEQERKRAQSEAEKLAKERQEAEEAKEALLQASRDQKKTQEQLALE
 MAELTARISQLEMARQKKESEAVEWQQAQMVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEA
 SADLRADAMADRSEERTTEAEKNERVQKHLKALTSELANARDESCKTANDMIHAENMRLGRDKYKTLR
 QIRQGNTKQRIDEFESM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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.

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

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 RG205674