

Product datasheet for **SC304006**

Mesothelin (MSLN) (NM_013404) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mesothelin (MSLN) (NM_013404) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mesothelin
Synonyms:	MPF; SMRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_013404 edited
 ATGGCCTTGCCAAACGGCTCGACCCTGTTGGGGTCTGTGGGACCCCGCCCTCGGCAGC
 CTCCTGTTCTGCTCTTCAGCCTCGGATGGGTGCAGCCCTCGAGGACCCTGGCTGGAGAG
 ACAGGGCAGGAGGCTGCGCCCTGGACGGAGTCTGGCCAACCCACCTAACATTTCCAGC
 CTCTCCCTCGCCAACTCCTTGGCTTCCCGTGTGCGGAGGTGTCCGGCCTGAGCACGGAG
 CGTGTCCGGGAGCTGGCTGTGGCCTTGGCACAGAAGAATGTCAAGCTCTCAACAGAGCAG
 CTGCGCTGTCTGGCTCACCGGCTCTCTGAGCCCCCGAGGACCTGGACGCCCTCCCATTG
 GACCTGCTGCTATTCTCAACCCAGATGCGTTCTCGGGGCCCCAGGCCTGCACCCGTTTC
 TTCTCCCGCATCACGAAGGCCAATGTGGACCTGCTCCCGAGGGGGGCTCCCGAGCGACAG
 CGGCTGCTGCCTGCGGCTCTGGCCTGCTGGGGTGTGCGGGGGTCTCTGCTGAGCGAGGCT
 GATGTGCGGGCTCTGGGAGGCTGGCTTGCACCTGCCTGGGCGCTTTGTGGCCGAGTCG
 GCCAAGTGTGCTACCCCGGCTGGTGTGCTGCCGGGACCCCTGGACCAGGACCAGCAG
 GAGGCAGCCAGGGCGGCTCTGCAGGGCGGGGACCCCTACGGCCCCCGTGCATATGG
 TCTGTCTCCACGATGGACGCTCTGCGGGGCTGCTGCCCGTGTGGCCAGCCCATCATC
 CGCAGCATCCCGCAGGGCATCGTGGCCGCTGGCGGCAACGCTCCTCTCGGGACCCATCC
 TGGCGGCAGCCTGAACGGACCATCTCCGGCCGCGGTTCCGGCGGGAAGTGGAGAAGACA
 GCCTGTCTTCAGCAAGAAGGCCCGCGAGATAGACGAGAGCCTCATCTTCTACAAGAAG
 TGGGAGCTGGAAGCCTGCGTGGATGCGGCCCTGCTGGCCACCCAGATGGACCGCTGAAC
 GCCATCCCTTACCTACGAGCAGCTGGACGCTCTAAAGCATAAACTGGATGAGCTCTAC
 CCACAAGTTACCCCGAGTCTGTGATCCAGCACCTGGGCTACCTCTTCTCAAGATGAGC
 CCTGAGGACATTCGCAAGTGGAAATGTGACGTCCCTGGAGACCCTGAAGGCTTTGCTTGAA
 GTCAACAAAGGGCACGAAATGAGTCTCAGGCTCCTCGGGGCCCTCCACAGGTGGCC
 ACCCTGATCGACCGCTTTGTGAAGGGAAGGGCCAGCTAGACAAAGACACCCTAGACACC
 CTGACCGCTTCTACCCTGGGTACCTGTGCTCCCTCAGCCCCGAGGAGCTGAGCTCCGTG
 CCCCCAGCAGCATCTGGGCGGTCAGGCCCCAGGACCTGGACACGTGTGACCCAAGGCAG
 CTGGACGCTCTATCCCAAGGCCCGCCTTGCTTCCAGAACATGAACGGGTCCGAATAC
 TTCGTGAAGATCCAGTCTTCTGGGTGGGGCCCCACGGAGGATTTGAAGGCGCTCAGT
 CAGCAGAATGTGAGCATGGACTTGGCCACGTTTATGAAGCTGCGGACGGATGCGGTGCTG
 CCGTTGACTGTGGCTGAGGTGCAGAACTTCTGGGACCCACGTGGAGGGCTGAAGGCG
 GAGGAGCGGCACCGCCCGTGGGGACTGGATCCTACGGCAGCGGACGACCTGGAC
 ACCTGGGGCTGGGGCTACAGGGCGGCATCCCCAACGGCTACCTGGTCTAGACCTCAGC
 ATGCAAGAGGCCCTCTCGGGGACGCCCTGCCTCCTAGGACCTGGACCTGTCTCACCGTC
 CTGGCACTGCTCTAGCTCCACCTGGCCTGA

Restriction Sites: Please inquire

ACCN: NM_013404

Insert Size: 2100 bp

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.

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 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_013404.3](#), [NP_037536.2](#)

RefSeq Size: 2076 bp

RefSeq ORF: 1893 bp

Locus ID: 10232

UniProt ID: [Q13421](#)

Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary:

This gene encodes a preproprotein that is proteolytically processed to generate two protein products, megakaryocyte potentiating factor and mesothelin. Megakaryocyte potentiating factor functions as a cytokine that can stimulate colony formation of bone marrow megakaryocytes. Mesothelin is a glycosylphosphatidylinositol-anchored cell-surface protein that may function as a cell adhesion protein. This protein is overexpressed in epithelial mesotheliomas, ovarian cancers and in specific squamous cell carcinomas. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Transcript Variant: This transcript variant (2) uses an alternate splice site in the coding region, compared to variant 1. Variant 2 encodes isoform 2 which is longer than isoform 1.