

## Product datasheet for **SC328999**

### Mesothelin (MSLN) (NM\_001177355) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mesothelin (MSLN) (NM_001177355) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mesothelin
Synonyms:	MPF; SMRP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC110135 sequence for NM\_005823 edited (data generated by NextGen Sequencing)

```

ATGGCCTTGCCAACGGCTCGACCCCTGTTGGGGTCTGTGGGACCCCGCCCTCGGCAGC
CTCCTGTTCTCTGCTTTTACAGCCTCGGATGGGTGCAGCCCTCGAGGACCCCTGGCTGGAGAG
ACAGGGCAGGAGGCTGCGCCCTGGACGGAGTCTGGCCAACCCACCTAACATTTCCAGC
CTCTCCCCTCGCCAACCTCTTGGCTTCCCGTGTGCGGAGGTGTCCGGCCTGAGCACGGAG
CGTGTCCGGGAGCTGGCTGTGGCCTTGGCACAGAAGAATGTCAAGCTCTAACAGAGCAG
CTGCGCTGTCTGGCTCACCGGCTCTGTAGCCCCCGAGGACCTGGACGCCCTCCCATTTG
GACCTGTGCTATTCTCAACCCAGATGCGTTCTCGGGGCCCCAGGCCTGCACCCGTTTC
TTCTCCCGCATCACGAAGGCCAATGTGGACCTGCTCCCGAGGGGGGCTCCCGAGCGACAG
CGGCTGTGCTGCGGCTCTGGCCTGCTGGGGTGTGCGGGGGTCTCTGCTGAGCGAGGCT
GATGTGCGGGCTCTGGGAGGCCTGGCTTGCACCTGCCTGGGCGCTTTGTGGCCGAGTCG
GCCAAGTGTGCTACCCCGCTGGTGTGCTGCGGGGACCCCTGGACCAGGACCAGCAG
GAGGCAGCCAGGGCGGCTCTGCAGGGCGGGGACCCCTACGGCCCCCGTGCACATGG
TCTGTCTCCACGATGGACGCTCTGCGGGGCTGCTGCCCGTGTGGCCAGCCCATCATC
CGCAGCATCCCGAGGGCATCGTGGCCGCTGGCGGCAACGCTCTCTCGGGACCCATCC
TGGCGGCAGCCTGAACGGACCATCTCCGGCCGCGTTCCGGCGGGAAGTGGAGAAGACA
GCCTGTCTTACAGCAAGAAGGCCCGGAGATAGACGAGAGCCTCATCTTCTACAAGAAG
TGGGAGCTGGAAGCCTGCGTGGATGCGGCCCTGCTGGCCACCCAGATGGACCGCTGAAC
GCCATCCCCTTACCTACGAGCAGCTGGACGCTCTAAAGCATAAACTGGATGAGCTCTAC
CCACAAGTTACCCGAGTCTGTGATCCAGCACCTGGGCTACCTCTTCTCAAGATGAGC
CCTGAGGACATTCGCAAGTGAATGTGACGTCCTCAGGTGGCCACCCTGATCGACCGCTTTGTGAAG
GGAAGGGGCCAGCTAGACAAGACACCCTAGACACCCTGACCGCTTCTACCCTGGGTAC
CTGTGCTCCCTCAGCCCCGAGGAGCTGAGCTCCGTGCCCCAGCAGCATCTGGGCGGTC
AGGCCCCAGGACCTGGACACGTGTACCCAAGGCAGCTGGACGTCCTCTATCCCAAGGCC
CGCCTTGCTTTCCAGAACATGAACGGGTCCGAATACTTCGTGAAGATCCAGTCTTCTG
GGTGGGGCCCCACGGAGGATTTGAAGGCGCTCAGTCAGCAGAATGTGAGCATGGACTTG
GCCACGTTTCAAGCTGCGGACGGATGCGGTGCTGCCGTTGACTGTGGCTGAGGTGCAG
AAACTTCTGGGACCCACGTGGAGGGCTGAAGGCGGAGGAGCGGACCCCGGTCGGG
GACTGGATCTACGGCAGCGGCAGGACGACCTGGACACGCTGGGGCTGGGGCTACAGGGC
GGCATCCCAACGGCTACCTGGTCTAGACCTCAGCATGCAAGAGGCCCTCTCGGGGACG
CCCTGCCTCTAGGACCTGGACCTGTTCTACCGTCTGGCACTGCTCTAGCCTCCACC
CTGGCCTGA
    
```

Clone variation with respect to NM\_005823.5

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_001177355

**Insert Size:** 1869 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001177355.1</a>
<b>RefSeq Size:</b>	2126 bp
<b>RefSeq ORF:</b>	1869 bp
<b>Locus ID:</b>	10232
<b>UniProt ID:</b>	<a href="#">Q13421</a>
<b>Cytogenetics:</b>	16p13.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>MW:</b>	68.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Both variants 1 and 3 encode the same isoform (1).</p>