

Product datasheet for **SC110135**

Mesothelin (MSLN) (NM_005823) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mesothelin (MSLN) (NM_005823) 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 within SC110135 sequence for NM_005823 edited (data generated by NextGen Sequencing)

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ATGGCCTTGCCAACGGCTCGACCCCTGTTGGGGTCTGTGGGACCCCGCCCTCGGCAGC
CTCCTGTTCTGCTCTTCAGCCTCGGATGGGTGCAGCCCTCGAGGACCCCTGGCTGGAGAG
ACAGGGCAGGAGGCTGCGCCCTGGACGGAGTCTGGCCAACCCACCTAACATTTCCAGC
CTCTCCCCTCGCCAACCTCTGGCTTCCCGTGTGCGGAGGTGTCCGGCCTGAGCACGGAG
CGTGTCCGGGAGCTGGCTGTGGCCTTGGCACAGAAGAATGTCAAGCTCTCAACAGAGCAG
CTGCGCTGTCTGGCTCACCGGCTCTGTAGCCCCCGAGGACCTGGACGCCCTCCCATTTG
GACCTGTGCTATTCTCAACCCAGATGCGTTCTCGGGGCCCCAGGCCTGCACCCGTTTC
TTCTCCCGCATCACGAAGGCCAATGTGGACCTGCTCCCGAGGGGGGCTCCCGAGCGACAG
CGGCTGTGCTGCGGCTCTGGCCTGCTGGGGTGTGCGGGGGTCTCTGCTGAGCGAGGCT
GATGTGCGGGCTCTGGGAGGCCTGGCTTGCACCTGCCTGGGCGCTTTGTGGCCGAGTCG
GCCAAGTGTGCTACCCCGCTGGTGTGCTGCCGGGACCCCTGGACCAGGACCAGCAG
GAGGCAGCCAGGGCGGCTCTGCAGGGCGGGGACCCCCCTACGGCCCCCGTGCACATGG
TCTGTCTCCACGATGGACGCTCTGCGGGGCTGCTGCCCGTGTGGCCAGCCCATCATC
CGCAGCATCCCGAGGGCATCGTGGCCGCTGGCGGCAACGCTCCTCTCGGGACCCATCC
TGGCGGCAGCCTGAACGGACCATCTCCGGCCGCGGTTCCGGCGGGAAGTGGAGAAGACA
GCCTGTCTTCAGGCAAGAAGGCCCGGAGATAGACGAGAGCCTCATCTTCTACAAGAAG
TGGGAGCTGGAAGCCTGCGTGGATGCGGCCCTGCTGGCCACCCAGATGGACCGCGTGAAC
GCCATCCCCTTACCTACGAGCAGCTGGACGCTCTAAAGCATAAACTGGATGAGCTCTAC
CCACAAGGTTACCCCGAGTCTGTGATCCAGCACCTGGGCTACCTTCTCAAGATGAGC
CCTGAGGACATTCGAAAGTGAATGTGACGTCCTCAGGTGGCCACCCTGATCGACCGCTTTGTGAA
GTCAACAAAGGGCACGAAATGAGTCTCAGGTGGCCACCCTGATCGACCGCTTTGTGAA
GGAAGGGGCCAGCTAGACAAGACACCCTAGACACCCTGACCGCTTCTACCCCTGGGTAC
CTGTGCTCCCTCAGCCCCGAGGAGCTGAGCTCCGTGCCCCAGCAGCATCTGGGCGGTC
AGGCCCCAGGACCTGGACACGTGTGACCCAAGGCAGCTGGACGTCCTCTATCCCAAGGCC
CGCCTTGCTTTCCAGAACATGAACGGGTCCGAATACTTCGTGAAGATCCAGTCTTCTG
GGTGGGGCCCCACGGAGGATTTGAAGGCGCTCAGTCAGCAGAATGTGAGCATGGACTTG
GCCAGTTCATGAAGCTGCGGACGGATGCGGTGCTGCCGTTGACTGTGGCTGAGGTGCAG
AACTTCTGGGACCCACGTGGAGGGCCTGAAGGCGGAGGAGCGGACCCCGGTGCGG
GACTGGATCCTACGGCAGCGGCAGGACGACCTGGACACGCTGGGGCTGGGGCTACAGGGC
GGCATCCCCAACGGCTACCTGGTCTAGACCTCAGCATGCAAGAGGCCCTCTCGGGGACG
CCCTGCCTCTAGGACCTGGACCTGTTCTACCGTCTGGCACTGCTCCTAGCCTCCACC
CTGGCCTGA
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Clone variation with respect to NM_005823.5

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005823 unedited</p> <pre> CCCCCCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAG CTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTC GGCAGCAGCATGGCCTTGCCAACGGCTCGACCCCTGTTGGGGTCTGTGGGACCCCCGCC CTCGGCAGCCTCCTGTTCTGCTTTCAGCCTCGGATGGGTGCAGCCCTCGAGGACCCTG GCTGGAGAGACAGGGCAGGAGGCTGCCCCCTGGACGGAGTCTGGCCAACCCACCTAAC ATTTCCAGCCTCTCCCTCGCCAACCTTGGCTTCCCGTGTGGGAGGTGTCCGGCCTG AGCACGGAGCGTGTCCGGGAGCTGGCTGTGGCCTTGGCACAGAAGAATGTCAAGCTCTCA ACAGAGCAGCTGCGCTGTCTGGCTCACCGGCTCTCTGAGCCCCCGAGGACCTGGACGCC CTCCATTGGACCTGCTGCTATTCTCAACCCAGATGCGTTCTCGGGGCCCCAGGCCTGC ACCCGTTTCTTCTCCCGCATCACGAAGGCCAATGTGGACCTGCTCCCGAGGGGGGCTCC GAGCGACAGCGGCTGCTGCTGCGGCTCTGGCCTGCTGGGGTGTGCGNGGTCTCTGCTG AGCGAGGTGATGTGCGGGCTCTGGGAGGCTGGCTTGCACCTGCTGGGCGCTTTGTG GCCGAGTNCGCCAAGTGTCTACCCCGGCTGGTGTGAGCTGCCCGGACCCCTGGACCA NGACCAGCANNGAGCANCCAGGGCGCTTCNGGGNGGGGGGGGACCCCCCTACGGCCCC CGTCGACATGGTCTGTCTCCACGATGGACGCTCCTGCGGGGCTGCTNGCCGTGTGGGC CAGCCCATCACCGCAGCATCCCGCAGGGCATCGTGGCCCGCTGGCGGCAACGCTCCTCTC GGGACCATTCTTGGCGCAGCTGAACGA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005823 unedited</p> <pre> GCCTTACGACCCGCGGCCGCAATCTAGAGTCCGAGCCCCCCCCCCCCCCCCCCCCCT TCAACGTGTCTGCAGGGGCATGTTCCCGTTTACTGAGCGGAGTTCTCTTGGGGTGGAA CGGGGACCACCCGTGCCTGCTCCTGGCCAGGCGGGGATCCCCAGCAGGGCTGGGCCAGC AAGGGAGTGGGGCCCTCAGGCCAGGGTGGAGGCTAGGACCAAGTCCAGGACGGTGAANAAC AGGTCCAGGTCTAAGAGGCAGGGCGTCCCGAGAGGGCCTCTTGATGCTGAGGTCTAG GACCAGGTACCCGTTGGGGATGCCGCCCTGTAGCCCCAGCCCCAGCGTGTCCAGGTGCTC CTGCCGCTGCCGTAAGATCCAGTCCCGCACCGGGCGGTGCCGCTCCTCCGCCTTCAGGCC CTCCACGTGGGGTCCAAAAGTTTCTGCACCTCAGCCACAGTCAACGGCAGCACCGCATC CAATCCTCCGTGGGGGCCCCACCCAGGAAGGACTGGATCTTACGAAGTATTCGGACCC GTTTATGTTCTGGAAGCAAGGCGGGCCTTGGGATAAAGGACGTCCAGCTGCCTTGGGTC ACACGTGTCCAGTCTTGGGGCTGACCGCCAAATGCTGCTGGGGGACGGAACCTCAT CTCCTCGGGGCTGAGGAGCACAGGTACCCAGGGTAAAAAGCGGTCAAGGTGTCCAAGGT GTCTTTTCTAACTGCCCCCTTA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005823
Insert Size:	2400 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).
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:	<ol style="list-style-type: none">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_005823.4 , NP_005814.2
RefSeq Size:	2052 bp
RefSeq ORF:	1869 bp
Locus ID:	10232
UniProt ID:	Q13421
Cytogenetics:	16p13.3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	<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 (1) represents the predominant transcript and encodes isoform 1. Both variants 1 and 3 encode the same isoform isoform (1).</p>