

Product datasheet for **RG202532**

Mesothelin (MSLN) (NM_005823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mesothelin (MSLN) (NM_005823) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mesothelin
Synonyms:	MPF; SMRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202532 representing NM_005823
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTGCCAACGGCTCGACCCTGTTGGGTCTGTGGGACCCCGCCTCGGCAGCCTCTGTTC
 TGCTTTCAGCCTCGGATGGGTGCAGCCCTCGAGGACCCTGGCTGGAGAGACAGGGCAGGCTGCACCCT
 GGACGGAGTCTGGCCAACCCACCTAACATTTCCAGCCTCTCCCTCGCCAACCTCTGGCTTCCCGTGT
 GCGGAGGTGTCCGGCCTGAGCACGGAGCGTGTCCGGGAGCTGGCTGTGGCCTTGCCACAGAAGAATGTCA
 AGCTCTCAACAGAGCAGCTGCGCTGTCTGGCTCACCGCTCTCTGAGCCCCGAGGACCTGGACGCCCT
 CCCATTGGACCTGCTGCTATTCTCAACCCAGATGCGTTCTCGGGCCCCAGGCCGCACCCGTTTCTTC
 TCCCGCATCACGAAGGCCAATGTGGACCTGCTCCGAGGGGGCTCCGAGCGACAGCGGCTGTGCCTG
 CGGCTCTGGCCTGCTGGGTGTGCGGGGTCTCTGCTGAGCGAGGCTGATGTGCGGGCTCTGGGAGCCT
 GGCTTGCAGCTGCTGGCGCTTGTGGCCGAGTCGGCCGAAGTCTGCTACCCCGCTGTTGAGCTGC
 CCGGACCCCTGGACCAGGACCAGCAGGAGGCAGCCAGGGCGGCTCTGCAGGGCGGGGACCCCTACG
 GCCCCCGTGCAGATGGTCTGTCTCCACGATGGACGCTCTGCGGGCCTGCTGCCGTGCTGGGCCAGCC
 CATCATCCGACGATCCCGCAGGCATCGTGGCCGCTGGCGGCAACGCTCTCTCGGGACCCATCCTGG
 CGGCAGCTGAACGGACCATCCTCCGGCCGCGTTCCGGCGGGAAGTGGAGAAGACAGCCTGTCTTCAG
 GCAAGAAGGCCCGCGAGATAGACGAGAGCCTCATCTTCTACAAGAAGTGGGAGCTGGAAGCCTGCGTGA
 TGCGGCCCTGTGGCCACCCAGATGGACCGCTGAACGCCATCCCTTACCTACGAGCAGCTGGACGTC
 CTAAGCATAAACTGGATGAGCTCTACCCACAAGTTACCCGAGTCTGTGATCCAGCACCCTGGGCTACC
 TCTTCTCAAGATGAGCCCTGAGGACATTCGCAAGTGAATGTGACGTCCTGGAGACCTGAAGGCTTT
 GCTTGAAGTCAACAAAGGGCACGAAATGAGTCTCAGGTGGCCACCCTGATCGACCCTTTGTGAAGGGA
 AGGGGCCAGCTAGACAAAGACACCCTAGACACCCTGACCGCTTCTACCTGGGTACCTGTGCTCCCTCA
 GCCCGAGGAGCTGAGCTCCGTGCCCCAGCAGCATCTGGCGGTGAGGCCAGGACCTGGACACGTG
 TGACCCAAAGCAGCTGGACGCTCTATCCCAAGGCCGCTTGTCTTCCAGAACATGAACGGTCCGAA
 TACTTCGTGAAGATCCAGTCTTCTGGTGGGGCCCCACGGAGGATTTGAAGGCGCTCAGTCAGCAGA
 ATGTGAGCATGGACTGGCCACGTTTATGAAGTGGGACGGATGCGGTGCTGCCGTTGACTGTGGCTGA
 GGTGCAGAACTTCTGGACCCACGTGGAGGGCTGAAGGCGGAGGAGCGGCACCGCCGTTGCGGGAC
 TGGATCTACGGCAGCGCAGGACGACCTGGACACGCTGGGGCTGGGGCTACAGGGCGGCATCCCCAACG
 GCTACCTGGTCTAGACCTCAGCGTGAAGAGGCCCTCTCGGGGACGCCCTGCCTCTAGGACCTGGACC
 GTTCTCACCGTCTGGCACTGCTCTAGCCTCCACCCTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG202532 representing NM_005823
 Red=Cloning site Green=Tags(s)

MALPTARPLLGSCGTPALGSLFLFLSLGWVQPSRTLGETGQAAPLDGVLNPPNISSLSPRQLLGFPC
 AEVSLSTERVRELAVALAQKNVKLSTELRCLAHRLSEPPEDLDALPLDLLFLNPDASFSGPQACTRFF
 SRITKANVDLLPRGAPERQRLPAALACWVGRSLLSEADVRALGGLACDLPGRFVAESAELLPRLVSC
 PGPLDQDQEAARAALQGGPPYGPSTWSVSTMDALRGLLPVLGQPIIRSIPQGIWAARQRSSRDP
 RQPERTILRPRFRREVEKTACPSGKKAREIDESLIFYKKWELEACVDAALLATQMDRVNAIPFTYQLDV
 LKHKLDELYPQGYPESVIQHLGYLFLKMSPEDIRKWNVTSLKALLEVNKGHEMSPQVATLIDRFVKG
 RGQLDKDLDLTAIFYPYGLCSLSPEELSSVPPSSIWAVRPQDLDTCDPRQLDVLVYPKARLAFQNMNGSE
 YFVKIQSFLGGAPTEDLKALSQQNVSMDLATFMKLRDVAVLPLTVAEVQKLLGPHVEGLKAEERHRPVRD
 WILRQRQDDLDTLGLGLQGGIPNGYLVLDLSVQEALSGTPCLLGGPVLTVLALLLASTLA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005823

ORF Size: 1863 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_005823.4](#), [NP_005814.2](#)

RefSeq Size: 2052 bp

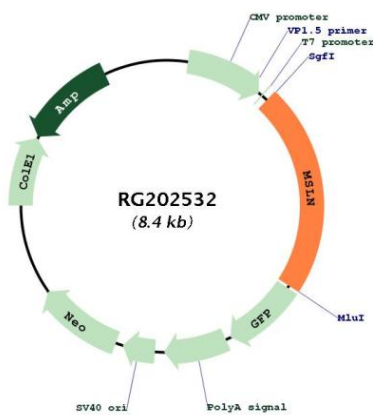
RefSeq ORF: 1869 bp

Locus ID: 10232

UniProt ID: [Q13421](#)

Cytogenetics:	16p13.3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	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]

Product images:



Circular map for RG202532