

Product datasheet for **RG224287**

MASPIN (SERPINB5) (NM_002639) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MASPIN (SERPINB5) (NM_002639) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MASPIN
Synonyms:	maspin; PI5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224287 representing NM_002639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGCCCTGCAACTAGCAAATTCGGCTTTTGCCGTTGATCTGTTCAAACAACATGTGAAAAGGAGC
CACTGGGCAATGTCCTTCTCTCCAATCTGTCTCTCCACCTCTGTCACTTGTCAAGTGGGTGCTAA
AGGTGACACTGCAAATGAAATTGGACAGGTTCTTCATTTTAAAAATGTCAAAGATATACCCTTTGGATTT
CAAACAGTAACATCGGATGTAACAACAACTTAGTTCCTTTTACTCACTGAAACTAATCAAGCGGCTCTACG
TAGACAAATCTCTGAATCTTTCTACAGAGTTCATCAGCTCTACGAAGAGACCCCTATGCAAAGGAATTGGA
AACTGTTGACTTCAAAGATAAATTGGAAGAAACGAAAGGTCAGATCAACAACCTCAATTAAGGATCTCACA
GATGGCCACTTTGAGAACATTTAGCTGACAACAGTGTGAACGACCAGACCAAAATCCTTGTGGTTAATG
CTGCCTACTTTGTTGGCAAGTGGATGAAGAAATTTCTGAATCAGAAAACAAAAGAATGTCCTTTTCAGACT
CAACAAGACAGACACCAACCAGTGCAGATGATGAACATGGAGGCCACGTTCTGTATGGGAAACATTGAC
AGTATCAATTGTAAGATCATAGAGCTTCCTTTTCAAAATAAGCATCTCAGCATGTTTCATCTACTACCCA
AGGATGTGGAGGATGAGTCCACAGGCTTGAGAAGATTGAAAAACAACCTCAACTCAGAGTCACTGTCACA
GTGGACTAATCCCAGCACCATGGCCAATGCCAAGTCAAACCTCCATTCCAAAATTTAAGGTGAAAAAG
ATGATTGATCCCAAGGCTTGTCTGGAAAATCTAGGGCTGAAACATCTTCAGTGAAGACACATCTGATT
TCTCTGGAATGTGAGAGACCAAGGGAGTGGCCCTATCAAATGTTATCCACAAAGTGTGCTTAGAAAATAAC
TGAAGATGGTGGGATTCCATAGAGGTGCCAGGAGCACGGATCCTGCAGCACAAGGATGAATTGAATGCT
GACCATCCCTTTATTTACATCATCAGGCACAACAAAACCTGAAACATCATTTTCTTTGGCAAATTCGTT
CTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224287 representing NM_002639
Red=Cloning site Green=Tags(s)

MDALQLANSFAVDL FKQLCEKEPLGNVLFSPICLSTSLSLAQVGAKGDTANEIGQVLHFENVKDIPFGF
 QTVTSDVNKLSSFYSLKLIKRL YVDKSLNLSTEFISSTKRPYAKELETVDKDKLEETKGGQINNSIKDLT
 DGHFENILADNSVNDQTKILVNAAAYFVGKWMKKFPESETKECPFRLNKTDTKPVQMMNMEATFCMGNID
 SINCKIIELPFQNKHLSMFILLPKDVEDESTGLEKIEKQLNSELSQWTPSTMANAKVKLSIPKFKVEK
 MIDPKACLENLGLKHIFSEDTSDFSGMSETKGVALSNIHKVCLEITEDGGDSIEVPGARILQHKDELNA
 DHPFIYIIRHNKTRNIIFFGKFCSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002639

ORF Size: 1125 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_002639.3](#)

RefSeq Size: 2558 bp

RefSeq ORF: 1128 bp

Locus ID: 5268

UniProt ID: [P36952](#)

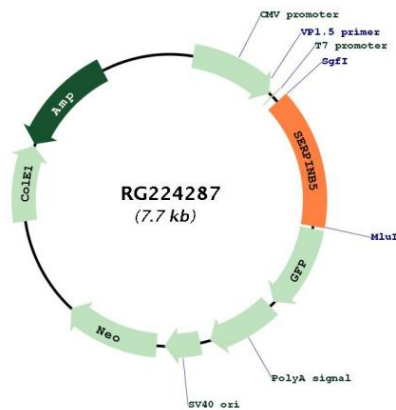
Cytogenetics: 18q21.33

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: p53 signaling pathway

Gene Summary: Tumor suppressor. It blocks the growth, invasion, and metastatic properties of mammary tumors. As it does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, it exhibits no serine protease inhibitory activity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224287