

Product datasheet for **SC109431**

MEST (NM_177525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEST (NM_177525) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEST
Synonyms:	PEG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109431 sequence for NM_177525 edited (data generated by NextGen Sequencing)

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ATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCGTACCTG
CACATCCCACCCCTCAGCTCTCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTT
TCACTTACAAGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCA
GAGATAGTTGTGCTTTTACACGGTTTTCCAACATCCAGCTACGACTGGTACAAGATTTGG
GAAGGTCTGACCTTGAGGTTTCATCGGGTGATTGCCCTTGATTTCTTAGGCTTTGGCTTC
AGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCATCGTGGAAAGCG
CTTTTGCGGCATCTGGGGCTCCAGAACCGCAGGATCAACCTTCTTTCTCATGACTATGGA
GATATTGTTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTGGCTTACC
ATAAAGAGTCTGTCTGTCAAATGGAGGTATCTTTCTGAGACTCACCGTCCACTCCTT
CTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTACCCATCCTCACACGACTGATGAAC
TTCTTTGTATTCTCTCGAGGTCTCACCCAGTCTTTGGGCCGTATACTCGGCCCTCTGAG
AGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATGACGGGAACCTAGTCATTGAC
AGTCTCTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGCTCTT
GCCTCTGTAACATCCCCATTATTTTATCTATGGGCCATTGGATCCTGTAATCCCTAT
CCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCCGGTCCACAGTGTGCGATTCTGGAT
GACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATG
GGCTTCATCAACTCCTTCTGA
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Clone variation with respect to NM_177525.1



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_177525 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTGTAGGCAAGGTCTTAC CTGAATCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGC TGCGTACTGCACATCCCACCCCTCAGCTCTCCCCTGCCCTTCACTCATGGAAGTCTTC AGGCAAGTTTTTCACTTACAAGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGT TGAAGTCCAGAGATAGTTGTGCTTTTACACGGTTTTCCAACATCCAGCTACGACTGGTA CAAGATTTGGGAAGTCTGACCTTGAGGTTTCATCGGGTGATTGCCCTTGATTTCTTAGG CTTTGGCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCAT CGTGGAAGCGCTTTTGGCGCATCTGGGGCTCCAGAACCGCAGGATCAACCTTCTTTCTCA TGACTATGGAGATATTGTTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGG TCGGCTTACCATAAAGAGTCTCTGTCTGTCAAATGGAGGTATCTTTCTGAGACTCACCG TCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTCACCCATCCTCACACG ACTGATGAACTTCTTTGATTCTCTCGAGGTCTACCCAGTCTTTGGGCCGTATACTCG GCCCTCTGAGAGTGAAGTGTGGGACATGGGGCAGGGATCCGCAACAATGACGGGAAGT AGTCATTGACAGTCTTACAGTACATCAATCAGAGGAAGAAAGTCAGAAGGCGCTNGGT GGGAGCTCTTGCCTCTGNNACTATCCCATTCATTTTATCTATGGCCATTGGATCCTGTA ACTCCCTATNCANAGTTTGGNAGCTGACAGAAAACGCTGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_177525
Insert Size:	2800 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:	<u>NM_177525.1</u> , <u>NP_803491.1</u>
RefSeq Size:	2419 bp
RefSeq ORF:	981 bp
Locus ID:	4232
UniProt ID:	<u>Q5EB52</u>
Cytogenetics:	7q32.2
Protein Families:	Protease, Transmembrane

Gene Summary:

This gene encodes a member of the alpha/beta hydrolase superfamily. It is imprinted, exhibiting preferential expression from the paternal allele in fetal tissues, and isoform-specific imprinting in lymphocytes. The loss of imprinting of this gene has been linked to certain types of cancer and may be due to promotor switching. The encoded protein may play a role in development. Alternatively spliced transcript variants encoding multiple isoforms have been identified for this gene. Pseudogenes of this gene are located on the short arm of chromosomes 3 and 4, and the long arm of chromosomes 6 and 15. [provided by RefSeq, Dec 2011]

Transcript Variant: This variant (3) differs in the 5' UTR and initiates translation at a downstream, in-frame start codon, compared to variant 1. Variants 2 and 3 encode the same isoform (b), which has a shorter N-terminus compared to isoform a. This isoform (b) is biallelically expressed.