

Product datasheet for RC219273

MEST (NM_177525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEST (NM_177525) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEST
Synonyms:	PEG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219273 representing NM_177525 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCGTACCTGCACATCCCAC
CCCCTCAGCTCTCCCCTGCCCTCACTCATGGAAGTCTTCAGGCAAGTTTTTCACCTACAAGGGACTGCG
TATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTACACGTTTTCCA
ACATCCAGCTACGACTGGTACAAGATTTGGGAAGGTCTGACCTTGAGTTTCATCGGGTGATTGCCCTTG
ATTTCTTAGGCTTTGGCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCAT
CGTGGAAGCGCTTTTGCAGCATCTGGGGCTCCAGAACCGCAGGATCAACCTCTTTCTCATGACTATGGA
GATATTGTTGCTCAGGAGCTTCTCTACAGTACAAGCAGAATCGATCTGGTCGGCTTACCATAAAGATC
TCTGTCTGCAAAATGGAGGTATCTTTCCTGAGACTCACCGTCCACTCCTTCTCCAAAAGCTACTCAAAGA
TGGAGGTGTGCTGTACCCATCCTCACACGACTGATGAACTTCTTTGATTTCTCTCGAGGTCTACCCCCA
GTCTTTGGGCCGTATACTCGCCCTCTGAGAGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATG
ACGGGAACCTTAGTCATTGACAGTCTCTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGT
GGGAGCTCTTGCCTCTGTAACATCCCCATTATTTATCTATGGGCCATTGGATCCTGTAATCCCTAT
CCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCCGGTCCACAGTGTGATTCGATTCGATGACCACATTA
GCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219273 representing NM_177525
Red=Cloning site Green=Tags(s)

MREWWVQVGLLAVPLLAAYLHIPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLLHGFP
 TSSYDWYKIWEGLTLRFHRVIALDFLGFSDKPRPHYSIFEQASIVEALLRHLGLQNRRLNLLSHDYG
 DIVAQELLYRYKQNRSGRLTIKSLCLSNGGIFPETHRPLLLQKLLKGGVLSPILTRLMNFFVFSRGLTP
 VFGPYTRPSESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVWALASVTIPIHFYIGPLDPVNPY
 PEFLLEYRKTLPSTVSI LDDHISHYPQLEDPMGFLNAYMGFINSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177525

ORF Size: 978 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_177525.2](#)

RefSeq Size: 2419 bp

RefSeq ORF: 981 bp

Locus ID: 4232

UniProt ID: [Q5EB52](#)

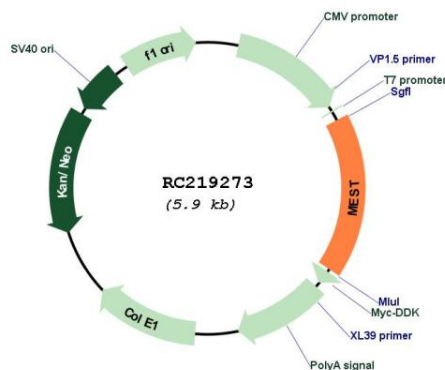
Cytogenetics: 7q32.2

Protein Families: Protease, Transmembrane

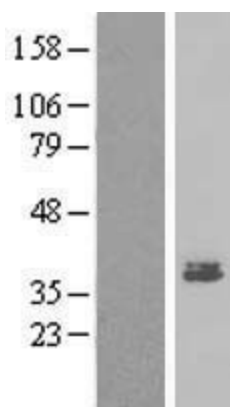
MW: 37.4 kDa

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]

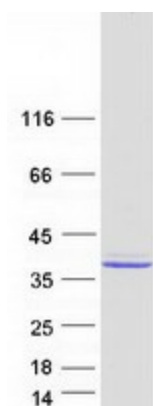
Product images:



Circular map for RC219273



Western blot validation of overexpression lysate (Cat# [LY406095]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219273 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MEST protein (Cat# [TP319273]). The protein was produced from HEK293T cells transfected with MEST cDNA clone (Cat# RC219273) using MegaTran 2.0 (Cat# [TT210002]).