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Product datasheet for RC233751

MEST (NM_001253900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEST (NM_001253900) 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:

>RC233751 representing NM_001253900
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCGCCGAGATCGCCTCCGCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCC
TGCTTGCTGCGTACCTGCACATCCCACCCCCTCAGCTCTCCCCTGCCCTTCACTCATGGAAGTCTTCAGA
CTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACACGGTTTTCCAACATCCAGCTACGAC
TGGTACAAGATTTGGGAAGGTCTGACCTTGAGGTTTCATCGGGTGATTGCCCTTGATTTCTTAGGCTTTG
GCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCATCGTGGAAGCGCTTTT
GCGGCATCTGGGGCTCCAGAACCGCAGGATCAACCTTCTTTCTCATGACTATGGAGATATTGTTGCTCAG
GAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTCGGCTTACCATAAAGAGTCTCTGTCTGTCAAATG
GAGGTATCTTTCCTGAGACTCACCGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTC
ACCCATCCTCACACGACTGATGAACTTCTTTGTATTCTCTCGAGGTCTCACCCCAGTCTTTGGGCCGTAT
ACTCGGCCCTCTGAGAGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATGACGGGAACTTAGTCA
TTGACAGTCTCTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGCTCTTGCCTC
TGTAACTATCCCCATTCATTTTATCTATGGGCCATTGGATCCTGTAAATCCCTATCCAGAGTTTTTGGAG
CTGTACAGGAAAACGCTGCCGCGGTCCACAGTGTCGATTCTGGATGACCACATTAGCCACTATCCACAGC
TAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

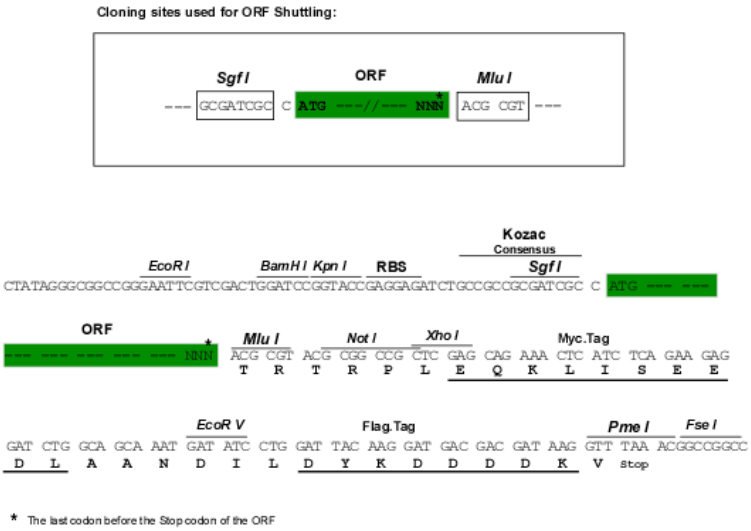
>RC233751 representing NM_001253900
Red=Cloning site Green=Tags(s)

MVRRDRLRRMREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSDSVGVVGSPEIVVLLHGFPTSSYD
WYKIWEGLTLRFHRVIALDFLGFGFSDKPRPHHYSIFEQASIVEALLRHLGLQNRRINLLSHDYGDIVAQ
ELLYRYKQNRSGRLTIKSLCLSNGGIFPETHRPLLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPY
TRPSESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLE
LYRKTLPRSTVSILDDHISHYPQLEDPMGFLNAYMGFINSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001253900

ORF Size: 963 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_001253900.1, NP_001240829.1

RefSeq Size: 2471 bp

RefSeq ORF: 966 bp

Locus ID: 4232

UniProt ID: Q5EB52

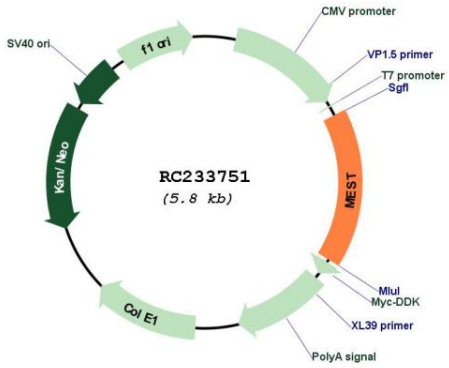
Cytogenetics: 7q32.2

Protein Families: Protease, Transmembrane

MW: 37.5 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 RC233751