

## Product datasheet for **RG200615**

### MEST (NM\_002402) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MEST (NM\_002402) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MEST  
**Synonyms:** PEG1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200615 representing NM\_002402  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCGCCGAGATCGCCTCCGCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCC  
TGCTTGCTGCGTACCTGCACATCCCACCCCTCAGCTCTCCCCTGCCCTCACTCATGGAAGTCTTCAGG  
CAAGTTTTCTACTACAAGGGACTGCGTATCTTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCAGAG  
ATAGTTGTGCTTTACACGGTTTTCCAACATCCAGCTACGACTGGTACAAGATTTGGGAAGTCTGACCT  
TGAGGTTTCATCGGGTATTGCCCTTGATTTCTTAGGCTTTGGCTTCAGTGACAAACCGAGACCACATCA  
CTATTCATATTTGAGCAGGCCAGCATCGTGGAAGCGCTTTTGCGCATCTGGGGCTCCAGAACCGCAGG  
ATCAACCTTTCTCATGACTATGGAGATATTGTTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATC  
GATCTGGTCCGGCTTACCATAAAGAGTCTCTGTCTGTCAAATGGAGGTATCTTTCTGAGACTCACCGTCC  
ACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTACCCATCCTCACACGACTGATGAACTTC  
TTTGTATTCTCTCGAGGTCTCACCCAGTCTTTGGGCCGTATACTCGGCCCTCTGAGAGTGTGGG  
ACATGTGGGCAGGGATCCGCAACAATGACGGGAAGTATGTCATTGACAGTCTCTTACAGTACATCAATCA  
GAGGAAGAAGTTCAGAAGCGCTGGGTGGGAGCTCTTGCCTCTGTAACATATCCCCATTATTTTATCTAT  
GGGCCATTGGATCCTGTAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCGCGGTCCA  
CAGTGTGATTCTGGATGACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGC  
ATATATGGGCTTCATCAACTCCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG200615 representing NM\_002402  
Red=Cloning site Green=Tags(s)

```
MVRRDRLRRMREWWVQVGLLAVPLLAAYLHIPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPE
IVVLLHGFP TSSYDWKIWEGLTLRFHRVIALDFLGFSDKPRPHYSIFEQASIVEALLRHLGLQNR
INLLSHDYGDIVAQELLRYKQNRSGRLTIKSLCLNNGGIFPETHRPLLQKLLKGGVLSPILTRLMNF
FVFSRGLTPVFGPYTRPSESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVWVWVWVWVWVWV
GPLDPVNPYEFLELYRKTLPRSTVSIILDDHISHYPQLEDPMGFLNAYMGFINSF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002402

**ORF Size:** 1005 bp

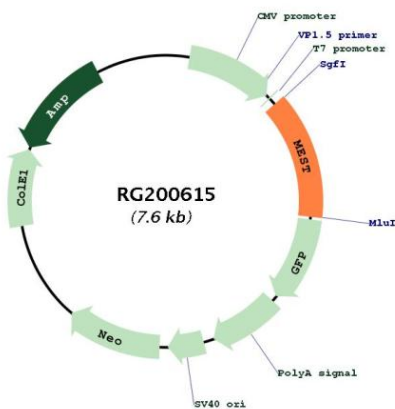
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_002402.4</a>
RefSeq Size:	2507 bp
RefSeq ORF:	1008 bp
Locus ID:	4232
UniProt ID:	<a href="#">Q5EB52</a>
Cytogenetics:	7q32.2
Domains:	abhydrolase
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]

## Product images:



Circular map for RG200615