

## Product datasheet for **SC321311**

### **MEST (NM\_002402) Human Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | MEST (NM_002402) Human Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | MEST                                  |
| Synonyms:                 | PEG1                                  |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-AC (PS100020)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                |



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002402.2  
 CAGCACACCCCGGCACCTCTCTGCGGCAGCTGCGCCTCGCAAGCGCAGTGCCGCGAGCGC  
 ACGCCGGAGTGGCTGTAGCTGCCCGGCGCGCGCCCGCTGCGCGGGCTGTGGGCTGCGG  
 GCTGCGCCCCGCTGCTGGCCAGCTCTGCACGGCTGCGGGCTCTGCGGCGCCCGGTGCTC  
 TGCAACGCTGCGGCGGGCGGCATGGGATAACGCGGCCATGGTGCGCCGAGATCGCCTCCG  
 CAGGTAGAGGGAGTGGTGGTCCAGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCCTA  
 CCTGCACATCCCACCCCTCAGTCTCCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAA  
 GTTTTTCACTTACAAGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAG  
 TCCAGAGATAGTTGTGCTTTTACACGGTTTTTCCACATCCAGCTACGACTGGTACAAGAT  
 TTGGGAAGGTCTGACCTTGAGGTTTCATCGGGTATTGCCCTTGATTTCTTAGGCTTTGG  
 CTTCAAGTACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCATCGTGGA  
 AGCGCTTTTGGCGCATCTGGGGCTCCAGAACCAGGATCAACCTTTCTTCTCATGACTA  
 TGGAGATATTGTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTCGGCT  
 TACCATAAAGAGTCTCTGTCTGCAAAATGGAGGTATCTTCTGAGACTACCGTCCACT  
 CCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTACCCATCCTCACACGACTGAT  
 GAATTCTTTGTATTCTCTCGAGGTCTACCCAGTCTTTGGGCCGTATACTCGGCCCTC  
 TGAGAGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATGACGGGAACCTAGTCAT  
 TGACAGTCTTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGC  
 TCTTGCCTCTGTAACATCCCCATTTTATCTATGGGCCATTGGATCCTGTAATCC  
 CTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCGCGTCCACAGTGTGATTCT  
 GGATGACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTGAATGCATA  
 TATGGGCTTCACTCACTCTTCTGAGCTGAAAAGAGTAGCTTCCCTGTATTACCTCCCCT  
 ACTCCCTTATGTGTTGTGTTTCCACTTAGGAAGAAATGCCAAAAGAGGCTCTGGCCAT  
 CAAACATAAATCTCTCACAAAGTCCACTTACTCAAATGGTGAACAGTGTATAGGAAGA  
 AGCCAGCAGGAGCTCTGACTAAGGTTGACATAAAGTCCACCTCCATTACTTTGATATC  
 TGATCAAATGTATAGACTTGGCTTTGTTTTTGTGCTATTAGGAAATCTGATGAGCATT  
 ACTATTCACTGATGCAGAAAGACGTTCTTTTGCATAAAAGACTTTTTTTTAACTTTGG  
 ACTTCTCTGAAATATTTAGAAGTCTAATTTCTGGCCACCCCAACAGGAATCTATAG  
 TAAGGAGGAGGAGAAGGGGGCTCCTTCCCTCCTCGAATGACGTTATGGGCACATGCC  
 TTTTAAAAGTTCTTAAAGCAACACAGAGCTGAGTCTCTTGTGCATACCTTTGGATTAG  
 TGTTTCATCAGCTGTTTTAGTTATAAACATTTTGTAAAATAGATATTGTTTAAATGA  
 TACAGTATTTTAGGTATGATTTAAGACTATGATTTACCTATACATTATATATTTTATA  
 AAGATACTAAACCAGCATACCCTTACTCTGCCAGAGTAGTGAAGCTAATTAACACGTTT  
 GGTTTTCTGAATAAATGAACTAAATCCAACTATTTCTAAAATCACAGGACATTAAGGA  
 CCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTGGGAAGACCAATTCTAACAGCA  
 AATAACAGTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTTGTGAGCTACA  
 GTAGAGGGGAAGGGATTGTTGTGTAGTCAAGTCAACATGCTGAATGTACACTGATTCCT  
 TATGATGACTGCTTAACTCCCCTGCTGTCCAGAGAGGCTTCCAATGTAGCTCAGT  
 AATTCCTGTTACTTTACAGACAGGAAAGTCCAGAACTTTAAGAACAACCTCTGAAAGA  
 CCTATGAGCAAAATGGTGTGAATACTTTTTTTTTTAAAGCCACATTTTATTGCTTATGCA  
 AAGCAGGATTATTAAGTATTATTTAAAATTCGTTTTTTTAAATAGCAACTTCAAGTAT  
 AACAACTTTGAACTGGAATAAGTGTATTTTCTATTAATAAAAATGAATTGTGACAAA  
 AA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002402

**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).

|                               |  |
|-------------------------------|--|
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <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>  |
| <b>RefSeq:</b>                | <a href="#">NM_002402.2</a> , <a href="#">NP_002393.2</a>  |
| <b>RefSeq Size:</b>           | 2507 bp  |
| <b>RefSeq ORF:</b>            | 1008 bp  |
| <b>Locus ID:</b>              | 4232   |
| <b>UniProt ID:</b>            | <a href="#">Q5EB52</a>   |
| <b>Cytogenetics:</b>          | 7q32.2   |
| <b>Domains:</b>               | abhydrolase  |
| <b>Protein Families:</b>      | Protease, Transmembrane  |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). This isoform (a) is imprinted and expressed only from the paternal allele.</p> |