

## Product datasheet for **SC105144**

### MEG3 (AK057522) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEG3 (AK057522) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEG3
Synonyms:	FP504; GTL2; LINC00023; NCRNA00023; onco-lncRNA-83; prebp1; PRO0518; PRO2160
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK057522, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCAGGACGAATAATTTATGGTCAGTGAAAAATCCAGGCCCCAGTGAGATTCGAGTGGGCTGTA  
CGAGAGTCCTGCTCCCAGTGAGTAATGGTAGTGAATGTTTCTGTCACTTTTTGCAACCGTCCATT  
GATCCTCACAACCTCCTGTCTGAGCCAGGACCGGCCACTGCCACTCCCAGGAAACAGAGGCTGT  
CAAGAGGCTCCACAGATTGGGCCCCACTGGATCATTGAACCCCTGTTCCCTGAGTTCTAGAGGA  
AAGATTGTACTGTCTCAGTCCCGCCACCTCCAGAAGGCCTCCCTCTGCATTTCTGACTTTGCT  
GTGCCGGCAGCCTGGAGCCTCCCAGGTCCTGTCATCTTTCTAGCCACTACAGTCTCTGTCTTT  
CCTTTCACAGCCAAGCTTCTTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK057522 unedited TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGATTATGTGGCAAAT GGAGGTGCAAGGATGACTTGGACGGTGACAAATGAAGTGGGCGGAGACCTGCTTTGAGTT AATCCAGGCTATTAGGAGGGGACCTTTTGTCTCCAGAGACTGGCAGGAGCTTTTACCAG TGGTTTTTACATCCTTAATGTTCCAGGACGAATAATTTATGGTCAGTAAAAATCCAGGCC CAGTGAGATTCGAGTGGGCTGAAAAATCGAGAGTCCCTGCTCCCAGTGAGTAATGGTAGTG AATGTTTTCTGCACTTTTTGCAACCGTCCATTTGATCCTCACAACCTCCCTGTCTG AGCCAGGACCGGCCACTGCCACTCCAGGAAACAGAGGCTGTCAAGAGGCTCCACAGAT TGGGCCCCACTGGATCATTGAACCCCTGTTCCCTGAGTCTAGAGGAAGAATTGTACCTG TCTCAGTCCCGCCACCTCCAGAAGGCCTCCCTCTGCATTTCTGACTTTGCTGTGCCGGC AGCCTGGAGCCTCCAGGTCCCTGCTGTATCTTTCTAGCCACTACAGTCTCTGTCTTT CCTTTACAGCCAAGCTTCTTGAAGGCCTGTCTACACTTGCTGTCTTCTTCTCACCT CCAATTTCTCTCAACCCACTGCTTCTGACTCGCTCTACTCCGTGGAAGCACGCTCAC AAGGCACGTGGGCGTAGCCCGGCTGGNGTCGCTGAANAACTGCGATGGAAGCTGNGAA GAAGCCCTGATGGGGCCACCTCCCGACCCAGTCTTCTTCTGGNCGGCCTCTCGTCTCT TTCTGTTGGGGCGAGCCATCCCTGGATGGCTCGTGGNAAGGACTCGATGTGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK057522
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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>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="#">AK057522.1</a> , <a href="#">BAB71519.1</a>
<b>RefSeq Size:</b>	1726 bp
<b>RefSeq ORF:</b>	426 bp
<b>Locus ID:</b>	55384
<b>Cytogenetics:</b>	14q32.2

**Gene Summary:**

This gene is a maternally expressed imprinted gene. Multiple alternatively spliced transcript variants have been transcribed from this gene and all of them are long non-coding RNAs (lncRNAs). This gene is expressed in many normal tissues, but its expression is lost in multiple cancer cell lines of various tissue origins. It inhibits tumor cell proliferation in vitro. It also interacts with the tumor suppressor p53, and regulates p53 target gene expression. Its deletion enhances angiogenesis in vivo. Many experimental evidences demonstrate that this gene is a lncRNA tumor suppressor. [provided by RefSeq, Mar 2012]