

## Product datasheet for **SC303561**

### MECOM (NM\_004991) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MECOM (NM_004991) Human Untagged Clone
Tag:	Tag Free
Symbol:	MECOM
Synonyms:	AML1-EVI-1; EVI1; KMT8E; MDS1; MDS1-EVI1; PRDM3; RUSAT2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004991, the custom clone sequence may differ by one or more nucleotides

```

ATGAGATCCAAAGGCAGGGCAAGGAAACTGGCCACAAAT AATGAGTGTGTATATGGCAAC
TACCCTGAAATACCTTTGGAAGAAATGCCAGATGCAGATGGAGTAGCCAGCACTCCCTCC
CTCAATATTCAAGAGCCATGCTCTCCTGCCACATCCAGTGAAGCATTCACTCCAAAGGAG
GGTTCTCCTTACAAGCCCCATCTACATCCCTGATGATATCCCCATTCTGCTGAGTTT
GAACCTCGAGAGTCAAATATGCCTGGGGCAGGACTAGGAATATGGACAAAAGGAAGATC
GAAGTAGGTGAAAAGTTTGGGCCTTATGTGGGAGAGCAGAGGTCAAACCTGAAAGACCCC
AGTTATGGATGGGAGATCTTAGACGAATTTACAATGTGAAGTTCTGCATAGATGCCAGT
CAACCAGATGTTGGAAGCTGGCTCAAGTACATTAGATTGCTGGCTGTTATGATCAGCAC
AACCTTGTTCATGCCAGATAAATGATCAGATATTCTATAGAGTAGTTGCAGACATTGCCG
CCGGGAGAGGAGCTTCTGCTGTTTCATGAAGAGCGAAGACTATCCCATGAAACTATGGCG
CCGGATATCCACGAAGAACGGCAATATCGCTGCGAAGACTGTGACCAGCTCTTTGAATCT
AAGGCTGAACTAGCAGATCACAAAAGTTTCCATGCAGTACTCCTCACTCAGCATTTTCA
ATGTTTGAAGAGGACTTTTCCAGCAAAAACCGAAAGCGAGAATGATCTCCAAGAGATACAC
ACGATCCAGGAGTGTAAGGAATGTGACCAAGTTTTTCTGATTTGCAAAGCCTGGAGAAA
CACATGCTGTACATACTGAAGAGAGGGAATACAAGTGTGATCAGTGTCCCAAGGCATTT
AACTGGAAGTCCAATTTAATTCGCCACCAGATGTACATGACAGTGGAAAGCACTATGAA
TGTGAAAACGTGTGCCAAGTTTTTACGGACCCTAGCAACCTTCAGCGGCACATTCGCTCT
CAGCATGTGCGTGCCCGGCCCATGCATGCCCGGAGTGTGGCAAAACGTTTGCCACTTCCG
TCGGGCCCTCAAACAACACAAGCACATCCACAGCAGTGTGAAGCCCTTTATCTGTGAGGTC
TGCCATAAATCCTATACTCAGTTTTCAAACCTTTGCCGTCATAAGCGCATGCATGCTGAT
TGCAGAACCCAAATCAAGTGCAAAGACTGTGGACAAATGTTTCAGCACTACGTCTTCTTA
AATAAACACAGGAGGTTTTGTGAGGGCAAGAACCATTTTGGCGCAGTGGATTTTTTGGC
CAAGGCATTTCACTTCTGGAACCCAGCTATGGATAAAACGTCATGGTTAATATGAGT
CATGCCAACCCGGCCCTTCTGACTATTTTGGCGCAATAGGCATCCTGCTGGTCTTACC
TTTCCAACAGCTCCTGGATTTTCTTTAGCTTCCCTGGTCTGTTTCTTCCGGCTTGATC
CACAGGCTCCTTTGATACCTGCTAGTTCTCCTGTTAAAGGACTATCAAGTACTGAACAG
ACAAACAAAAGTCAAAGTCCCCTCATGACACATCCTCAGATACTGCCAGCTACACAGGAT
ATTTTGAAGGCACTATCTAAACCCCATCTGTAGGGGACAATAAGCCAGTGGAGCTCCAG
CCCAGAGGTCCTCTGAAGAGAGGCCCTTTGAGAAAATCAGTGACCAGTCAGAGAGTAGT

```



[View online >](#)

GACCTTGATGATGTCAGTACACCAAGTGGCAGTGACCTGGAAACAACCTCGGGCTCTGAT  
 CTGAAAGTGACATTGAAAGTGATAAAGAGAAATTTAAAGAAAATGGTAAAATGTTCAAA  
 GACAAAGTAAAGCCCTCTTCAGAACTCGGCTTCAATAAATAAAGAAAGAATACAGCAAT  
 CATTCCATTTTCTCACCATCTTTAGAGGAGCAGACTGCGGTGTCAGGAGCTGTGAATGAT  
 TCTATAAAGGCTATTGCTTCTATTGCTGAAAAACTTTGGTTCAACAGGACTGGTGGGG  
 CTGCAAGACAAAAAGTTGGAGCTTTACCTTACCCTTCCATGTTTCCCCTCCCATTTTTT  
 CCAGCATCTCTCAATCAATGTACCCATTTCTGATAGAGACTGAGATCGTTACCTTTG  
 AAAATGGAACCCCAATCACCAGGTGAAGTAAAGAACTGCAGAAGGGCAGCTCTGAGTCC  
 CCCTTTGATCTCACCCTAAGCGAAAGGATGAGAAGCCCTTGACTCCAGTCCCCTCCAAG  
 CCTCCAGTGACACCTGCCACAAGCCAAGACCAGCCCTGGATCTAAGTATGGGCAGTAGG  
 AGTAGAGCCAGTGGGACAAAGCTGACTGAGCCTCGAAAAACCACGTGTTTGGGGAAAA  
 AAAGGAAGCAACGTGAATCAAGACCTGCTTCAGATGGTTCCTTGACAGCATGCAAGACCC  
 ACTCCTTTCTTTATGGACCCTATTTACAGAGTAGAGAAAAGAAAATAACTGACCCACTT  
 GAAGCTTTAAAAGAGAAATACTTGAGGCCTTCTCCAGGATCTTGTTTACCCACAATTC  
 CAACTGCCTGATCAGAGAACTTGGATGTCAGCTATTGAAAACATGGCAGAAAAGCTAGAG  
 AGTTCAGTGCCTGAAACCTGAGGCCAGTGAGCTTACAGTCAAGTGCCTCTATGTTT  
 AACTTCAGGGCGCCTCCCAATGCCTGCCAGAGAACCTTCTGCGGAAGGGAAAGGAGCGC  
 TATACCTGCAGATACTGTGGCAAGATTTTTCCAAGGTCTGCAAACCTAACACGGCACTTG  
 AGAACCCACACAGGAGAGCAGCCTTACAGATGCAATACTGTGACAGATCATTAGCATA  
 TCTTCTAACTTGCAAAGGCATGTTGCGAACATCCACAATAAAGAGAAGCCATTTAAGTGT  
 CACTTATGTGATAGGTGTTTTGGTCAACAAACCAATTTAGACAGACACCTAAAGAAACAT  
 GAGAATGGGAACATGTCGGGTACAGCAACATCGTCGCCTATTCTGAACTGGAAAGTACA  
 GGTGCGATTCTGGATGACAAAGAAGATGCTTACTTCACAGAAATTCGAAATTTCAATGGG  
 AACAGCAACCATGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAATGGCAGTCA  
 TTTAAAGATGAAAAGGCTTTGGTGACCAGTCAAAATTCAGACTTCTGGATGATGAAGAA  
 GTTGAAGATGAGGTGTTGTTAGATGAGGAGGATGAAGACAATGATATTACTGGAAAAACA  
 GGAAAGGAACAGTGACAAGTAATTTACATGAAGGAAACCCTGAGGATGACTATGAAGAA  
 ACCAGTGCCTGGAGATGAGTTGCAAGACATCCCAGTGAAGTATAAAGAGGAAGAATAT  
 AAAAGTGGACTTTCTGCTCTAGATCATATAAGGCACTTCACAGATAGCCTCAAAATGAGG  
 AAAATGGAAGATAATCAATATTCTGAAGCTGAGCTGTCTTTTACTACTTCCCATGTG  
 CCAGAGGAACTTAAGCAGCCGTTACACAGAAAGTCCAAATCGCAGGCATATGCTATGATG  
 CTGTCAGTGTCTGACAAGGAGTCCCTCCATTCTACATCCACAGTCTTCCAACGTGTGG  
 CACAGTATGGCCAGGGCTGCGGGGAATCCAGTGTATCCAGTCCATAAGCCACGTATGA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_004991

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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_004991.1</a> , <a href="#">NP_004982.1</a>
<b>RefSeq Size:</b>	1277 bp
<b>RefSeq ORF:</b>	510 bp
<b>Locus ID:</b>	2122
<b>UniProt ID:</b>	<a href="#">Q13465</a>
<b>Cytogenetics:</b>	3q26.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Chronic myeloid leukemia, MAPK signaling pathway, Pathways in cancer
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a transcriptional regulator and oncoprotein that may be involved in hematopoiesis, apoptosis, development, and cell differentiation and proliferation. The encoded protein can interact with CTBP1, SMAD3, CREBBP, KAT2B, MAPK8, and MAPK9. This gene can undergo translocation with the AML1 gene, resulting in overexpression of this gene and the onset of leukemia. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]</p> <p>Transcript Variant: This variant (4, also known as MDS1/EVI1) differs in the 5' UTR and 5' coding region, and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (c) has a distinct N-terminus and is longer than isoform a. There are no publicly available full-length transcripts representing this variant, but it is supported by cloning evidence in PMID:11050005.</p>