

## Product datasheet for **SC328045**

### **EVI1 (MECOM) (NM\_001105077) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EVI1 (MECOM) (NM_001105077) Human Untagged Clone
Tag:	Tag Free
Symbol:	MECOM
Synonyms:	AML1-EVI-1; EVI1; KMT8E; MDS1; MDS1-EVI1; PRDM3; RUSAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328045 representing NM_001105077. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCTTAGACGAATTTTACAATGTGAAGTTCTGCATAGATGCCAGTCAACCAGATGTTGGAAGCTGG
CTCAAGTACATTAGATTCGCTGGCTGTTATGATCAGCACAACCTTGTTCATGCCAGATAAATGATCAG
ATATTCTATAGAGTAGTTGCAGACATTGCGCCGGGAGAGGAGCTTCTGCTGTTTCAAGAGCGAAGAC
TATCCCATGAACTATGGCGCCGATATCCACGAAGAACGGCAATATCGCTGCGAAGACTGTGACCAG
CTCTTTGAATCTAAGGCTGAAGTACGAGATCACAAAAGTTTCCATGCAGTACTCCTCACTCAGCATT
TCAATGGTTGAAGAGGACTTTCAGCAAAAACGAAAGCGAGAATGATCTCCAAGAGATACACACGATC
CAGGAGTGAAGGAATGTGACCAAGTTTTTCTGATTTGCAAAGCCTGGAGAAACACATGCTGTCACAT
ACTGAAGAGAGGGAAATACAAGTGTGATCAGTGTCCCAAGGCATTTAACTGGAAAGTCCAATTTAATTCGC
CACCAGATGTCACATGACAGTGGAAAGCACTATGAATGTGAAAACGTGCGCAAGCAGGTTTTTACGGAC
CCTAGCAACCTTCAGCGGCACATTCGCTCTCAGCATGTGCGGTGCCCGGGCCCATGCATGCCCGGAGTGT
GGCAAAACGTTTGCCACTTCGTCGGGCCTCAAACAACACAAGCAGCATCCACAGCAGTGTGAAGCCCTTT
ATCTGTGAGGTCTGCCATAAATCCTATACTCAGTTTTTCAAACCTTTGCCGTCATAAGCGCATGCATGCT
GATTGCAGAACCCAAATCAAGTGCAAAGACTGTGGACAAATGTTGAGCACTACGCTTTCCTTAAATAAA
CACAGGAGGTTTTGTGAGGGCAAGAACCATTTTGGCGCAGGTGGATTTTTTGGCCAGGCATTTTCACTT
CCTGGAACCCAGCTATGGATAAAAACGTCATGGTTAATATGAGTCATGCCAACCCGGGCCTTGCTGAC
TATTTTGGCGCCAATAGGCATCCTGCTGCTTACCTTTCCAACAGCTCCTGGATTTTTCTTTAGCTTC
CCTGGTCTGTTTCTCCGGCTTGTAACACAGGCCTCCTTTGATACCTGCTAGTTCTCCTGTTAAAGGA
CTATCAAGTACTGAACAGACAAAACAAAGTCAAAGTCCCCTCATGACACATCCTCAGATACTGCCAGCT
ACACAGGATATTTGAAGGCACTATCTAAACACCCATCTGTAGGGGACAATAAGCCAGTGGAGCTCCAG
CCCAGAGGTCCTCTGAAGAGAGGCCCTTTGAGAAAATCAGTGACCAGTCAGAGAGTAGTGACCTTGAT
GATGTCAGTACACCAAGTGGCAGTGACCTGAAACAACCTCGGGCTCTGATCTGGAAGTGACATTGAA
AGTGATAAAGAGAAATTTAAAGAAAATGGTAAAATGTTCAAAGACAAAGTAAAGCCCTCTCAGAATCTG
```



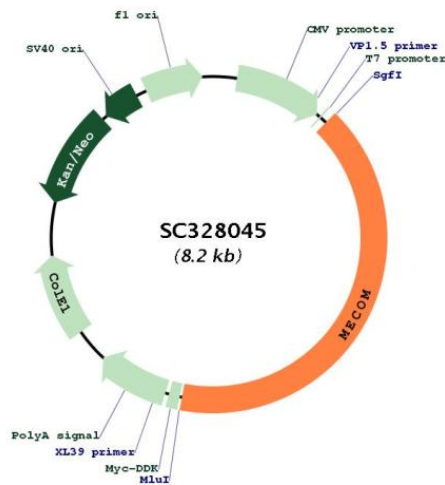
View online »

GCTTCAATAAATAAAGAAAGAATACAGCAATCATTCCATTTTCTCACCATCTTTAGAGGAGCAGACT  
 GCGGTGTCAGGAGCTGTGAATGATTCTATAAAGGCTATTGCTTCTATTGCTGAAAAATACTTTGGTTCA  
 ACAGGACTGGTGGGGCTGCAAGACAAAAAGTTGGAGCTTTACCTTACCCTTCCATGTTTCCCCTCCCA  
 TTTTTCCAGCATTCTCTCAATCAATGTACCCATTTCTGATAGAGACTTGAGATCGTTACCTTTGAAA  
 ATGGAACCCCAATCACCAGGTGAAGTAAAGAACTGCAGAAGGGCAGCTCTGAGTCCCCCTTTGATCTC  
 ACCACTAAGCGAAAGGATGAGAAGCCCTTGACTCCAGTCCCCTCCAAGCCTCCAGTGACACCTGCCACA  
 AGCCAAGACCAGCCCCTGGATCTAAGTATGGGCAGTAGGAGTAGAGCCAGTGGGACAAAGCTGACTGAG  
 CCTCGAAAAAACACAGTGTGGGGGAAAAAAGGAAGCAACGTGGAATCAAGACCTGCTTCAGATGGT  
 TCCTTGACAGCATGCAAGACCCACTCCTTTCTTTATGGACCCTATTTACAGAGTAGAGAAAAGAAAACTA  
 ACTGACCCACTTGAAGCTTTAAAAGAGAAATACTTGAGGCCTTCTCCAGGATTCTGTTTCACCCACAA  
 TTCCAACCTGCCTGATCAGAGAATTGGATGTCAGCTATTGAAAACATGGCAGAAAAGCTAGAGAGCTTC  
 AGTGCCCTGAAACCTGAGGCCAGTGAGCTTTACAGTCAGTGCCTCTATGTTCAACTTCAGGGCGCCT  
 CCCAATGCCCTGCCAGAGAACCTTCTGCGGAAGGGAAAGGAGCGCTATACCTGCAGATACTGTGGCAAG  
 ATTTTTCCAAGGTCTGCAAACTAACACGGCATTGAGAACCCACACAGGAGAGCAGCCTTACAGATGC  
 AAATACTGTGACAGATCATTTAGCATATCTTCTAACTTGCAAAGGCATGTTGCAACATCCACAATAAA  
 GAGAAGCCATTTAAGTGTCACTTATGTGATAGGTGTTTTGGTCAACAAACCAATTTAGACAGACACCTA  
 AAGAAACATGAGAATGGGAACATGTCCGGTACAGCAACATCGTCGCCCTATTCTGAACTGAAAAGTACA  
 GGTGCGATTCTGGATGACAAAGAAGATGCTTACTTACAGAAAATTCGAAATTTTCATTGGGAACAGCAAC  
 CATGGCAGCCAATCTCCCAGGAATGTGGAGGAGAGAATGAATGGCAGTCATTTAAAGATGAAAAGGCT  
 TTGGTGACCAGTCAAAATTCAGACTTGTGGATGATGAAGAAGTTGAAGATGAGGTGTTGTTAGATGAG  
 GAGGATGAAGACAATGATTAAGTGAAGAAACAGGAAAGGAACCAAGTGAAGTAAATTTACATGAAGGA  
 AACCTGAGGATGACTATGAAGAAACAGTGCCTGGAGATGAGTTGCAAGACATCCCAGTGAAGTAT  
 AAAGAGGAAGAATAAAAAGTGGACTTTCTGCTAGATCATATAAGGCACCTCACAGATAGCCTCAAA  
 ATGAGGAAAAATGGAAGATAATCAATATTCTGAAGCTGAGCTGTCTTTTAGTACTTCCCATGTGCCA  
 GAGGAACTTAAGCAGCCGTTACACAGAAAGTCCAAATCGCAGGCATATGCTATGATGCTGCTACTGTCT  
 GACAAGGAGTCCCTCCATTCTACATCCCACAGTCTTCCAACGTGTGGCAGATGATGCCAGGGCTGCG  
 GCGGAATCCAGTGTATCCAGTCCATAAGCCACGTATGA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM\_001105077

Insert Size: 3351 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>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.</p>
<b>Components:</b>	<p>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).</p>
<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_001105077.3</a>
<b>RefSeq Size:</b>	4900 bp
<b>RefSeq ORF:</b>	3351 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>MW:</b>	125.8 kDa

**Gene Summary:**

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]  
Transcript Variant: This variant (1) encodes isoform a.