

## Product datasheet for RC229420

### EVI1 (MECOM) (NM\_004991) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EVI1 (MECOM) (NM_004991) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MECOM
Synonyms:	AML1-EVI-1; EVI1; KMT8E; MDS1; MDS1-EVI1; PRDM3; RUSAT2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC229420 representing NM_004991 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGATCCAAAGGCAGGGCAAGGAACTGGCCACAAATAATGAGTGTGTATATGGCAACTACCCCTGAAA  
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CCTGATGATATCCCCATTCTGCTGAGTTTGAACCTCGAGAGTCAAATATGCCTGGGGCAGGACTAGGAA  
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GACTATCAAGTACTGAACAGACAAAACAAAAGTCAAAGTCCCCTCATGACACATCCTCAGATACTGCCAGC  
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**Protein Sequence:** >RC229420 representing NM\_004991  
 Red=Cloning site Green=Tags(s)

MRSKGRARKLATNNECVYGNYPEIPLEEMPDADGVASTPSLNIQEPSPATSSEAFTPKEGSPYKAPIYI  
 PDDIPIPAEFLRESNMPGAGLGIWTKRKIEVGEKFGPYVGEQRSNLKDPSTYQWEILDEFYVVKFCIDAS  
 QPDVGSWLKYIRFAGCYDQHNLVACQINDQIFYRVVADIAPGEELLLFMKSEDPHETMAPDIHEERQYR  
 CEDCDQLFESKAELADHQKFCSTPHSAFMSVEEDFQQKLESENDLQEIHTIQECKEDQVFPDLQSLEK  
 HMLSHTEEREYKCDQCPKAFNWKSNLIRHQMSHDSGKHYESCENCAKVFTDPSNLQRHIRSQHVGARAHAC  
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 QPLDLSMGSRSRASGTKLTEPRKNHVFSGKKGSNVESRPASDGSGLQHARPTPFFMDPIYRVEKRKLDPL  
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 ENLLRKGKERYTCRYCGKIFPRSANLTRHLRTHTGEQPYRCKYCDRSFSSSNLQRHVRNIHNKEKPFKC  
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 NVEERMNGSHFKDEKALVTSQNSDLLDDEEVEDEVLLDEEDEDNDITGKTGKEPVTNLHEGNPEDDYEE  
 TSALEMCKTSPVRYKEEYKSGLSALDHIRHFTDSLKMRKMDNQYSEAESSTSHVPEELKQPLHR  
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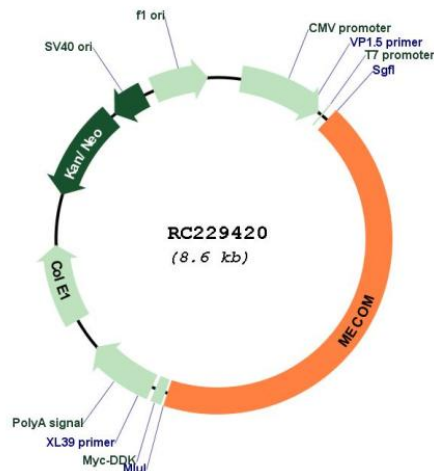
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_004991

ORF Size: 3717 bp

**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](#)

**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:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq:	<a href="#">NM_004991.4</a>
RefSeq ORF:	3720 bp
Locus ID:	2122
UniProt ID:	<a href="#">Q13465</a>
Cytogenetics:	3q26.2
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Chronic myeloid leukemia, MAPK signaling pathway, Pathways in cancer
MW:	139.1 kDa
Gene Summary:	<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>