OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC226310

EVI1 (MECOM) (NM_001105078) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EVI1 (MECOM) (NM_001105078) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EVI1
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)

ORF Nucleotide Sequence:

>RC226310 representing NM_001105078
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAGCGAAGACTATCCCCATGAAACTATGGCGCCGGATATCCACGAAGAACGGCAATATCGCTGCG
AAGACTGTGACCAGCTCTTTGAATCTAAGGCTGAACTAGCAGATCACCAAAAGTTTCCATGCAGTACTCC
TCACTCAGCATTTTCAATGGTTGAAGAGGACTTTCAGCAAAAACTCGAAAGCGAGAATGATCTCCAAGAG
ATACACACGATCCAGGAGTGTAAGGAATGTGACCAAGTTTTTCCTGATTTGCAAAGCCTGGAGAAACACA
TGCTGTCACATACTGAAGAGAGGGAATACAAGTGTGATCAGTGTCCCAAGGCATTTAACTGGAAGTCCAA
TTTAATTCGCCACCAGATGTCACATGACAGTGGAAAGCACTATGAATGTGAAAACTGTGCCAAGGTTTTC
ACGGACCCTAGCAACCTTCAGCGGCACATTCGCTCTCAGCATGTCGGTGCCCGGGCCCATGCATGCCCGG
AGTGTGGCAAAACGTTTGCCACTTCGTCGGGCCTCAAACAACACAAGCACATCCACAGCAGTGTGAAGCC
CTTTATCTGTGAGGTCTGCCATAAATCCTATACTCAGTTTTCAAACCTTTGCCGTCATAAGCGCATGCAT
GCTGATTGCAGAACCCAAATCAAGTGCAAAGACTGTGGACAAATGTTCAGCACTACGTCTTCCTTAAATA
AACACAGGAGGTTTTGTGAGGGCAAGAACCATTTTGCGGCAGGTGGATTTTTTGGCCAAGGCATTTCACT
TCCTGGAACCCCAGCTATGGATAAAACGTCCATGGTTAATATGAGTCATGCCAACCCGGGCCTTGCTGAC
TATTTTGGCGCCAATAGGCATCCTGCTGGTCTTACCTTTCCAACAGCTCCTGGATTTTCTTTTAGCTTCC
CTGGTCTGTTTCCTTCCGGCTTGTACCACAGGCCTCCTTTGATACCTGCTAGTTCTCCTGTTAAAGGACT
ATCAAGTACTGAACAGACAAACAAAAGTCAAAGTCCCCTCATGACACATCCTCAGATACTGCCAGCTACA
CAGGATATTTTGAAGGCACTATCTAAACACCCATCTGTAGGGGACAATAAGCCAGTGGAGCTCCAGCCCG
AGAGGTCCTCTGAAGAGAGGCCCTTTGAGAAAATCAGTGACCAGTCAGAGAGTAGTGACCTTGATGATGT
CAGTACACCAAGTGGCAGTGACCTGGAAACAACCTCGGGCTCTGATCTGGAAAGTGACATTGAAAGTGAT
AAAGAGAAATTTAAAGAAAATGGTAAAATGTTCAAAGACAAAGTAAGCCCTCTTCAGAATCTGGCTTCAA
TAAATAATAAGAAAGAATACAGCAATCATTCCATTTTCTCACCATCTTTAGAGGAGCAGACTGCGGTGTC
AGGAGCTGTGAATGATTCTATAAAGGCTATTGCTTCTATTGCTGAAAAATACTTTGGTTCAACAGGACTG

View online »

GTGGGGCTGCAAGACAAAAAAGTTGGAGCTTTACCTTACCCTTCCATGTTTCCCCTCCCATTTTTTCCAG
CATTCTCTCAATCAATGTACCCATTTCCTGATAGAGACTTGAGATCGTTACCTTTGAAAATGGAACCCCA
ATCACCAGGTGAAGTAAAGAAACTGCAGAAGGGCAGCTCTGAGTCCCCCTTTGATCTCACCACTAAGCGA
AAGGATGAGAAGCCCTTGACTCCAGTCCCCTCCAAGCCTCCAGTGACACCTGCCACAAGCCAAGACCAGC
CCCTGGATCTAAGTATGGGCAGTAGGAGTAGAGCCAGTGGGACAAAGCTGACTGAGCCTCGAAAAAACCA
CGTGTTTGGGGGAAAAAAAGGAAGCAACGTCGAATCAAGACCTGCTTCAGATGGTTCCTTGCAGCATGCA
AGACCCACTCCTTTCTTTATGGACCCTATTTACAGAGTAGAGAAAAGAAAACTAACTGACCCACTTGAAG
CTTTAAAAGAGAAATACTTGAGGCCTTCTCCAGGATTCTTGTTTCACCCACAATTCCAACTGCCTGATCA
GAGAACTTGGATGTCAGCTATTGAAAACATGGCAGAAAAGCTAGAGAGCTTCAGTGCCCTGAAACCTGAG
GCCAGTGAGCTCTTACAGTCAGTGCCCTCTATGTTCAACTTCAGGGCGCCTCCCAATGCCCTGCCAGAGA
ACCTTCTGCGGAAGGGAAAGGAGCGCTATACCTGCAGATACTGTGGCAAGATTTTTCCAAGGTCTGCAAA
CCTAACACGGCACTTGAGAACCCACACAGGAGAGCAGCCTTACAGATGCAAATACTGTGACAGATCATTT
AGCATATCTTCTAACTTGCAAAGGCATGTTCGCAACATCCACAATAAAGAGAAGCCATTTAAGTGTCACT
TATGTGATAGGTGTTTTGGTCAACAAACCAATTTAGACAGACACCTAAAGAAACATGAGAATGGGAACAT
GTCCGGTACAGCAACATCGTCGCCTCATTCTGAACTGGAAAGTACAGGTGCGATTCTGGATGACAAAGAA
GATGCTTACTTCACAGAAATTCGAAATTTCATTGGGAACAGCAACCATGGCAGCCAATCTCCCAGGAATG
TGGAGGAGAGAATGAATGGCAGTCATTTTAAAGATGAAAAGGCTTTGGTGACCAGTCAAAATTCAGACTT
GCTGGATGATGAAGAAGTTGAAGATGAGGTGTTGTTAGATGAGGAGGATGAAGACAATGATATTACTGGA
AAAACAGGAAAGGAACCAGTGACAAGTAATTTACATGAAGGAAACCCTGAGGATGACTATGAAGAAACCA
GTGCCCTGGAGATGAGTTGCAAGACATCCCCAGTGAGGTATAAAGAGGAAGAATATAAAAGTGGACTTTC
TGCTCTAGATCATATAAGGCACTTCACAGATAGCCTCAAAATGAGGAAAATGGAAGATAATCAATATTCT
GAAGCTGAGCTGTCTTCTTTTAGTACTTCCCATGTGCCAGAGGAACTTAAGCAGCCGTTACACAGAAAGT
CCAAATCGCAGGCATATGCTATGATGCTGTCACTGTCTGACAAGGAGTCCCTCCATTCTACATCCCACAG
TTCTTCCAACGTGTGGCACAGTATGGCCAGGGCTGCGGCGGAATCCAGTGCTATCCAGTCCATAAGCCAC
GTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226310 representing NM_001105078
Red=Cloning site Green=Tags(s)

MKSEDYPHETMAPDIHEERQYRCEDCDQLFESKAELADHQKFPCSTPHSAFSMVEEDFQQKLESENDLQE
IHTIQECKECDQVFPDLQSLEKHMLSHTEEREYKCDQCPKAFNWKSNLIRHQMSHDSGKHYECENCAKVF
TDPSNLQRHIRSQHVGARAHACPECGKTFATSSGLKQHKHIHSSVKPFICEVCHKSYTQFSNLCRHKRMH
ADCRTQIKCKDCGQMFSTTSSLNKHRRFCEGKNHFAAGGFFGQGISLPGTPAMDKTSMVNMSHANPGLAD
YFGANRHPAGLTFPTAPGFSFSFPGLFPSGLYHRPPLIPASSPVKGLSSTEQTNKSQSPLMTHPQILPAT
QDILKALSKHPSVGDNKPVELQPERSSEERPFEKISDQSESSDLDDVSTPSGSDLETTSGSDLESDIESD
KEKFKENGKMFKDKVSPLQNLASINNKKEYSNHSIFSPSLEEQTAVSGAVNDSIKAIASIAEKYFGSTGL
VGLQDKKVGALPYPSMFPLPFFPAFSQSMYPFPDRDLRSLPLKMEPQSPGEVKKLQKGSSESPFDLTTKR
KDEKPLTPVPSKPPVTPATSQDQPLDLSMGSRSRASGTKLTEPRKNHVFGGKKGSNVESRPASDGSLQHA
RPTPFFMDPIYRVEKRKLTDPLEALKEKYLRPSPGFLFHPQFQLPDQRTWMSAIENMAEKLESFSALKPE
ASELLQSVPSMFNFRAPPNALPENLLRKGKERYTCRYCGKIFPRSANLTRHLRTHTGEQPYRCKYCDRSF
SISSNLQRHVRNIHNKEKPFKCHLCDRCFGQQTNLDRHLKKHENGNMSGTATSSPHSELESTGAILDDKE
DAYFTEIRNFIGNSNHGSQSPRNVEERMNGSHFKDEKALVTSQNSDLLDDEEVEDEVLLDEEDEDNDITG
KTGKEPVTSNLHEGNPEDDYEETSALEMSCKTSPVRYKEEEYKSGLSALDHIRHFTDSLKMRKMEDNQYS
EAELSSFSTSHVPEELKQPLHRKSKSQAYAMMLSLSDKESLHSTSHSSSNVWHSMARAAAESSAIQSISH
V

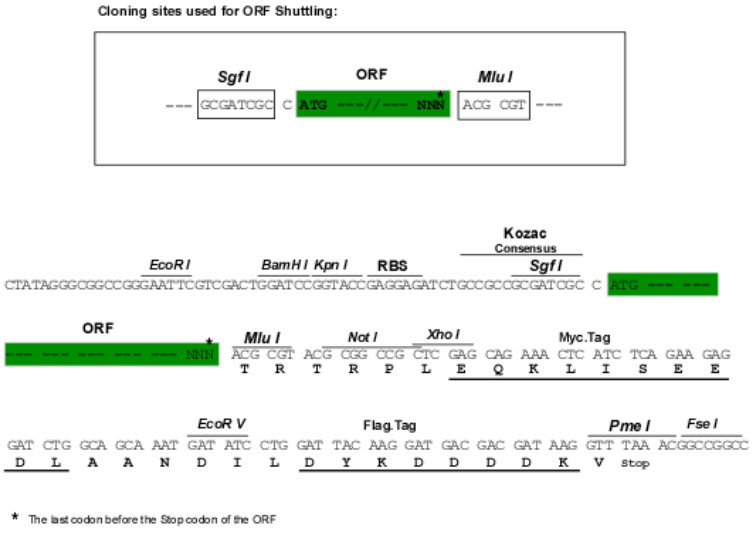
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6168_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001105078

ORF Size: 3153 bp

OTI Disclaimer: 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: NM_001105078.4

RefSeq ORF: 3156 bp

Locus ID: 2122

UniProt ID: Q13465

Cytogenetics: 3q26.2

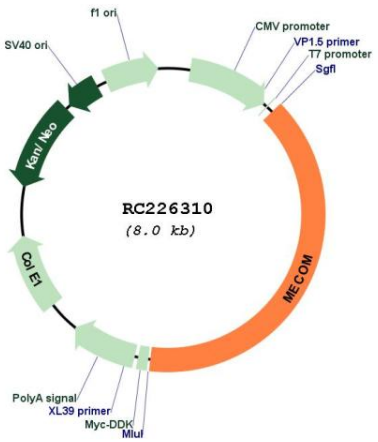
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Chronic myeloid leukemia, MAPK signaling pathway, Pathways in cancer

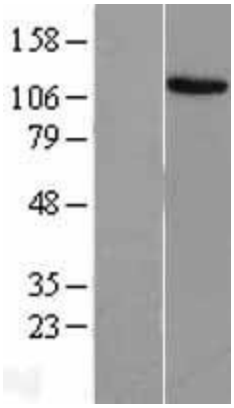
MW: 118.1 kDa

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]

Product images:



Circular map for RC226310



Western blot validation of overexpression lysate (Cat# [LY426216]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226310 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).