

Product datasheet for **RG235140**

EVI1 (MECOM) (NM_001205194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EVI1 (MECOM) (NM_001205194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MECOM
Synonyms:	AML1-EVI-1; EVI1; KMT8E; MDS1; MDS1-EVI1; PRDM3; RUSAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235140 representing NM_001205194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGCGAAGACTATCCCCATGAACTATGGCGCCGGATATCCACGAAGAACGGCAATATCGCTGCG
AAGACTGTGACCAGCTCTTTGAATCTAAGGCTGAACTAGCAGATCACAAAAGTTTCCATGCAGTACTCC
TCACTCAGCATTTTCAATGGTTGAAGGACTTTCAGCAAAAACCGAAAGCGAGAATGATCTCCAAGAG
ATACACACGATCCAGGAGTGAAGGAATGTACCAAGTTTTTCTGATTTGCAAAGCCTGGAGAAACACA
TGCTGTACATACTGAAGAGAGGAATACAAGTGTGATCAGTGTCCCAAGGCATTTAACTGGAAGTCCAA
TTTAATTCGCCACCAGATGTACATGACAGTGGAAAGCACTATGAATGTGAAAACGTGCCAAGGTTTTTC
ACGGACCCCTAGCAACCTTCAGCGGCACATTCGCTCTCAGCATGTCCGGTGCCTGGGCCCATGCATGCCCGG
AGTGTGGCAAAACGTTTGCCACTTCGTCCGGCCTCAAACAACACAAGCACATCCACAGCAGTGTGAAGCC
CTTTATCTGTGAGGTCTGCCATAAATCCTATACTCAGTTTTCAAACCTTTGCCGTATAAGCGCATGCAT
GCTGATTGCAGAACCAATCAAGTGCAAAGACTGTGGACAAATGTTGAGCACTACGTCTTCTTAAATA
AACACAGGAGGTTTTGTGAGGGCAAGAACCATTTGCGGCAGGTGGATTTTTGGCCAAGGCATTTCACT
TCCTGGAACCCAGCTATGGATAAAACGTCCATGGTAAATATGAGTCATGCCAACCCGGGCTTGTCTGAC
TATTTTGGCGCCAATAGGCATCTGCTGGTCTTACCTTTCCAACAGCTCCTGGATTTTCTTTAGCTTCC
CTGGTCTGTTTCTTCCGCTTGTACCACAGGCTCCTTTGATACCTGCTAGTTCTCCTGTTAAAGGACT
ATCAAGTACTGAACAGACAAAACAAAGTCAAAGTCCCCTCATGACACATCCTCAGATACTGCCAGTACA
CAGGATATTTGAAGGCACTATCTAAACACCCATCTGTAGGGGACAATAAGCCAGTGGAGCTCCAGCCC
AGAGGTCTCTGAAGAGAGGCCCTTTGAGAAAATCAGTGACCAGTCAAGAGTAGTGACCTTGATGATGT
CAGTACACCAAGTGGCAGTGACCTGAAACAACCTCGGGCTCTGATCTGGAAAGTACATTGAAAGTGT
AAAGAGAAATTTAAAGAAAATGGTAAAATGTTCAAAGACAAAGTAAAGCCCTTTTCAAGTCTGGCTTCAA
TAAATAAAGAAAGAATACAGCAATCATTCCATTTTCTACCATCTTTAGAGGAGCAGACTGCGGTGTC
AGGAGCTGTGAATGATTCTATAAAGGCTATTGCTTCTATTGCTGAAAAACTTTGGTTCAACAGGACTG



[View online »](#)

```

GTGGGGCTGCAAGACAAAAAGTTGGAGCTTTACCTTACCCTTCCATGTTTCCCCTCCCATTTTTCCAG
CATTCTCTCAATCAATGTACCCATTTCTGATAGAGACTTGAGATCGTTACCTTTGAAAAAGAACCCCA
ATCACCAGGTGAAGTAAAGAAATGCAGAAGGGCAGCTCTGAGTCCCCTTTGATCTCACCCTAAGCGA
AAGGATGAGAAGCCCTTGACTCCAGTCCCCTCCAAGCCTCCAGTGACACCTGCCACAAGCCAAGACCAGC
CCCTGGATCTAAGTATGGGCAGTAGGAGTAGAGCCAGTGGGACAAAGCTGACTGAGCCTCGAAAAACCA
CGTGTTTGGGGGAAAAAAGGAAGCAACGTCAATCAAGACCTGCTTCAGATGGTTCCTTGCAGCATGCA
AGACCCTCCTTTCTTTATGGACCTATTTACAGAGTAGAGAAAAGAACTAACTGACCCTTGAAG
CTTTAAAAGAGAAATACTTGAGGCCTTCCAGGATTCTGTTTACCCACAATTCACCTGCCTGATCA
GAGAACTTGATGTCAGCTATTGAAAACATGGCAGAAAAGCTAGAGAGCTTCAGTGCCCTGAAACCTGAG
GCCAGTGAGCTTTACAGTCAGTGCCCTCTATGTTCAACTTCAGGGCGCCTCCCAATGCCCTGCCAGAGA
ACCTTCTGCGGAAGGAAAGGAGCGCTATACCTGCAGATACTGTGGCAAGATTTTTCCAAGGTCTGAAA
CCTAACACGGCACTTGAGAACCCACACAGGAGAGCAGCCTTACAGATGCAAACTGTGACAGATCATT
AGCATATCTTAACTTGCAAAGGCATGTTGCAACATCCACAATAAAGAGAAGCCATTTAAGTGTCACT
TATGTGATAGGTGTTTTGGTCAACAAACCAATTTAGACAGACACCTAAAGAAACATGAGAATGGGAACAT
GTCCGGTACAGCAACATCGTCGCCTCATTCTGAACTGGAAGTACAGGTGCGATTCTGGATGACAAAGAA
GATGCTTACTTCACAGAAATTCGAAATTCATTGGGAACAGCAACCATGGCAGCCATCTCCAGGAATG
TGGAGGAGAGAATGAATGGCAGTCATTTAAAGATGAAAAGGCTTTGGTGACCAGTCAAAATTCAGACT
GCTGGATGATGAAGAAGTTGAAGATGAGGTGTTGTAGATGAGGAGGATGAAGACAATGATATTACTGGA
AAAACAGGAAAGGAACAGTGAAGTAAATTTACATGAAGGAAACCTGAGGATGACTATGAAGAAACCA
GTGCCCTGGAGATGAGTTGCAAGACATCCCAGTGAAGTATAAAGAGGAAGAATAAAAAGTGGACTTTC
TGCTCTAGATCATATAAGGCACTTACAGATAGCCTCAAATGAGGAAAATGGAAGATAATCAATATTCT
GAAGCTGAGCTGTCTTTTAGTACTTCCCATGTGCCAGAGGAACCTAAGCAGCCGTTACACAGAAAGT
CCAAATCGCAGGCATATGCTATGATGCTGTCAGTGTCTGACAAGGAGTCCCTCCATTCTACATCCACAG
TTCTTCCAACGTGTGGCAGATATGGCCAGGGCTGCGGGCGAATCCAGTGCTATCCAGTCCATAAGCCAC
GTA
    
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235140 representing NM_001205194

Red=Cloning site Green=Tags(s)

```

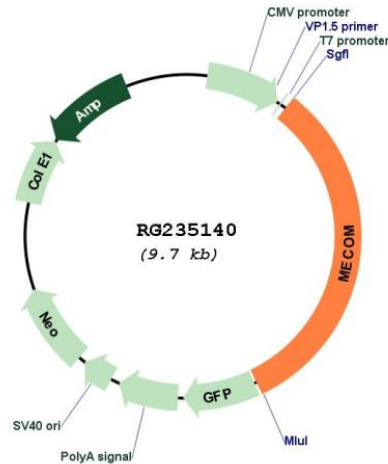
MKSEDYPHETMAPDIHEERQYRCEDCDQLFESKAELADHQKFPSTPHSAFMSVEEDFQQKLESENDLQE
IHTIQECKEDQVFPDLQSLKHLMSHTEEREYKCDQCPKAFNWKSNLIRHQMSHDSGKHYECENCAKVF
TDPSNLQRHIRSQHVGARAHACPECGKTFATSSGLKQHKHIHSSVKPFICEVCHKSYTQFSNLCRHKRMH
ADCRTQIKCKDCGQMFSTSSLNKHRFCEGKNHFAAGGFFGQGISLPGTPAMDKTSMVNMSHANPGLAD
YFGANRHPAGLTFPTAPGFSFSPGLFSPGLYHRPPLIPASSPVKGLSSTEQTNKSQSPLMTHPQILPAT
QDILKALSKHPSVGDNKPVELQPERSSSEERPFEKISDQSESSDLDDVSTPSGSDLETTSGSDLESDIESD
KEKFKENGMFKDKVSPLQNLASINNKKEYSNHSIFSPSLEEQTAVSGAVNDSIKAIASIAEKYFGSTGL
VGLQDKKVGALPYPSMFPLPFFPAFSQSMYPFPDRDLRSLPLKMEPQSPGEVKKLQKGSSESPFDLTTKR
KDEKPLTPVPSKPPVTPATSQDQPLDLSMGRSRASGTLTEPRKNHVFGGKGSNVESRPASDGSLQHA
RPTPFMDPIYRVEKRKLTDPLEALKEKYLRLSPGFLFHPQFQLPDQRTWMSAIENMAEKLESFSALKPE
ASELLQSVPSMFNFRAPPNALPENLLRKGKERYTCRYCGKIFPRSANLTRHLRHTHTGEQPYRCKYCDRSF
SISNNLQRHVRNIHNKEKPKCHLCDRCFGQQTNLDRHLKKHENGMSTATSSPHSELESTGAILDDKE
DAYFTEIRNFIGNSNHGSQSPRNVEERMNGSHFKDEKALVTSQNSDLLDDEEVEDEVLLDEEDEDNDITG
KTGKEPVTNLHEGNPEDDYEETSALMSCKTSPVRYKEEYKSGLSALDHIRHFTDSLKMRKMEDNQYS
EAELESSFSTSHVPEELKQPLHRKSKSQAYAMMLSLSDKESLHSTSHSSSNVWHSMAAAAESSAIQSIHV
    
```

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001205194

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:	<ol style="list-style-type: none">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_001205194.2
RefSeq Size:	5195 bp
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
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]