

Product datasheet for SC335942

EOMES (NM_001278183) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EOMES (NM_001278183) Human Untagged Clone
Tag:	Tag Free
Symbol:	EOMES
Synonyms:	TBR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335942 representing NM_001278183. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTCTTTCTTGAGCTTCAACATAAACGGACTCAATCCCCTGCCCCTACAATGTGTTTCGTAGAG
GTGGTGTGGCGGACCCCAACCGTGGCGCTTCCAGGGGGCAAATGGGTGACCTGTGGCAAAGCCGAC
AATAACATGCAGGGCAACAAAATGTATGTTCCACCAGAGTCTCCTAATACTGGTCCCCTGGATGAGA
CAGGAGATTTTCATTCGGGAAATAAAACACCAATAACAAGGCGCAAATAACAACAACACCCAGATG
ATAGTCTTACAATCCTTACACAAATACCAACCCCGACTGCATATTGTTGAAGTTACAGAGGATGGCGTG
GAGGACTTGAATGAGCCCTCAAAGACCCAGACTTTTACCTTCTCAGAAACGCAATTCATTGCAGTGACT
GCCTACAAAACACCGATATTACTCAACTAAAGATTGATCATAACCCCTTTGCAAAGGCTTCAGAGAC
AACTATGATTCCATGTACACCGCTTCAGAAAATGACAGGTTAACTCCATCTCCCACGGATTCTCCTAGA
TCCCATCAGATTGTCCTGGAGGTCGGTACGGCGTTCAATCCTTCTTCCCGGAGCCCTTTGTCAACT
TTACCTCAAGCCCGCTATTATAATGGCGAGAGAACCGTGCCACAGACCAACGGCCCTCTTTCACCCCAA
CAGAGCGAAGAGGTGGCCAACCTCCCCAGCGTGGCTTGTACGCCTGTCCAGCAACCTGGGACCAAC
AACTAGACATCAGTTCCTATGAATCTGAATATACTTCTAGCACATTGCTCCCATATGGCATTAAATCC
TTGCCCTTCAGACATCCCATGCCCTGGGTATTACCCAGACCAACCTTCTGCAATGGCAGGGTGG
GGAGTTCGAGGTTCTTACCAGAGGAAGATGGCAGCTGGACTACCATGGACCTCCAGAACAAGCCCACT
GTGTTCTCTGAAGATCAGCTCTCCAAGGAGAAAGTGAAGAGGAAATTGGCTCTTCTTGGATAGAGACA
CCCCCTTCCATCAAATCTCTAGATTCCAATGATTCAGGAGTATACACCAGTGCTTGAAGCGAAGCGCG
CTGTCTCTAGCAACTCCAGTAATGAAAATTCACCCTCCATAAAGTGTGAGGACATTAATGCTGAAGAG
TATAGTAAAGACACCTCAAAGGCATGGGAGGTTATTGCTTTTTACACAACCTCCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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ACCN:	NM_001278183
Insert Size:	1233 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_001278183.1
RefSeq Size:	2658 bp
RefSeq ORF:	1233 bp
Locus ID:	8320
UniProt ID:	O95936
Cytogenetics:	3p24.1
Protein Families:	Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
MW:	46 kDa

Gene Summary:

This gene belongs to the TBR1 (T-box brain protein 1) sub-family of T-box genes that share the common DNA-binding T-box domain. The encoded protein is a transcription factor which is crucial for embryonic development of mesoderm and the central nervous system in vertebrates. The protein may also be necessary for the differentiation of effector CD8+ T cells which are involved in defense against viral infections. A similar gene disrupted in mice is shown to be essential during trophoblast development and gastrulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

Transcript Variant: This variant (3) differs in the 5' UTR, 5' coding region and initiates translation at a downstream AUG, compared to variant 1. It encodes isoform 3 which has a shorter N-terminus, compared to isoform 1.