

Product datasheet for **SC116738**

EOMES (NM_005442) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EOMES (NM_005442) Human Untagged Clone
Tag:	Tag Free
Symbol:	EOMES
Synonyms:	TBR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005442 edited
 ATGCAGTTAGGGGAGCAGCTCTTGGTGAGCTCAGTGAACCTGCCTGGCGGCACTTCTAC
 CCGCTGGAGAGTGC GCGAGGGCGG CAGCGGCGGGAGCGCTGGCCACCTCCCAGCGCGGCC
 CCCTCTCTCAGAAGTTGGACTTAGACAAAGCGTCCAAGAAGTTTTCCGGCAGTCTCTCC
 TGCGAGGCGGTGAGCGGGGAGCCCGCAGCCGACAGCGCAGGGGCCCCCGGGCCATGCTT
 AGTGACACCGACCGCGGGGACGCATTTGCCAGCGCTGCGGCAGTGGCCAAGCCGGGGCCC
 CCGGACGGCCGCAAGGGCTCCCCCTGCGGGGAGGAGAGCTGCCCTCCGCCGTGCAGCC
 GCCGCCGCCGCCGCCCGCGGGCTGCGGCCACTGCGCGCTACTCCATGGACAGCCTGAGC
 TCCGAGCGGTACTACCTCCAGTCCCCGGTCTCAGGGTTCGAGCTGGCTGCGCCCTGC
 TCACTTCTCCGTACCAGGCGGCGGCTGGGGCGCCCCACGGACCTGTGTACCCGGCTCT
 AACGGGGCGCGTACCCCTACGGCTCCATGCTGCCCGCGGGCTTCCCGCGGCTGTG
 TGCCACCCGGGAGGGCGCAGTTCGGCCAGGAGCCGGTGC GGGCAGTGGCGGGGGCGGT
 AGCAGCGCGGGGGCGGCGGCCCGGGCACCTATCAGTACAGCCAGGGGGCTCCGCTAC
 GGGCCGTACCCTGGAGCCGACGCGGGGATCTTGC GAGGACTGGGGGGCTGGGGGTT
 CCAGGTTCTGGCTTCGTGCCACGTCTACCTGTGCAACCGGCCCTGTGGCTCAAATTC
 CACCGCCACAAACTGAGATGATCATTACGAAACAGGGCAGGCGCATGTTTCCTTCTTG
 AGTTCACATAAACGGACTCAATCCCCTGCCCCTACAATGTGTTCTGAGAGTGGTG
 CTGGCGGACCCCAACCTGCGGCTTCCAGGGGGCAAATGGGTGACCTGTGGCAAAGCC
 GACAATAACATGCAGGGCAACAAAATGTATGTTACCCAGAGTCTCCTAATACTGGTTCC
 CACTGGATGAGACAGGAGATTTCAATCGGGAAATAAAACCTACCAATAACAAAGGCGCA
 AATAACAACAACCCAGATGATAGTCTTACAATCCTTACACAAATACCAACCCCGACTG
 CATATTTGTTGAAGTTACAGAGGATGGCGTGGAGGACTTGAATGAGCCCTCAAAGACCCAG
 ACTTTTACCTTCTCAGAAACGCAATTCATTGCAGTGACTGCCTACCAAAACACCGATATT
 ACTCAACTAAAGATTGATCATAACCCCTTTGCAAAGGCTTCAGAGACAATATGATTCA
 TCCCATCAGATTGTCCTGGAGGTCGGTACGGCGTTCAATCCTTCTTCCCGGAGCCCTTT
 GTCAACACTTTACCTCAAGCCGCTATTATAATGGCGAGAGAACCCTGCCACAGACCAAC
 GGCCTCTTTACCCCAACAGAGCGAAGAGGTGGCCAACCCTCCCAGCGGTGGCTTGT
 ACGCCTGTCCAGCAACCTGGGACCAACAACTAGACATCAGTTCCTATGAATCTGAATAT
 ACTTCTAGCACATTGCTCCCATATGGCATTAAATCCTTGGCCCTCAGACATCCCATGCC
 CTGGGGTATTACCAGACCCAACCTTTCTGCAATGGCAGGTGGGGAGGTGAGGTTCT
 TACCAGAGGAAGATGGCAGCTGGACTACCATGGACCTCCAGAACAAGCCCACTGTGTT
 TCTGAAGATCAGCTCTCAAGGAGAAAGTGAAAGAGGAAATTGGCTCTTCTTGGATAGAG
 ACACCCCTTCCATCAAATCTCTAGATTCCAATGATTCAGGAGTATACCCAGTGCTTGT
 AAGCGAAGGCGGCTGTCTCTAGCAACTCCAGTAATGAAAATCACCCCTCCATAAAGTGT
 GAGGACATTAATGCTGAAGAGTATAGTAAAGACACCTCAAAGGCATGGGAGGATTAT
 GCTTTTTACAACTCCCTAA

Restriction Sites: NotI-NotI
ACCN: NM_005442
Insert Size: 2100 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 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 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.

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_005442.2](#), [NP_005433.2](#)

RefSeq Size: 2756 bp

RefSeq ORF: 2061 bp

Locus ID: 8320

UniProt ID: [O95936](#)

Cytogenetics: 3p24.1

Domains: T-box

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

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 (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.