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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
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None

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Fully Sequenced ORF:

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>OriGene sequence for NM_005442 edited
ATGCAGTTAGGGGAGCAGCTCTTGGTGAGCTCAGTGAACCTGCCTGGCGCGCACTTCTAC
CCGCTGGAGAGTGCGCGAGGCGGCAGCGGCGGGAGCGCTGGCCACCTCCCCAGCGCGGCC
CCCTCTCCTCAGAAGTTGGACTTAGACAAAGCGTCCAAGAAGTTTTCCGGCAGTCTCTCC
TGCGAGGCGGTGAGCGGGGAGCCCGCAGCCGCCAGCGCAGGGGCCCCCGCGGCCATGCTT
AGTGACACCGACGCCGGGGACGCATTTGCCAGCGCTGCGGCAGTGGCCAAGCCGGGGCCC
CCGGACGGCCGCAAGGGCTCCCCCTGCGGGGAGGAGGAGCTGCCCTCCGCCGCTGCAGCC
GCCGCCGCCGCCGCCGCCGCGGCTGCGGCCACTGCGCGCTACTCCATGGACAGCCTGAGC
TCCGAGCGGTACTACCTCCAGTCCCCCGGTCCTCAGGGGTCGGAGCTGGCTGCGCCCTGC
TCACTCTTCCCGTACCAGGCGGCGGCTGGGGCGCCCCACGGACCTGTGTACCCGGCTCCT
AACGGGGCGCGCTACCCCTACGGCTCCATGCTGCCCCCCGGCGGCTTCCCCGCGGCTGTG
TGCCCACCCGGGAGGGCGCAGTTCGGCCCAGGAGCCGGTGCGGGCAGTGGCGCGGGCGGT
AGCAGCGGCGGGGGCGGCGGCCCGGGCACCTATCAGTACAGCCAGGGGGCTCCGCTCTAC
GGGCCGTACCCTGGAGCCGCAGCGGCGGGATCTTGCGGAGGACTGGGGGGCCTGGGGGTT
CCAGGTTCTGGCTTCCGTGCCCACGTCTACCTGTGCAACCGGCCTCTGTGGCTCAAATTC
CACCGCCACCAAACTGAGATGATCATTACGAAACAGGGCAGGCGCATGTTTCCTTTCTTG
AGCTTCAACATAAACGGACTCAATCCCACTGCCCACTACAATGTGTTCGTAGAGGTGGTG
CTGGCGGACCCCAACCACTGGCGCTTCCAGGGGGGCAAATGGGTGACCTGTGGCAAAGCC
GACAATAACATGCAGGGCAACAAAATGTATGTTCACCCAGAGTCTCCTAATACTGGTTCC
CACTGGATGAGACAGGAGATTTCATTCGGGAAATTAAAACTCACCAATAACAAAGGCGCA
AATAACAACAACACCCAGATGATAGTCTTACAATCCTTACACAAATACCAACCCCGACTG
CATATTGTTGAAGTTACAGAGGATGGCGTGGAGGACTTGAATGAGCCCTCAAAGACCCAG
ACTTTTACCTTCTCAGAAACGCAATTCATTGCAGTGACTGCCTACCAAAACACCGATATT
ACTCAACTAAAGATTGATCATAACCCCTTTGCAAAAGGCTTCAGAGACAACTATGATTCA
TCCCATCAGATTGTCCCTGGAGGTCGGTACGGCGTTCAATCCTTCTTCCCGGAGCCCTTT
GTCAACACTTTACCTCAAGCCCGCTATTATAATGGCGAGAGAACCGTGCCACAGACCAAC
GGCCTCCTTTCACCCCAACAGAGCGAAGAGGTGGCCAACCCTCCCCAGCGGTGGCTTGTC
ACGCCTGTCCAGCAACCTGGGACCAACAAACTAGACATCAGTTCCTATGAATCTGAATAT
ACTTCTAGCACATTGCTCCCATATGGCATTAAATCCTTGCCCCTTCAGACATCCCATGCC
CTGGGGTATTACCCAGACCCAACCTTTCCTGCAATGGCAGGGTGGGGAGGTCGAGGTTCT
TACCAGAGGAAGATGGCAGCTGGACTACCATGGACCTCCAGAACAAGCCCCACTGTGTTC
TCTGAAGATCAGCTCTCCAAGGAGAAAGTGAAAGAGGAAATTGGCTCTTCTTGGATAGAG
ACACCCCCTTCCATCAAATCTCTAGATTCCAATGATTCAGGAGTATACACCAGTGCTTGT
AAGCGAAGGCGGCTGTCTCCTAGCAACTCCAGTAATGAAAATTCACCCTCCATAAAGTGT
GAGGACATTAATGCTGAAGAGTATAGTAAAGACACCTCAAAAGGCATGGGAGGGTATTAT
GCTTTTTACACAACTCCCTAA
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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.
RefSeq:	NM_005442.2, NP_005433.2
RefSeq Size:	2756 bp
RefSeq ORF:	2061 bp
Locus ID:	8320
UniProt ID:	O95936, B7Z4K0
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.