

Product datasheet for **RC239368**

EOMES (NM_001278182) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EOMES (NM_001278182) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EOMES
Synonyms:	TBR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC239368 representing NM_001278182
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGTTAGGGGAGCAGCTCTTGGTGAGCTCAGTGAACCTGCCTGGCGGCACTTCTACCCGCTGGAGA
GTGCGCGAGGCGGCAGCGCGGGAGCGCTGGCCACCTCCCAGCGCGGCCCTCTCCTCAGAAGTTGGA
CTTAGACAAAGCGTCCAAGAAGTTTTCCGGCAGTCTCTCCTGCGAGGCGGTGAGCGGGGAGCCCGCAGCC
GCCAGCGCAGGGGCCCGCGGCCATGCTTAGTGACACCGACGCCGGGACGCATTTGCCAGCGCTGCGG
CAGTGGCCAAGCCGGGGCCCCGGACGGCCGAAGGGCTCCCCCTGCGGGGAGGAGGAGCTGCCCTCCGC
CGCTGCAGCCGCCCGCCGCCCGCCGGCTGCGGCCACTGCGCGCTACTCCATGGACAGCCTGAGC
TCCGAGCGGTACTACCTCAGTCCCCGGTCTCAGGGGTGGAGCTGGTGCGCCCTGCTCACTCTTCC
CGTACCAGGCGGGCTGGGGCGCCCCACGGACCTGTGTACCCGGCTCTAACGGGGCGCGCTACCCCTA
CGGCTCCATGCTCCCCCGCGGCTTCCCCGCGGCTGTGTGCCACCCGGGAGGGCGCAGTTTCGCCCCA
GGAGCCGGTGCAGGCAAGTGGCGCGGGCGGTAGCAGCGCGGGGGCGGGCGCCCGGCACCTATCAGTACA
GCCAGGGGGTCCGCTCTACGGGCCGTACCCTGGAGCCGACGCGCGGGATCTTGCGGAGGACTGGGGGG
CCTGGGGGTTCCAGTTCTGGCTTCCGTGCCACGTCTACCTGTGCAACCGGCCTCTGTGGCTCAAATTC
CACCGCCACAAACTGAGATGATCATTACGAAACAGGGCAGGCGCATGTTTCTTTCTTGAGCTTCAACA
TAAACGGACTCAATCCCCTGCCCCTACAATGTGTTTCGTAGAGGTGGTGGTGGCGGACCCCAACCACTG
GCGCTTCCAGGGGGCAAATGGGTGACCTGTGGCAAAGCCGACAATAACATGCAGGGCAACAAAATGTAT
GTTCAACCAGAGTCTCCTAATACTGGTTCCTGATGAGACAGGAGATTTTCATTCGGGAAATTAAC
TACCAATAACAAAGCGCAAATAACAACAACCCAGATGATAGTCTTACAATCCTTACACAAAACCA
ACCCCGACTGCATATTGTTGAAGTTACAGAGGATGGCGTGGAGGACTTGAATGAGCCCTCAAAGACCCAG
ACTTTTACCTTCTCAGAAACGCAATTCATTGCACTGACTGCCTACCAAAACACCGATTAATCAACTAA
AGATTGATCATAACCCCTTTGCAAAAGGCTTACAGAGCAACTATGATTCCATGTACACCGCTTACAGAAA
TGACAGGTTAACTCCATCTCCACGGATTCTCCTAGATCCCATCAGATTGTCCCTGGAGGTCCGTACGGC
GTTCAATCCTTCTCCCGGAGCCCTTTGTCAACACTTTACCTCAAGCCCGCTATTATAATGGCGAGAGAA
CCGTGCCACAGACCAACGGCTCCTTTACCCCAACAGAGCGAAGAGGTGGCCAACCTCCCCAGCGGTG
GCTTGTACGCTGTCCAGCAACCTGGGACCAACAACTAGACATCAGTTCCTATGAATCTGAATATACT
TCTAGCACATTGCTCCCATATGGCATTAAATCCTTGCCCTTCCAGACATCCCATGCCCTGGGGTATTACC
CAGACCCAACCTTCTCCTGCAATGGCAGGTTGGGAGGTGAGGTTCTTACCAGAGGAAGATGGCAGCTGG
ACTACCATGGACCTCCAGAAACAGCCCACTGTGTTCTCTGAAGATCAGCTCTCCAAGGAGAAAAGTAAA
GAGGAAATGGCTCTTCTGGATAGAGACACCCCTTCCATCAAATCTCTAGATTCCAAATGATTACAGGAG
TATACACCAGTGCTTGAAGCGAAGCGGCTGTCTCCTAGCAACTCCAGTAATGAAAATTCACCTCCAT
AAAGTGTGAGGACATTAATGCTGAAGAGTATAGTAAAGACACCTCAAAGGCATGGGAGGGTATTATGCT
TTTTACACAACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239368 representing NM_001278182
 Red=Cloning site Green=Tags(s)

MQLGEQLLVSSVNLPGAHFYPLESARGGSGGSAGHLPSAAPSPQKLDLKDASKKFSGLSCEAVSGEPAA
 ASAGAPAAMLSDTDAGDAFASAAAVAKPGPPDGRKGSPCGEEELPSAAAAAAAAAAAAAAAAATARYSMDSLS
 SERYYLQSPGPQGSSELAAPCSLFPYQAAAGAPHGPVYPAPNGARYPYGSMLPPGGFPAAVCPPGRAQFGP
 GAGAGSGAGSSGGGGPGTYQYSQGAPLYGPYPGAAAAGSCGGLGGLGVPGSGFRAHVYLCNRPLWLKF
 HRHQTEMIITKQGRMFPLSFNINGLNPTAHYNVFEVVLADPNHWRFGGKQWVTCGKADNNMQGNKMY
 VHPESPNTGSHWMRQEISFGKLLTNNKANNNTQMIVLQSLHKYQPRLHIVEVTEDEGVEDLNEPSKTQ
 TTFSETQFIAVTAYQNTDITQLKIDHNPFAKGFSDNYDSMYTASENDRLTPSPTDSPRSHQIVPGGRYG
 VQSFPEPFVNTLPQARYYNGERTVPQTNGLLSPQQSEEVANPPQRWL VTPVQQPGTNKLDISSYEYET
 SSTLLPYGIKSLPLQTSALGYDPDPTFAMAGWGGRGSYQRKMAAGLPWTSRTSPTVFSQDLSKEKVK
 EEIGSSWIETPPSIKSLDSNSGVYTSACKRRRLSPSNSNSNSPSIKCEDINAEYSKDTSKGMGGYYA
 FYTTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001278182

ORF Size: 2115 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_001278182.2](#)

RefSeq Size: 3674 bp

RefSeq ORF: 2118 bp

Locus ID: 8320

UniProt ID: [O95936](#)

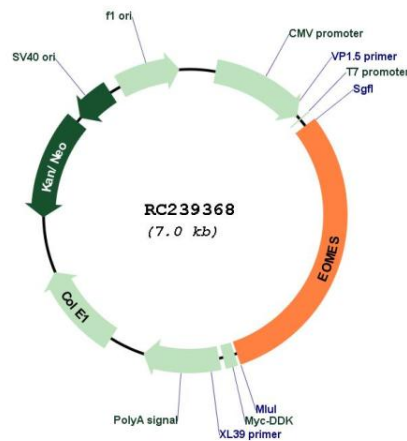
Cytogenetics: 3p24.1

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

MW: 75.3 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]

Product images:



Circular map for RC239368