

## Product datasheet for RC238048

### EOMES (NM\_001278183) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EOMES (NM_001278183) 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)
ORF Nucleotide Sequence:	>RC238048 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCCTTTCTTGAGCTTCAACATAAACGGACTCAATCCCCTGCCCCTACAATGTGTTCTGATAGAGG  
TGGTGCTGGCGGACCCCAACCACTGGCGCTCCAGGGGGCAAATGGGTGACCTGTGGCAAAGCCGACAA  
TAACATGCAGGGCAACAAAATGTATGTTACCCAGAGTCTCTAATACTGGTTCCCCTGGATGAGACAG  
GAGATTTTCATTCGGGAAATTAACCACTACCAATAACAAAGGCGCAAATAACAACAACACCCAGATGATAG  
TCTTACAATCCTTACACAATACCAACCCGACTGCATATTGTTGAAGTTACAGAGGATGGCGTGGAGGA  
CTTGAATGAGCCCTCAAAGACCCAGACTTTTACCTTCTCAGAAACGCAATTCATTGCAGTACTGCCTAC  
CAAAACACCGATATTACTCAACTAAAGATTGATCATAACCCCTTTGCAAAAGGCTTCAGAGACAATATG  
ATTCCATGTACACCGCTTCAGAAAATGACAGGTTAACTCCATCTCCCACGGATTCTCCTAGATCCCATCA  
GATTGTCCCTGGAGGTCGGTACGGCGTTCAATCCTTCTCCCGGAGCCCTTTGTCAACACTTTACCTCAA  
GCCCGCTATTATAATGGCGAGAGAACCCTGCCACAGACCAACGGCCTCCTTTACCCCAACAGAGCGAAG  
AGGTGGCAACCCCTCCCAGCGGTGGCTTGTACGCCTGTCCAGCAACCTGGGACCAACAAACTAGACAT  
CAGTTCCTATGAATCTGAATATACTTCTAGCACATTGCTCCCATATGGCATTAAATCCTTGCCCTTCAG  
ACATCCCATGCCCTGGGTATTACCCAGACCAACCTTTCTGCAATGGCAGGGTGGGAGGTCGAGGTT  
CTTACCAGAGGAAGATGGCAGCTGGACTACCATGGACCTCCAGAACAAGCCCACTGTGTTCTCTGAAGA  
TCAGCTCTCCAAGGAGAAAGTGAAGAGGAAATGGCTCTTCTTGATAGAGACACCCCTTCCATCAAA  
TCTCTAGATTCCAATGATTCAGGAGTACACCACTGCTTGAAGCGAAGCGGCTGTCTCCTAGCAACT  
CCAGTAATGAAAATTCACCCTCCATAAAGTGTGAGGACATTAATGCTGAAGAGTATAGTAAAGACACCTC  
AAAAGGCATGGGAGGGTATTATGCTTTTTACACAACCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC238048 protein sequence  
 Red=Cloning site Green=Tags(s)

MFPFLSFNINGLNPTAHYNVFVEVVLADPNHWRFGGKQWVTCGKADNNMQGNKMYVHPESPNTGSHWMRQ  
 EISFGKCLKLTNNKGANNNTQMIVLQSLHKYQPRHLHIVEVTEDEGVEDLNEPSKTQTFTFSETQFIAVTAY  
 QNTDITQLKIDHNPFKAGFRDNYDSMYTASENDRLTSPSTDSRSHQIVPGGRYGVQSFPEPFVNTLPQ  
 ARYYNGERTVPQTNGLLSPQQSEEVANPPQRWL VTPVQQPGTNKLDISSYESEYTSSTLLPYGIKSLPLQ  
 TSHALGYYPDPTFPAMAGWGGRSYQRKMAAGLPWTSRTSPTVFSEDQLSKEKVKKEIGSSWIETPPSIK  
 SLDSNDSGVYTSACKRRRLSPSNSSNENSPSIKCEDINAEYSKDTSKGMGGYYAFYTTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001278183

**ORF Size:** 1230 bp

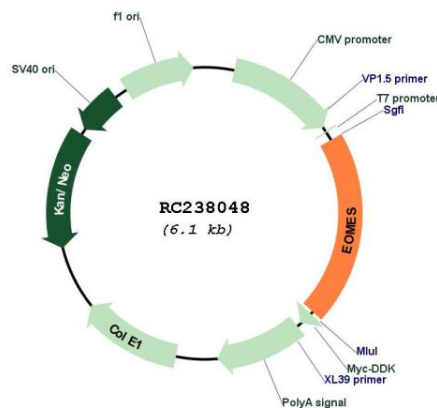
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001278183.1, NP_001265112.1</u>
<b>RefSeq Size:</b>	2658 bp
<b>RefSeq ORF:</b>	1233 bp
<b>Locus ID:</b>	8320
<b>UniProt ID:</b>	<u>O95936</u>
<b>Cytogenetics:</b>	3p24.1
<b>Protein Families:</b>	Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
<b>MW:</b>	46 kDa
<b>Gene Summary:</b>	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 RC238048