

## Product datasheet for **MC220687**

### **Eomes (NM\_010136) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Eomes (NM_010136) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eomes
Synonyms:	C77258; TBR-2; Tbr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220687 representing NM\_010136  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGTTGGGAGAGCAGCTCCTGGTGAGCTCGGTGAACCTGCCCGCGCGCACTTCTACTCGTGGAGA  
 GTGCTCGCGGAGGAGGAGGAGGAGGAGGCGGAGGAGGAGGGGAGGCGGAGGGAGCGTCAGCCTCCTCCC  
 CGGTGCTGCCCCCTCGCCCCAGAGGCTGGACTTAGACAAAGCGTCCAAGAAGTTCCGGGAGTCTCCCG  
 TGCCAGGCGGGGAGCGCAGAACCCGAGGCGCCGGCGCGGGGGCCCCGCGGCCATGCTCAGTGACGCGG  
 ACGCTGGGACACCTTCGGGAGCACCTCGGCGGTGGCCAAGCCGGGCCCCGGACGCGCCGAAGGGCTC  
 CCCGTGCGCGGAGGAGGAGTGCCTCCGCGCCACCGCCGCGGCCACCGCGCGTACTCCATGGACAGC  
 CTGAGCTCCGAGCGCTACTACCTCCCGTCGCGGGACCGCAGGGTCCGAGCTCGCCGCGCCTGCTCGC  
 TCTTCCAGTACCCGGCGCGGCCGGAGCAGCCACGGACCCGTGTACCCCGCTCCAATGGCGCGCCTA  
 CCCCTACGGCTCCATGCTGCCCCCGGTGGATTCCCCCGCGCGTGTGCCCGCCGCGAGGGCGCAGTTC  
 GGCCCCGCTGCGGGTTCGGGGAGCGGCGTGGTAGCAGCGCGGTGGTGC CGCGCGTCTGGCGCCTATC  
 CCTACGGCCAGGGTTCTCCGCTCTACGGGCCATACGCCGAACCTCAGCGGCCGGGTCTTGTGGAGGATT  
 GGGGGGCTAGGGGTGCCTGGCTCCGGCTTCGCGCCACGTCTACCTGTGCAACCGGCCCTATGGCTC  
 AAATCCACCGGCACAAACTGAGATGATCATCAACAAACAGGGCAGGCGCATGTTTCTTTCTTGAGCT  
 TCAACATAAACGGACTCAACCCACCGCCACTACAATGTTTTCGTGGAAGTGGTCTGGCCGACCTAA  
 CCACTGGCGCTTCAGGGGGCAAGTGGTGACCTGCGGCAAAGCGGACAATAACATGCAGGGCAATAAG  
 ATGTACGTTACCCAGAATCTCCTAACACTGGCTCCCCTGGATGAGGCAGGAGATTTCTTTGGGAAGT  
 TAAAATCACCAATAACAAAGGTGCAAAACAACAACACACAGATGATAGTGTTCAGCTCTGCACAA  
 ATACCAACCGAGGCTGCACATCGTGGAAGTGACAGAGGACGGTGTGGAGGACTGAATGAACCTTCCAAG  
 ACTCAGACCTTACCTTCTCAGAGACACAGTTCATCGCTGTGACGGCCTACCAAAACACGGATATACCC  
 AGCTAAAGATCGACCATAACCCCTTCGCAAGGCTTCGGGACAACACTACGATTCATGTACACGGCTTC  
 AGAAAAAGACAGGTTAACTCCATCTCCACGGATTCCCCTAGATCCCATCAGATTGTCCCTGGAGGTCGG  
 TACGGCGTTCAAACCTTCTCCCGAGCCCTTTGTCAACACTTTGCCTCAAGCCGATATTATAACGGTG  
 AGAGAACCGTGCCACAGACCAACGGCTCCTCTACCCCAACAGAGCGAAGAGGTGGCAACCTCCCCA  
 GCGGTGGCTTGTACGCCTGTCCAGCAACCTGTGACCAACAAGCTAGACATCGGTTCTTATGAATCTGAA  
 TATACTCCAGTACCTTGTCCCATATGGTATTAAGTCTTGCCCTGCAGACATCCCATGCCCTGGGGT  
 ATTACCCTGACCCGACCTTCCCTGCTATGGCAGGGTGGGAGGCCGTGGCGCTTATCAGAGGAAGATGGC  
 AGCTGGACTACCATGGACATCCAGAATGAGCCACCTGTCTTCCAGAAGATCAGCTTGCCAAGGAAAAA  
 GTTAAAGAAGAGATTAGTTCCTCCTGGATAGAGACTCCCCCTCCATCAAGTCTCTAGACTCCAGCGACT  
 CCGGGGTGTACAACAGCGCTTGAAGAGAAAGCGCCTGTCTCCAGCACCCCCAGCAATGGAAACTCGCC  
 CCCATAAAGTGTGAGGACATTAACACTGAAGAGTACAGTAAAGACACCTCCAAGGCATGGGGGCTTAT  
 TATGCTTTTTACACAAGTCCCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2246\\_e01.zip](https://cdn.origene.com/chromatograms/ja2246_e01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010136

**Insert Size:** 2124 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](#)

**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\\_010136.3](#), [NP\\_034266.2](#)

**RefSeq Size:** 3731 bp

**RefSeq ORF:** 2124 bp

**Locus ID:** 13813

**UniProt ID:** [O54839](#)

**Cytogenetics:** 9 F3

**Gene Summary:** Functions as a transcriptional activator playing a crucial role during development. Functions in trophoblast differentiation and later in gastrulation, regulating both mesoderm delamination and endoderm specification. Plays a role in brain development being required for the specification and the proliferation of the intermediate progenitor cells and their progeny in the cerebral cortex. Also involved in the differentiation of CD8+ T-cells during immune response regulating the expression of lytic effector genes.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).