

Product datasheet for **MG227087**

Eomes (NM_001164789) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eomes (NM_001164789) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eomes
Synonyms:	C77258; TBR-2; Tbr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG227087 representing NM_001164789
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCAGTTGGGAGAGCAGCTCCTGGTGAGCTCGGTGAACCTGCCCGCGCGCACTTCTACTCGTGGAGA
GTGCTCGCGGAGGAGGAGGAGGAGGAGGCGGAGGAGGAGGGGAGGCGGAGGGAGCGTCAGCCTCCTCCC
CGGTGCTGCCCTCGCCCAGAGGCTGGACTTAGACAAAGCGTCCAAGAAGTTCCGGGAGTCTCCCG
TGCCAGGCGGGGAGCGCAGAACCCGAGGCGCCGGCGCGGGGGCCCCGCGGCCATGCTCAGTGACGCGG
ACGCTGGGACACCTTCGGGAGCACCTCGGCGGTGGCCAAGCCGGGCCCCGGACGCGCCGAAGGGCTC
CCCGTGC GCGGAGGAGGAGCTGCCCTCCGCGCCACCGCCGCGGCCACCGCGCTACTCCATGGACAGC
CTGAGCTCCGAGCGCTACTACCTCCCGTCGCGGGACCGCAGGGCTCCGAGCTCGCCGCGCCCTGCTCGC
TCTTCCAGTACCGGCGCGGCCGGAGCAGCCACGGACCCGTGTACCCCGCTCCAATGGCGCGCGCTA
CCCCTACGGCTCCATGCTGCCCCCGGTGGATTCCCCCGCGCGTGTGCCCGCCGCGAGGGCGCAGTTC
GGCCCCGCTGCGGGTTCGGGGAGCGGCGTGGTAGCAGCGCGGTGGTGC CGGCGGTCTTGCGCCATC
CCTACGGCCAGGGTTCTCCGCTCTACGGGCCATACGCCGAACCTCAGCGGCCGGGTCTTGTGGAGGATT
GGGGGGCTAGGGGTGCCTGGCTCCGGCTTCGCGCCACGTCTACCTGTGCAACCGGCCCTATGGCTC
AAATCCACCGGCACAAACTGAGATGATCATCAACAAACAGGGCAGGCGCATGTTTCTTTCTTGAGCT
TCAACATAAACGGACTCAACCCACCGCCACTACAATGTTTTCGTGGAAGTGGTCTGGCCGACCCATA
CCACTGGCGCTTCAGGGGGCAAGTGGGTGACCTGCGGCAAAGCGGACAATAACATGCAGGGCAATAAG
ATGTACGTTACCCAGAATCTCCTAACACTGGCTCCACTGGATGAGGCAGGAGATTTCTTTGGGAAGT
TAAAACACCAATAACAAAGGTGCAAAACAACAACAACACACAGATGATAGTGTTCAGTCTCTGCACAA
ATACCAACCGAGGCTGCACATCGTGGAAGTGACAGAGGACGGTGTGGAGGACTTGAATGAACCTTCCAAG
ACTCAGACCTTACCTTCTCAGAGACACAGTTCATCGCTGTGACGGCCTACCAAAACACGGATATCACCC
AGCTAAAGATCGACCATAACCCCTTCGCAAAAGGCTTCGGGACAACACTACGATTCATCCCATCAGATTGT
CCCTGGAGGTCGGTACGGCGTTCAAACCTTCTCCCGAGCCCTTTGTCAACACTTTGCCTCAAGCCCGA
TATTATAACGGTGAGAGAACCGTGCCACAGACCAACGGCTCCTCTCACCCCAACAGAGCGAAGAGGTGG
CCAACCTCCCCAGCGGTGGCTTGTACGCCTGTCCAGCAACCTGTGACCAACAAGCTAGACATCGGTTT
TTATGAATCTGAATATACTTCCAGTACCTTGTCCCATATGGTATTAAGTCTTGCCCTGCAGACATCC
CATGCCCTGGGGTATTACCTGACCCGACCTTCCCTGCTATGGCAGGGTGGGAGGCCGTGGCGCTATC
AGAGGAAGATGGCAGCTGGACTACCATGGACATCCAGAATGAGCCACCTGTCTTCCAGAAAGATCAGCT
TGCCAAGGAAAAAGTTAAAGAAGAGATTAGTTCCTCCTGGATAGAGACTCCCCCTCCATCAAGTCTCTA
GACTCCAGCGACTCCGGGTGTACAACAGCGCTTGCAAGAGAAAGCGCCTGTCTCCAGCACCCCGAGCA
ATGGAAACTCGCCCCCATAAAGTGTGAGGACATTAACACTGAAGAGTACAGTAAAGACACCTCAAAGG
CATGGGGGCTTATTATGCTTTTTACACAAGTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG227087 representing NM_001164789
 Red=Cloning site Green=Tags(s)

MQLGEQLLVSSVNLPGAHFYSLESARGGGGGGGGGGGGGSVSLLPGAAPSPQRLDLKASKKFPGLP
 CQAGSAEPAGAGAPAAMLSDADAGDTFGSTSAAKPGPPDGRKGSPCAEEELPSAATAAATARYSMDS
 LSSERYLPSGPQGSSELAAPCSLFQYPAAGAHAHGPVYPASNGARYPYGSMPLPPGGFPAAVCPPARAQF
 GPAAGSGSGAGSSGGGAGGPGAYPYGQGSPLYGYPYAGTSAAGSCGGLGGLGVPGSGFRAHVYLCNRPLWL
 KFHRHQTEMIITKQRRMFPLSFNINGLNPTAHYNVFEVVLADPNHWRVFQGGKWVTCGKADNNMQGNK
 MYVHPESPNTGSHWMRQEISFGKLLKLTNNKANNNTQMIVLQSLHXYQPRHLIVEVTEDEVEDLNPEPSK
 TQTFTFSETQFIAVTAYQNTDITQLKIDHNPFAKGFDRDNYDSSHQIVPGGRYGVQNFPEPFVNTLPQAR
 YYNGERTVPQTGLLSPQQSEEVANPPQRWL VTPVQQPVTKLDIGSYEYTSSTLLPYGKISLPLQTS
 HALGYYPDPTFPAMAGWGGGAYQRKMAAGLPWTSRMSPPVFPEDQLAKEVKKEISSSWIETPPSIKSL
 DSSDSGVYNSACKRKRLSPSTPSNGNSPPIKCEDINTEEYSKDTSKGMGAYYAFYTSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164789

ORF Size: 2064 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_001164789.1](#), [NP_001158261.1](#)

RefSeq Size: 3674 bp

RefSeq ORF: 2067 bp

Locus ID: 13813

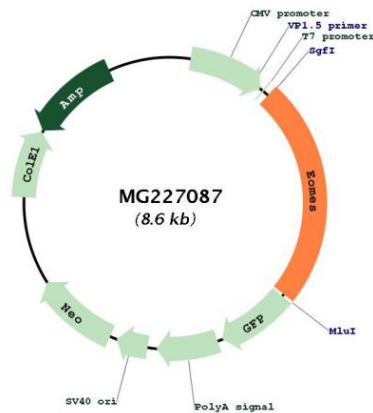
UniProt ID: [O54839](#)

Cytogenetics: 9 F3

MW: 72.7 kDa

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]

Product images:



Circular map for MG227087