

## Product datasheet for **MG225804**

### Meis1 (NM\_010789) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Meis1 (NM_010789) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Meis1
Synonyms:	C530044H18Rik; Evi8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225804 representing NM\_010789  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCAAAGGTACGACGACCTACCCATTATGGGGGTATGGATGGAGTAGGCATCCCCTCCACGATGT  
 ATGGGGACCCGCATGCAGCCAGGTCATGCAACCGGTCCACCACCTGAACCACGGGCTCCTCTGCACTC  
 GCATCAGTACCCGCACACAGCTCACACCAACGCCATGGCCCCAGCATGGGTTCTCGGTCAATGACGCT  
 TTAAAGAGAGATAAAGATGCCATTTATGGACACCCCTCTTCCCTCTCTTAGCACTGATTTTTGAGAAAT  
 GTGAATTAGTACTTGTACCCCGCGAGCCGGGGTGGCGGGGGGACGCTCTGCTCGTCAGAGTCATT  
 CAATGAAGATATAGCGGTGTTCCGCAAACAGATTCGCGCAGAAAACTCTATTCTTCTAATCCAGAA  
 CTGGATAACTTGATGATTCAAGCCATACAAGTGTAAAGTTTCATCTGTTGGAATTAGAGAAGGTACACG  
 AATTATGTGACAATTTCTGCCACCGGTATATTAGCTGTTGAAAGGGAAAATGCCTATCGATTTGGTGAT  
 AGATGATAGAGAAGGAGGATCAAAATCAGACAGTGAAGATGTAACAAGATCAGCAAACTAACTGACCAG  
 CCCTCTTGAATAGAGACCATGATGACACGGCATCCACTCGTTCAGGAGGAACCCCGGGCCCTCCAGCG  
 GTGGCCATACTTCACACAGTGGGGATAACAGCAGTGAGCAAGGTGATGGCTTGGACAACAGTGTAGCTTC  
 CCCCAGCACAGGTGACGATGATGACCCTGATAAGGACAAAAAGCGTCACAAAAAGCGTGGCATCTTTCCC  
 AAAGTAGCCACCAATATCATGAGGGCGTGGCTGTTCCAGCATCTAACACACCCCTTACCCTTCTGAAGAAC  
 AGAAAAAGCAGTTGGCACAAGATACAGGACTTACCATCCTTCAAGTGAACAATTGGTTTATTAATGCCCG  
 GAGAAGAATAGTCAGCCATGATAGACCAGTCCAACCGAGCAGTCAGCCAAGGGACACCTTATAACCTT  
 GATGGACAGCCAATGGGAGGTTTGTAAATGGACGGTCAGCAGCACATGGGCATCAGAGCGCCAGGGCTGC  
 AAAGTATGCCAGGGGAGTGTAGCCCGGGTGGCCCAATGGGTGTGAGTATGGGACAGCCGAGTTATAC  
 CCAAGCCAGATGCCCCCATCCTGCTCAGCTGCGTCATGGGCCCCCATGCATACGTACATTCCTGGA  
 CACCCTACCACCCCGCAGTGATGATGCATGGAGGACAGCCACCCTGGAATGCCAATGTCAGCTCAA  
 GCCCTCGGTTCTTAACACAGGAGACCCGACAATGAGTGACAAGTCATGGACATTCACGCTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225804 representing NM\_010789  
 Red=Cloning site Green=Tags(s)

MAQRYDDLPHYGGMDGVGIPSTMYGDPHAARSMQPVHHLNHGPPPLHSHQYPHTAHTNAMAPSMGSSVND  
 LKRDKDAIYGHPLFLLALIFEKCELATCTPREPGVAGGDVCSSESFNEDI AVFAKQIRAEKPLFSSNPE  
 LDNLMIQAIQVLRFHLLLEKVELCDNFCHRYISCLKGKMPIDLVIDDREGGSKSDESDVTRSANLTDQ  
 PSWNRDHDDTASTRSGGTPGPSSGGHTSHSGDNSSEQGDGLDNSVASPSTGDDDDPKDKKRHKRGI  
 K VATNIMRAWL FQHL THPYPSEEQKKQLAQDTGLTILQVNNWF INARRRIVQPMIDQSNRAVSQGT  
 PYNP DGQPMGGFVMDGQQHMGI RAPGLQSMPGEYVARGGPMGVS MGQPSYTAQMPHPAQLRHGPPMHTYIP  
 G HPHHPAVMMHGGQPHPGMPMSASSPSVLNTGDPTMSAQVMDIHAQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

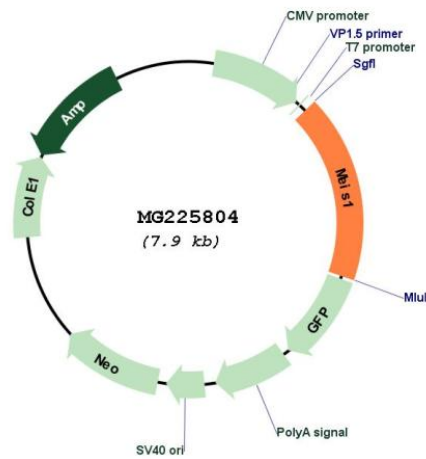
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_010789

ORF Size: 1395 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_010789.3</a>, <a href="#">NP_034919.1</a></p>
<b>RefSeq Size:</b>	<p>3346 bp</p>
<b>RefSeq ORF:</b>	<p>1398 bp</p>
<b>Locus ID:</b>	<p>17268</p>
<b>UniProt ID:</b>	<p><a href="#">Q60954</a></p>
<b>Cytogenetics:</b>	<p>11 11.11 cM</p>
<b>Gene Summary:</b>	<p>Acts as a transcriptional regulator of PAX6. Also acts as a transcriptional activator of PF4 in complex with PBX1 or PBX2. Required for hematopoiesis, megakaryocyte lineage development and vascular patterning. May function as a cofactor for HOXA7 and HOXA9 in the induction of myeloid leukemias.[UniProtKB/Swiss-Prot Function]</p>