

## Product datasheet for **MG226561**

### Meis2 (NM\_010825) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Meis2 (NM_010825) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Meis2
Synonyms:	A430109D20Rik; Meij; Mrg; Mrg1; Str; Stra10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG226561 representing NM\_010825  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGTTCCCGCTTCCATGT  
 ACGGAGACCCCTCACGCGCGCGCCGATCCCCCGGTTACCACCTAAACCACGGCCGCCGCTCCACGC  
 CACGCAGCACTACGGCGCGCACGCCCGCACCCCAATGTCATGCCAGCCAGCATGGGATCTGCTGTCAAC  
 GACGCCTTGAAGAGACAAGGACGCAATCTATGGGCACCCGTTGTTTCTCTGTAGCTCTGGTTTTTG  
 AGAAGTGCAGCTGGCGACCTGCACTCCCCGGAAACCGGAGTGGCCGGCGGAGACGTCTGTTCTCTGA  
 CTCCTTCAACGAGGACATCGCGTCTTCGCAAGCAGTTCGCGCGAAAAAGCCTTTTTTCTCAAAC  
 CCAGAGCTGGATAATTTGATGATACAAGCAATCAAGTACTAAGGTTTCATCTTCTGGAGTTAGAAAAGG  
 TCCACGAACTATGTATAACTTCTGCCACCGGTACATTAGCTGTTGAAGGGAAAAATGCCATTGACCT  
 CGTGATTGATGAGAGAGATGGAAGCTCCAAGTCAGATCATGAAGAACTTTCAGGCTCCTCCACAAATCTC  
 GCCGACCACAACCTTCACTCCTGGCGAGACCACGATGACGCAACCTCAACGCACTCCGCAGGCACCCAG  
 GACCTCCAGTGGGGCCATGCTTCCCAGAGTGGAGACAACAGCAGTGAGCAAGGCGATGGGTTAGACAA  
 CAGCGTAGCTTCACTGGCACAGGTGATGACGACGATCCAGACAAGGACAAAAACGCCAGAAGAAAAGA  
 GGCATATCCCCAAAGTCGCGACAAATATCATGAGAGCGTGGCTCTTCCAGCATCTCACACCCCGTACC  
 CTTCAGAAGAACAGAAGAAACAGTTAGCGCAAGACACGGGACTGACAATTCTGCAAGTGAACAATTGGTT  
 TATCAATGCCAGAAGAAGATAGTGCAGCCATGATTGACCAGTCAAATCGAGCAGTGAGCAAGGAGCA  
 GCGTATAGTCCAGAGGTCCAGCCATGGGGAGCTTTGTGTTGGATGGTCAACAACATGGGGATGGCCCA  
 CTCGAGGTTTGCAGAGCATGCCAGGGGACTACGTTTCTCAGGTTGGTCCAATGGGAATGGGATGGCCCA  
 GCCAAGTTACACTCCTCCCCAGATGACCCACACCCCTACTCAGTTAAGACATGGACCCCAATGCATTCA  
 TATTTGCCAAGCCATCCCCACCACCCAGCCATGGTATGACGAGGACCCCTACCCACCTGGATGA  
 CTATGTACGACAGAGCCCAATGTTAAATTCTGTAGATCCCAATGTTGGCGACAGGTTATGGACAT  
 TCATGCCCAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG226561 representing NM\_010825  
 Red=Cloning site Green=Tags(s)

MAQRYDELPHYGGMDGVGPASMYGDPHAPRPIPPVHHLNHGPPPLHATQHYGAHAPHNPVMPASMGSAVN  
 DALKRDKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSDFNEDIAVFAKQVRAEKPLFSSN  
 PELDNLMIQAIQVLRFHLLLEKVVHELCDNFCHRYISCLKGKMPIDLVIDERDGSKSDHEELSGSSTNL  
 ADHNPSSWRDHDATSTHSAGTPGPSSGGHASQSGDNSSEQGDGLDNSVASPGTGDDDDDPDKKRQKKR  
 GIFPKVATNIMRAWLFQHLTHYPYSEEQKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAVSQGA  
 AYSPEGQPMGSFVLDGQQHMGIRPAGLQSMPGDYVSQGGPMGMMAQPSYTPPQMTPHPTQLRHGPPMHS  
 YLPSHPHPAMVMHGGPPTHPGMTMSAQSPTMLNSVDPNVGGQVMDIHAQ

**TR**TRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010825

**ORF Size:** 1410 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\\_010825.2](#)

**RefSeq Size:** 4621 bp

**RefSeq ORF:** 1413 bp

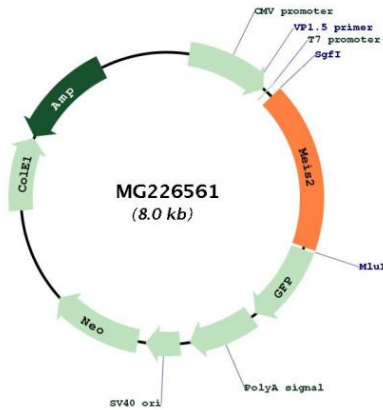
**Locus ID:** 17536

**UniProt ID:** [P97367](#)

**Cytogenetics:** 2 58.28 cM

**Gene Summary:** This gene encodes a homeobox protein belonging to the TALE ('three amino acid loop extension') family of homeodomain-containing proteins. TALE homeobox proteins are highly conserved transcriptional regulators and several members have been shown to be essential contributors to developmental programs. In mice, a knock-out of this gene leads to lethality at embryonic day 14, accompanied with hemorrhaging. Embryos lacking this gene show defects in tissues derived from the neural crest, suggesting a critical role of this gene during cranial and cardiac neural crest cell development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

**Product images:**



Circular map for MG226561