

## Product datasheet for **MC216471**

### Meis2 (NM\_010825) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Meis2 (NM_010825) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Meis2
Synonyms:	A430109D20Rik; Meij; Mrg; Mrg1; Str; Stra10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216471 representing NM\_010825  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGTTCCCGCTTCCATGT  
 ACGGAGACCCTCACGCGCGCGCCGATCCCCCGGTTACCACCTAAACCACGGGCCGCCGCTCCACGC  
 CACGCAGCACTACGGCGCGCACGCCCGCACCCCAATGTCATGCCAGCCAGCATGGGATCTGCTGTCAAC  
 GACGCCTTAAAAAGAGACAAGGACGCAATCTATGGGCACCCGTTGTTTCTCTGTAGCTCTGGTTTTTG  
 AGAAGTGCAGCTGGCGACCTGCACTCCCCGGAAACCGGAGTGGCCGGCGGAGACGTCTGTTCTCTGA  
 CTCCTTCAACGAGGACATCGCGTCTTCGCAAGCAGTTCGCGCCGAAAAGCCTCTTTTTCTCAAAC  
 CCAGAGCTGGATAATTTGATGATACAAGCAATCAAGTACTAAGGTTTCATCTTCTGGAGTTAGAAAAGG  
 TCCACGAACTATGTGATAACTTCTGCCACCGGTACATTAGCTGTTGAAGGGAAAAATGCCATTGACCT  
 CGTGATTGATGAGAGAGATGGAAGCTCCAAGTCAGATCATGAAGAATTTAGGCTCCTCCACAAATCTC  
 GCCGACCACAACCTTCACTCCTGGCGAGACCAGATGACGCAACCTCAACGCACTCCGCAGGCACCCAG  
 GACCTCCAGTGGGGGCCATGCTTCCCAGAGTGGAGACAACAGCAGTGAGCAAGGCGATGGGTTAGACAA  
 CAGCGTAGCTTCACTGGCACAGGTGATGACGACGATCCAGACAAGGACAAAAACGCCAGAAGAAAAGA  
 GGCATATCCCCAAAGTCGCGACAAATATCATGAGAGCGTGGCTCTTCCAGCATCTCACACCCGTACC  
 TTTCAGAAGAACAGAAGAAACAGTTAGCGCAAGACACGGGACTGACAATCTGCAAGTGAACAACTGGTT  
 TATCAATGCCAGAAGAAGAAATAGTGCAGCCATGATTGACCAGTCAAATCGAGCAGTGAGCCAAGGAGCA  
 GCGTATAGTCCAGAGGGTCAGCCATGGGGAGCTTTGTGTTGGATGGTCAGCAACACATGGGGATCCGGC  
 CTGCAGGTTTGCAGAGCATGCCAGGGGACTACGTTTCTCAGGTTGGTCCAATGGGAATGGGCAATGGCCCA  
 GCCAAGTTACACTCCTCCCCAGATGACCCACACCCTACTCAGTTAAGACATGGACCCCAATGCATTCA  
 TATTTGCCAAGCCATCCCCACCACCCAGCCATGGTATGACGAGGACCCCTACCCACCTGGAAATGA  
 CTATGTACAGCACAGGCCCCACAATGTTAAATTCTGTAGATCCCAATGTTGGCGGACAGGTTATGGACAT  
 TCATGCCCAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_010825

**Insert Size:** 1413 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_010825.3](#), [NP\\_034955.1](#)

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]

Transcript Variant: This variant (2) differs in the 5' UTR, and has multiple differences in the coding region, compared to variant 9. The encoded isoform (2) is shorter and has a distinct N-terminus compared to isoform 9. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.