OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR226564

Meis2 (NM_001136072) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meis2 (NM_001136072) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Meis2
Synonyms:	A430109D20Rik; Mei; Mrg; Mrg1; Str; Stra10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR226564 representing NM_001136072
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGGTTCCCGCTTCCATGT
ACGGAGACCCTCACGCGCCGCGGCCGATCCCCCCGGTTCACCACCTAAACCACGGGCCGCCGCTCCACGC
CACGCAGCACTACGGCGCGCACGCCCCGCACCCCAATGTCATGCCAGCCAGCATGGGATCTGCTGTCAAC
GACGCCTTGAAAAGAGACAAGGACGCAATCTATGGGCACCCGTTGTTTCCTCTGTTAGCTCTGGTTTTTG
AGAAGTGCGAGCTGGCGACCTGCACTCCCCGGGAACCCGGAGTGGCCGGCGGAGACGTCTGTTCCTCTGA
CTCCTTCAACGAGGACATCGCGGTCTTCGCCAAGCAGGTTCGCGCCGAAAAGCCTCTTTTTTCCTCAAAC
CCAGAGCTGGATAATTTGATGATACAAGCAATTCAAGTACTAAGGTTTCATCTTCTGGAGTTAGAAAAGG
TCCACGAACTATGTGATAACTTCTGCCACCGGTACATTAGCTGTTTGAAGGGAAAAATGCCCATTGACCT
CGTGATTGATGAGAGAGATGGAAGCTCCAAGTCAGATCATGAAGAACTTTCAGGCTCCTCCACAAATCTC
GCCGACCACAACCCTTCATCCTGGCGAGACCACGATGACGCAACCTCAACGCACTCCGCAGGCACCCCAG
GACCCTCCAGTGGGGGCCATGCTTCCCAGAGTGGAGACAACAGCAGTGAGCAAGGCGATGGGTTAGACAA
CAGCGTAGCTTCACCTGGCACAGGTGATGACGACGATCCAGACAAGGACAAAAAACGCCAGAAGAAAAGA
GGCATATTCCCCAAAGTCGCGACAAATATCATGAGAGCGTGGCTCTTCCAGCATCTCACACACCCGTACC
CTTCAGAAGAACAGAAGAAACAGTTAGCGCAAGACACGGGACTGACAATTCTGCAAGTGAACAACTGGTT
TATCAATGCCAGAAGAAGAATAGTGCAGCCCATGATTGACCAGTCAAATCGAGCAGTGAGCCAAGGAGCA
GCGTATAGTCCAGAGGGTCAGCCCATGGGGAGCTTTGTGTTGGATGGTCAGCAACACATGGGGATCCGGC
CTGCAGGACCCATGAGTGGAATGGGCATGAATATGGGCATGGATGGGCAGTGGCACTATATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR226564 representing NM_001136072
Red=Cloning site Green=Tags(s)

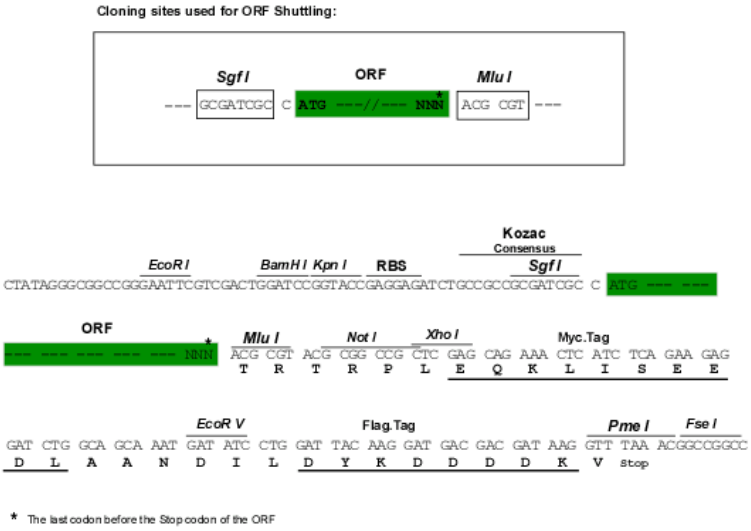
MAQRYDELPHYGGMDGVGVPASMYGDPHAPRPIPPVHHLNHGPPLHATQHYGAHAPHPNVMPASMGSAVN
DALKRDKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSSDSFNEDIAVFAKQVRAEKPLFSSN
PELDNLMIQAIQVLRFHLLELEKVHELCDNFCHRYISCLKGKMPIDLVIDERDGSSKSDHEELSGSSTNL
ADHNPSSWRDHDDATSTHSAGTPGPSSGGHASQSGDNSSEQGDGLDNSVASPGTGDDDDPDKDKKRQKKR
GIFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAVSQGA
AYSPEGQPMGSFVLDGQQHMGIRPAGPMSGMGMNMGMDGQWHYM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001136072

ORF Size:

1182 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 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

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_001136072.2, NP_001129544.1

RefSeq Size: 4716 bp

RefSeq ORF: 1185 bp

Locus ID: 17536

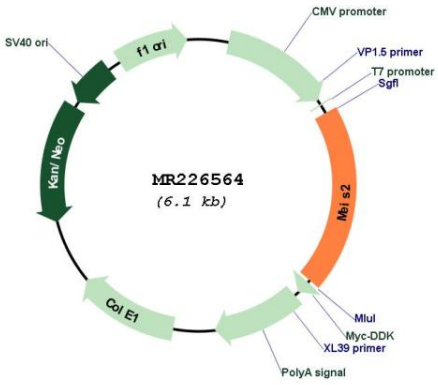
UniProt ID: P97367

Cytogenetics: 2 58.28 cM

MW: 43.5 kDa

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 MR226564