

Product datasheet for **MR226573**

Meis2 (NM_001159570) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Meis2 (NM_001159570) 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: >MR226573 representing NM_001159570
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCTGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGGTTCCCGTTCATGTACG
GAGACCTCACGCGCCGCGCCGATCCCCCGTTACCACCTAAACCACGGGCCCGCTCCACGCCAC
GCAGCACTACGGCGCGCACGCCCGCACCCCAATGTCATGCCAGCCAGCATGGGATCTGTGTCAACGAC
GCCTTGAAAAGAGACAAGGACGCAATCTATGGCACCCGTTGTTCTCTGTTAGCTCTGGTTTTTGAGA
AGTGCAGCTGGCGACCTGCACTCCCCGGGAACCCGGAGTGGCCGGCGGAGACGCTGTCTCTGACTC
TTCAACGAGGACATCGCGGTCTTCGCCAAGCAGGTTTCGCGCCGAAAAGCCTCTTTTTCTCAAACCCA
GAGCTGGATAATTTGATGATACAAGCAATCAAGTACTAAGGTTTCATCTTCTGGAGTTAGAAAAGGTCC
ACGAACTATGTGATAACTTCTGCCACCGGTACATTAGCTGTTGAAGGGAAAAATGCCCATTGACCTCGT
GATTGATGAGAGAGATGGAAGCTCCAAGTCAGATCATGAAGAATTTTCAGGCTCTCCACAAATCTCGCC
GACCACAACCTTCATCTGGCGAGACCACGATGACGCAACCTCAACGCACTCCGAGGCACCCAGGAC
CCTCCAGTGGGGCCATGCTTCCAGAGTGGAGACAACAGCAGTGAAGGCGATGGGTTAGACAACAG
CGTAGCTTACCTGGCACAGGTGATGACGACGATCCAGACAAGGACAAAAACGCCAGAAGAAAAGAGGC
ATATCCCCAAAGTCGCGACAAATATCATGAGAGCGTGGCTCTTCCAGCATCTCACACCCGTACCTT
CAGAAGAACAGAAGAAACAGTTAGCGCAAGACACGGGACTGACAATTCTGCAAGTGAACAACCTGGTTTAT
CAATGCCAGAAGAAGAAATAGTGCAGCCATGATTGACCAGTCAAATCGAGCAGTGAAGCAAGGAGCAGCG
TATAGTCCAGAGGGTCAGCCATGGGGAGCTTTGTGTTGGATGGTCAACACATGGGGATCCGGCCTG
CAGGACCCATGAGTGAATGGGCATGAATATGGGCATGGATGGGCAGTGGCACTATATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR226573 representing NM_001159570
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MFLYDELPHYGGMDGVGPASMYGDPHAPRPIPPVHHLNHGPPLHATQHYGAHAPHNPVMPASMGSAVND
 ALKRDKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSDFSFNEDIAVFAKQVRAEKPLFSSNP
 ELDNLMIQAIQVLRFHLELEKVELCDNFCHRYISCLKGMKPIDLVIDERDGSKSDHEELSGSSTNLA
 DHNPSSWRDHDDATSTHSAGTPGPSSGGHASQSGDNSSEQDGLDNSVASPGTGDDDDPDKDKRQKKRG
 IFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAVSQGAA
 YSPEGQPMGSFVLDGQQHMGIRPAGPMSGMGMNMGMDDGQWHYM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159570

ORF Size: 1179 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_001159570.2](#)

RefSeq Size: 4989 bp

RefSeq ORF: 1182 bp

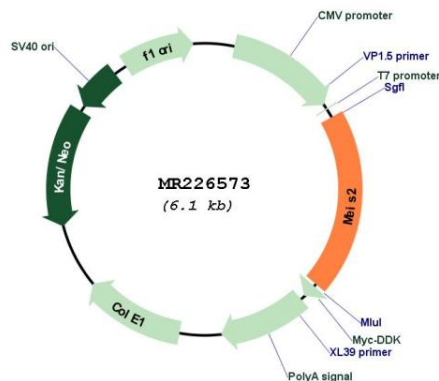
Locus ID: 17536

Cytogenetics: 2 58.28 cM

MW: 43.4 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 MR226573