

Product datasheet for **RG201395**

MEIS2 (NM_002399) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEIS2 (NM_002399) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEIS2
Synonyms:	CPCMR; HsT18361; MRG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201395 representing NM_002399 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGAGTAGGGTTCCCGCTTCCATGTACGGAGACCCTCACGCGCCGCGGCCGATCCCCCGGTTCC
ACCACCTGAACCACGGGCGCCGCTCCACGCCACACAGCACTACGGCGCGCACGCCCGCACCCCAATGT
CATGCCGGCCAGTATGGGATCCGCTGTCAACGACGCCCTGAAGCGGGACAAGGACGCGATCTATGGGCAC
CCGTTGTTTCTCTGTTAGCTCTGGTCTTTGAGAAGTGCAGCTGGCGACCTGCACTCCCCGGGAACCTG
GAGTGGCTGGCGGAGACGTCTGCTCCTCCGACTCCTTCAACGAGGACATCGCGGTCTTCGCAAGCAGGT
TCGCGCCGAAAAGCCACTTTTTTCTCAAATCCAGAGCTGGACAATTTGATGATACAAGCAATACAAGTA
CTAAGGTTTCATCTTTGGAGTTAGAAAAGGTCCACGAAGTGTGCGATAACTTCTGCCACCGATACATTA
GCTGTTTGAAGGGGAAAAATGCCATCGACTCGTCAATTGATGAAAGAGACGGCAGCTCCAAGTCAGATCA
TGAAGAACTTTCAGGCTCCTCCACAAATCTCGTGACCATAACCTTCTTCTTGGCGAGACCACGATGAT
GCAACCTCAACCCACTCAGCAGGCACCCAGGGCCCTCCAGTGGGGCCATGCTTCCAGAGCGGAGACA
ACAGCAGTGAGCAAGGGGATGGTTAGACAACAGTGTAGCTTACCTGGTACAGGTGACGATGATGATCC
GGATAAGGACAAAAACGCCAGAAGAAAAGAGGCATTTTCCCAAAGTAGCAACAAATATCATGAGAGCA
GACTTACAATTCTCCAAGTAAACAAGTGGTTTATTAATGCCAGAAGAAGAAATAGTACAGCCCATGATTGA
CCAGTCAAATCGAGCAGTGAAGCAAGGAGCAGCATATAGTCCAGAGGGTCAAGCCATGGGGAGCTTTGTG
TTGGATGGTCAGCAACACATGGGGATCCGGCTGCAGGACCTATGAGTGGAAATGGGCATGAATATGGGCA
TGGATGGCAATGGCACTACATG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201395 representing NM_002399
Red=Cloning site Green=Tags(s)

```
MDGVGVPMASMYGDPHAPRPIPPVHHLNHGPPLHATQHYGAHAPHPNVMPASMGSAVNDALKRDKDAIYGH
PLFPLLALVFEKCELATCTPREPGVAGGDVCSDFSFNEDIAVFAKQVRAEKPLFSSNPELDNLMIQAIQV
LRFHLLLELEKVHELCDNFCHRYISCLKGMKPIDLVIDERDGSKSDHEELSGSSTNLADHNPSSWRDHHDD
ATSTHSAGTPGPSGGHASQSGDNSSEQDGLDNSVASPGTGDDDDDPDKDKKRQKKRGI FPKVATNIMRA
WLFQHLTHPYPSEEQKKQLAQDTGLTILQVNNWF INARRRIVQPMIDQSNRAVSQGAAYSPEGQPMGSFV
LDGQQHMGIRPAGPMSGMGMMDGQWHYM
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002399

ORF Size: 1143 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_002399.3](#)

RefSeq Size: 3110 bp

RefSeq ORF: 1146 bp

Locus ID: 4212

UniProt ID: [O14770](#)

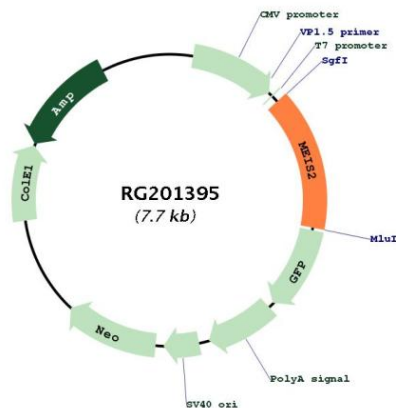
Cytogenetics: 15q14

Domains: homeobox

Protein Families: Transcription Factors

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 transcription regulators, and several members have been shown to be essential contributors to developmental programs. Multiple transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201395