

Product datasheet for **RG222807**

MEIS2 (NM_170677) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MEIS2 (NM_170677) 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: >RG222807 representing NM_170677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCAAAGGTACGATGAGCTGCCCATACGGCGGGATGGACGGAGTAGGGGTTCCCGCTTCCATGT
 ACGGAGACCTCACGCGCCGCGCCGATCCCCCGTTACCACCTGAACCACGGGCCGCCGCTCCACGC
 CACACAGCACTACGGCGCGCACGCCCGCACCCCAATGTCATGCCGGCCAGTATGGGATCCGCTGTCAAC
 GACGCCTGAAGCGGGACAAGGACGCGATCTATGGCACCCGTTGTTCCCTCTGTTAGCTCTGGTCTTTG
 AGAAGTGCAGCTGGCGACCTGCACTCCCCGGAACTGGAGTGGCTGGCGGAGACGTCTGCTCCTCCGA
 CTCTTCAACGAGGACATCGCGGTCTTCGCAAGCAGGTTTCGCGCGAAAAGCCACTTTTTCTCAAAAT
 CCAGAGCTGGACAATTTGATGATACAAGCAATACAAGTACTAAGGTTTCATCTTTTGAGTTAGAAAAGG
 TCCACGAACTGTGCGATAACTTCTGCCACCGATACATTAGCTGTTTGAAGGGGAAAATGCCCATCGACCT
 CGTCATTGATGAAAGAGACGGCAGCTCCAAGTCAGATCATGAAGAATTTTCAGGCTCCTCCACAAATCTC
 GCTGACCATAACCCTTCTTGGCGAGACCACGATGATGCAACCTCAACCCACTCAGCAGGCACCCAG
 GGCCCTCCAGTGGGGCCATGCTTCCAGAGCGGAGACAACAGCAGTGAAGCAAGGGGATGGTTTAGACAA
 CAGTGTAGCTTACCTGGTACAGGTGACGATGATGATCCGGATAAGGACAAAAACGCCAGAAGAAAAGA
 GGCATTTTCCCAAAGTAGCAACAAATATCATGAGAGCATGGCTTCCAGCATCTCACACATCCGTACC
 CTCCGAAGAGCAGAAGAACAGTTAGCGCAAGCACAGGACTTACAATTCTCCAAGTAAACAACCTGGTT
 TATTAATGCCAGAAGAAGTATGACAGCCATGATTGACCAGTCAAATCGAGCAGGTTTTCTTCTTGAT
 CCTTCAGTGAGCCAAGGAGCAGCATATAGTCCAGAGGGTCAGCCCATGGGGAGCTTTGTGTTGGATGGTC
 AGCAACACATGGGGATCCGGCCTGCAGGACCTATGAGTGGAAATGGGCATGAATATGGGCATGGATGGGCA
 ATGGCACTACATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222807 representing NM_170677
 Red=Cloning site Green=Tags(s)

MAQRYDELPHYGGMDGVGPASMYGDPHAPRPIPPVHHLNHGPPPLHATQHYGAHAPHNPVMPASMGSAVN
 DALKRDKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSDFNEDIAVFAKQVRAEKPLFSSN
 PELDNLMIQAIQVLRFHILLELEKVELCDNFCHRYISCLKGKMPIDLVIDERDGSKSDHEELSGSSTNL
 ADHNPSSWRDHDDATSTHSAGTPGPSSGGHASQSGDNSSEQGDGLDNSVASPGTGDDDDPKDKKRQKKR
 GIFPKVATNIMRAWLFQHLTHYPSEEQKKQLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAGFLLD
 PSVSQGAAYSPEGQPMGSFVLDGQQHMGIRPAGPMSGMGMNMGMDGQWHYM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_170677

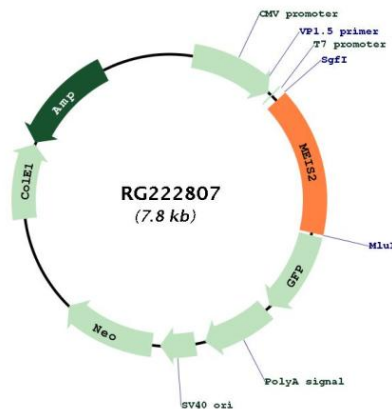
ORF Size: 1203 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_170677.5</u>
RefSeq Size:	3721 bp
RefSeq ORF:	1206 bp
Locus ID:	4212
UniProt ID:	<u>O14770</u>
Cytogenetics:	15q14
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 RG222807