

Product datasheet for **RG223724**

MEIS2 (NM_170675) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEIS2 (NM_170675) 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)



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ORF Nucleotide Sequence:

>RG223724 representing NM_170675
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGTTCCCGCTTCCATGT
 ACGGAGACCCCTCACGCGCGCGCGCGATCCCCCGGTTACCACCTGAACCACGGGCCGCCGCTCCACGC
 CACACAGCACTACGGCGCGCACGCCCGCACCCCAATGTCATGCCGCGCCAGTATGGGATCCGCTGTCAAC
 GACGCCTTGAAGCGGGACAAGGACGCGATCTATGGGCACCCGTTGTTTCTCTGTAGCTCTGGTCTTTG
 AGAAGTGCAGCTGGCGACCTGCACTCCCCGGAACTGGAGTGGCTGGCGGAGACGTCTGCTCCTCCGA
 CTCCTTCAACGAGGACATCGCGTCTTCGCAAGCAGGTCGCGCCGAAAAGCCACTTTTTCTCAAAT
 CCAGAGCTGGACAATTTGATGATACAAGCAATACAAGTACTAAGGTTTCATCTTTGGAGTTAGAAAAGG
 TCCACGAACTGTGCGATAACTTCTGCCACCGATACATTAGCTGTTGAAGGGGAAAATGCCATCGACCT
 CGTCATTGATGAAAGAGACGGCAGCTCCAAGTCAGATCATGAAGAAGTTTCAGGCTCCTCCACAAATCTC
 GCTGACCATAACCTTCTTCTTGGCGAGACCACGATGATGCAACCTCAACCCACTCAGCAGGCACCCAG
 GGCCCTCCAGTGGGGGCCATGCTTCCCAGAGCGGAGACAACAGCAGTGAAGCAAGGGGATGGTTAGACAA
 CAGTGTAGCTTACCTGGTACAGGTGACGATGATGATCCGGATAAGGACAAAAACGCCAGAAGAAAAGA
 GGCATTTTCCCCAAAGTAGCAACAAATATCATGAGAGCATGGCTCTTCCAGCATCTCACACATCCGTACC
 CTTCCGAAGAGCAGAAGAAACAGTTAGCGCAAGACACAGGACTTACAATTCTCCAAGTAAACAATGGTT
 TATTAATGCCAGAAGAAGATAGTACAGCCATGATTGACCAGTCAAATCGAGCAGGTTTCTTCTTGAT
 CCTTCAGTGAGCCAAGGAGCAGCATATAGTCCAGAGGTCAGCCCATGGGAGCTTTGTGTTGGATGGTC
 AGCAACACATGGGATCCGGCTGCAGGTTTGCAGAGCATGCCAGGGGACTACGTTTCTCAGGGTGGTCC
 TATGGGAATGAGTATGGCACAGCCAAGTTACACTCCTCCCAGATGACCCACACCCCTACTCAATTAAGA
 CATGGACCCCAATGCATTCATATTTGCCAAGCCATCCCCACCACCCAGCCATGATGATGCACGGAGGAC
 CCCCTACCACCTGGAATGACTATGTCAGCACAGAGCCCAACAATGTTAAATTCTGTAGATCCCAATGT
 TGGCGGACAGGTTATGGACATTCATGCCCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223724 representing NM_170675
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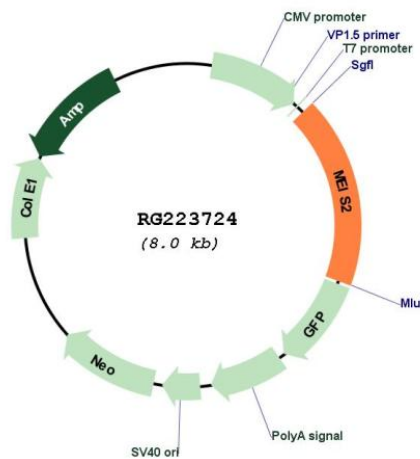
MAQRYDELPHYGGMDGVGPASMYGDPHAPRPIPPVHHLNHGPPPLHATQHYGAHAPHPNVMPASMGSAVN
 DALKRDKDAIYGHPLFPLLALVFEKCELATCTPREPGVAGGDVCSDFSFNEDIAVFAKQVRAEKPLFSSN
 PELDNLMIQAIQVLRFHLLLELEKVHELCDNFCHRYISCLKGKMPIDLVIDERDGSKSDHEELSGSSTNL
 ADHNPSSWRDHDATSTHSAGTPGPSSGGHASQSGDNSSEQGDGLDNSVASPGTGDDDDDPDKKRQKKR
 GIFPKVATNIMRAWLFQHLTHYPYSEEQKKLAQDTGLTILQVNNWFINARRRIVQPMIDQSNRAGFLLD
 PSVSQGAAYSPEGQPMGSFVLDGQQHMGIRPAGLQSMGPDYVSQGGPMGMSMAQPSYTPPQMPHPTQLR
 HGPPMHSYLPSPHHPAMMMHGGPPTHGTMMSAQSPTMLNSVDPNVGGQVMDIHAQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_170675

ORF Size: 1431 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_170675.5](#)

RefSeq Size: 3625 bp

RefSeq ORF: 1434 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]