

## Product datasheet for **SC310346**

### MEIS2 (NM\_170675) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEIS2 (NM_170675) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEIS2
Synonyms:	CPCMR; HsT18361; MRG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310346 representing NM\_170675.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGGTTCCCGCTCCATG
TACGGAGACCCCTACGCGCCGCGCCGATCCCCCGGTTACACACTGAACCACGGGCCCGCGCTCCAC
GCCACACAGCACTACGGCGCGCACGCCCGCACCCCAATGTCATGCCGGCCAGTATGGGATCCGCTGTC
AACGACGCCTTGAAGCGGGACAAGGACGCGATCTATGGGCACCCGTTGTTTCTCTGTTAGCTCTGGTC
TTTGAGAAGTGGCAGCTGGCGACCTGCACTCCCGGGAACCTGGAGTGGCTGGCGGAGACGTCTGTCTC
TCCGACTCCTTCAACGAGGACATCGCGGTCTTCGCCAAGCAGGTTTCGCGCCGAAAAGCCACTTTTTTCC
TCAAATCCAGAGCTGGACAATTTGATGATAACAAGCAATACAAGTACTAAGGTTTCATCTTTGGAGTTA
GAAAAGGTCCACGAAGTGTGCGATAACTTCTGCCACCGATACATTAGCTGTTTGAAGGGGAAAATGCC
ATCGACCTCGTCATTGATGAAAGAGACGGCAGCTCCAAGTCAGATCATGAAGAACTTTAGGCTCCTCC
ACAAATCTCGCTGACCATAACCCCTTCTTCTGGCGAGACCACGATGATGCAACCTCAACCCACTCAGCA
GGCACCCAGGGCCCTCCAGTGGGGCCATGCTTCCAGAGCGGAGACAACAGCAGTGAAGGAGGAT
GGTTTAGACAACAGTGTAGCTTACCTGGTACAGGTGACGATGATGATCCGGATAAGGACAAAAACGC
CAGAAGAAAAGAGGCATTTTCCCAAAGTAGCAACAAATATCATGAGAGCATGGCTTTCAGCATCTC
ACACATCCGTACCCCTCCGAAGAGCAGAAGAAACAGTTAGCGCAAGACACAGGACTTACAATTCTCAA
GTAAACAACACTGGTTTATTAATGCCAGAAGAAGAATAGTACAGCCCATGATTGACCACTCAATCGAGCA
GGTTTTCTTCTTATGATCCTCAGTGAGCAAGGAGCAGCATATAGTCCAGAGGGTCAGCCCATGGGGAGC
TTTGTGTTGGATGGTCAGCAACACATGGGGATCCGGCTGCAGGTTTGCAGAGCATGCCAGGGGACTAC
GTTTCTCAGGGTGGTCTATGGGAATGAGTATGGCACAGCCAAGTTACTCTCTCCCAACCCCA
CACCTACTCAATTAAGACATGGACCCCAATGCATTATATTTGCCAAGCCATCCCCACCACCCAGCC
ATGATGATGCACGGAGGCCCTTACCCACCTGGAATGACTATGTCAGCACAGAGCCCCACAATGTTA
AATTCTGTAGATCCCAATGTTGGCGACAGGTTATGGACATTCATGCCCATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:** □

**ACCN:** NM\_170675

**Insert Size:** 1434 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_170675.4](#)

**RefSeq Size:** 3277 bp

**RefSeq ORF:** 1434 bp

**Locus ID:** 4212

**UniProt ID:** [O14770](#)

**Cytogenetics:** 15q14

**Domains:** homeobox

**Protein Families:** Transcription Factors

**MW:** 51.8 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 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]  
Transcript Variant: This variant (c) lacks the exon containing the stop codon compared to variant a, that causes a frameshift. The resulting isoform (c) contains a longer and distinct C-terminus compared to isoform a.