

## Product datasheet for **SC113195**

### MEIS2 (NM\_020149) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEIS2 (NM_020149) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEIS2
Synonyms:	HsT18361; Meis1, myeloid ecotropic viral integration site 1 homolog 2; Meis1-related gene 1; Meis homeobox 2; Meis homolog 2; MGC2820; MRG1; MRG1, MGC2820, HsT18361; OTTHUMP00000160209; TALE homeobox protein Meis2
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC113195 sequence for NM_020149 edited (data generated by NextGen Sequencing)

```
ATGGCGCAAAGGTACGATGAGCTGCCCCATTACGGCGGGATGGACGGAGTAGGGGTTCCC
GCTTCCATGTACGGAGACCCTCACGCGCCGCGCGGATCCCCCGGTTCCACCACCTGAAC
CACGGGCCGCGCTCCACGCCACACAGCACTACGGCGCGCACGCCCGCACCCCAATGTC
ATGCCGGCCAGTATGGGATCCGCTGTCAACGACGCCTTGAAGCGGGACAAGGACGCGATC
TATGGGCACCCGTTGTTTCCTCTGTTAGCTCTGGTCTTTGAGAAGTGCGAGCTGGCGACC
TGCACTCCCCGGGAACCTGGAGTGGCTGGCGGAGACGTCTGCTCCTCCGACTCCTTCAAC
GAGGACATCGCGGTCTTCGCAAGCAGGTTGCGCGCGAAAAGCCACTTTTTCTCAAAT
CCAGAGCTGGACAATTTGATGATAACAAGCAATACAAGTACTAAGGTTTCATCTTTGGAG
TTAGAAAAGGTCCACGAAGTGTGCGATAACTTCTGCCACCGATACATTAGCTGTTTGAAG
GGGAAAATGCCCATCGACCTCGTCATTGATGAAAGAGACGGCAGCTCCAAGTCAGATCAT
GAAGAAGTTTTCAGGCTCCTCCACAAATCTCGCTGACCATAACCCTTCTTCTTGGCGAGAC
CACGATGATGCAACCTCAACCCACTCAGCAGGCACCCAGGGCCCTCCAGTGGGGCCAT
GCTTCCCAGAGCGGAGACAACAGCAGTGAGCAAGGGGATGGTTTAGACAACAGTGTAGCT
TCACCTGGTACAGGTGACGATGATGATCCGGATAAGGACAAAAACGCCAGAAGAAAAGA
GGCATTTCCTCCAAAGTAGCAACAAATATCATGAGAGCATGGCTCTTCCAGCATCTCACA
GTTTATTAA
```

Clone variation with respect to NM\_020149.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020149 unedited  
 TTTGGGCGGTTCAAAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAAAG  
 AAGAGAAAAAGAGAAAAAGAGAAATATCACAGAAAAAAATTTCTCGTTGTCTAGACTGGG  
 CTTTTTTTTCCCCCTAAAAATAGCATATTGGAGAATTGGGAGAAGTCTCTTTGGTTTG  
 GAAAAAAGGAATCTTCAGCCTAGATCACTTTCTATCCGGACTGGGATATTA  
 TATACGACACATCCAGGAGTTTATTGGAGCGCAGACTGATGGCGCAAAGGTACGATGAGC  
 TGCCCCATTACGGCGGGATGGACGGAGTAGGGGTTCCCGCTTCCATGTACGGAGACCCCTC  
 ACGCGCCGCGGCCGATCCCCCGGTTCAACCACCTGAACCACGGGCGCCGCTCCACGCCA  
 CACAGCACTACGGCGCGCACGCCCCGCACCCCAATGTCATGCCGGCCAGTATGGGATCCG  
 CTGTCAACGACGCCTTGAAGCGGACAAGGACGCGATCTATGGGNCACCCGTTGTTTCT  
 CTGTTAGCTCTGGTCTTTGAGAAGTGCAGCTGGCGACCTGCACTCCCCGGGAACCTGGA  
 GTGGCTGGGGNAGACGTCTGCTCCTCCGACTCCTTCAACGAGGAATTTGGCGGTCTTCG  
 CCAAGCAGGTTTCGCGCCCGAAAGCCACTTNTTCTCAAATCCAGAGCTGGACAATTTGA  
 TGATACAAGCAATACAGTACCTTAGGTTTCATCTTTTTGGAGTAGNAANAAGTCCACGA  
 ACTGTGCGATAACTTCTGCCCGATCTTTAGCTGNTTTGAAGGGGAAAAATGCCATCGAC  
 CTGTCATTGATGAAAGAGACGGCAGCTCAAGTCAATCATGAAAAAATTCAGGGCTCCC  
 ACAATCTCGCTGAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_020149 unedited  
 GCTTTGACCGGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTAAAAAT  
 GAAAAATTTATTACCGCTTTTTGTGACTTAACACCTTTTTTTTTTAAACATAACGTCACAGT  
 CCTCATACAAGTATTTAATGTAATTTGACAAAGCTTAAAGGTAACAGCATTCTTCT  
 AGTGAGGAACACGTGCTGAGAAAAGAAGAATTCATGGACATACAATACCAATCCACAGC  
 AGATCTGATACTAGCAAAAACATTTCTTTTTTTTTCAATTGAGGTAACACATAGAATAT  
 CTAACATGAAACAATTAATAGACCGAAGCTGTACGAAGTTTGTACAGTATTCTTTCG  
 TCCTTTTTATCCCCAAGCTTTGAGTTTCTGATAAAGTCTAGTTATGGTTCAATGACCA  
 TTAATACTTTTTTTGTGTTGAGGAAAGCTGCCCAACTTAAGATTGTTTTGTCCACAACC  
 AAGGCTCAAAACTCCTGGAAGAAGCTCCTGCTCTGTCTTTAAATCTTCATTGGCAAGCTC  
 TTTGAAGAAGAGTCCCCAAAAATAATAATAAGAATTGGCTTATGAAGCACGAACATAAA  
 AGATCTGTTTGAAGTAAAGGACACATTTATGGAGGAACAAAGCCGGGCATGAAAAAC  
 ATCTTGAAGCTGGAGTTCGAGTATGAGGTTACGCCAAAAGTTCATCATGATCTCCAGT  
 GTGGTCTTTTCTCATTGGCCCAACAGGTTTAAAATATATACCACAGTCTCTCCTGGATG  
 GTGAATCACTGATGAACCAACAGTCATTCTTTGGAAACACCACATAGTGTGGAACAG  
 GTTATATNTTTTTCTCTCTAACTATTGAGGCACATACGGCGGATCACAGAAGTACAG  
 NTAACCTAGTCTATTTATCTACGAGTACTCTGGACTTTTTCAAGATCTACTGGACGA  
 TGCTCATCACCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_020149

**Insert Size:**

3000 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).

**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\\_020149.2](#), [NP\\_064534.1](#)

**RefSeq Size:** 3623 bp

**RefSeq ORF:** 909 bp

**Locus ID:** 4212

**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]  
Transcript Variant: This variant (e) has multiple differences in the coding region, compared to variant a, one of which results in a frameshift. The resulting isoform (e) has a shorter and distinct C-terminus, compared to isoform a.