

Product datasheet for **SC115437**

Mortality Factor 4 like 2 (MORF4L2) (NM_012286) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mortality Factor 4 like 2 (MORF4L2) (NM_012286) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mortality Factor 4 like 2
Synonyms:	MORFL2; MRGX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012286, the custom clone sequence may differ by one or more nucleotides

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ATGAGTTCAGAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAGAAGAGAACTTCAAAAAAC  
CAACTAGAAGCAACATGCAGAGAAGTAAAATGAGAGGGGCCTCCTCAGGAAAGAAGACAGCTGGTCCACA  
GCAGAAAAATCTTGAACCAGCTCTCCAGGAAGATGGGGTGGTCGCTCTGCAGAGAACCCCTTCAGGA  
TCCGTGAGGAAGACCAGAAAGAACAAGCAGAAGACTCCTGGAACGGAGATGGTGGCAGTACCAGCGAAG  
CACCTCAGCCCCCTCGGAAGAAAAGGGCCCGGCAGCCCCACTGTTGAAAGTGAGGAGGCGTTTAAAGAA  
TAGAATGGAGGTTAAAGTGAAGATTCTGAAGAATTTAAACCATGGCTTGTGAGGACTGGGACTTAGTT  
ACCAGGCAGAAGCAGCTGTTTCAACTCCCTGCCAAGAAAATGTAGATGCAATTCTGGAGGAGTATGCAA  
ATTGCAAGAAATCGCAGGAAATGTTGATAATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAA  
AGAATATTTCAATGTGATGTTGGCACTCAGCTGCTCTACAAATTTGAGAGGCCCCAGTATGCTGAAATC  
CTTTGGCTCACCTGATGCTCCAATGTCCCAGGTTTATGGAGCACCACCTACTGAGATTATTTGTAA  
GAATTGGAGCAATGTTGGCCTATACGCCCTTGATGAGAAAAGCCTTGCAATTATTGTTGGCTATTTGCA  
TGATTTCTAAAATATCTGGCAAAGAATTCTGCATCTCTTTACTGCCAGTGATTACAAAGTGGCTTCT  
GCTGAGTACCACCGCAAAGCCCTGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012286 unedited
 CATTGTATACGACTCACTATAGGGCGGCCGCAATTCGCACGAGGCCTCGTGCCGATTT
 GCCTGAAGAAGTCAGTGTGCTTGGAGATCAGGACGCAAAGGTCACCATCAGAAAAG
 CTAAGTTTGTGTATAGTGAGGATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGA
 TTACAGAACTCTGGTGGTTGGAATAAAAACAGGGTTGAATGAGTCCAGAAAAGCAGGGTT
 CTC AACCTCGTGGACAGCAATCTGCAGAGAAGAGAACTTCAAAAACCAACTAGAAAGCA
 ACATGCAGAGAAGTAAAATGAGAGGGGCTCCTCAGAAAAGAGACAGCTGGTCCACAGC
 AGAAAAATCTTGAACCAGCTCTCCAGGAAGATGGGGTGGTCGCTCTGCAGAGAACCCCC
 CTTCAGGATCCGTGAGGAAGACCAGAAAGAACAAGCAGAAAGACTCCTGGAACCGGAGATG
 GTGGCAGTACCAGCGAAGCACCTCAGCCCCCTCGGAAGAAAAGGGCCCGGCAGACCCCA
 CTGTTGAAAGTGAGGAGGCGTTTAAAGATAGAATGGAGGTTAAAGTGAAGATTCTGAAG
 AATTA AACCATGGCTTGTGAGGACTGGGACTTANTTACCAGGCAGAAGCAGCTGTTTC
 AACTCCCTGCCAAGAAAATGTAGATGCCATTCTGGNAGAGTATGCANATTGCAAGAAAT
 CGCAGGGAATGTTGATAATAAGGATATGCNGNTAATGAANTGTGGCANGAATAAAGATA
 TTTTCATGTGATGTTGGCACTCAGCTGCTCTACAATTGAAAGGCCAGATGCTGAAATCTC
 TTGGCTCACCTGAGCTNCATGTTCCAAGTTATGGACCCACACTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012286 unedited
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTCTTTGAAATTTAGA
 AACAAATTTTATTTAAGATCTGAAATACAATTCCTAAAATATCAACTTTTCCAGAAAACC
 GTGGCTACACAATAATGCATTGCCTCTATCATGTTAGAACGTGCATTAGACTCAAATACA
 AAAACCATGAAACAAATCACCATCCTTCAACAATTTGAGCAAAGATAGAATGCCTAAGAA
 CAACATAGATGGACTTGCAGAGGATGGGCTGTTTTACTTCAAGCACCATAAAAAAAAAAA
 AAGAGCACAAATGCATGGTTTTTCAGGTATATACATTAAGTTGAACCTTTGGCACTAGGA
 ATCAGGGCGTTTTGTCACATAGCATTAAACACATATTAGAAAATTGTGACTGTCAAAGGG
 ATAGGAACCACCAGCATTCAAGCAATGTTGTCAACTAGGCAATAAAAATGTTCTACTGAAT
 GTTTCTTCTTTGTTCTAATTACTGCATACACTGGTAGCAACTTTGAAATGAGAAAAGGAG
 CTTACTACTCTTTTATTTTCTGTTTAAAACAGAACGAAAACAACTGAAACATAAGCCC
 TGTATACATTAACGATTTTAAAGAATCAATNTACCAGAANAAGACTANGAACANAA
 AGTGTTTACAGATACAGGACATAAATGTGGAAGCTGTCTGTAGACGCTACAGGCTTTTGG
 NGGGGTACTCACCAGAAGCACCTTGAATCCTTGCAGTAAAGAAGATGCGAAATCTTT
 GCCAGAATTTTTAGGAATTATGCCAATAGCCCAAATATGCCAGGCTTTCTCTATCAAGG
 GGCCGATAGGCCAACATTGGTCCAATTCTACAAATATTATAGGAGGGGGGGGGGCCCT
 AAAACCGGGGACTTGGAGCCCCGGGGGGCCCCAGGGTTTACCTAATGGGGCCCTCA
 AAATTGAAGGAGGTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_012286

Insert Size:

1730 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:	<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:	NM_012286.1 , NP_036418.1
RefSeq Size:	1826 bp
RefSeq ORF:	867 bp
Locus ID:	9643
UniProt ID:	B3KP92
Cytogenetics:	Xq22.2
Protein Families:	Transcription Factors
Gene Summary:	<p>Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage. Also component of the MSIN3A complex which acts to repress transcription by deacetylation of nucleosomal histones. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1.</p>