

## Product datasheet for **SC322120**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322120  
 ACTATGGCGGTTGGAGGAACGGCAGTGATCACACGTCGGCTGCTGGGAAGATCTGGATTC  
 TCGTTTCAGGTACCCATCAGAAAAGCTAAGTTTGTCTGTATAGTGAGGATCAGGAGATCTG  
 ATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGGATTGTTGAGAGGATTACATG  
 TAAAGTACCAGGACAGTGCATGGCACATGTTGTATCTCCCACTTACCCTTCTAGACCAT  
 CCCAGAAGATCTATAAGATTTTCATCTGGGAAATCACTAGGAGTTCTTGGAAAGGAAAGAA  
 GGAAGATTGTTGGTTGGAATAAAAAACAGGTTGAATGAGTTCCAGAAAGCAGGGTTCTCA  
 ACCTCGTGGACAGCAATCTGCAGAAGAAGAGAACTTCAAAAAACCAACTAGAAGCAACAT  
 GCAGAGAAGTAAAATGAGAGGGGCTCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGAA  
 AAATCTTGAACCAGCTCTCCAGGAAGATGGGGTGGTCGCTCTGCAGAGAACCCCTTTC  
 AGGATCCGTGAGGAAGACCAGAAAGAACAAGCAGAAGACTCCTGGAAACGGAGATGGTGG  
 CAGTACCAGCGAAGCACCTCAGCCCCCTCGGAAGAAAAGGGCCCGGCAGACCCCACTGT  
 TGAAGTGAAGGAGCGTTAAGAATAGAATGGAGGTTAAAGTGAAGATTCCTGAAGAATT  
 AAAACCATGGCTTGTGAGGACTGGACTTAGTTACCAGGCAGAAGCAGCTGTTTCAACT  
 CCCTGCCAAGAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATTGCAAGAAATCGCA  
 GGGAAATGTTGATAATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAGAATA  
 TTTCAATGTGATGTTGGGCACTCAGCTGCTCTACAAATTTGAGAGGCCCAAGTATGCTGA  
 AATCCTCTTGGCTCACCTGATGCTCCAATGTCCAGGTTTATGGAGCACCACACCTACT  
 GAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCTTGTGAGAAAAGCCT  
 TGCATTATTTGTTGGGCTATTTGCATGATTTCTAAAATATCTGGCAAAGAATTCTGCATC  
 TCTCTTACTGCCAGTGATTACAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTG  
 AGCGTCTACAGACAGCTCACCATTTTTGCCTGTATCTGTAAACACTTTTTGTTCTTAGT  
 CTTTTTCTGAAAATTGATGTTCTTTAAAATCGTTAATGTATAACAGGGCTTATGTTTC  
 AGTTTGTTCCTGTTTAAACAGAAAATAAAGGAGTGAAGCTCCTTTTCTCAT  
 TTCAAAGTTGCTACCAAGTATGCAGTAATTAGAACAAGAAAGAAACATTAGTAGAACA  
 TTTTATTGCCTAGTTGACAACATTGCTTGAATGCTGGTGGTTCCTATCCCTTTGACACTA  
 CACAATTTTCTAATATGTGTTAATGCTATGTGACAAAACGCCCTGATTCTAGTGCCAAA  
 GGTTCACCTTAATGTATATACCTGAAAACCCATGCATTTGTGCTTTTTTTTTTTTTAT  
 GGTGCTTGAAGTAAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTC  
 TATCTTTGCTCAAATTGTTGAAGGATGGTATTGTTTCATGTTTGTATTGAGTCT  
 AATGCACGTTCTAACATGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGGAAA  
 AGTTGATATTTTAGGAATTGATTTTCAGATCTTAATAAAAATTTGTTTCTAAATTTCAA  
 GCAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_012286

**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\\_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:** 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]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1.