

Product datasheet for RC227058

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Mortality Factor 4 like 2 (MORF4L2) (NM 001142426) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Mortality Factor 4 like 2 (MORF4L2) (NM_001142426) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Mortality Factor 4 like 2

Synonyms: MORFL2; MRGX

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC227058 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGTTCCAGAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAGAAGAAGACACTTCAAAAAACC
CAACTAGAAGCAACATGCAGAGAAAGTAAAATGAGAGGGGCCTCCTCAGGAAAGAAGACAGCTGGTCCACA
GCAGAAAAATCTTGAACCAGCTCTCCCAGGAAGATGGGGTGGTCGCTCTGCAGAGAACCCCCCTTCAGGA
TCCGTGAGGAAGACCAGAAAGAACAAGCAGAAGACTCCTGGAAACGGAGATGGTGGCAGTACCAGCGAAG
CACCTCAGCCCCCTCGGAAGAAAAGGGCCCGGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAA
TAGAATGGAGGTTAAAGTGAAGATTCCTGAAGAATTAAAACCATGGCTTGTTGAGGACTTGGTAGAA
ATGCAAGAAACCAGCGTTTCAACTCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAA
ATTGCAAGAAATCGCAGGGAAATGTTGATAATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAA
AGAATATTTCAATGTGATGTTGGGCACTCAGCTGCTCTACAAATTTGAGAGGCCCCAGTATGCTGAAATC
CTCTTGGCTCACCCTGATGCTCCAATGTCCCAGGTTTATGGAGCACCACCTACTGAGATTATTTGTAA
GAATTGGAGCAATGTTGGCCTATACGCCCCTTGATGAGAAAAAGCCTTGCATTATTGTTGGGCTATTTTGCA
TGATTTCCTAAAATATCTGGCAAAGAATTCTGCATCTCTTTTACTGCCAGTGATTACAAAGTGGCTTCT
GCTGAGTACCACCGCAAAGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA





Protein Sequence: >RC227058 protein sequence

Red=Cloning site Green=Tags(s)

MSSRKQGSQPRGQQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSG SVRKTRKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLV TRQKQLFQLPAKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEI LLAHPDAPMSQVYGAPHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVAS AEYHRKAL

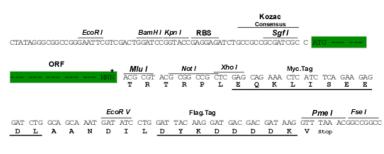
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6002 b02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001142426

ORF Size: 864 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: <u>NM 001142426.1</u>, <u>NP 001135898.1</u>

RefSeq Size: 1845 bp
RefSeq ORF: 867 bp
Locus ID: 9643

UniProt ID: <u>B3KP92</u>
Cytogenetics: Xq22.2

Protein Families: Transcription Factors

MW: 32.3 kDa

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

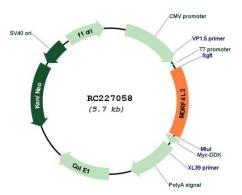
interaction of the modified histones with other proteins which positively regulate

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]



Product images:



Circular map for RC227058