

Product datasheet for RC226678L3

OriGene Technologies, Inc.

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Mortality Factor 4 like 2 (MORF4L2) (NM 001142421) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Mortality Factor 4 like 2 (MORF4L2) (NM_001142421) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Mortality Factor 4 like 2

Synonyms: MORFL2; MRGX

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide

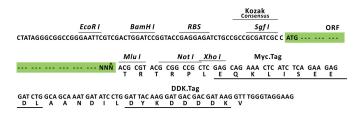
The ORF insert of this clone is exactly the same as(RC226678).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



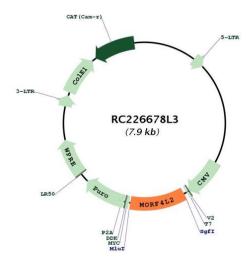


 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001142421

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: NM 001142421.1, NP 001135893.1

RefSeq Size: 1929 bp RefSeq ORF: 867 bp



Mortality Factor 4 like 2 (MORF4L2) (NM_001142421) Human Tagged Lenti ORF Clone – RC226678L3

 Locus ID:
 9643

 UniProt ID:
 B3KP92

 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]