

Product datasheet for MC218255

Morf4l1 (BC103783) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Morf4l1 (BC103783) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Morf4l1
Synonyms:	TEG-189, MRG15, MORFRG15, mKIAA4002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC103783 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGCCCAAGCAGGACCCTAAGCCGAAATTCAGGAGGGCGAGCGAGTGCTGTGCTTTCATGGGCCTC
 TTCTCTATGAAGCAAAGTGTGTAAAGTTGCCATAAAGGACAAACAAGTAAATACTTCATCCATTACAG
 TGGCTGGAATAAAAAATTGGGATGAATGGGTGCCAGAAAGCAGAGTACTCAAAACGTGGACACCAATTTG
 CAGAAACAGCGAGAATTCAAAAGGCCAATCAGGAACAATATGCAGAGGGCAAGATGAGAGGGGCTGCTC
 CGGGGAAGAAGACATCCGGCCTGCAACAGAAAAATGTCGAAGTAAAAACAAAAAGAACAAGCAGAAAAAC
 ACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACACCTCAGCCTCCTAGGAAGAAGAGAGCCCGGTA
 GATCCTACCGTTGAAAATGAAGAAACCTTCATGAACAGAGTTGAAGTTAAAGTGAAGATCCCTGAAGAGC
 TGAAACCTCGGCTTGTGGATGACTGGGACTTGATCACCAGACAGAAGCAGCTTTTTATCTTCTGCCAA
 GAAGAATGTGGATTCCATTTTGGAGGATTATGCAAATTATAAGAAGTCTCGAGGAAATACAGATAATAAA
 GAGTATGCTGTTAATGAGGTGGTGGCAGGCATAAAGGAGTACTTCAATGTGATGTTGGGCACTCAGCTCC
 TCTACAAGTTTGAGAGACCACAGTACGCTGAAATCCTCGCCGACCACCGGATGCGCCCATGTCCAGGT
 GTACGGAGCGCCACATTTGCTGAGATTATTTGTGCGAATTGGAGCGATGTTGGCTACACGCCTCTAGAT
 GAGAAAAGCCTTGCTTTATTACTGAATATCTACATGATTTTCTCAAGTACCTGGCGAAGAATTCTGCAA
 CCTTGTCAGTGCCAGTGATTATGAAGTGGCCCTCCTGAGTACCATCGAAAGCCGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	BC103783


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Insert Size:	972 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC103783 , AAI03784
RefSeq Size:	1301 bp
RefSeq ORF:	971 bp
Locus ID:	21761
Cytogenetics:	9 E3.1

Gene Summary:

Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones 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. Required for homologous recombination repair (HRR) and resistance to mitomycin C (MMC). Involved in the localization of PALB2, BRCA2 and RAD51, but not BRCA1, to DNA-damage foci (By similarity).[UniProtKB/Swiss-Prot Function]