

Product datasheet for MC207421

Morf4l1 (NM_001039147) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Morf4l1 (NM_001039147) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Morf4l1
Synonyms:	mKIAA4002; MORFRG15; MRG15; TEG-189; Tex189
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207421 representing NM_001039147 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCCCAAGCAGGACCCTAAGCCGAAATTCAGGAGGGCGAGCGAGTGCTGTGCTTTCATGGGCCTC
 TTCTCTATGAAGCAAAGTGTGTAAAGTTGCCATAAAGGACAAACAAGTGAATACTTCATCCATTACAG
 TGGCTGGAATAAAAAAGTGCTGTGAGGCCAGGCGCTCTGAAAAATCTTTGAAGACACGTGAGGATATT
 GTAGCCCTTTTCTGTTCTGTAAGGAGCTCCCTCAGTACACCACCCCTCCTGACCTCTAGTTGGGATG
 AATGGGTGCCAGAAAGCAGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAACTTCAAAA
 GGCCAATCAGGAACAATATGCAGAGGGCAAGATGAGAGGGGCTGCTCCGGGAAGAAGACATCCGGCCTG
 CAACAGAAAAATGTCGAAGTGAAAACAAAAAAGAACAGCAGAAAAACCTGGAAATGGAGATGGTGGCA
 GTACCAGTGAGACACCTCAGCCTCCTAGGAAGAAGAGAGCCCGGGTAGATCCTACCGTTGAAAAATGAAGA
 AACCTTCATGAACAGAGTTGAAGTTAAAGTGAAGATCCCTGAAGAGCTGAAACCTGGCTTGTGGATGAC
 TGGGACTTGATCACCAGACAGAAGCAGCTTTTTATCTTCCTGCCAAGAAGAATGTGGATTCCATTTTGG
 AGGATTATGCAAATTATAAGAAGTCTCGAGGAAATACAGATAATAAGAGTATGCTGTTAATGAGGTGGT
 GGCAGGCATAAAGGAGTACTTCAATGTCATGTTGGGCACTCAGCTCCTCTACAAGTTTGAGAGACCACAG
 TACGCTGAAATCCTCGCCGACCACCCGGATGCGCCCATGTCCAGGTGTACGGAGCGCCACATTTGCTGA
 GATTATTTGTGCGAATTGGAGCGATGTTGGCCTACACGCCTCTAGATGAGAAAAGCCTTGCTTTATTACT
 GAACTATCTACATGATTTTCTCAAGTACCTGGCGAAGAATTCTGCAACCTTGTTCACTGCCAGTGATTAT
 GAAGTGGCCCTCCTGAGTACCACCGAAAGCCGT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001039147
Insert Size:	1089 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001039147.2</u> , <u>NP_001034236.1</u>
RefSeq Size:	2013 bp
RefSeq ORF:	1089 bp
Locus ID:	21761
UniProt ID:	<u>P60762</u>
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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.