

Product datasheet for **MC209516**

Morf4l1 (NM_024431) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Morf4l1 (NM_024431) Mouse Untagged Clone
Tag: Tag Free
Symbol: Morf4l1
Synonyms: mKIAA4002; MORFRG15; MRG15; TEG-189; Tex189
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209516 representing NM_024431
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGCCCAAGCAGGACCCTAAGCCGAAATTCAGGAGGGCGAGCGAGTGTGCTTTCATGGGCCTC
TTCTCTATGAAGCAAAGTGTGTAAGGTTGCCATAAAGGACAAACAAGTAAAATACTTCATCCATTACAG
TGGCTGGAATAAAAATTGGGATGAATGGGTGCCAGAAAGCAGAGTACTCAAATACGTGGACCAATTTG
CAGAAACAGCGAGAATTCAAAAAGGCCAATCAGGAACAATATGCAGAGGGCAAGATGAGAGGGGCTGCTC
CGGGGAAGAAGACATCCGGCCTGCAACAGAAAAATGTCGAAGTAAAAACAAAAAGAACAAGCAGAAAAAC
ACCTGGAATGGAGATGGTGGCAGTACCAGTGAGACACCTCAGCCTCCTAGGAAGAAGAGAGCCCGGGTA
GATCCTACCGTTGAAAATGAAGAAACCTTCATGAACAGAGTTGAAGTTAAAGTGAAGATCCCTGAAGAGC
TGAAACCTGGCTTGTGGATGACTGGGACTTGATCACCAGACAGAAGCAGCTTTTTTATCTTCTGCCAA
GAAGATGTGGATTCCATTTTGGAGGATTATGCAAATTATAAGAAGTCTCGAGGAAATACAGATAATAAA
GAGTATGCTGTTAATGAGGTGGTGGCAGGCATAAAGGAGTACTTCAATGTCATGTTGGGCACTCAGCTCC
TCTACAAGTTTGAGAGACCACAGTACGCTGAAATCCTCGCCGACCACCCGGATGCGCCCATGTCCAGGT
GTACGGAGCGCCACATTTGCTGAGATTATTTGTGCGAATTGGAGCGATGTTGGCCTACACGCCTCTAGAT
GAGAAAAGCCTTGCTTTATTACTGAACTATCTACATGATTTTCTCAAGTACCTGGCGAAGAATTCTGCAA
CCTTGTTCAAGTGCAGTATTATGAAGTGGCCCTCCTGAGTACCACCGAAAGCCGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_024431
Insert Size: 972 bp



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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.
RefSeq:	NM_024431.3 , NP_077751.1
RefSeq Size:	1896 bp
RefSeq ORF:	972 bp
Locus ID:	21761
UniProt ID:	P60762
Cytogenetics:	9 E3.1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p> <p>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.</p>