

## Product datasheet for MR205555

### Morf4l1 (NM\_001039147) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Morf4l1 (NM_001039147) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Morf4l1
Synonyms:	mKIAA4002; MORFRG15; MRG15; TEG-189; Tex189
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205555 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCCAAGCAGGACCCTAAGCCGAAATTCAGGAGGGCGAGCGAGTGCTGTGCTTTCATGGGCCTC  
TTCTCTATGAAGCAAAGTGTGTAAGGTTGCCATAAAGGACAAACAAGTAAATACTTCATCCATTACAG  
TGGCTGGAATAAAAAAGTGTGTGAGGCCAGGCGCTCTGAAAAATCTTGAAGACACGTGAGGATATT  
GTAGCCCTTTTCTGTTCTGAAAGGAGCTCCCTCAGTACACCACCCCTCTGACCTCTAGTTGGGATG  
AATGGGTGCCAGAAAGCAGAGTACTCAAATACGTGGACACCAATTTGCAGAAACACGAGAACTTCAAAA  
GGCCAATCAGGAACAATATGCAGAGGGCAAGATGAGAGGGGCTGCTCCGGGAAGAAGACATCCGGCCTG  
CAACAGAAAAATGTCGAAGTAAAAAAGAAACAAGCAGAAAAACACCTGGAAATGGAGATGGTGGCA  
GTACCAGTGAACAGAGTTGAAGTAAAGTGAAGATCCCTGAAGAGCTGAAACCTGGCTTGTGGATGAC  
TGGACTTGATCACCAGACAGAAGCAGCTTTTTATCTTCTGCCAAGAAGAATGTGGATTCCATTTTGG  
AGGATTATGCAAATTATAAGAAGTCTCGAGGAAATACAGATAATAAGAGTATGCTGTTAATGAGGTGGT  
GGCAGGCATAAAGGAGTACTTCAATGTGATGTTGGCACTCAGCTCCTCTACAAGTTTGAGAGACCACAG  
TACGCTGAAATCCTCGCCGACCACCCGGATGCGCCCATGTCCAGGTGTACGGAGCCACATTTGCTGA  
GATTATTTGTGCGAATTGGAGCGATGTTGGCCTACACGCCTCTAGATGAGAAAAGCCTTGCTTTATTACT  
GAACTATCTACATGATTTTCTCAAGTACCTGGCGAAGAATTCTGCAACCTTGTTCAAGTGGCAGTGATTAT  
GAAGTGGCCCTCTGAGTACCACCGAAAGCCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205555 protein sequence  
Red=Cloning site Green=Tags(s)

MAPKQDPKPKFQEGERVLCFHGPLL YEAKCVKVAIKDKQVKYFIHYSWGNKKS AVRPRRSEKSLKTREDI  
 VALFPVPEGAPSVHHPLL TSSWDEWVPE SRVLKYVDNLQKQRELQKANQEYAEKMRGAAPGKKTSGL  
 QQKNVEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRVRDPTVENEETFMNRVEVKVKIPEELKPWLVD  
 WDLITRQKQLFYLPAAKKNVDSILEDYANYKKS RGN TDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQ  
 YAEILADHPDAPMSQVYGAPHLRL FVRIGAMLAYTPLDEKSLALLLNLYLHDFLKYLAKNSATLFSASDY  
 EVAPPEYHRKAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001039147

**ORF Size:** 1089 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\\_001039147.2](#), [NP\\_001034236.1](#)

**RefSeq Size:** 2013 bp

**RefSeq ORF:** 1089 bp

**Locus ID:** 21761

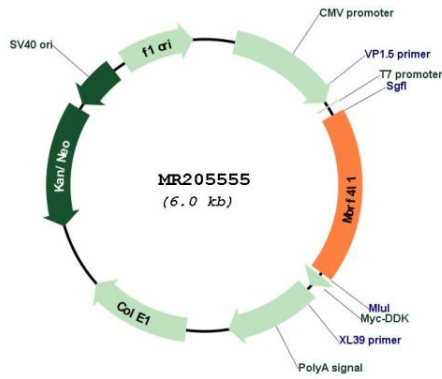
**UniProt ID:** [P60762](#)

**Cytogenetics:** 9 E3.1

**MW:** 41.5 kDa

**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]

Product images:



Circular map for MR205555