

Product datasheet for **SC308281**

MRG15 (MORF4L1) (NM_206839) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRG15 (MORF4L1) (NM_206839) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRG15
Synonyms:	Eaf3; FWP006; HsT17725; MEAF3; MORFRG15; MRG15; S863-6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_206839 edited
 GGATGTAGAGCTGGCAGTGCCTGACGGCGCTGACGCGGAGTTGGGTGGGGTAGAGAG
 TAGGGGGCGGTAGTCGGGGTGGTGGGAGAAGGAGGAGGCGGCAATCACTTATAAATGG
 CGCCGAAGCAGGACCCGAAGCCTAAATTCAGGAGGGTGAGCGAGTGCTGTGCTTTCATG
 GGCCTCTCTTTATGAAGCAAAGTGTGTAAGGTTGCCATAAAGGACAAACAAGTAAAT
 ACTTCATACATTACAGTGGTTGGAATAAAAAAGTGTGTGAGGCCAGGCGCTCGAAA
 AATCTTTGAAGACACATGAGGATATTGTAGCCCTTTTCTGTTTCTGAAGGAGCTCCCT
 CAGTACACCACCCCTCCTGACCTCTAGTTGGGATGAATGGGTTCCGGAGAGCAGAGTAC
 TCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAAGTTCAAAAAGCCAATCAGGAGC
 AGTATGCAGAGGGGAAGATGAGAGGGGCTGCCAGGAAAGAAGACATCTGGTCTGCAAC
 AGAAAAATGTTGAAGTAAAAACGAAAAAGAACAAACAGAAAAACCTGGAAATGGAGATG
 GTGGCAGTACCAGTGAGACCCCTCAGCCTCCTCGGAAGAAAAGGGCCGGGTAGATCCTA
 CTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCTGAAG
 AGCTAAAACCGTGGCTTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTTT
 ATCTTCTGCCAAGAAGAATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAAT
 CTCGTGAAACACAGATAATAAGGAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAAG
 AATACTTCAACGTAATGTTGGGTACCCAGCTACTCTATAAATTTGAGAGACCACAGTATG
 CTGAAATCTTGCAGATCATCCCGATGCACCCATGTCCCAGGTGTATGGAGCGCCACATC
 TCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCTTATACACCTCTGGATGAGAAGA
 GCCTTGCCTTATTAACAATTATCTTACAGATTTCCTAAAGTACCTGGCAAGAATTCTG
 CAACTTTGTTTCAAGTCCAGGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTG
 TGTGAGAGGCACTCTCACTCACTTATGTTTGGATCTCCGTAACACATTTTTGTTCTTAG
 TCTATCTCTTGTACAAAACGATGTGCTTTGAAGATGTTAGTGTATAACAATTGATGTTGT
 TTTCTGTTTGATTTTAAACAGAGAAAAAATAAAAGGGGTAATAGCTCCTTTTTCTTTT
 CTTTCTTTTTTTTTTTCATTTCAAAATTGCTGCCAGTGTTCATGATGGACAACAGAG
 GGATATGCTGTAGAGTGTATTATGCCTAGTTGACAAAGCTGCTTTTGAATGCTGGTGGT
 TCTATTCCTTTGACACTACGCACCTTTTATAATACATGTTAATGCTATATGACAAAATGCT
 CTGATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAACACACTCATCCATTTG
 TGCTTTTGTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCAT
 GTTGTACTTAGGCATTTTATCTTGGCTCAAATGTTGAAGAATGGTGGCTTGTTCATG
 GTTTTTGTATTTGTGCTAATGCAGTTTTAACATGATAGACGCAATGCATTGTGTAGCT
 AGTTTTCTGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGATCTCAATAAATTTTTTC
 TTTAAATTTCAAAAGAAAAA

Restriction Sites: Please inquire
ACCN: NM_206839
Insert Size: 1900 bp

OTI Disclaimer: 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.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_206839.1.

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_206839.1](#), [NP_996670.1](#)

RefSeq Size: 1969 bp

RefSeq ORF: 1089 bp

Locus ID: 10933

UniProt ID: [Q9UBU8](#)

Cytogenetics: 15q25.1

Protein Families: Transcription Factors

Gene Summary:

Component of the NuA4 histone acetyltransferase (HAT) 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. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) includes an alternate exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is longer than isoform 1.