

## Product datasheet for **RG214758**

### MRG15 (MORF4L1) (NM\_206839) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MRG15 (MORF4L1) (NM_206839) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRG15
Synonyms:	Eaf3; FWP006; HsT17725; MEAF3; MORFRG15; MRG15; S863-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214758 representing NM_206839. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGCCGAAGCAGGACCCGAAGCCTAAATTCAGGAGGGTGAGCGAGTGCTGTGCTTTTCATGGCCCT
CTTCTTTATGAAGCAAAGTGTGTAAAGTTGCCATAAAGGACAAACAAGTGAAATACTTCATACATTAC
AGTGGTTGGAATAAAAAAGTGTGTGAGGCCAGGCGCTCTGAAAAATCTTTGAAGACACATGAGGAT
ATTGTAGCCCTTTTCTGTTCTGAAGGAGCTCCCTCAGTACACCACCCCTCCTGACCTCTAGTTGG
GATGAATGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGACCAATTTGCAGAAACAGCGAGAATT
CAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCT
GGTCTGCAACAGAAAAATGTTGAAGTGAAAACGAAAAAGAACAAACAGAAAAACACCTGGAATGGAGAT
GGTGGCAGTACCAGTGAACCCCTCAGCCCTCGGAAGAAAAGGGCCCGGGTAGATCCTACTGTTGAA
AATGAGGAAACATTTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCTGAAGAGCTAAAACCGTGGCTT
GTTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTTTATCTTCTGCCAAGAAGAATGTGGAT
TCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGAAACACAGATAATAAGGAGTATGCGGTT
AATGAAGTTGTGGCAGGGATAAAAAGAATACTTCAACGTAATGTTGGGTACCCAGTACTCTATAAATTT
GAGAGACCACAGTATGCTGAAATTTTCAGATCATCCCGATGCACCCATGTCCCAGGTGATGGAGCG
CCACATCTCCTGAGATTATTTGTACGAATTTGGAGCAATGTTGGCTTATACACCTCGGATGAGAAGAGC
CTTGCTTTTACTCAATTATCTTACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTC
AGTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG214758  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAPKQDPKPKFQEGERVLCFHGPLL YEAKCVKVAIKDKQVKYFIHYSWGNKKS AVRPRRSEKSLKTHED  
 IVALFPVPEGAPSVHHPLL TSSWDEWVPE SRVLKYVDNLQKQRELQKANQEYAE GKMRGAAPGK KTS  
 GLQQKNVEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRARDPTVENEETFMNRVEVKVIPEELKPWL  
 VDDWDLITRQKQLFYLP AKKNVDSILEDYANYKKSRGNTDNKEYAVNEVVAGIKEYFNVMLGTQLLYKF  
 ERPQYAEILADHPDAPMSQVYGAPHLRLFRIGAMLAYTPLDEKSLALLLNHLHDFLKYLAKNSATLF  
 SASDYEVAPEYHRKAV  
 TRTRPLEMESDEGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_206839

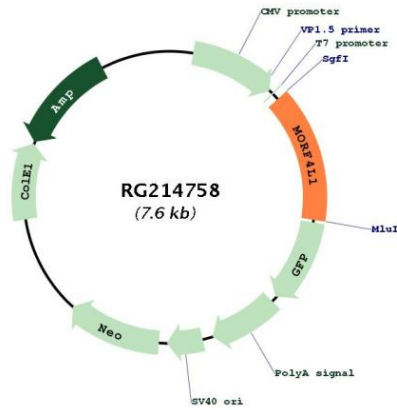
**ORF Size:** 1086 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_206839.3</a>
<b>RefSeq Size:</b>	1969 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	10933
<b>UniProt ID:</b>	<a href="#">Q9UBU8</a>
<b>Cytogenetics:</b>	15q25.1
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	41.5 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG214758