

## Product datasheet for **RG232231**

### MRG15 (MORF4L1) (NM\_001265603) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MRG15 (MORF4L1) (NM\_001265603) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MORF4L1  
**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:** >RG232231 representing NM\_001265603  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTAAAACGAAAA  
 AGAACAAACAGAAAACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAACCCCTCAGCCTCCTCGGAA  
 GAAAAGGGCCCGGTAGATCCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTA  
 AAGATTCCTGAAGAGCTAAAACCGTGGCTTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCT  
 TTTATCTTCTGCCAAGAAGAATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGG  
 AAACACAGATAATAAGGAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAGAATACTTCAACGTAATG  
 TTGGGTACCCAGCTACTCTATAAATTTGAGAGACCACAGTATGCTGAAATTCCTGAGATCATCCCGATG  
 CACCCATGTCCCAGGTGTATGGAGCGCCACATCTCCTGAGATTTTGTACGAATTGGAGCAATGTTGGC  
 TTATACACCTCTGGATGAGAAGAGCCTTGTCTTACTCAATTATCTTCACGATTTCTAAAGTACCTG  
 GCAAAGAATTCTGCAACTTTGTTTCAGTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAG  
 CTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232231 representing NM\_001265603  
Red=Cloning site Green=Tags(s)

MRGAAPGKKTSGLQQKNVEVKTKKNKQKTPGNDDGGSTSETPQPPRKKRVRDPTVENEETFMNRVEVKV  
 KIPPEELKPWLVDWDLITRQKQLFYLPAKKNVDSILEDYANYKKSARGNTDNKEYAVNEVVAGIKEYFNVM  
 LGTQLLYKFERPQYAEILADHPDAPMSQVYVGAPHLLRFLVFRIGAMLAYTPLDEKSLALLLNLYLHDFLKYL  
 AKNSATLFSASDYEVAPPEYHRKAV

TRTRPLE - GFP Tag - V

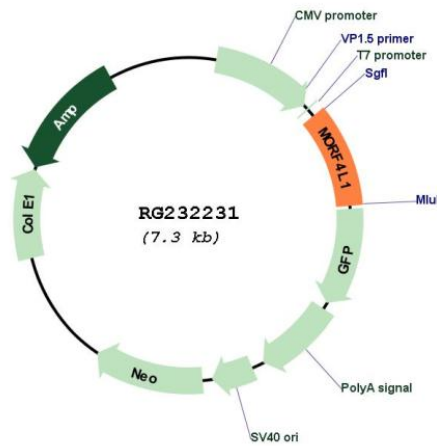
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001265603

**ORF Size:** 705 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_001265603.1</a> , <a href="#">NP_001252532.1</a>
<b>RefSeq Size:</b>	1779 bp
<b>RefSeq ORF:</b>	708 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>Gene Summary:</b>	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]