

## Product datasheet for **RC200251L4V**

### MRG15 (MORF4L1) (NM\_006791) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	MRG15 (MORF4L1) (NM_006791) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MRG15
Synonyms:	Eaf3; FWP006; HsT17725; MEAF3; MORFRG15; MRG15; S863-6
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_006791
ORF Size:	969 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200251).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_006791.2</a>
RefSeq Size:	1894 bp
RefSeq ORF:	972 bp
Locus ID:	10933
UniProt ID:	<a href="#">Q9UBU8</a>
Cytogenetics:	15q25.1
Domains:	CHROMO
Protein Families:	Transcription Factors

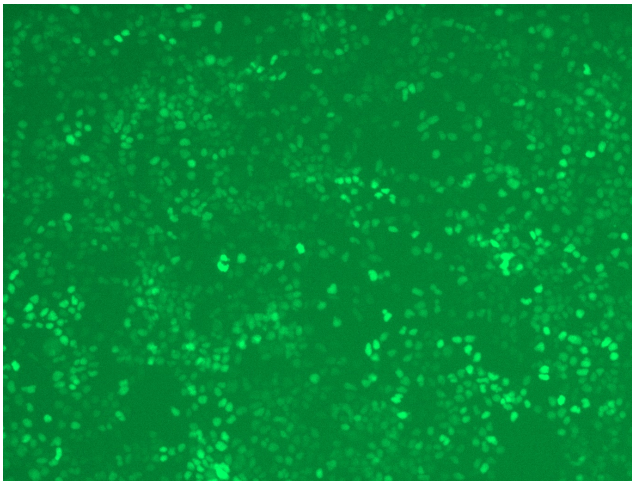


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MW: 37.2 kDa

**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]

**Product images:**



[RC200251L4] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC200251L4V particle to overexpress human MORF4L1-mGFP fusion protein.