

## Product datasheet for **MG216731**

### Raly (NM\_001139512) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Raly (NM_001139512) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Raly
Synonyms:	A1663842; Merc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216731 representing NM_001139512 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTGAAGATTCAGACCAGCAATGTAACCAACAAGAATGACCCTAAGTCCATCAACTCTCGGGTCT  
TCATCGGAAATCTAAACACAGCTGTGGTGAAGAAGTCAGATGTGGAGACCATCTTTCCAAGTACGGCCG  
AGTGGCTGGTTGCTCTGTGCACAAAGGCTATGCTTTTGTCCAGTATGCCAATGAGCGCCATGCCCGGCA  
GCTGTGCTGGGAGAGAATGGGCGGGTGTGGCTGGACAGACCCTGGACATCAACATGGCTGGAGAGCCCA  
AGCCTAATAGACCAAGGGGCTAAAGAGAGCAGCAACTGCCATCTACAGGCTGTTTGATTATCGAGGCCG  
CCTTTCTCCAGTGCCTGTGCCAGGGCAGTCCAGTGAAGCGACCCCGTGTACAGTCCCTTTGGTTGCG  
CGTGTCAAACACTACGATACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACTACTGGCTCAGCAAAA  
TCAAGTTAAAGAGCAGTGAAGTACAGACCATCAAACAGAGCTGACACAGATCAAGTCCAACATCGATGC  
CCTGTTGGGTCGCTTGGAAACAGATTGCTGAGGAACAGAAGGCCAACCAGATGGCAAGAAGAAGGGTGAC  
AGCAGCAGTGGTGGAGGAGGAGGAGCAGTGGTGGAGGCGGCAGTAGCAATGTTGGTGGTGGCAGCGGCG  
GCGGCAGCGGGAGCTGCAGCAGCAGCAGCCGGCTACCAGCGCCCAAGAAGACACGGCTTCTGAGGCAGG  
CACACCCCAAGGAGAAGTCCAAACTCGAGATGATGGTATGAGGAGGACTGCTAACACATAGCGAGGAG  
GAGCTGGAGCACAGCCAGGACACAGATGCAGAAGATGGAGCCTTGACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216731 representing NM\_001139512  
 Red=Cloning site Green=Tags(s)

MSLKIQTSNVTNKNDPKSINSRVFIGNLNTAVVKKSDVETIFSKYGRVAGCSVHKGYAFVQYANERHARA  
 AVLGENGRVLAGQTLDINMAGEPKPNRPKGLKRAATAIYRLFDIRGRLSPVPVPRAVPVKRPRVTVPLVR  
 RVKTTIPVKLFFARSTAVTTGSAKIKLKSSSELQTIKTELQIKSNIDALLGRLEQIAEEQKANPDGKKKGD  
 SSSGGGGSSGGGSSNVGGGSGGGSGSCSSSSRLPAPQEDTASEAGTPQGEVQTRDDGDDEEGLLTHSEE  
 ELEHSQDTDAEDGALQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001139512

**ORF Size:** 888 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\\_001139512.1](#), [NP\\_001132984.1](#)

**RefSeq Size:** 1477 bp

**RefSeq ORF:** 891 bp

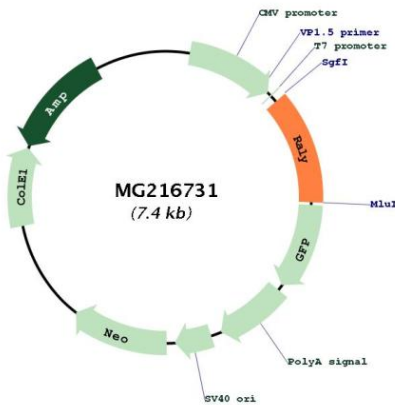
**Locus ID:** 19383

**UniProt ID:** [Q64012](#)

**Cytogenetics:** 2 76.83 cM

**Gene Summary:** RNA-binding protein that acts as a transcriptional cofactor for cholesterol biosynthetic genes in the liver (PubMed:27251289). Binds the lipid-responsive non-coding RNA LeXis and is required for LeXis-mediated effect on cholesterologenesis (PubMed:27251289). May be a heterogeneous nuclear ribonucleoprotein (hnRNP) (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216731