

Product datasheet for **MG218198**

Raly (NM_001139511) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Raly (NM_001139511) 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:	>MG218198 representing NM_001139511 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGAAGATTCAGACCAGCAATGTAACCAACAAGAATGACCCTAAGTCCATCAACTCTCGGGTCT
TCATCGGAAATCTAAACACAGCTGTGGTGAAGAAGTCAGATGTGGAGACCATCTTTCCAAGTACGGCCG
AGTGGCTGGTTGCTCTGTGCACAAAGGCTATGCTTTTGTCCAGTATGCCAATGAGCGCCATGCCCGGCA
GCTGTGCTGGGAGAGAATGGCGGGTGTGGCTGGACAGACCCTGGACATCAACATGGCTGGAGAGCCCA
AGCCTAATAGACCAAGGGGCTAAAGAGAGCAGCAACTGCCATCTACAGGCTGTTTGATTATCGAGGCCG
CCTTTCTCCAGTGCCTGTGCCAGGGCAGTCCAGTGAAGCGACCCCGTGTACAGTCCCTTTGGTTCGC
CGTGTCAAACACTACGATACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACTACTGGCTCAGCAAAA
TCAAGTTAAAGAGCAGTGAAGTACAGACCATCAAACAGAGCTGACACAGATCAAGTCCAACATCGATGC
CCTGTTGGGTCGCTTGGAAACAGATTGCTGAGGAACAGAAGGCCAACCAGATGGCAAGAAGAAGGGTGAC
AGCAGCAGTGGTGGAGGAGGAGGAGCAGTGGTGGAGGCGGCAGTAGCAATGTTGGTGGTGGCAGCGGCG
GCGGCAGCGGGAGCTGCAGCAGCAGCAGCCGGCTACCAGCGCCCAAGAAGACACGGCTTCTGAGGCAGG
CACACCCCAAGGAGAAGTCCAACTCGAGATGATGGTATGAGGAGGACTGCTAACACATAGCGAGGAG
GAGCTGGAGCACAGCCAGGACACAGATGCAGAAGATGGAGCCTTGACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218198 representing NM_001139511
 Red=Cloning site Green=Tags(s)

```
MSLKIQTSNVTNKNDPKSINSRVFIGNLNTAVVKKSDVETIFSKYGRVAGCSVHKGYAFVQYANERHARA
AVLGENGRVLAGQTLDINMAGEPKPNRPKGLKRAATAIYRLFDIRGRLSPVPVPRAVPVKRPRVTVPLVR
RVKTTIPVKLFFARSTAVTTGSAKIKLKSSSELQTIKTELQIKSNIDALLGRLEQIAEEQKANPDGKKKGD
SSSGGGGSSGGGSSNVGGGSGGSGSCSSSSRLPAPQEDTASEAGTPQGEVQTRDDGDDEEGLLTHSEE
ELEHSQDTDAEDGALQ
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001139511

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_001139511.1](#), [NP_001132983.1](#)

RefSeq Size: 1711 bp

RefSeq ORF: 891 bp

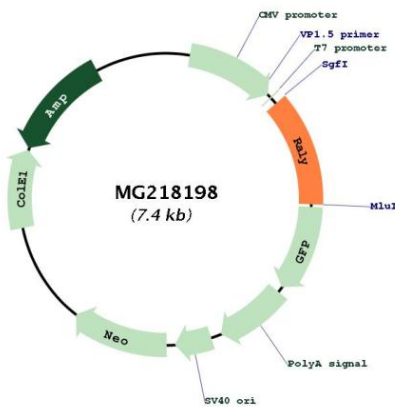
Locus ID: 19383

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 MG218198