

Product datasheet for **RG223333**

RALY (NM_007367) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RALY (NM_007367) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RALY
Synonyms:	HNRPCL2; P542
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223333 representing NM_007367 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCT
TCATTGGAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCG
TGTGGCCGGCTGTTCTGTGCACAAGGGCTATGCCTTTGTTCACTACTCCAATGAGCGCCATGCCCGGCA
GCTGTGCTGGGAGAGAATGGCGGGTGTGGCCGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTA
AGCCTGACAGACCAAGGGGCTAAAGAGAGCAGCATCTGCCATATACAGGCTCTTCGACTACCGGGGCCG
TCTGTGCGCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGTCACAGTCCCTTTGGTCCGG
CGTGTCAAACCTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCAACCACAGCTCAGCCAAGA
TCAAGTTAAAGAGCAGTGAAGCTGACAGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATATCGATGC
CCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGAT
GGAGGTGGCGCCGGCGGGCGGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCG
GTGGCAGCAGCCGGCCACCAGCCCCCAAGAGAACAACAATCTGAGGCAGGCCCTGCCACGGGGGAAGC
ACGGACCCGAGACGAGCGGATGAGGAAGGGCTCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAG
GACACAGACGCGGATGATGGGCCTTGACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223333 representing NM_007367
 Red=Cloning site Green=Tags(s)

MSLKLQASNVTNKNDPKSINSRVFIGNLNTALVKKSDVETIFSKYGRVAGCSVHKGYAFVQYSNERHARA
 AVLGENGRVLAGQTLDINMAGEPKPDRPKGLKRAASAIYRLFDIRGRLSPVPVPRAVPVKRPRVTVPLVR
 RVKTNVPVKL FARSTAVTTSSAKIKLKSSSELQAIKTELQIKSNIDALLSRLEQIAAEQKANPDGKKKGD
 GGGAGGGGGGGGGGGGGGGSSRPPAPQENTTSEAGLPQGEARTRDDGDDEEGLLTHSEEELEHSQ
 DTDADDGALQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_007367

ORF Size: 870 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007367.4](#)

RefSeq Size: 1541 bp

RefSeq ORF: 873 bp

Locus ID: 22913

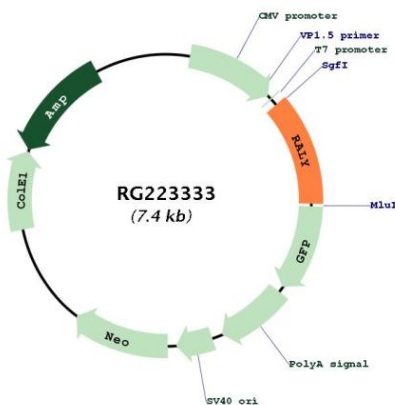
UniProt ID: [Q9UKM9](#)

Cytogenetics: 20q11.22

Domains: RRM

Gene Summary: This gene encodes a member of the heterogeneous nuclear ribonucleoprotein (hnRNP) gene family. This protein may play a role in pre-mRNA splicing and in embryonic development. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG223333