

Product datasheet for **RG214690**

RO60 (NM_001042369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RO60 (NM_001042369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RO60
Synonyms:	RORNPN; SSA2; TROVE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214690 representing NM_001042369
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAATCTGTAACCAAAATGCAGCCACTGAATGAGAAGCAGATAGCCAATTCTCAGGATGGATATG
 TATGGCAAGTCACTGACATGAATCGACTACACCGTTCTTATGTTTCGGTCTGAAGGTGGGACTTATTA
 TATCAAAGAACAGAAGTTGGGCCTTAAAAATGCTGAAGCTTTAATTAGATTGATTGAAGATGGCAGAGGA
 TGTGAAGTGATACAAGAAATAAAGTCATTTAGTCAAGAAGGCAGAACCAAAAGCAAGAGCCTATGCTCT
 TTGCACCTGCCATTTGTTCCAGTGCTCCGACATAAGCACAAAACAAGCAGCATTAAAGCTGTTTCTGA
 AGTTTGTGCGATTCTACCCATCTCTTACTTTTATCCAGTTAAGAAAGATCTGAAGGAAAGCATGAAA
 TGTGGCATGTGGGTGCTGCCCTCCGGAAGGCTATAGCGGACTGGTACAATGAGAAAGGTGGCATGGCCC
 TTGCTCTGGCAGTTACAAAATATAAACAGAGAAATGGCTGGTCTCACAAGATCTATTAAGATTGCACA
 TCTTAAACCTTCCAGTGAAGGACTTGAATTGTGACCAAAATATATTACAAAGGGCTGAAAGAAGTTCAT
 GAATTGTATAAGAAAAAGCACTCTCTGTGGAGACTGAAAAATTATAAAGTATCTGGAGGCTGTAGAGA
 AAGTGAAGCGCACAAGAGATGAGCTAGAAGTCATTCATCTAATAGAAGAACATAGATTAGTTAGAGAACA
 TCTTTTAACAATCACTTAAAGTCTAAAGAGGTATGGAAGGCTTTGTTACAAGAAATGCCGCTTACTGCA
 TTACTAAGGAATCTAGGAAAGATGACTGCTAATTCAGTACTTGAACCAGGAAATTCAGAAGTATCTTTAG
 TATGTGAAAAACTGTGTAATGAAAACTATTAATAAAGGCTCGTATACATCCATTTTCATATTTTGATCGC
 ATTAGAACTTACAAGACAGGTCATGGTCTCAGAGGAAACTGAAGTGGCGCCCTGATGAAGAAATTTTG
 AAAGCATTGGATGCTGCTTTTATAAACATTTAAGACAGTTGAACCAACTGGAAACGTTTCTTACTAG
 CTGTTGATGTCAGTGCTTCTATGAACCAAGAGTTTTGGGTAGTATACTCAACGCTACAGATTGCTGC
 AGCAATGTGCATGGTTGTCACACGAACAGAAAAAGATTCTTATGTAGTTGCTTTTTCCGATGAAATGGTA
 CCATGTCCAGTGACTACAGATATGACCTTACAACAGGTTTTAATGGCTATGAGTCAGATCCAGCAGGTG
 GAACTGATTGCTCTTCCAATGATCTGGGCTCAGAAGACAAACACACCTGCTGATGTCTTCATTGTATT
 CACTGATAATGAGACCTTGTGGAGGTGCCATCCTGCTATTGCTCTGAGGGAGTATCGAAAGAAAATG
 GATATTCCAGCTAAATTGATTGTTTGTGGAATGACATCAATGGTTTACCATTGCAGACCCAGATGATA
 GAGCCTTGCAAAATACCCTACTAATAAATCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214690 representing NM_001042369
 Red=Cloning site Green=Tags(s)

MEESVNMQPLNEKQIANSQDGYVWQVTDNRLHRFLCFGSEGGTYIYIKEQKLGLENAEALIRLIEDGRG
 CEVIQEIKSFSQEGRTTKQEPMLFALAIKCSQSDISTKQAAFKAIVSEVCRIPHLFTFIQFKDLKESMK
 CGMWGRALRKAIDWYNEKGMALALAVTKYQRNGWSHKDLLRLSHLKPSEGLAIVTKYITKGWKEVH
 ELYKEKALSVETEKLLKYLEAVEKVKRTRDELEVIHLIEEHRLVREHLLTNHLKSKEVWKALLQEMPLTA
 LLRNLGKMTANSVLEPGNSEVSLVCEKLCNEKLLKARIHPFHILIALETYKTGHGLRGKLRPDEEIL
 KALDAAFYKTFKTVPTGKRFLAVDVSASMNQVLSILNASTVAAAMCMVVTRTEKDSYVVAFSDEM
 PCPVTTDMTLQQVLMAMSQIPAGGTDCLPMIWAQKTNTPADVFIVFTDNETFAGGVHPAIALREYRKKM
 DIPAKLIVCGMTSNGFTIADPDDRALQNTLLNKSF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001042369

ORF Size: 1575 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_001042369.2](#)

RefSeq Size: 2050 bp

RefSeq ORF: 1578 bp

Locus ID: 6738

UniProt ID: [P10155](#)

Cytogenetics: 1q31.2

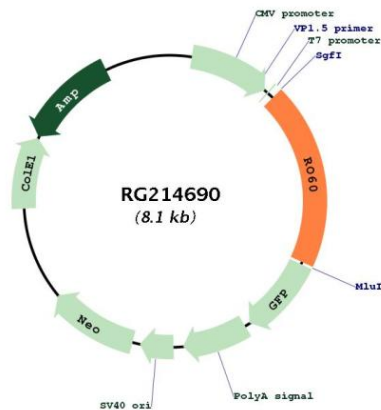
Protein Families: Transcription Factors

Protein Pathways: Systemic lupus erythematosus

MW: 59.3 kDa

Gene Summary: RNA-binding protein that binds to misfolded non-coding RNAs, pre-5S rRNA, and several small cytoplasmic RNA molecules known as Y RNAs. May stabilize some of these RNAs and protect them from degradation (PubMed:18056422). Binds to endogenous Alu retroelements which are induced by type I interferon and stimulate proinflammatory cytokine secretion. Regulates the expression of Alu retroelements as well as inflammatory genes (PubMed:26382853).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214690