

Product datasheet for **RG230246**

RO60 (NM_001173524) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RO60 (NM_001173524) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RO60
Synonyms:	RORNP; SSA2; TROVE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230246 representing NM_001173524
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAATCTGTAACCAAAATGCAGCCACTGAATGAGAAGCAGATAGCCAATTCTCAGGATGGATATG
 TATGGCAAGTCACTGACATGAATCGACTACACCGTTCTTATGTTTCGGTCTGAAGGTGGGACTTATTA
 TATCAAAGAACAGAAGTTGGGCCTTAAAAATGCTGAAGCTTTAATTAGATTGATTGAAGATGGCAGAGGA
 TGTGAAGTGATACAAGAAATAAAGTCATTTAGTCAAGAAGGCAGAACCAAAAGCAAGAGCCTATGCTCT
 TTGCACCTGCCATTTGTTCCAGTGCTCCGACATAAGCACAAAACAAGCAGCATTAAAGCTGTTTCTGA
 AGTTTGTGCGATTCTACCCATCTCTTTACTTTTATCCAGTTTAAAGAAAGATCTGAAGGAAAGCATGAAA
 TGTGGCATGTGGGTCTGCCCTCCGGAAGGCTATAGCGGACTGGTACAATGAGAAAGGTGGCATGGCCC
 TTGCTCTGGCAGTTACAAAATATAAACAGAGAAATGGCTGGTCTCACAAGATCTATTAAGATTGCACA
 TCTTAAACCTTCCAGTGAAGGACTTGAATTGTGACCAAAATATATTACAAAGGGCTGAAAGAAGTTCAT
 GAATTGTATAAGAAAAAGCACTCTCTGTGGAGACTGAAAAATTATTAAGTATCTGGAGGCTGTAGAGA
 AAGTGAAGCGCACAAGAGATGAGCTAGAAGTCATTCATCTAATAGAAGAACATAGATTAGTTAGAGAACA
 TCTTTTAACAATCACTTAAAGTCTAAAGAGGTATGGAAGGCTTTGTTACAAGAAATGCCGCTTACTGCA
 TTACTAAGGAATCTAGGAAAGATGACTGCTAATTCAGTACTTGAACCAGGAAATTCAGAAGTATCTTTAG
 TATGTGAAAACTGTGTAATGAAAACTATTAAGAAAGGCTCGTATACATCCATTTTCATATTTTGATCGC
 ATTAGAACTTACAAGACAGGTCATGGTCTCAGAGGAAACTGAAGTGGCGCCCTGATGAAGAAATTTTG
 AAAGCATTTGGATGCTGCTTTTATAAAACATTTAAGACAGTTGAACCAACTGGAAAACGTTTCTTACTAG
 CTGTTGATGTCAGTGCTTCTATGAACCAAGAGTTTTGGGTAGTATACTCAACGCTAGTACAGTGTGCTGC
 AGCAATGTGCATGGTTGTCACACGAACAGAAAAAGATTCTTATGTAGTTGCTTTTTCCGATGAAATGGTA
 CCATGTCCAGTGACTACAGATATGACCTTACAACAGGTTTTAATGGCTATGAGTCAGATCCAGCAGGTG
 GAACTGATTGCTCTTCCAATGATCTGGGCTCAGAAGACAAACACACCTGCTGATGTCTTCATTGTATT
 CACTGATAATGAGACCTTTGCTGGAGGTGCCATCCTGCTATTGCTCTGAGGGAGTATCGAAAGAAATG
 GATATTCCAGCTAAATTGATTGTTTGTGGAATGACATCAAATGGTTTACCATTGCAGACCCAGATGATA
 GAGGCATGTTGGATATGTGCGGCTTTGATACTGGAGCTCTGGATGTAATTCGAAATTTACATTAGATAT
 GATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230246 representing NM_001173524
 Red=Cloning site Green=Tags(s)

MEESVNQMQLNEKQIANSQDGYVWQVTDNRLHRFLCFGSEGGTYIYKEQKLGLENAEALIRLIEDGRG
 CEVIQEIKSFSQEGRTTKQEPMLFALAIQSQSDISTKQAAFKAIVSEVCRIPHLFTFIQFKKDLKESMK
 CGMWGRALRKAIAADWYNEKGGMALALAVTKYQRNGWWSHKDLLRLSHLKPSSGLAIVTKYITKGWKEVH
 ELYKEKALSVETEKLLKYLEAVEKVKRTRDELEVIHLIEEHRLVREHLLTNHLKSKEVWKALLQEMPLTA
 LLRNLGKMTANSVLEPGNSEVSLVCEKLCNEKLLKARIHPFHILIALETYKTGHGLRGKLRPDEEIL
 KALDAAFYKTFKVEPTGKRFLAVDVSASMNQVLSILNASTVAAAMCMVVTRTEKDSYVVAFSDEMVA
 PCPVTTDMLTQQVLMAMSQIPAGGTDGSLPMIWAQKTNTPADVFI VFTDNETFAGGVHPAIALREYRKKM
 DIPAKLIVCGMTSNGFTIADPDDRGMLDMCGFDTGALDVIRNFTLDMI

TRTRPLE - GFP Tag - V

Restriction Sites:

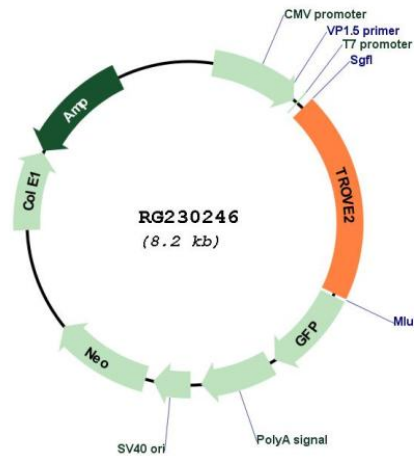
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001173524
ORF Size:	1614 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:	<ol style="list-style-type: none">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_001173524.2
RefSeq Size:	3257 bp
RefSeq ORF:	1617 bp
Locus ID:	6738
UniProt ID:	P10155
Cytogenetics:	1q31.2
Protein Families:	Transcription Factors
Protein Pathways:	Systemic lupus erythematosus
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 porinflammatroy cytokine secretion. Regulates the expression of Alu retroelements as well as inflammatory genes (PubMed:26382853).[UniProtKB/Swiss-Prot Function]