

## Product datasheet for **SC117259**

### RO60 (NM\_004600) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RO60 (NM_004600) Human Untagged Clone
Tag:	Tag Free
Symbol:	RO60
Synonyms:	RORNPN; SSA2; TROVE2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004600, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGAATCTGTAACCAAAATGCAGCCACTGAATGAGAAGCAGATAGCCAATTCTCAGGATGGATATG
TATGGCAAGTCACTGACATGAATCGACTACACCGTTCTTATGTTTCGGTCTGAAGGTGGGACTTATTA
TATCAAAGAACAGAAGTTGGGCCTTGAAAATGCTGAAGCTTTAATTAGATTGATTGAAGATGGCAGAGGA
TGTGAAGTGATACAAGAAATAAAGTCATTTAGTCAAGAAGGCAGAACACAAAGCAAGAGCCTATGCTCT
TTGCACCTTGCCATTTGTTCCAGTGCTCCGACATAAAGCACAAAACAAGCAGCATTAAAGCTGTTTCTGA
AGTTTGTGCGATTCTACCCATCTCTTTACTTTTATCCAGTTTAAAGAAAGATCTGAAGGAAAGCATGAAA
TGTGGCATGTGGGTCGTGCCCTCCGGAAGGCTATAGCGGACTGGTACAATGAGAAAGGTGGCATGGCCC
TTGCTCTGGCAGTTACAAAATATAAACAGAGAAAATGGCTGGTCTCACAAAGATCTATTAAGATTGCACA
TCTTAAACCTTCCAGTGAAGGACTTGAATTGTGACCAAAATATATTACAAAGGGCTGAAAGAAGTTCAT
GAATTGTATAAAGAAAAAGCACTCTCTGTGGAGACTGAAAAATTATTAAGTATCTGGAGGCTGTAGAGA
AAGTGAAGCGCACAAAGAGATGAGCTAGAAGTCATTCATCTAATAGAAGAACATAGATTAGTTAGAGAACA
TCTTTTAAACAAATCACTTAAAGTCTAAAGAGGTATGGAAGGCTTTGTTACAAGAAATGCCCTTACTGCA
TTACTAAGGAATCTAGGAAAGATGACTGCTAATTCAGTACTTGAACCAGGAAATTCAGAAGTATCTTTAG
TATGTGAAAAACTGTGTAATGAAAACTATTA AAAAAGGCTCGTATACATCCATTTTATTTTATGATCGC
ATTAGAAACTTACAAGACAGGTCATGGTCTCAGAGGAAACTGAAGTGGCGCCCTGATGAAGAAATTTTG
AAAGCATTGGATGCTGCTTTTTATAAAACATTTAAGACAGTTGAACCAACTGGAAACGTTTCTTACTAG
CTGTTGATGTCAGTGCTTCTATGAACCAAAGAGTTTTGGGTAGTACTCAACGCTAGTACAGTTGCTGC
AGCAATGTGCATGGTTGTACACGAACAGAAAAAGATTTTATGTAGTTGCTTTTTCCGATGAAATGGTA
CCATGTCCAGTGACTACAGATATGACCTTACAACAGTTTTAATGGCTATGAGTCAGATCCAGCAGGTG
GAAGTATTGCTCTCTTCCAATGATCTGGGCTCAGAAGACAAACACACCTGCTGATGCTTTCATTGTATT
CACTGATAATGAGACCTTTGCTGGAGGTGCCATCCTGCTATTGCTCTGAGGGAGTATCGAAAGAAATG
GATATTCCAGCTAAATTGATTGTTTGTGGAATGACATCAAATGGTTTACCATTGCAGACCCAGATGATA
GAGGCATGTTGGATATGTGCGGCTTTGATACTGGAGCTCTGGATGTAATTCGAAATTTACATTAGATAT
GATTTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004600 unedited

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NGTCAAAATTTGTATACGACTCCTATAGGGCGGCCGCAATTCGCACGAGGGAATCCCCG
GCGGCAGTGGGGCTGTTGCTGTTGCTGTGGCTGTGCTGCCCCGTGAGGCTGCCTTCTTTT
GTCGTTTCCCAGCGCTGCGCAGGACTTCTCCTGGCGGCGCTGCGGATCCAGGGGGTCCGC
TGCCAGGTACAGGTTTCTTAAAGACAAAAAATGGAGGAATCTGTAACCAAAATGCAG
CCACTGAATGAGAAGCAGATAGCCAATTCTCAGGATGGATATGTATGGCAAGTCACTGAC
ATGAATCGACTACACCGTTCTTATGTTTCGGTCTGAAGGTGGGACTTATTATATCAAA
GAACAGAAGTTGGCCTTGAAAATGCTGAAGCTTTAATTAGATTGATTGAAGATGGCAGA
GGATGTGAAGTGATACAAGAAATAAAGTCATTTAGTCAAGAAGGCAGAACACAAAGCAA
GAGCCTATGCTCTTGCACCTTGCCATTTGTTCCAGTGCTCCGACATAAGCACAAAACAA
GCAGCATTTAAAGCTGTTTCTGAAGTTTGTGCGATTCTACCCATCTCTTACTTTTATC
CAGTTTAAAGAAAGATCTGAAGGAAAGCATGAAATGTGGCATGTGGNGGTCGTGCCCTCCG
GAAGGCTATAGCGGACTGGTACAATGAGAAAGGTGGCATGGCCCTTGCTCTGGCAGTTAC
AAAATATAAACAGAGAAATGGCTGGTCTCACAAAGATCTATTAAGATTGCACATCTTAN
ACCTTCCAGTGAAGGGACTTGCATTGTGACCAAAATATATTACANAGGGCTGGNAAGAAAA
GTCATGAATTGTATAAAGAANAAGCACTCTCTGTGGNAGACTGANAATNATTAAGTATC
TGGNAGCTGTANAGAAAGTGAGCCACAAN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004600 unedited NTTCTACTCTGGACCCGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTCAGT AAGGTAACCTTTCCATTATGCACATACTATACCATCATCATTTCATTGGGTGGAGATTAGCT GGGAAAGTAGCTGTATATTTTTAGTGAGATCACTGATGGCAATGGATCTCTGGATCGTGCT GCTGCTTATGGTTAAATCATATCTAATGTGAAATTTTGAATTACATCCAGAGCTCCAGTA TCAAAGCCGCACATATCCAACATGCCTCTATCATCTGGGTCTGCAATGGTAAAACCATTT GATGTCATTTCCACAAACAATCAATTTAGCTGGAATATCCATTTTCTTTTCGATACTCCCTC AGAGCAATAGCAGGATGGACACCTCCAGCAAAGGTCTCATTATCAGTGAATACAATGAAG ACATCAGCAGGTGTGTTTGTCTTCTGAGCCCAGATCATTGGAAGAGAGCAATCAGTTCCA CCTGCTGGGATCTGACTCATAGCCATTAACCTGTTGTAAGGTCATATCTGTAGTCACT GGACATGGTACCATTTTCATCGGAAAAAGCAACTACATAAGAATCTTTTTCTGTTCTGTG ACAACCATGCACATTGCTGCAGCAACTGTACTAGCGTTGAGTATACTACCCAAAACCTTT TGGTTCATAGAAGCCCTGACATCAACAGCTAGTAAGAAACGTTTTCCAGTTGGTTCAACT GTCTTAAATGTTTTATAAAAAGCAGCATCCATTGCTTTCAAATTTCTTCATCAGGGGCG CCACTTCAGTTTCCCCTCTGAGAACCTTGACCTGTCCTTGAAGTTTCTAATGCGCACC AAAATATGAAATGGATGTTAACCACCCCTTTTTTAAAAGTTTTTCATTACCCAGTTTTTAC CATACTAAAGAACTTCCGAATTTCTTGGCTCAGGTACG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004600
<b>Insert Size:</b>	1910 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004600.3</a> , <a href="#">NP_004591.2</a>
<b>RefSeq Size:</b>	3098 bp

RefSeq ORF:	1617 bp
Locus ID:	6738
UniProt ID:	<a href="#">P10155</a>
Cytogenetics:	1q31.2
Protein Families:	Transcription Factors
Protein Pathways:	Systemic lupus erythematosus
Gene Summary:	<p>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 porinflammotry cytokine secretion. Regulates the expression of Alu retroelements as well as inflammatory genes (PubMed:26382853).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) has a distinct C-terminus and is longer than isoform 1.</p>