

## Product datasheet for **SC116049**

### RPC62 (POLR3C) (NM\_006468) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPC62 (POLR3C) (NM_006468) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPC62
Synonyms:	C82; RPC3; RPC62
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006468, the custom clone sequence may differ by one or more nucleotides

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ATGACTCAAGCAGAAATTAAGCTCTGTTCTTTGTTGCTGCAAGAGCATTGAGAGATTGTAGAAAAA
TTGGAGTCCATCTGATAAGAACCGGCAGCCAGCCACTAAGAGTAATTGCCCATGACACAGGAACATCACT
GGATCAGGTGAAGAAAGCCCTGTGTCTCGTCCAACATAACCTGGTGAGTTATCAAGTGCACAAACGT
GGTGTGGTGGAGTATGAAGCCCAGTGCAGCCGGGTATTGCGAATGCTTAGATATCCCCGGTACATCTATA
CTACAAAACCTCTGTACAGTGACACTGGAGAGCTGATTGTTGAGGAGCTTCTGTTGAACGCCAAACTGAC
AATGTCAGCTGTTGTGAAGAAAGTGGCAGACCGGCTCACAGAGACCATGGAGGATGGCAAGACCATGGAC
TATGCTGAAGTATCAAACACATTTGTGCGACTGGCAGACACACACTTTGTACAACGCTGCCCTTCGGTAC
CTACCACTGAGAATTGAGCCCTGGGCCACCACCCTGCCCCACACTTGTCTTAATGAAAAGGACAT
GTACCTGGTTCCTAAACTCAGCTTGATAGGAAAGGTAAGGAGGAGATCATCTGATGAAGATGCTGCT
GGGAGCCCAAGCCAAGAGACCAAAATATACTACAGATAACAAGGAGCCATTCCAGATGATGGGATTT
ATTGGCAGGCCAACCTTGACAGATTCACCAACACTTCCGTGACCAAGCCATTGTGAGCGCAGTTGCTAA
CAGGATGGACCAGACAAGCAGCGAGATTGTGCGAACCATGCTCCGAATGAGTGAGATTACCACTTCTCT
AGTGCTCCCTTACCCAGCCATTGTCTTCCAATGAGATCTTCAGATCCCTACCTGTTGGCTATAACATCT
CTAAGCAAGTCTTGATCAGTATCTCACTCTGCTGGCAGATGATCCACTAGAGTTTGTGGAAAGTCTGG
CGACAGTGGTGGAGGAATGTATGTCATCAACCTCCATAAGGCATTAGCATCCCTAGCCACAGCCACTCTG
GAGTCCGTCGTACAGGAGAGATTTGGGTCTCGTGTGCTAGAATATCCGTCTAGTTTTGCAGAAGAAAC
ACATAGAGCAGAAGCAAGTGAAGACTTTGCAATGATTCTGCAAAGGAGGCAAAGGATATGCTATATAA
GATGCTCTCAGAAAATTCATGTCACCTCAGGAAATCCCAAAACACCAGACCATGCCCATCCAGGACC
TTCTATTTATATACTGTGAACATCTGTGAGTCCGCGAATGTTGTTGCACAGGTGATCAAGAGCATAG
CCAACCTGATAGAAAGGAGCAATTTGAAACCAAAGAGAATAAGCGTCTACTAGAAAAATCTCAGAGGGT
AGAAGCCATCATTGCATCTATGCAGGCTACTGGTGCAGAGGAAGCACAGTTACAAGAAATAGAGGAGATG
ATCACAGCTCCTGAACGTGAGCAGCTAGAGACCCTGAAACGTAATGTCAACAAGTTGGATGCCAGTGAGA
TCCAGGTGGACGAAACCATCTTCTGCTGGAGTCTTACATTGAGTGCACCATGAAGAGACAGTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006468 unedited

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GTAATACGACTACTATAGGGCGCCGGAATTCGGCACGAGGCTTCTTCGGTGGCGATC
CGCGTCTAGAAAGGGCGGTGGGCTCCACCTCGGCCTANAAGGCCAGCGGGAGCCGTAGGA
AGCCGTCGCGGGAAGCTCAGCCGAATTGGAGTTGGAGCCCCGGATTGCGCTGACCTGA
GCTCTCAGACTCCCCAGTACAATGACTCAAGCAGAAATTAAGCTCTGTTCTTTGTTGCTG
CAAGAGCATTTTGGAGAGATTGTAGAAAAAATGGAGTCCATCTGATAAGAACCGGCAGC
CAGCCACTAAGAGTAATTGCCCATGACACAGGAACATCACTGGATCAGGTGAAGAAAGCC
CTGTGTCTCCTCGTCCAACATAACCTGGTGAGTTATCAAGTGCACAAACGTGGTGTGGT
GAGTATGAAGCCCAGTGCAGCCGGTATTGCGAATGCTTAGATATCCCCGGTACATCTAT
ACTACAAAACCTCTGTACAGTGACACTGGAGAGCTGATTGTTGAGGAGCTTCTGTTGAAC
GGCAAACCTGACAAATGTCAGCTGTTGTGAAGAAAGTGGCAGACCGGCTCACAGAGACCATG
GAGGATGGCAAGACCATGGACTATGCTGAAGTATCAAACACATTTGTGCGACTGGCAGAC
ACACACTTTGTACAACGCTGCCCTTCGGTACCTACCACTGAGAATTCAGACCCTGGGCCA
CCACCACCTGCCCCACACTTGTCTTAATGAAAGGACATGTACCTGGTTCCCTAACTC
AGCTTGATAGGGGAAAGGTANAGGAGGAGATCATCTGATGAAGATGCTGCTGGGGAGCCC
AAGGCCAGAGACANAATATCTACAGATACCAGGAGCCCATTCAGAGATGGGATTATTGGC
AGGCAACCTGACAGATTCACCACCT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006468 unedited GCACGCAATCTATAGTCGAGTTTAAATGC ATCCAGGCACCTCCTTTATTTTGCTTTCCATCCCCCAAATCTTCTGAGGAAAATGCTTC TTCTGGATCACTGTCTTTCATGGGGCACTCAATGTA AAACTCCAGCAGGAAAATGGTTT CGTCCACCTGGATCTCACTGGCATCCAATTGTTGACATTACGTTTCAAGGTCTCTAACT GCTGACGTTCAAGAGCTGGGATCATCTCCTCTATTCTTGA AACTGGGCTTCTCTGCAC CAGTAGCCTGCATAAATGCAATGATGGCTTCTACCCTCTGAAATTTTTCTAGTAAACGCT TATTCTCTTTGGTTTCAAATTGCCTCCTTCTATCAAGTTGGCTATGCTCTTGTAGCACC TGTGCAACAACATTTCGGGCAGCTGACAGGATGTTACAGTATATAAATAAAGGCTCTGG ATGGGGCATGGTCTGGTGT TTTGGGAATTTCTGGAGTGACATGAAATTTCTGAGAGCA TCTTATATAGCATATCCTTTGCCTCCTTTGCAGGAATCATTGCAAAGTCTTCCACTTGCT TCTGCTCTATGAGTTTCTCTGCAAACTAGACGGAATATTCTAGCACAGCGAGACCCAA ATCTCTCTGTACGACGGACTCCANAGTGGCTGTGGCTAGGGATGCTAATGCCTTATGAG AGNTGATGACATACATTCTCCACCACTGTCGCCAGACTTCCAACAACTCTAGTGGAT CATCTGCCAGCAGAGTGAGATACTGATCAAGA ACTTGCTTAAAGATGTTATAGCCAAACAG GTAGGGATCTGAAGATCTCATTGGAAGACATGGCTGGGTGAGAGGACACTANAGAAAATG GATCTACTCATTGACAGGGTCGACATCTCCTGCTGNCTGGCCATCTGTTACACTGGCTA CAATGCTGTCACGAATTGTGTGGATT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006468
<b>Insert Size:</b>	2100 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u>NM_006468.5, NP_006459.3</u>
<b>RefSeq Size:</b>	1889 bp
<b>RefSeq ORF:</b>	1605 bp
<b>Locus ID:</b>	10623
<b>UniProt ID:</b>	<u>Q9BUI4</u>
<b>Cytogenetics:</b>	1q21.1
<b>Protein Families:</b>	Transcription Factors

<b>Protein Pathways:</b>	Cytosolic DNA-sensing pathway, Metabolic pathways, Purine metabolism, Pyrimidine metabolism, RNA polymerase
<b>Gene Summary:</b>	<p>DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the subcomplex RNA Pol III binding to the TFIIB-DNA complex via the interactions between TFIIB and POLR3F. May be involved either in the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating catalytic functions of other subunits during initiation. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway. Preferentially binds single-stranded DNA (ssDNA) in a sequence-independent manner (PubMed:21358628).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter isoform (1).</p>