

## Product datasheet for **SC126303**

### PRIM1 (NM\_000946) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRIM1 (NM_000946) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRIM1
Synonyms:	p49
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000946 edited  
 CCTGTGGTAATCCTTACCGTGGCGAGTTCGCGCTCAATGGAGACGTTTGACCCACCGA  
 GCTGCCGAGCTGCTTAACTTTATTACGGAGGCTCTTCCCTACTCTCAGTACTATCG  
 CTGGCTCAACTACGGTGGAGTGATAAAGAATTACTTTCAACACCGTGAATTTTCATTAC  
 ATTGAAAGATGATATTTACATTCGCTACCAATCCTTCAACAACCCAGAGTGATCTGGAAAA  
 GGAGATGCAGAAAATGAATCCATACAAGATTGATATAGGCGCAGTATATTCTCACAGACC  
 CAATCAACACAATACAGTGAAGCTGGGAGCTTTCCAGGCTCAGGAAAAAGAACTGGTATT  
 TGACATTGACATGACAGACTATGACGATGTGAGGAGATGTTGTAGTTCTGCAGACATATG  
 TCCTAAGTGTGGACCCATGACAATGGCCATACGCATCATTGACAGAGCATTGAAGGA  
 GGACTTTGGATTTAAGCATCGTCTCTGGGTATATTCTGGAAGGAGAGGTGTTTATTGTTG  
 GGTCTGTGATGAATCAGTTAGAAAAGTGTCTTCTGCAGTACGTTCTGGGATAGTTGAGTA  
 TTTGAGCCTTGTAAGGGTGGTCAAGACGTTAAAAAGAAAGTTACCTAAGTGAAAAAAT  
 TCACCCTTTTATCAGAAAATCTATAAACATAATAAAAAATACTTTGAAGAAATATGCCTT  
 GGTTAATCAAGATATTCTCGAAAATAAAGAAAGCTGGGATAAGATTTTAGCCCTGTTCC  
 TGAAAACAATTCATGATGAACTTCAACAAAGCTTCCAAAAGTCTCACAAATTCATTCAGCG  
 TTGGGAGCACTTGAAGAAAGTAGCCAGCAGATATCAGAATAACATCAAAAATGACAAATA  
 TGGACCTGGCTGGAGTGGGAGATTATGCTCCAGTACTGTTTTCCACGGCTGGATATCAA  
 TGTCAGCAAAGGAATCAATCATCTACTGAAGAGCCCTTTAGTGTTCATCCTAAAAACAG  
 TCGCATATCTGTGCCTATTGATTTGCAGAAAGTGGACCAGTTTGATCCATTTACTGTTCC  
 GACCATAAGCTTCATCTGCGTGAATTGGATGCCATTTCCACTAATGAAGAGGAAAAAGA  
 GGAGAATGAAGCTGAATCTGATGTCAAACATAGAACCAGAGATTATAAGAGACCAGTCT  
 AGCACCTTATGTGAAAGTTTTTGAACATTTTCTGAAAATCTGGATAAATCCCGAAAAGG  
 AGAACTTCTTAAGAAGAGTGATTTACAAAAAGATTTCTGAAGACAGAGCTCCTCAAACCA  
 TTGTGGATATCTTCTGCCTTCAACCACAGATCAAATACTTCAAGAGCCATTTAATAAATA  
 TGGCAGAATATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000946 unedited TCAGGATTTGTATACGACTGCACTATAGGCGGCGCGCAATTCGCCATTACGGCCGGGGC CTGTGGTAATCCTTACCGTGGCGAGTTCGCGCTCAATGGAGACGTTTGACCCACCGAG CTGCCCCGAGCTGCTTAACTTTATTACCGGAGGCTCTTCCCTACTCTCAGTACTATCGC TGGCTCAACTACGGTGGAGTGATAAAGAATTACTTTCAACACCGTGAATTTTCATTACACA TGGGGAAGATGATATTTACATTCGCTACCAATCCTTCAACAACAGAGTGATCTGGAAAA GGAGATGCAGAAAATGAATCCATACAAGATTGATATAGGCGCAGTATATTCTCACAGACC CAATCAACACAATACAGTGAAGCTGGGAGCTTCCAGGCTCAGGAAAAAGAACTGGTATT TGACATTGACATGACAGACTATGACGATGTGAGGAGATGTTGTANTTCTGCAAACATATG TCCTAAGTGCTGGGACCCTCATGACAATGGCCATACGCATCATTGACAGAGCATTGAAGG AGGACTTTGGATTTAAGCATCGGCTCTGGGTATATTCTGGAAGAGAGGTGTTTCATTGGTN GGTCTGTGATGAATCAGTTAGAAAAGTGTGCTCTGCAGTACTTTCTGGGATAGTTGAGTA TTTGAGCCTTGAAAAGGTGGCAAGACGTAAAAAGAAAGTTACCTAGTAAAAAATCCCC CCTTTATCGGANATCTTTAACCTATAAAAAATCCTTTGAGAATATGCTTTGGTAATAAGA ATTCTCCAAATAAGAAACGTGGGTAGGATTTACCCTGGGCTGAAACATTCATGAGGAA TTCACAAAACCTCCAAAGCTAAAATTCCTTACAGGTTGGGCGCTTAAAAAATGCCCCGA ATTCAAAACCTCCAAATAACAATGGCGCGCGGGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000946
<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>	<a href="#">NM_000946.2</a> , <a href="#">NP_000937.1</a>
<b>RefSeq Size:</b>	1471 bp
<b>RefSeq ORF:</b>	1263 bp
<b>Locus ID:</b>	5557
<b>UniProt ID:</b>	<a href="#">P49642</a>
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	DNA replication, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

**Gene Summary:**

The replication of DNA in eukaryotic cells is carried out by a complex chromosomal replication apparatus, in which DNA polymerase alpha and primase are two key enzymatic components. Primase, which is a heterodimer of a small subunit and a large subunit, synthesizes small RNA primers for the Okazaki fragments made during discontinuous DNA replication. The protein encoded by this gene is the small, 49 kDa primase subunit. [provided by RefSeq, Jul 2008]