

## Product datasheet for RC236156

### DNA Primase (PRIM2) (NM\_001282488) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DNA Primase (PRIM2) (NM\_001282488) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PRIM2  
**Synonyms:** p58; PRIM2A  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236156 representing NM\_001282488  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGTTTTCTGGAAGAAAGTGGAGGAAGCTGAGGTTGGCAGGTGACCAGAGGAATGCTTCTACCTC  
ATTGCCTTCAGTTTTACTTGCAGCCACCTTCTGAAAACATATCTTTAATAGAATTTGAAAACCTGGCTAT  
TGATAGAGTTAAATTGTTAAAATCAGTTGAAAATCTTGGAGTGAGCTATGTGAAAGGAACGAACAATAC  
CAGAGTAAGTTGGAGAGTGAGCTTCGGAAGCTCAAGTTTTCTACAGAGAAAACCTTGAAGATGAATATG  
AACCCACGAAGAAGAGATCATATTTCTCATTTTTATTTTGGCGCTTCTTATTGCCAGTCTGAAGAAGCTTAG  
ACGCTGGTTTCAACAAGAAATGGATCTCCTTCGATTTAGATTTTACCCAAGGATAAAATT  
CAGGATTTCTAAAGGATAGCCAATTGCAGTTTGGAGCTGTAAGTATATTTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236156 representing NM\_001282488  
Red=Cloning site Green=Tags(s)

MEFSGRKWRKRLLAGDQRNASYPHCLQFYLPQPSNISLIEFENLAIDRVKLLKSVENLGVSYVKGTEQY  
QSKLESELRKLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWFIQEMDLLRFRFSILPKDKI  
QDFLKDSQLQFEAVSIFL

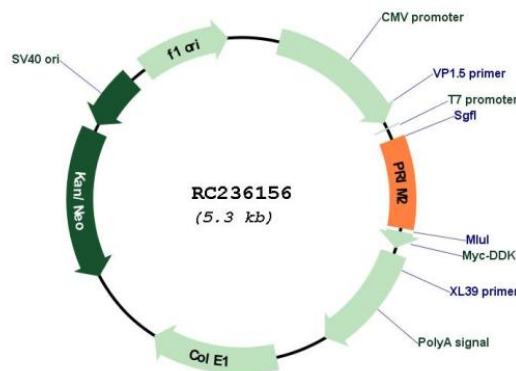
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001282488

ORF Size: 474 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.

<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><a href="#">NM_001282488.1</a></u> , <u><a href="#">NP_001269417.1</a></u>
<b>RefSeq Size:</b>	902 bp
<b>RefSeq ORF:</b>	477 bp
<b>Locus ID:</b>	5558
<b>UniProt ID:</b>	<u><a href="#">P49643</a></u>
<b>Cytogenetics:</b>	6p11.2
<b>Protein Pathways:</b>	DNA replication, Metabolic pathways, Purine metabolism, Pyrimidine metabolism
<b>MW:</b>	19.6 kDa
<b>Gene Summary:</b>	This gene encodes the 58 kilodalton subunit of DNA primase, an enzyme that plays a key role in the replication of DNA. The encoded protein forms a heterodimer with a 49 kilodalton subunit. This heterodimer functions as a DNA-directed RNA polymerase to synthesize small RNA primers that are used to create Okazaki fragments on the lagging strand of the DNA. Alternative splicing of this gene results in multiple transcript variants. This gene has a related pseudogene, which is also present on chromosome 6. [provided by RefSeq, Apr 2014]