

Product datasheet for **RG236156**

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: TurboGFP
Symbol: DNA Primase
Synonyms: p58; PRIM2A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236156 representing NM_001282488.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGTTTTCTGGAAGAAAGTGGAGGAAGCTGAGGTTGGCAGGTGACCAGAGGAATGCTTCCTACCCCT
CATTGCC TTCAGTTTTACTTGCAGCCACCTTCTGAAAACATATCTTTAATAGAATTTGAAAACCTGGCT
ATTGATAGAGTTAAATTGTTAAAATCAGTTGAAAATCTTGGAGTGAGCTATGTGAAAGGAACTGAACAA
TACCAGAGTAAGTTGGAGAGTGAGCTTCGGAAGCTCAAGTTTTCTACAGAGAAAACCTAGAAGATGAA
TATGAACCACGAAGAAGAGATCATATTTCTCATTTTATTTGCGGCTTGCTATTGCCAGTCTGAAGAA
CTTAGACGCTGGTTCATTCAACAAGAAATGGATCTCCTTCGATTTAGATTTAGATTTTACCCAAGGAT
AAAATTCAGGATTTCTTAAAGGATAGCCAATTGCAGTTTGAGGCTGTAAGTATATTTTTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236156
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MEFSGRKWRKLRLAGDQRNASYPHCLQFYLPPESENISLIEFENLAIDRVKLLKSVENLGVSYVKGTEQ
YQSKLESELRLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWFIQQEMDLLRFRFSILPKD
KIQDFLKDSQLQFEAVSIFL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


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.

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).

RefSeq: [NM_001282488.1](#), [NP_001269417.1](#)

RefSeq Size: 902 bp

RefSeq ORF: 477 bp

Locus ID: 5558

UniProt ID: [P49643](#)

Cytogenetics: 6p11.2

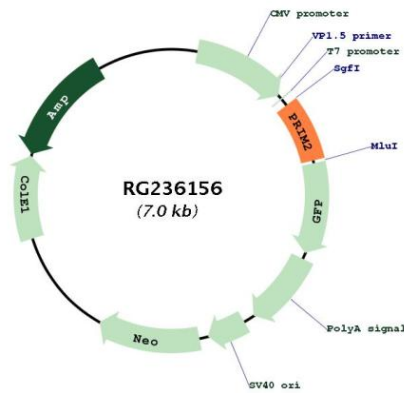
Protein Pathways: DNA replication, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

MW: 19.6 kDa

Gene Summary:

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]

Product images:



Circular map for RG236156