

## Product datasheet for **RG236155**

### DNA Primase (PRIM2) (NM\_001282487) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DNA Primase (PRIM2) (NM\_001282487) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PRIM2  
**Synonyms:** p58; PRIM2A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236155 representing NM\_001282487.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTTTTCTGGAAGAAAGTGGAGGAAGCTGAGGTTGGCAGGTGACCAGAGGAATGCTTCCTACCCCT
CATTGCC TTCAGTTTTACTTGCAGCCACCTTCTGAAAACATATCTTTAATAGAATTTGAAAACCTGGCT
ATTGATAGAGTTAAATTGTTAAAATCAGTTGAAAATCTTGGAGTGAGCTATGTGAAAGGAACTGAACAA
TACCAGAGTAAGTTGGAGAGTGAGCTTCGGAAGCTCAAGTTTTCTACAGAGAAAACCTAGAAGATGAA
TATGAACCACGAAGAAGAGATCATATTTCTCATTTTATTTGCGGCTTGCTTATTGCCAGTCTGAAGAA
CTTAGACGCTGGTTCATTCAACAAGAAATGGATCTCCTTCGATTTAGATTTAGATTTTACCCAAGGAT
AAAATTCAGGATTTCTTAAAGGATAGCCAATTGCAGTTTGAGGCTGTAAGTATATTTTTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236155  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MEFSGRKWRKLRLAGDQRNASYPHCLQFYLPPESENISLIEFENLAIDRVKLLKSVENLGVSYVKGTEQ
YQSKLESELRLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWFIQQEMDLLRFRFSILPKD
KIQDFLKDSQLQFEAVSIFL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI





<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>RefSeq:</b>	<a href="#">NM_001282487.2</a>
<b>RefSeq Size:</b>	871 bp
<b>RefSeq ORF:</b>	477 bp
<b>Locus ID:</b>	5558
<b>UniProt ID:</b>	<a href="#">P49643</a>
<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]