

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: PRIM2
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)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTTTTCTGGAAGAAAGTGGAGGAAGCTGAGGTTGGCAGGTGACCAGAGGAATGCTTCCTACCCT
CATTGCC TTCAGTTTTACTTGCAGCCACCTTCTGAAAACATATCTTTAATAGAATTTGAAAACCTGGCT
ATTGATAGAGTTAAATTGTTAAAATCAGTTGAAAATCTTGGAGTGAGCTATGTGAAAGGAACTGAACAA
TACCAGAGTAAGTTGGAGAGTGAGCTTCGGAAGCTCAAGTTTTCTACAGAGAAAACCTAGAAGATGAA
TATGAACCACGAAGAAGAGATCATATTTCTCATTTTATTTGCGGCTTGCTTATTGCCAGTCTGAAGAA
CTTAGACGCTGGTTCATTCAACAAGAAATGGATCTCCTTCGATTTAGATTTAGATTTTACCCAAGGAT
AAAATTCAGGATTTCTTAAAGGATAGCCAATTGCAGTTTGAGGCTGTAAGTATATTTTTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236156
Blue=ORF Red=Cloning site Green=Tag(s)

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MEFSGRKWRKLRLAGDQRNASYPHCLQFYLPPESENISLIEFENLAIDRVKLLKSVENLGVSYVKGTEQ
YQSKLESELRLKFSYRENLEDEYEPRRRDHISHFILRLAYCQSEELRRWFIQQEMDLLRFRFSILPKD
KIQDFLKDSQLQFEAVSIFL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI



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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]