OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC334049

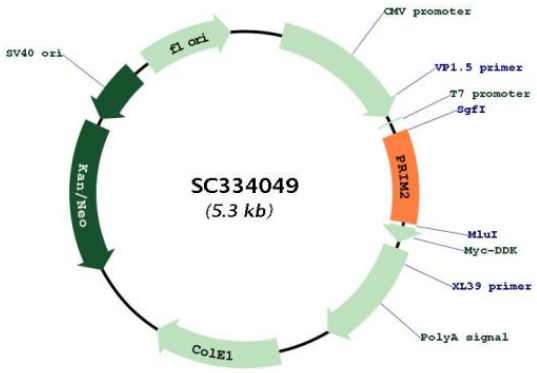
DNA Primase (PRIM2) (NM_001282487) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA Primase (PRIM2) (NM_001282487) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRIM2
Synonyms:	p58; PRIM2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334049 representing NM_001282487. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGAGTTTTCTGGAAGAAAGTGGAGGAAGCTGAGGTTGGCAGGTGACCAGAGGAATGCTTCCTACCCT CATTGCCTTCAGTTTTACTTGCAGCCACCTTCTGAAAACATATCTTTAATAGAATTTGAAAACTTGGCT ATTGATAGAGTTAAATTGTTAAAATCAGTTGAAAATCTTGGAGTGAGCTATGTGAAAGGAACTGAACAA TACCAGAGTAAGTTGGAGAGTGAGCTTCGGAAGCTCAAGTTTTCCTACAGAGAAAACTTAGAAGATGAA TATGAACCACGAAGAAGAGATCATATTTCTCATTTTATTTTGCGGCTTGCTTATTGCCAGTCTGAAGAA CTTAGACGCTGGTTCATTCAACAAGAAATGGATCTCCTTCGATTTAGATTTAGTATTTTACCCAAGGAT AAAATTCAGGATTTCTTAAAGGATAGCCAATTGCAGTTTGAGGCTGTAAGTATATTTTTGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001282487
Insert Size:	477 bp
OTI Disclaimer:	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).
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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_001282487.1

RefSeq Size:	871 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:	19.1 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] Transcript Variant: This variant (2) lacks multiple 3' coding exons and its 3' terminal exon extends past a splice site used in variant 1, resulting in a distinct 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (b) is shorter and has a distinct C-terminus, compared to isoform a. Variants 2 and 3 encode the same isoform (b).