

Product datasheet for RC209767

PAPP A (PAPPA) (NM_002581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAPP A (PAPPA) (NM_002581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAPP A
Synonyms:	ASBABP2; DIPLA1; IGFBP-4ase; PAPA; PAPP-A; PAPPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209767 representing NM_002581 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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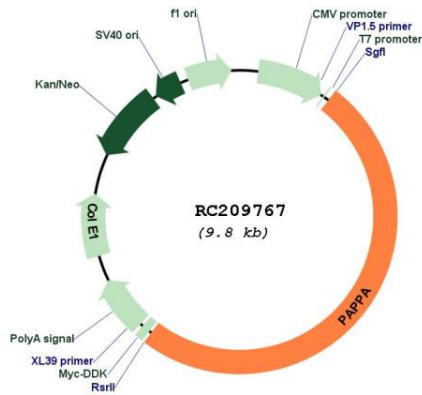
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TGGATTACAAGGATGACGACGATAAGGTTTAA

ORF Size:	4881 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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).
Reconstitution Method:	<ol style="list-style-type: none"> 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_002581.5
RefSeq Size:	11025 bp
RefSeq ORF:	4884 bp
Locus ID:	5069
UniProt ID:	Q13219
Cytogenetics:	9q33.1
Protein Families:	Druggable Genome, Protease, Secreted Protein
MW:	181.4 kDa

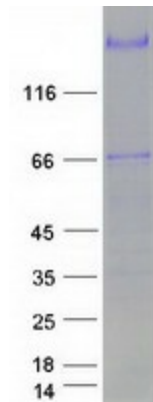
Gene Summary:

This gene encodes a secreted metalloproteinase which cleaves insulin-like growth factor binding proteins (IGFBPs). Following IGFBP cleavage, insulin growth factors dissociate from IGFBPs and bind to IGF receptors, resulting in activation of the IGF pathway. The encoded protein plays a role in bone formation, inflammation, wound healing and female fertility. Enhanced expression of this protein is associated with diabetic nephropathy in human patients and this protein may promote tumor invasion and growth in various human cancers. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RC209767



Coomassie blue staining of purified PAPP A protein (Cat# [TP309767]). The protein was produced from HEK293T cells transfected with PAPP A cDNA clone (Cat# RC209767) using MegaTran 2.0 (Cat# [TT210002]).