

## Product datasheet for **KN209767BN**

### **PAPP A (PAPPA) Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

<b>Product Type:</b>	Knockout Kits (CRISPR)
<b>Format:</b>	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
<b>Donor DNA:</b>	mBFP-Neo
<b>Symbol:</b>	PAPP A
<b>Locus ID:</b>	5069
<b>Components:</b>	<b>KN209767G1</b> , PAPP A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN209767G2</b> , PAPP A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN209767BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
<b>Disclaimer:</b>	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
<b>RefSeq:</b>	<a href="#">NM_002581</a>
<b>UniProt ID:</b>	<a href="#">Q13219</a>
<b>Synonyms:</b>	ASBABP2; DIPLA1; IGFBP-4ase; PAPA; PAPP-A; PAPPA1
<b>Summary:</b>	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]



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## Product images:

