

Product datasheet for **KN209767**

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

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	PAPP A
Locus ID:	5069
Components:	<p>KN209767G1, PAPP A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGCTGGCCGAGCGTCCCCGC</p> <p>KN209767G2, PAPP A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGCTGCTGAGCGCCGCGC</p> <p>KN209767D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>Homologous arm and GFP-puro sequences: pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</p> <pre> ATTAGTCATG ATCCCCGAG TTTAACAGG GACTCATTCA ATTGGGAAGG TGGAGCGCTG GGGAGCAGAT TAGCATACGC TTGTTTACTC ATCTTCTGAG GGATTTTTTC CCCCTCTTTC CTTTCATTTT GAGAAGAAGG AGGGAGGGGA GGGGGGACTT GGGGGGGGAG AAGGGGGCTG TGGCTTGTGT TATAAAGGAC GCAAAAAATA AATAAATTAG AGCATCTTTT GGGGGGAGGG AATTCAGCGG ATCAGTCTTA AGAGGAGCTT TTTTTTGGAG CGAGAAATCA TATAAAATAA AATGAAATAA AACAAAGGAGG AAGGCAACCA GCTGTTAGGG GAAAAATAAG GCAGATAAAG GAGCGGGGAG AGAAATTAAT TGCCAACCAG GAGGAGTTGG GCTGTATTTT TCAAAGGTGG GGAGAGTGGG GCACACACCT TGAGGAGGAA AGCGAGAAAG AAAAGAAAAA AGCAAGTGGG AAGGGGGGCT CGCCCAAGAA GGGTGAAGAA GCGAAGAAAG TCGAGGCGCC GAGGCTCCCA AAGCTGGCAG CTCCGGGTGG CGGTGCAGGG GCGAAGGGGG GCGGGGGGGA ACCGTCCGAC CCGGCCGACC CCCGCGCCCC GCCCGCGGCC CGGCCACCTG CGCCACCCGG GCGGCCCGCG GCCGCCGCGC CTCGCCCGCG CCGCCGCGCC CGCCGGGCGG TGCCTGGGAA GCCGTGCGCG TCCCCCGCG GCGGCAGCAG CGGGAGGCGA GGGGCGCCAC CGAGGAGCCG AGCCCGCCGA GCCGGGCGCT CTATTTTACG GGGCGAGGCG AGCAGTGCGC CCTCCGGGCC GACCTCGAGC TGCCCCGGGA CGGTTCACG CTGCAAGTGT GGCTGCGAGC GGAGGGGGGC CAGAGGTCTC CGGCAGTGAT CACAGGTAGG TGAGGGCGCC TGGCGGGCG CTGCACGTC CCTGCGGCC CAGAGGCTCG CGGGTGTCTG GGCGCGGGTG GCGGGCGGGT CGGGGGCTTG CGGGCGTGTC TGTGCGAGAG CTGCCCCGCG AGCGGCGCAG AGACATCCGG GCGAGCTGAG AGCCTCACTT TGCTCCATCG GTGGAATGGG CACTCTCGGA AGGCGTAGCT GCTCCATCCC TGGGAGGAAC CTGGGGAGCC CTCCTGGCGG CCCC GCGGAC CCTCGGCCAG TGAGGGCTGG TTCCCGGAGC </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



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Disclaimer: 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.

RefSeq: [NM_002581](#)

UniProt ID: [Q13219](#)

Synonyms: ASBABP2; DIPLA1; IGFBP-4ase; PAPA; PAPP-A; PAPPA1

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:

