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Product datasheet for KN209767

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

Product data:

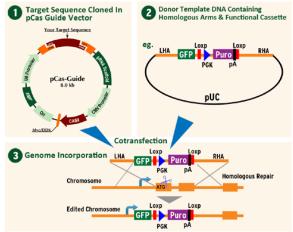
Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	PAPP A
Locus ID:	5069
Components:	 KN209767G1, PAPP A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGCTGGCCGAGCGTCCCCGC KN209767G2, PAPP A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGCTGCTGAGCGCCGCGC KN209767D, donor DNA containing left and right homologous arms and GFP-puro functional cassette. Homologous arm and GFP-puro sequences: pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet ATTAGTCATG ATCCCCGCAG TTTTAACAGG GACTCATTCA ATTGGGAAGG TGGAGCGCTG GGGAGCAGAT TAGCATACGC TIGTTTACTC ATCTTCTGAG GACTCATTCA ATTGGGAAGG TGGAGCGCTG GGGAGCAGAT TAGCATACGC TIGTTTACTC ATCTTCTGAG GACTCATTCA ATTGGGAAGG TGGAGCGCTG GGAAGAAATA AATAAATTAG AGCATCTTTT GGGGGGAGGG AATCAACGG ATCAGTCTTA AGAGGAAGCT TTTTTTGGAG CGAGAAATCA TATAAAATAA AATGAAATAA AACAAGGAGG AAGGCAACCA GCTGTTAGGG GAAAAATAA AATAAATAA GACACTCTTT GGGGGGAGGA AGGCGACGG ACACACCA GCTGTTAGGG GAAAAATAA GGAGAGTGGA GGGGGGACT TGGGGGGGAGA AGCGAGAAAG AAAAGAAAAA AGCAAGTGGA AAGGGGGCT CGCCCAAGAA GGACGAAGAA GCGAAGAAAA TCAACGAGGAGG AAGGCAACCA GCTGTTATGT TAAAGGTGG GGAGAGTGGA GCCGGGGGG AGCGAAAAAA TAA AACAAGGAGG AAGGCAACCA GCTGTATTTT TCAAAGGTGG GGAGAGTGGA GCCCGCCCGC GCCGCCGCG CCGCCGCGC CCGCCGCGCC CGGCCACCTG CGCCACCCG GCGGCCGCG GCCGCCGCG CCGCCGCCG CCGCGGCG



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	PAPP A (PAPPA) Human Gene Knockout Kit (CRISPR) – KN209767
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:	<u>NM 002581</u>
UniProt ID:	<u>Q13219</u>
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:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter

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