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Product datasheet for RC222543

PAPP A2 (PAPPA2) (NM_021936) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAPP A2 (PAPPA2) (NM_021936) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAPP A2
Synonyms:	PAPP-A2; PAPP-E; PAPPE; PLAC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC222543 representing NM_021936
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGTGCTTAAAGATCCTAAGAATAAGCCTGGCGATTTTGGCTGGGTGGGCACTCTGTTCTGCCAACT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC222543 representing NM_021936
Red=Cloning site Green=Tags(s)

MMCLKILRISLAILAGWALCSANSELGWTRKKSLVEREHLNQVLLEGERCWLGAKVRRPRASPQHHLFGV
YPSRAGNYLRPYPVGEQEIHHTGRSKPDTEGNAVSLVPPDLTENPAGLRGAVEEPAAPWVGDSPIGQSEL
LGDDDAYLGNQRSKESLGEAGIQKGSAMAATTTTAIFTTLNEPKPETQRRGWAKSRQRRQVWKRRAEDGQ
GDSGISSHFQPWPKHSLKHRVKKSPPEESNQNGGEGSYREAETFNSQVGLPILYFSGRRERLLLRPEVLA
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TILISHSRYQPGTWTHVAATYDGRHMALYVDGTQVASSLDQSGPLNSPFMASCRSLLLGGDSSEDGHYFR
GHLGTLVFWSTALPQSHFQHSSQHSSGEEEATDLVLTASFEPVNTEWVPFRDEKYPRLEVLQGFEPEPEI
LSPLQPPLCGQTVCDNVELISQYNGYWPLRGEKVIRYQVVNICDDEGLNPIVSEEQIRLQHEALNEAFSR
YNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGNDHCDPECEHPLTGYDGGDCRLQGRCYSWNRRDGLCHV
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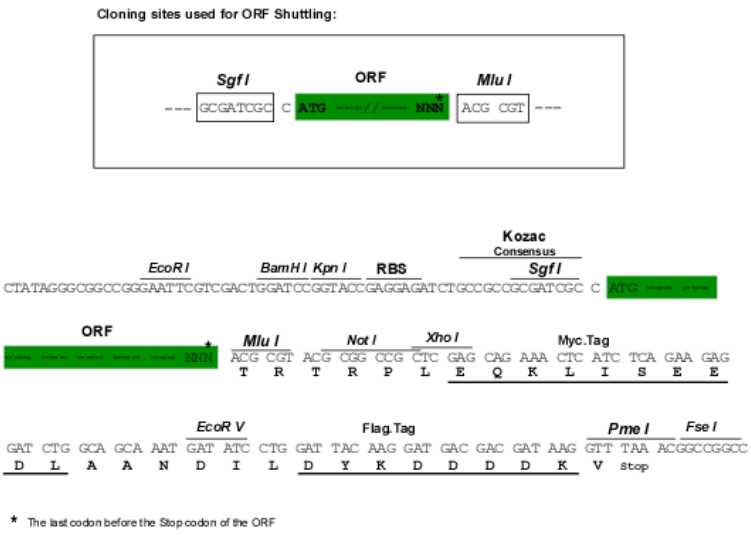
TWPWDKDAVTHLGGIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVFKGVSERESCNDPCKETVPSMETGDL
CADTAPTPKSELCREPEPTSDTCGFTRFPGAPFTNYMSYTGITTVLFCFLLRIHGGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_021936
ORF Size:	2481 bp
OTI Disclaimer:	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
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: 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_021936.3

RefSeq Size: 4370 bp

RefSeq ORF: 2484 bp

Locus ID: 60676

UniProt ID: Q9BXP8

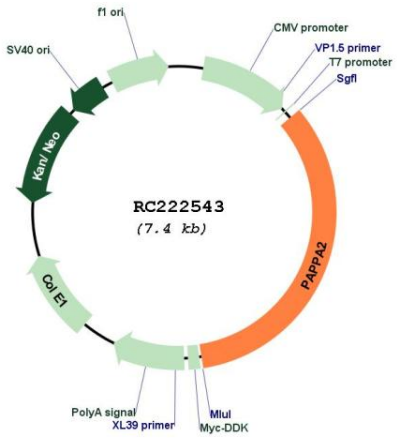
Cytogenetics: 1q25.2

Protein Families: Protease, Secreted Protein

MW: 92 kDa

Gene Summary: This gene encodes a member of the pappalysin family of metzincin metalloproteinases. The encoded protein cleaves insulin-like growth factor-binding protein 5 and is thought to be a local regulator of insulin-like growth factor (IGF) bioavailability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RC222543