

Product datasheet for RC215960

PAPP A2 (PAPPA2) (NM_020318) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAPP A2 (PAPPA2) (NM_020318) 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)
ORF Nucleotide Sequence:	>RC215960 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTGCTTAAAGATCCTAAGAATAAGCCTGGCGATTTTGGCTGGTGGGCACTCTGTTCTGCCAACT
CTGAGCTGGGCTGGACACGCAAGAAATCCTTGGTTGAGAGGGAACACCTGAATCAGGTGCTGTTGGAAGG
AGAACGTTGTTGGCTGGGGCCAAAGTTTGAAGACCCAGAGCTTCTCCACAGCATCACCTCTTTGGAGTC
TACCCAGCAGGGCTGGAACTACCTAAGGCCCTACCCCGTGGGGAGCAAGAAATCCATCATACAGGAC
GCAGCAAACCAGACACTGAAGGAAATGCTGTGAGCCTTGTCCCCAGACCTGACTGAAAATCCAGCAGG
ACTGAGGGGTGCAGTTGAAGAGCCGGCTGCCCATGGGTAGGGGATAGTCCTATTGGGCAATCTGAGCTG
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ACCATCTTGATTAGCCACAGTCGCTACCAACCAGGCACATGGACCCATGTGGCAGCCACTTACGATGGAC
GGCACATGGCCCTGTATGTGGATGGCACTCAGGTGGCTAGCAGTCTAGACCAGTCTGGTCCCCTGAACAG
CCCCTTATGGCATCTTGCCGCTCTTTGCTCCTGGGGGAGACAGCTCTGAGGATGGGCACTATTTCCGT
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CTGTGCCTTTGCAGCCCCACTCTGTGGGCAAACAGTCTGTGACAATGTGGAATTGATCTCCCAGTACA
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TGGAACCTGTCAAAGTCCAGAGCATTGTGTGCACTGGCCGGCGTCAATGGCACCCAGACCCCGTCTTAGT
 CCACTGCATCCAGTCATGTGAGCCCTTCCAAGCAGATGGTTGGTGTGACACTATCAACAACCGAGCCTAC
 TGCCACTATGACGGGGGAGACTGCTGCTTCCACACTCTCTCCAAGAAGGTCATTCCATTTGCTGCTG
 ACTGTGACCTGGATGAGTGCACCTGCCGGGACCCAAGGCAGAAGAAAATCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215960 protein sequence
 Red=Cloning site Green=Tags(s)

MMCLKILRISLAILAGWALCSANSELGWTRKKSVEREHLNQVLEGERCWLGAQVRRPRASPQHHLFGV
 YPSRAGNYLRYPVGEQEIHHTGRSKPDEGNAVSLVPPDLTENPAGLRGAVEEPAAPWVGDSPHQSEL
 LGDDDAYLGNQSKESLGEAGIQKGSAMAATTTAIFTTLNEPKPETQRRGWAKSRQRQVWKRRAEDGQ
 GDSGISSHFQPWPKHSLKHRVKKSPPEESNQNGEGSYREAETFNQVGLPILYFSGRRERLLLPEVLA
 EIPREAFTEAWVKPEGQNNPAIIAGVFDNCSHTVSDKGWALGIRSGDKGKRDARFFFSLCTDRVKKA
 TILISHSRYQPGTWHVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDSSEDDGHYFR
 GHLGTLVFWSTALPQSHFQHSQHSSEEEATDLVLTASFEPVNTWVWPFDEKYPRLVQLQGFPEPEI
 LSPLQPPLCGQTVCDNVELISQYNGYWPLRGEKVIQVQVNIQDDEGLNPIVSEEQIRLQHEALNEAFSR
 YNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGNDHCDPECEHPLTGYDGGDCRLQRCYSWNRDGLCHV
 ECNMLNDFDDGDCDQVADVKTFCDFDPSKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAA
 TWPWDKDAVTHLGGIVLSPAYYGMFGHTDTMIHEVGHVGLGYHVFKGVSERESCNDPCKETVPSMETGDL
 CADTAPTPKSELCREPEPTSDTCGFTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQQWTES
 RKPTPIPIPPMVIQGTNKSLLTIHWLPPISGVVYDRASGSLCGACTEDGTFRQYVHTASSRRVCDSSGYWT
 PEEAVGPPDQVQCEPSLQAWSPEVHLHYHMMNTVPCPTEGCSLELLFQHPVQADTLTLWVTSFFMESSQV
 LFDTEILLENKESVHLGPLDTFCDIPLTIKLVHDGKVSQVYVTFDERIEIDAALLTSQPHSPLCSGCRP
 VRYQVLRDPPFASGLPVVVTHSHRKFDTVEVTPGQMYQYQVLAEAGGELGEASPLNHIHGAPYCGDGKV
 SERLGECCDDGDLVSGDGCSKVCELEEGFNCVGEPSLCYMEYGDGICEPFERKTSIVDCGIYTPKGYLDQ
 WATRAYSHEDKKKCPVSLVTGEPHSLICTSYHPDLNHRPLTGWFPVASENETQDDRSEQPEGLKKE
 DEVWLKVCFNRPGEARAIIFLTTDGLVPGEHQPTVTLVLTVDVRSNHSGLTYGLSCQHNPLIINVTHH
 QNVLFHHTTSVLLNFSRPRVGISAVALRTSSRIGLSAPSNCISEDEGQNHQGSQIHRPCGKQDSCPSLL
 LDHADVVNCTSIGPLMKCAITCQRFALQASSGQYIRPMQKEILLTCSSGHWDQNVSCLPVDCGVPDPS
 LVNYANFSCSEGTFLKRCISICVPPAKLQGLSPWLTCLDGLWVSLPEVYCKLECDAPPIILNANLLPH
 CLQDNHDVGTICKYECKPGYVAESAEGKVRNLLKIQCLEGGIWEQGSQIPVVEPPPPVFEGMYECTN
 GFLDLSQVLCNQEREKLPILCTKEGLWTQEFKLCENLQGECPPPPSELNSVEYKCEQGYGIGAVCSPL
 CVIPPSDPVMLPENITADTLEHWMPEVKVQSIQVCTGRRQWHPDPVLVHCISQCEPFQADGWCDTINNRAY
 CHYDGGCCSSTLSSKKVIPFAADCDLDECTCRDPKAEENQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_020318

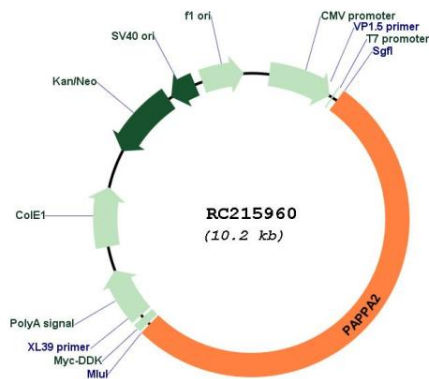
ORF Size: 5373 bp

OTI Disclaimer: 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.

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:	<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:	<u>NM_020318.3</u>
RefSeq Size:	6940 bp
RefSeq ORF:	5376 bp
Locus ID:	60676
UniProt ID:	<u>Q9BXP8</u>
Cytogenetics:	1q25.2
Protein Families:	Protease, Secreted Protein
MW:	198.5 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 RC215960