

Product datasheet for **RC220904**

PAEP (NM_001018049) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAEP (NM_001018049) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PAEP
Synonyms: GD; GdA; GdF; GdS; PAEG; PEP; PP14; ZIF-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220904 representing NM_001018049
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCTGTGCCTCCTGCTCACCCTGGGCGTGGCCCTGGTCTGTGGTGTCCCGGCCATGGACATCCCCAGA
CCAAGCAGGACCTGGAGCTCCCAAAGTTGGCAGGGACCTGGCACTCCATGGCCATGGCGACCAACAACAT
CTCCCTCATGGCGACACTGAAGGCCCTCTGAGGGTCCACATCACCTCACTGTTGCCACCCCGAGGAC
AACCTGGAGATCGTTCTGCACAGATGGGAGAACAACAGCTGTGTTGAGAAGAAGGTCCTTGAGAGAAGA
CTGAGAATCCAAAGAAGTTCAAGATCAACTATACGGTGGCGAACGAGGCCACGCTGCTCGATACTGACTA
CGACAATTTCTGTTTCTCTGCCTACAGGACACCACCACCCCATCCAGAGCATGATGTGCCAGTACCTG
GCCAGAGTCCTGGTGGAGGACGATGAGATCATGCAGGGATTTCATCAGGGCTTTCAGGCCCTGCCAGGC
ACCTATGGTACTTGCTGGACTTGAACAGATGGAAGAGCCGTGCCGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220904 representing NM_001018049
Red=Cloning site Green=Tags(s)

MLCLLLTLGVALVCGVPAMDIPQTKQDLELPKLAGTWHSMAMATNNISLMATLKAPLRVHITSLLPTPED
 NLEIVLHRWENNSCVEKKVLGEKTENPKKFKINYTVANEATLLDTDYDNFLFLCLQDTTTPIQSMQCQYL
 ARVLVEDDEIMQGFIRAFRPLPRHLWYLLDLKQMEPCRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

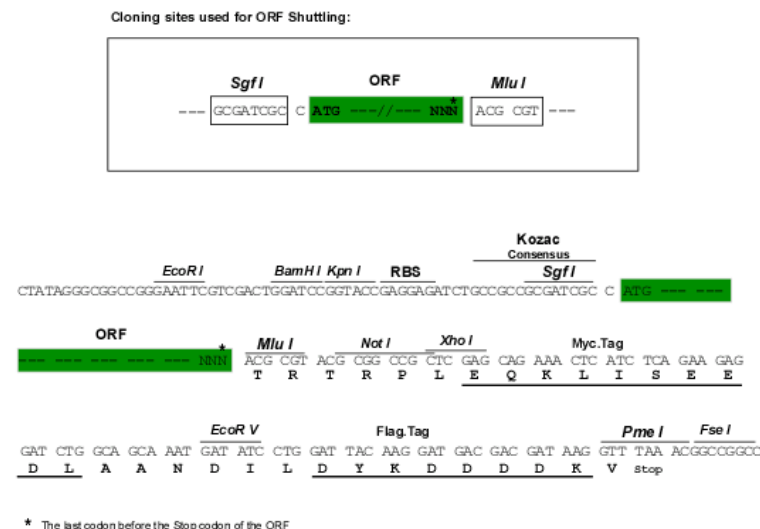
Chromatograms: https://cdn.origene.com/chromatograms/mg2762_e05.zip



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM 001018049

ORF Size: 540 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

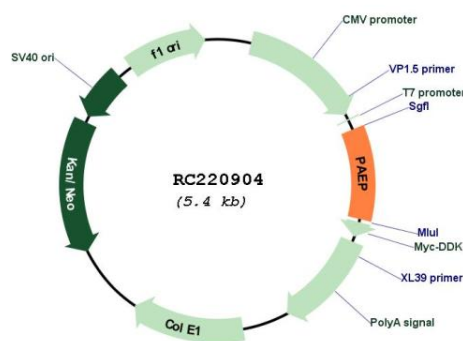
RefSeq: NM_001018049.3

RefSeq Size: 857 bp

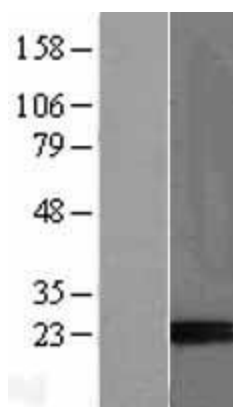
RefSeq ORF: 543 bp

Locus ID:	5047
UniProt ID:	P09466
Cytogenetics:	9q34.3
Protein Families:	Druggable Genome
MW:	20.62 kDa
Gene Summary:	<p>This gene is a member of the kernel lipocalin superfamily whose members share relatively low sequence similarity but have highly conserved exon/intron structure and three-dimensional protein folding. Most lipocalins are clustered on the long arm of chromosome 9. The encoded glycoprotein has been previously referred to as pregnancy-associated endometrial alpha-2-globulin, placental protein 14, and glycodeilin, but has been officially named progesterone-associated endometrial protein. Three distinct forms, with identical protein backbones but different glycosylation profiles, are found in amniotic fluid, follicular fluid and seminal plasma of the reproductive system. These glycoproteins have distinct and essential roles in regulating a uterine environment suitable for pregnancy and in the timing and occurrence of the appropriate sequence of events in the fertilization process. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]</p>

Product images:



Circular map for RC220904



Western blot validation of overexpression lysate (Cat# [LY422704]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220904 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).