

Product datasheet for **RC215526**

Pregnancy zone protein (PZP) (NM_002864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pregnancy zone protein (PZP) (NM_002864) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pregnancy zone protein
Synonyms:	CPAMD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215526 representing NM_002864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

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Protein Sequence: >RC215526 representing NM_002864
 Red=Cloning site Green=Tags(s)

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Chromatograms: https://cdn.origene.com/chromatograms/mk8028_f07.zip

Restriction Sites: SgfI-MluI

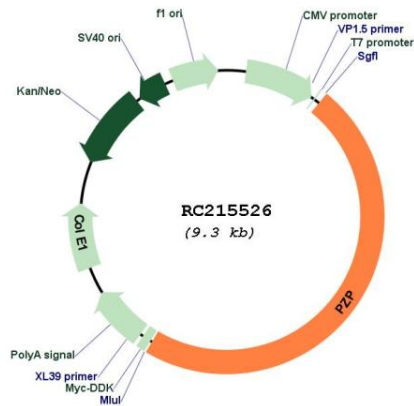
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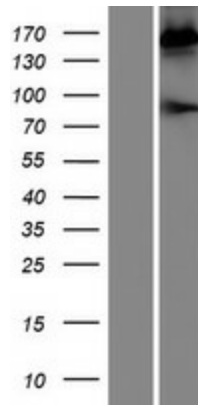
ACCN: NM_002864

ORF Size:	4446 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_002864.3
RefSeq Size:	4615 bp
RefSeq ORF:	4449 bp
Locus ID:	5858
Cytogenetics:	12p13.31
Domains:	A2M, A2M_N
Protein Families:	Druggable Genome
MW:	163.7 kDa
Gene Summary:	The protein encoded by this gene is highly expressed in late-pregnancy serum and is similar in structure to alpha-2-macroglobulin. The encoded protein, which acts as a homotetramer, inhibits the activity of all four classes of proteinases. This protein contains cleavage sites for several proteinases. Upon binding of a proteinase, the conformation of this protein changes to trap the proteinase, limiting its activity. This protein appears to be elevated in the sera of presymptomatic Alzheimer's disease patients. [provided by RefSeq, Dec 2016]

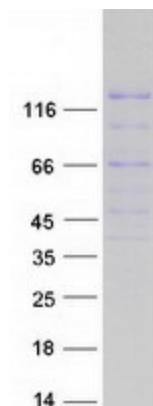
Product images:



Circular map for RC215526



Western blot validation of overexpression lysate (Cat# [LY419057]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215526 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PZP protein (Cat# [TP315526]). The protein was produced from HEK293T cells transfected with PZP cDNA clone (Cat# RC215526) using MegaTran 2.0 (Cat# [TT210002]).