

Product datasheet for RC217389

PPIL3 (NM_131916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPIL3 (NM_131916) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPIL3
Synonyms:	cyclophilin-like protein 3; cyclophilin J; CYPJ; peptidylprolyl cis-trans isomerase-like protein 3; peptidylprolyl isomerase (cyclophilin)-like 3; peptidylprolyl isomerase-like 3; PPIase-like protein 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217389 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTCTGTGACTGCATACAGATGTAGGTGATATTAATGAAGTCTTCTGTGAGAGGACACCCAAAA
CATGTGAGAATTTCTTGGCTCTTTGTGCCAGTAATTAACAATGGCTGTATATTCATAGGAATATCAA
GGGTTTCATGGTTCAAACAGGAGATCCAACAGGAAGTGAAGAGGAGGCAACAGTATTTGGGCAAGAAG
TTTGAGGATGAATACAGTGAATATCTTAAGCACAAATGTTAGAGGTGTTGTATCTATGGCTAATAATGGCC
CGAACACCAATGGATCTCAGTTCCTCATCACCTATGGCAAACAGCCACATTTGGACATGAAATACACCGT
ATTTGGAAAGGTAATAGATGGTCTGAAACTCTAGATGAGTTGGAGAAGTTGCCAGTAAATGAGAAGACA
TACCGACCTCTTAATGAGGTACACATTAAGGACATAACTATTCATGCCAACCCATTTGCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC217389 protein sequence Red=Cloning site Green=Tags(s)
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MSVTLHTDVGDIKIEVFCERTPKTCENFLALCASNYNGCIFHRNIKGFMVQTDGPTGTGRGGNSIWGKK
FEDEYSEYLKHNVRGVVSMANNGPNTNGSQFFITYGKQPHLDMKYTVFGKVIDGLETLDELEKLPVNEKT
YRPLNEVHIKDITIHANPFAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6410_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_131916

ORF Size: 483 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_131916.1](#), [NP_572028.1](#)

RefSeq Size: 1620 bp

RefSeq ORF: 485 bp

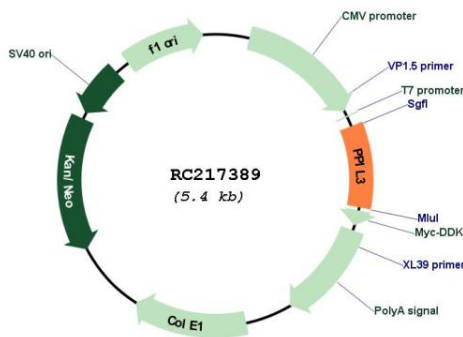
Locus ID: 53938

Cytogenetics: 2q33.1

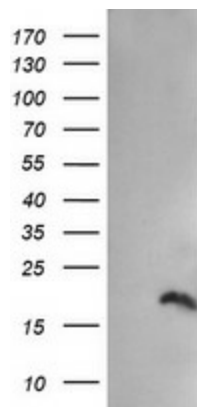
MW: 18.2 kDa

Gene Summary: This gene encodes a member of the cyclophilin family. Cyclophilins catalyze the cis-trans isomerization of peptidylprolyl imide bonds in oligopeptides. They have been proposed to act either as catalysts or as molecular chaperones in protein-folding events. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2008]

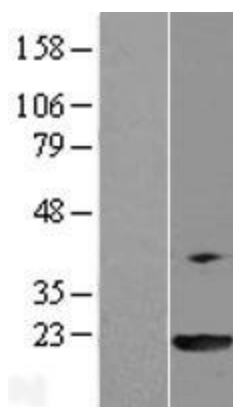
Product images:



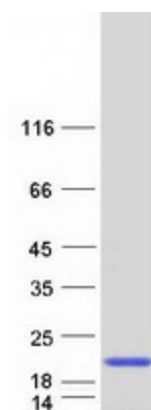
Circular map for RC217389



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PPIL3 (Cat# RC217389, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPIL3 (Cat# [TA505349]). Positive lysates [LY408889] (100ug) and [LC408889] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408889]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217389 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPIL3 protein (Cat# [TP317389]). The protein was produced from HEK293T cells transfected with PPIL3 cDNA clone (Cat# RC217389) using MegaTran 2.0 (Cat# [TT210002]).