

Product datasheet for **RC200694**

PCLAF (NM_014736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCLAF (NM_014736) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCLAF
Synonyms:	KIAA0101; L5; NS5ATP9; OEATC; OEATC-1; OEATC1; p15(PAF); p15/PAF; p15PAF; PAF; PAF15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200694 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC CGATCGCC ATGGTGCGGACTAAAGCAGACAGTGTCCAGGCACCTACAGAAAAGTGGTGGCTGCTCGAGCCCCAGAAAGGTGCTTGGTTCTCCACCTCTGCCACTAATTCGACATCAGTTTCATCGAGGAAAGCTGAAAATAATA TGCAGGAGGGAACCCCGTTTGCCTGCGCCCACTCCCAAGTGGCAAAAAGGAATTGGAGAATTCTTTAGG TTGTCCCCTAAAGATTCTGAAAAAGAGAATCAGATTCTGAAGAGGCAGGAAGCAGTGGCTTAGGAAAAG CAAAGAGAAAAGCATGTCCTTTGCAACCTGATCACACAAATGATGAAAAAGAA ACGCGT ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA >RC200694 protein sequence Red=Cloning site Green=Tags(s) MVRTKADSVPGTYRKVVAARAPRKVLGSSTSATNSTSVSSRKAENKYAGGNPVCVRPTPKWQKIGIEFFR LSPKDSEKENQIPEEAGSSGLGKAKRKACPLQPDHTNDEKE TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Protein Sequence:	>RC200694 protein sequence Red=Cloning site Green=Tags(s) MVRTKADSVPGTYRKVVAARAPRKVLGSSTSATNSTSVSSRKAENKYAGGNPVCVRPTPKWQKIGIEFFR LSPKDSEKENQIPEEAGSSGLGKAKRKACPLQPDHTNDEKE TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6381_h09.zip
Restriction Sites:	SgfI-MluI



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Cloning Scheme:



ACCN: NM_014736

ORF Size: 333 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_014736.6](#)

RefSeq Size: 1515 bp

RefSeq ORF: 336 bp

Locus ID: 9768

UniProt ID: [Q15004](#)

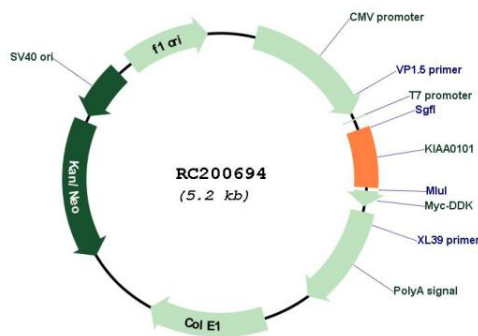
Cytogenetics: 15q22.31

Protein Families: Druggable Genome

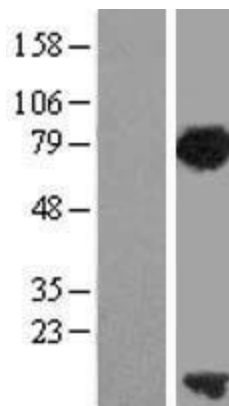
MW: 12 kDa

Gene Summary: PCNA-binding protein that acts as a regulator of DNA repair during DNA replication. Following DNA damage, the interaction with PCNA is disrupted, facilitating the interaction between monoubiquitinated PCNA and the translesion DNA synthesis DNA polymerase eta (POLH) at stalled replisomes, facilitating the bypass of replication-fork-blocking lesions. Also acts as a regulator of centrosome number.[UniProtKB/Swiss-Prot Function]

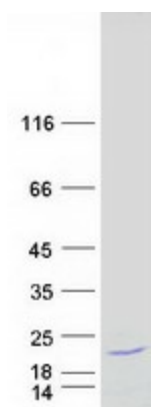
Product images:



Circular map for RC200694



Western blot validation of overexpression lysate (Cat# [LY415072]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200694 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PCLAF protein (Cat# [TP300694]). The protein was produced from HEK293T cells transfected with PCLAF cDNA clone (Cat# RC200694) using MegaTran 2.0 (Cat# [TT210002]).