

Product datasheet for **RC206774**

PSTK (NM_153336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSTK (NM_153336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSTK
Synonyms:	C10orf89
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206774 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACCGCCGAGAACATCAGAGGAACCGGCAGCGACGGGCCGCGAAACGAGGCCTCTGCGTCCTCT
GTGGCCTCCCGCGGCAGGAAAATCGACTTTCGCGCGCCCTCGCCACCGGCTGCAGCAGGAGCAGGG
TTGGGCCATCGGTGTTGTCGCGTATGATGACGTATGCCGACGCGTTTCTCGCCGGGGCAAGAGCGCGA
CCGGCGCCATCCAATGAAAATTGCTTCGACAGGAAGTGAAGTACCTGGAATACTTCTTGATGGCTG
TCATTAATGGGTGTCAGATGTCTGTCCACCCAACAGGACTGAAGCCATGTGGGAAGATTTATAACCTG
CTTAAAGGATCAAGATCTGATATTTCTGCAGCATTTGAGGCCAGTCTTGCTACCTTTAACAAAACCT
GCTGTTTTCTAGACCTTTGTTTTGGTTTTGGATGACAATTTTTATTATCAGAGTATGAGATGAAGTCT
ACCAGCTGGCTCGGAAATATTCATTGGGCTTTTGCCAGCTTTTTAGATTGTCCTCTTGAGACCTGTTT
ACAGAGGAATGGCCAGAGGCCACAGGCACTGCCTCCTGAGACCATCCACCTGATGCGAAGAAAGCTAGAA
AAGCCCAACCTGAGAAAAATGCTTGGGAACACAACAGCCTCACAAATCCGAGTCCAGCATGTGCTTCGG
AGGCCAGCCTGGAAGTACTGATTTATTGCTCACTGCTTTGGAAAATCCAGTAAAATATGCTGAGGACAA
TATGGAACAAAAGGACACAGACAGAATTATTTGTTCAACTAACATTCTTCATAAAACTGATCAGACACTC
CGAAGGATTGTATCTCAGACAATGAAGGAAGCAAAGGTAATCAGGAAGCCTTCTCAGAGATGACATTTA
AGCAAAGATGGGTAAAGAGCGAACCATGCAGCTATCTGGAGGATCATTCTAGGCAATGAACACATCAAGTG
CAGAAGCGCAAAGGTTGGCTGGTTCAGTGTTCAGAATCGAGAAGAGGCCATTGAGCACGGGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206774 protein sequence
Red=Cloning site Green=Tags(s)

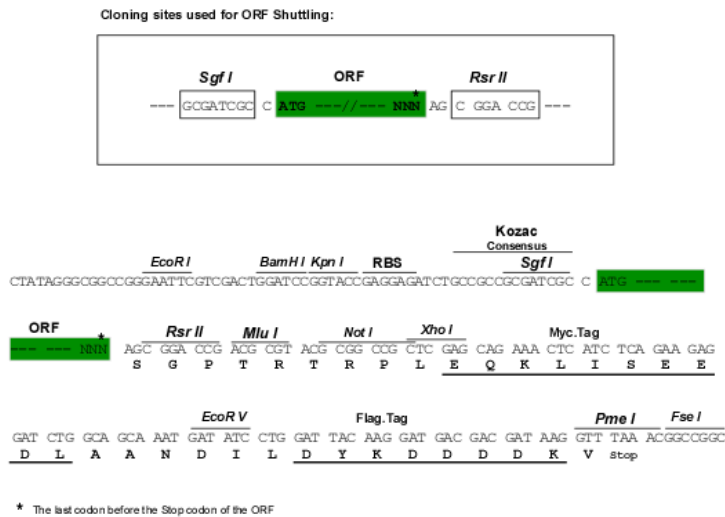
MKTAENIRGTGSDGPRKRGLCVLCGLPAAGKSTFARALAHRLQQEQGWAIGVVAYDDVMPDAFLAGARAR
PAPSQWLLRQELLKYLEYFLMAVINGCQMSVPPNRTEAMWEDFITCLKDQDLIFSAAFEAQSCYLLTKT
AVSRPLFLVLDNFYYQSMRYEVYQLARKYSLGFCQLFLDCPLETCLQRNGQRPQALPPETIHLMRKLE
KPNPEKNAWEHNSLTIPSPACASEASLEVTDLLLTALENPVKYAEDNMEQKDTDRICSTNHLHKTDQTL
RRIVSQTMKEAKGNQAEFSEMTFKQRWVRANHAAIWRIILGNEHIKCRSAKVGWLQCCRIEKRPLSTG

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6619_d03.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_153336

ORF Size: 1044 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_153336.1](#), [NP_699167.1](#)

RefSeq Size: 1730 bp

RefSeq ORF: 1047 bp

Locus ID: 118672

UniProt ID: [Q8IV42](#)

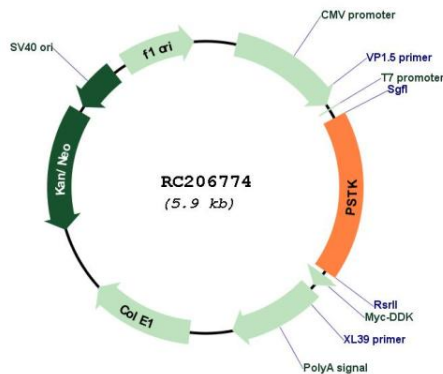
Cytogenetics: 10q26.13

Protein Pathways: Aminoacyl-tRNA biosynthesis

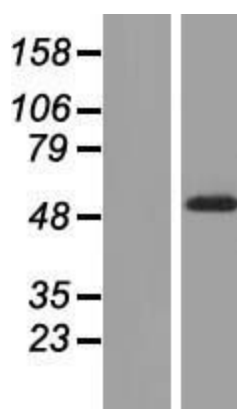
MW: 39.6 kDa

Gene Summary: Specifically phosphorylates seryl-tRNA(Sec) to O-phosphoseryl-tRNA(Sec), an activated intermediate for selenocysteine biosynthesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206774



Western blot validation of overexpression lysate (Cat# [LY407055]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206774 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).