

Product datasheet for **RC233808**

PLK5 (NM_001243079) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PLK5 (NM_001243079) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PLK5
Synonyms: PLK-5; PLK5P; SgK384ps
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233808 representing NM_001243079
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACACGGTGTGACTGGCACCCACCCCTTCATGGCCTCACCCCTGTCCGAGATGTACCAAAACATCC
 GTGAGGGCCACTACCCGAACCCGCTCACCTGTCTGCCAATGCGCGCCGCTCATCGTCACCTCCTAGC
 ACCCAACCCGGCCGAGCGGCCAGCCTGGACCACCTGCTGCAGGACGACTTCTTCACACAGGTTTCACT
 CCAGACCGGCTGCCGGCCACTCCTGCCACAGTCCCCCATCTTCGCCATACCCCGCCTCTGGGCAGGA
 TCTTCCGAAGGTGGCCAGCGCTGCTCACCCAGTCCCGCCACCTGCCCTTACGCCTAAAGAGGC
 CTGGGTCCAGGAGAAGGTGGCCAGACCTGACTCCATGGAGTGGGACGCGAGAGCTCCCTGTCTGCG
 AAAGAGTTCCCTGCCTGGAAGGCCCATCCACCTGGTCCACAAGGGACCTGCAGAGTGACCTGGCCG
 GGCCCGAGGGGAGCCGGCGGCCAGAGGTGGAGGCGGCCCTCAGACACCTGCAGCTGTGCCTGGATG
 TAGGCCCCGGCCACACAGGACCCCTGGGAGAGCAGCAGCCATCCTCTGGGCCCAATGGGTGGATTAT
 TCCAGCAAATACGGCTTTGGCTACCAGCTTTGGACGGGGGGCGCACGGGACGCCACCCACATGGCCCTG
 CGACCCCGGAGGGAGGGGACCCTCCCCACACCTGTGCCACCTGCTGGACCCGGCCTCTGCCTCCTGCG
 CTTCTGGCCTCTGAGCACGCCCTGCTGCTGCTGTTAGCAATGGGATGGTGCAGGTGAGCTTCAAGTGA
 GTCCCAGCCAACTGGTGTGAGTGGCGAGGGTGGGGTTTGCAGCTCACCCCTCTGGGAGCAGGGGTCCC
 CTGGCACCTCCTACTCCCTGGAGTCCCGCGGAGCCACGGCTGCCCCCAACCACCGGACAGCACCTTCA
 CCACGCCCTCCGCATGCTGCAGAGTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233808 representing NM_001243079
Red=Cloning site Green=Tags(s)

MYTVLTGTPPFMASPLSEMYQNIREGHYPEPAHLSANARRLIVHLLAPNPAERPSLDHLLQDDFFFTQGFT
 PDRLPAHSCHSPPIFAIPPLGRIFRKVGQRLLTQCRPPCFPTPKEASGPGEGGPDPSMEWDGESSLSA
 KEVPCLEGP IHLVAQGT LQSDLAGPEGSRRPEVEAALRHLQLCLDVGPATQDPLGEQQPILWAPKWVDY
 SSKYGFQYQLLDGGRTGRHPHPATPRREGTLTPVPPAGPGLCLLRFLASEHALLLLFSNGMVQVSFSG
 VPAQLVLSGEGEGLQLTLWEQSGPGTSYSLDVPRSHGCAPTGGQHLHHLRMLQSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001243079

ORF Size: 1008 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_001243079.2](#)

RefSeq Size: 1933 bp

RefSeq ORF: 1011 bp

Locus ID: 126520

UniProt ID: [Q496M5](#)

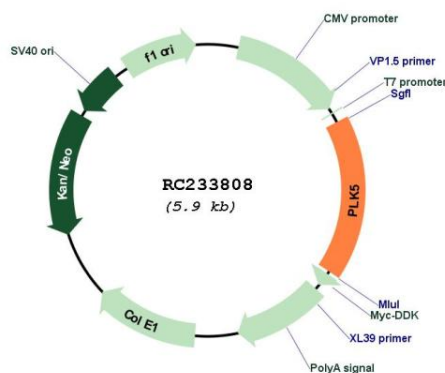
Cytogenetics: 19p13.3

Protein Families: Druggable Genome

MW: 36.8 kDa

Gene Summary: Inactive serine/threonine-protein kinase that plays a role in cell cycle progression and neuronal differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC233808