

Product datasheet for **RR214157**

Plk1 (NM_017100) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plk1 (NM_017100) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plk1
Synonyms:	Plk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR214157 representing NM_017100
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCAGCGCCAAAGCTGGAAGCTGGCTCGAGCACCAGCCGACCTCGGAAAGGTGGGGTCCGG
 GAGATGCAGTTCCCGGTGCCAGTGGCCGCCCGCTGGCGAAAGAAATTCGGAGGTCCTAGTGGACCC
 ACGCAGCCGCGCAGCAGTATGTACGGGGCCGCTTCTGGGTAAAGGAGGCTTCGCCAAATGCTTCGAAATC
 TCAGACTCAGACACAAAAGAGGTGTTCCAGGCAAGATCGTGCCTAAGTCTTTGCTGCTCAAGCCCCATC
 AGAAGGAGAAAATGTCTATGGAGACCTCCATTCACCGCAGCCTCGAACACCAGCACGTCGTAGGCTTCCA
 TGGCTTTTTGAGGACAGCGACTTTGTGTTCTGGTGGTGGAGCTCTGTCGAGGAGGTCTCTCTGGAG
 CTGCACAAAAGGAGGAAGGCGCTGACCGAGCCGAGGCCGATACTACCTGCGGCAGATAGTCTGGGT
 GCCAGTACCTGCACCGCAATCAAGTCATTCACAGGGACCTCAAAGTGGGCAACCTCTTTCTGAATGAGGA
 TCTGGAGGTGAAAATAGGGGATTTGGCCTGGCAAAAAGTGAATATGAAGGGGAACGGAAGAAGACC
 CTGTGTGGCACTCCTAACTACATAGTCCCGAGGTGCTGAGCAAGAAGGGACACAGCTTTGAGGTGGACG
 TGTGGTCCATTGGGTGCATCATGTATACCTTGCTGGTGGCAAGCCACCTTTTGAGACCTCATGCCTAAA
 AGAGACCTACCTCCGGATCAAGAAAAATGAATACAGTATCCCAAGCACATCAACCCAGTGGCTGCCTCC
 CTCATCCAGAAAATGCTTCAGACAGACCCCGCTGCGCGCCCCACCATTACAGAGTTGCTCAATGACGAGT
 TCTTCACTTCCGGATACATCCCCGCCGCTGCTGCTATTACCTGCCTCACCATCCCACCAAGGTTTTCAAT
 AGCTCCCAGCAGCCTAGACCCAGCAACAGGAAGCCTCTCACAGTCTTAATAAAGGTGTGGAGAACCC
 CTGCCTGACCGTCCCCGAGAGAAAAGAGGAACCAAGTGGTTCGGGAGACAAATGAGGCCATCGAGTCCACC
 TTAGTGACTTGTACAGCAGCTGACCAAGTGTCAACGCCTCAAGCCCTCAGAGCGAGGGCTGGTGGCGCA
 AGAGGAGCCGAGGATCCTGCTTGCATCCCTATCTTCTGGGTGAGCAAAATGGGTAGACTATTCGGACAAG
 TATGGCCTTGGTTATCAGCTATGTGACAACAGTGTGGGAGTGTCTTTAATGACTCAACACGCCTCATCC
 TCTACAATGACGGGGACAGCCTGCAGTACATAGAGCGTATGGCAGGAGTCTACCTCACTGTGAGCTC
 CCACCCAACTCCTTGATGAAGAAGTCACTCTCCTCAACTATTTCCGCAATTACATGAGTGAACACCTG
 CTGAAGGCGGGGCAACATCACGCCCCGGGAAGGCGACGAGCTGGCCCGGCTGCCCTACCTACGAACAT
 GGTTCGACACGACGCGCCATCATCTGCACCTCAGCAATGGCAGTACAGATTAATTTCTCCAGGA
 CCACACAACTTATCCGTGGCCCCCTGATGGCAGCAGTACCTACATCAACGAGAAGAGGGACTCCGG
 ACATACCGCCTGAGCCTTCTGGAGGAATATGGCTGCTGCAAGGAAGTGGTAGCCGCTCCGCTATGCC
 GCACCATGGTAGACAAGCTGCTGAGCTCGGTTCCGCCTGCAACCGCCTCAAGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214157 representing NM_017100
 Red=Cloning site Green=Tags(s)

MNAAAKAGKLARAPADLGKGGVPGDAVPGAPVAAPLAKEIPEVLVDPQRSQQYVVRGRLGKGGFAKCFEI
 SDSDTKEVFPGKIVPKSLLLKPHQKEKMSMETSIIHRSLEHQHVGFHGGFFEDSDFVVFVLELCRRRSLLE
 LHKRRKALTEPEARYYLRQIVLGCQYLHRNQVIHRDLKGNLFLNEDLEVKIGDFGLATKVEYEGERKKT
 LCGTPNYIAPEVLSKKGHSFEVDVWSIGCIMYLLVGKPPFETSCLKETYLRRIKKNEYSIPKHINPVAAS
 LIQKMLQTDPAARPTIHELLNDEFFTSYIIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGVENP
 LPDRPREKEEPPVRETNEAIECHLSDLLQQLTSVNASKPSERGLVRQEEAEDPACIPIFWVSKWVDYSDK
 YGLGYQLCDNSVGLFNDSTRLLIYNDGSLQYIERDGTESYLVSSHPNSLMKKITLLNYFRNYMSEHL
 LKAGANITPREGDELARLPYLRTWFRTRSAIILHLNNGTVQINFFQDHTKLIRGPLMAAVTYINEKRDFR
 TYRLLSLEEYGCCKELASRLRYARTMVDKLLSSRSACNRLKAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_017100

ORF Size: 1809 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

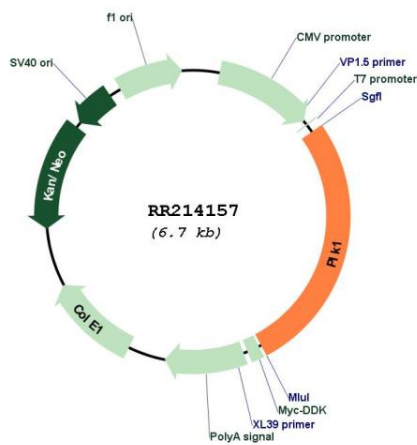
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_017100.1](#), [NP_058796.1](#)

RefSeq Size: 2198 bp
 RefSeq ORF: 1812 bp
 Locus ID: 25515
 UniProt ID: [Q62673](#)
 Cytogenetics: 1q36
 MW: 68.3 kDa

Gene Summary: human homolog catalyzes the phosphorylation of a Golgi reassembly stacking protein (GRASP65); may play a role in Golgi apparatus fragmentation and reorganization during mitosis [RGD, Feb 2006]

Product images:



Circular map for RR214157