

Product datasheet for **MC229135**

Plk4 (NM_173169) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plk4 (NM_173169) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plk4
Synonyms:	1700028H20; AI385771; S; Sak; Stk1; Stk18
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229135 representing NM_173169
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGTGCATCGGGGAGAGGATCGAGGACTTTAAGTTGGAATCTACTCGGTAAGGATCATTTG
 CTGGTGTCTACAGAGCTGAGTCCATACACACTGGTTTGAAGTTGCAATCAAATGATAGATAAGAAAGC
 CATGTACAAAGCTGGAATGGTACAGAGAGTCCAAATGAGGTGAAAATACATTGCCAGTTGAAACACCCC
 TCTGTCTTGGAGCTCTATAATTACTTTGAAGATAACAATTATGTCTACCTGGTATTGAAAATGTGCCACA
 ATGGAGAAATGAACAGATATCTGAAGAACAAGATGAAGCCTTTCTCAGAAAAGGGAAGCTAGGCACCTCAT
 GCACCAGATTATCACAGGAATGTTATATCTTCATTCTCATGGCATATTGCACCGGACCTCACACTCTCT
 AACATCTTACTTACGCGGAATATGAACATAAAAAATTGCTGACTTTGGACTAGCAACGCAGTTGAATATGC
 CACATGAAAAGCACTATACACTCTGTGGGACTCCTAATTATTTACCAGAAAATGCAACTCGAAGTGC
 ACATGGACTTGAATCTGATATTTGGTCATTGGGCTGTATGTTTTATACGTTACTTATTGGAAGACCCT
 TTTGACACTGACACAGTCAAGAACAATTGAACAAAGTAGTCCTGGCAGATTATGAAATGCCAGCCTTTT
 TGTACAGAGAGGCCAGGACCTTATCCACCAGTACTTCGTAGAAAACCTGCAGATCGGTTAAGTCTGTC
 TTCTGTGTTGGACCATCCTTTTCATGTCACGAAATCCTTCCACAAAGAGTAAAGACGTAGGGACTGTAGAG
 GACTCAATGGATAGTGGGCATGTACACTTTCCACAACAATTACAGCCTCTTCTGGTACCAGTTTGGAGT
 GCAGCCTACTTGACAGAAGACTTTTGGTTGGTCAACCCTTCAAATAAAATTACTGATTTTCAAAAAA
 TAAAAATCAAGTGACTTTTCTCAGGAGATGGAAGTAATTTTGTACTCAATGGGAAAATCCAGAACAA
 GAAGCTAATAGTAGGGGACGGGGAGAGTGAATGAAGATGCAGAAGAGAGGCCGATTCTCGATACCTGC
 GCAGAGCTATTCTCTGATAGAGCCAGCCCTTAATCAGTCTCGAGCAAAAACATACTCAGTAGAAGC
 TTGTCACTCAGTAGAAAATGCTTTCAAAGCCTAGAAGATCACTGGATGAAAATCAACACAGTTCCAATCAT
 CATTGTCTAGGAAAACTCCTTTTCCATTTGCAGACCAGACACCTCAGATGGAAAATGGTACAGCAGTGGT
 TTGGGAATCTGCAATGAATGCTCATTTAGGAGAAAATAATGAGCACACACCGTTAGCCAAAACAGAGA
 TTTCCAGGACTATCCAGATTTGCAGGACACGTTACGAAACGCTTGGACTGACACGAGAGCCAGCAAGAAT
 GCTGATACTTCTGCCAATGTTTCATGCTGTAAGCAGCTGAGTGCCATGAAATACATGAGTGCACATCACC
 ATAAGCCTGAGGTCATGCCACAGGAGCCGGCCTACATCCTCATTCTGAACAAAGCAAGAATAGAAGTAT
 GGAGTCGACACTGGGTTACCAGAAACCTACCTAAGAAGTATTACATCTCCTCTGATTGCTCACAGATTA
 AAGCCAATCAGACAGAAAACCAAAAAGGCTGTGGTGAGCATCCTTGATTCAGAGGAGATCACTGTTTATT
 ACCCGAACGATGGAAGAGGCTTTCTCTTGTGACAGACCTCCCTTGCTACTGACAACATCAGTAGGTA
 CAGCTTTGACAATCTACCAGAAAATACTGGCGGAAAATATCAGATGCTTCCAGATTCATTACAGCTAGTA
 AGATCTAAAACCTCCAAAATCACTTATTTTACAAGATATGCTAAATGATTTTGTAGGAAAATTTCTCCTG
 GTGCTGATTTTGAAGTTTGGTTTATGATGGAGCCAAAATACATAAAACTGAAAATTTAATTACATAAT
 TGAGAAAACAGGGATATCTTATAATTTAAAAATGAAAATGAAGTTACCAGCCTGAAAGAGGAAGTAAAA
 GTATATATGGACCATGCTAATGAGGGTCACCGTATTTGCTTGTCACTGGAATCTGTAATCTCTGAGGAGG
 AAAAGAGAAGCAGGGTTCTTCATTCTTCCCTAATCGTAGGAAGAAAACCTGGTAATACTAGTTACACC
 TAAAGCCTTATCAGCTCCTCCTGTGGACCAAGCTGCTGAAGGGAGAGCAGGCGTCAGCAAGCAGACTG
 AGCGTGAATAGTCCGCTTTCCACACAGTCCCAGGACTCAGTCCCTTCCACTGTGACAGTTGAAGGAC
 TTGGCCACACAGCGACTGCCACAGGAACAGGCGTCTTCAAGTCTTCTAAATCTGCACAGCTTTTGAA
 ATCTGTTTTTGTGAAAAATGTTGGTTGGGCTACACAGCTAACTAGCGGAGCTGTGTGGGTTCAAGTTAAT
 GATGGGTCACAGTTGGTTGTCCAGGCAGGAGTATCTTCCATCAGTTACACATCACCAGATGGTCAGACAA
 CTAGGTATGGAGAAAATGAAAATTAACCTGAATACATCAAACAGAAAATTACAGTGTCTTTCTCCATCCT
 TCTGATGTTTTCTAATCCAACCTCAATTTTCAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_173169

Insert Size:	2697 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_173169.2 , NP_775261.2
RefSeq Size:	3486 bp
RefSeq ORF:	2697 bp
Locus ID:	20873
UniProt ID:	Q64702
Cytogenetics:	3 B
Gene Summary:	<p>This gene encodes a member of the polo family of serine/threonine protein kinases. The protein localizes to the nucleolus during G2, to centrosomes during G2/M, and to the cleavage furrow during cytokinesis. It is required for progression through mitosis, cell survival, and embryonic development. The mouse genome contains a pseudogene similar to this gene. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 3' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. The transcription start site was identified in PMID:10607900.</p>