

Product datasheet for **SC115082**

PLK4 (NM_014264) Human Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PLK4 (NM_014264) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PLK4 |
| Synonyms: | MCCRP2; SAK; STK18 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_014264 edited
ATGGCGACCTGCATCGGGGAGAAGATCGAGGATTTTAAAGTTGGAAATCTGCTTGGTAAA
GGATCATTGCTGGTGTCTACAGAGCTGAGTCCATTACACTGGTTTGAAGTTGCAATC
AAAATGATAGATAAGAAAGCCATGTACAAAGCAGGAATGGTACAGAGAGTCCAAAATGAG
GTGAAAATACATTGCCAATTGAAACATCCTTCTATCTTGGAGCTTTATAACTATTTTGAA
GATAGCAATTATGTGTATCTGGTATTAGAAATGTCCATAATGGAGAAATGAACAGGTAT
CTAAAGAAATAGAGTGAACCCCTTCTCAGAAAATGAAGCTCGACACTTCATGCACCAGATC
ATCACAGGGATGTTGTATCTTCTCATGGTATACTACACCGGGACCTCACACTTTCT
AACCTCCTACTGACTCGTAATATGAACATCAAGATTGCTGATTTTGGGCTGGCAACTCAA
CTGAAAATGCCACATGAAAAGCACTATACATTATGTGGAACCTCTAACTACATTTACCA
GAAATTGCCACTCGAAGTGCACATGGCCTTGAATCTGATGTTTGGTCCCTGGGCTGTATG
TTTTATACATTACTTATCGGGAGACCACCTTCGACACTGACACAGTCAAGAACACATTA
AATAAAGTAGTATTGGCAGATTATGAAATGCCATCTTTTTTGTCAATAGAGGCCAAGGAC
CTTATTCACCAGTACTTCGTAGAAAATCCAGCAGATCGTTTAAAGTCTGTCTTCAGTATTG
GACCATCCTTTTATGTCCCGAAATCTTCAACAAAAAGTAAAGATTTAGGAACTGTGGAA
GACTCAATTGATAGTGGGCATGCCACAATTTCTACTGCAATTACAGCTTCTTCCAGTACC
AGTATAAGTGGTAGTTTATTTGACAAAAGAAGACTTTTGATTGGTCAGCCACTCCAAAAT
AAAATGACTGTATTTCCAAAAGATAAAAGTTCAACTGATTTTTCTTCTCAGGAGATGGA
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AGATCTGGCACTTCTAATAGTCAGTCTCAAGCAAAAACATATACAATGGAACGATGTCAC
TCAGCAGAAAATGCTTTCAGTGTCCAAAAGATCAGGAGGAGGTGAAAATGAAGAGAGGTAC
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TCTGGATCTTTTGAAGACCTGATAACAATCAAGCACTCTCCAATCATCTTTGTCCAGGA
AAAACCTCTTTTCCATTTGCAGACCCGACCTCAGACTGAAACCGTACAACAGTGGTTT
GGGAATCTGCAAAATAATGCTCATTTAAGAAAACTACTGAATATGACAGCATCAGCCCA
AACCGGGACTTCCAGGGCCATCCAGATTTGCAGAAGGACACATCAAAAAATGCCTGGACT
GATACAAAAGTCAAAAAGAACTCTGATGCTTCTGATAATGCACATTCTGTAAAACAGCAA
AATACCATGAAATATATGACTGCACTTCACAGTAAACCTGAGATAATCCAACAAGATGT
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GGTTATCAGAATCGTACATTAAGAAGCATTACATCTCCGTTGGTTGCTCACAGGTAAAA
CCAATCAGACAGAAAACCAAAAAGGCTGTGGTGAGCATACTTGATTTCAGAGGAGGTGTGT
GTGGAGCTTGTAAGGAGTATGCATCTCAAGAATATGTGAAAGAAGTTCTTCAGATATCT
AGTGATGGAAATACGATCACTATTTATTATCCAAATGGTGGTAGAGGTTTTCTCTTGCT
GATAGACCACCCTCACCTACTGACAACATCAGTAGGTACAGCTTTTGACAAATTTACCAGAA
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GCTGATTTTGAGGTTTGGTTTTATGATGGGGTAAAAATACACAAAACAGAAGATTTTATT
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TTGAAAGAGGAGATAAAAATGTATATGGACCATGCTAATGAGGGTCATCGTATTTGTTTA
GCACTGGAATCCATAATTTCAGAAGAGGAAAGGAAAACCTAGGAGTGTCCCTTTTTCCCA
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TCTGTGGATTCAAATTACCCAACGAGAGAGAGAGCATCTTTCAACAGAATGGTATGCAT
AGTGCTGCTTCTCCAACACAGGCACCAATCCTTAATCCCTCTATGGTTACAAATGAAGGA
CTTGGTCTTACAACACTACAGCTTCTGGAACAGACATCTCTTAATAGTCTAAAAGATTGT
CTTCTAAATCAGCACAACCTTTGAAATCTGTTTTTGTGAAAAATGTTGGTTGGGCTACA
CAGTTAACTAGTGGAGCTGTGTGGGTTCAAGTTTAAATGATGGGTCCAGTTGGTTGTGCAG
GCAGGAGTGTCTTCTATCAGTTATACCTCACCAATGGTCAAACAACCTAGGTATGGAGAA
AATGAAAAATTACCAGACTACATCAAAACAGAAATTACAGTGTCTGTCTTCCATCCTTTTG
ATGTTTTCTAATCCGACTCCTAATTTTCATTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014264 unedited
 TTTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGNAGATTTTCAAAT
 GGGAGCCCAGAGGCACCGCCAGGCCTCGGAAGGTGTCAGGGAGAAGCTTTCCGTGGTTTC
 AGCGTCGTCGCCTGGAGCGGCGGTTTAGAGAGCCGAGCCTGATGGGCGCCAAGGCCGGCT
 GGCTGCTTGGAGCGCTGCCTCGAAGGGACTGCGTGAAGGAAGCTAATCCGGAGAACCAG
 GCCAGAGCCTGGAATATGGCGACCTGCATCGGGGAGAAGATCGAGGATTTTAAAGTTGG
 AAATCTGCTTGGTAAAGGATCATTGCTGGTGTCTACAGAGCTGAGTCCATTCACACTGG
 TTTGGAAGTTGCAATCAAATGATAGATAAGAAAGCCATGTACAAAGCAGGAATGGTACA
 GAGAGTCCAAAATGAGGTGAAAATACATTGCCAATTGAAACATCCTTCTATCTTGGAGCT
 TTATAACTATTTTGAAGATAGCAATTATGTGTATCTGGTATTAGAAATGTGCCATAATGG
 AGAAATGAACAGGTATCTAAAGAATAGAGTGAAACCCCTTCTCAGAAAATGAAGCTCGACA
 CTTTCATGCACCAGATCATCACAGGGATGTTGTATCTTCATTCTCATGGTATACTACACCG
 GGACCTCACACTTTCTAACCTCCTACTGACTCGTAATATGAACATCAAGATTGCTGATTT
 TGGGCTNNGCACTCAACTGAAAATGCCACATGANAAGCACTATACATTATGTGAACTCC
 TAACTACATTTACCAGAAATTGCCACTCGAAGTGCACATGGCCTTNNGATCTGATGTTG
 GTCCTGGGCTGTATGNTNTATACACTTATCGGGGAGAACCACCTTCGCACTNGACAC
 AGTCAGAACACATAAATANAGTAGTATGGGCAGTTNATGAATGCCATCTTTTNTGTCATA
 GAGGCCAGGNACTTATTCACAGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014264 unedited
 CTTGGCCGCGGCCGAATCTAGAGNCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTGGAACTTAAACTATTTTTATTTTTTATAAAAAGCATTTCGAAAAATGGT
 TCATCAAACACTGGGTTACAAAATAAATATAAAACAAATATACCTGGTTACATATGGT
 ACTTATAACATAAATACCCATTATTTACATTTTCAAAAATTCGAAATTCAGCAGGTTT
 TGGCCATGATTCTCAACATGTCTGAAACCCCGGAAAAACAATAAAAGCCCAATAAACTA
 CCCATCATTTACATTTTGTCTTTAAAAAATGGTCAATACAAATATATGAACATAGTAA
 GTTCGGGGGTTATGGGCTAAAAACAAAGTCAGGGGGTCTATTTTATCCACTATATTTA
 ATAAGGGACTCAAGGTTCACTTCTGCTTTGGTCTCTCAAATACATCCTTTACATTATAGG
 GTAAAATCTTTTCATAAAAAGGGTTTCTGAAAACCTTATGTAAATTAATAAAAAATCACT
 TTACTTGAAGGCAACAAAAAGGTATTTATTAACCTTATGTCTGAAAGGAGTTTAA
 TCAATGAAAATAGGAGTCGGATTAAAAACATCAAAGGGTGGAAAGACAGACACTGGAA
 TTTCTGTTTGAAGGAACCTGGGAATTTTCAATTTCTCCATACCTAATTGGTTGACCAT
 TTGNGAGGGATAACTGATAGAAGACACTTCTGGCTGCACAACCACTGGGACCCATCAT
 TAACTGGACCCACCAGCTTCCCTAGTTAACTGTGTAGCCCAACCACATTTTTCAAAAA
 CACGATTCAAAAGTTGGGCTGGATTAAGAAGACATTCTTTAGACATTAAGAGAGTCTG
 TCCCAAAGCTGATTTGAAAACCAAGTCTCCATTGAAACATAAAGGATAAAGATAGGGCC
 TGGTTGAGAAACAACT

Restriction Sites:

NotI-NotI

ACCN:

NM_014264

Insert Size:

3970 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).

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).

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|-------------------------------|---|
| 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_014264.2 , NP_055079.2 |
| RefSeq Size: | 3331 bp |
| RefSeq ORF: | 2913 bp |
| Locus ID: | 10733 |
| UniProt ID: | O00444 |
| Cytogenetics: | 4q28.1 |
| Domains: | pkinase, TyrKc, S_TKc |
| Protein Families: | Druggable Genome, Protein Kinase |
| Gene Summary: | <p>This gene encodes a member of the polo family of serine/threonine protein kinases. The protein localizes to centrioles, complex microtubule-based structures found in centrosomes, and regulates centriole duplication during the cell cycle. Three alternatively spliced transcript variants that encode different protein isoforms have been found for this gene. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).</p> |