

Product datasheet for **SC114791**

CDC42 binding protein kinase alpha (CDC42BPA) (NM_014826) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42 binding protein kinase alpha (CDC42BPA) (NM_014826) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42 binding protein kinase alpha
Synonyms:	MRCK; MRCKA; PK428
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_014826 edited
 CAGCAAGATTTAGAAATAAAAACTTAAAAGAAGAAATTGAAAACTAAGAAAAAGTA
 ACAGAATCAAGTCATTTGGAACAGCAACTTGAAGAAGCTAATGCTGTGAGGCAAGAACTA
 GATGATGCTTTTAGACAAATCAAGGCTTATGAAAAACAAATCAAAACGTTACAACAGAA
 AGAGAAGATCTAAATAAGCTGGAAGTTCATACAGAAGCTCTAGCTGCTGAAGCATCTAAA
 GACAGGAAGCTACGTGAACAGAGTGAGCACTATTCTAAGCAACTGGAAAATGAATTGGAG
 GGACTGAAGCAAAAAACAAATTAGTTACTCACCAGGAGTATGCAGCATAGAACATCAGCAA
 GAGATAACCAAATAAGACTGATTTGGAAAAGAAAAGTATCTTTTATGAAGAAGAATTA
 TCTAAAAGAGAAGGAATACATGCAAAATGAAATAAAAAATCTTAAGAAAGAACTGCATGAT
 TCAGAAGGTCAGCAACTTGCTCTCAACAAAGAAATATGATTTTTAAAAGACAAATGGAA
 AAAACCAGAAGAGAAAGTCAAAGTGAAAGGGAGGAATTTGAAAGTGAGTCAAACAACAA
 TATGAACGAGAAAAAGTGTGTTAACTGAAGAAAATAAAAAGCTGACGAGTGAACCTGAT
 AAGCTTACTACTTTGTATGAGAAGTAAAGTATACACAACCAAGCAGTTAGAAGAAGAGGTT
 AAAGATCTAGCAGACAAGAAAGAATCAGTTGCACATTGGGAAGCCCAATCACAGAAATA
 ATTCAGTGGGTCAGCGATGAAAAGGATGCACGAGGGTATCTTCAGGCCTTAGCTTCTAAA
 ATGACTGAAGAATTGGAGGCATTAAGAAATCCAGCTTGGGTACACGAGCAACAGATATG
 CCCTGGAAAATGCGTCGTTTTGCGAAACTGGATATGTCAGCTAGACTGGAGTTGCAGTCG
 GCTCTGGATGCAGAAATAAGAGCCAAACAGGCCATCCAAGAAGAGTTGAATAAAGTTAAA
 GCATCTAATATCATAACAGAATGTAACATAAAAGATTTCAGAGAAGAAGAACTTGGAACTA
 CTCTCAGAAATCGAACAGCTGATAAAGGACACTGAAGAGCTTAGATCTGAAAAGGGTATA
 GAGCACCAAGACTCACAGCATTCTTTCTTGGCATTGTTTGAATACGCCCTACCGATGCTCTG
 GATCAATTTGAACTGATCCCGTTGAGAACACATATGTATGGAACCCGAGCGTCAAGTTT
 CACATCCAGTCACGGTCCACATCTCCTTCCACATCTAGTGAAGCTGAGCCAGTTAAGACT
 GTAGACTCCACTCCACTTTCAGTTCACACACCAACCTTAAGGAAAAAAGGATGTCCTGGT
 TCAACTGGCTTTCCACCTAAGCGCAAGACTCACCAGTTTTTTGTAATACTTTTACTACT
 CCTACCAAGTGCATCAGTGTACCTCCTTGATGGTGGGTTAATAAGACAGGGCTGTTCA
 TGTGAAGTGTGGATTCTCATGCCATATAACTTGTGTAACAAAGCTCAACCACTTGT



[View online »](#)

CCAGTTCCTCCTGAACAGACAAAAGGTCCCCTGGGTATAGATCCTCAGAAAGGAATAGGA
 ACAGCATATGAAGGTCATGTGAGGATTCCTAAGCCAGCTGGAGTGAAGAAAGGGTGGCAG
 AGAGCACTGGCTATAGTGTGTGACTTCAAACCTTTCTGTACGATATTGCTGAAGGAAAA
 GCATCTCAGCCCAGTGTGTGCTTAGTCAAGTGATTGACATGAGGGATGAAGAATTTTCT
 GTGAGTTCAGTCTGGCTTCTGATGTTATCCATGCAAGTCGAAAAGATATACCCTGTATA
 TTTAGGGTACAGCTTCCCAGCTCTCAGCATCTAATAACAAATGTTCAATCCTGATGCTA
 GCAGACACTGAGAATGAGAAGAATAAGTGGTGGGAGTGTGAGTGAATTGCACAAGATT
 TTGAAGAAAAACAAATTCAGAGACCGCTCAGTCTATGTTCCCAAAGAGGCTTATGACAGC
 ACTCTACCCCTCATTAAAAACAACCAGGCAGCCGAATCATAGATCATGAAAGAATTGCT
 TTGGGAAACGAAGAAGGGTTATTTGTTGTACATGTCACCAAAGATGAAATTATTAGAGTT
 GGTGACAATAAGAAGATTCATCAGATTGAACTCATTCCAAATGATCAGCTTGTGCTGTG
 ATCTCAGGACGAAATCGTCATGTACGACTTTTTCTATGTCAGCATTGGATGGGCGAGAG
 ACCGATTTTTACAAGCTGTCAGAACTAAAGGGTGTCAAACCATAAATTCTGGAAAGGTG
 CGCCATGGAGCTCTCACATGCCTGTGTGGCTATGAAAAGGCAGGTCCTCTGTTATGAA
 CTATTTACAGGCAAGACCGTCCAGAAAAATTTAAGGAAATTCAGTCCCATATAATGTC
 CAGTGGATGGCAATCTTCAGTGAACAACCTGTGTGGGATTCCAGTCAGGATTTCTAAGA
 TACCCCTTGAATGGAGAAGGAAATCCATACAGTATGCTCCATTCAAATGACCATACTA
 TCATTTATTGCACATCAACCAATGGATGCTATCTGCGCAGTTGAGATCTCCAGTAAAGAA
 TATCTGCTGTGTTTTAACAGCATTGGGATATACACTGACTGCCAGGGCCGAAGATCTAGA
 CAACAGGAATTGATGTGGCCAGCAAATCCTTCTCTTGTGTTACAATGCACCATATCTC
 TCGGTGTACAGTAAAAATGCAGTTGATATCTTTGATGTGAACTCCATGGAATGGATTGAG
 ACTCTTCTCTCAAAAAGGTTCCGACCCCTAAACAATGAAGGATCATTAAATCTTTTAGGG
 TTGGAGACCATTAGATTAATATATTTCAAAAATAAGATGCCAGAAGGGGACGAACCTGGT
 GTACCTGAAACATCAGATAAATAGTCGGAACAAATGGTTAGAAACATTAACAATAAGCGG
 CGTTATTCCTTCAGAGTCCCAGAAGAGGAAAGGATGCAGCAGAGGAGGGAAATGCTACGA
 GATCCAGAAATGAGAAATAAATTAATTTCTAATCCAATAATTTAATCATATAGCACAC
 ATGGGTCTGGAGATGGAATACAGATCCTGAAAGATCTGCCCATGAACCCCTCGCCTCAG
 GAAAGTCGGACAGTATTCAGTGGCTCAGTCAGTATTCATCTATCACCAAATCCCGCCCT
 GAGCCAGGCCGCTCCATGAGTGTAGCAGTGGCTGTGTCAGCAAGGTCATCCGCACAGAAT
 GGCAGCGCATTAAAGAGGGAATTTCTGGAGGAAGCTACAGTGCCAAGCGGCAGCCCATG
 CCCTCCCGTCCAGAGGGCTCTTTGCTCCTCCGGAGGCATGGACCAAGGAAGTATGCCCCA
 GCGAGGGACTTTGACGGAGAGGACTCTGACTCTCCGAGGCATTCCACAGCTTCCAACAGT
 TCCAACCTAAGCAGCCCCCAAGCCAGTTTACCCCCGAAAAACCAAGAGCCTCTCCCTG
 GAGAGCACTGACC CGGGAGCTGGGACCCGTGAGCTGCCTTAGCACTGGGACCTCTCGCT
 CTCCGCTCCCTGCCACTCGCCTCCTCTCACTTTTCTCTTCCCTCCACCTCGCCTGCTC
 GGCCTGAAAGCCACCAGGGGCTGGCAGCAGTAGCAGGACAGGGATTGAGGAGTTCTGACG
 ACAGCACTCTCAGATCCACGCCCCAGCCTAACAGCAACAACAAGACAGACTTTCCGTA
 GCAGCTTAGATTAACGTTGATTTTCAATCCATGCACTTAGAGTTGCTTTTCAGTAACATTTT
 ACCCTACTCCCAAAGGTAGCTTAAATAGACAGATTACACAATGTAAGTGATAAGAATA
 AGATTAGACAGATTTTGTCTTTCACAGTAGAGTCTCATTATAGTCCTAAAAATAGCTCATGG
 GCTTCTCCGCATCCAGAAGGGAGAATTGGTCCCTGGAGTGGCTCACTAAGCTCTTAATCA
 GCAAACGCAGTGAGTATCAACCTGATTGTTGCCAGGAAATCCTTATGAATAAAAACAATG
 CATATTTTACTACAGTACAGAGTTTAAATGAATACATAAATGTAGAAGTACTGAATGTAT
 ATATTTAAAAGGAGCCTCTTGATTTCAACAAAAGATGGATGCATATATAAGAGAGATGAT
 TTAATTTAAAAAATAAAAAAAAAAAAAAAAAAATCGAC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014826 unedited</p> <pre> NNGGTCANAATTTGTATACGACTCCTATAGGCCGGCCGCAATTCGGCACGAGGGAAAAT GAAGAGTTTTTACCAGGAATCCGTTGAAAAATAGACTGACTGCAAAGCCTTAAAGAAAGAAG GACCTCGGGAGGAGAAACGAAAAGCCGCTCCGGGCAAGACTTGGCGTGTCCGAGCCGA GGGGCTGCTTCAGGGACCTCGCCCCCTCCCTTCTCTGCTGGAGAAATTGCCGCTGATGCA TTATCCAAGTGGTGGTTGGGAGGATTTGCAGCAACATTTTTGGTTTTCCCTCCCCTTCT ATGCATTCGTTTTTTCTCCCTTTTCTGTTTTTCTTCTTCCCGGGAAGTGAATTGCTG ATGCAAATCGGACTTTATTCATTAATGATGCAACCGGATTGCATCAGGATTACGTTGCAC GAGTTGAATTTGAATGAAGGAGAAGAGTTTTTTTTTTTTTAAAGAGTGTGACTCTCT AGTTCGTGTACTTTAATTATTATTTTAAATATACGACTTAATTGTATTCTTTTA AAAATGCATTAAGTATATATTTTATGGTAATTTACCTCAAATATATGTATATGGGTGA AATTGAAGACGCTTCAGTTAAGTGAGGTTACTGGTGTGTGGATGTTAATTCAGCACCA GCATTGCATGACAGTTGTTTGAATAACAAGTGGTTTATTTTTAAACCATACCTTTTAA ATTTAGGTTTCAGATAATAGTAAAAGTCATCATAATAATTTAAAGGANAACCAGCAGAAAT CGAAGCANACATGTCTGGAGAAGTGCCTTTGAGGCAGTTGGAGCAGTTTATTTGGACGG GCCCGCTCAGACCAATGGGCAGTCTTCAAGTGTGGAGACTTACTGGATATACTCATCTGC CTTTATGATGA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014826 unedited</p> <pre> NNAATTCAGCTTGNACCGCGCCGATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTT TAAATTAATCATCTCTTATATATGATCCATCTTTTGTGAATACAAGAGGCTCCTT TAAATATATACATTCAGTACTTCTACATTTATGTATTCAATTTAACTCTGTACTGTAGT AAAATATGCATTGTTTTAATTCATAAGGATTTCTGGCAACAATCAGGTTGATACTCACT GCGTTTGTCTGATTAAGAGCTTAGTGAGCCACTCCAGGGACCAATTCTCCCTTCTGGATGC GGAGAAGCCCATGAGCTATTTTAGGACTATAATGAGACTCTACTGTGAAAGCAAAATCTG TCTAATCTTATTTTACTTACATTTGTGTAATCTGTCTATTTAAGCTACCTTTGGGA GTAGGGGTAAAAAGTTACTGAAAGCAACTCTAAGTGCATGGAATGAAATCAACGTTAATC TAAGCTGCTACGAAAGTCTGTCTTTGTTGTTGCTGTTAGGCTGGGGGCGTGGATCTGAG AGTCGTGTCGTCAGAACTCCTGAATCCCTGTCCTGCTACTGCTGCCAGCCCTGGTGGCT TTCAGGCCGAGCAGGCGAGGTGGAGGGAAGAGATGAAAGTGAGAGGAGGCGAGTGGCAGG GAGCGGAGAGCGAGAGGTCCCAGTGCTAAGGCAGCTCACGGGTCCCAGCTCCCGCGGTCA GTGCTCTCCAGGGAGAGGCTCTTGGTTTTTTCGGGGTAAACTGGGCTTTGGGGGCTGCTT AAGTTGGAAGTGTGGAAGCTGTGGAATGCCTGGGAGAATAAAAGTCTCTCCGTCAGT CCCTCGCTTGGGCATCATTCTGGACCCATGCTCCGAAGAAAAAG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014826
Insert Size:	6200 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).

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_014826.3 , NP_055641.3
RefSeq Size:	7776 bp
RefSeq ORF:	4917 bp
Locus ID:	8476
UniProt ID:	Q5VT25
Cytogenetics:	1q42.13
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase contains multiple functional domains. Its kinase domain is highly similar to that of the myotonic dystrophy protein kinase (DMPK). This kinase also contains a Rac interactive binding (CRIB) domain, and has been shown to bind CDC42. It may function as a CDC42 downstream effector mediating CDC42 induced peripheral actin formation, and promoting cytoskeletal reorganization. Multiple alternatively spliced transcript variants have been described. [provided by RefSeq, Sep 2018]</p> <p>Transcript Variant: This variant (A) lacks a coding segment compared to variant B, resulting in an isoform (A) that lacks an internal region, as compared to isoform B.</p>