

Product datasheet for **SC107086**

Protein kinase like protein SgK493 (PKDCC) (NM_138370) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protein kinase like protein SgK493 (PKDCC) (NM_138370) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protein kinase like protein SgK493
Synonyms:	RLSDF; SGK493; Vlk
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_138370 edited
 CGCCTGCCCGGCGGCCGCGGTGGCGCTCAAGGCGGTGGACTTTAGCGGCCACGATCTG
 GGCAGTGCCTGCGCGAGTTCCGGGTACGGAGGGGCTGCTATCGGCTGGCGGCCACAAG
 CTGCTTAAGGAGATGGTGTCTGCTGGAGCGGCTGCGGCACCCCAACGTGCTGCAGCTCTAT
 GGCTACTGCTACCAGGACAGCGAGGACATCCCAGACACCCTGACCACCATCACGGAGCTG
 GGCGCCCTGTAGAAATGATCCAGCTGCTGCAAACCTTCTGGGAGGATCGATTCCGAATC
 TGCTGAGCCTGGGCGCCTCCTCCACCACCTGGCCCACTCCCCACTGGGCTCCGTCAC
 CTGCTGGACTTCCGCCCTCGGCAGTTTGTGCTGGTGGATGGGGAGCTCAAAGTGACGGAC
 CTGGATGACGCACGTGTGGAGGAGACGCCGTGTGCAGGCAGCACCGACTGCATACTCGAG
 TTTCCGGCCAGGAACCTCACCTGCCCTGCTCAGCCAGGGCTGGTGCAGGGCATGAAC
 GAGAAGCGGAACCTCTATAATGCCTACAGGTTTTTCTTACATACCTCTGCCTCACAGT
 GCCCCGCCTTCACTGCGTCTCTGCTGGACAGCATCGTCAACGCCACAGGAGAGCTCGCC
 TGGGGGTGGACGAGACCCTGGCCAGCTGGAGAAGGTGCTGCACCTGTACCGGAGCGGG
 CAGTATCTGCAGAACTCCACGGCAAGCAGCAGTACCGAGTACCAGTGTATCCCAGACAGC
 ACCATCCCCAGGAAGACTACCGTGTCTGGCCATCCTACCACCAGGGAGCTGCCTCCTT
 TCAGTGTCAACCTGGCTGAGGCTGTGGATGTCTGTGAGAGCCATGCCAGTGTCCGGCC
 TTTGTGGTCAACAACAGACCACCTGGACAGGTCCGCAGCTGGTCTTTTTCAAGACTGGA
 TGGAGCCAAGTGGTCCCTGATCCCAACAAGACCACATATGTGAAGGCCTCTGGCTGACCT
 ATCTGAGGGCTCGGCTGACCAGCTGACTATCCTCAGCAGCTGGGCTTGCCTGCGGAGGGA
 GTGACTTGCACTGGCAGCACTGCATGTCACCTGGGAACCTGCAGACAAAGCTAACATCC
 CAGACAGACAGATGTGACCAGGACAAACGTGCAATAATGCCAAATGTTAAATGTGAGTT
 TACCACCTAGCTATGGGACTGCTGGCTCCTAGTCCAGGAATCATGGGGTATGACTGCC
 TCTCCAACCTGTGGGCTGTAAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCC
 CTCCTGGGACGGTCCGTGGGCAGCCCATCACTGTGTTCAATAGTGTGAGAATGTAGC
 TAAAGCCCTGCTGCTGCTGCTGCACATGCCACAGCAGCGGTGGGGGCTGCGTGGGGAC
 AATCCATCGTGGAGTGTCTCTCAGCTTAGGTCTGGACAGGAGACTTGGCGGGGATGCT
 CCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTATCTCTGACCTCCCGACAGGGGACAC
 TCCCAGGCCAGCCAGGGGTGAGGGCAGAGGTGCACACCTCAGCATGAGCCAAGACTGG
 GGTGAGGAGCAGGTGTGGTTTGGCCAGGACCTGGGGCGGGGTGGGGCCGGGCTTT
 CTGCCTCATTGCTTTCAATGAAAGCCTCAAAGCAGCCAAAACCAGGCTTTCCCTTCC
 TCGAGTTTGAATATCCAGAATCTTTTGTACTTCTTGTGGTTAAATTGTTATTTTTGTA
 AAAATAAAATAAAATTAGTTAATAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_138370 unedited
 TATAGGCACGTGTNCCGGGCTCCGCCTGCCCGGCGGCCGCGGTGGCGCTCAAGCGGTG
 GACTTTAGCGGCCACGATCTGGGAGCTGCGTGCAGGAGTTCCGGGTACGGAGGGGCTGC
 TATCGGCTGGCGGCCACAAGCTGCTTAAGGAGATGGTGTCTGGAGCGGCTGCGGCAC
 CCCAACGTGCTGCAGCTCTATGGCTACTGCTACCAGGACAGCGAGGACATCCCAGACACC
 CTGACCACCATCACGGAGCTGGGCGCCCTGTAGAAATGATCCAGCTGCTGCAAACCTTCC
 TGGGAGGATCGATTCCGAATCTGCCTGAGCCTGGGCCGCCTCCTCCACCCTGGCCAC
 TCCCCACTGGGCTCCGTCACCTGCTGACTTCCGCCCTCGGCAGTTTGTGCTGGTGGAT
 GGGGAGCTCAAAGTGACGGACCTGGATGACGCACGTGTGGAGGAGACGCCGTGTGCAGGC
 AGCACCGACTGCATACTCGAGTTTCCGGCCAGAACTTACCCTGCCCTGCTCAGCCAG
 GGCTGGTGCAGGGCATGAACGAGAAGCGGAACCTCTATAATGCCTACAGTTTTTCTT
 ACATACCTCCTGCCTCACAGTGCCTCCCTTCACTGCGTCTCTGCTGGACAGCATCGTC
 AACGCCACAGGAGAGCTCGCCTGGGGGTGGACGAGACCCTGGCCAGCTGGAGAAGGTG
 CTGCACCTGTACCGGAGCGGGCAGTATCTGCAGAACTCCACGGCAAGCAACAGTACCGAG
 TACCAGTGTATCCCAGACAGCCATCCCCAAGAAGACTACCGTGGCTGGCCATCCTA
 CCAACACGGGAAGCTGCCTCCTTTCAGTGTTCACCTGGCTGAGGCTGTGGATGTCTGTA
 AAAACCATGCCCCGTGTCGGGCCCTTTGTGGTACCACCAAAACCCCTGACAGGTCCGCA
 GTG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_138370 unedited AATACTGTGNACCGCGGCCCGCTTTCTAGGATCGGTTTTTTTTTTTTTTTTTTTATTAAC TAATTTTATTTTATTTTACAAAAATAACAATTTAACCAACAAGAAGTACAAAAGATT CTGGATATTCAAACCGAGGAAGGGGAAAGCCTGGTTTTGGCTGCTTTGAGGCTTTCAT TGAAAGCAAATGAGGCAGAAAGGCCCGGCCACCCCGCCAGGCTCTGGCTCAAAC CACACCTGCTCCCTGACCCAGTCTTGGCTCATGCTGAGGTGTGCACCTCGCCCTGAC CCCTGGGCTGGCTGGGAGTGTCCCTGTCTGGGAGGTGAGAGATAGCCTCCCAAGTACA GAATCACCCACATCCTGGAGCATCCCCGCCAAGTCTCCTGTCCAGACCTAAGCTGAGAG AACACTCCACGATGGATTGTCCCCACGCAGCCCCACCGCTGCTGTGGCATGTGCAGCA GCAGCAGCAGGGGCTTTAGCTACATTCTCACACTATTGAACACAGTGATGGGGCTGCCCA CGGAACCGTCCCAGGGAGGGGCACAGCCCCAGTGGGAGACTAGCCTGAGCTTGCTTAC AGCCACAGGGTTGGAGAGGCAGTCATACCCCATGATTCTGGACTAGGAGCCAGCAGT CCCATAGCTAGGCTGGTAAACTCACATTTAACATTTGGCATTATTGCACGTTTGTCTG GTCACATCTGTCTGTCTGGGATTTAGCTTTGTCTGCANGGGTCCAGGTGACATGCAG TGCTGCCAGTGAAGTCACTCCCTCCGAGGCAAGCCAGCTGCTGAGGATAGTCAGCTG GTCAGCCGAGCCCTCAGAAGGTACGCCAGAGGCCCTTCCATATGTGGTCTGTTGGGGAT CAGGGACCACTTGGCTCCTTCCATCTTGA AAAAGACAGCTGCCGACCTGTCCAGTGGTCC TG
Restriction Sites:	NotI-NotI
ACCN:	NM_138370
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_138370.1 , NP_612379.1
RefSeq Size:	2517 bp
RefSeq ORF:	885 bp
Locus ID:	91461
UniProt ID:	Q504Y2
Cytogenetics:	2p21
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary:

Secreted tyrosine-protein kinase that mediates phosphorylation of extracellular proteins and endogenous proteins in the secretory pathway, which is essential for patterning at organogenesis stages. Mediates phosphorylation of MMP1, MMP13, MMP14, MMP19 and ERP29 (PubMed:25171405). Probably plays a role in platelets: rapidly and quantitatively secreted from platelets in response to stimulation of platelet degranulation (PubMed:25171405). May also have serine/threonine protein kinase activity. Required for longitudinal bone growth through regulation of chondrocyte differentiation. May be indirectly involved in protein transport from the Golgi apparatus to the plasma membrane (By similarity).[UniProtKB/Swiss-Prot Function]