

## Product datasheet for **SC127846**

### PDZK1 (NM\_002614) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PDZK1 (NM_002614) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDZK1
Synonyms:	CAP70; CLAMP; NHERF-3; NHERF3; PDZD1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC127846 sequence for NM\_002614 edited (data generated by NextGen Sequencing)

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ATGACCTCCACCTTCAACCCCGAGAATGTAACTGTCCAAGCAAGAAGGGCAAACCTAT
GGCTTCTTCTCGGAATTGAGAAGGACACCGAGGGCCACCTGGTCCGGGTGGTTGAGAAG
TGAGCCCAGCAGAGAAGGCTGGCCTTCAAGATGGAGACAGAGTTCTTAGGATCAATGGT
GTCTTTGTGGACAAAGAAGAACATATGCAGGTTGTGGATCTGGTCAGAAAGAGTGGGAAT
TCAGTGACTTTACTAGTTCTGGATGGGGATTCTATGAGAAAGCAGTGAAAACACGGGTG
GACTTGAAAAGAGTTGGGTCAAAGTCAGAAGGAGCAAGGTTTGAGTGATAATATACTTTCC
CCTGTGATGAATGGAGGTGTGCAAACTTGACCCAGCCCCGGCTCTGCTATCTCGTGAAG
GAAGGAGGCAGCTATGGCTTCTCTGAAAACCTCCAAGGTA AAAAGGGGTGTACATG
ACTGATATTACACCTCAAGGTGTGGCTATGAGAGCTGGAGTTCTGGCTGATGATCACTTG
ATTGAAGTGAATGGAGAGAATGTAGAGGATGCCAGCCATGAGGAAGTGGTTGAAAAGGTG
AAGAAGTCAGGAAGCCGTGCATGTTCTGCTGGTGGACAAAGAACTGACAAGCGTCAT
GTTGAGCAGAAGATACAATTCAAAAGAGAAACAGCCAGTTTGAACTGTTACCCACCAG
CCCCGAATTGTGGAGATGAAGAAAGGAAGCAATGGCTATGGTTTCTATCTGAGGGCAGGC
TCAGAACAGAAAGGTCAAATCATCAAGGACATAGATTCTGGAAGTCCAGCAGAGGAGGCT
GGCTTGAAGAACAATGATCTGGTAGTTGCTGTCAACGGCGAGTCTGTGGAACCCCTGGAT
CATGACAGTGTGGTAGAAATGATTAGAAAGGTGGAGATCAGACTTCACTGTTGGTGGTA
GACAAAGAGACGGACAACATGTACAGACTGGCTCATTTTTCTCCATTTCTCTACTATCAA
AGTCAAGAAGTCCCAATGGCTCTGTCAAGGAGGCTCCAGCTCCTACTCCCACTTCTCTG
GAAGTCTCAAGTCCACCAGATACTACAGAGGAAGTAGATCATAAGCCTAACTCTGCAGG
CTGGCTAAAGGTGAAAATGGCTATGGCTTTCACCTAAATGCGATTCCGGGTCTGCCAGGC
TCATTTCAAAAGAGGTACAGAAGGGCGGTCTGCTGACTTGGCTGGGCTAGAGGATGAG
GATGTCATCATTGAAGTGAATGGGTGAATGTGCTAGATGAACCCATGAGAAGGTGGTG
GATAGAATCCAGAGCAGTGGGAAGAATGTCACACTTCTAGTCTGTGGAAGAAGGCCTAT
GATTATTTCCAAGCTAAGAAAATCCCTATTGTTTCTCCCTGGCTGATCCACTTGACACC
CCTCCAGATTCTAAGAAGGAATAGTGGTGGAGTCAAACCATGACTCGCACATGGCAAAA
GAACGGGCCACAGTACAGCCTCACATTCTTCCAATTCTGAAGATACAGAGATGTGA
    
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Clone variation with respect to NM\_002614.4

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_002614 unedited
AGATTTTGAATACGACTCACTTATAGGGCGGCCGATTCCGGCAGGCTGAGTGAACG
AACAGAGCAGCTCCTCTTCCATCTCCAGAAATGACCTCCACCTTCAACCCCGAGAATGT
AACTGTCCAAGCAAGAAGGGCAAACCTATGGCTTCTTCTCGGAATTGAGAAGGACACC
GAGGGCCACCTGGTCCGGGTGGTTGAGAAGTGTAGCCCAGCAGAGAAGGCTGGCCTCAA
GATGGAGACAGAGTTCTTAGGATCAATGGTGTCTTTGTGGACAAAGAAGAACATATGAG
GTTGTGGATCTGGTCAGAAAGAGTGGGAATTCAGTGACTTTACTAGTTCTGGATGGGGAT
TCCTATGAGAAAGCAGTGA AACACGGGTGGACTTGAAAGAGTTGGGTCAAAGTCAGAAG
GAGCAAGGTTTGAAGTATAATACTTTCCCTGTGATGAATGGAGGTGTGCAAACCTGG
ACCCAGCCCCGGCTCTGCTATCTCGTGAAGGAAGGAGGCAGCTATGGCTTCTCTGAAA
ACTGTCCAAGGTAAAAGGGGTGTACATGACTGATATTACACCTCAAGGTGTGGCTATG
AGAGCTGGAGTTCTGGCTGATGATCACTTGATTGAAGTGAATGGAGAGAATGTAGAGGAT
GCCAGCCATGANGAAGTGGTTGAAAAGGTGAAGAAGTCANGAAGCCGTGCATGTTCTG
CTGGTGGACAAAGAACTGACAAGCGTCATGTTGAGCAGAAGATACATTCANAAGAGAAC
AGCCAGTTTGAAAACCTGTACCCACCAGCCCNAGATTGTNGAGATGAAGAAAGGAAGCAT
GGNCTATGTTTCTATCTGAGNCANGCTCAGAACAGAAAGGTCAAATCATCAAGGACATT
AGATTCTGGAAGTCCACCAGAAGAAGGCTGCCTTTGAGNAACNNTGATNCTGNTAGNTGC
TGTCAAACGCGAGTCTGTGAACACCCTGATCATGACAGTGTGGNANAATGATTA AAAA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002614 unedited NAAACCGTTACTGAGNACCGCGCCCGCTTNCATANGATCGNATTTTTTTTTTTTTTTTTTTT TTATTGGGAAAGGGGATTTA TTCCACCAACCCCAACTTGTACAAAACCCCAATTTTAAAGGCTTATCTGCTAAAAAG CTTTTATAAACCGCTGGCCCTATACAAAGTAAAAATCATCTTTGGGGCCAAGGAACC CGTAAAAATAAAAACCTCCTCCTCCAAAAAATGTAGTTAAGTTAAGTTGAACCTTGA AAAAAACACTGAAAAAATCTAGCCCTTGCCTTAACCTTCCAAAGTTAACCAAAAAAT ACCCGTCTGCAATACCCCTGTAAAGACAAATGATACCGAAAACTCCCCCTGGGGAA GGGTTTCCAGGGGAGTTTTTCTTCTAAAGAAACAGTAAACAGGTCACTATTCTCTTG AAAAGGATTCTATTAATACCAACACAGCTATCAAATAAACAGCAAGCTATTACTT GTTTTCATCACATCCCTGTATCTTCAAAAATTGAAAAAATGTGAGGCTGCTGGGG CCCGTTCTTTCCATGTGCAATTCAGGGTTTGCCCCCCCCCTTTTCTTCTTAAAAAC CCGGAGGGGGCCAGGGGTTCGCCCGGGGGAAACCAAGAGGGTTTTTCTTAACTTG GAAAAAACATAAGGCTTCTTTCCCAAGAAACAAAAAGGTAGAAATTTTCCCCGTGGC TGGGGTCTACCCCTTACAAAGGGTTCACACTTGCCAAATTTCCCCCTTTCC TTTAAGGGAAGGAATCCCTTATCTCTTAAACCAACCCATTAAGGAGAACCCCTT TTTGTACCTCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002614
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_002614.3</a></u> , <u><a href="#">NP_002605.2</a></u>
<b>RefSeq Size:</b>	2131 bp
<b>RefSeq ORF:</b>	1560 bp
<b>Locus ID:</b>	5174
<b>UniProt ID:</b>	<u><a href="#">Q5T2W1</a></u>
<b>Cytogenetics:</b>	1q21.1
<b>Domains:</b>	PDZ

**Gene Summary:**

This gene encodes a PDZ domain-containing scaffolding protein. PDZ domain-containing molecules bind to and mediate the subcellular localization of target proteins. The encoded protein mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. Single nucleotide polymorphisms in this gene may be associated with metabolic syndrome, and overexpression of this gene may play a role in drug resistance of multiple myeloma. Pseudogenes of this gene are located on the long arm of chromosome 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same 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.