

Product datasheet for **SC100472**

PACSIN1 (NM_020804) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACSIN1 (NM_020804) Human Untagged Clone
Tag:	Tag Free
Symbol:	PACSIN1
Synonyms:	SDPI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100472 sequence for NM_020804 edited (data generated by NextGen Sequencing)

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ATGTCCAGCTCCTACGATGAGGCCTCACTGGCGCCAGAGGAGACCACCGACAGCTTCTGG
GAGGTGGGGAAC TACAAGCGGACCGTGAAGCGCATCGATGACGGCCACCGTCTATGCAAC
GACCTGATGAACTGCGTG CAGGAGCGCGCAAGATCGAGAAGGCGTACGGGCAGCAGCTC
ACCGACTGGGCCAAGCGTTGGCGCCAGCTCATCGAGAAAGGCCACAGTATGGCAGCCTG
GAGCGGGCTGGGGTGCCATAATGACAGAGGCAGACAAGGTGAGCGAGCTGCACCAGGAG
GTGAAGAACAATCTGCTGAATGAGGACCTGGAGAAGGTGAAGAACTGGCAGAAGGACGCC
TATCACAAGCAGATCATGGGTGGCTTCAAGGAGACGAAGGAGGCTGAAGATGGCTTCCGC
AAGGCCAGAAGCCTTGGCCAAGAAGATGAAGGAGCTGGAGGCCAAGAAGGCTAC
CATTTGGCTTGCAAAGAGGAAAAGCTGGCCATGACACGGGAGATGAACAGCAAGACGGAG
CAATCGGTACACCTGAGCAGCAAAAGAAGCTGCAGGACAAAGTGGACAAGTGAAGCAG
GATGTGCAGAAGACACAGGAGAAGTATGAGAAAGTGTGGAAAGATGTGGGCAAGACCACA
CCCCAGTACATGGAGAACATGGAGCAGGTGTTTGAGCAATGCCAGCAATTTGAGGAAAAG
CGGCTGGTCTTCCCTCAAGGAGGTGCTGCTGGACATCAAACGGCACCTCAACCTGGCTGAG
AACAGCAGCTACATCCATGTGTACCGTGAGCTGGAGCAGGCCATCCGGGGGGCTGATGCC
CAGGAAGACCTCAGATGGTTCGCGAGCACCAGTGGCCCCGGCATGCCATGAACTGGCCC
CAGTTTGAGGAGTGGAACCCAGACCTTCCCTCACACCACCACCAAGAAGGAGAAAACAGCCT
AAGAAGGCAGAGGGAGTGGCGCTGACCAATGCCACTGGGGCGGTAGAGTCCACATCCCAG
GCTGGGGACCGCGCAGTGTTAGCAGCTACGACAGAGGCCAGCCCTACGCCACCGAGTGG
TCAGACGACGAGAGTGGGAACCCCTTTGGGGGCGAGTGGACCAACGGGGGCGCCAACCCC
TTTGAGGACGACTCCAAGGGAGTGCGCGTGCGGGCACTCTACGACTATGACGGCCAGGAG
CAGGACGAGCTCAGCTTTAAGGCCGGAGACGAACTCACCAAGCTGGGCGAGGAGGATGAG
CAGGGCTGGTGGCGTGGGCGGCTGGACAGCGGGCAGCTGGGCCTTACCCTGCCAACTAC
GTGGAGGCTATCTAG

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Clone variation with respect to NM_020804.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020804 unedited
 AAACCTACCGCCGCCGTTCCCGCTAAGGGCGGTAGGCGTGACGGTGGGAGGTCTATAT
 AAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC
 CGCGAATTCGGCACGAGGCGCCTCAGCTCTGACCTTCTCCTTCCCGCAGCCCCGGCGAG
 ATCCCAGAGCGACGCGGTGGCGGCGGCAGCGCCTGTCCCTCCTCCCCGGGAAGTCGGC
 CGGGCTTGAGGCCGGGCCAGAGCTCCCGCTTCGCCCCGAGGCGCCCGCATGGTCCCC
 GGAGCTCCTGCCCCAGTGCATGAGCAGCCGAGCCTGCTAACCGCAGCTCCGCATTGTC
 CATCCCCCTGCGGCTACACCATGTCCAGCTCCTACGATGAGGCCTCACTGGCGCCAGAGG
 AGACCACCGACAGCTTCTGGGAGGTGGGAACTACAAGCGGACCGTGAAGCGCATCGATG
 ACGGCCACCGTCTATGCAACGACCTGATGAACTGCGTGCAGGAGCGGCCAAGATCGAGA
 AGGCGTACGGGACGAGCTCACCAGCTGGGCCAAGCGTTGGCGCCAGCTCATCGAAAAG
 GCCACAGTATGGCAGCCTGGAGCGGCCCTGGGGTCCATAATGACAGAGGCAGACAAGG
 TGACGAGCTGCACCAGGAGGTGAANGACAATCTGCTGAAATGAGACCTGGAGAAGTGA
 AGAACTGGCAGAAGGACGCTATACAAGCAGATCATGGGTGGGCTCAAGGAGACGAAAAG
 GAGCTGAAGATGGCTTTCCCGCAGGCCAGAAAGCTTGGGCCAAGAAGATGAAAGAGCTGGN
 AGCAGCCAAGAAGCCTACCATTTGCTTGCAAAGAGAAAAGCTGGCCTGACACGGGAGATG
 ACAGCAAGACGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020804 unedited
 GCCTAGCTATTACCGCGCCGCTTCTAAGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTACAATCACAACCTGATATATATATATATTTGGATTTATATACCTTTAAA
 TTACACAATCATGTACAAAACAGGGGCATTGCTGAAACCACAGCACTTCTCGGAGTTTCA
 CAAGTGTGCGAACTAATGGAGTCAGGAAGCCTAAGGCGGCAAACGGCGGGCGGTGGGGCA
 ACCCTGGTTCCTTGCAAACAGGCCGCAAATGGGGTTAACTGGGGACAAAACACATT
 ACTCGCCGAGCCCCACAGGGCGGGCCCGTGCAGCATCGTGGGTGCAGGACAGGGGTACA
 GGAGGAGGCCGTGGGCATGGCAAGGGGCGTGGCCCCACACTCGGTGTTGAGTGCCTGA
 CACCAGCACTGGCAGGTAGGGCTGGGCCCTGGAGCTCAAGGGGACTTCCAGGTAGGAAAC
 CCTCCCGCTCTGGGGCCCTGAGGACCTGGGGACTGAGAGAGTGGTCCCAAACAGGGCCCT
 GGAGGTGGCTGCTCAAGACGGAGGGGTTTCGAGTCCCTGCCCTGGAGTGGGCAGCTAGA
 GTGCTAAGAGGGACAGGCTGGAGTCCAGCTGGGGCTGCAACCCCTCCAGGTGCTGGGAA
 GCCGCTGGCACAATAGAGGGGAGCCCAAGCCCCAAAGTGCAGATTGCCAGCTTCCACCT
 TTCCAAGGTAAACGATGAAGGACAAAAGGCCCAACCCCAACTCCTGGCCTGGGAAAAGC
 CTGGANAGAGAGGCTCCTGCCCTGGAGCTGGGAAGACTGCAAGCCTCCAAAAAATTGCT
 TCAGGCTCCTGAGGAGCCAGAACACACCTTAGGCTGGAGGC

Restriction Sites:

ECORI-NOT

ACCN:

NM_020804

Insert Size:

4700 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:	<u>NM_020804.2</u> , <u>NP_065855.1</u>
RefSeq Size:	4282 bp
RefSeq ORF:	1335 bp
Locus ID:	29993
UniProt ID:	<u>Q9BY11</u>
Cytogenetics:	6p21.31
Domains:	FCH, SH3
Protein Families:	Druggable Genome
Gene Summary:	<p>Plays a role in the reorganization of the microtubule cytoskeleton via its interaction with MAPT; this decreases microtubule stability and inhibits MAPT-induced microtubule polymerization. Plays a role in cellular transport processes by recruiting DNM1, DNM2 and DNM3 to membranes. Plays a role in the reorganization of the actin cytoskeleton and in neuron morphogenesis via its interaction with COBL and WASL, and by recruiting COBL to the cell cortex. Plays a role in the regulation of neurite formation, neurite branching and the regulation of neurite length. Required for normal synaptic vesicle endocytosis; this process retrieves previously released neurotransmitters to accommodate multiple cycles of neurotransmission. Required for normal excitatory and inhibitory synaptic transmission (By similarity). Binds to membranes via its F-BAR domain and mediates membrane tubulation. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>