

## Product datasheet for **SC323836**

### **PACSIN1 (NM\_020804) Human Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	PACSIN1 (NM_020804) Human Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	PACSIN1
<b>Synonyms:</b>	SDPI
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC (PS100020)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_020804.2  
 GCCTTCCTGAGTGAGCGTGGAGGGAACCCTAGAGGACAGAGCCCCAGCCCGGCAGCAG  
 GCCCCTCTCCGCCGCCACCACGGAGGAGAAGGAGGACAGCCAGCCCTCCAGCCCTGG  
 CCTGGCCAGCGGGGAGTAAGCTCCTACTTGCCCCAGCTTGGTGCCACACGGGCC  
 AGTGCATGAGCAGCCGAGCCTGCTAACCAGCAGCTCCGCACTTGTCCATCCCCCTGCGGT  
 ACACCATGTCCAGCTCCTACGATGAGGCCTCACTGGCGCCAGAGGAGACCACGACAGCT  
 TCTGGGAGGTGGGAACTACAAGCGGACCGTGAAGCGCATCGATGACGGCCACCGTCTAT  
 GCAACGACCTGATGAACTGCGTGCAGGAGCGGCCAAGATCGAGAAGGCGTACGGGCAGC  
 AGCTCACCGACTGGGCCAAGCGTTGGCGCCAGCTCATCGAGAAAGGCCACAGTATGGCA  
 GCCTGGAGCGGGCTGGGGTGCATAATGACAGAGGCAGACAAGGTGAGCGAGCTGCACC  
 AGGAGGTGAAGAACAATCTGCTGAATGAGGACCTGGAGAAGGTGAAGAACTGGCAGAAGG  
 ACGCCTATCACAAGCAGATCATGGGTGGCTTCAAGGAGACGAAGGAGGCTGAAGATGGCT  
 TCCGCAAGGCCCGAGAAGCCTTGGGCCAAGAAGATGAAGGAGCTGGAGGCAGCCAAGAAGG  
 CCTACCATTTGGCTTGCAAAGAGGAAAAGCTGGCCATGACACGGGAGATGAACAGCAAGA  
 CGGAGCAATCGGTACACCTGAGCAGCAAAAAGAAGCTGCAGGACAAAAGTGACAAGTGA  
 AGCAGGATGTGCAGAAGACACAGGAGAAGTATGAGAAAGTGTGGAAAGATGTGGGCAAGA  
 CCACACCCAGTACATGGAGAACATGGAGCAGGTGTTTGGCAATGCCAGCAATTTGAGG  
 AAAAGCGGCTGGTCTTCTCAAGGAGGTGCTGCTGGACATCAAACGGCACCTCAACCTGG  
 CTGAGAACAGCAGCTACATCCATGTGTACCGTGAGCTGGAGGCCATCCGGGGGGCTG  
 ATGCCCCAGGAAGACCTCAGATGGTTCCGCAGCACCAAGTGGCCCCGCATGCCATGAACT  
 GGCCCCAGTTTGGAGAGTGAACCCAGACCTTCTCACACCACCAAGAAGGAGAAAC  
 AGCCTAAGAAGGCAGAGGGAGTGGCGCTGACCAATGCCACTGGGGCGGTAGAGTCCACAT  
 CCCAGGCTGGGGACCGCGCAGTGTAGCAGCTACGACAGAGGCCAGCCCTACGCCACCG  
 AGTGGTCAGACGACGAGAGTGGGAACCCCTTTGGGGCAGTGAGACCAACGGGGGCGCCA  
 ACCCCTTTGAGGACGACTCCAAGGGAGTGCAGTGCAGGCACTCTACGACTATGACGGCC  
 AGGAGCAGGACGAGCTCAGCTTTAAGGCCGAGACGAACCTACCAAGCTGGGCGAGGAGG  
 ATGAGCAGGGCTGGTCCGTGGGCGGCTGGACAGCGGGCAGCTGGGCCTTACCCTGCCA



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ACTACGTGGAGGCTATCTAGAGGCCCCCTCCCTCCATACTCCCGTCACTCCTCCCCACTG  
 CCGCCCCCTCCCCTCCCCTCTCGTCTCCTTCCCCTCGCCATAGAGTTCCAGACATATTTT  
 CCGATCAAGCTTTTATTTTTTAAAAAGTCAAAACAGAACAAAACAAAGTATGCAGAGACA  
 GAGCATTTGCAGGGCCACCTGGAGGCTGGGGTGTGGGGCTTGGGGTGGCCCCAGGGTAG  
 GTAACAGTCTTAGGACTTAGCCCAACATCAACATCTGCTCTTCGGGTCCACCAAAGA  
 GTCTCTGAGCCCTGAGGGATGGATGTCTCCTGACCCTTCCACCCCGCTCACTCCCTCC  
 GTCCCACTCCACTCCAGGCTGCCGGCACCTGCCCACTTCCCTGGCCTGGTTTCTAACCT  
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 CCAGACCCTGGAAGGGAGGCTTCCCCATCTTTAGTTTTCCACTCTGCCCGGGGAGCAC  
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 CAACTGCAGAGGACCTGTCCCCTCTCAAAGTCCCCTGGCCTAGGGTGGGACCCCAA  
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 TTGTTCCCCTGGCCCCACTCTCCCTCCATGTCCATCCAAAACCATAAATCACTGGG  
 TTCCACATCAGCCTCCATGAGGCCAAGCCTTGTACCTGCAAGGCTCTTGGCCTAACCACT  
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 CAGGAAGAAGATAGTCACATGTTTTTCTCCTTGTCCCCACAGCCCCAGAACACATTC  
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 AGGGCGGGGAGCTGGAAGAAAAGTCTTGGGGACCTTGGGGCAAGGAGCTGAGAAGTC  
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 ATGCCCTCCTCCCTCCTGCACACCTGGCCTCCTGGGCCTCCAGGTAAGAGAGAGAGCCA  
 GCCCAGCCCTGTTTCCCCTCAGTCTCCTTTGCTCCTGCTGCTTCTCCAACAGCCCACT  
 GTTAGGAGGTAGTAGACCCAGCCTCAAGGCTCTGACCTTCTTTCATGTGGGCACAGAGGG  
 TCCTGACTCTGGCAGGGCCTGAGCTGGGGCAGGCCTCCCTCAGGGCCAGGGGCGATGG  
 CACCCCGGGGACAGGCAGACCTCCTTCTGCCGTGACACCCCTTCTTATCACTGTCT  
 GGTCTCCGAGCTTCGGCTGCAGCCTGAGGTGTGCTCCTGGGCTCCTCAGAGCCTGAAGCAA  
 GCTTTTGAAGCCTGCAGTCTCCAGCTCCAGTGCAGAAGCCTCTCTCTCCAGCCTTTC  
 CCCAGGCAGGAGTTGGGGTGGGGGCTCTGTCCCTCATCGTTACCTTGGAAAGGTGGG  
 AAGCTGGCAATCTGCACCTTGGGGCTGGGCTCCCCCTCTCTGTGCCAGCGGCTTCCCAG  
 CACCTGGGAGGGGCTGCAGCCCCAGCTGGACTCCAGCCTGTCCCTCTTAGCACTTAGCT  
 GCCCACTCCAGGGCAGGGACTCGAAACCCCTCCGTCTGAGCAGCCACCTCCAGGGCCC  
 TGTTTGGGACCCTCTCTCAGTCCCAGGTCTCAGGGCCCCAGAGCGGGAGGGTCTCCT  
 ACCTGGAAGTCCCCCTGAGCTCCAGGGCCAGCCCTACCTGCCAGTGTGGTGTGTCAGGGC  
 ACTCAACACCGAGTGTGGGGCCACGCCCTTGCATGCCACGGCTCCTCCTGTAGCC  
 CCTGCCTGCACCCACGATGCTGCACGGGCCCGCCTGGTGGGGCTCGGGAGTAATGTGT  
 TTTGTCCCAGTTAACCACCTTCTGCGGCCTGGTTCTGCAAGGAACAGGGCTGCCCA  
 CCGCCCGCCTGCGCCCTAGGCTTCTGACTCCATTAGTTCCGACACTTGTGAAACT  
 CCGAGAAGTGTGGTCTCAGCAATGCACCTGTTTTGTACATGATTGTGTAATTTAAAG  
 GTATATAAATACAAATATATATATATATATCAGTTGTGATTGTACTGTGGATAAAATCC  
 AGAACTGTGTCAA

**Restriction Sites:** ECoRI-NOT  
**ACCN:** NM\_020804

<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_020804.2</a></u> , <u><a href="#">NP_065855.1</a></u>
<b>RefSeq Size:</b>	4282 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	29993
<b>UniProt ID:</b>	<u><a href="#">Q9BY11</a></u>
<b>Cytogenetics:</b>	6p21.31
<b>Domains:</b>	FCH, SH3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<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>