

Product datasheet for **MC227723**

Pacsin1 (NM_001286744) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pacsin1 (NM_001286744) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pacsin1
Synonyms:	A830061D09Rik; H74; mKIAA1379; syndapin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227723 representing NM_001286744
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTGGCTCCTACGATGAGGCCTCAGAGGAGATCACAGATAGCTTCTGGGAGGTGGGAACTACAAGC
 GGACGGTGAAGCGCATCGACGATGGGCACCGCCTGTGCAACGACCTCATGAGCTGCGTGCAGGAGCGCGC
 CAAGATCGAGAAGGCATACGCGCAGCAGCTCACCGACTGGCCAAAGCGCTGGCGCCAGCTCATCGAGAAA
 GGTCTCAGTATGGCAGCCTGGAGCGGGCGTGGGGCGCCATGATGACAGAAGCAGATAAGGTGAGCGAGC
 TGCACCAGGAGGTGAAGAACAGCCTGCTGAATGAGGACCTGGAGAAAGTCAAGAACTGGCAGAAGGATGC
 CTATCACAAGCAGATCATGGGTGGCTTCAAGGAGACGAAAGAGGCCGAGGATGGCTTCCGAAAGGCCAG
 AAGCCCTGGGCTAAAAAGATGAAGGAGCTAGAGGCGGCCAAGAAGGCCTATCACTTGGCTTGTAAAGGAGG
 AAAGGTGGCCATGACCCGGGAGATGAACAGTAAGACAGAGCAGTCGGTCAACCCGTAACAGCAGAAGAA
 ACTTGTGGACAAAGTGGACAAATGCAGACAGGATGTGCAAAAGACTCAGGAGAAGTATGAGAAGGTGCTG
 GAAGATGTGGGCAAGACCACACCACAGTACATGGAGGGCATGGAGCAGGTGTTTGAGCAGTGCCAGCAGT
 TTGAGGAGAAGCGGCTGGTCTTCTGAAGGAAGTCTGCTGGATATCAAACGGCATCTCAACCTAGCGGA
 GAACAGCAGCTACATGCATGTCTACCGAGAAGTGGAGCAGGCCATCCGGGGGGCCGATGCCAGGAGGAC
 CTCAGGTGGTTCCGCAGCACCAGTGGCCCCGGGATGCCATGAACTGGCCGCAAGTTCGAGGAGTGGAAAC
 CAGACCTCCCGCACACCCTGCCAAGAAGGAGAAAACAGCCTAAGAAGGCAGAGGGGGCCACCCTGAGCAA
 TGCCACTGGGGCTGTAGAATCCACATCCCAGGCTGGGGACCGTGGCAGTGTTAGCAGCTATGACCCAGGC
 CAAACATATGCCACCGAGTGGTCAGACGATGAGAGCGGAAACCCCTTCGGGGCAATGAGCCAAATGGTG
 GCGCCAACCCCTTCGAGGATGATGCCAAGGGGATTCGTGTACGGGCACTATGACTACGACGGTCAGGA
 GCAGGATGAGCTCAGCTTCAAGGCCGGAGATGAGCTCACCAAGCTCGGAGAGGAAGACGAACAGGGTTGG
 TGCCCGGGCGGCTGGACAGCGACAGCTGGGCCTCTATCCTGCCAACTACGTTGAGGCTATATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286744
- Insert Size:** 1326 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:

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_001286744.1](#), [NP_001273673.1](#)

RefSeq Size: 4156 bp

RefSeq ORF: 1326 bp

Locus ID: 23969

UniProt ID: [Q61644](#)

Cytogenetics: 17 A3.3

Gene Summary: Binds to membranes via its F-BAR domain and mediates membrane tubulation. 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.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (4) has an alternate splice site in the 5' UTR, compared to variant 3. All variants encode the same protein. 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.