

## Product datasheet for **MR207795**

### **Pacsin2 (NM\_011862) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pacsin2 (NM_011862) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pacsin2
Synonyms:	A1197433
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207795 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTGCACCTACGATGACTCTGTGGGAGTGAAGTGTCCAGCGACAGCTTCTGGGAGTTGGGAAC  
 ACAAACCGACTGTGAAGCGGATTGACGATGGCCACCGCCTGTGTGGTACCTCATGAACTGTCTGCATGA  
 GCGGGCACGCATCGAGAAGCGTATGCACAGCAGCTCACTGAGTGGGCCCGACGCTGGAGGCAGCTGGTA  
 GAGAAGGGACACAGTATGGGACCGTGGAGAAGCCTGGATAGCTGTCATGTCTGAAGCAGAGAGGGTGA  
 GTGAACTGCACCTGGAAGTGAAGGCATCACTGATGAATGAAGACTTTGAGAAGATCAAGAAGTGGCAGAA  
 GGAAGCCTTTACAAGCAGATGATGGGAGGCTTCAAGGAGACAAAGAAGCAGAGGATGGCTTTCCGGAAG  
 GCCCAGAAGCCCTGGGCCAAGAAGCTGAAAGAGGTGGAAGCGGCAAGAAGGCGCACCACACAGCGTGCA  
 AAGAGGAGAAGCTGGCCATCTCCCGGAAGCCAACAGCAAGGCAGATCCATCCCTCAACCCTGAGCAGCT  
 GAAGAACTGCAAGACAAGATAGAAAAATGCAAAACAGGATGTTCTAAAGACCAAGGACAAGTATGAGAAG  
 TCCTGAAGGAGCTTGATCAGACCACACCCAGTACATGGAGAACATGGAGCAGGTGTTTCGAGCAGTGCC  
 AGCAGTTTGAAGAGAAGCGCCTGCGCTTCTCCGGGAGGTTCTGCTGGAGTTTCAGAAGCACTTGGATCT  
 GTCCAATGTGGCTAGCTATAAAACCATTTACCGGAGCTGGAGCAGAGCATCAAAGCAGCAGATGCGGTA  
 GAGGACCTGAGGTGGTCCGGGCTAACCATGGGCCAGGCATGGCTATGAACTGGCCACAGTTTGAGGAGT  
 GGTCTGCAGATCTGAATCGAACTCTCAGCCGGAGAGAGAAGAAGAAGGCTGTTGACGGTGTCAACCCTAAC  
 AGGGATCAACCAGACAGGTGACCACTCTGGACAGAACAGCCTGGCAGCAACCTTAGTGTCCCGAGCAAC  
 CCCGCCAGTCCACGCAGTTACAGTCCAGCTACAACCCCTTCGAGGACGAGGACGACACGGGCAGCAGCA  
 TCAGTGAGAAGGAGGACATTAAGGCCAAAAATGTCAGCAGCTATGAGAAGACTCAGACTTACCCCACTGA  
 CTGGTCTGATGATGAGTCTAACAACCTTTCTCCTCCACGGATGCCAACGGGGATTCTGAACCCCATTTGAT  
 GAGGACACGACCTCAGGAACAGAAGTGGAGTTCCGGCCCTCTATGACTATGAGGGGCAGGAACATGATG  
 AGCTGAGCTTCAAGGCTGGGATGAACTGACCAAGATAGAGGATGAAGATGAACAGGGTTGGTGAAGGG  
 ACGTTTAGACAGCGGCCAGGTTGGCCTATACCCAGCCAATATGTCGAGGCTATCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207795 protein sequence  
 Red=Cloning site Green=Tags(s)

MSVTYDDSVGVEVSSDSFWEVGNKRTVKRIDDGHRLCGDLMNCLHERARIEKAYAQQLEWARRWRQLV  
 EKGPPQYGTVEKAWIAVMSEAERVSELHLEVKASLMNEDFEKIKNWQKEAFHKQMMGGFKETKEAEDGFRK  
 AQKPWAKKLKEVEAAKKAHHTACKEEKLAISREANSKADPSLNPEQLKKLQDKIEKCKQDVLKTKDKYK  
 SLKELDQTTTPQYMNEMEQVFEQCQQFEKRLRFFREVLLLEVQKHLDL.SNVASYKTIYRELEQSIKAADAV  
 EDLRWFRANHGPGMAMNWPQFEWESADLNRTL.SRREKKKAVDGVTLTGINQTDQSGQNKPGSNLSVPSN  
 PAQSTQLQSSYNPFEDDDTGSSISEKEDIKAKNVSSYEKTQTYPTDWSDDPESNPFSSDANGDSNPFDA  
 EDTTSGTEVRVRALDYEQEHDEL.SFKAGDELTKIEDEDEQGWCKGRLDSGQVGLYPANYVEAIQ

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_011862

ORF Size: 1461 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_011862.1](#), [NM\\_011862.2](#), [NM\\_011862.3](#), [NP\\_035992.1](#)

RefSeq Size: 3732 bp

RefSeq ORF: 1461 bp

Locus ID: 23970

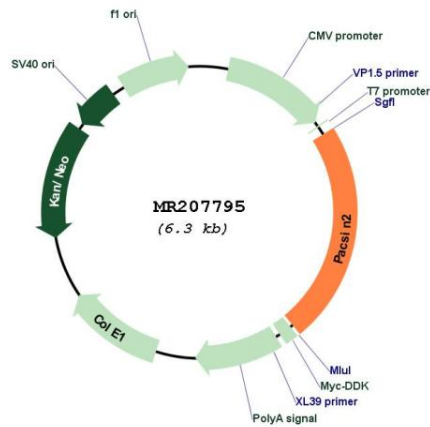
UniProt ID: [Q9WVE8](#)

**Cytogenetics:** 15 E1

**MW:** 55.8 kDa

**Gene Summary:** Lipid-binding protein that is able to promote the tubulation of the phosphatidic acid-containing membranes it preferentially binds. Plays a role in intracellular vesicle-mediated transport. Involved in the endocytosis of cell-surface receptors like the EGF receptor, contributing to its internalization in the absence of EGF stimulus. May also play a role in the formation of caveolae at the cell membrane. Recruits DNM2 to caveolae, and thereby plays a role in caveola-mediated endocytosis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207795