

Product datasheet for **MR229839**

Pacsin3 (NM_001289678) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pacsin3 (NM_001289678) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pacsin3
Synonyms:	4921507A02Rik; 6330413E15Rik; AW413130
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229839 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTCCAGAGGAGACGCCGGAGGGGAGGTCCTAGGGGCGAGTTTCTGGGAGGCTGGCAACTACAGAC
 GGACGGTCAGAGGGTTGAGGATGGGCACAGGCTGTGTGGGACCTGGTTAGCTGCTTCCAAGAAGCTGC
 CCGCATTGAGAAGGCCTACGCCACGAGCTGGCTGACTGGGCCCGCAAGTGGAGGGGTGCTGTGGAGAAG
 GGCCACAGTACGGCACCTGGAGAAGGCCTGGCATGCCTTCTTCACTGCGGCTGAGAGGCTGAGCGAGC
 TGCCTTGGAGGTGAGGGAGAAGTTGCACGGTCCAGACAGCGAGCGAGTGCAGGCTGGCAGCGAGGGGC
 TTTCCACCGGCCAGTGTGGGGGCTTTCCGGAAAGCCGGGCTGCAGAGGATGGTTCCGTAAGCTCAG
 AAGCCCTGGCTAAAGAGGCTGAAGGAGTTGAGGCTTCTAAGAAGAGCTACCACACAGCCCGCAAGGATG
 AGAAGACAGCCAGACCCGGGAGAGCCACGCGAAGGCAGACAGCTCCATGTCCAGGAGCAGCTTCGAAA
 ATTACAGGAGCGGGTGGCCGCTGCACCAAGGAGGAGAGAGAAGATGAAAACCCAGTATGAGCAGACCTG
 GCCGAGCTAAATCGCTACACCCACGCTACATGGAGGACATGGAGCAGGCTTTTGGAGAGCTGCCAGGCTG
 CTGAGCGCCAGCGGCTTCTTCTTCAAGGATGCTTGCTCACCTGCATCAACACCTCGACCTCTCCAG
 TAGCGACAAGTTCATGAATCCATCGAGACCTGCAGCAGAGCATTGAGGCTGCCAGTGAAGAGGAT
 CTGCGCTGGTGGCGGAGCACACCGGCCCTGGCATGGCCATGAATGGCCACAGTTTGGGAATGGTCGT
 TAGACACACAGAGGCCATCAGCCGCAAGGAGAAGGGTGGCCGGAGCCAGATGAGGTTACTCTGACCAG
 CATTGTACCGACAAGAGATGGCACCGCACCCCCACCCAGTCCCATCGTCCCGGGTAGCGGCAGGAC
 GAGGACTGGTCAGATGAGGAGAGTCCCCGAAAGTTGCCACTGGGGTGGGGTACGGGCGCTTTATGACT
 ATGCTGGCCAGGAGGCTGATGAGCTGAGCTTCCGAGCAGGGGAAGAGTTGCTGAAGATGAGCGAGGAGGA
 TGAGCAGGGCTGGTCCAGGGCCAGCTGCAGAGTGGCCGATTGGTCTGTACCCTGCCAATTACGTAGAA
 TGTGTGGGCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229839 protein sequence
 Red=Cloning site Green=Tags(s)

MAPEEDAGGEVLGGSFWEAGNYRRTVQRVEDGHRLCGDLVSCFQERARIEKAYAQLADWARKWRGAVEK
 GPQYGTLEKAWHAFFTAERLSELHLEVREKLHGPDSERVRTWQRGAFHRPVLGGFRESRAAEDGFRKAQ
 KPWLKRLKEVEASKKSYHTARKDEKTAQTRESHAKADSSMSQEQLRKLQERVGRCTKEAEKMKTYEQL
 AELNRYTPRYMEDMEQAFESCQAAERQRLFFKDVLLTLHQHLDLSSDKFHLEHRLDQQSIEAASDEED
 LRWWRSTHGPGMAMNWPQFEWSLDTQRAISRKEKGGSPDEVTLTIVPTRDGTAPPPQSPSSPGSGQD
 EDWSDEESPRKVATGVRVRALYDYAGQEDELFRAGEELLKMSEEDEQGWCCQQLQSGRIGLYPANYVE
 CVGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001289678

ORF Size: 1275 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_001289678.1](#), [NP_001276607.1](#)

RefSeq Size: 1864 bp

RefSeq ORF: 1275 bp

Locus ID: 80708

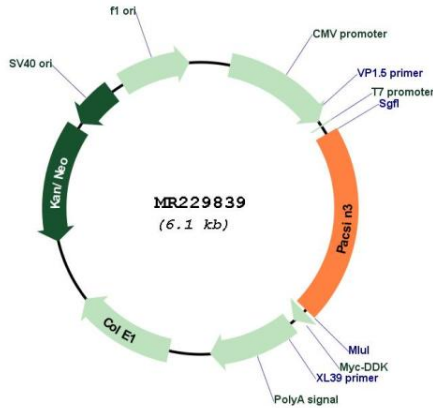
UniProt ID: [Q99JB8](#)

Cytogenetics: 2 E1

MW: 48.6 kDa

Gene Summary: Plays a role in endocytosis and regulates internalization of plasma membrane proteins. Overexpression impairs internalization of SLC2A1/GLUT1 and TRPV4 and increases the levels of SLC2A1/GLUT1 and TRPV4 at the cell membrane. Inhibits the TRPV4 calcium channel activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229839