

Product datasheet for **MR222568**

Pacsin2 (NM_001159510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pacsin2 (NM_001159510) 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:

>MR222568 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTGCACCTACGATGACTCTGTGGGAGTGAAGTGTCCAGCGACAGCTTCTGGGAGTTGGGAAC
 ACAAACCGACTGTGAAGCGGATTGACGATGGCCACCGCCTGTGTGGTACCTCATGAACTGTCTGCATGA
 CGGGGCACGCATCGAGAAGCGTATGCACAGCAGCTCACTGAGTGGGCCCGACGCTGGAGGCAGCTGGTA
 GAGAAGGGACACAGTATGGGACCGTGGAGAAGCCTGGATAGCTGTCTGTAAGCAGAGAGGGTGA
 GTGAACTGCACCTGGAAGTGAAGGCATCACTGATGAATGAAGACTTTGAGAAGATCAAGAAGTGGCAGAA
 GGAAGCCTTTCACAAGCAGATGATGGGAGGCTTCAAGGAGACAAAGAAGCAGAGGATGGCTTTCGGAAG
 GCCCAGAAGCCCTGGGCCAAGAAGCTGAAAGAGGTGAAGCGGCAAGAAGGCGCACCACACAGCGTGCA
 AAGAGGAGAAGCTGGCCATCTCCGGGAAGCCAACAGCAAGGCAGATCCATCCCTCAACCCTGAGCAGCT
 GAAGAACTGCAAGACAAGATAGAAAAATGCAAAACAGGACGTTCTAAAGACCAAGGACAAGTATGAGAAG
 TCCTGAAGGAGCTTGATCAGACCACACCCAGTACATGGAGAACATGGAGCAGGTGTTTCGAGCAGTGCC
 AGCAGTTTGAAGAGAAGCGCCTGCGCTTCTCCGGGAGGTTCTGCTGGAGTTTGAAGCACTTGGATCT
 GTCCAATGTGGCTAGCTATAAAACATTTACCGGGAGCTGGAGCAGAGCATCAAAGCAGCAGATGCGGTA
 GAGGACCTGAGGTGGTCCGGGTAACCATGGGCCAGGCATGGCTATGAACTGGCCACAGTTTGGAGGAGT
 GGTCTGCAGATCTGAATCGAACTCTCAGCCGGAGAGAGAAGAAGAAGGCTGTTGACGGTGTCAACCCTAAC
 AGGGATCAACCAGACAGGTGACCACTGAGCAGACAAGCCTGGCAGCAACCTTAGTGTCCCGAGCAAC
 CCCGCCAGTCCACGCAGTTACAGTCCAGCTACAACCCCTTCGAGGACGAGGACGACACGGGCAGCAGCA
 TCAGTGAAGAAGGAGACATTAAGGCCAAAAATGTCAGCAGCTATGAGAAGACTCAGACTTACCCCACTGA
 CTGGTCTGATGATGAGTCTAACAACCTTCTCCTCCACGGATGCCAACGGGGATTGCAACCCCATTTGAT
 GAGGACACGACCTCAGGAACAGAAGTGCAGGTTTCGGGCCCTCTATGACTATGAGGGGCAGGAACATGATG
 AGCTGAGCTTCAAGGCTGGGGATGAACTGACCAAGATAGAGGATGAAGATGAACAGGGTTGGTGAAGGG
 ACGTTTAGACAGCGGCCAGGTTGGCCTATACCCAGCCAATATGTCGAGGCTATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222568 protein sequence
 Red=Cloning site Green=Tags(s)

MSVTYDDSVGVEVSSDSFWEVGNKRTVKRIDDGHRLCGDLMNCLHERARIEKAYAQQLEWARRWRQLV
 EKGPPQYGTVEKAWIAVMSEAERVSELHLEVKASLMNEDFEKIKNWQKEAFHKQMMGGFKETKEAEDGFRK
 AQKPWAKKLKEVEAAKKAHHTACKEEKLAISREANSKADPSLNPEQLKKLQDKIEKCKQDVLKTKDKYK
 SLKELDQTTTPQYMNEMEQVFEQCQQFEKRLRFFREVLLLEVQKHLDL.SNVASYKTIYRELEQSIKAADAV
 EDLRWFRANHGPGMAMNWPQFEWESADLNRTL.SRREKKKAVDGVTLTGINQTDQSGQNKPGSNLSVPSN
 PAQSTQLQSSYNPFEDDDTGSSI.SEKEDIKAKNVSSYEKTQTYPTDWSDDPESNNPFSSTDANGSNPFD
 EDTTSGTEVRVRALYDYEGQEHDEL.SFKAGDELTKIEDEDEQGWCKGRLDSGQVGLYPANYVEAIQ

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001159510

ORF Size: 1458 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_001159510.1](#), [NP_001152982.1](#)

RefSeq Size: 3644 bp

RefSeq ORF: 1461 bp

Locus ID: 23970

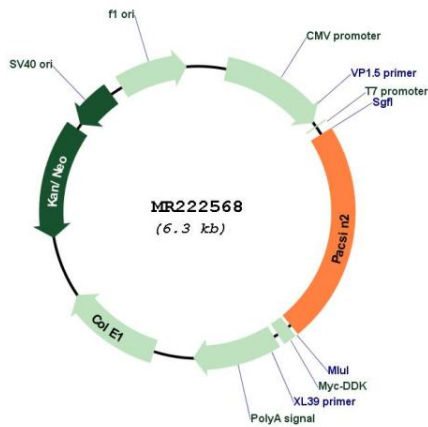
UniProt ID: [Q9WVE8](#)

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 MR222568