

Product datasheet for **MG207030**

Pacsin1 (NM_178365) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Pacsin1 (NM_178365) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Pacsin1 |
| Synonyms: | A830061D09Rik; H74; mKIAA1379; syndapin |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG207030 representing NM_178365 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCTCCTACGATGAGGCCTCAGAGGAGATCACAGATAGCTTCTGGGAGGTGGGAACTACAAGC
GGACGGTGAAGCGCATCGACGATGGGCACCGCCTGTGCAACGACCTCATGAGCTGCGTGCAGGAGCGCGC
CAAGATCGAGAAGGCATACGCGCAGCAGCTCACCGACTGGCCAAGCGCTGGCGCCAGCTCATCGAGAAA
GGTCTCAGTATGGCAGCCTGGAGCGGGCTGGGGCGCCATGATGACAGAAAGCAGATAAAGTCAGCGAGC
TGCACCAGGAGGTGAAGAACAGCCTGCTGAATGAGGACCTGGAGAAAGTCAAGAAGTGGCAGAAGGATGC
CTATCACAAGCAGATCATGGGTGGCTTCAAGGAGACGAAAGAGGCCGAGGATGGCTTCCGAAAGGCCAG
AAGCCCTGGGCTAAAAAGATGAAGGAGCTAGAGGCGGCCAAGAAGGCCTATCACTTGGCTTGTAAAGGAGG
AAAGGCTGGCCATGACCCGGGAGATGAACAGTAAGACAGAGCAGTCCGGTCAACCCGTAACAGCAGAAGAA
ACTTGTGGACAAAGTGGACAAATGCAGACAGGATGTGCAAAAGACTCAGGAGAAGTATGAGAAGGTGCTG
GAAGATGTGGGCAAGACCACCCACAGTACATGGAGGGCATGGAGCAGGTGTTTGAGCAGTGCCAGCAGT
TTGAGGAGAAGCGGCTGGTCTTCTGAAGGAAGTCTGCTGGATATCAAACGGCATCTCAACCTAGCGGA
GAACAGCAGCTACATGCATGTCTACCGAGAAGTGGAGCAGGCCATCCGGGGGGCCGATGCCAGGAGGAC
CTCAGGTGGTTCCGACGACACAGTGGCCCCGGGATGCCATGAACTGGCCGAGTTCGAGGAGTGGAAAC
CAGACCTCCCGCACACCACTGCCAAGAAGGAGAAACAGCCTAAGAAGGCAGAGGGGCCACCTGAGCAA
TGCCACTGGGGCTGTAGAATCCACATCCAGGCTGGGGACCGTGGCAGTGTAGCAGCTATGACCGAGGC
CAAACATATGCCACCGAGTGGTCAAGCAGATGAGAGCGGAAACCCCTTCGGGGGCAATGAGGCCAATGGTG
GCGCCAACCCCTTCGAGGATGATGCCAAGGGAGTTCGTGTACGGGCACTCTATGACTACGACGGTCAGGA
GCAGGATGAGCTCAGCTTCAAGGCCGAGATGAGCTACCAAGCTCGGAGAGGAAGACGAACAGGGTTGG
TGCCGCGGGCGGCTGGACAGCGGACAGCTGGGCCCTCTATCTGCCAACTACGTTGAGGCTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207030 representing NM_178365
 Red=Cloning site Green=Tags(s)

MSGSYDEASEEITDSFWVEVGNKRTVKRIDDGHRLCNDLMSCVQERAKIEKAYAQQQLTDWAKRWRQLIEK
 GPQYGLSERAWGAMMTEADKVSELHQEVKNSLLNEDLEKVKNWQKDAYHKQIMGGFKETKEAEDGFRKAQ
 KPWAKMKLEAACKAYHLACKEERLAMTREMNSKTEQSVTPEQQKLVKVDKCRQDVQKTQEKYEKVL
 EDVGKTTPOYMEGMEQVFEQCQQFEEKRLVFLKEVLLDIKRHLNLAENSSYMHVYRELEQAIRGADAQED
 LRWFRSTSGPGMPMNWPQFEWNPDLPHTTAKKEKQPKKAEATLSNATGAVESTSQAGDRGSVSSYDRG
 QTYATEWSDDESNGPFGNEANGANPFEDDAKGYRVRALYDYDQEQDEL SFKAGDEL TKLGEEDQGW
 CRGRLD SGQLGLYPANYVEAI

TRTRPLE - GFP Tag - V

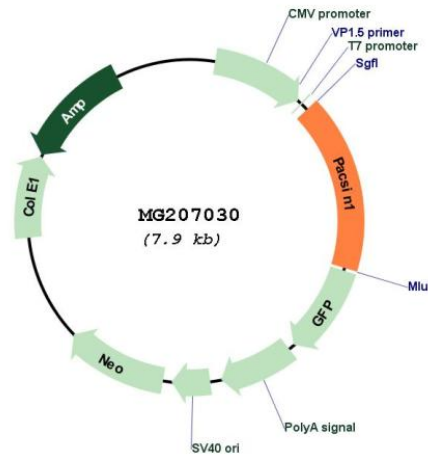
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_178365

| | |
|-------------------------------|--|
| ORF Size: | 4230 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: | <ol style="list-style-type: none">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_178365.4 |
| RefSeq Size: | 1745 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] |