

## Product datasheet for **MG222568**

### **Pacsin2 (NM\_001159510) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | Pacsin2 (NM_001159510) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                      |
| Symbol:                   | Pacsin2                                       |
| Synonyms:                 | A1197433                                      |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC-GFP (PS100010)                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |



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**ORF Nucleotide Sequence:**

>MG222568 representing NM\_001159510  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTGCACCTACGATGACTCTGTGGGAGTGAAGTGTCCAGCGACAGCTTCTGGGAGTTGGGAAC  
 ACAAACGGACTGTGAAGCGGATTGACGATGGCCACCGCCTGTGTGGTACCTCATGAACTGTCTGCATGA  
 GCGGGCACGCATCGAGAAGCGTATGCACAGCAGCTCACTGAGTGGGCCCGACGCTGGAGGCAGCTGGTA  
 GAGAAGGGACACAGTATGGGACCGTGGAGAAGCCTGGATAGCTGTCTGTAAGCAGAGAGGGTGA  
 GTGAACTGCACCTGGAAGTGAAGGCATCACTGATGAATGAAGACTTTGAGAAGATCAAGAAGTGGCAGAA  
 GGAAGCCTTTCACAAGCAGATGATGGGAGGCTTCAAGGAGACCAAGAAGCAGAGGATGGCTTTCGGAAG  
 GCCCAGAAGCCCTGGGCCAAGAAGCTGAAAGAGGTGGAAGCGGCAAGAAGGCGCACCACACAGCGTGCA  
 AAGAGGAGAAGCTGGCCATCTCCGGGAAGCCAACAGCAAGGCAGATCCATCCCTCAACCCTGAGCAGCT  
 GAAGAACTGCAAGACAAGATAGAAAAATGCAAAACAGGACGTTCTAAAGACCAAGGACAAGTATGAGAAG  
 TCCTGAAGGAGCTTGATCAGACCACACCCAGTACATGGAGAACATGGAGCAGGTGTTTCGAGCAGTGCC  
 AGCAGTTTGAAGAGAAGCGCCTGCGCTTCTCCGGGAGGTTCTGCTGGAGGTTTCAGAAGCACTTGGATCT  
 GTCCAATGTGGCTAGCTATAAAACCATTTACCGGGAGCTGGAGCAGAGCATCAAAGCAGCAGATGCGGTA  
 GAGGACCTGAGGTGGTCCGGGCTAACCATGGGCCAGGCATGGCTATGAACTGGCCACAGTTTGAGGAGT  
 GGTCTGCAGATCTGAATCGAACTCTCAGCCGGAGAGAGAAGAAGAAGGCTGTTGACGGTGTCAACCCTAAC  
 AGGGATCAACCAGACAGGTGACCACTGAGCAGACAAGCCTGGCAGCAACCTTAGTGTCCCGAGCAAC  
 CCCGCCAGTCCACGCAGTTACAGTCCAGCTACAACCCCTTCGAGGACGAGGACGACACGGGCAGCAGCA  
 TCAGTGAGAAGGAGGACATTAAGGCCAAAAATGTCAGCAGCTATGAGAAGACTCAGACTTACCCCACTGA  
 CTGGTCTGATGATGAGTCTAACAACCCCTTCTCCTCCACGGATGCCAACGGGGATTTCGAACCCATTTGAT  
 GAGGACACGACCTCAGGAACAGAAGTGCAGGTTCCGGGCCCTCTATGACTATGAGGGGCAGGAACATGATG  
 AGCTGAGCTTCAAGGCTGGGGATGAACTGACCAAGATAGAGGATGAAGATGAACAGGGTTGGTGAAGGG  
 ACGTTTAGACAGCGGCCAGGTTGGCCTATACCCAGCCAATATGTCGAGGCTATCCAG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG222568 representing NM\_001159510  
 Red=Cloning site Green=Tags(s)

MSVTYDDSVGVEVSSDSFWEVGNKRTVKRIDDGHRLCGDLMNCLHERARIEKAYAQQLEWARRWRQLV  
 EKGFPQYGTVEKAWIIVMSEAERVSELHLEVKASLMNEDFEKIKNWQKEAFHKQMMGGFKETKEAEDGFRK  
 AQKWPWAKKLKEVEAAKKAHHTACKKEEKLAISSREANSKADPSLNPEQLKKLQDKIEKCKQDVLKTKDKYK  
 SLKELDQTTTPQYMEVMEQVFEQCQVFEEKRLRFREVLLEVQKHLDL SNVASYKTIYRELEQSIKAADAV  
 EDLRWFRANHGPGMAMNWPQFEEWSADLNRTL SRREKKKAVDGVTLTGINQTDQSGQNKPGSNLSVPSN  
 PAQSTQLQSSYNPFEDDDTGSSI SEKEDIKAKNVSSYEKTQTYPTDWSDDDESNNPFSSTDANGSNPFD  
 EDTTSGTEVRVRALYDYEGQEHDEL SFKAGDELTKIEDEDEQGWCKGRLDSGQVGLYPANYVEAIQ

**TRTRPLE - GFP Tag - V**

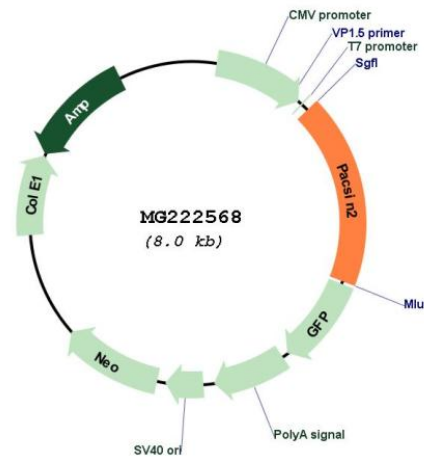
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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

**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]