

Product datasheet for **RG230094**

PACSIN2 (NM_001184971) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PACSIN2 (NM_001184971) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PACSIN2
Synonyms:	SDPII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230094 representing NM_001184971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGTACATATGATGATTCCGTTGGAGTAGAAGTGTCCAGCGACAGCTTCTGGGAGTTCGGGAAC
 ACAAGCGGACTGTGAAGCGGATCGACGATGGCCACCGCCTGTGCAGCGACCTCATGAACTGCCTGCATGA
 GCGGGCGCGCATCGAGAAGCGTATGCGCAGCAGCTCACTGAGTGGGCCCGCGCTGGAGGCAGCTCGTG
 GAGAAAGGGCCCCAGTACGGGACCGTGGAGAAGCCTGGATGGCCTTCATGTCCGAGGCAGAGAGGTGA
 GCGAGCTGCACCTCGAGGTGAAGCCTCACTGATGAACGATGACTTCGAGAAGATCAAGAAGTGGCAGAA
 GGAAGCCTTTCACAAGCAGATGATGGCGGCTTCAAGGAGACCAAGGAAGCTGAGGACGGCTTTCGGAAG
 GCACAGAAGCCCTGGCCAAGAAGCTGAAAGAGGTAGAAGCAGCAAGAAAGCCACCATGCAGCGTGCA
 AAGAGGAGAAGCTGGCTATCTCACGAGAAGCCAACAGCAAGGCAGACCCATCCCTCAACCCTGAACAGCT
 CAAGAAATGCAAGACAAAATAGAAAAGTCAAGCAAGATGTTCTTAAGACCAAGAGAAGTATGAGAAG
 TCCTGAAGGAACTCGACCAGGGCACACCCAGTACATGGAGAACATGGAGCAGGTGTTTGGAGCAGTGCC
 AGCAGTTCGAGGAGAAACGCCTTCGCTTCTCCGGGAGGTTCTGCTGGAGGTTTCAAGAAGCACCTAGACCT
 GTCCAATGTGGCTGGCTACAAAGCCATTTACCATGACCTGGAGCAGAGCATCAGAGCAGCTGATGCAGTG
 GAGGACCTGAGGTGGTCCGAGCCAATCACGGGCCGGCATGGCCATGAACTGGCCCGAGTTTGGAGGAGT
 GGTCCGCAGACCTGAATCGAACCCCTCAGCCGGAGAGAGAAGAAGAAGGCCACTGACGGCGTCACCCTGAC
 GGGCATCAACCAGACAGGCGACCACTCTCTGCCGAGTAAAGCCAGCAGTGTGAGCAGCTACGAGAAGACC
 CAGAGCTATCCCACCGACTGGTCAGACGATGAGTCTAACAAACCCCTTCTCCTCCACGGATGCCAATGGGG
 ACTCGAATCCATTGACGACGACGCCACCTCGGGGACGGAAGTGCAGAGTCCGGGCCCTGTATGACTATGA
 GGGCAGGAGCATGATGAGCTGAGCTTCAAGGCTGGGGATGAGCTGACCAAGATGGAGGACGAGGATGAG
 CAGGGCTGGTGAAGGGACGCTTGACAACGGCAAGTTGGCCTATACCCGGCAAATTATGTGGAGGCGA
 TCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230094 representing NM_001184971
 Red=Cloning site Green=Tags(s)

MSVTYDDSVGVEVSSDSFWEVGNKYKRTVKRIDDGHRLLCSLDMNCLHERARIEKAYAQQLEWARRWRQLV
 EKGPPQYGTVEKAWMAFMSEAERVSELHLEVKASLMNDDFEKIKNWQKEAFHKQMMGGFKETKEAEDGFRK
 AQKPWAKKLKEVEAAKKAHHAACKEEKLAI SREANSKADPSLNPEQLKKLQDKIEKCKQDVLKTKKEYEK
 SLKELDQGTPOYEMNEQVFEQCQVFEEKRLRFREVLLEVQKHLDL SNVAGYKAIYHDLEQSIRAADAV
 EDLRWFRANHGPGMAMNWPQFEESADLNRTL SRREKKATDGVTLTGINQTGDQSLPSKPSSVSSYEKT
 QSYPTDWSDDSNPFSSTDANGDSNPFDDATSGTEVRVRLYDYEGQEHDEL SFKAGDELTKMEDEDE
 QGWCKGRLDNGQVGLYPANYVEAIQ

TRTRPLE – GFP Tag – V

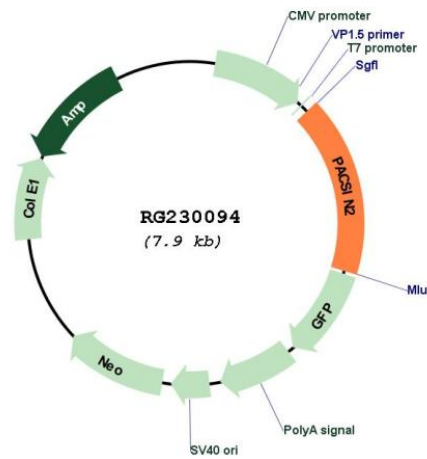
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001184971

ORF Size: 1335 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:	<u>NM_001184971.1, NP_001171900.1</u>
RefSeq Size:	3107 bp
RefSeq ORF:	1338 bp
Locus ID:	11252
UniProt ID:	<u>Q9UNF0</u>
Cytogenetics:	22q13.2
Gene Summary:	This gene is a member of the protein kinase C and casein kinase substrate in neurons family. The encoded protein is involved in linking the actin cytoskeleton with vesicle formation by regulating tubulin polymerization. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]