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# Product datasheet for MC224960

## Patj (NM_172696) Mouse Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Patj (NM_172696) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Patj |
| **Synonyms:** | C; Cipp; I; Inadl |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |
| **Fully Sequenced ORF:** | >MC224960 representing NM_172696<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGCCTGAAAACCCTGCTGCAGAGAAGATGCAGGTCCTGCAGGTCCTGGATCGCCTTCGAGGGAAGCTGC<br>AGGAGAAGGGAGACACGACGCAGAACGAGAAGCTGTCTGCGTTCTACGAGACGCTGAAGAGCCCTCTCTT<br>CAACCAGATCCTTACACTGCAGCAGTCCATCAAGCAGCTGAAGGGACAGCTTAGCCACATCCCCTCAGAT<br>TGCTCAGCCAACTTTGACTTTTCTCGCAAGGGCTTGCTAGTGTTCACGGATGGTTCCATTACAAACGGGA<br>ATGCCCAAAGGCCTTGTAGTAATGTGACTGCATCTGAACTGTTGCCCTGGACTCAAAAGTCAGCAAGTGA<br>AGACTTTAACTCAGTCATTCAGCAGATGGCTCAGGGCCGGCACGTTGAGTATATAGATATTGAACGTCCT<br>TCAACTGGAGGCCTTGGATTCAGTGTGGTGGCTCTGAGAAGCCAAAGCCTGGGATTAATTGATATCTTTG<br>TGAAGGAAGTCCATCCCGGGAGTGTAGCAGACAGGGATCACAGATTGAAGGAAAATGACCAGATTTTGGC<br>CATTAATGACACCCCATTGGATCAGAATATTTCCCATCAGCAGGCGATTGCATTACTACAACAAGCCACT<br>GGATCTCTGCGGCTGGTTGTGGCCAGGGAAGTGGGCCACACACAGGGCCGAGCATCCACCAGCTCAGCTG<br>ATACAACTCTGCCAGAAACGGTGTGTTGGGGCCACACGGAAGAGGTTGAGCTCATTAACGATGGCTCTGG<br>ATTAGGTTTTGGGATAGTTGGAGGGAAATCCAGCGGCGTGGTCGTGAGGACTATTGTTCCTGGAGGACTG<br>GCAGACCGAGATGGAAGACTGCAGACAGGGGATCACATCTTGAAGATTGGTGGTACAAATGTTCAAGGGA<br>TGACCAGTGAACAAGTTGCTCAAGTGCTAAGGAACTGTGGGAATTCAGTGAGGATGCTGGTGGCCAGAGA<br>CCCTGTTGGTGAAATTGCAGTAACACCTCCTACCCCTGTATCCTTACCTGTTGCCCTACCTGCTGTAGCC<br>ACAAGGACCCTTGATTCTGACAGGTCTCCTTTTGAAACTTACAGTGTTGAACTTGTTAAGAAAGATGGGC<br>AGAGTCTTGGGATTAGAATTGTTGGCTATGTTGGAACAGCTCATCCAGGGGAAGCTTCCGGGATTTATGT<br>GAAAAGTATAATTCCAGGCAGCGCTGCATACCACAATGGCCAAATTCAAGTGAATGATAAAATCGTGGCT<br>GTGGATGGTGTGAATATTCAAGGTTTTGCTAATCAGGATGTTGTCGAAGTATTGCGGAATGCTGGGCAGG<br>TGGTACACCTGACCCTTGTTCGAAGGAAAACATCTTTATCTGCTTCTCCGTTTGAGCACTCTTCAAGCAG<br>AGAAACTGTTGCAGAACCACCTAAAGTACCAGAACGAGCAGGATCCCCGAAACCAGAAGCTAATTTGAGT<br>GTGGAAGCAGAGGAAATTGGAGAAAGACTGGATAATCTAAAAAACAACACTGTACAAGCCTTAGAAAAAC |



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ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_172696

**Insert Size:** 5505 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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_172696.2, NP_766284.2

**RefSeq Size:** 7305 bp

**RefSeq ORF:** 5505 bp

**Locus ID:** 12695

**UniProt ID:** Q63ZW7

**Cytogenetics:** 4 C6

**Gene Summary:** This gene encodes a multivalent PDZ domain protein, which is expressed exclusively in brain and kidney. This protein selectively interacts with inward rectifier K+ (Kir) family members, N-methyl-D-aspartate receptor subunits, neurexins and neuroligins, as well as cell surface molecules enriched in synaptic membranes. Thus, this protein may serve as a scaffold that brings structurally diverse but functionally connected proteins into close proximity at the synapse. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).