

Product datasheet for **MC219692**

Patj (NM_007704) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Patj (NM_007704) 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



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Fully Sequenced ORF: >MC219692 representing NM_007704
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCACGGGGCTTCCAGAAAAGATCAGGCAAAGATATGCAGACCTGCCGGGAGAACTACACATTA
 TCGAACTGGAAAAGGACAAGAATGGACTGGGGCTCAGTCTCGCTGCAATAAGGACAGGTCACGGATGAG
 CATCTTCGTGGTGGGATTAATCCGGAGGGACCTGCTGCTGCAGACGGACGGATGCGGATTGGAGACGAG
 CTGCTAGAGATAAAACAATCAGATTCTTTATGGAAGAAGTCATCAGAACGCATCTGCCATTATTAAGACTG
 CCCCACCAGGGTCAAACCTGGTTTTTATTAGAAACGAAGATGCAGTCAGTCAGATGGCCGTCGCTCCCTT
 CCCGGAGCTATCACATTCTCCATCGCTGTTGAGGATCTGGGTGGCACTGAACTTGTGAGTAGTGAAGAG
 GAGAGCAGTGTGGATGCTAAACACCTGCCTGAACCAGAAAAGCTCCAAACCGGAAGACCTGTCCAGGTGG
 TTGATGACAACATGGTGGCAGAGCAGCAGAAGGAATCGGAGTCACCTGACAGTGTGCTGCCAGATAAA
 ACAGCAGACATATCAACACAAGTCTCCTCCAGCTCGAAGATAGCCATCGTCACCGGCTCCATTGTGT
 CAGTCAGCACATGCAGAGCTCACAGGCTCTGGTAACTTCCAGGCTCCTCTCCAGTGGACCTGCTCCAC
 TCTCGGTGGACCTGCAACATGTCCCATCGTCCCTGGCCAGGAAATGATCATAGAAATATCCAAGGGACG
 CTCGGGCTCGGGCTCAGCATTGTTGGAGGAAAAGACACACCTTTGGATGCTATAGTTATCCATGAAGTC
 TATGAAGAAGGTGCAGCTGCCAGAGATGGAAGATTATGGGCTGGAGACCAGATATTAGAGGTTAATGGGG
 TTGATCTCGGGAGCTCCAGCCATGAAGAAGCCATCACAGCCCTGAGGCAGACCCCCAGAAGGTGCGGCT
 GGTGGTATACAGAGATGAAGCACAGTACAGAGACGAGGAGAAGTGGAGGTGTTCTTGTGGACCTGCAG
 AAGAAGACTGGCCGAGGACTAGGCCTGAGCATTGTTGGGAAACGGAGTGGAAAGTGGAGTGTATTTCTG
 ACATTGTGAAAGCGGGGCCGACACTCGATGGGAGGTTAATTGAGGAGACCAGATCTGTCTGTGAA
 TGGAGAGGACATGAGACACGCCCTCACAGGAGACAGTGGCCACCATCCTGAAGTGTGTCCAGGGCCTTGT
 CAGCTGGAGATTGGGAGACTCCGCGCCGGTTCCTGGGCCCTCTCGGAAGACCTCGCAGAACAGCCAGG
 GGGATCAGCACAGTGCACACAGCAGCTGTGCGCCTTCCTTTGCCCCAGTCATCACCAGCTACAAAACT
 GGTTGGCACAAAAAGATCTTCAGATCCTCCACAGAAATGCACAGAGGAGGAACCAAGGACTGTAGAGATA
 ATCAGAGAGCTCAGCGATGCCCTTGGGATCAGTATCGCTGGAGGAAAAGGGAGTCTTTAGGAGATATCC
 CCATATTTATTGCCATGATTCAGGCCAACGGAGTGGCCGCACGGACCCAGAAGCTTAAGGTTGGAGATCG
 GATTGTGAGCATTAAATGGACAACCTCTGGATGGACTGTCTCACACAGATGCCGTTAATCTACTGAAGAAT
 GCCTTCGGGCGCATTATCCTGCAGGTTGTGGCAGATACCAACATAAGTGCATAGCGACCCAGCTGGAAA
 TCATGTCTGCAGGCTCCAGCTTGGCTCTCCGACTGCTGACCGACATCCGGAAGACACAGAGGAGCAGAT
 GCAGAGGACGGCTGATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_007704

Insert Size: 1839 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_007704.2](#), [NP_031730.1](#)

RefSeq Size: 3855 bp

RefSeq ORF: 1839 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 (3) lacks multiple 5' exons but has an alternate 5' exon, as compared to variant 1. The encoded isoform (3) has a much shorter and distinct N-terminus, as compared to isoform 1.