

Product datasheet for **MR222868**

Patj (NM_001005787) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Patj (NM_001005787) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR222868 representing NM_001005787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCCACGGGGCTTCCAGAAAAGATCAGGCAAAGATATGCAGACCTGCCGGGAGAACTACACATTA
 TCGAACTGGAAAAGGACAAGAATGGACTGGGGCTCAGTCTCGCTGCAATAAGGACAGGTCACGGATGAG
 CATCTTCGTGGTGGGATTAATCCGGAGGGACCTGCTGCTGCAGACGGACGGATGCGGATTGGAGACGAG
 CTGCTAGAGATAAAACAATCAGATTCTTTATGGAAGAAGTCATCAGAACGCATCTGCCATTATTAAGACTG
 CCCCACCAGGGTCAAACCTGGTTTTTATTAGAAACGAAGATGCAGTCAGTCAGATGGCCGTCGCTCCCTT
 CCCGGAGCTATCACATTCTCCATCGCTGTTGAGGATCTGGTGGCACTGAACTTGTGAGTAGTGAAGAG
 GAGAGCAGTGTGGATGCTAAACACCTGCCTGAACCAGAAAGCTCAAACCGGAAGACCTGTCCAGGTGG
 TTGATGACAACATGGTGGCAGAGCAGCAGAAGGAATCGGAGTCACCTGACAGTGTGCTGCCAGATAAA
 ACAGCAGACATATTCAACACAAGTCTCCTCCAGCTCGCAAGATAGCCCATCGTCACCGGCTCCATTGTGT
 CAGTCAGCACATGCAGAGCTCACAGGCTCTGGTAACTTCCAGGCTCCTCTCCAGTGGACCTGTCCAC
 TCTCGGTGGACCTGCAACATGTCCCATCGTCCCTGGCCAGGAAATGATCATAGAAATATCCAAGGGACG
 CTCGGGCTCGGGCTCAGCATTGTTGGAGGAAAAGACACACCTTTGGATGCTATAGTTATCCATGAAGTC
 TATGAAGAAGGTGCAGCTGCCAGAGATGGAAGATTATGGGCTGGAGACCAGATATTAGAGGTTAATGGGG
 TTGATCTCGGAGCTCCAGCCATGAAGAAGCCATCACAGCCCTGAGGCAGACCCCCAGAAGGTGCGGCT
 GGTGGTATACAGAGATGAAGCACAGTACAGAGACGAGGAGAACTTGGAGGTGTTCTTGTGGACCTGCAG
 AAGAAGACTGGCCGAGGACTAGGCTGAGCATTGTTGGAAACGGAGTGAAGTGGAGTGTATTTCTG
 ACATTGTGAAAGCGGGCCGACACTCGATGGGAGGTTAATTCGAGGAGACCAGATCTGTCTGTGAA
 TGGAGAGGACATGAGACACGCTCACAGGAGACAGTGGCCACCATCCTGAAGTGTGTCCAGGGCCTTGTC
 CAGCTGGAGATTGGGAGACTCCGCGCGGTTCTGGGCCCTCTCGGAAGACCTCGCAGAACAGCCAGG
 GGGATCAGCACAGTGCACACAGCAGCTGTGCGCTTCTTTGCCAGTCATCACCCAGCTACAAAACT
 GGTGGCACAAAAAGATCTTCAGATCCTCCACAGAAATGCACAGAGGAGGAACCAAGGACTGTAGAGATA
 ATCAGAGAGCTCAGCGATGCCCTTGGGATCAGTATCGCTGGAGGAAAAGGGAGTCTTTAGGAGATACC
 CCATATTTATTGCCATGATTCAGGCCAACGGAGTGGCCGACGGACCCAGAAGCTTAAGGTTGGAGATCG
 GATTGTGAGCATTAAATGGACAACCTCTGGATGGACTGTCTCACACAGATGCCGTTAATCTACTGAAGAAT
 GCCTTCGGGCGCATTATCTGCAGGATTTTCGATCAATGGAGAACCAGCTGGCAGAGGCAGATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222868 representing NM_001005787
 Red=Cloning site Green=Tags(s)

MVHGGFPEKIRQRYADLPGLHIIIELEKDKNLGLSLAGNKDRSRMSIFVVGINPEGPAAADGRMRIGDE
 LLEINNQILYGRSHQNASAIKTA PTRVKLVFIRNEDAVSQMAVAPFPEL SHSPSPVEDLGGTELVSSEE
 ESSVDAKHLPEPESSKPEDLSQVDDNMVAEQKESESPDSAACQIKQTYSTQVSSSSQDSSPAPLCL
 QSAHADVTGSGNFQAPLPVDPAPLSVDPATCPVPGQEMIEISKGRSGLGLSIVGKDTPLDAIVIEV
 YEEGAAARDGRLWAGDQILEVNGVDLRSSSHEEAITALRQTPQKVRLVYRDEAQYRDEENLEVFLVDLQ
 KKTGRGLGLSIVGKRSGSGVFI SDIVKGAADLDGRLIRGDQILSVNGEDMRHASQETVATILKCVQGLV
 QLEIGRLRAGSWAASRKTSQNSQGDQHSASHSSCRPSFAPVITSLQNLVGTKRSSDPPQKCTEEEPRTVEI
 IRELSDALGISIAGGKGSPLGDIPIFIAMIQANGVAARTQKLVGDRIVSINGQPLDGLSHTDAVNLLKN
 AFGRIILQVFRSMENQLAEADK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001005787.1 , NP_001005787.1
RefSeq Size:	2898 bp
RefSeq ORF:	1749 bp
Locus ID:	12695
UniProt ID:	Q63ZW7
Cytogenetics:	4 C6
MW:	62.8 kDa
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, neuroligins 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]