

Product datasheet for **MG222868**

Patj (NM_001005787) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Patj (NM_001005787) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Patj
Synonyms:	C; Cipp; I; Inadl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222868 representing NM_001005787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCCACGGGGCTTCCAGAAAAGATCAGGCAAAGATATGCAGACCTGCCGGGAGAACTACACATTA
 TCGAACTGGAAAAGGACAAGAATGGACTGGGGCTCAGTCTCGCTGCAATAAGGACAGGTCACGGATGAG
 CATCTTCGTGGTGGGATTAATCCGGAGGGACCTGCTGCTGCAGACGGACGGATGCGGATTTGGAGACGAG
 CTGCTAGAGATAAAACAATCAGATTCTTTATGGAAGAAGTCATCAGAACGCATCTGCCATTATTAAGACTG
 CCCCACCCAGGGTCAAACCTGGTTTTTATTAGAAACGAAGATGCAGTCAGTCAGATGGCCGTCGCTCCCTT
 CCCGGAGCTATCACATTCTCCATCGCTGTTGAGGATCTGGTGGCACTGAACTTGTGAGTAGTGAAGAG
 GAGAGCAGTGTGGATGCTAAACACCTGCCTGAACCAGAAAAGCTCCAAACCGGAAGACCTGTCCAGGTGG
 TTGATGACAACATGGTGGCAGAGCAGCAGAAGGAATCGGAGTCACCTGACAGTGTGCTGCCAGATAAA
 ACAGCAGACATATTCAACACAAGTCTCCTCCAGCTCGCAAGATAGCCCATCGTCACCGGCTCCATTGTGT
 CAGTCAGCACATGCAGAGCTCACAGGCTCTGGTAACTTCCAGGCTCCTCTCCAGTGGACCTGTCCAC
 TCTCGGTGGACCTGCAACATGTCCCATCGTCCCTGGCCAGGAAATGATCATAGAAATATCCAAGGGACG
 CTCGGGCTCGGGCTCAGCATTGTTGGAGGAAAAGACACACCTTTGGATGCTATAGTTATCCATGAAGTC
 TATGAAGAAGGTGCAGCTGCCAGAGATGGAAGATTATGGGCTGGAGACCAGATATTAGAGGTTAATGGGG
 TTGATCTGCGGAGCTCCAGCCATGAAGAAGCCATCACAGCCCTGAGGCAGACCCCCAGAAAGGTGCGGCT
 GGTGGTATACAGAGATGAAGCACAGTACAGAGACGAGGAGAACTTGGAGGTGTTCTTGTGGACCTGCAG
 AAGAAGACTGGCCGAGGACTAGGCTGAGCATTGTTGGAAACGGAGTGAAGTGGAGTGTTTATTTCTG
 ACATTGTGAAAGCGGGGCCAGACCTCGATGGGAGGTTAATTCGAGGAGACCAGATCTGTCTGTGAA
 TGGAGAGGACATGAGACACGCCCTCACAGGAGACAGTGGCCACCATCCTGAAGTGTGTCCAGGGCCTTGTC
 CAGCTGGAGATTGGGAGACTCCGCGCGGTTTCTGGGCCCTCTCGGAAGACCTCGCAGAACAGCCAGG
 GGGATCAGCACAGTGCACACAGCAGCTGTGCGCCTTCTTTGCCCCAGTCATCACCCAGCTACAAAACT
 GGTTGGCACAAAAAGATCTTCAGATCCTCCACAGAAATGCACAGAGGAGGAACCAAGGACTGTAGAGATA
 ATCAGAGAGCTCAGCGATGCCCTTGGGATCAGTATCGCTGGAGGAAAAGGGAGTCTTTAGGAGATATCC
 CCATATTTATTGCCATGATTCAGGCCAACGGAGTGGCCGACGGACCCAGAAGCTTAAGGTTGGAGATCG
 GATTGTGAGCATTAAATGGACAACCTCTGGATGGACTGTCTCACACAGATGCCGTTAATCTACTGAAGAAT
 GCCTTCGGGCGCATTATCTGCAGGTATTCGATCAATGGAGAACCAGCTGGCAGAGGCAGATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222868 representing NM_001005787
 Red=Cloning site Green=Tags(s)

MVHGGFPEKIRQRYADLPGLHIIIELEKDKNGLGLSLAGNKDRSRMSIFVVGINPEGPAAADGRMRIGDE
 LLEINNQILYGRSHQNASAIKTAAPTRVKLVFIRNEDAVSQMAVAPFPELSPSPVEDLGGTELVSSEE
 ESSVDAKHLPEPESSKPEDLSQVVDNMVAEQKESSESPDSAACQIKQTYSTQVSSSSQDPSPPAPLC
 QSAHADVTGSGNFQAPLPVDPAPLSDPATCPIVPGQEMIIIEISKGRSGLGLSIVGGKDTPLDAIUIHEV
 YEEGAAARDGRLWAGDQILEVNGVDLRSSSHEEAITALRQTPQKVRLVYRDEAQYRDEENLEVFLVDLQ
 KKTGRGLGLSIVGKRSGSVFISDIVKGAADLDGRLIRGDQILSVNGEDMRHASQETVATILKCVQGLV
 QLEIGRLRAGSWAASRKTQNSQGDQSAHSSCRPSFAPVITSLQNLVGTKRSSDPPQKTEEPRTVEI
 IRELSDALGSIAGGKGSPLGDIPFIAMIQANGVAARTQKLVGDRIVSINGQPLDGLSHTDAVNLLKN
 AFGRIILQVFRSMENQLAEADK

TRTRPLE - GFP Tag - V

Restriction Sites:

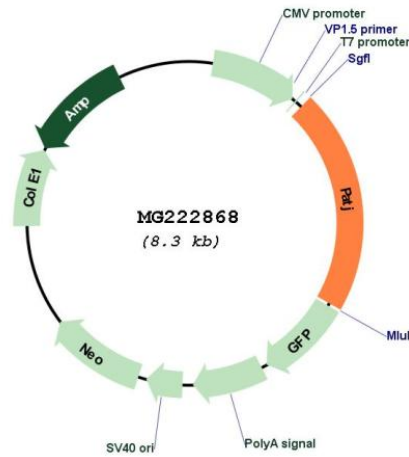
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001005787
 ORF Size: 1746 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:	NM_001005787.1 , NP_001005787.1
RefSeq Size:	2898 bp
RefSeq ORF:	1749 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, 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]