

Product datasheet for **MG222652**

Patj (NM_172696) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Patj (NM_172696) 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)
ORF Nucleotide Sequence:	>MG222652 representing NM_172696 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGAAAACCTGCTGCAGAGAAGATGCAGGTCTGCAGGTCTGGATCGCCTTCGAGGGAAGCTGC
AGGAGAAGGGAGACACGACGCAGAACGAGAAGCTGTCTGCGTTCTACGAGACGCTGAAGAGCCCTCTCTT
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ATGCCAAAGGCCTTGTAGTAATGTGACTGCATCTGAAGTGTTCCTGGACTCAAAAGTCAGCAAGTGA
AGACTTTAACTCAGTCATTCAGCAGATGGCTCAGGGCCGGCACGTTGAGTATATAGATATTGAACGTCTT
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GTGGAAGCAGAGGAAATTGGAGAAAGACTGGATAATCTAAAAACAACACTGTACAAGCCTTAGAAAAAC
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 GCCCATCGTCACCGGCTCCATTGTGTCAGTCAGCACATGCAGACGTCACAGGCTCTGGTAACTTCCAGGC
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 AAGTGCCATAGCGACCCAGCTGGAAATCATGTCTGCAGGCTCCAGCTTGGCTCTCCGACTGCTGACCGA
 CATCCGGAAGACACAGAGGAGCAGATGCAGAGGACGGCTGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222652 representing NM_172696
 Red=Cloning site Green=Tags(s)

MPENPAAEKMQVLQVLDRLRGKIQEKGDTTQNEKLSAFYETLKSPLFNQILTLQQSIKQLKGQLSHIPSD
 CSANFDFSRKGLLVFTDGSITNGNAQRPCSNVTASELLPWTQKSASEDFNSVIQQMAQGRHVEYIDIERP
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 GSLRLVVAREVGHQTQGRASTSSADTTLPETVCWGHTTEVELINDGSLGFGIVGGKSSGVVVRTIVPGGL
 ADRDRLQTDGHIKIGGTNVQGMTSEQVAQVLRNCGNSVRMLVARDPVGEIAVTPPTPVSPLVALPAVA
 TRTLDSRSPFETYSVELVKKDQSLGIRIVGVYVTAHPGEASGIYVKSIIIPGSAAYHNGQIQVNDKIVA
 VDGVNIQGFANQDVVEVLRNAGQVHLLVRRKTSLSASPFHSSSRETVAEPPKVPERAGSPKPEANLS
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 RGDQILSVNGEDMRHASQETVATILKCVQGLVQLEIGRLRAGSAAASRKTSONSQDQHSASHSSCRPSFA
 PVITSLQNLVGTKRSSDPPQKCTEEEPRTVEIIRELSDALGISIAGGKGSPLGDIPFIAMIQANGVAAR
 TQKLVGDRIVSINGQPLDGLSHTDAVNLLKNAFGRIILQVVADTNI SAIATQLEIMSAGSQLGSPTADR
 HPEDTEEQMRTAD

TRTRPLE – GFP Tag – V

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_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, neuexins 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]