

Product datasheet for **MR222654**

Patj (NM_007704) Mouse Tagged ORF Clone

Product data:

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

>MR222654 representing NM_007704
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCCACGGGGCTTCCAGAAAAGATCAGGCAAAGATATGCAGACCTGCCGGGAGAACTACACATTA
 TCGAACTGAAAAAGGACAAGAATGGACTGGGGCTCAGTCTCGCTGCAATAAGGACAGGTCACGGATGAG
 CATCTTCGTGGTGGGATTAATCCGGAGGGACCTGCTGCTGCAGACGGACGGATGCGGATTGGAGACGAG
 CTGCTAGAGATAAAACAATCAGATTCTTTATGGAAGAAGTCATCAGAACGCATCTGCCATTATTAAGACTG
 CCCCACCAGGGTCAAACCTGGTTTTTATTAGAAACGAAGATGCAGTCAGTCAGATGGCCGTCGCTCCCTT
 CCCGGAGCTATCACATTCTCCATCGCTGTTGAGGATCTGGTGGCACTGAACTTGTGAGTAGTGAAGAG
 GAGAGCAGTGTGGATGCTAAACACCTGCCTGAACCAGAAAGCTCCAAACCGAAGACCTGTCCAGGTGG
 TTGATGACAACATGGTGGCAGAGCAGCAGAAGGAATCGGAGTCACCTGACAGTGTGCTGCCAGATAAA
 ACAGCAGACATATCAACACAAGTCTCCTCCAGCTCGAAGATAGCCCATCGTCACCGGCTCCATTGTGT
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 TCTCGGTGGACCTGCAACATGTCCCATCGTCCCTGGCCAGGAAATGATCATAGAAATATCCAAGGGACG
 CTCGGGCTCGGGCTCAGCATTGTTGGAGGAAAAGACACACCTTTGGATGCTATAGTTATCCATGAAGTC
 TATGAAGAAGGTGCAGCTGCCAGAGATGGAAGATTATGGGCTGGAGACCAGATATTAGAGGTTAATGGGG
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 CCATATTTATTGCCATGATTCAGGCCAACGGAGTGGCCGACGGACCCAGAAGCTTAAGGTTGGAGATCG
 GATTGTGAGCATTAAATGGACAACCTCTGGATGGACTGTCTCACACAGATGCCGTTAATCTACTGAAGAAT
 GCCTTCGGGCGCATTATCCTGCAGGTTGTGGCAGATACCAACATAAGTGCATAGCGACCCAGCTGGAAA
 TCATGTCTGCAGGCTCCAGCTTGGCTCTCCGACTGCTGACCGACATCCGGAAGACACAGAGGAGCAGAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

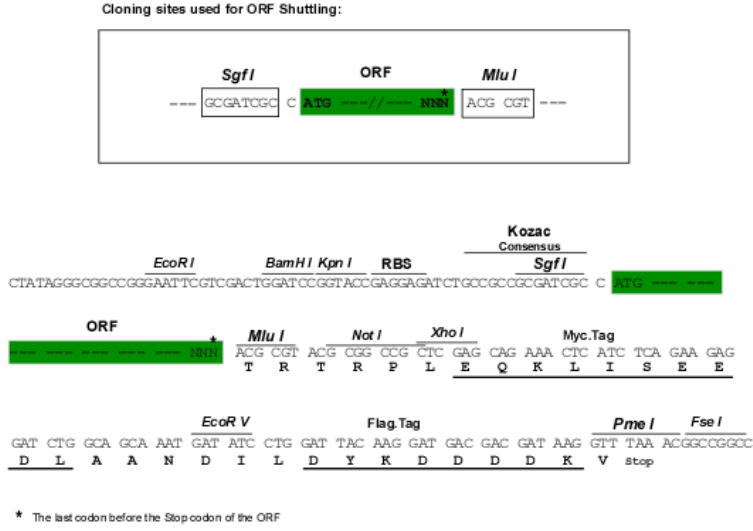
>MR222654 representing NM_007704
 Red=Cloning site Green=Tags(s)

MVHGGFPEKIRQRYADLPGELHIIIELEKDKNGLGLSLAGNKDRSRMSIFVVGINPEGPAAADGRMRIGDE
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 ESSVDAKHLPEPESSKPEDLSQVVDDNMVAEQKQKESSESPDSAACQIKQTYSTQVSSSSQDSSPAPLC
 QSAHADVTGSGNFQAPLPVDPAPLSVDPATCPIVPGQEMIIIEISKGRSGLGLSIVGGKDTPLDAIVIHEV
 YEEGAARDGRLWAGDQILEVNGVDLRSSSHEEAITALRQTPQKVRLVYRDEAQYRDEENLEVLVDLQ
 KKTGRGLGLSIVGKRSGSVFISDIVKGAADLDGRLIRGDQILSVNGEDMRHASQETVATILKCVQGLV
 QLEIGRLRAGSWAASRKTSONSQGDQSAHSSCRPSFAPVITSLQNLVGTKRSSDPPQKCTEEEPRTVEI
 IRELSDALGSIAGGKGSPLGDIPFIAMIQANGVAARTQKLVGDRIVSINGQPLDGLSHTDAVNLLKN
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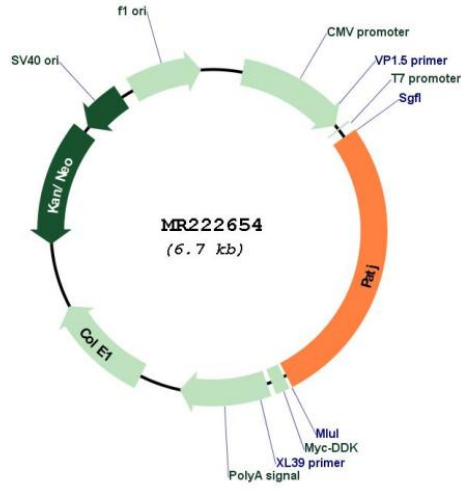
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007704

ORF Size: 1836 bp

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| 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_007704.2 , NP_031730.1 |
| RefSeq Size: | 3855 bp |
| RefSeq ORF: | 1839 bp |
| Locus ID: | 12695 |
| UniProt ID: | Q63ZW7 |
| Cytogenetics: | 4 C6 |
| MW: | 65.9 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] |