

## Product datasheet for **MG222656**

### **Patj (NM\_001005784) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Patj (NM_001005784) 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:

>MG222656 representing NM\_001005784  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTGAAAACCTGCTGCAGAGAAGATGCAGGTCTGCAGGTCTGGATCGCCTTCGAGGGAAGCTGC  
 AGGAGAAGGGAGACACGACGCAGAACGAGAAGCTGTCTGCGTTCTACGAGACGCTGAAGAGCCCTCTCTT  
 CAACCAGATCCTTACACTGCAGCAGTCCATCAAGCAGCTGAAGGGACAGCTTAGCCACATCCCCTCAGAT  
 TGCTCAGCCAACCTTGTACTTTTCTCGAAGGGCTTGTAGTGTTCACGGATGGTTCATTACAAACGGGA  
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 AGACTTAACTCAGTCATTCAGCAGATGGCTCAGGGCCGGCACGTTGAGTATATAGATATTGAACGTCTCT  
 TCAACTGGAGGCCTTGGATTCAAGTGTGGTCTGAGAAGCCAAAGCCTGGGATTAATTGATATCTTTG  
 TGAAGGAAGTCCATCCCGGAGTGTAGCAGACAGGGATCACAGATTGAAGGAAAATGACCAGATTTTGGC  
 CATTAAATGACACCCCATGGATCAGAATATTTCCCATCAGCAGGGGATTGCATTACTACAACAAGCCACT  
 GGATCTCTGCGGCTGGTTGTGGCCAGGGAAGTGGGCCACACAGGGCCGAGCATCCACCAGCTCAGCTG  
 ATACAACCTCTGCCAGAAACGGTGTGTTGGGGCCACACGGAAGAGGTTGAGCTCATTAAACGATGGCTCTGG  
 ATTAGGTTTTGGGATAGTTGGAGGGAAATCCAGCGGCGTGGTCTGAGGACTATTGTTCTGGAGGACTG  
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 CAAAAAGACGTGGACAGCAGCTCGGAAGCTTGGGAAATGCATGAGTTCCTGAGTCTCCGCTGGACGGCA  
 GGGGTGAGGAGAGAGATGCTTGTGATGAGGAGTATGAACTTTATCAAGATCACCTCCGGCCATGGA  
 GTCAAACCCACCACCACACATTCCGGAGGCCGCTCCTGCATCTCCCGTGTGAACTCCAGGCTGGT  
 ACACAGTGGCTGCATGCTAACCTCTCAGGAGGCCGAAAGGCTGGAGTGTACAGATGCAGAGTCCATGATGA  
 GTGCCATCCCCAGGAGATGCAGCAGTATAGCTACAGCACTGCAGACATGGTACGGCTTTGCGACACAGC  
 CACCACCTGCTCCCGCTCTGCCCCACACCCCTCGCTCATGTTACTTCCATTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222656 representing NM\_001005784  
 Red=Cloning site Green=Tags(s)

MPENPAAEKMQVLQVLDRLRGKLEKGDTTQNEKLSAFYETLKSPLFNQILTLQQSIKQLKGQLSHIPSD  
 CSANFDFSRKGLLVFTDGSITNGNAQRPCSNVTASELLPWTQKSASEDFNSVIQQMAQGRHVEYIDIERP  
 STGGLGFVVALRSQSLGLIDIFVKEVHPGSAVDRDRHLKENDQILAINDTPLDQNIHQQAIALLLQAT  
 GSLRLVAREVGHGTQGRASTSSADTTLPETVVCWGHTTEVELINDGSGLFGFIVGGKSSGVVVRTIVPGGL  
 ADRDGRQLTGDHILKIGGTNVQGMTSEQVAQVLRNCGNSVRMLVARDPVGEIAVTPPTPVSLPVALPAVA  
 TRTLDSDRSPFETYSVELVKKDGQSLGIRIVGYVGTAPHPGEASGIYVKSIIIPGSAAYHNGQIQVNDKIVA  
 VDGVNIQGFANQDVVEVLRNAGQVVHLTLVRRKTSLSASPFHSSSRETVAEPPKVPERAGSPKPEANLS  
 VEAEIEIGERLDNLKNNTVQALEKPDVYPEKVPSPENELKSRWENLLGPDYEVMTALDAQIADDEELQK  
 YSKLLPIHTLRLGMEVDSFDGHHYISSVAPGGPVDLNLQPEDELLEVNGMQLYKGSRRREAVSFLKEVP  
 PPFTLVCCRRLFDEASVDEPRTMEPALLEAVDHSVDVNIEDDDDGELALWSPEVKTVELVKDCKGLGF  
 SILDYQDPLDPTRSVIVIRSLVADGVAERSGELLPGDRLVSVNEFSLDNATLAEAVEVLKAVPPGVVHLG  
 ICKPLVEDEKEERFSLHSNNNGDSSEPADAVHEIHSSLILEAPQGRDEPYLEELVDEPFLDLGKSLQFQ  
 QKDVDSSSEAWEMHEFLSPPLDGRGEERMLVDEEYELYQDHLRAMESNPPPHIREAAPSPVLELQAG  
 TQWLHANLSGGERLECHDAESMMSAYPQEMQQYSYSTADMVRLCDTATTCSPLCPHTPRSCYFHS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

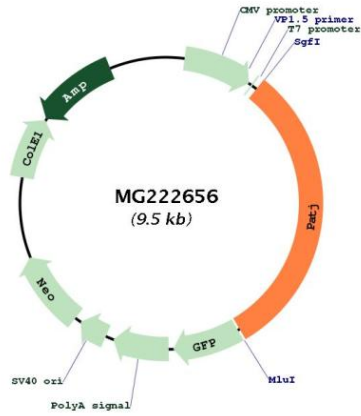


ACCN: NM\_001005784

ORF Size: 2925 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001005784.1</a> , <a href="#">NP_001005784.1</a>
<b>RefSeq Size:</b>	3335 bp
<b>RefSeq ORF:</b>	2928 bp
<b>Locus ID:</b>	12695
<b>UniProt ID:</b>	<a href="#">Q63ZW7</a>
<b>Cytogenetics:</b>	4 C6
<b>Gene Summary:</b>	This gene encodes a multivalent PDZ domain protein, which is expressed exclusively in brain and kidney. This protein selectively interacts with inward rectifier K <sup>+</sup> (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]

Product images:



Circular map for MG222656