

## Product datasheet for **MC220902**

### **Pja2 (NM\_001025309) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pja2 (NM_001025309) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pja2
Synonyms:	AI447901; AL022700; mKIAA0438; Neurodap1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC220902 representing NM\_001025309  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCACAGTACACTGAAAAAGAGCCATCAGTAATGGATCAAGAATCCAGCAAGGCTGCTTGGCCTAAAC  
 CAGCAGGAGGATATCAGACTATCACAGGCAGGAGATATGGAAGAAGACATGCGTATGTCAGTTTTAAGCC  
 ATGTATGACCAGGCATGAAAGAAGCTTGGGTCGGGCTGGTATGACTATGAAGTGTGGAACTAGACGAT  
 GTTCCAAAGGAGAACACCTCAGGTTCCAGTTCATTGGATCAAGTCCATCCTGCTTTACCAAATGAACCTA  
 CAGTTGAAAAAGTGAACAGAAATTTCTACTTGGTCCAGCACTGAATCAAAGCACTGAGAGCAGTCC  
 ATCCATTGCCACAGTATGTCATAGTGAGGAAGTCAGGGAGACCTAGAAAAGCAATACAAACCTTCATAAT  
 CGCACTGAGACAGAGCATACTCCAGCAGTTTGAATGTCTCAAGTGTCCAGAATGGAATTATGTTGGTTC  
 ATACTGACTCTTATGATCCAGACAGCAAGCATGATGAGAATGGCTCTTCAACTGGCGCTGAAGCTGT  
 GGAAGGTGGTAGACATCAGAAGGGTTAGGCCGTGCAGTCTTTGAGCTGGAAAATGGAGAGGCAGAGATC  
 TACGCTGACCTGTCAACATCAGTCCCCTCTCTCAACGGTAAAATAGTGAGGCGTTTTGAAGAGCTAGATT  
 CAGCACCTTTAGAGAAAAGTTCTACTGCCGATGCTGAGCTTGCCATCAGAATGGCAGGAATTTACAGAG  
 GTCTTCTGAAGATGGCGTTGTTAGAAAAGAGGCGACAAGACGATACTGATCAGGGAAGACAGACAGAAAAT  
 TCAACTGAAGATGCAGACTGTGCTCCAGGCCATGTTGAGCAAAAATACTAGTGATAGAGCCAAACCACATG  
 GAAGTTCTCCTGAACAGGTAGTAAGGCCAAAAGTTAGAAAAGTGATAAGTTCAAGCCAGGTGGACCAAGA  
 AATTGGTTTTAATAGGCACGAGGCTAAGCAGAGAAGCGTTCAGAGATGGAGAGAGGCTTTGGAAGTGGAG  
 GAGTGCAGTTCAGATGACCCTATAATAAGTGTGACGATTATGATGGAGACCACGACTGCATGTTCTCTAA  
 CTCCAACCTACTCAAGAGTTACACAAAGGGAGACAGAACCGAATCGTGTAAATCAGAAAATGGAGCTAC  
 AGCTTCAGGACGGCAAGAATCTCGGACAATGCCTTTTTGGAATGCCTGCGGAGAGTATTACCAACTCTTT  
 GACAAAGATGAAGACAGTTCAGAGTGCAGTGTGGGAATGGTCTGCTTCTGCTCACCATTCTGCTG  
 GCACAGAAAAGACCAGTCTCAAGCGATGACAGCTGGGAACTCTGCCAGGAAAGGATGAGAATGACCC  
 TGAGCTGCAGAGTGATAGTAGTGGCCCCGAGGAAGAAAACCAAGAGTTGTCTCTCAGGAGGGGGAACAG  
 ACATCCTTGAAGAGGGGAGAGATCCCTTGGTTACAGTACAATGAGGTCAATGAGAGCAGCAGCGATGAAG  
 GGAATGAGCCTGCCAATGAGTTTGCACAGCCGGAAGCTTTCATGTTGGATGGGAACAACAACCTTGAGGA  
 CGACTCGAGCGTGAAGACTTGGATGTGGACTGGAGCCTGTTGATGGTTTTGCAGACGGACTTGA  
 GTTGCTGAAGCTATTTCTTATGTGGATCCTCAGTTCCTTACCTACATGGCACTAGAAGAGCGCTTAGCCC  
 AGGCTATGGAGACTGCGCTGGCACAATTTAGAGTCCCTTGCAGTAGACGTTGAGGTGGCCAATCCACCTGC  
 CAGTAAGGAAAGCATTGATGGGCTTCCAGAGACTCTGGTTCTAGAGGACCACACCGCCATCGGCCAGGAG  
 CAGTGTGCTCCCATCTGCTGCAGCGAGTACATCAAGGATGACATTGCCACAGAGCTGCCTTGCCATCACT  
 TCTTTCAAGCCCTGTGTCTCCATCTGGCTACAGAAGTCCGGAACATGCCCTGTGTGCCCGCTCACTT  
 CCCACCTGCAGTATTGACGCATCTGCAGCTGCTTCTGACCTGACCTGATGCCTCGCTGCAAAAT  
 GACAATGCTGAAGAAGCCCCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001025309  
**Insert Size:** 2124 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<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>	<u>NM_001025309.1, NP_001020480.1</u>
<b>RefSeq Size:</b>	4706 bp
<b>RefSeq ORF:</b>	2124 bp
<b>Locus ID:</b>	224938
<b>UniProt ID:</b>	<u>Q80U04</u>
<b>Cytogenetics:</b>	17 E1.1
<b>Gene Summary:</b>	<p>Has E2-dependent E3 ubiquitin-protein ligase activity. Responsible for ubiquitination of cAMP-dependent protein kinase type I and type II-alpha/beta regulatory subunits and for targeting them for proteasomal degradation. Essential for PKA-mediated long-term memory processes. Through the ubiquitination of MFHAS1, positively regulates the TLR2 signaling pathway that leads to the activation of the downstream p38 and JNK MAP kinases and promotes the polarization of macrophages toward the pro-inflammatory M1 phenotype.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a).</p>