

Product datasheet for **MC220119**

Pja2 (NM_144859) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pja2 (NM_144859) 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: >MC220119 representing NM_144859
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCACAGTACACTGAAAAAGAGCCATCAGTAATGGATCAAGAATCCAGCAAGGCTGCTTGGCCTAAAC
 CAGCAGGAGGATATCAGACTATCACAGGCAGGAGATATGGAAGAAGACATGCGTATGTCAGTTTTAAGCC
 ATGTATGACCAGGCATGAAAGAAGCTTGGGTCGGGCTGGTATGACTATGAAGTGTGGAAGTACAGCAGT
 GTTCCAAAGGAGAACACCTCAGGTTCCAGTTCATTGGATCAAGTCCATCTGCTTTACCAAATGAACCTA
 CAGTTGAAAAAGTGAACAGAAATTTCTACTTGGTCCAGCACTGAATCAAAGCACTGAGAGCAGTCC
 ATCCATTGCCACAGTATGTCATAGTGAGGAAGTCAAGGAGACCTAGAAAAGCAATACAAACCTTCATAAT
 CGCACTGAGACAGAGCATACTCCAGCAGTTTGAATGTCTCAAGTGTCCAGAATGGAATTATGTTGGTTC
 ATACTGACTCTTATGATCCAGACAGCAAGCATGATGAGAATGGCTCTTCAACTGGCGCTGAAGCTGT
 GGAAGGTGGTAGACATCAGAAGGGGTTAGGCCGTGCAGTCTTTGAGCTGGAAAATGGAGAGGCAGAGATC
 TAGCCTGACCTGTCAACATCAGTCCCCTCTCTCAACGGTAAAATAGTGAGGCGTTTGAAGAGCTAGATT
 CAGCACCTTTAGAGAAAAGTTCTACTGCCGATGCTGAGCTTGCCATCAGAATGGCAGGAATTTACAGAG
 GTCTTCTGAAGATGGCGTTGTTAGAAAAGAGGCGACAAGACGATACTGATCAGGGAAGACAGACAGAAAAT
 TCAACTGAAGATGCAGACTGTGCTCCAGGCCATGTTGAGCAAAAATACTAGTGATAGAGCCAAACCACATG
 GAAGTTCTCCTGAACAGGTAGTAAGGCCAAAAGTTAGAAAAGTGATAAGTTCAAGCCAGGTGGACCAAGA
 AATTGGTTTTAATAGGCACGAGGCTAAGCAGAGAAGCGTTCAGAGATGGAGAGAGGCTTTGGAAGTGGAG
 GAGTGCAGTTCAGATGACCCTATAATAAAGTGTGACGATTATGATGGAGACCACGACTGCATGTTCTTAA
 CTCCAACCTACTCAAGAGTTACACAAAGGGAGACAGAACGGAATCGTGTAAACATCAGAAAATGGAGCTAC
 AGCTTCAGGACGGCAAGAATCTCGGGACAATGCCTTTTGAATGCCTGCGGAGAGATTACCAACTCTTT
 GACAAAGATGAAGACAGGGAACAGACATCCTTGGAAAGAGGGAGAGATCCCTTGGTTACAGTACAATGAGG
 TCAATGAGAGCAGCAGCGATGAAGGGAATGAGCCTGCCAATGAGTTTGCACAGCCGGAAGCTTTCATGTT
 GGATGGGAACAACAACCTTGGAGCAGCTCGAGCGTGAAGACTTGGATGTGGACTGGAGCCTGTTT
 GATGGTTTTGCAGACGGACTTGGAGTTGCTGAAGCTATTTCTTATGTGGATCCTCAGTTCCTTACCTACA
 TGGCACTAGAAGAGCGCTTAGCCCAGGCTATGGAGACTGCGCTGGCACATTTAGAGTCCCTTGCAGTAGA
 CGTTGAGGTGGCCAACTCCACCTGCCAGTAAGGAAAGCATTGATGGGCTTCCAGAGACTCTGGTTCTAGAG
 GACCACACGCCATCGGCCAGGAGCAGTGTGCCATCTGCTGCAGCGAGTACATCAAGGATGACATTG
 CCACAGAGCTGCCTTGCATCACTTCTTTCATAAGCCCTGTGTCTCCATCTGGCTACAGAAGTCCGGAAC
 ATGCCCTGTGTGCCCGCCGCTCACTTCCCACCTGCAGTTATTGACGCATCTGCAGCTGCTTCTCTGACCT
 GACCCTGATGCCTCGCCTGCAAAATGACAATGCTGAAGAAGCCCCA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_144859
- Insert Size:** 1938 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).
- 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:

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_144859.2](#), [NP_659108.1](#)

RefSeq Size: 4520 bp

RefSeq ORF: 1938 bp

Locus ID: 224938

UniProt ID: [Q80U04](#)

Cytogenetics: 17 E1.1

Gene Summary: 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]

Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment, compared to isoform a.