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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC220119 representing NM_144859
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCACAGTACACTGAAAAAGAGCCATCAGTAATGGATCAAGAATCCAGCAAGGCTGCTTGGCCTAAAC
CAGCAGGAGGATATCAGACTATCACAGGCAGGAGATATGGAAGAAGACATGCGTATGTCAGTTTTAAGCC
ATGTATGACCAGGCATGAAAGAAGCTTGGGTCGGGCTGGTGATGACTATGAAGTGTTGGAACTAGACGAT
GTTCCAAAGGAGAACACCTCAGGTTCCAGTTCATTGGATCAAGTCCATCCTGCTTTACCAAATGAACCTA
CAGTTGAAAAAAGTGAAACAGAAATTTCTACTTGTGGTCCAGCACTGAATCAAAGCACTGAGAGCAGTCC
ATCCATTGCCACAGTATGTCATAGTGAGGAAGTCAGGGAGACCTTAGAAAGCAATACAAACCTTCATAAT
CGCACTGAGACAGAGCATACTCCAGCAGTTTGTAATGTCTCAAGTGTCCAGAATGGAATTATGTTGGTTC
ATACTGACTCTTATGATCCAGACAGCAAGCATGATGAGAATGGCTCTCTTCAACTTGGCGCTGAAGCTGT
GGAAGGTGGTAGACATCAGAAGGGGTTAGGCCGTGCAGTCTTTGAGCTGGAAAATGGAGAGGCAGAGATC
TACGCTGACCTGTCACCATCAGTCCCCTCTCTCAACGGTGAAATAAGTGAGGCGTTTGAAGAGCTAGATT
CAGCACCTTTAGAGAAAAGTTCTACTGCCGATGCTGAGCTTGTCCATCAGAATGGGCAGGAATTTCAGAG
GTCTTCTGAAGATGGCGTTGTTAGAAAGAGGCGACAAGACGATACTGATCAGGGAAGACAGACAGAAAAT
TCAACTGAAGATGCAGACTGTGCTCCAGGCCATGTTGAGCAAAATACTAGTGATAGAGCCAACCACCATG
GAAGTTCTCCTGAACAGGTAGTAAGGCCCAAAGTTAGAAAAGTGATAAGTTCAAGCCAGGTGGACCAAGA
AATTGGTTTTAATAGGCACGAGGCTAAGCAGAGAAGCGTTCAGAGATGGAGAGAGGCTTTGGAAGTGGAG
GAGTGCAGTTCAGATGACCCTATAATAAAGTGTGACGATTATGATGGAGACCACGACTGCATGTTCCTAA
CTCCAACTTACTCAAGAGTTACACAAAGGGAGACAGAACGGAATCGTGTAACATCAGAAAATGGAGCTAC
AGCTTCAGGACGGCAAGAATCTCGGGACAATGCCTTTTGGAATGCCTGCGGAGAGTATTACCAACTCTTT
GACAAAGATGAAGACAGGGAACAGACATCCTTGGAAGAGGGAGAGATCCCTTGGTTACAGTACAATGAGG
TCAATGAGAGCAGCAGCGATGAAGGGAATGAGCCTGCCAATGAGTTTGCACAGCCGGAAGCTTTCATGTT
GGATGGGAACAACAACCTTGAGGACGACTCGAGCGTGAGTGAAGACTTGGATGTGGACTGGAGCCTGTTT
GATGGTTTTGCAGACGGACTTGGAGTTGCTGAAGCTATTTCTTATGTGGATCCTCAGTTCCTTACCTACA
TGGCACTAGAAGAGCGCTTAGCCCAGGCTATGGAGACTGCGCTGGCACATTTAGAGTCCCTTGCAGTAGA
CGTTGAGGTGGCCAATCCACCTGCCAGTAAGGAAAGCATTGATGGGCTTCCAGAGACTCTGGTTCTAGAG
GACCACACCGCCATCGGCCAGGAGCAGTGCTGTCCCATCTGCTGCAGCGAGTACATCAAGGATGACATTG
CCACAGAGCTGCCTTGCCATCACTTCTTTCATAAGCCCTGTGTCTCCATCTGGCTACAGAAGTCCGGAAC
ATGCCCTGTGTGCCGCCGTCACTTCCCACCTGCAGTTATTGACGCATCTGCAGCTGCTTCCTCTGACCCT
GACCCTGATGCCTCGCCTGCAAATGACAATGCTGAAGAAGCCCCATAA

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).

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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.

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