

## Product datasheet for **SC126706**

### **PJA2 (NM\_014819) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PJA2 (NM_014819) Human Untagged Clone
Tag:	Tag Free
Symbol:	PJA2
Synonyms:	Neurodap1; RNF131
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126706 sequence for NM\_014819 edited (data generated by NextGen Sequencing)

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ATGTCACAGTACACTGAAAAGGAGCCAGCAGCAATGGACCAAGAATCTGGTAAGGCTGTC
TGGCCCAAACCAGCAGGAGGGTATCAGACAATTACAGGCAGGAGATATGGAAGAAGACAT
GCTTATGTCAGTTTTAAACCATGTATGACCAGACATGAAAAGAAGCTTAGTTCGGGCTGGT
GATGACTATGAAGTGTGGAAGTATGATGATGTTCCAAAGGAAAAATCCTCAGGTTCCAGT
CGTTTGGATCAAGTTGATTCTTCTTTACCCAGTGAACCTATATTTGAAAAAAGTAAAACA
GAAATCCCACTTGTGGTTCAGCATTGAATCAAACCACTGAGAGCAGTCAATCCTTTGTT
GCAGTACATCACAGTGAAGGAGGAGGATACCTTAGGAAGCAGTACAAATCTTCATAAT
CACTCTGAGGGAGAGTATATTCCAGGAGCTTGTAGTGCTTCAAGTGCCAAAATGGAATT
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AGTTCTGTGGTGATACTGAGTTTGTCCATCAGAATAGCCAGGAAATTCAGAGGCTTCTC
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CATTACCTGAAGATGCAGCCTGTGGTCCAGGGCATATTTGTAGTGAAACAAAATACCAAT
GATAGGGAAAAGAACCATGGAAGTTCTCCTGAACAGGTAGTGAGGCCAAAAGTTAGAAAA
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TCAAGAGTTATTACACAAAGGGAACAGAAAATAACCAAATGACATCAGAAAAGTGGAGCC
ACAGCAGGAAGGCAAGAAGTGGATAACACCTTTTGGAAATGGCTGTGGAGATTATTACCAA
CTCTATGACAAAAGATGAAGATAGTTCTGAATGCAGTGATGGGGAATGGTCTGCTTCTTG
CCTCATCGATTTTCTGGTACAGAAAAAGATCAATCCTCAAGTGATGAAAGCTGGGAGACT
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GAAAACCAAGAATTATCTCTTCAGGAAGGGGAACAGACATCCTTGGAAAGAGGGAGAAAT
CCTTGGTTACAGTACAATGAAGTCAATGAAAGCAGCAGTGATGAGGGAATGAACCTGCC
AATGAATTTGCACAGCCAGCTTTCATGTTGGATGGTAACAATAACCTGGAGGATGACTCC
AGTGTGAGTGAAGACTTAGATGTGGATTGGAGCCTATTTGATGGCTTTCAGATGGACTA
GGAGTTGCTGAAGCTATTTTCATATGTGGATCCTCAGTTCTTACCTACATGGCACTAGAA
GAACGCTTAGCCAGGCTATGGAGACTGCTCTGGCCATTTAGAGTCTCTTGCAGTGGAT
GTTGAGGTGGCCAAATCCACCAGCTAGTAAGGAAAGCATTGATGGTCTTCCAGAGACCTT
GTTCTTGAAGATCACACTGCTATTGGTCAGGAACAATGCTGTCCAATCTGTTGCAGTGAG
TATATTAAGGATGATATAGCAACAGAGTTGCCCTGTCCACATTTCTTTCAAAACCTTGT
GTCTCAATTTGGCTACAAAAGTCGGGAACATGCCCTGTGTGCCCGCTCATTTCCACCT
GCGGTTATTGAAGCATCTGCAGCTCCTTCTGAGCCTGATCCTGATGCCCCACCTTCA
AATGACAGTATTGCAGAAGCACCTAA
    
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Clone variation with respect to NM\_014819.4  
 1218 g=>a

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014819 unedited          GCCGCGAATTCGGCACCAGGCTTCGCGTTCGGCGGGGAGGAGTTGGAGGCGGAGAAGAA          GGCGGTGGTGGCGGGTGGAGGTTTCGAGCGCTGTTCTCGCTCCGGAGCCGCTGCACATTTT          GGAATCTTCTGCGGCTTGTCCATAGTGTGAATAAAAACTAAATCACATCTATAATTCTAC          TGAAGTGGTACACAGACGCTGCCATATATGTCACAGTACACTGAAAAGGAGCCAGCAGC          AATGGACCAAGAATCTGGTAAGGCTGTCTGGCCAAACCAGCAGGAGGGTATCAGACAAT          TACAGGCAGGAGATATGGAAGAAGACATGCTTATGTCAGTTTTAAACCATGTATGACCAG          ACATGAAAGAAGCTTAGGTCGGGCTGGTATGACTATGAAGTGTGGAAGTATGATGATGT          TCCAAAGGAAAATTCTCAGTTCAGTCTTTGGATCAAGTTGATTCTTCTTTACCCAG          TGAACCTATATTTGAAAAAGTGAACAGAAAATCCCACTTGTGGTTCAGCATTGAATCA          AACCACTGAGAGCAGTCAATCCTTTGTTGCAGTACATCACAGTGAAGGAGGAGGATAC          CTTAGGAAGCAGTACAAATCTTCATAATCACTCTGAGGGAGAGTATATCCAGGAGCTTG          TAGTGCTTCAAGTGTCAAATGGAATTGCATTGGTTCATACAGACTCTTATGATCCAGAT          GGGCAACATGGAGAAAGATAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014819 unedited          GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATT          TAAGCCAACCTTATTCAACTTTTCTTCTTACAGCAGCTGTTTATAGATAGTAGGGAGC          CAAGAATGAAGGACAGTAACAGATGGAAAGCAAAAAGTACAACAGCTATCTTAAGTTCAG          CTCTCAACATTGCTGGTTGAGTTTGGAAACCAAACCTCTTAACAACCTGGCAGATAATAGC          TAAATCTTAACAGACAAAAGAAGAAATATTTCTTTGGGACAGCTGCTATCTAAAAA          CCAAGGTCCTTAATATAGTCTAAATATAATGTGTGGCTTATTATAGAGAAATCTTTAGC          AACGTAAGTTAAACCAGTAAGTGTCAACACTGATCAACAGTACTTAAAAGGAAACAAACA          AAAATCACACTAGCCACAATTTCCACCATATACACATGAAATTAATTTAATCTGTTTT          GACTCCTTGACACTAACTGATCATTAAATGAAATATGATATGGAAAGATCACAGAGTAGAA          AACAAAGCAAGATTAGTTTATACAACAGTACTATATACATCAGAGGGAAACATGCTAG          CTAATGCAACATTAAGGCTGAATGTAAGCATTCCCAAGCCACAGAAGCCCAAGAAC          TCCTAAATTACAAATTCATCACATTACATGCATGCCATGTTCACTTTTGTTTACCCATA          AAGGGATACACCGATTTTGTCTGTAATACCCAGACCCCTNTACAATATATGCAAAAATT          AGCATCGAAGTGTGTTTCTTATTTTAAACCCTCTATTGGCCAACAGCGAAAAATTTA          TTCTTTTCAAAAATGAAAAGCGCACGGCTCTAACCTCTAAAAACACCCCATCAAAAAGACC          TTTGTTTTGGCAGACTATAAACTCTTTTTGTTCCCAACCATTTTCAGGCCACCCAAACGC          ACACCCCTCGGGTTAACTTACCCTGGCACAGGTCCCACGCCCTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014819
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).

**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\\_014819.2](#), [NP\\_055634.2](#)

**RefSeq Size:** 4789 bp

**RefSeq ORF:** 2127 bp

**Locus ID:** 9867

**UniProt ID:** [O43164](#)

**Cytogenetics:** 5q21.3

**Domains:** RING

**Protein Families:** Druggable Genome

**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 (PubMed:28471450).[UniProtKB/Swiss-Prot Function]