

## Product datasheet for **RN206019**

### **Npas2 (NM\_001108214) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npas2 (NM_001108214) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Npas2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN206019 representing NM\_001108214  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGAAGATGAGAAGGATAGAGCAAAGAGAGCCTCTCGAAACAAGTCTGAGAAGAAGCGTCGGGACC  
 AGTTCAATGTTCTCATCAAAGAGCTCAGCTCCATGCTCCCAGGCAACACTCGGAAACTGGACAAAACAAC  
 TGTGCTGGAGAAGGTCATCGGATTTCTGCAGAAACACAATGAAGTCTCAGCACAACAGAAATCTGTGAC  
 ATCCAGCAGGACTGGAAGCCTTCATTCCTCAGTAACGAAGAATTCACCCAGCTGATGTTGGAGCGTTAG  
 ATGGCTTCGTCATTGTTGTGACAACGGACGGCAGCATCATCTATGTGTCCGACAGCATCACGCCCTCCT  
 CGGACATTTACCGTCGGATGTATGGATCAGAACTTGTTAAATTTCTTCCAGAACAAGAATTCGGAA  
 GTTTATAAAATCCTTTCTCCATATGCTTGTGACGGATCCCCCTCCCAAGATTCCTAAAATCTGACA  
 ACGATTTAGAGTTTTATTGTCATCTTCTGAGAGGCAGCTTGAACCCAAAGGAATTTCCAACCTACGAATA  
 CATAAAATTTGTAGGAAATTTTCGCTCTTACAACAATGTGCCTAGCCCCCTCTGTAATGGCTTTGACAAC  
 ACCCTTTCAAGACCTGCGCGTCCCCCTGGGGAAGGAGGTCTGCTTCATCGCCACGGTGCGCCCTGGCAA  
 CACCACAGTTCTTAAAGGAAATGTGTAGCTGACGAACCTTTAGAGGAATTCACCTTCGAGGCATAGCTT  
 GGAATGGAAATTTTATTTCTGGATCACAGAGCCCTCCAATCATAGGATACCTGCCCTTTGAAGTACTT  
 GGCACGTCAGGCTATGACTACTACCACATTGATGACCTGGAGCTCCTGGCCAGGTGCCACCAGCACTTGA  
 TGCAGTTTGGCAAAGGGAAGTCGTGTTGTTACCGGTTTCTAACCAAGGACAGCAGTGGATTTGGTTGCA  
 AACCCACTACTACATCACCTACCACAGTGAACCTCAAGCCCGAGTTCATCGTGTGCACACACTCGGTG  
 GTCAGTTACGCAGATGTCGAGTGGAAAGGAGACAGGAGCTGGCTCTGGAAGATCCACCCACAGAGCCA  
 TGCACCCCTCTGCCTGAAGGAAAAGGACTCAAGCCTAGAGCCTCAGCCGCACTTAAATGCACTTGACAT  
 GGGTGCCTCAGGTCTTACCAGCAGTCTTCGCCATCAGCATCCTCGAGGAGTTCACACAAGTCTCACAC  
 ACAGCCATGTCAGAACCCACCTCCTCAACCAAGCTGATGGCTGAGAACAGCACCACAGCTTTGCCAA  
 GATCAGCCACCCTACCCAGGAGTTACCAGTGCAGGGGCTCAGCCAGGCAGCCACAATGCCAGCTCCTCT  
 GCTTCTCATCATCCTGTGACCTTGCCAAGCAGCTCCTGCCTCAGTCCCTGCCTCAGACGGTCTGACG  
 AGTCCACCTGCTCCAGTGACACAGTTTTTTCAGCACAATTTAGCATGTTCCAGACCAAAAAGACCAGTTGG  
 AGCAGAGGACACGGATCCTGCAGGCCAACATTCGGTGGCAGCAGGAAGAGCTTACAAGATCCAGGAACA  
 ACTCTGCCTGGTCCAGGACTCCAACGTCCAGATGTTTCTACAGCAGCCAGCGGTGTCTCTGAGCTTCAGC  
 GGTGCCCAGAGACCGGCAGCTCAGCAGCCACTGCAACAAAGGCCATCTGCACCGTCTCAGCCCCGCTTG  
 TGGTCAACACTCCACTGCGGGGAGATCACATCCACCCAAGTCAAAACCAGCAGCTGCTCAGAGAATC  
 GAATGTGATGTCCGCCAGGGTCCAAAACAATAAGAAGCTCCAGTTGCTGCCTGCCAGCAGCCGTTCA  
 CTGAGCAGCCTGCCGTCCAGTTTCAGCAGCACAGCGTCCGTGCTCCCACCAGGCCAGCCTCACCACTG  
 TCGCTCCCACCCCTCAGGACACCAGCCAGTGCCAGCCAGCCCTGACTTCGGCCATGATCGGCAGCTCAG  
 GCTGTTGCTGAGCCAACCCATCCAGCCTATGATGCCTGGGTCTTGTGATGCCAGGCAGCCCTCAGAAATC  
 AGCAGGACTGGACGGCAAGTCAAATATGCACAGAGCCAAGTGACGTTTCCAAGTCTGACTCCCACCCCA  
 CCAGCAGCAGCGCCCCACCCGGTCTGTTGATGGGGCAGGCCGTGCTCCATCCCGCTTCCCCGCATC  
 CCAGCCATCACCCCTGCAACCAACACAGGTACAACAGCAGCCACCACCCTATCTACAGGCCAACACATCT  
 CTGCACAGTGAACAGCCGACTCGCTCCTTCTCTCCACCTTCTCCAGCAGCCAGCACCTCTGGGCTATG  
 CAGCCACACAGCCTACACAGCCGAACCCACGCCCTTCCCGCAGGGTACGCCGCTGTGAGAGTCTTA  
 A

**ACGGCT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001108214  
**Insert Size:** 2451 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).
<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><a href="#">NM_001108214.2</a></u> , <u><a href="#">NP_001101684.2</a></u>
<b>RefSeq Size:</b>	4273 bp
<b>RefSeq ORF:</b>	2451 bp
<b>Locus ID:</b>	316351
<b>Cytogenetics:</b>	9q22
<b>Gene Summary:</b>	The protein encoded by this gene is a member of the basic helix-loop-helix (bHLH)-PAS family of transcription factors. A similar mouse protein may play a regulatory role in the acquisition of specific types of memory. It also may function as a part of a molecular clock operative in the mammalian forebrain. [provided by RefSeq, Feb 2014]