

Product datasheet for **MC219392**

Npas1 (NM_008718) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npas1 (NM_008718) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Npas1
Synonyms:	bHLHe11; MOP5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219392 representing NM_008718
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACCCCTATCCCAGAAGCGGTGGCCGAGGTGAAGTCAAGTGCAGGGGGCGGCCGTGGAGCCGGCG
 TCCCTGGGATTTCTGCCTGGGCTGATGGTCAAGGCCCGCCCGGACCTGCCTGCAGGCGCAGCGCAA
 AGAGAAGTCCCGCAACGCTGCGCGCTGGCGACGCGGGAAGGAAAATCTGGAGTTCTTCGAGCTAGCCAAG
 CTGCTCCCTCTGCCCGGTGCCATCTCCAGCCAGCTGGACAAGGCGTCCATCGTGGCTTCTAGCGTACCT
 ACCTCCGCTGCGTCGTTTTGCCGCGTGGGGCGCCGCCCTGGGGTTGCGGGCCGTGGGCTCCGGC
 TGGCTCGCCCCAGGCCCGGAGCCCTGTGGCTCTGGTCTCTGAAGTCTTCGAGCAACACCTAGGTGGA
 CACATCTACAGTCTTGGATGGCTTCGTGTTGCTTTGAACCAGGAAGGAAAATTTCTCTACATCTCAG
 AGACAGTGTCCATCTACCTGGTCTCTCACAGGTGGAGCTGACGGGCAGCAGCGTCTTCGACTACATCCA
 TCCTGGGACCACTCGGAGGTCTAGAGCAACTGGATTGCGGGTGAAGCATCGTCCCCTACACCA
 CCTCCGTGTCTCTCTCTCATCGTCTTCTCCTCGTGGTGGACACCCCTGAGATTGAAGCCAGCC
 CCACCGAGGCATCGCTGCCTTCCGAGCCCAAGAGCGGTCTTCTTTGTCCGCATGAAGTCCACCCTCAC
 CAAGAGGGGCTGAATGTCAAAGCCTCGGGGTACAAGGTCATTATGTGACAGGGCGCCTGAGGGCCCGA
 GCCCTGGGTCTTGTAGCCCTTGGACACACGCTGCCCCAGCCCCACTGGCTGAGCTGCCTTTGCACGGAC
 ACATGATTGTCTCCGCCTCAGCCTGGGCTCACCATCTTGTGTGAGAGCAGAGTTAGCGACCATAT
 GGACATGGGGCCCTCAGAGCTTGTGGGACGAGCTGTACCAGTTTGTTCATGGACAGGATGCAACCAGG
 ATCCGCCAAAGCCATCTGGACCTGCTGGACAAAGGCGAGTGGTACTGGTACTACCGTTGGCTGCAGC
 GTGCGGGGGCTTCGTGTGGCTGCAGTCTGTAGCCACTGTGGCCGGGAACGGGAAGAGCACTGGGGAGCA
 TCACGTGCTGTGGGTGAGTACGTCAGCAATGCTGAAGGTAGTCAAACACCCCTGGATGCCTTCCAG
 CTTCAGCTATTGTGTCTCAGGAGGAGCCATCCAGGCCAGGCCAGAGCCACAGAGGAAGAGCCTCCAG
 TTGACGGGAAGCAGGCTGTGCCTGCGGACCAGGACAAGGACAAGGACCCTCAGGCCCGAGGCAAACGCAT
 CAAAGTGGAGGCCAGCCGAAGGAAGCTAGAGGCTCAGAGGACAGTGGAGAAGAGGAGCTCTCGGATCCA
 CCGGCTCCACCTCGGCCAGAATTCATTCTGTATCCGGGCGGGAGCCCTGAAGCATGATCCAGTGTGC
 CGTGGGGCTTGACAACCTCCGGAGACCCCTCACCCGCCCTCTTCATGCAGGCTTCTGCCACCCGTTGT
 GCGGGGCTGTGACACCCAGGCACCATCCGCTATGGCCCTGCGGAGTTGAGCCTGATGTATCCACATCTG
 CACAGGCTGGGCGCAGGCCCTCGTTCAGAGGCCTTTACCCTACGCTGGGCTTGCCTATCCGGGGC
 CCACAGGTAAGGTTGACGCGGAAGGGAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_008718
- Insert Size:** 1785 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_008718.2](#), [NP_032744.1](#)

RefSeq Size: 2091 bp

RefSeq ORF: 1785 bp

Locus ID: 18142

UniProt ID: [P97459](#)

Cytogenetics: 7 9.14 cM

Gene Summary: May control regulatory pathways relevant to schizophrenia and to psychotic illness. May play a role in late central nervous system development by modulating EPO expression in response to cellular oxygen level. Forms a heterodimer that binds core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) leading to transcriptional repression on its target gene TH (PubMed:27782878).[UniProtKB/Swiss-Prot Function]