

Product datasheet for **MR222175**

Npas1 (NM_008718) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR222175 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGACCCCTATCCCAGAAGCGGTGGCCGAGGTGAAGTCAAGTGCAGGGGCGGCCGTGGAGCCGGCG
 TCCCTGGGATTTCTGCCTGGGCTGATGGTCAAGGCCCGCCCGACCTGCCTGCAGGCGCAGCGCAA
 AGAGAAGTCCCGCAACGCTGCGCGCTGGCGACGCGGGAAGGAAATCTGGAGTTCTTCGAGCTAGCCAAG
 CTGCTCCCTCTGCCCCTGCCATCTCCAGCCAGCTGGACAAGGCGTCCATCGTGCCTTACGCTCACCT
 ACCTCCGCTGCGTCTTTGCCGCGTGGGGCGCCGCCCTGGGGTTGCGGGCGTCGGGCTCCGGC
 TGGCTCGCCCCAGGCCCGGAGGCCCTGTGGCTCTGGTCTCTGAAGTCTTCGAGCAACCTAGGTGGA
 CACATCTACAGTCTTGGATGGCTTCGTGTCGCTTTGAACCAGGAAGGAAATTTCTCTACATCTCAG
 AGACAGTGTCCATCTACCTGGGCTCTCACAGGTGGAGCTGACGGGCAGCAGCGTCTTCGACTACATCCA
 TCCTGGGACCACTCGGAGGTCTAGAGCAACTTGGATTGCGGGCTGCAAGCATCGGTCCCCTACACCA
 CCTTCCGTGTCTCTCTTCTCATCGTCTTCTCTCGCTGGTGACACCCCTGAGATTGAAGCCAGCC
 CCACCGAGGCATCGCCTGCCTTCCGAGCCCAAGAGCGGTCTTCTTTGTCCGCATGAAGTCCACCTCAC
 CAAGAGGGGCTGAATGTCAAAGCCTCGGGGTACAAGGTCATTATGTGACAGGGCGCCTGAGGGCCCGA
 GCCCTGGGTCTTGTAGCCCTTGGACACAGCTGCCCCAGCCCCACTGGCTGAGCTGCCTTTGCACGGAC
 ACATGATTGTCTCCGCCTCAGCCTGGGCTCACCATCTTGTGTGAGAGCAGAGTTAGCGACCATAT
 GGACATGGGGCCCTCAGAGCTTGTGGGACGAGCTGTACCAAGTTGTTTCATGGACAGGATGCAACCAGG
 ATCCGCCAAAGCCATCTGACCTGCTGGACAAAGGCGAGGTGGTACTGGTTACTACCGTTGGCTGCAGC
 GTGCGGGGGCTTCGTGTGGCTGCAGTCTGTAGCACTGTGGCCGGAACGGGAAGAGCACTGGGAGCA
 TCACGTGCTGTGGGTGAGTCAGTGTCTCAGCAATGCTGAAGGTAGTCAAACACCCCTGGATGCCTTCCAG
 CTTCCAGCTATTGTGTCTCAGGAGGAGCATCCAGGCCAGGCCAGGCCACAGAGGAAGAGCCTCCAG
 TTGACGGGAAGCAGGCTGTGCCTGCGGACCAGGACAAGGACAAGGACCCTCAGGCCCGAGGCAAACGCAT
 CAAAGTGGAGGCCAGCCGAAGGAAGCTAGAGGCTCAGAGGACAGTGGAGAAGAGGAGCTCTCGGATCCA
 CCGGCTCCACCTCGGCCAGAATTCATTCTGTCTCCGGCGGGAGCCCTGAAGCATGATCCAGTGTGC
 CGTGGGGCTTGACAACTCCCGGAGACCCCTACCCGCCCTCTTCATGCAGGCTTCTGCCACCCGTTGT
 GCGGGGCTGTGACCCAGGCACCATCCGCTATGGCCCTGCGGAGTTGAGCCTGATGTATCCACATCTG
 CACAGGCTGGGCGCAGGCCCTCGCTTCCAGAGGCTTTTACCCTACGCTGGGCTTGCCTATCCGGGGC
 CCACAGGTACTAGGTTGACGCGAAGGGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222175 protein sequence
 Red=Cloning site Green=Tags(s)

MATPYPRSGRGEVKCGGGRGAGVPWDFLPGLMVKAPPGPCLQAQRKEKSRNAARWRRGKENLEFFELAK
 LLPLPGAISSQLDKASIVRLSVTYLRLRRFAALGAPPWGLRAVGPPAGLAPGRRGPVALVSEVFEQHLGG
 HILQSLDGFVFALNQEKGFLYISETVSIYGLSQVELTGSSVFDYIHPGDHSEVLEQLGLRAASIGPPTP
 PSVSSSSSSSSSLVDTPEIEASPTASPAFRAQERSFFVRMKSTLTKRGLNVKASGYKVIHVTGRLRAR
 ALGLVALGHTLPPAPLAELPLHGMIIVFRLSLGLTILACESRVSDHMDMGPSELVGRSCYQFVHQDATR
 IRQSHLDLLDKGQVVTGYRWLQRAGGFVWLQSVATVAGNGKSTGEHHVLWVSHVLSNAEGSQTPDAFQ
 LPAIVSQEESRPGPEPTTEEPPVDGKQAVPADQDKDQPAQARGKRIKVEASPKEARGSEDSGEEELSDP
 PAPPRPEFTSVIRAGALKHDPVLPWGLTTPGDPSPALLHAGFLPPVVRGLCTPGTIRYGPaelSLMYPHL
 HRLGAGPSLPEAFYPTLGLPYPGPTGTRVQRKGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_008718

ORF Size: 1782 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008718.2](#), [NP_032744.1](#)

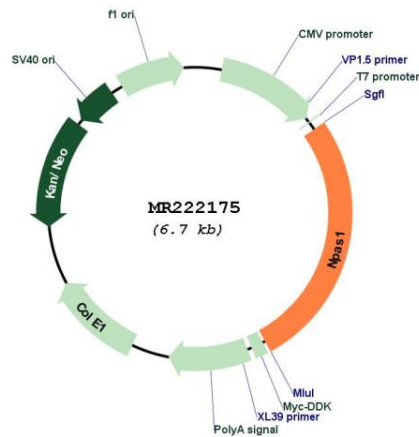
RefSeq Size: 2091 bp

RefSeq ORF: 1785 bp

Locus ID: 18142

UniProt ID:	<u>P97459</u>
Cytogenetics:	7 9.14 cM
MW:	63.7 kDa
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]

Product images:



Circular map for MR222175