

Product datasheet for **SC309735**

NPAS3 (NM_022123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPAS3 (NM_022123) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPAS3
Synonyms:	bHLHe12; MOP6; PASD6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_022123, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCCACCAAGCCAGCTTTCAGCAGGATCCTTCCAGGCGAGAACGTTTACAAGCATTGAGAAAGG
AGAAATCCCGAGATGCTGCTCGCTCCC GCCGGGAAAAGAAAACCTTGTAGTTCTATGAATTGGCCAAGTT
GTTGCCTCTTCTGCAGCCATTACCAGCCAGCTCGACAAGGCATCCATCATTGACTTACAATTAGCTAT
CTGAAAAATGAGGGACTTTGCTAACCAGGGGACCCTCCGTGGAACCTTGGCAATGGAAGGCCCTCCACCTA
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ACTATGTCCACCCCGGAGATCACGTGGAGATGGCTGAGCAGCTGGGCATGAAGCTCCCCCTGGGCGGGG
TCTCTGTACAGGGCACTGCTGAGGACGGAGCCAGCTCAGCATTTCTCTCTCAGTCGGAGACCCCC
GAGCCAGTGGAGTCAACCAGCCCAGTCTGCTAACCAGTACAACACTCTTGAGCGTTCTTTTTTATCC
GAATGAAATCTACTCTGACCAAACGCGGTGTGCACATCAAATCATCAGGATATAAGTGATTACATAAC
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GTTGTTGCGCATGCCTTGCTCCCCCTACGATCAATGAAGTCAGAATTGACTGCCATATGTTCTGCTACTC
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CCCCAACAGTGCCTCGGTGCTCAAGATCAAGACGGAGATCTCAGAACCCTCAATTTGACAATGACAGC
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CCAGCTCTGAGCACTTCCCGTCCCCGCAGGGCGGGCGGGTGGGGTGGCGGTGGCGGGGGCTGCACGT
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CGGGACCATCCGCTACGCGCCCGGAGGTGACCTGGCCATGCAGAGCAACCTGCTGCCAACGCGCA
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AGATGCCCGCGCAACGTGTTACCACGGCCGAGGGACTCTTCTCCACGCTGCCCTTCCCGTCTACAG
CAACGGCATCCACGCGGCACAGACTCTGGAGCGCAAGGAGGACTGA
    
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Restriction Sites: Please inquire
ACCN: NM_022123
Insert Size: 2700 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_022123.1.
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:	<ol style="list-style-type: none">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:	<u>NM_022123.1</u> , <u>NP_071406.1</u>
RefSeq Size:	5843 bp
RefSeq ORF:	2706 bp
Locus ID:	64067
UniProt ID:	<u>Q8IXF0</u>
Cytogenetics:	14q13.1
Domains:	PAS, HLH
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a member of the basic helix-loop-helix and PAS domain-containing family of transcription factors. The encoded protein is localized to the nucleus and may regulate genes involved in neurogenesis. Chromosomal abnormalities that affect the coding potential of this gene are associated with schizophrenia and cognitive disability. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>