

Product datasheet for **SC306790**

NPAS3 (NM_173159) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPAS3 (NM_173159) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPAS3
Synonyms:	bHLHe12; MOP6; PASD6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_173159 edited
 ATGGCGCCACCAAGCCAGCTTTCAGCAGGATCCTTCCAGGCGAGAACGTTTACAAGCA
 TTGAGAAAGGAGAAATCCCGAGATGCTGCTCGCTCCCGCCGGGAAAAGAAAACCTTTGAG
 TTCTATGAATTGGCCAAGTTGTTGCCTCTTCTGCAGCCATTACCAGCCAGCTCGACAAG
 GCATCCATCATTGACTTACAATTAGCTATCTGAAAATGAGGGACTTTGCTAACCAGGGG
 GACCCCTCGTGGAACTTGCGAATGGAAGGCCCTCCACCTAACACATCAGTAAAAGGGATA
 CAAATGTGGAAATCTGAACTCTGCATGAGAAAGACACCATGTGAAGGTGCACAGCGAAG
 AGAAGCCCCAGTGCACTAGCCATTGAAGTATTTGAAGCACATTTGGGAAGCCACATTTTG
 CAGTCCCTGGATGGCTTTGTATTTGCACTAAATCAGGAAGGAAAAATTTTGTACATTTCC
 GAAACAGTCTCCATCTACCTAGGCCTCTACAAGTGGAGCTGACAGGCAGCAGTGTCTTT
 GACTATGTCCACCCCGGAGATCACGTGGAGATGGCTGAGCAGCTGGGCATGAAGTCCCC
 CCTGGGCGGGTCTCCTGTACAGGGCACTGCTGAGGACGGAGCCAGCTCAGCATCTTCC
 TCCTCTCAGTCGGAGACCCCGAGCCAGTGGAGTCAACCAGCCCCAGTCTGCTAACCCT
 GACAACACTCTTGAGCGTTCCTTTTTCATCCGAATGAAATCTACTCTGACCAAACGCGGT
 GTGCACATCAAATCATCAGGATATAAGGTGATTACATAACAGGCGGGCTACGCCTGAGA
 GTGTGCTGTCCACGGGAGGACCGTCCCAGCCAAATCATGGGTCTCGTGGTGTGTGGC
 CATGCCTTGCTCCCTACGATCAATGAAGTCAGAATTGACTGCCATATGTTCTGCACT
 CGAGTAAATATGGACCTCAATATCATTTACTGTGAAAATAGGATTAGTGATTATATGGAT
 CTGACCCCTGTAGATATCGTAGGGAAGAGATGCTACCCTTATCCATGCTGAAGACGTG
 GAGGGCATCAGGCACAGTCACTTGGACTTGCTGAATAAGGGTCAGTGTGTGACAAAGTAC
 TATCGTGGATGCAGAAGAACGGAGGATATATTTGGATACAGTCCAGTCCACCATTAGCT
 ATTAATGCCAAGAATGCAAAATGAAAAGAATATCATCTGGGTGAATTACCTTCTTAGCAAT
 CCTGAGTACAAGGACACACCCATGGACATCGCACAGCTCCCCATCTGCCGGAGAAAAC
 TCCGAATCCTCGAGACATCCGACTCTGAGTCAGACTCTAAAGACACCTCAGAGGACAAC
 GAGAACTCCAAGTCCGACGAGAAGGGGAACAGTCCGAGAACAGCGAAGCCCGGAGCCC
 GACCGGAAGAAGTCCGGCAACGCGTGTGACAACGACATGAACTGCAACGACGACGCGCCAC
 AGCTCCAGTAACCCGGACAGCCGCGACAGCGACAGCTTCGAGCACTCGGACTTTGAG
 AACCCCAAGGCGGGGAGGACGGCTTCGGTGTCTGGGCGCGATGCAGATCAAGGTGGAG
 CGCTACGTGGAGAGCGAGTCCGACCTGCGGCTGCAGAAGTGCAGTCACTCACGTCGGAC
 AGCGCCAAGGACTCGGACAGCGCAGGCGAGGCGGGCGCGCAGGCCCTCAGCAAGCACCAG
 AAGCGCAAGAAAAGGCGGAAACGGCAAAAAGGGCGCGCAGCGCCAGCCGCGCGCCTGTCC
 AGCGCGTCCGAGCCAGGCGGCCTGGACGCGGGCCTGGTGGAGCCCCCGCGCTGTGTCC
 TCCCCAACAGTGCCTCGGTGCTCAAGATCAAGACGGAGATCTCAGAACCATCAATTTT
 GACAATGACAGCAGCATCTGAACTACCCGCCAACCGGGAGATCTCCAGGAACGAGTCC
 CCCTACAGCATGACCAAGCCCCCAGCTCTGAGCACTTCCCGTCCCCGCAGGGCGGGCGG
 GGTGGGGTGGCGGTGGCGGGGGTGCACGTGGCCATTTCCGACTCGGTCTCACCCCG
 CCCGGCGCGACGGCGCGGCCCGCCGAAGACTCAGTTCGGCGCCTCGGCCACCGCGGCC
 CTGGCCCCGTCGCTCCGACCCGCTGTACCCCCGCTCTGGCGTCCCCGCGGGAACAG
 CACCCCGGAACGGCGGGCGGGGGCGGGGGCGGGCGCGCGGGGGGGCGGGCGGCC
 AGCGCGTCCAACCTTGTGTACTGACTGGGACCTGGAGGCGCTGCAGAGGTTGCAGGCG
 GGCAACGTCTGTCTCCGCTGGTGCACAGGGTACCAGGGACCTGGCCGCCACCAGCAG
 GCCGCGCAGAGGGTCTACACCAGGGCACCATCCGCTACGCGCCCGGAGGTGACCCTG
 GCCATGCAGAGCAACCTGCTGCCAACGCGCACGCTGTTAACTTCGTGGACGTTAACAGC
 CCCGGCTTTGGCTCGACCCCAAGACGCCCATGGAGATGCTCTACCACCAGTGCACCGG
 CTCAACATGTGAGGACCGTTCCGGCGCGCAGTGAAGCGAGCTAGCCTGACGCAGATGCC
 GCCGGCAACGTGTTACCAACGGCCGAGGGACTCTTCTCCAGCTGCCCTCCCCGTCTAC
 AGCAACGGCATCCACGCGCACAGACTCTGGAGCGCAAGGAGGACTGA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_173159 unedited TGTATACGACTACTATAGGGCGGCCGCGATTTCGGCACGAGGCCGCGCCGGGCATGCCTC GGGAGCCGGGGCGGCCCGGGCCGCGGGCGCTCTGCGGGCGCATGGACGGCGGGCGGCCGG GCGAGCAGCGGGAGGAGAAGGCGCAGGCCGGCGGGAAGCGGGACCCACGGCTGGGAGC ACGGCGGCGCGAGGGGACGGCCGGCCCGCCGAGGCTCCGGCCCCACTACTTTTCCGT AGCCTCCCCACCTCAGCAGCACGGCCGCGCCGCGCCGCGCCGCCGCCACGGCCACGGCACGG CCACGGCCCCGGCCACCGCCCGCGGGCAGCCAGAGCGCCGCGCACGGCCGCACCTCTCC CGCCACCCACGCACACGCACACCCCGCCCGCCAGCCCGCCACCCCGGAGGGGGAG AGAGGCCAAAAAGTAAGAGAGGAATAAAAAATAGCAGGAAGATGGCGCCACCAAGCCAGC TTTCAGCAGGATTCTTCCATGCGAGAACGTTTACAAGCATTGAGAAAGGAGAAATCCCGA GATGCTGCTCGTCCCGCCGGGAAAAGAAAATTTGAGTTCTATGAATTGGCCAAGTTG TTGCTCTTCTGCAGCCATTACCACCCAGCTCGACAAGGCATCCATTATTGACTTACA ATTAGCTATCTTGAATGAGGGACTTTGCTTACCCTGGGGACTTTCGTGGAATTGCT AATGGAAGGCCCTCCACCTTAACCATTAGTTAAAAGGGATACACATTGTGGTATATTTCA ACTCTGCCTTTAAAACACCCAATGCGAAGTGTGTTAACCCGAAAGATAAGCCCCCTGC ATTTTCCCTGGCATCTTTGAAGCTCATTGTGAATCCACTTTTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_173159 unedited NGGGGCCATTGGNNGATGGCACTNCCAGGTCCAGNANAGCACTGGGGCAGGGTCACAGG GATGCCACCCGGGATCTGTTCCAGAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGT TTTTTTTTTTTTTTTTTTTTTACTTAATGTGCAGTTTTCAGTTGCAGTTATCTGTCTGAA GCTTATTAACCCATTCTTTAGTTTTAAACTTATTGGTTTCAACCCAGAAATAAGAACCA AAGGGAAAGAAATTCATCAAATCAAACAGTCCCCCAAATACAACCTTCTTTTTTGT TTAAGCAAGGAATGAAAAAACCAAAACATGTTAAATATTTCTTCTTTACTCCGAA GTGTTATTGAAGTTGCAAAATTAGCCTCAGTTAGACTGAGTAAGGAAAACAAAAGCTAA ACAAAAGGCAGTATGTACCTAACTGCTCCTCAAATCAGTTTGATTGAGTTTTCCAGCAG CCCCTTTAAAAGGGGCTTACTGACCCATTAATTTAATGTGAGGCTATGTTTGTAGTT GGGAGGTAAAAATTTAAGTCTGCAGCAAACGTTAATGAGGGCTTTGTCTTAATACTAAC CAAGGACTGCAGCAACGGACTCCAGACCAGGACAGAACACATTTTTTTTTTTTTCCCC AAAACCCAGCCAGGAGTGCATTTTGTATGAAGACATTACAGATTAATAATGATAGCA CCATGGTTTTAGAAATTAAGTAATGTTTCAGGTATTAACATTTAGTCCGACTTTTTTTTT TTTAAACATTCTAGTCCAGCCAGAAATAAGTTTTAGAACCAATTATTTTTATGGGCA AGTAAGAAAATTTAAAATCTTAACGTCAAAGAGATTTAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_173159
Insert Size:	4750 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:	There are two short (in-frame) deletions of 6bp and 9bp between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the deletions of 2 and 3 amino acids, respectively.
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:	NM_173159.1 , NP_775182.1
RefSeq Size:	2763 bp
RefSeq ORF:	2763 bp
Locus ID:	64067
UniProt ID:	Q8IXF0
Cytogenetics:	14q13.1
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 (3) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 3, 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>