

Product datasheet for **SC307237**

NPAS4 (NM_178864) Human Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | NPAS4 (NM_178864) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NPAS4 |
| Synonyms: | bHLHe79; Le-PAS; NXF; PASD10 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_178864 edited
 GGGGAAGCACGGAGGAGGAAGCCCGGTGCGTCGGGACGGGAGCGCAGGTGCTCGGGCA
 CCCGAGCTGGAGCTCCGACGCCGCGGTGATGTACCGCTCCACCAAGGGCGCCTCCAAGG
 CGCGCCGGGACCAGATCAACGCCGAGATCCGGAACCTCAAGGAGCTGCTGCCGTGGCCG
 AAGCGGACAAGGTCCGGCTGTCTACCTGCACATCATGAGCCTCGCCTGCATCTACACTC
 GCAAGGGCGTCTTCTTCGCTGGTGGCACTCCTTGCGGGGCCCCACGGGGCTTCTCTCAG
 CTCAAGAGCTTGAGGACATCGTAGCGGCACTACCCGGCTTCTGCTTGTGTTACACAGCCG
 AGGGGAAATTGCTCTACCTGTCTGAGAGTGTGAGCGAGCATCTGGGCCACTCCATGGTGG
 ACCTGGTTGCCAGGGTACAGCATCTACGACATCATTGACCCAGCTGACCACCTCACTG
 TGCGCCAGCAACTCACCTGCCCTGCGCTGGACTGATCGCCTCTTCCGCTGCCGCT
 TCAACACCTCCAAGTCCCTCAGGCGCCAGAGTGCAGGCAACAACTCGTGCTTATTCGAG
 GCCGATTCATGCTCACCCACTGGAGCCTACTGGGCAGGAAATCCCGTGTTCACAGCTT
 TCTGTGCCCTCTGGAGCCGAGACCCCGCCAGGTCTGGCCCTGGCCCTGGCCCTGCCT
 CGCTCTTCTGGCCATGTTCCAGAGCCGCATGCTAAAGACCTGGCTCTACTGGACATCT
 CCGAGAGTGTCTAATCTACCTGGGCTTGGAGCGCAGTGAAGTCTTGTAAATCATGGT
 ATGGACTGCTGCACCCGAGGACCTGGCCACGCTTCTGCTCAACACTACCGCCTGTTGG
 CTGAGAGTGGAGATATTAGGCAGAGATGGTGGTGGGCTACAGGCCAAGACTGGAGGCT
 GGGCATGGATTTACTGCCTGTTATACTCAGAAGGTCCAGAGGGACCCATTACTGCCAATA
 ACTACCAATCAGTGACATGGAAGCCTGGAGCCTCCGCCAGCAGTTGAACTCTGAAGACA
 CCCAGGCAGCTTATGTCTGGGCACTCCGACCATGCTGCCCTCATTCCCTGAAAACATTC
 TTTCCAGGAAGAGTGTCCAGCACTAACCCACTCTTACCAGCAGCACTGGGGCTCCCA
 GAAGCACCAGCTCCCCAGTGTCTGAACTGAGTGTGTCTCTGCATCAGAAGAGCTTC
 CCCGACCTCAAAGAAGTGGACTTCAGTTACCTGACATTCCTTCTGGGCTGAGCCTT
 CTCTCCAAGCAGAATAAGCAAGGATCTTGTGTGCACTCCACTTACACGCCCATCAGC
 CAGGAGGCTGTGCCTTCTTTCAGCCTCCATGAGCCCTTCCAGACCCATTTGCCACCC
 CATCCAGCACTCTTCAAGAACAGCTGACTCCAAGCACTGCGACCTTCTCTGATCAGTTGA
 CGCCAGCAGTGCAACCTTCCAGATCCACTAAGTCCACTGCAAGGCCAGTTGACTG
 AAACCTCGGTGAGAAGCTATGAAGACCAGTTGACTCCCTGCACCTCCACCTTCCAGACC
 AGCTGCTTCCAGCACAGCCACCTTCCAGAGCCTCTGGGAGCCCTGCCATGAACAGC
 TGACTCCTCCAGCACAGCATTCCAAGCACACCTGGACAGCCCCAGCCAAACCTTCCAG
 AGCAACTGAGCCCAACCTACCAAGACTTACTTTGCCAGGAGGATGCAGTTTCTCT
 ATGAGAAGTTGCCCCAAGTCTAGCAGCCCTGGTAATGGGACTGCACGCTCTTGGCC
 TAGCCAGCTCCGGGGCCCCCTCTGTGGATGTCCCCTGGTGCCCGAAGGCCTGCTCA
 CACCTGAGGCCTCTCCAGTCAAGCAGAGTTTCTTCCACTACTCTGAAAAGGAGCAGAATG
 AGATAGACCGTCTCATCCAGCAGATTAGCCAATTGGCTCAGGGCATGGACAGACCCTTCT
 CAGCTGAGGCTGGCACTGGCGGACTAGAGCCACTTGGAGGACTGGAGCCCTGGACTCCA
 ACCTGTCCCTGTGAGGGGAGGCCCCCTGTGCTCAGCCTGGACTGAAACCTGGAAAT
 GCCAGGAGCTGGACTTCTGGCTGACCTGATAACATGTTCTTGGAAAGAGACGCCCGTGG
 AAGACATCTTATGGATCTCTTACCCAGATCCAGTGAAGGATGGGGCTCAGGGGATC
 CTGAGGCAGAGGGCCAGGAGGGGCCCATCGCCTTGAACAACCTGTCCCAGAAAGACC
 ACAGCTTCTGGAGGACCTGGCCACATATGAAACCGCCTTTGAGACAGGTGTCTAGCAT
 TCCCCTATGATGGGTTTACTGATGAGTTGCATCAACTCCAGAGCCAAGTTCAAGACAGCT
 TCCATGAAGATGGAAGTGGAGGGGAACCAACGTTTTGAATAAGTCTGTGACTTAACGTGC
 TCAAGTATGGCATATTGCATCAAGACGTGGAGCCGCTCTCCAC

Restriction Sites: Please inquire
ACCN: NM_178864
Insert Size: 2600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_178864.2](#), [NP_849195.1](#)

RefSeq Size: 3302 bp

RefSeq ORF: 2409 bp

Locus ID: 266743

UniProt ID: [Q8IUM7](#)

Cytogenetics: 11q13.2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: NXF is a member of the basic helix-loop-helix-PER (MIM 602260)-ARNT (MIM 126110)-SIM (see SIM2; MIM 600892) (bHLH-PAS) class of transcriptional regulators, which are involved in a wide range of physiologic and developmental events (Ooe et al., 2004 [PubMed 14701734]). [supplied by OMIM, Mar 2008]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).