

Product datasheet for **RC211231**

NPAS4 (NM_178864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPAS4 (NM_178864) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPAS4
Synonyms:	bHLHe79; Le-PAS; NXF; PASD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211231 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTACCCTCCACCAAGGGCGCCTCCAAGGGCGCCGGGACCAGATCAACGCCGAGATCCGGAACCTCA
 AGGAGCTGCTGCCGCTGGCCGAAGCGGACAAGGTCGGCTGTCTACCTGCACATCATGAGCCTCGCCTG
 CATCTACACTCGCAAGGGCGTCTTCTTCGCTGGTGGCACTCCTCTGGCGGCCCCACGGGCTTCTCTCA
 GCTCAAGAGCTTGAGGACATCGTAGCGCACTACCCGGCTTTCTGCTTGTGTTACAGCCGAGGGGAAAT
 TGCTCTACCTGTCTGAGAGTGTGAGCGAGCATCTGGCCACTCCATGGTGGACTGGTTGCCAGGGTGA
 CAGCATCTACGACATCATTGACCAGCTGACCACCTCACTGTGCGCCAGCAACTCACCTGCCCTCTGCC
 CTGGACTGATCGCTTTCGCTGCCGCTTCAACACCTCCAAGTCCCTCAGGCCCCAGAGTGCAGGCA
 ACAAACCTCGTGCTTATTCGAGGCCGATTCCATGCTCACCCACTGGAGCCTACTGGGCAGGAAATCCCGT
 GTTCACAGCTTTCTGTGCCCTCTGGAGCCGAGACCCCGCCAGGTCCTGGCCCTGGCCCTGGCCCTGCC
 TCGCTCTTCTGGCCATGTTCCAGAGCCGCATGCTAAAGACCTGGCTCTACTGGACATCTCCGAGAGTG
 TCCATCTACCTGGGCTTTGAGCGCAGTGAAGTCTTTGTAAATCATGGTATGGACTGTGCACCCCGA
 GGACTGGCCACGCTTCTGCTCAACACTACCGCTGTTGGCTGAGAGTGGAGATATTAGGCAGAGATG
 GTGGTGAAGCTACAGGCCAAGACTGGAGGCTGGGCATGGATTTACTGCCTGTTATACTCAGAAGGTCCAG
 AGGGACCATTACTGCCAATAACTACCAATCAGTGACATGGAAGCCTGGAGCCTCCGCCAGCAGTTGAA
 CTCTGAAGACCCAGGCAGCTTATGCTCTGGCACTCCGACCATGCTGCCCTATTCCCTGAAAACATT
 CTTTCCCAGGAAGAGTGCTCCAGCACTAACCACTCTTACCAGCAGCACTGGGGGCTCCCAGAAGCACCA
 GACTTCCAGTTACTGACATTCCCTTCTGGCCCTGAGCCTTCTCTCCAAGCAGAAGTAAAGCAAGGATCTT
 GTGTGCACTCCACCTTACAGCCCATCAGCCAGGAGGCTGTGCCTTCTCTTACGCTCCATGAGCCCT
 TCCAGACCATTGCCCACCCATCCAGCACTCTCAAGAAGCAGCTGACTCCAAGCACTGCGACCTTCTC
 TGATCAGTTGACGCCAGCAGTGAACCTTCCAGATCCACTAAGTCCACTGCAAGGCCAGTTGACT
 GAAACCTCGTCAAGATATGAAGACCAGTTGACTCCCTGCACCTCCACCTTCCAGACCAGCTGCTTC
 CCAGCACAGCCACCTTCCAGAGCCTCTGGGCAGCCCTGCCATGAACAGCTGACTCCTCCAGCACAGC
 ATTCGAAGCACACCTGGACAGCCCAAGCAACCTTCCAGAGCAACTGAGCCCCAACCTACCAAGACT
 TACTTTGCCAGGAGGATGCAGTTTTCTATGAGAAGTTGCCCAAGTCTAGCAGCCCTGGTAATG
 GGGACTGCAGCTCTTGGCCCTAGCCAGCTCCGGGGCCCTCTCTGTGGATGTCCCCCTGGTGCCCGA
 AGGCTGCTCACCTGAGGCTCTCCAGTCAAGCAGAGTTTCTTCCACTACTCTGAAAAGGAGCAGAAT
 GAGATAGACCGTCTCATCCAGCAGATTAGCCAATTGGCTCAGGGCATGGACAGACCCTTCTCAGCTGAGG
 CTGGCACTGGCGGACTAGAGCACTTGGAGGACTGGAGCCCTGGACTCCAACCTGTCCCTGTCAGGGGC
 AGGCCCCCTGTGCTCAGCCTGGACCTGAAACCTGGAATGCCAGGAGCTGGACTTCTGGCTGACCT
 GATAACATGTTCTGGAAGAGACGCCGTGGAAGACATCTTATGGATCTCTTACCCAGATCCCAGTG
 AGGAATGGGGCTCAGGGGATCCTGAGGCAGAGGGCCAGGAGGGGCCCATCGCTTGAACAACCTGTC
 CCCAGAAGACCACAGCTTCTGGAGGACCTGGCCACATATGAAACCGCCTTTGAGACAGGTGTCTCAGCA
 TTCCCCTATGATGGGTTTACTGATGAGTTGCATCAACTCCAGAGCCAAGTTCAAGACAGCTTCCATGAAG
 ATGGAAGTGGAGGGAACCAACGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211231 protein sequence
Red=Cloning site Green=Tags(s)

MYRSTKGASKARRDQINAEIRNLKELLPLAEADKVRLSYLHIMSLACIYTRKGVFFAGGTPLAGPTGLLS
AQELEDIVAALPGFLLVFTAEGKLLYLSSESVSEHLGHSMVDLVAQGDSIYDIIDPADHLTVRQQLTLP
LSDTLRDLFRCRFNTSKSLRRQSAGNKLVLIRGRFHAHPPGAYWAGNPVFTAFCAPLEPRPRPGPGPGPA
SLFLAMFQSRHAKDLALLDISESVLIYLGFERSELLCKSWYGLLHPEDLAHASAQHYRLLAESGDIQAEM
VVRLQAKTGGWAWIYCLLYSEGPEGPITANNYPISDMEAWSLRQQLNSEDQAAYVLGTPTMLPSFPENI
LSQECSSTNPLFTAALGAPRSTSFPSAPELSVVSASEELPRPSKELDFSYLTFPSGPEPSLQAELSKDL
VCTPPYTPHQPGGCAFLFSLHEPFQTHLTPSSTLQEQLTPSTATFSDQLTPSSATFPDPLTSPLQGQLT
ETSVRSYEDQLTPCTSTFPDQLLPSTATFPEPLGSPAHEQLTPPSTAFQAHLDSPSQTFFPEQLSPNPTKT
YFAQEGCSFLYEKLPPSPSPGNGDCTLLALAQLRGPLSVDVPLVPEGLLTPEASPVKQSFHYSEKEQN
EIDRLIQQISQLAQGMDRPFSAEAGTGGLEPLGGLEPLDSNLSL SGAGPPVLSLDLKPWKQELDFLADP
DNMFLEETPVEDI FMDLSTDPDSEEWGSGDPEAEGPGGAPSPCNNLSPEDHSFLEDLATYETAFETGVSA
FPYDGFDELHQLQSQVQDSFHEDGSGGEPTF

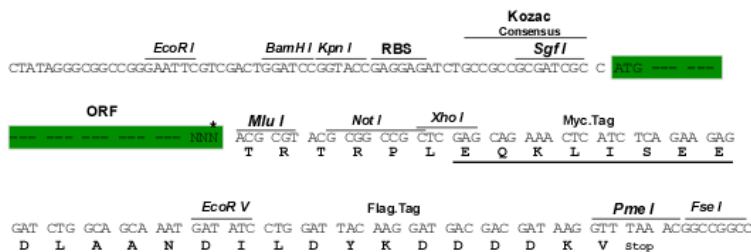
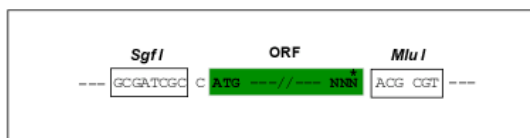
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6692_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178864

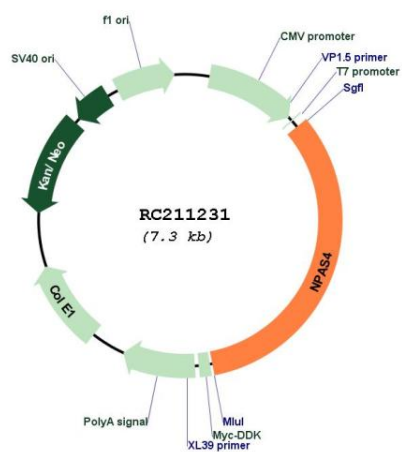
ORF Size: 2406 bp

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 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_178864.4
RefSeq Size:	3302 bp
RefSeq ORF:	2409 bp
Locus ID:	266743
UniProt ID:	Q8IUM7
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome, Transcription Factors
MW:	87.1 kDa
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]

Product images:



Circular map for RC211231