

Product datasheet for **RG215493**

NPAS3 (NM_022123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NPAS3
Synonyms:	bHLH ϵ 12; MOP6; PASD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215493 representing NM_022123
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGGATCGC**

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CAACGCATCCACGCGCACAGACTCTGGAGCGCAAGGAGGAC

AG**CGGACCG**ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215493 representing NM_022123

Red=Cloning site Green=Tags(s)

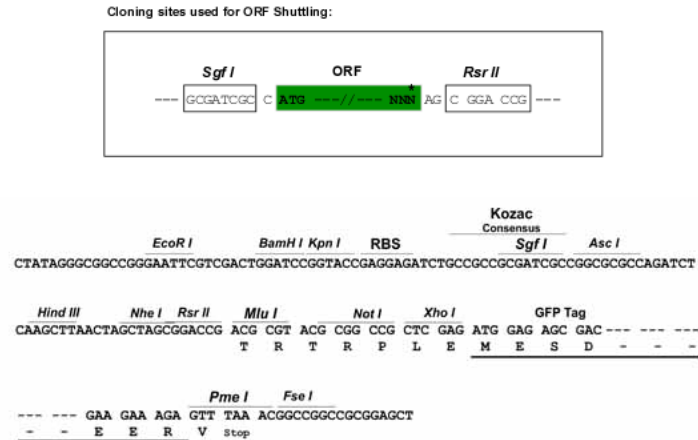
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SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_022123

ORF Size: 2703 bp

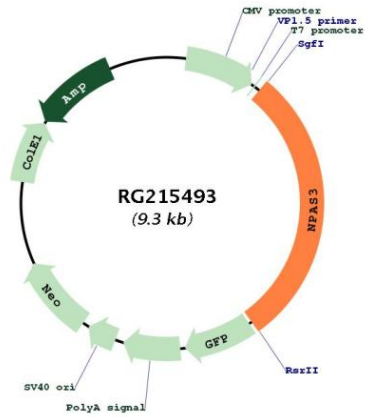
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_022123.3</u>
RefSeq Size:	3428 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:	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]

Product images:



Circular map for RG215493