

## Product datasheet for RC220768

### NPAT (NM\_002519) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NPAT (NM_002519) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NPAT
Synonyms:	E14; E14/NPAT; p220
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220768 representing NM_002519 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC220768 representing NM\_002519  
Red=Cloning site Green=Tags(s)

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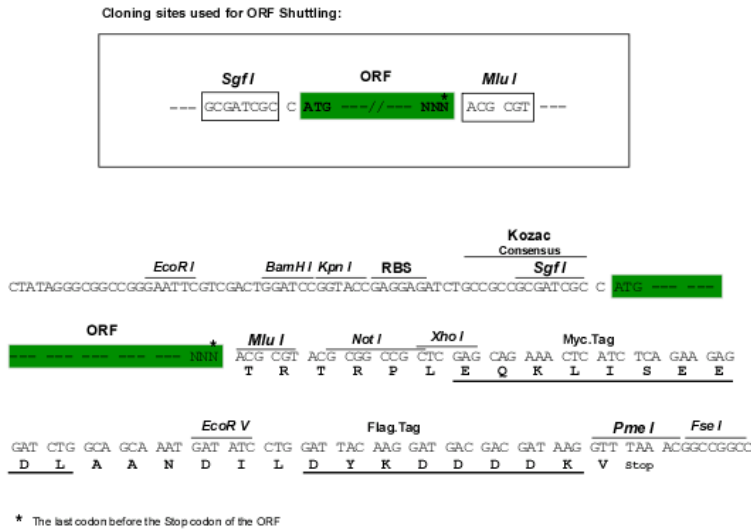
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**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4821\\_f06.zip](https://cdn.origene.com/chromatograms/mg4821_f06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

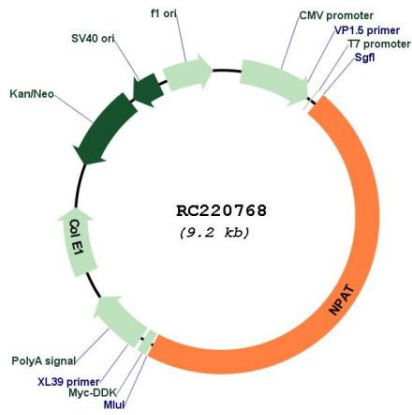


**ACCN:** NM\_002519

**ORF Size:** 4281 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002519.3</a>
<b>RefSeq Size:</b>	5895 bp
<b>RefSeq ORF:</b>	4284 bp
<b>Locus ID:</b>	4863
<b>UniProt ID:</b>	<a href="#">Q14207</a>
<b>Cytogenetics:</b>	11q22.3
<b>Domains:</b>	LisH
<b>MW:</b>	154.1 kDa
<b>Gene Summary:</b>	Required for progression through the G1 and S phases of the cell cycle and for S phase entry. Activates transcription of the histone H2A, histone H2B, histone H3 and histone H4 genes in conjunction with MIZF. Also positively regulates the ATM, MIZF and PRKDC promoters. Transcriptional activation may be accomplished at least in part by the recruitment of the NuA4 histone acetyltransferase (HAT) complex to target gene promoters.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC220768