

Product datasheet for **SC309024**

NPAT (NM_002519) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPAT (NM_002519) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPAT
Synonyms:	E14; E14/NPAT; p220
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002519 edited

```

ATGTTGTTACCTCGGACGTAGCCGGCTTGTATTGGGTTACTTACAGCAAGAAAACCTC
ATTTCTACCTGCCAGACTTTTATTTGGAAAGTTCAGATTTAAAGAATATGCAGAACAT
TGTACAGATGAAGGGTTTATTCCAGCCTGCTTACTGTCCTTATTTGGAAAAAACTTGACA
ACAATTTTAAATGAGTATGTAGCTATGAAAACAAAAGAAACATCAATAATGTCCAGCA
ATAATGTCATCTCTATGGAAGAAATTGGACCATACTTTCTCAGATCAGGAGCATGCAA
AGTTCCCCAAGGTTTGCTGGCAGTCAGAGAGCCGAACGAGAACTGGAATTGCAGAAATC
AAACGGCAGAGAAAGCTTGCATCTCAAACAGCTCCAGCCAGTGCAGAGTTGCTCACTTTA
CCTTACCTTTTCCAGGACAGTTTACCCTCCTCCTCCACAGGTACACAGGTTACTCGACCA
AGTGGCCAAATTTTCAGATCCATCGAGGTCATATTTGTAGTGGTCAACCACTCACAGTCA
CAAGATACTGTAACCACTGGAGAAGCTTTAAATGTCATTCTGCTGCTCAGGAAAAGAAA
GCATATGCCAGTTTAAATGTCTCCCGGTAGACGCAAAAGTGAATCTCAGAGAAAAAGTACC
ACTTTGTCTGGCCCTCATTCAACAATACGGAATTTCCAAGATCCAACCGCTTTTGCACTA
GAAAAACAAATGGTTATTGAAAATGCACGAGAAAAAATACTAAGCAACAAATCTCTTCAA
GAAAAGCTAGCAGAAAACATAAAATAATTTTAACTAGTGATAACAATATTGCCCAAGTA
CCTAAGCAAACAGATAACAACCTTACGGAGCCAGAGACTTCAATTGATGAATTCCTAGGA
CTTCCGAGTGAAATTCACATGTCTGAAGAAGCTATACAGGACATATTGGAACAGACAGAA
TCAGACCCAGCATTTCAGGCACTCTTTGATCTCTTTGACTATGGCAAAACAAAGAATAAT
AAAAATATATCACAAAGTATTTCCAGTCAACCTATGGAATCCAATCCCAGTATAGTCTTA
GCAGATGAAACTAATCTAGCAGTTAAAGGTTCTTTTGAACAGAAGAATCTGATGGTCAG
TCTGGTCAGCCCGCTTTTGTACATCCTATCAGAATGATGACCCATTAATGCTTTGAAG
AATAGCAACAACCATGATGTGCTTAGACAAGAAGACCAGGAAAATTTTCCCAAATAAGT
ACCAGCATACAGAAAAAGGCCTTTAAACAGCTGTACCCACTGAACAGAAGTGTGACATT
GACATTACCTTTGAGTCCGTGCCTAATTTGAATGACTTTAACCAAAGAGGGAATTCTAAT
GCTGAATGTAATCCACATTGTGCTGAATTATACCAATCAGATGTCCACTGAACTGAA
ATGGCTATAGGGATTGAAAAGAAGCTTTTGTCTTCAAATGTACCGAGTGAATCTCAGTTA
CAGCCTGATCAGCCTGATATACCAATAACTTCATTGTTCCTTGGTTGTGAAGCTAAC
  
```



[View online »](#)

AATGAAACTTAATTCTCTCTGGGAAGAGTTCTCAACTTTTATCCCAAGATACTTCATTA
 ACTGGAAGCCATCTAAAAAAGTCAATTTTGTGAAAATTCTAATGATACAGTAAAACTT
 AAAATTAATTTTCATGGTTCCAAGTCATCAGATTCTAGTGAAATTCACAAGAGTAAATA
 GAAATTAATGTGTAGAACCAAGTTATGTACAGCTATCAAATTGCCAAGATAATCTTGT
 CTTCAAAGTGAATACTACCTGTGTCTGTTGAAAGTTCACATTTAAATGTATCTGGACAA
 GTAGAAATTCATCTTGGAGATTGCTGTCTTCTACTAAACAACCATCTAATGATTACAG
 TCTGTTGAGTTAAATCATACAGAAAATGAAGCTCAGGCATCCAAGTCTGAGAATTCACAG
 GAGCCTTCATCTTCTGTAAAAGAAGAGAATACTATTTTTCTCTCTTTAGGTGGAATGCT
 AACTGTGAGAAAGTTGCACTGACGCCTCCAGAAGGCACTCCTGTAGAAAACAGTCACTCT
 CTTCTCCAGAATCTGTGTGTTCTTCAGTGGGAGATTCTCACCCTGAGTCCCAAAATACT
 GATGATAAACCTTCTAGCAACAACCTCAGCAGAGATAGATGCATCAAATATCGTCTCTCTC
 AAAGTTATCATTAGTGATGATCCATTTGTTTCTCAGATACTGAACCTACCAGTGCTGTT
 TCTAGTATTAATGGAGAAAACCTGCCAACTATAATCTTGTCTTCTCTACTAAATCACCT
 ACTAAAAATGCAGAACTAGTTAAATGCCTATCTTCAGAAGAACTGTAGGTGCTGTTGTA
 TATGCCGAAGTAGGGGATTGAGCCTCAATGGAACAGAGTCTTTTAACATTCAAATCTGAA
 GACTCTGCAGTAAACAATACTCAGAATGAAGATGGCATTGCTTTTTCAGCTAATGTTACA
 CCATGTGTTTTCAAGGATGGAGGATATATACAGTTGATGCCAGCCACAAGCACAGCTTTT
 GGCAATTCAAATAACATTCTGATAGCTACCTGTGTGACTGATCCAACAGCGTTAGGAACA
 TCTGTAAGTCAGTCTAATGTAGTGGTGTGCTGGAAATCTGCACCTATGACTGCTCAA
 CCTCTACCACCTCAGTTACAGACACCACCAAGGTCAAACAGTGTATTTGCTGTCAACCAA
 GCTGTGTACCAAACCTTTTCAAGGATCTGCCATAATAATTGCCTCTCCAGTCCAGCCT
 GTACTCCAAGGAATGGTAGGGATGATCCAGTATCTGTGGTTGGACAGAATGGAAATAAC
 TTTTCTACTCCTCCTCGGCAGTTCTTCATATGCCTTTGACAGCACCTGTATGCAATAGA
 AGTATCCCTCAATTCCTCGTCCCTCCAAAATCTCAGAAGGCTCAGGGACTAAGAAACAAG
 CCTGTATAGGAAAACAAGTAAATAATTTGGTGGATTCTGCAGGTCATTAGTTGGATGT
 CATGCACAAAAAACTGAAGTTTCTGACAAAAGTATTGCCACAGATCTTGGGAAAAATCA
 GAAGAAACCACAGTTCCTTCCAGAAGAGAGTATAGTTCCAGCTGCTAAACCATGCCAC
 AGACGTGTAAGTCTGTTTCGACAGCACTACTGCTCCTGTGGCAATACGCAGGGGCCAAAC
 CATAAGATGGTGTCCCAAAACAAAGAAAGGAATGCAGTCTCTTTCTAATCTTGACTCA
 CCCAATGTGCTCCACCTTAAACCCCTTCTAATAATGCTATCAAAAGAGAGAAAGAG
 AAGCCTCCTCTGCCTAAGATTTTATCTAAATCGGAAAGTGCCATTAGCCGGCATACCACC
 ATAAGAGAAACTCAATCAGAAAAGAAAGTTTCACCAACAGAAATTGTGCTTGAATCTTTC
 CATAAAGCAACAGCTAATAAGGAGAATGAATTATGCAGCGATGTAGAAAGACAGAAAAAT
 CCAGAAAATTCAAAATCTATTGGGCAGCAAAATGGGGGTTTGCGAAGTGAGAAATCT
 ATAGCTTCACTGCAAGAAATGACCAAAAAACAAGGCACATCTTCAAACAATAAAATGTA
 CTTTCAGTAGGTACAGCTGTGAAGGATCTAAACAAGAACAACCTAAATCCGCCAGTTCT
 TTGATTACCACAGAAATGTTACAGGATATACAGAGGCACAGCTCAGTAAGTAGGCTTGCT
 GATAGTAGTGATTACCTGTGCCCCGGACACCTGGCTCAGGGGCAGGGGAAAAACATAAA
 GAAGAACCTATAGATATTATCAAGGCCCTCTAGTAGGCGTTTCAGTGAAGACAGTAGT
 ACATCAAAAGTAATGGTCCCTCCTGTACCCCAGACTTGCTGCCTGCAGCCCTGCCAGT
 GAAACAGGAAGTGAACAGTGTAAATATGGCTGCCACACATTAATGATTCTCTCCAGG
 GCAGCCATTTCTAGGACTACTTCAGCAACTCCTCTGAAAGATAACACACAACAGTTTGA
 GCATCTTCAAGGAGCACCACAAAAAGCGGAAATGAGGAATTAGATGAACGTGAGCGA
 AACTCTCGTCTTCTAGTAAAAATCTTACAAATTCATCAATACCAATGAAAAAGAAGAA
 ATTAAGAAAAAGAAGCTCCAGTTCATTTCCAGCAGGAATGGATGTAGACAAATTTTGT
 TTATCATTGCATTATGATGAGTAA

Restriction Sites: Please inquire

ACCN: NM_002519

Insert Size: 5700 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:	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:	<u>NM_002519.1</u> , <u>NP_002510.1</u>
RefSeq Size:	5895 bp
RefSeq ORF:	4284 bp
Locus ID:	4863
UniProt ID:	<u>Q14207</u>
Cytogenetics:	11q22.3
Domains:	LisH
Gene Summary:	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]