

Product datasheet for **SC124323**

ZGPAT (NM_181485) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZGPAT (NM_181485) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZGPAT
Synonyms:	GPATC6; GPATCH6; KIAA1847; ZC3H9; ZC3HDC9; ZIP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124323 sequence for NM_181485 edited (data generated by NextGen Sequencing)

```
ATGGACGAGGAGAGCCTGGAGTCGGCCTTGACAGACCTACCGTGCGCAGCTGCAGCAGGTG
GAGCTGGCCTTGGGCGCCGGCCTGGATTCTGCTGAGCAGGCTGACCTGCGCCAGCTGCAG
GGGACCTGAAGGAGCTCATCGAGCTCACCAGAGCCAGCCTGGTGCTGTGTCAGGAAGAGC
AGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCGCCAGGAAGATGCTGAGTACCAG
GCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCTGGGTCCGGA
TCAGAGACCGTTTCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAG
GAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGC
TCCTGGGGCACTCTGGAGTATCACAACGCCATGGTGGTGGGAACGGAAGAGGCGGAGGAT
GGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAGTCTCTGAAGCCGTGC
CCGTTCTTCTGGAGGGAAGTGGCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCC
GGCTCTGCGTGTCTGGCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCAT
GTGGACAACGGCTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGAGGCCGTGGT
GAGGGGGACGGCATCCTGCCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGC
GACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTC
CTACCAAGATGGGCTATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTG
GAGCCCATCCATGCTGTGGTGTTCCTCGAGGGAAGTCTGAGGACAGTGTGTGGAGACC
CTGCAGAAGCAGACAGGCTTGGCAAGGCTGGCACCAACAAGCCCCCAGGTGCCGGGA
AGAGGGGCCAGGCTGGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCTCTCAATGAA
AAGCTGCAAGGTGAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGG
AGCAAGGACATGTACCATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTC
CAGACTGAGGAGAAGATCGAGCGAACCCAGCGGGACATCAGGAGCATCCAGGAGGCTCTC
GCCCCAACGCTGGCCGGCATAGCGTGGCGTCAGCCAGCTGCAGGAGAAGCTGGCAGGA
GCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTCTAG
```

Clone variation with respect to NM_181485.2
183 c=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181485 unedited

```
GGAATATTTGTNAATACGTACTACTATAGGGGCGGCCGATTGCGCACGAGGGGCGCT
CGGGAGGAAGTGCCGATCGGCTGCTGGGGCGAAAGGGGGCGCCGGGCGCTCTAGCCGCC
CTGGTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGAGAGCCTGGAGTCGGCCTTGCCAGA
CCTACCGTGCGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGCGCCGGCCTGGATTCTGCTG
AGCAGGCTGACCTGCGCCAGCTGCAGGGGACCTGAAGGAGCTCATCGAGCTCACCAGAG
CCAGCCTGGTGTCTGTCAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGCCCGG
GCCGCCAGGAAGATGCTGAGTACCAGGCTTTCGGGAGGCCATCACTGAGGCGGTGGAGG
CACCAGCAGCGGCCCGTGGGTCCGGATCAGAGACCGTTCTAAAGCAGAGGCGGGGCCAG
AATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGA
CAAAGGTGAGCGCGCCCTACTACAGCTCCCTGGGGCACTCTGGAGTATCACAACGCCATG
GTGGTGGCAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTAC
CCCACTCACAAGTCTCTGAAGCCGTGCCGTTCTTCTGGAGGGAAGTGCCGCTTTAAG
GAGAACTGCAGGTTCTCCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCTTCCAA
GACCCAGACCTGAGCTCCCTGCAGCCGGCTCTGGGTGTCTGGCCAAGCACCAGATGGCCT
CTGGCACGCACC
```

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_181485 unedited
 GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTGACACTGTGATGAAATCACTTT
 AATGTCCTTGCCAAGGAAATGCCAAGACACTGGCAGGTGGGCAAGTAAGTGTCCAGATG
 GGACCCCGCAGCTCTGTCTCCACTCAGCAGTGTCCGCACGCCCCAGGCCAGCAGGCCGGC
 CCCTCCTCGGGCAACACTGGTCTTCCTGAGGGCAGCCCGTGTGGGGTCCCACGTTTCGT
 CCATAGTGCTTGTGGGTCTCTAGAACTCAGTCATCTTCTGTGGGTGTCTGCCTTCCTC
 TGCTCCTGTCTGCAGGCCGGCTTCCTGAGCCCGAGCTGCCCGAGCTGGCGCTGGGCTCCT
 GCCAGCTTCTCCTGCAGCTGGGCTGACGCCACGCTATGCCGGCCAGCGTTGCGGGCGAGA
 GCCTCCTGGATGCTCCTGATGTCCCGCTGGGTTGCTCGATCTTCTCCTCAGTCTGGAAG
 AGCCGCAGGCTCAAGGCCCGCTTGGCACTCTTGCTGGCATGTACATGTCTTGCTCCCTC
 TCCCCGCTGGGGCCGCCCGGCTTCTAGGGCCCCAGGAGCTGGACCTGCAGCTTTTAT
 TGAAGAAAGCAACACCTTCCGAGGAGCTGGGCGGGCCCCAAGCCCTGCCCTCTTTCC
 CCGCAACCTTGGGGGCTCTGTTGTTGCCAGTCTTGCCAACCTTGTCTGGTTCTGCA
 GCGCCTCCAACAACCTGTTCCAGCGACTTCTCGAGGCAACACCCAGCATGAATGGGCT
 CCACCCGCTTCCCGGTGTCGGCCAAACCTTTGAAACTATAACCCCACTTGTGGGGC
 GCTTGGGCCCCCTACCCTCCCGGGTGCCCCCTCCCACTTAAAGGCCCGCTCCCCGCTC
 TAATTCTACCCGCCCTACCCCCCCTGGCCACCCGGGTTTTCTGCCCTTCCCCCCTC
 CCGCCCTCTATCCACTCTCGTTACATCTTCTACTTCCACCCACCGTTTGATCCCCG
 CCGCTCCCACTTATCTCGCACCTCCAGTCACCCGTCCCAAATT

Restriction Sites:

ECORI-NOT

ACCN:

NM_181485

Insert Size:

2000 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](#)

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_181485.1, NP_852150.1

RefSeq Size: 1881 bp

RefSeq ORF: 1536 bp

Locus ID: 84619

UniProt ID: Q8N5A5

Cytogenetics: 20q13.33

Gene Summary: Transcription repressor that specifically binds the 5'-GGAG[GA]A[GA]A-3' consensus sequence. Represses transcription by recruiting the chromatin multiprotein complex NuRD to target promoters. Negatively regulates expression of EGFR, a gene involved in cell proliferation, survival and migration. Its ability to repress genes of the EGFR pathway suggest it may act as a tumor suppressor. Able to suppress breast carcinogenesis.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate in-frame splice site in the middle portion of the coding region, compared to variant 1. This results in a shorter protein (isoform c), compared to isoform a. Variants 3, 4 and 5 encode the same isoform (c).