

## Product datasheet for **SC323980**

### ZGPAT (NM\_001083113) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZGPAT (NM_001083113) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZGPAT
Synonyms:	GPATC6; GPATCH6; KIAA1847; ZC3H9; ZC3HDC9; ZIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001083113.1  
 CCACGCGTCCGGCGGGCGGCGCTCGGGAGGAAGTGCCGATCGGCTGCTGGGGCGAAAAGGG  
 GGGCGCGGGCCGCTCTAGCCGCCCTGGTCCAGCGCCTCCCTCTCTCAGCATGGACGAGGA  
 GAGCCTGGAGTCGGCCTTGACAGACTACCGTGCAGCTGCAGCAGGTGGAGCTGGCCTT  
 GGGCGCCGGCCTGGATTCTGCTGAGCAGGCTGACCTGCCAGCTGCAGGGGGACCTGAA  
 GGAGCTCATCGAGCTCACCGAGGCCAGCCTGGTGTCTGTCAGGAAGAGCAGGTTGTTGGC  
 CGCGCTGGACGAAGAGCGCCCGGGCCAGGAAGATGCTGAGTACCAGGCTTTCCGGGA  
 GGCCATCACTGAGGCGGTGGAGGCCACCAGCAGCGCCCGTGGGTCCGGATCAGAGACCGT  
 TCCTAAAGCAGAGGGCGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGA  
 GGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCAC  
 TCTGGAGTATCACAACGCCATGGTGGTGGGAACGGAAGAGGGCGGAGGATGGCTCGCGGG  
 TGTCCGTGTGCTTACCTGTACCCCACTACAAGTCTCTGAAGCCGTGCCGTTCTTCTCT  
 GGAGGGAAAGTGGCCTTAAAGGAGAACTGCAGGTTCTCCATGGGCAGGTGGTCTCTCT  
 GGATGAGCTGCGCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTG  
 TCTGGCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCGATGTGGACAACGG  
 CTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGACGG  
 CATCTGCCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGCGACGGTACGGG  
 TGACTIONAGCTATGCCAGAGTGGTGGGGTCAAGTGTGACTGTGGACTCTGGGACCTGCAGCTC  
 TGCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTCACCAAGAT  
 GGGCTATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCA  
 TGCTGTGGTGTTCCTCGAGGGAAGTCTGCTGGACAGTGTGTGGAGACCTGCAGAAGCA  
 GACCAGGTTGGCAAGGCTGGCACCAACAAGCCCCCAGGTGCCGGGGAAGAGGGGCCAG  
 CCTGGGGGCCCGCCAGCTCCTCGGAATGTGTTGACTTCTCAATGAAAAGCTGCAAGG  
 TCAGGCTCCTGGGGCCCTAGAAGCCGGGCGGCCCCAGCGGGGAGGAGGAGCAAGGACAT  
 GTACCATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGA  
 GAAGATCGAGCGAACCCAGCGGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGAACGC  
 TGGCCGGCATAGCGTGGCGTCAGCCAGCTGCAGGAGAAGCTGGCAGGAGCCAGCGCCA  
 GCTGGGGCAGCTCCGGCTCAGGAAGCCGGCTGCAGCAGGAGCAGAGGAAGGCAGACAC  
 CCACAAGAAGATGACTGAGTTCTAGAGACCCACAAGCACTATGGACGAAGCGTGGGACC  
 CCAGCACGGGCTGCCCTCAGGAAGACCAGTGTTCGCCGAGGAGGGGCCGGCTGTGGCC  
 TGGGGCGTGGGACACTGCTGAGTGGAGACAGAGCTGCGGGGTCCCATCTGGACACTTAC  
 TTGCCACCTGCCAGTGTCTTGGCATTTCCTTGGCAAGGACATTAAGTGATTTTCATCA  
 CAGTGTCAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_001083113

**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:** [NM\\_001083113.1](#), [NP\\_001076582.1](#)

**RefSeq Size:** 1925 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 (4) 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).