

Product datasheet for **RC230846**

ZGPAT (NM_001195654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZGPAT (NM_001195654) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZGPAT
Synonyms:	GPATC6; GPATCH6; KIAA1847; ZC3H9; ZC3HDC9; ZIP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC230846 representing NM_001195654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAGGAGCCTGGAGTCGGCTTGCAGACCTACCGTGGCAGCTGCAGCAGGTGGAGCTGGCT
 TGGGCGCCGGCCTGGATTCTGAGCAGGCTGACCTGCCAGCTGCAGGGGAGCTGAAGGAGCTCAT
 CGAGCTACCGAGGCCAGCCTGGTGTCTGTGAGGAAGAGCAGCTTGTGGCCGCGCTGGACGAAGAGCGC
 CCGGGCCGCCAGGAAGATGCTGAGTACCAGGCTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCCAG
 CAGCGGCCGTTGGTCCGGATCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTG
 GCAGGAGGAGGAAGGGAGAGGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGGCCCTACTACAGC
 TCCTGGGCACTCTGGAGTATCACAAACCCATGGTGGTGGGAACGAAGAGGCGGAGGATGGCTCGGCGG
 GTGTCCGTGTGCTTACCTGTACCCCACTACAAGTCTCTGAAGCCGTGCCGCTTCTTCTGGAGGGAAA
 GTGCCGCTTAAAGGAACTGCAGTTCCTCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCTTC
 CAGGACCCAGACCTGAGCTCCCTGCAGGCGGCTCTGCGTGTCTGGCCAAGCACCAGGATGGCCTCTGGC
 ACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGA
 GGCCGTGGTGGAGGGGACGGCATCCTGCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGC
 GACGTGGTGGGTGAGTGTGTGGACTCTGGACCTGCAGCTCTGCCTTGTGGCTGGGAGGTGCACA
 CGCGAGGTATAGGCTCCAGACTCCTACCAAGATGGGCTATGAGTTTGGCAAGGGTTTGGCCGACACGC
 GGAAGGCCGGTGGAGCCATCCATGCTGTGGTGTTCCTCGAGGGAAGTCGCTGGACCAGTGTGTGGAG
 ACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCACAAGCCCCCAGGTGCCGGGAAGAGGGG
 CCGAGCTGGGGCCCGCCAGCTCCTCGAATGTGTTTACTTCTCAATGAAAAGCTGCAAGGTACGGC
 TCCTGGGGCCCTAGAAGCCAGGGCGGCCCCAGCGGGGAGGAGGCAAGGACATGTACCATGCCAGCAAG
 AGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAACCCAGCGGACA
 TCAGGAGCATCCAGGAGGCTCTCGCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCAGCTGCAGGA
 GAAGCTGGCAGGAGCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAG
 AGGAAGGCAGACCCACAAGAAGATGACTGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230846 representing NM_001195654
 Red=Cloning site Green=Tags(s)

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEER
 PGRQEDAEYQAFREAITAEVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYS
 SWGTLEYHNAMVVGTEEAEDGSAGVRVLYLPHKSLKPCPFLELGKCRFKENCRFSHGQVVSLDEL RPF
 QDPDLSSLQAGSACLAKHQDGLWHAARITDVDNGYYTVKFDLLLLREAVVEGDGILPPLRTEATESDSDS
 DVVGSDAVDSGTCSSAFAGWEVHTRGIGSRLLTKMGYEFKGLGRHAEGRVEPIHAVVLPGRKSLDQCVE
 TLQKQTRVKGAGTNKPPRCRGRGARPPAPRVDFLNEKLQGGQAPGALEARAAPAGRRSKDMYHASK
 SAKRALSLRLFQTEEKIERTQRDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQ
 RKADTHKMTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

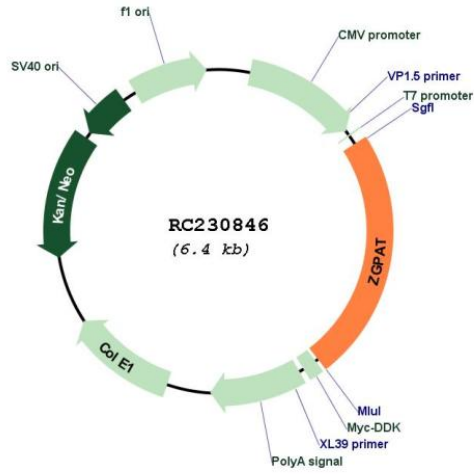
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001195654

ORF Size: 1506 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001195654.1 , NP_001182583.1
RefSeq ORF:	1509 bp
Locus ID:	84619
UniProt ID:	Q8N5A5
Cytogenetics:	20q13.33
MW:	55.1 kDa
Gene Summary:	<p>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]</p>