

Product datasheet for **RG230846**

ZGPAT (NM_001195654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZGPAT (NM_001195654) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZGPAT
Synonyms:	GPATC6; GPATCH6; KIAA1847; ZC3H9; ZC3HDC9; ZIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230846 representing NM_001195654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGGCAGCTGCAGCAGGTGGAGCTGGCCT
 TGGGCGCCGGCCTGGATTCTGAGCAGGCTGACCTGCCAGCTGCAGGGGACTGAAGGAGCTCAT
 CGAGCTACCGAGGCCAGCCTGGTGTCTGTGAGGAAGAGCAGCTTGTGGCCGCGCTGGACGAAGAGCGC
 CCGGGCCGCCAGGAAGATGCTGAGTACCAGGCTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCCACGAG
 CAGCGGCCGTGGGTCCGGATCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGG
 GCAGGAGGAGGAAGGGGAGAGGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGGCCCTACTACAGC
 TCCTGGGCACTCTGGAGTATCACAAACCCATGGTGGTGGGAACGAAGAGGCGGAGGATGGCTCGGCGG
 GTGTCCGTGTGCTTACCTGTACCCCACTACAAGTCTCTGAAGCCGTGCCGTTCTTCTGGAGGGAAA
 GTGCCGCTTAAAGGAACTGCAGTTCCTCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCTTC
 CAGGACCCAGACCTGAGCTCCCTGCAGGCGGCTCTGCGTGTCTGGCCAAGCACCAGGATGGCCTCTGGC
 ACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGA
 GGCCGTGGTGGAGGGGACGGCATCCTGCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGC
 GACGTGGTGGGGTCAAGTGTGTGGACTCTGGACCTGCAGCTCTGCCTTTGCTGGCTGGGAGGTGCACA
 CGCGAGGTATAGGCTCCAGACTCCTACCAAGATGGGCTATGAGTTTGGCAAGGGTTTGGCCGACACGC
 GGAAGGCCGGGTGGAGCCATCCATGCTGTGGTGTTCCTCGAGGGAAGTCGCTGGACCAGTGTGTGGAG
 ACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCACAAGCCCCCAGGTGCCGGGAAGAGGGG
 CCAGGCCCTGGGGCCGCCAGCTCCTCGAATGTGTTTACTTCTCAATGAAAAGCTGCAAGGTGAGGC
 TCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGGCAAGGACATGTACCATGCCAGCAAG
 AGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAACCCAGCGGACA
 TCAGGAGCATCCAGGAGGCTCTCGCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCAGCTGCAGGA
 GAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAG
 AGGAAGGCAGACACCCACAAGAAGATGACTGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230846 representing NM_001195654
 Red=Cloning site Green=Tags(s)

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLELIELTEASLVSVRKSLLAALDEER
 PGRQEDAEYQAFREAITAEVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYS
 SWGTLEYHNAMVVGTEEAEDGSAGVRVLYLPHKSLKPCPFLEGGKCRFKENCRFSHGQVVSLDEL RPF
 QDPDLSSLQAGSACLAKHQDGLWHAARITDVDNGYTTVKFDSLRLREAVVEGDGILPPLRTEATESDSDS
 DVVGSDAVDSGTCSSAFAGWEVHTRGIGSRLLTKMGYEFKGLGRHAEGRVEPIHAVVLPRGKSLDQCVE
 TLQKQTRVGKAGTNKPPRCRGRGARPGRAPRNVDFLNEKLQGGAPGALEAGAAPAGRRSKDMYHASK
 SAKRALSLRLFQTEEKIERTQRDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQ
 RKADTHKKMTEF

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1805_b12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001195654

ORF Size: 1506 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](#)

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:**
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 Size: 1941 bp

RefSeq ORF: 1509 bp

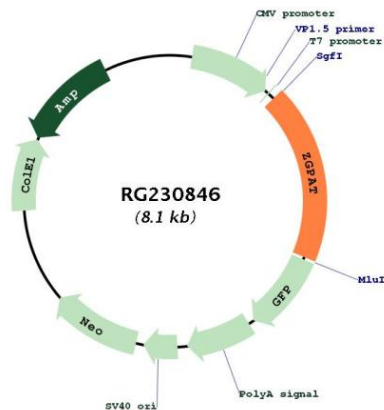
Locus ID: 84619

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]

Product images:



Circular map for RG230846