

Product datasheet for **RG213231**

ZGPAT (NM_032527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZGPAT (NM_032527) 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:

>RG213231 representing NM_032527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAGGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGGCAGCTGCAGCAGGTGGAGCTGGCCT
 TGGGCGCCGGCCTGGATTCTGAGCAGGCTGACCTGCCAGCTGCAGGGGGACCTGAAGGAGCTCAT
 CGAGCTACCCGAGGCCAGCCTGGTGTCTGTGAGGAAGAGCAGCTTGTGGCCGCGCTGGACGAAGAGCGC
 CCGGGCCGCCAGGAAGATGCTGAGTACCAGGCTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCCACAG
 CAGCGGCCGTTGGTCCGGATCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGG
 GCAGGAGGAGGAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGGCCCTACTACAGC
 TCCTGGGGCACTCTGGAGTATCACAAACCCATGGTGGTGGGAACGAAGAGGCGGAGGATGGCTCGGCGG
 GTGTCCGTGTGCTTACCTGTACCCCACTACAAGTCTCTGAAGCCGTGCCGTTCTTCTGGAGGGAAA
 GTGCCGCTTAAAGGAACTGCAGTTCCTCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCTTC
 CAGGACCCAGACCTGAGCTCCCTGCAGGCGGCTCTGCGTGTCTGGCCAAGCACCAGGATGGCCTCTGGC
 ACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGA
 GGCCGTGGTGGAGGGGACGGCATCCTGCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGC
 GACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGTGGGACGCCGTGGACTCTGCACAGTCTCTG
 CCCTCTGTCCGTCTTTGAGTGGTGGGTGAGTGTGTGGACTCTGGGACCTGCAGCTCTGCCTTTGC
 TGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTACCAAGATGGGCTATGAGTTTGGCAAG
 GGTGGGCGGACACGCGGAAGGCCGGTGGAGCCCATCCATGCTGTGGTGTGCCTCGAGGGAAGTCGC
 TGGACCAAGTGTGTGGAGACCTGCAGAAGCAGCAGGCTTGGCAAGGCTGGCACCACCAAGCCCCAG
 GTGCCGGGAAGAGGGGCCAGGCCCTGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCTCAATGAA
 AAGCTGCAAGGTGAGGCTCCTGGGGCCCTAGAAGCCGGGCGGCCCCAGCGGGGAGGAGGCAAGGACA
 TGTACCATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGA
 GCGAACCCAGCGGACATCAGGAGCATCCAGGAGGCTCTCGCCGCAACGCTGGCCGGCATAGCGTGGCG
 TCAGCCCAGCTGCAGGAGAAGCTGGCAGGAGCCAGCGCCAGCTGGGCGAGCTCCGGGCTCAGGAAGCCG
 GCCTGCAGCAGGAGCAGAGGAAGGCAGACACCCACAAGAAGATGACTGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213231 representing NM_032527
 Red=Cloning site Green=Tags(s)

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSLLAALDEER
 PGRQEDAEYQAFREAITAEVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYS
 SWGTLEYHNAMVVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFLEGGKCRFKENCRFVSHGQVVSLELDRPF
 QDPDLSSLQAGSACLAKHQDGLWHAARITDVDNGYTYVKFDSLRLREAVVEGDGILPPLRTEATESDSDS
 DGTGDSSYARVVGSDAVDSAQSSALCPSLAVVGSDAVDSGTSSAFAGWEVHTRGIGSRLLTKMGYEFVK
 GLGRHAERVEPIHAVVLPKSLDQCVETLQKQTRVGKAGTNKPPRCRGRGARPPGRPAPRVDFLNE
 KLQGGAPGALEAGAAPAGRRSKDMYHASKAKRALSLRLFQTEEKIERTQRDIRSIQEALARNAGRHSVA
 SAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_032527

ORF Size: 1593 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_032527.4](#)

RefSeq Size: 2028 bp

RefSeq ORF: 1596 bp

Locus ID: 84619

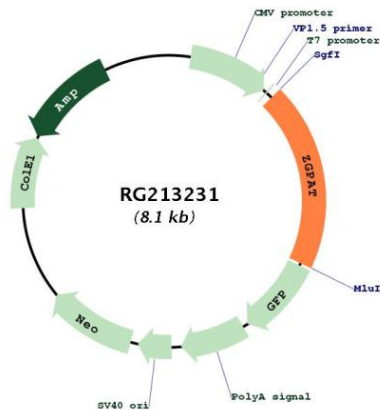
UniProt ID: [Q8N5A5](#)

Cytogenetics: 20q13.33

Domains: G-patch, zf-CCCH

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 RG213231