

Product datasheet for **RG234319**

ZGPAT (NM_001195653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZGPAT (NM_001195653) 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:

>RG234319 representing NM_001195653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGGCAGCTGCAGCAGGTGGAGCTGGCCT
 TGGGCGCCGGCCTGGATTGCTCTGAGCAGGCTGACCTGCCAGCTGCAGGGGACCTGAAGGAGCTCAT
 CGAGCTACCGAGGCCAGCCTGGTGTCTGTGAGGAAGAGCAGCTTGTGGCCGCGCTGGACGAAGAGCGC
 CCGGGCCGCCAGGAAGATGCTGAGTACCAGGCTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCCACGAG
 CAGCGGCCGTTGGTCCGGATCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGG
 GCAGGAGGAGGAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGGCCCTACTACAGC
 TCCTGGGCACTCTGGAGTATCACAAACCCATGGTGGTGGGAACGAAGAGGCGGAGGATGGCTCGGCGG
 GTGTCCGTGTGCTTACCTGTACCCCACTACAAGTCTCTGAAGCCGTGCCGTTCTTCTGGAGGGAAA
 GTGCCGCTTAAAGGAACTGCAGTTCCTCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCTTC
 CAGGACCCAGACCTGAGCTCCCTGCAGGCGGCTCTGCGTGTCTGGCCAAGCACCAGGATGGCCTCTGGC
 ACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGA
 GGCCGTGGTGGAGGGGACGGCATCCTGCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGC
 GACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGTGAGTGTGTGGACTCTGGGACCTGCAGCT
 CTGCCCTTGTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTACCAAGATGGGCTATGA
 GTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGTGGAGCCATCCATGCTGTGGTGTTCCTCGA
 GGAAGTCGCTGGACAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGTTGGCAAGGCTGGCACCAACA
 AGCCCCCAGGTGCCGGGAAGAGGGGCCAGGCTGGGGGCCGCCAGCTCCTCGAATGTGTTTGACTT
 CCTCAATGAAAAGCTGCAAGGTACAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGG
 AGCAAGGACATGTACCATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGG
 AGAAGATCGAGCGAACCCAGCGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCA
 TAGCGTGGCGTACGCCAGCTGCAGGAGAAGCTGGCAGGAGCCAGCGCCAGCTGGGGCAGCTCCGGGCT
 CAGGAAGCCGGCTGCAGCAGGAGCAGAGGAAGGCAGACCCACAAGAAGATGACTGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234319 representing NM_001195653
 Red=Cloning site Green=Tags(s)

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSLLAALDEER
 PGRQEDAEYQAFREAITAEVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYS
 SWGTLEYHNAMVVGTEEAEDGSAGVRVLYLPTKSLKPCPFLEGGKCRFKENCRFSGHQVVSLDELRF
 QDPDLSSLQAGSACLAKHQDGLWHAARITDVDNGYTTVKFDSLRLREAVVEGDGILPPLRTEATESDSDS
 DGTGDSSYARVVGSDAVDSGTCSSAFAGWEVHTRGIGSRLLTKMGYEFKGLGRHAEGRVEPIHAVVLP
 GKSLDQCVETLQKQTRVGKAGTNKPPRCRGRGARPGGRPAPRNVDFLNEKLQGGQAPGALEAGAAPARR
 SKDMYHASKSAKRALSRLRFQTEEKIERTQDIRSIQEALARNAGRHSVASAQLQEKLQLAGAQRQLGQLRA
 QEAGLQQEQRKADTHKKMTEF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001195653

ORF Size: 1533 bp

OTI Disclaimer: 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_001195653.1](#), [NP_001182582.1](#)

RefSeq Size: 1949 bp

RefSeq ORF: 1536 bp

Locus ID: 84619

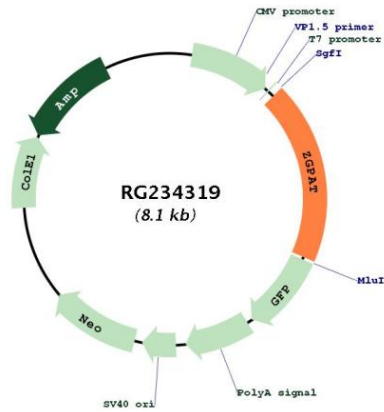
UniProt ID: [Q8N5A5](#)

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]

Product images:



Circular map for RG234319