

Product datasheet for **RG207439**

ZGPAT (NM_001083113) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | ZGPAT (NM_001083113) 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:

>RG207439 representing NM_001083113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGAGGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGGCAGCTGCAGCAGGTGGAGCTGGCCT
 TGGGCGCCGGCCTGGATTGCTCTGAGCAGGCTGACCTGCCAGCTGCAGGGGACCTGAAGGAGCTCAT
 CGAGCTACCCGAGGCCAGCCTGGTGTCTGTGAGGAAGAGCAGGTTGTTGGCCGCGCTGGACGAAGAGCGC
 CCGGGCCGCCAGGAAGATGCTGAGTACCAGGCTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCCACAG
 CAGCGGCCGTTGGTCCGGATCAGAGACCGTTCCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGG
 GCAGGAGGAGGAAGAGGGAGAGGACGAGGAAGAGCTGAGTGGGACAAAGGTGAGCGGCCCTACTACAGC
 TCCTGGGCACTCTGGAGTATCACAAACCCATGGTGGTGGGAACGAAGAGGCGGAGGATGGCTCGGCGG
 GTGTCCGTGTGCTTACCTGTACCCCACTACAAGTCTCTGAAGCCGTGCCGTTCTTCTGGAGGGAAA
 GTGCCGCTTAAAGGAACTGCAGGTTCTCCCATGGGCAGGTGGTCTCTCTGGATGAGCTGCGCCCTTC
 CAGGACCCAGACCTGAGCTCCCTGCAGGCGGCTCTGCGTGTCTGGCCAAGCACCAGGATGGCCTCTGGC
 ACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTTGACTCGCTGCTGCTGAGGGA
 GGCCGTGGTGGAGGGGACGGCATCCTGCCCCACTGCGCACAGAGGCCACAGAGTCCGACTCAGACAGC
 GACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGTGAGTGTGTGGACTCTGGGACCTGCAGCT
 CTGCCCTTGTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTACCAAGATGGGCTATGA
 GTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGTGGAGCCATCCATGCTGTGGTGTTCCTCGA
 GGAAGTCGCTGGACAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGTTGGCAAGGCTGGCACCAACA
 AGCCCCCAAGTCCGGGGAAGAGGGGCCAGGCTGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTT
 CCTCAATGAAAAGCTGCAAGGTACAGGCTCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGG
 AGCAAGGACATGTACCATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGG
 AGAAGATCGAGCGAACCCAGCGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCA
 TAGCGTGGCGTACGCCAGCTGCAGGAGAAGCTGGCAGGAGCCAGCGCCAGCTGGGGCAGCTCCGGGCT
 CAGGAAGCCGGCTGCAGCAGGAGCAGAGGAAGGCAGACACCCACAAGAAGATGACTGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207439 representing NM_001083113
 Red=Cloning site Green=Tags(s)

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSRLLAALDEER
 PGRQEDAEYQAFREAITAEVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYS
 SWGTLEYHNAMVVGTEEAEDGSAGVRVLYLPTHKSLKPCPFLEGGKCRFKENCRFSGHQVVSLDELRF
 QDPDLSSLQAGSACLAKHQDGLWHAARITDVDNGYYTVKFDLREAVVEGDGILPPLRTEATESDSDS
 DGTGDSYARVVGSDAVDSGTCSSAFAGWEVHTRGIGSRLLTKMGYEFKGLGRHAEGRVEPIHAVVLP
 GKSLDQCVETLQKQTRVGKAGTNKPPRCRGRGARPGRPAPRVDFLNEKLQGGAPGALEAGAAPAGRR
 SKDMYHASKSAKRALSRLRFQTEEKIERTQDIRSIQEALARNAGRHSVASAQLQEKLQAGLQGLRA
 QEAGLQEQRKADTHKKMTEF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001083113

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_001083113.1](#), [NP_001076582.1](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1536 bp

Locus ID: 84619

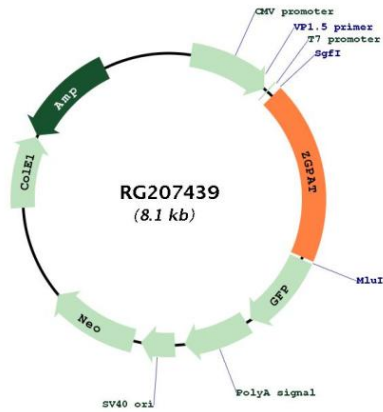
UniProt ID: [Q8N5A5](#)

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]

Product images:



Circular map for RG207439