

Product datasheet for **RR203531**

Zgpat (NM_001009656) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zgpat (NM_001009656) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zgpat
Synonyms:	RGD1310801
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR203531 representing NM_001009656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAGGACAACCTAGAGACTGCCCTGCAGACCTACCGGCCAGCTTCAGCAAGTAGAGCTGGCCG
 TCGGTGCTGGCCTAGACGCTTCTGAGCAGGCGGACCTGCCAGCTGCAGGGCGATCTAAAAGAATTGAT
 CGAGCTACCGAGGCCAGCCTGTTGTCGGTCAGGAAGAGCAAGCTGCTATCTACAGTGGACCAGGAGCAC
 CAAGAAGATGCTGAGTACTTGGCTTTCCAGAAGGCTATAGCGGAGGAAGCACCCGTTGACCCCGGAATG
 ACTCGAAGACGGTCCCTGGGAGCGAGGTGCAGCCGACCCACCTCCTCTGCACTGGAGGAAGAGGAAGA
 GGACCCAGATCTGGAGGATCTGAGCGGTGCTAAAGTGAATGCCCCCTACTACAGCGCGTGGGGCACGCTA
 GAGTATCACACGCCATGGTTGTTGGCGCCGAAGAGGCGGAGGATGGTTCTGCGTGCCTCGGGTACTCT
 ACCTATACCTACCCACAAGTCCCTGAAGCCCTGCCGTTCTTCTCGAGGGAAAGTGCCGTTCAAGGA
 GAACTGCAGGTTTTCCCATGGCCAGTTGGTATCTGTGGATGAGCTGCGTCCCTTCCAGGATCCAGACTTA
 AGCTTACTACAGACTGGCTCTGCATGTCTGGCCAAGCACCAGGATGGCCTTTGGACCCAGCACGGATCA
 CTGATGTGGACAATGGCTACTATACTGTTAAGTTTGACTCGTTGCTGCTGAAAGAGGCTGTGGTGGAGGG
 GGACAGCATCCTGCCTCCTACGCACTGAGGCTACAGATTATCTGACTCAGACACTGGTATGCAAGT
 GACTCCAGCTATGCCAGAGTGGTGAAGCAAACACAGTGGACACTGGGACCTGCAGTTCTGCCTTTGCTG
 GCTGGGAGGTACACACACGGGGCATTGGCTCCAACTCCTCGTCAAGATGGGCTATGAGTTTGGCAAGGG
 TTTGGGCCGCATGCAGAAGGCCGGTGGAGCCCATCCATGCTGTAGTGTGCCTAGAGGGAAATCACTG
 GACCACTGCGCAGAGATACTGCAGAAGAAGCAAAGCAAGGCCAGACTGGTCCAGCAGGCTCCAAGAT
 GTCGGAGGAGGAGTAGTAGACTGAGGGCCGCCACCCCTCGGAATGTGTTTGAATGAAAA
 ACTGCAAAGCCAGGTTCTGGGACCCAGATGCTGGAGTGGATACCCAGAGAGAAGGAACAAGACATG
 TATCATGCCAGCAAGAGTGCCAAGCAGGCTTTGAGCCTGCAGCTCTTCCAGACTGAGGAGAAGATAGAGC
 GGACCCAGCGGCATCCGGGGCATCCAGGAGGCCCTAACCCGCAACTGGCCGGCATGGTATGGCGAC
 AGCCCATCTGCAGGAGAAGCTGGAGGGAGCCAGCGGCAGCTGGGTGAGTGCCTGCTCAGGAGGCCGAC
 CTACAGAGGAAACAGCGGAAGGCAGACTCACAGGAAGATGACGGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203531 representing NM_001009656
 Red=Cloning site Green=Tags(s)

MDEDNLETALQTYRAQLQQVELALGAGLDASEQADLRQLQGDLKELIELTEASLLSVRKSLLLSTVDQEH
 QEDA EYLAFQKAI AEEAPVDPGNSKTVPGSEVQPTPTSSALEEEEEEDPDLEDLSGAKVNAPYYSAWGL
 EYHNAMVVGAEAEEDGSACVRVLYLYPTHKSLKPCPFLEGGKCRFKENCRF SHGQLVSVDEL RPFQDPDL
 SLLQTGSACLAKHQDGLWHPARITDVDNGYTVKFDLSLLKEAVVEGDSILPPLRTEATDSSDSDTGDAS
 DSSYARVVEANTVDTGTCSSAFAGWEVHTRGIGSKLLVKMGYEFKGLGRHAEGRVEPIHAVVLPKSL
 DQCAEILQKTKQGQTGASRPPRCRRSSRPEGRPPRNVDLNEKLQSQVPGTPDAGVDPERRNKDM
 YHASKSAQALSLQLFQTEEKIERTQRDIRGIQEALTRNTGRHGMATAHLQEKLEGAQRQLGQLRAQEAD
 LQRKQRKADTHRKMTEF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001009656

ORF Size: 1521 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_001009656.1, NP_001009656.1
RefSeq Size: 1930 bp

RefSeq ORF: 1524 bp

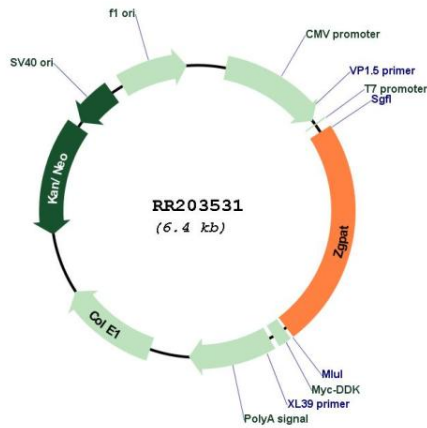
Locus ID: 296478

UniProt ID: Q5PPF5
Cytogenetics: 3q43

MW: 56.2 kDa

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR203531