

## Product datasheet for **MR208211**

### Zgpat (NM\_144894) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zgpat (NM_144894) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zgpat
Synonyms:	1500006I01Rik; BC021513
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208211 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACGAGGACAACCTAGAGACTGCCCTGCAGACCTACCGGCCAGCTGCAGCAGGTAGAGCTGGCGC  
 TCGGTGCTGGCCTAGACGCTTCTGAGCAGGCGGACCTGCGTCAGCTGCAGGGCGATCTAAAGGAGCTGAT  
 TGAGCTCACCGAGGCCAGCCTGTTGTGCGTCCAGAAAGAGCAAGCTGCTGTCTACAGTGGACCAGGAGAGC  
 CCAGCTCAAGAGGATGCTGAGTACCTGGCTTCCAGAAGGCCATTGCGGAGGAAGTGAAGCGCCCGCGC  
 CCCCCTGCAATGACTCGGAGACGGCCCCTGGGAGCGAGGTGCAGCCGGGATCCACCTCCTCTGCACTGGA  
 GGAGGAGGAGGAGGCCAGATCTGGAGAACTGAGCGGTGCTAAAGTGAATGCCCCCTACTACAGCGCT  
 TGGGGCACGCTGGAGTATCACACGCTATGGTAGTGGGCGCCGAAGAGCGGAGGATGGTTCTGCGTGCG  
 TCCGAGTCTCTACCTATACCTACCCACAAGTCCCTGAAGCCCTGTCCGTTCTTCTGGAGGGAAAGTG  
 CCGGTTCAAGGAGAACTGCAGGTTCTCCATGGCAGGTGGTATCTGTGGATGAGCTGCGTCCCTTTCAG  
 GATCCAGACTTAAGCTTACTGCAGACTGGCTCTGCATGTCTGGCCAAGCACCAGGATGGCCTGTGGCACC  
 CAGCACGGATCACTGATGTGGACAATGGCTACTATACCGTTAAGTTTGACTCATTGCTGTGTAAGGAGGC  
 TGTAGTGGAGGGGACAGCATCCTGCCTCCTCTGCGCACTGAGGCTACAGAGTCACTGACTCAGACACT  
 GGTGATGCAAGTACTCCAGCTATGCCAGAGTGGTGAACCAAGCACGGTGGACACTGGGACCTGCAGTT  
 CTGCCTTTGCTGGCTGGGAGGTACACACACGGGGCATTGGCTCCAACCTCCTCGTCAAGATGGGCTATGA  
 GTTTGGCAAGGGTTTGGCCGGCATGCAGAAGGCCGGTGGAGCCCATCCATGCTGTAGTGTTCCTAGA  
 GGGAAATCACTGGACAGTGTGCAGAGATACTGCAGAAGAAGACAAGCGAGGCCAGGCTGGTCCAACA  
 GGCTCCAAAATGCCGGAGGAGTGGTAGACTGAGGGCCGCCACCCCGGAATGTGTTTACTT  
 TTTGAATGAAAAACTGCAAAGCCAGTTCTTGGGACCCAGATGCTGGGGTGGATACCCAGAGAGAAGG  
 AACAAAGACATGTATCACGCCAGCAAGAGCGCCAAGCAGGCTTTGAGCCTGCAGCTCTTCCAGACTGAGG  
 AGAAGATTGAGCGGACCAACGGGACATCCGGGCATCCAGGAGGCCCTAACCCGGAACACTGGCCGGCA  
 CAATATGACGACAGCCCATCTGCAGGAGAAGCTGGAGGGAGCCAGCGGCAGCTGGGTGAGTGCCTGCT  
 CAGGAGGCTGACCTACAGAGGAAACAGCGGAAGGCAGACACTCACAGGAAGATGACAGAGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208211 protein sequence  
 Red=Cloning site Green=Tags(s)

MDEDNLETALQTYRAQLQQVELALGAGLDASEQADLRQLQGDLKELIELTEASLLSVRKSLLSTVDQES  
 PAQEDAELYLAFQKAIIEVEEAPGAPCNDSETAPGSEVQPGSTSSALEEEEEEDPDLEELSGAKVNAPYYSA  
 WGTLEYHNAMVVGAEAEEDGSACVRVLYLYPTHKSLKPCPFLELGKCRFKENCRF SHGQVVSVDLRFQ  
 DPDL SLLQTSACLAKHQDGLWHPARITDVDNGYYTVKFDL LK EAVVEGDSILPPLRTEATESSDSDT  
 GDASDSSYARVVEPSTVDTGTCSAFAWEVHTRGIGSKLLVKMGYEFKGLGRHAEGRVEPIHAVVLP  
 GKSLDQCAEILQKTKRQAGSNRPPKRRSGSRPEGRPPPRNVDFLNEKLQSQVPGTPDAGVDPERR  
 NKDMYHASKSAKQALSLQLFQTEEKIERTQRDIRGIQEALTRNTGRHNMTTAHLQEKLEGAQRQLGQLRA  
 QEADLQRKQRKADTHRKMTEF

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_144894

**ORF Size:** 1536 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\\_144894.3](#), [NP\\_659143.1](#)
**RefSeq Size:** 2289 bp

**RefSeq ORF:** 1536 bp

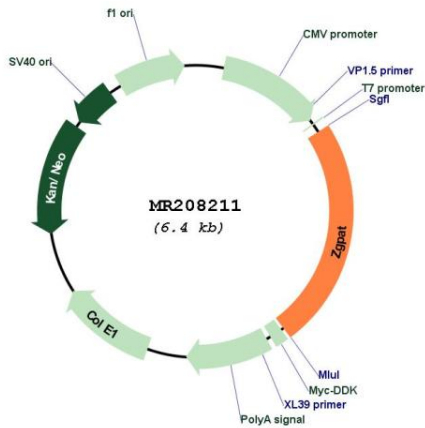
**Locus ID:** 229007

**UniProt ID:** [Q8VDM1](#)
**Cytogenetics:** 2 H4

MW: 56.4 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 MR208211