

Product datasheet for **MG208211**

Zgpat (NM_144894) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zgpat (NM_144894) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zgpat
Synonyms:	1500006I01Rik; BC021513
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208211 representing NM_144894
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAGGACAACCTAGAGACTGCCCTGCAGACCTACCGGCCAGCTGCAGCAGGTAGAGCTGGCGC
 TCGGTGCTGGCCTAGACGCTTCTGAGCAGGCGGACCTGCGTCAGCTGCAGGGCGATCTAAAGGAGCTGAT
 TGAGCTCACCGAGGCCAGCCTGTTGTGCGTCCAGAAAGAGCAAGCTGCTGTCTACAGTGGACCAGGAGAGC
 CCAGCTCAAGAGGATGCTGAGTACCTGGCTTCCAGAAGGCCATTGCGGAGGAAGTGAAGCGCCCGCGC
 CCCCCTGCAATGACTCGGAGACGGCCCCTGGGAGCGAGGTGCAGCCGGGATCCACCTCCTCTGCACTGGA
 GGAGGAGGAGGAGGCCAGATCTGGAGAACTGAGCGGTGCTAAAGTGAATGCCCCCTACTACAGCGCT
 TGGGGCACGCTGGAGTATCACACGCTATGGTAGTGGGCGCCGAAGAGCGGAGGATGGTTCTGCGTGCG
 TCCGAGTCTCTACCTATACCTACCCACAAGTCCCTGAAGCCCTGTCCGTTCTTCTGGAGGGAAAGTG
 CCGGTTCAAGGAGAACTGCAGGTTCTCCATGGCAGGTGGTATCTGTGGATGAGCTGCGTCCCTTTTCAG
 GATCCAGACTTAAGCTTACTGCAGACTGGCTCTGCATGTCTGGCCAAGCACCAGGATGGCCTGTGGCACC
 CAGCACGGATCACTGATGTGGACAATGGTACTATAACCGTTAAGTTTGACTCATTGCTGTGAAGGAGGC
 TGTAGTGGAGGGGACAGCATCCTGCCTCCTCTGCGCACTGAGGCTACAGAGTCACTGACTCAGACACT
 GGTGATGCAAGTACTCCAGCTATGCCAGAGTGGTGAACCAAGCACGGTGGACACTGGGACCTGCAGTT
 CTGCCTTTGCTGGCTGGGAGGTACACACACGGGCGATTGGCTCCAAACTCCTCGTCAAGATGGGCTATGA
 GTTTGGCAAGGGTTTGGCCGGCATGCAGAAGGCCGGTGGAGCCCATCCATGCTGTAGTGTTCCTAGA
 GGGAAACTACTGGACAGTGTGCAGAGATACTGCAGAAGAAGACAAGCGAGGCCAGGCTGGTCCAACA
 GGCTCCAAAATGCCGGAGGAGTGGTAGACCTGAGGGCCGCCACCCCGGAATGTGTTTACTT
 TTTGAATGAAAAACTGCAAAGCCAGTTCTGGGACCCAGATGCTGGGGTGGATACCCAGAGAGAAGG
 AACAAAGACATGTATCACGCCAGCAAGAGCGCCAAGCAGGCTTTGAGCCTGCAGCTCTTCCAGACTGAGG
 AGAAGATTGAGCGGACCAACGGGACATCCGGGCATCCAGGAGGCCCTAACCCGGAACACTGGCCGGCA
 CAATATGACGACAGCCCATCTGCAGGAGAAGCTGGAGGGAGCCAGCGGCAGCTGGGTGCTGCGTGCT
 CAGGAGGCTGACCTACAGAGGAAACAGCGGAAGGCAGACACTCACAGGAAGATGACAGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

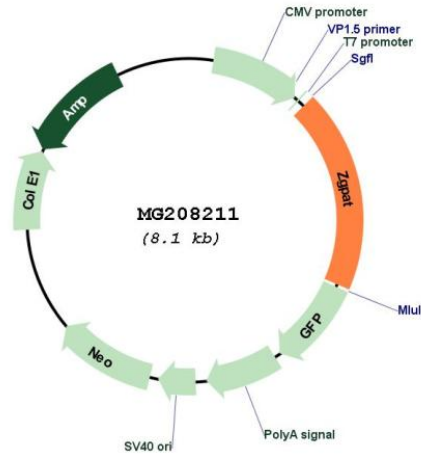
>MG208211 representing NM_144894
 Red=Cloning site Green=Tags(s)

MDEDNLETALQTYRAQLQQVELALGAGLDASEQADLRQLQGDLELIELTEASLLSVRKSLLSTVDQES
 PAQEDAELYLAFQKAIIEEVEAPGAPCNDSETAPGSEVQPGSTSSALEEEEEEDPDLEELSGAKVNAPYYSA
 WGTLEYHNAMVVGAEAEEDGSACVRVLYLYPTHKSLKPCPFLEGGKCRFKENCRFSGHQVVSVDLRFQ
 DPDL SLLQTGSACLAKHQDGLWHPARITDVGNGYYTVKFDL LKEAVVEGDSILPPLRTEATESSDSDT
 GDASDSSYARVVEPSTVDGTGCSAFAWEVHTRGIGSKLLVKMGYEFKGLGRHAEGRVEPIHAVVLP
 GKSLDQCAEILQKTKRQAGSNRPPKRRSGSRPEGRPPPRNVDFLNEKLQSQVPGTPDAGVDTERR
 NKDMYHASKSAKQALSLQLFQTEEKIERTQDIRGIEALTRNTGRHNMTAHLQEKLEGAQRQLGQLRA
 QEADLQRKQRKADTHRKMTEF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_144894

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:	<ol style="list-style-type: none">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
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]