

## Product datasheet for **MG208212**

### Zgpat (NM\_001048148) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zgpat (NM_001048148) 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:**

>MG208212 representing NM\_001048148  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACGAGGACAACCTAGAGACTGCCCTGCAGACCTACCGGCCAGCTGCAGCAGGTAGAGCTGGCGC  
 TCGGTGCTGGCCTAGACGCTTCTGAGCAGGCGGACCTGCGTCAGCTGCAGGGCGATCTAAAGGAGCTGAT  
 TGAGCTCACCGAGGCCAGCCTGTTGTCGGTCAGAAAGAGCAAGCTGCTGTCTACAGTGGACCAGGAGAGC  
 CCAGCTCAAGAGGATGCTGAGTACCTGGCTTTCCAGAAGGCCATTGCGGAGGAAGTGAAGCGCCCGCGC  
 CCCCCTGCAATGACTCGGAGACGGCCCCTGGGAGCGAGGTGCAGCCGGGATCCACCTCCTCTGCACTGGA  
 GGAGGAGGAGGAGGCCAGATCTGGAGAACTGAGCGGTGCTAAAGTGAATGCCCCCTACTACAGCGCT  
 TGGGGCACGCTGGAGTATCACACGCTATGGTAGTGGGCGCCGAAGAGCGGAGGATGGTTCTCGCTGCC  
 TCCGAGTCTCTACCTATACCTACCCACAAGTCCCTGAAGCCCTGTCCGTTCTTCTGGAGGGAAAGT  
 CCGGTTCAAGGAGAACTGCAGGTTCTCCATGGCAGGTGGTATCTGTGGATGAGCTGCGTCCCTTTTCAG  
 GATCCAGACTTAAGCTTACTGCAGACTGGCTCTGCATGTCTGGCCAAGCACCAGGATGGCCTGTGGCACC  
 CAGCACGGATCACTGATGTGGACAATGGCTACTATACCGTTAAGTTTGACTCATTGCTGTGAAGGAGGC  
 TGTAGTGGAGGGGACAGCATCCTGCCTCCTCTGCGCACTGAGGCTACAGAGTCACTGACTCAGACACT  
 GGTGATGCAAGTACTCCAGCTATGCCAGAGTGGTGAACCAAGCACGGTGGACACTGGGACCTGCAGTT  
 CTGCCTTTGCTGGCTGGGAGGTACACACACGGGCGATTGGCTCCAAACTCCTCGTCAAGATGGGCTATGA  
 GTTTGGCAAGGGTTTGGCCGGCATGCAGAAGGCCGGTGGAGCCCATCCATGCTGTAGTGTTCCTAGA  
 GGGAAACTCACTGGACAGTGTGCAGAGATACTGCAGAAGAAGACAAGCGAGGCCAGGCTGGTCCAACA  
 GGCTCCAAAATGCCGGAGGAGTGGTAGACCTGAGGGCCGCCACCCCGGAATGTGTTTACTT  
 TTTGAATGAAAAACTGCAAAGCCAGTTCTTGGGACCCAGATGCTGGGGTGGATACCCAGAGAGAAGG  
 AACAAAGACATGTATCACGCCAGCAAGAGCGCCAAGCAGGCTTTGAGCCTGCAGCTCTTCCAGACTGAGG  
 AGAAGATTGAGCGGACCAACGGGACATCCGGGCATCCAGGAGGCCCTAACCCGGAACACTGGCCGGCA  
 CAATATGACGACAGCCCATCTGCAGGAGAAGCTGGAGGGAGCCAGCGGCAGCTGGGTGCTGCGTGTCT  
 CAGGAGGCTGACCTACAGAGGAAACAGCGGAAGGCAGACACTCACAGGAAGATGACAGAGTTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208212 representing NM\_001048148  
 Red=Cloning site Green=Tags(s)

MDEDNLETALQTYRAQLQQVELALGAGLDASEQADLRQLQGDLELIELTEASLLSVRKSLLSTVDQES  
 PAQEDAELYLAFQKAIIEVEEAPGAPCNDSETAPGSEVQPGSTSSALEEEEEEDPDLEELSGAKVNAPYYSA  
 WGTLEYHNAMVVGAEAEEDGSACVRVLYLYPTHKSLKPCPFLEGGKCRFKENCRFSGHQVVSVDLRFQ  
 DPDL.SLLQTSACLAKHQDGLWHPARITDNDNGYYTVKFDL.LLKEAVVEGDSILPPLRTEATESSDSDT  
 GDASDSSYARVVEPSTVDGTCSAFAWEVHTRGIGSKLLVKMGYEFKGLGRHAEGRVEPIHAVVLP  
 GKSLDQCAEILQKTKRQAGSNRPPKRRSGSRPEGRPPPRNVDFLNEKLQSQVPGTDPDAGVDTERR  
 NKDMYHASKSAKQALSLQLFQTEEKIERTQRDIRGIEALTRNTGRHNMTAHLQEKLEGAQRQLGQLRA  
 QEADLQRKQRKADTHRKMTEF

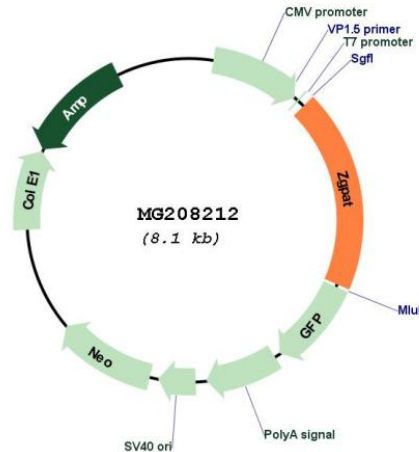
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



## Plasmid Map:



ACCN: NM\_001048148

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\\_001048148.1](#), [NP\\_001041613.1](#)

**RefSeq Size:** 2065 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]