

## Product datasheet for **MG221917**

### Zfp57 (NM\_001168502) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp57 (NM_001168502) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zfp57
Synonyms:	G19; Zfp-57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221917 representing NM_001168502 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCTAGGAAACAGCCATCCAGGACACCAGTCAGTTATGAGGACGTGGCAGTGTCTTTCACCCAGG  
AAGAATGGGAATATCTTACTTCTACACAGAAGACCCTTTACCAGAAAGTGATGTCAGAAACCTTCAAGAA  
CCTGACATTTGTCGGAAGCAAGAAGAAACCTCAAGAACCTAGCTCAGATCTGCAAGATAAGAACGAGGAG  
CAGGAGAAGTCTCCAGTGCACAGGGTATTCAAAGGTGGACCATTCTTTTTCTGTCTGACCTGTGGCA  
AATGTTTCAAAAAGAACACCTTCTCTTAATCACCAGTTTCTGTGAGGTCCCGGAGGCTGGCAGTCAC  
AAATCCACAAAGCCGCAAGGCAAGGGCTACAAGGCTCAGCATCGTGGAGAGAGGCTTTCTTTTGTAAAT  
TTCTGTGGCAAGACTTACCGTGATGCTTCTGGACTGAGCCGTACCCGACGTGCTCATTTAGGTTATAGGC  
CCCCTTATGCCCTGAGTGTGAAAAGTGTTCGGGATCAGTCTGAGGTCAACCGTCACTGAAGGTACA  
CCAAAACAAGCCAGCAGCTAGCAACCAGGCTGGCAACCAGGCTAGCAACCAGAGGCTGAAGAGTAGGGTT  
CCACCTACAACACCTAGATCCCAAGCGCCCGCCCTCAAGTATGTGAAAGTGATCCAGGGACCAGTGGCCA  
GGGCTAAGGCACGGAACAGCGGAGCCTCGACCTGAATGTCAGATCCAACCTATTACAGTGGTCCGTTT  
AAGAGAAAAGATCTTTGTCCCTATTGTACATAACGTTTACCATGAGAACCTGTCTCTTAACCCACCTC  
AAGATCCACTTCAGACGTCAACCAACCAGCACTTCTGCTGCAAAGAGTCGGCCCACTCAACACACAC  
TCAGAATGCAAAAAGATCTACACTTGCCCGTCTGTGACAGCTCCTTTAGGGGAAAGGAGAGCCTGCTGGA  
TCACTTGTGCTGCCAAAGACCAATCAGATTCAAGTAAATGCTGGGAAATCCTGGGTCAATTTGCTCGGCTAT  
CTTCATGAACCCGTGGTGTGGGAAATATTTTTAAAGTAAAGGACTCCTCGGAAAGAGGATGGAATCCA  
GGAGGAGAAGACGGAACGTGCCTGCACTGAGAATCCTGAAACAGAAGGCCTGTCTGGGAAAGGTAGGGT  
GGCTCCGTGGGAAATGGAGGGTCCACCAGCCCTGAGAGTCTGTGACAGAAGAAGATTCGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221917 representing NM\_001168502  
 Red=Cloning site Green=Tags(s)

MAARKQPSRTPVSYEDVAVSFTQEWEYLSTQKTL YQKVMSETFKNLTFVGSKPKKQPSPSSDLQDKNEE  
 QEKSSSCTGVFKGGPFFFLCTCGKCFKNTFLFNHQPVRSRRLAVTNPQSRKGGYKAQHRGERPFFCN  
 FCGKTYRDASGLSRHRAHLGYRPRSCPECGKCFRDQSEVNRHLKVHQNKPAASNQAGNQASNQRLKSRV  
 PPTTPRSQAPALKYVKVIQGPVARAKARNSGASTLNVRNSITVVRREKISCPYCHITFTMRTCLLTHL  
 KIHFRRQPNQHFCKESAHSSNTLRMQIYTCPVCDSSFRGKESLLDHLCCQRPPIRF SKWEILGHLLGY  
 LHEPVVLGNIKVRDSSGKRMSRRRRRKRAC TENPETEGLSGKGRVAPWEMEGATSPESPVTEEDSD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001168502

**ORF Size:** 1254 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\\_001168502.1](#), [NP\\_001161974.1](#)

**RefSeq Size:** 2088 bp

**RefSeq ORF:** 1257 bp

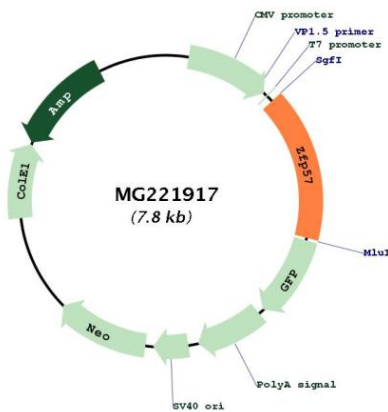
**Locus ID:** 22715

**UniProt ID:** [Q8C6P8](#)

**Cytogenetics:** 17

**Gene Summary:** Transcription regulator required to maintain maternal and paternal gene imprinting, a process by which gene expression is restricted in a parent of origin-specific manner by epigenetic modification of genomic DNA and chromatin, including DNA methylation. Acts by controlling DNA methylation during the earliest multicellular stages of development at multiple imprinting control regions. Required for the establishment of maternal methylation imprints at SNRPN locus. Acts as a transcriptional repressor in Schwann cells. Binds to a 5'-TGCCGC-3' consensus sequence and recognizes the methylated CpG within this element. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG221917