

## Product datasheet for **MR221916**

### Zfp57 (NM\_001168501) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp57 (NM_001168501) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfp57
Synonyms:	G19; Zfp-57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221916 representing NM\_001168501  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCTAGGAAACAGTCTTCCAGCCATCCAGGACACCAGTCAGTTATGAGGACGTGGCAGTGTCTT  
 TCAACCAGGAAGAATGGGAATATCTTACTTCTACACAGAAGACCCTTTACCAGAAAGTGATGTCAGAAAC  
 CTTCAAGAACCTGACATTTGTCGGAAGCAAGAAGAAACCTCAAGAACCTAGCTCAGATCTGCAAGATAAG  
 AACGAGGAGCAGGAGAAGTCTCCAGTTGCACAGGGGATTCAAAGGTGGACCATTCTTTTTCTGTCTGA  
 CCTGTGGCAAATGTTTCAAAAAGAACACCTTCTCTTAAATCACCAGTTTCTGTGAGGTCCCGGAGGCT  
 GGCAGTCACAAATCCACAAAGCCGCAAAGGCAAGGGCTACAAGGCTCAGCATCGTGGAGAGAGGCCTTTC  
 TTTTGTAAATTTCTGTGGCAAGACTTACCGTGATGCTTCTGGACTGAGCCGTCACCGACGTGCTCATTTAG  
 GTTATAGGCCCCGTTTCATGCCCTGAGTGTGAAAGTGTTCGGGATCAGTCTGAGGTCAACCGTCACT  
 GAAGGTACACAAAACAAGCCAGCAGCTAGCAACCAGGCTGGCAACCAGGCTAGCAACCAGAGGCTGAAG  
 AGTAGGGTTCACCTACAACACCTAGATCCAAGCGCCCGCCCTCAAGTATGTGAAAGTGATCCAGGGAC  
 CAGTGGCCAGGGCTAAGGCACGGAACAGCGGAGCCTCGACCCTGAATGTCAGATCCAACCTATTACAGT  
 GGTCCGTTCAAGAGAAAAGATCTCTTGTCCCTATTGTCACATAACGTTTACCATGAGAACCTGTCTCTTA  
 ACCCACCTCAAGATCCACTTCAGACGTCAACCCAAACCAGCACTTCTGCTGCAAAGAGTCGGCCCACTCAT  
 CCAACACACTCAGAAATGCAAAAGATCTACACTTGCCTGCTGTGACAGCTCCTTTAGGGGAAAGGAGAG  
 CCTGCTGGATCACTTGTGCTGCCAAGACCAATCAGATTCAGTAAATGCTGGGAAATCCTGGGTCATTTG  
 CTCGGCTATCTTCATGAACCCGTTGCTGGGAAATATTTTTAAAGTAAGGGACTCCTCGGAAAGAGGA  
 TGGAAATCCAGGAGGAGAAGACGGAACGTCCTGCACTGAGAATCCTGAAACAGAAGGCCGTCTGGGAA  
 AGGTAGGGTGGCTCCGTGGGAAATGGAGGGTCCACCAGCCCTGAGAGTCTGTGACAGAAGAAGATTCCG  
 GAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221916 representing NM\_001168501  
 Red=Cloning site Green=Tags(s)

MAARKQSSQPSRTPVSYEDVAVSFTQEWEYL TSTQKTL YQKVMSETFKNLTFVGSKKKPQEPSSDLQDK  
 NEEQEKSSSCTGVFKGGPFFFLTCGKCFKKNLFLFNHQFPVRSRRLAVTNPQSRKGGKYKAQHRGERPF  
 FCNFCGKTYRDASGLSRHRAHLGYRPRSCPECGKCFRDQSEVNRHLKVHQNKPAAASNQAGNQASNQRLK  
 SRVPPTTPRSQAPALKYVKVIQGPVARAKARNSGASTLNVRNSNITVVRREKISCPYCHITFTMRTCLL  
 THLKIHFRRQPNQHFCKESAHSNTLRMQKIYTCPVCDSSFRGKESLLDHLCCQRPPIRFKSCWEILGHL  
 LGYLHEPVVLGNIFKVRDSSGKRMSRRRRRKRACCTENPETEGLSGKGRVAPWEMEGATSPESPVTEEDS  
 D

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_001168501

**ORF Size:** 1263 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\\_001168501.1](#), [NP\\_001161973.1](#)
**RefSeq Size:** 1712 bp

**RefSeq ORF:** 1266 bp

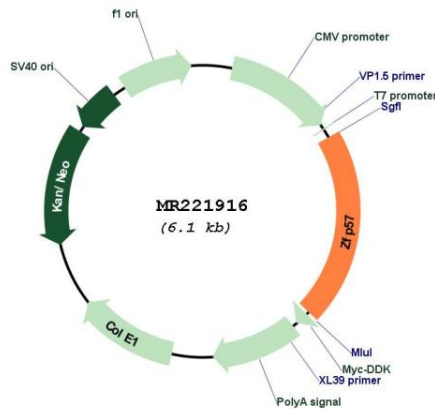
**Locus ID:** 22715

**UniProt ID:** [Q8C6P8](#)
**Cytogenetics:** 17

**MW:** 48.4 kDa

**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 MR221916