

## Product datasheet for **MG216949**

### Zic4 (NM\_009576) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Zic4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG216949 representing NM\_009576  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAAATACAAGACTTCCTGGTGATGAGGAAGCGTTACGGCTGTACAGAAACACTCTGAAAGAATCAA  
GTAGCAGCTGTGGACACCATGGGCCCCAGCTCGCCGCTTCTTGAACCCCTCCGTGCTTCCGGCCCTTCA  
CGAGCAGCCTCCTCAGGCCTCCACAGCCGCTCCTTTGAACGGACTCCTGCGTCTGGGGATCCCTGGAGAC  
ATGTATGCGAGGTCGGAACCTTTTGCACCAGGGCCTATGGCCCGCAGCGACACTCTGGCAACAGCCACAG  
CCCTGCACGGTTATGGCGGCATGAACCTGACCATGAACCTCACCGCACCCCATGGCCCTGGAGCCTTTTT  
CCGCTATATGCGCCAGCCCATCAAACAGGAGCTCATCTGCAAGTGGCTAGGGGATGACAGCCCGATGTCC  
CCGCGTCCCTGCTCCAAAACCTTTCAGCACCATGCACGAGCTGGTCACGCACGTCAGTGTGGAGCACGTCG  
GTGGCCAGAGCAGGCTAACACATTTGCTTCTGGGAGGAGTGTCCGCGACAGGGCAAGCCCTTCAAAGC  
CAAATACAACTTGTAATCACATCCGCGTGCACACGGGCGAGAAGCCCTTCCCTTGTCTTTCCAGGG  
TGTGGGAAGGCTTTGCTAGATCAGAAAACTCAAATAACAAAACGAACACATACAGGCGAGAAACCTT  
TCAGATGTGAGTTCGAGGGCTGTGAGAGGCGTTTCGCCAACAGCAGCGACCCGCAAGAAACATTTCGCACGT  
GCACACGAGCGACAAGCCTTATATGTGCAAGGTGCGCGGGTGTGACAAGTGTACACGCACCCCGACTCT  
CTGCGAAAGCACATGAAAGTTCATGGTCGCTCACCGCCACCCAGCTCTGGCTACGACTCGGCTATAACGT  
CTGCTCTCGCGTCGCCCTCGTTAGAAAGCGGCCGTGAGCCCTCAGTGGCTTGTCTGCGCGCGTGGTTGT  
GCGTGGCACAGACGTGAGCGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG216949 representing NM\_009576  
 Red=Cloning site Green=Tags(s)

MKYKTSLVMRKRLRLYRNTLKESSSSCGHHGPQLAASSNPSVLPGLHEQPPQASHSRPLNGLLRLGIPGD  
 MYARSEPFAPGPMARSDTLATATALHGYGGMNLTMNLTAPHGPAFFRYMRQPIKQELICKWLGDDSPMS  
 PRPCSKTFSTMHELVTHTVVEHVGGPEQANHICFWEECPRQKPKAKYKLVNHIRVHTGEKPFPCPFPG  
 CGKVFARSENLIKHKRTHTEKPFRCFEFECERRFANSSDRKKHSHVHTSDKPYMCKVRGCDKCYTHPSS  
 LRKHKMVKHGRSPPPSSGYDSAITLALASPSLESGREPSVACSAAVVVRGTDVSE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_009576

**ORF Size:** 1002 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_009576.2](#), [NP\\_033602.2](#)

**RefSeq Size:** 4088 bp

**RefSeq ORF:** 1005 bp

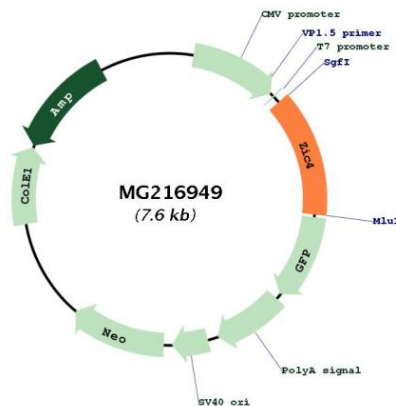
**Locus ID:** 22774

**UniProt ID:** [Q6I467](#)

**Cytogenetics:** 9 48.26 cM

**Gene Summary:** Binds to DNA. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216949