

Product datasheet for **MG215431**

Zfp568 (NM_001033355) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Zfp568
Synonyms:	C80731; chato; Gm1691; Znf568
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG215431 representing NM_001033355
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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 CTCCACCAGATGTACACACTGGGAGAAAGCCCAAGGTGAAGGAGTGTGGGAAAGGCTTCATCTCTG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

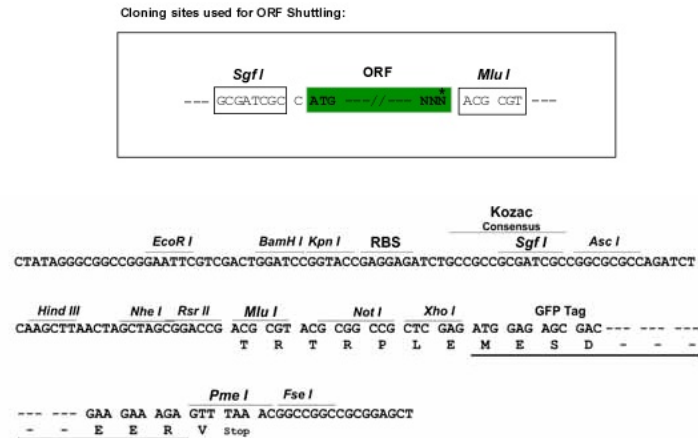
Protein Sequence: >MG215431 representing NM_001033355
 Red=Cloning site Green=Tags(s)

MERLSQMAGRRAWCAEDSVPRQEEEDRTRPSKTVTFKDVAVDLTQEEWQMKPAQRALYRDVMLETYSNL
 VTVGCQVTKPDVIFKLEQAEEPWVLEEMFWRRSPAARGRMKSF AFKDMAKDLRFEDVVIYFSLEEWEC
 RHSHRNL YRAVMLDNYSNLLSLSLADTKPRVVSLLLEQKEPMMVMRNETKIWHPDWVSRTEAKDSSIKT
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 KPQSAQGSERPHKCKEKGAFHTPSQLSHHQKLHVGEKPYKCQCEGKAFPSNAQLSLHHRVHTDEKCFEC
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 LHQMSHTGEKPHKCKEKGFISSHLLRHQSVHTGETPYKCKEKGFRRGSELARHQRAHSGDKPYK
 KECGKSFTCTTELFRHQKVHTGDRPHKCKEKGAFIRSELTHHERSHSSEKPYECKEKGTFGRGSELS
 RHQKIHTGEKPYKCQCGKAFIRGSHLTQHRIHTGRRSE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033355

ORF Size: 2010 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_001033355.3](#), [NP_001028527.2](#)

RefSeq Size: 7195 bp

RefSeq ORF: 2016 bp

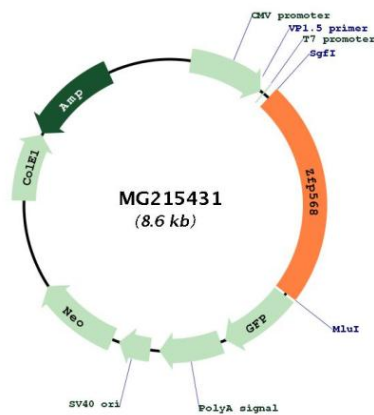
Locus ID: 243905

UniProt ID: [E9PYI1](#)

Cytogenetics: 7 B1

Gene Summary: Has transcriptional repression activity, partially through the recruitment of the corepressor TRIM28 but has also repression activity independently of this interaction (PubMed:22110054, PubMed:27658112). Essential during embryonic development, where it acts as direct repressor of IGF2-P0, placental-specific transcript of IGF2, in early development and regulates convergent extension movements required for axis elongation and tissue morphogenesis in all germ layers (PubMed:18701545, PubMed:22110054, PubMed:28522536). Also important for normal morphogenesis of extraembryonic tissues including the yolk sac, extraembryonic mesoderm and placenta (PubMed:18701545, PubMed:21094155). May enhance proliferation or maintenance of neural stem cells (PubMed:23071813).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215431