

## Product datasheet for **MG210212**

### Zp2 (NM\_011775) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Zp2 (NM_011775) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                               |
| Symbol:                   | Zp2                                    |
| Synonyms:                 | Zp-; Zp-2                              |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-AC-GFP (PS100010)                |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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ORF Nucleotide  
Sequence:

>MG210212 representing NM\_011775  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGAGGTGGCAGAGGAAAGCATCTGTAAGCTCTCCGTGCGGCAGGAGCATCTACAGGTTTCTTTCCC  
 TCTTATTCACCCTTGTGACTTCAGTGAACCTCAGTAAGCCTTCCTCAGTCCGAGAATCCTGCCTTCCCAGG  
 CACTCTCATTGTGACAAAGACGAAGTGAATAATTTCAAGCAGATTTGACATGGAAAAATGGAAT  
 CCTTCTGTGGTGGATACCCTTGGTAGTGAATTTTGAAGTGCCTTATGCTCTGGACTTGAAAAAGTTTCG  
 TCCTGAAGTTCCCTTACGAGACCTGCACTATAAAAGTGGTTGGTGGATACCAGGTGAACATCAGAGTGGG  
 GGACACCACCCTGATGTGAGATATAAAGATGACATGTATCATTCTTCTGTCCAGCTATCAAGCAGAG  
 ACCCATGAGATTTAGAAATTTGTGTCTGCAGGAGAGATCTAATATCTTTTTCTTCCCACAACCTTTCT  
 CTAGGCTTGTGATGAAAACCAGAAATGTATCTGAGATGGGATGGATTGTTAAGATTGGCAATGGTACAAG  
 AGCCACATTCTGCCCTGAAGGATGCCATAGTACAAGGATTTAATCTTCTGATTGACAGCCAGAAAAGTA  
 ACTCTCCACGTGCCAGCCAATGCTACTGGAATAGTTCACTATGTGCAAGAGAGCAGCTATCTCTATACTG  
 TGCAGCTGGAGCTCTTGTCTCAACCCTGGGCAGAAGATCGTCTTCTCATCACACGCTATCTGCGCACC  
 AGATCTTCTGTGGCTTGAATGCTACACACATGACTCTCACTATACCAGAAATTCCTGGGAAGCTAGAG  
 TCTGTGGACTTTGGACAATGGAGCATCCCTGAGGACCAATGGCATGCCAATGGAATTGACAAAGAAGCAA  
 CAAATGGCTTGAGATTGAATTTAGAAAATCTCTCCTGAAAACCTGAAAAATGTCCATTCTA  
 CCAGTTCTACCTCTTCACTCAAGCTGACCTTCACTTCCAAGGGAACATGCTATCCACAGTGATAGAT  
 CCTGAGTGCCACTGTGAGTCACCAGTCTCTATAGATGAAGTGTGTGCACAGGATGGGTTTATGGACTTTG  
 AGGTCTACAGCCACCAAAACAAAACCCGCACTGAACCTGGACACCCTCCTGGTGGGAAATTCCTTTGCCA  
 GCCTATTTTCAAGGTGCAGTCTGTGGGGCTTGAAGGTTTACATACCTCTGAATGGATGTGGAACAAGG  
 CAGAAATTTGAAGGTGATAAAGTCATCTATGAGAATGAAATACATGCTCTCTGGGAAAACCCACCCTCCA  
 ACATTGTATTAGAAACAGCGAGTTCAGGATGACAGTAAGATGCTATTACATCAGAGACAGTATGCTACT  
 AAATGCCCATGTCAAAGGACATCCTTCTCCAGAGGCTTTGTAAAGCCAGGCCCACTGGTGTGGTCCCTA  
 CAAACATACCCAGACCAATCCTACCAACGGCTTACAGGAAGGATGAGTACCCTCTAGTGAGGTACCTCC  
 GCCAGCCAATCTACATGGAAGTGAAGTCTTGAGCAGGAACGATCCCAACATCAAGCTGGTCTTAGATGA  
 CTGCTGGGCAACTTCTTCTGAGGACCCGGCTCTGCGCCTCAGTGGCAGATTGTCATGGATGGCTGTGAA  
 TATGAACTGGACAACCTACCGCACTACTTCCACCCAGCTGGCTCCTCTGCAGCCATTCCGGTCACTACC  
 AGAGGTTTGTGATGTGAAGACTTTTGCCTTTGTATCAGAGGCACGGGGCTCTCCAGCCTGATCTACTCCA  
 CTGCAGTGCCTTGTGTAACCAAGTCTCTTGTACTCCCTCTGTGCTCTGTGACTTGCCTGCATCA  
 CTGAGGAGCAAACGAGAGGCCAAACAAAGAAGACACAATGACGGTTAGCCTTCCAGGACCTATTCTTTGC  
 TGTGAGATGTCTTTCATCCAAAGGTGTTGACCCAGCAGCTCTGAGATTACCAAGGATATTATTGCCAA  
 GGATATTGCTTCTAAAACATTGGGTGCTGTGGCTGCACTAGTGGGCTCAGCTGTCATTCTAGGCTTCATC  
 TGTTACCTGTATAAGAAAAGAACTATAAGGTTCAATCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210212 representing NM\_011775  
 Red=Cloning site Green=Tags(s)

MARWQRKASVSSPCGRSIYRFLSLLFTLVTSVNSVSLPQSENPAFPGTLICDKDEVRIEFSSRFDMEKWN  
 PSVVDTLGSEILNCTYALDLERFVLKFPYETCTIKVGGYQVNIIRVGDTTDVRVKDDMYHFFCPAIQAE  
 THEISEIVVCRDLISFSFPQLFSRLADENQNVSEMGWIVKIGNGTRAHILPLKDAIVQGFNLLIDSQKV  
 TLHVPANATGIVHYVQESSYLTVQLELLFSTTGQKIVFSSHAICAPDLVACNATHMTLTIPEFPGKLE  
 SVDFGQWSIPEDQWHANGIDKEATNGLRLNFRKSLKTKPSEKCPFYQFYLSSLKLTFFYFQGNMLSTVID  
 PECHCESPVSIDELCAQDGFMDFEVYSHQTKPALNLDTLVGNSSCQPIFKVQSVGLARFHIPLNGCGTR  
 QKFEGDKVIYENEIHALWENPPSNIIVFRNSEFRMTVRCYIYRDSMLLNAHVKGHPSPPEAFVKPGPLVVLV  
 QTPDQSYQRPYRKDEYPLVRYLRQPIYMEVKVLSRNDPNIKLVLDCCWATSSDPASAPQWQIVMDGCE  
 YELDNYRTTFHPAGSSAAHSGHYQRFDVKTFAFVSEARGLSSLIYFHCSALICNQVLSPLCSVTPCAS  
 LRSKREANKEDMTVSLPGPILLSDVSSSKGVDPSSEITKDI IAKDIAASKTLGAVAALVGSVILGFI  
 CYLYKKRTIRFNH

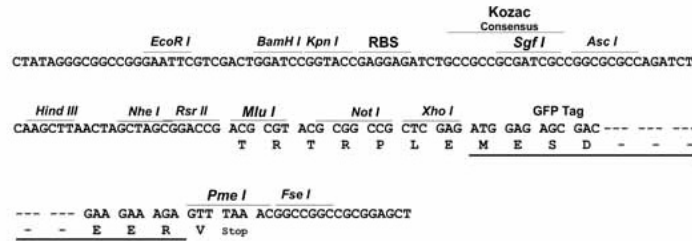
TRTRPLE - GFP Tag - V

Restriction Sites:

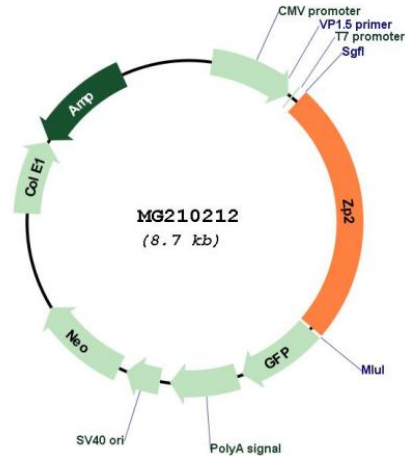
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_011775

ORF Size: 2139 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\\_011775.7](#)

RefSeq Size: 2200 bp

RefSeq ORF: 2142 bp

Locus ID: 22787

UniProt ID: [P20239](#)

Cytogenetics: 7 64.38 cM

**Gene Summary:** This gene encodes a member of the zona pellucida family of glycoproteins that play an important role in the survival of growing oocytes, successful fertilization and the passage of early embryos through the oviduct. The encoded preproprotein undergoes proteolytic processing to generate the mature polypeptide that is incorporated into the extracellular matrix surrounding mouse oocytes. Mice lacking the encoded protein develop defective zonae pellucidae that disrupt folliculogenesis, fertility and development. [provided by RefSeq, Sep 2016]