

Product datasheet for **MR210212**

Zp2 (NM_011775) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zp2 (NM_011775) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zp2
Synonyms:	Zp-; Zp-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210212 representing NM_011775
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAGGTGGCAGAGGAAAGCATCTGTAAGCTCTCCGTGCGGCAGGAGCATCTACAGTTTCTTTCCC
 TCTTATTCACCCTTGTGACTTCAGTGAACTCAGTAAGCCTTCCTCAGTCCGAGAATCCTGCCTTCCAGG
 CACTCTCATTGTGACAAAGACGAAGTGAATTTGAATTTTCAAGCAGATTTGACATGGAAAAATGGAAT
 CCTTCTGTGGTGGATACCTTGGTAGTGAATTTTGAAGTGCCTTATGCTCTGGACTTGAAAAGTTTCG
 TCCTGAAGTTCCCTTACGAGACCTGCACTATAAAAGTGGTTGGTGGATACCAGGTGAACATCAGAGTGGG
 GGACACCACCCTGATGTGAGATATAAAGATGACATGTATCATTCTTCTGTCCAGCTATTCAAGCAGAG
 ACCCATGAGATTTAGAAATTTGTCTGCAGGAGAGATCTAATATCTTTTTCTTCCACAACCTTTTCT
 CTAGGCTTGTGATGAAAACCAGAAATGTATCTGAGATGGGATGGATTGTTAAGATTGGCAATGGTACAAG
 AGCCACATTCTGCCCTGAAGGATGCCATAGTACAAGGATTTAATCTTCTGATTGACAGCCAGAAAAGTA
 ACTCTCCACGTGCCAGCCAATGCTACTGGAATAGTTCACTATGTGCAAGAGAGCAGCTATCTCTATACTG
 TGCAGCTGGAGCTCTTGTCTCAACCCTGGGCAGAAGATCGTCTTCTCATCACACGCTATCTGCGCACC
 AGATCTTCTGTGGCTTGAATGCTACACACATGACTCTCACTATACCAGAAATTCCTGGGAAGCTAGAG
 TCTGTGGACTTTGGACAATGGAGCATCCCTGAGGACCAATGGCATGCCAATGGAATTGACAAAGAAGCAA
 CAAATGGCTTGAGATTGAATTTAGAAAATCTCTCCTGAAAACCTGAAAAATGTCCATTCTA
 CCAGTTCTACCTCTTCACTCAAGCTGACCTTCACTTCCAAGGGAACATGCTATCCACAGTGATAGAT
 CCTGAGTGCCACTGTGAGTCACCAGTCTCTATAGATGAAGTGTGTCACAGGATGGGTTTATGGACTTTG
 AGGTCTACAGCCACCAAAACAAAACCCGCACTGAACCTGGACACCCTCCTGGTGGGAAATTCCTCTTGCCA
 GCCTATTTTCAAGGTGCAGTCTGTGGGGCTTGCAAGTTTTCACATACCTCTGAATGGATGTGGAACAAGG
 CAGAAATTTGAAGGTGATAAAGTCATCTATGAGAATGAAATACATGCTCTCTGGGAAAACCCACCCTCCA
 ACATTGTATTAGAAAACAGCGAGTTCAGGATGACAGTAAGATGCTATTACATCAGAGACAGTATGCTACT
 AAATGCCCATGTCAAAGGACATCCTTCTCCAGAGGCTTTGTAAGCCAGGCCCACTGGTGTGGTCCTA
 CAAACATACCCAGACCAATCCTACCAACGGCTTACAGGAAGGATGAGTACCCTCTAGTGAGGTACCTCC
 GCCAGCCAATCTACATGGAAGTGAAGTCTTGAGCAGGAACGATCCCAACATCAAGCTGGTCTTAGATGA
 CTGCTGGGCAACTTCTTCTGAGGACCCGGCTCTGCGCCTCAGTGGCAGATTGTCATGGATGGCTGTGAA
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 CTGCAGTGCCTTGATCTGTAACCAAGTCTCTTCTGACTCCCTCTGTGCTCTGTGACTTGCCTGCATCA
 CTGAGGAGCAAACGAGAGGCCAACAAGAAGACACAATGACGGTTAGCCTTCCAGGACCTATTCTTTGC
 TGTGAGATGTCTTTCATCCAAAGGTGTTGACCCAGCAGCTCTGAGATTACCAAGGATATTATTGCCAA
 GGATATTGCTTCTAAAACATTGGGTGCTGTGGCTGCACTAGTGGGCTCAGCTGTCATTCTAGGCTTCATC
 TGTTACCTGTATAAGAAAAGAACTATAAGGTTCAATCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210212 representing NM_011775
 Red=Cloning site Green=Tags(s)

MARWQRKASVSSPCGRSIYRFLSLLFTLVTSVNSVSLPQSENPAFPGLICDKDEVRIEFSSRFDMKWN
 PSVVDTLGSEILNCTYALDLERFVLKFPYETCTIKVVGGYQVNIIRVGDTTDVRVKDDMYHFFCPAIQAE
 THEISEIVVCRDLISFSFPQLFSRLADENQNVSEMGWIVKIGNGTRAHILPLKDAIVQGFNLLIDSQKV
 TLHVPANATGIVHYVQESSYLTYVQLELLFSTTGQKIVFSSHAICAPDLVACNATHMTLTIPFPGKLE
 SVDFGQWSIPEDQWHANGIDKEATNGLRLNFRKSLKTKPSEKCPFYQFYLSSLKLTFFYFQGNMLSTVID
 PECHCESPVSIDELCAQDGFMDFEVYSHQTKPALNLDTLVGNSSCQPIFKVQSVGLARFHIPLNGCGTR
 QKFEGDKVIYENEIHALWENPPSNIIVFRNSEFRMTVRCYIYRDSMLLNAHVKGHPSPPEAFVKPGPLVVL
 QTYPDQSYQRPYRKDEYPLVRYLRQPIYMEVKVLSRNDPNIKLVLDCCWATSSDPASAPQWQIVMDGCE
 YELDNYRTTFHPAGSSAAHSGHYQRFDVKTFAFVSEARGLSSLIYFHCSALICNQVLSPLCSVTPCAS
 LRSKREANKEDTMVSLPGPILLLLSDVSSSKGVDPSSEITKDIIAKDIASKTLGAVAALVGSVILGFI
 CYLYKKRTIRFNH

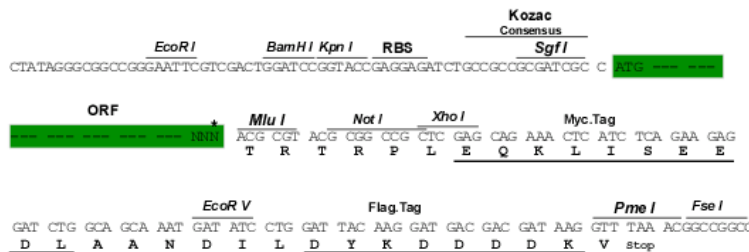
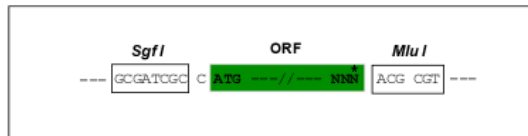
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011775

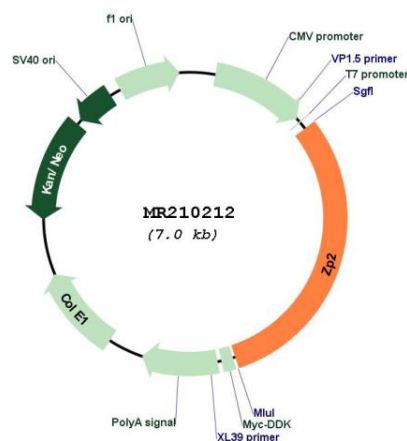
ORF Size: 2139 bp

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:	<ol style="list-style-type: none">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
MW:	80.7 kDa
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]

Product images:



Circular map for MR210212