

Product datasheet for **RG219115**

ZP2 (NM_003460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZP2 (NM_003460) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZP2
Synonyms:	OOMD6; Zp-2; ZPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219115 representing NM_003460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTGCAGGCAGAGAGGAGGCTCTTGAGTCCCTCAGGCTGGTTCAATGCAGGCTGGAGCACCTACA
 GGTCGATTTCTCTCTTCTCGCCCTTGACTTCAGGAACTCCATAGATGTTTCTCAGTTGGTAAATCC
 TGCCCTTCCAGGCACTGTCACTTGCAGTAAAGGGAAATAACAGTGGAGTCCCAAGCAGTCTGGCACC
 AAGAAATGGCATGCATCTGTGGTGGATCCTCTGGTCTCGACATGCCAACTGCCTTACATCCTGGACC
 CAGAAAAGCTCACCTGAGGGCTACCTATGATAACTGTACCAGGAGAGTGCATGGTGGACACCAGATGAC
 CATCAGAGTCATGAACAACAGTGTGCCTTAAGACACGGAGCTGTATGTATCAGTTCTTCTGTCCAGCT
 ATGCAAGTAGAAGAGACCAGGGGCTTTCAGCATCTACAATCTGCCAGAAGGATTCATGTCTTTTTCT
 TGCCACGGGTCTTCTCTGGCTGGCTGACGACAGTAAGGGGACCAAAGTTCAGATGGGATGGAGCATTGA
 GGTGGTGGTGGTGAAGAGCCAAAACCTGACCTGCCAGAGGCCATGAAGGAAGGCTTCAGCCTCTTG
 ATTGACAACCACAGGATGACCTTCATGTGCCATTCAATGCCACTGGAGTGACTCACTATGTGCAAGGTA
 ACAGTCATCTCTACATGGTGTCTCTGAAGCTTACATTTATATCTCCTGGACAGAAGGTGATCTTCTCTTC
 ACAAGCTATTTGTGCACCAGATCCTGTGACCTGCAATGCCACACACATGACTCTCACCATACCAGAGTTT
 CCTGGGAAGCTTAAAGTCTGTGAGCTTTGAAAACCAAGAATTGATGTGAGCCAGCTGCATGACAATGGAA
 TTGATCTAGAAGCAACAATGGCATGAAATTCATTTAGCAAACTCTGCTCAAACGAAATATCTGA
 AAAATGCCTACTCCATCAGTTCTACTTAGCTTCACTCAAGCTGACCTTTCTCCTTCGGCCAGAGACAGTA
 TCCATGGTGCATCTCCTGAGTGTCTGTGAGTACCCGTTTCTATAGTTACAGGGGAGCTGTGCACCC
 AGGATGGGTTTATGGACGTCGAGGTCTACAGCTACCAACACACAGCCTTTGACCTGGGTACTGAG
 GGTGGGAAACTCATCCTGCCAGCCTGTCTTTGAGGCTCAGTCTCAGGGGCTGGTACGGTTCCACATACCC
 CTGAATGGATGTGGAACGAGATATAAGTTCGAAGATGATAAAGTCGTCTATGAAAACGAAATACATGCTC
 TCTGGACGGATTTTCTCCAAGCAAAATATCTAGAGACAGTGAAGTTCAGAATGACAGTGAAGTGTCTTA
 TAGCAGGAATGACATGCTACTAAACATCAACGTTGAAAGCCTTACTCCTCCAGTGGCCTCAGTGAAGTTG
 GGTCCATTTACCTTGATCCTGCAAAGCTACCCAGATAATTCTACCAACAACCTTATGGGAAAACGAGT
 ACCCTCTAGTGAGATTCCTCCGCCAACCAATTTACATGGAAGTGAGAGTCTAAACAGGGATGACCCCAA
 CATCAAGCTGGTCTTAGATGACTGCTGGCGACGTCACCATGGATCCAGACTCTTCCCCCAGTGGAAC
 GTTGTCTGGATGGCTGTGCATATGACCTGGACAACCTACCAGACCACCTCCATCCAGTCCGCTCCTCTG
 TGACCCATCCTGATCACTATCAGAGTTTGACATGAAGGCTTTTGCCTTTGTATCAGAAGCCACGCTGCT
 CTCTAGCCTGGTCTACTTCCACTGCAGTGCCTTAATCTGTAATCGACTCTCCCCTGACTCCCCACTGTGT
 TCTGTGACCTGCCCTGTCTCTCTAGGCACAGGCGAGCCACAGGGGCCACTGAAGCAGAGAAAATGACAG
 TCAGCCTCCCAGGACCCATTCTCCTGTTGTGAGTACTCCTCATTGAGAGGTGTCGGCTCATCTGATCT
 AAAAGCAAGTGGGAGCAGTGGGAGAAGAGTAGGAGTGAACAGGGGAGGAGGTTGGCTCACGAGGTGCT
 ATGGACACCAAGGGCACAAGACTGCTGGAGATGTTGGTTCCAAAGCTGTGGCTGCTGTGGCTGCCTTTG
 CAGGTGTGGTGGCAACTTAGGCTTCATCTACTACCTGTACGAGAAAAGGACTGTGTCAAATCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219115 representing NM_003460
Red=Cloning site Green=Tags(s)

```
MACRQRGGSWSPSGWFNAGWSTYRSISLFFALVTSGNSIDVSQLVNPAPPGTVCDEREITVEFPSSPGT
KKWHASVVDPLGLDMPNCTYILDPEKLTLRATYDNCTRRVHGGHQMTRVMNNSAALRHGAVMYQFFCPA
MQVEETQGLSASTICQKDFMSFSLPRVFSGLADDSKGTQVQMGWSEVGDGARAKTLTLPEAMKEGFSLL
IDNHRMTFHVFPNATGVTHYVQGNSHLYMVSCLKLTFISPGQKVFSSQAICAPDPVTCNATHMTLTIPEF
PGKLSVSFENQNIQVSLHDNGIDLEATNGMKLHFSTLLKTKLSEKLLHQFYLASLKLTLFLLRPETV
SMVIYPECLCESPVSIVTGELCTQDGFMDVEVYSYQTQPALDLGTLRVGNSSCQPVFEAQSQGLVRFHIP
LNGCGTRYKFEDDKVYVENEIHALWTDFFPPSKISRSEFRMTVKCSYSRNDMLLNINVESTPPVASVKL
GPFTLILQSPDINSYQQPYGENEYPLVRFRLRQPIYMEVRVLRDDPNIKLVLDCCWATSTMDPDSFPQWN
VVVDGCAYDLNRYQTTFFHPVGSVTHPDHYQRFDMKAFVSEAHVLSLVEYFHCALICNRLSPDSPLC
SVTCPVSSRHRRTGATEAEKMTVSLPGPILLLLSDDSSFRGVGSSDLKASGSSGEKSRSETGEEVGRGA
MDTKGHKTAGDVGSKAVAAVAAGVAVTLGFIYYLYEKRTVSNH
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003460

ORF Size: 2235 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_003460.2](#)

RefSeq Size: 2266 bp

RefSeq ORF: 2238 bp

Locus ID: 7783

UniProt ID: [Q05996](#)

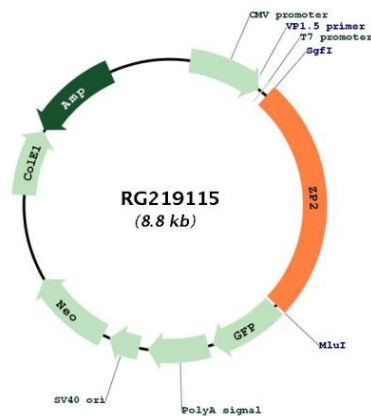
Cytogenetics: 16p12.3-p12.2

Domains: zona_pellucida

Protein Families: Secreted Protein, Transmembrane

Gene Summary: The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is composed of three glycoproteins with various functions during fertilization and preimplantation development. The glycosylated mature peptide is one of the structural components of the zona pellucida and functions in secondary binding and penetration of acrosome-reacted spermatozoa. Female mice lacking this gene do not form a stable zona matrix and are sterile. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RG219115