

Product datasheet for **RG239448**

ZP2 (NM_001290104) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZP2 (NM_001290104) 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)



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ORF Nucleotide
Sequence:

>RG239448 representing NM_001290104.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCGTGCAGGCAGAGAGGAGGCTTTGGAGTCCCTCAGGCTGGTTCAATGCAGGCTGGAGCACCTAC
AGGTCGATTTCTCTCTTCTTCCGCTTGTGACTTCAGGGAACCCATAGATGTTTCTCAGTTGGTAAAT
CCTGCCTTCCAGGCACTGTCACTTGCATGAAAGGGAAAATAACAGTGGAGTTCCCAAGCAGTCCCTGGC
ACCAAGAAATGGCATGCATCTGTGGTGGATCCTTGGTCTCGACATGCCGAACCTGCACTTACATCCTG
GACCCAGAAAAGCTCACCTGAGGGCTACCTATGATAACTGTACCAGGAGAGTGCATGGTGGACACCAG
ATGACCATCAGAGTCATGAACAACAGTGTGCCTTAAGACACGGAGCTGCATGTATCAGTTCTTCTGT
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AGCATTGAGGTTGGTGTGGTGAAGAGCCAAAACCTGACCCTGCCAGAGGCCATGAAGGAAGGCTTC
AGCCTCTTGATTGACAACCACAGGATGACCTTCCATGTGCCATTCAATGCCACTGGAGTGACTCACTAT
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CGGCCAGAGACAGTATCCATGGTGTATCTCCTGAGTGTCTCTGTGAGTCAACCGTTTCTATAGTTACA
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GAAAACGAAATACATGCTCTCTGGACGGATTTTCTCCAAGCAAAATATCTAGAGACAGTGAAGTTCAGG
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CTAAAAGCAAGTGGGAGCAGTGGGAGAGAGTAGGAGTAAAACAGGGGAGGAGTTGGCTCACGAGGT
GCTATGGACACCAAAGGGCACAAGACTGCTGGAGATGTTGGTTCCAAAGCTGTGGCTGCTGTGGCTGCC
TTTGCAGGTGTGGTGGCAACTTAGGCTTACTACTACCTGTACGAGAAAAGGACTGTGTCAAATCAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239448
 Blue=ORF Red=Cloning site Green=Tag(s)

MACRQRGGSWSPSGWFNAGWSTYRSISLFFALVTSNGSIDVSQLVNPAPPGTVCDEREITVEFPSSPG
 TKKWHASVVDPLGLDMPNCTYILDPEKLTLRATYDNCTRRVHGGHQMTIRVMNNSAALRHGAVMYQFFC
 PAMQVEETQGLSASTICQKDFMSFSLPRVFSGLADDSKGTKVQMGWSIEVGDGARAKTLTLPAMKEGF
 SLLIDNHRMTFHVPFNATGVTHYVQGNSHLYMVSLLKLFISPGQKVFSSQAICAPDPVTCNATHMTLT
 IPEFPGKLSVSVFENQIDVSQLHDNGIDLEATNGMKLHFSTLLKTKLSEKCLLHQFYLASLKLTFLL
 RPETVSMVIYPECLCESPVSIVTGELCTQDGFMDVEVSYQTQPALDLGTLRVGNSSCQPVFEAQSQGL
 VRFHIPLNGCGTRYKFEDDKVVYENEIHALWDFPPSKIIRDSEFRNDMLLNINVESLTPPVASVKLGP
 FTLILQSYPDNSYQPPYGENEYPLVRFRLRQPIYMEVRLNRDDPNIKLVLDCCWATSTMDPDSFPQWNV
 VVDGCAYDLDNQYQTFHVPVGSVTHPDHYQRFDMKAFVSEAHVLSL VYFHCSALICNRLSPDSPLC
 SVTCPVSSRHRRTGATEAEKMTVSLPGPILLSDSSFRGVGSSDLKASGSSGEKSRSETGEEVSGRG
 AMDTKGHKTAGDVGSKAVAAVAAGVAVATLGFIIYYLYEKRTVSNH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHPISILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290104

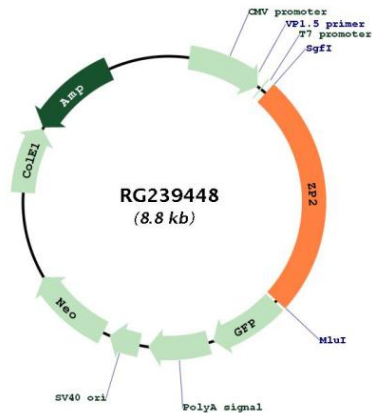
ORF Size: 2208 bp

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).
RefSeq:	<u>NM_001290104.1, NP_001277033.1</u>
RefSeq Size:	2722 bp
RefSeq ORF:	2211 bp
Locus ID:	7783
UniProt ID:	<u>Q05996</u>
Cytogenetics:	16p12.3-p12.2
Protein Families:	Secreted Protein, Transmembrane
MW:	81.8 kDa
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 RG239448