

Product datasheet for **SC337342**

ZP2 (NM_001290104) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZP2 (NM_001290104) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZP2
Synonyms:	OOMD6; Zp-2; ZPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001290104, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTGCAGGCAGAGAGGAGGCTCTTGGAGTCCCTCAGGCTGGTTCAATGCAGGCTGGAGCACCTACA
GGTCGATTTCTCTTCTTCCGCTTGTGACTTCAGGAACTCCATAGATGTTTCTCAGTTGGTAAATCC
TGCCTTTCCAGGCACTGTCACTTGGGATGAAAGGGAAATACAGTGGAGTCCCAAGCAGTCTGGCACC
AAGAAATGGCATGCATCTGTGGTGGATCCTTGGTCTCGACATGCCAACTGCACTTACATCCTGGACC
CAGAAAAGCTCACCTGAGGGCTACCTATGATAACTGTACCAGGAGAGTGCATGGTGGACACCAGATGAC
CATCAGAGTATGAACAACAGTGTGCCTTAAGACACGGAGCTGTATGTATCAGTTCTTCTGTCCAGCT
ATGCAAGTAGAAGAGACCCAGGGGCTTTCAGCATCTACAATCTGCCAGAAGGATTCATGTCTTTTTCT
TGCCACGGGTCTTCTGTGGCTGGCTGACGACAGTAAGGGGACCAAGTTCAGATGGGATGGAGCATTGA
GGTTGGTGTGGTGAAGAGCCAAAACCTGACCTGCCAGAGGCCATGAAGGAAGGCTTACGCCTTTG
ATTGACAACCACAGGATGACCTCCATGTGCCATTCAATGCCACTGGAGTACTCACTATGTGCAAGGTA
ACAGTCATCTCTACATGGTGTCTCTGAAGCTTACATTTATATCTCTGGACAGAAGGTGATCTTCTTTC
ACAAGCTATTTGTGCACCAGATCCTGTGACCTGCAATGCCACACACATGACTCTACCATACCAGAGTTT
CCTGGGAAGCTTAACTGTGTGAGCTTTGAAAACAGAACATTGATGTGAGCCAGCTGCATGACAATGGAA
TTGATCTAGAAGCAACAATGGCATGAAATTCATTTTCAGCAAACTCTGCTCAAAAACGAAATATCTGA
AAAATGCCTACTCCATCAGTTCTACTTAGCTTCACTCAAGCTGACCTTTCTCTTCCGCCAGAGACAGTA
TCCATGGTGTATCTCTGAGTGTCTCTGTGAGTACCCGTTTCTATAGTTACAGGGGAGCTGTGCACCC
AGGATGGGTTTATGGACGTCGAGGTCTACAGCTACCAACACAACCAGCTTTGACCTGGGTACTCTGAG
GGTGGGAACTCATCCTGCCAGCCTGTCTTTGAGGCTCAGTCTCAGGGGCTGGTACGGTTCCACATACCC
CTGAATGGATGTGGAACGAGATATAAGTTCGAAGATGATAAAGTCTATGAAAACGAAATACATGCTC
CTGGACGGATTTTCTCCAAGCAAAATATCTAGAGACAGTGAATTCAGGAATGACATGCTACTAAACAT
CAACGTTGAAAGCCTTACTCCTCCAGTGGCTCAGTGAAGTTGGGTCCATTTACCTTGATCCTGCAAAGC
TACCCAGATAATCCTACCAACAACCTTATGGGAAAACGAGTACCCTCTAGTGAGATTCCTCCGCCAAC
CAATTTACATGGAAGTGAGAGTCTAAACAGGGATGACCCCAACATCAAGCTGGTCTTAGATGACTGCTG
GGCGACGTCACCATGGATCCAGACTCTTCCCCAGTGGAACTTGTCTGGATGGCTGTGCATATGAC
CTGGACAACCTACCAGACCCTTCCATCCAGTCCGCTCCTCTGTGACCCATCCTGATCACTATCAGAGGT
TTGACATGAAGGCTTTTGCCTTTGTATCAGAAGCCACGTGCTCTAGCCTGGTCTACTCCACTGCAG
TGCTTAACTGTAACTGACTCTCCCTGACTCCCCTGTTCTGTGACCTGCCCTGTGTCTCTAGG
CACAGGGAGCCACAGGGGCCACTGAAGCAGAGAAAATGACAGTACGCTCCAGGACCCATTCTCTGT
TGTGACATGACTCCTCATTGAGGTTGTCGGCTCATCTGATCTAAAAGCAAGTGGGAGCAGTGGGGAGAA
GAGTAGGAGTGAACAGGGGAGGAGTTGGCTCACGAGGTGCTATGGACCCAAAGGGCACAAGACTGCT
GGAGATGTTGGTTCCAAAGCTGTGGCTGCTGTGGCTGCCCTTTCAGGTGTGGTGGCAACTTAGGCTTCA
TCTACTACCTGTACGAGAAAAGGACTGTGTCAAATCACTAA
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Restriction Sites: Sgfl-MluI

ACCN: NM_001290104

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001290104.1](#), [NP_001277033.1](#)

RefSeq Size: 2722 bp

RefSeq ORF: 2211 bp

Locus ID: 7783

UniProt ID: [Q05996](#)

Cytogenetics: 16p12.3-p12.2

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1.