

Product datasheet for **SC111059**

ZP2 (NM_003460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZP2 (NM_003460) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZP2
Synonyms:	OOMD6; Zp-2; ZPA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003460, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTGCAGGCAGAGAGGAGGCTCTTGGAGTCCCTCAGGCTGGTTCAATGCAGGCTGGAGCACCTACA
GGTCGATTTCTCTCTTCTCGCCCTTGACTTCAGGGAACCCATAGATGTTTCTCAGTTGGTAAATCC
TGCCTTTCCAGGCACTGTCACTTGCATGAAAGGGAAATAACAGTGGAGTTCCCAAGCAGTCTGGCACC
AAGAAATGGCATGCATCTGTGGTGGATCCTCTTGGTCTCGACATGCCGAACCTGCACTTACATCCTGGACC
CAGAAAAGCTCACCTGAGGGCTACCTATGATAACTGTACCAGGAGAGTGCATGGTGGACACCAGATGAC
CATCAGAGTCATGAACAACAGTGTGCCTTAAGACACGGAGCTGTATGTATCAGTTCTTCTGTCCAGCT
ATGCAAGTAGAAGAGACCCAGGGGCTTTTACGATCTACAATCTGCCAGAAGGATTTTATGTCTTTTTCT
TGCCACGGGTCTTCTCTGGCTTGGCTGACGACAGTAAGGGGACCAAGTTCAGATGGGATGGAGCATTGA
GGTTGGTGATGGTGAAGAGCCAAACTCTGACCCTGCCAGAGGCCATGAAGGAAGGCTTCAGCCTCTTG
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ACAGTCATCTCTACATGGTGTCTCTGAAGCTTACATTTATATCTCTGGACAGAAGGTGATCTTCTCTTC
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CCTGGGAAGCTTAAGTCTGTGAGCTTTGAAAACAGAACATTGATGTGAGCCAGCTGCATGACAATGGAA
TTGATCTAGAAGCAACAATGGCATGAAATTGCATTTAGCAAACTCTGCTCAAAACGAAATTATCTGA
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TCCATGGTGATCTATCCTGAGTGTCTCTGTGAGTACCCGTTTCTATAGTTACAGGGGAGCTGTGCCACC
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GGTGGGAACTCATCCTGCCAGCCTGTCTTTGAGGCTCAGTCTCAGGGGCTGGTACGTTCCACATACCC
CTGAATGGATGTGGAACGAGATATAAGTTCGAAGATGATAAAGTCGTCTATGAAAACGAAATACATGCTC
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GGTCCATTTACCTTGATCCTGCAAAGCTACCCAGATAATTCTACCAACAACCTTATGGGAAAACGAGT
ACCCTCTAGTGAGATTCTCCGCCAACCAATTTACATGGAAGTGAGAGTCTAACAGGGATGACCCCAA
CATCAAGCTGGTCTTAGATGACTGCTGGGCGACGTCCACCATGGATCCAGACTCTTCCCCCAGTGGAAC
GTTGTCGTGGATGGCTGTGCATATGACCTGGACAACCTACCAGACCACCTCCATCCAGTCGGCTCCTCTG
TGACCCATCCTGATCACTATCAGAGGTTTGACATGAAGGCTTTTGCCTTTGTATCAGAAGCCACGTGCT
CTCTAGCCTGGTCTACTTCCACTGCAGTGCCTTAATCTGTAATCGACTCTCCCCTGACTCCCCACTGTGT
TCTGTGACCTGCCCTGTGCTCTAGGCACAGGCAGGCCACAGGGGCCACTGAAGCAGAGAAAATGACAG
TCAGCCTCCCAGGACCCATTCTCTGTTGTGATGACTCCTCATTGAGAGGTGTCGGCTCATCTGATCT
AAAAGCAAGTGGGAGCAGTGGGAGAGAGTAGGAGTGAACAGGGGAGGAGGTTGGCTCACGAGGTGCT
ATGGACACCAAGGGCACAAGACTGCTGGAGATGTTGGTTCCAAAGCTGTGGCTGCTGTGGCTGCCTTTG
CAGGTGTGGTGGCAACTTAGGCTTCATCTACTACCTGTACGAGAAAAGGACTGTGTCAAATCACTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003460 unedited
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTGGTTGATCTGGTAGTG
 TCTTCTGCTATGGCGTGCAGGCAGAGAGAGGCTCTTGGAGTCCCTCAGGCTGGTTCAAT
 GCAGGCTGGAGCACCTACAGGTCGATTTCTCTCTTCTCGCCCTTGTGACTTCAGTGAAC
 TCCATAGATGTTTCTCAGTTGGTAAATCCTGCCTTCCAGGCACTGTCACTTGCGATGAA
 AGGGAAATAACAGTGGAGTTCCCAAGCAGTCCTGGCACCAAGAAATGGCATGCATCTGTG
 GTGGATCCTCTTGGTCTCGACATGCCGAAGTCACTTACATCCTGGACCCAGAAAAGCTC
 ACCCTGAGGGCTACCTATGATAACTGTACCAGGAGAGTGATGGTGGACACCAGATGACC
 ATCAGAGTCATGAACAACAGTGCTGCCTTAAGACACGGAGCTGTATGTATCAGTTCTTC
 TGTCCAGCTATGCAAGTAGAAGAGACCCAGGGGCTTTCAGCATCTACAATCTGCCAGAAG
 GATTTTCATGTCTTTTCTTCCACGGGTCTTCTCTGGCTTGGCTGATGACAGTAAGGGG
 ACCAAAGTTCAGATGGGATGGAGCATTGAGGTTGGTGATGGTGCAAGAGCCAAAAGTCTG
 ACCCTGCCAGAGGCCATGAAAGAAGGGCTTAGCCTCTTGATTGACAACCACAGGATGACC
 TTCCATGTGCCATTCCATGCCACTGGAGTGACTCACTATGTGCAAGGTGACAGTCATCTC
 TACATGGGGTCTCTGAGCCTACATTTATCTCTGGACAGAAGGGATCTTCTCTACAAG
 TATTTGTGCCCCATCCTGTGACCCGCATGCCACCACATGACTCTCACCTACCANAGGTT
 CTGGGAAGCTTAGTCTGGGACCTTGAAACCAAAAATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003460 unedited
 GTCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTTGACTGCTTTAT
 TTAGAAGCCCATTTAGTGATTTGACACAGTCCTTTTCTCGTACAGGTAGTAGATGAAGCC
 TAGAGTTGCCACCACACCTGCAAAGGCAGCCACAGCAGCCACAGCTTTGGAACCAACATC
 TCCAGCAGTCTTGTGCCCTTTGGTGTCCATAGCACCTCGTGAGCCAACCTCCTCCCTGT
 TTCACTCCTACTCTTCTCCCCACTGCTCCCACTTGCTTTTAGATCAGATGAGCCGACACC
 TCTGAATGAGGAGTCATCTGACAACAGGAGAATGGGTCCTGGGAGGCTGACTGTCATTTT
 CTCTGCTTCAGTGGCCCCTGTGGCTCGCCTGTGCCTAGAGGACACAGGGCAGGTCACAGA
 ACACAGTGGGGAGTCAGGGGAGAGTCGATTACAGATTAAGGCACTGCAGTGGAAGTAGAC
 CAGGCTAGAGAGCACGTGGGCTTCTGATACAAAGGCAAAAGCCTTCATGTCAAACCTCTG
 ATAGTGATCAGGATGGGTCACAGAGGAGCCGACTGGATGGAAGGTGGTCTGGTAGTTGTC
 CAGGTCATATGCACAGCCATCCACGACAACGTTCCACTGGGGGAAAGAGTCTGGATCCAT
 GGTGGACGTCGCCCAGCAGTCATCTAAGACCAGCTTGATGTTGGGGTCATCCCTGTTTAG
 GACTCTCACTTCCATGTAAATTGGNTTGGCGGAGGAATCTACTAGAGGGTACTCNGTTTC
 CCCATAAGGNTGNTGGTANGAAATATCTGGTAGCTTTCAGATCAGGTAAATGGACCCAC
 TTCACTGAGCCCTGGAGGAGTAGGCTNTCACGNTGATGTTANTACATGTCATTCTGCTAT
 AGACACTNCACTGCATCTGACTNACTGCTTAGATATTG

Restriction Sites:

NotI-NotI

ACCN:

NM_003460

Insert Size:

2260 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003460.1, NP_003451.1</u>
RefSeq Size:	2266 bp
RefSeq ORF:	2238 bp
Locus ID:	7783
UniProt ID:	<u>Q05996</u>
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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).