

Product datasheet for SC115652

ZP3 (NM_007155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZP3 (NM_007155) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZP3
Synonyms:	OOMD3; Zp-3; ZP3A; ZP3B; ZPC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115652 sequence for NM_007155 edited (data generated by NextGen Sequencing)

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ATGGTCATGGTCAGCAAAGACCTTTTTGGCACCAGGGAAGCTCATCAGGGCTGCTGACCTC
ACCTTGGGCCAGAGCCCTGTGAGCCTCTGGTCTCCATGGACACAGAAGATGTGGTCAGG
TTTGAGGTTGGACTCCACGAGTGTGGCAACAGCATGCAGGTAAGTACGATGCCCTGGT
TACAGCACCTTCTGCTCCATGACCCCCGCCCCGTGGGAAACCTGTCCATCGTGAGGACT
AACCGCGCAGAGATTCCCATCGAGTGCCGCTACCCAGGCAGGGCAATGTGAGCAGCCAG
GCCATCTGCCACCTGGTTGCCCTTCAGGACCACGGTGTCTCAGAGGAGAAGCTGACT
TTCTCTGCGTCTGATGGAGGAGAACTGGAACGCTGAGAAGAGGTCCCCACCTTCCAC
CTGGGAGATGCAGCCACCTCCAGGCAGAAATCCACACTGGCAGCCACGTGCCACTGCGG
TTGTTTGTGGACCACTGCGTGGCCACACCGACACCAGACCAGAATGCCTCCCCTTATCAC
ACCATCGTGGACTTCCATGGCTGTCTTGTGACGGTCTCACTGATGCCTTCTGCTGATTC
AAAGTTCTCGACCCGGCCAGATACACTCCAGTTCACAGTGGATGTCTTCCACTTTGCT
AATGACTCCAGAAACATGATATACATCACCTGCCACCTGAAGGTACCCTAGCTGAGCAG
GACCCAGATGAACTCAACAAGGCCTGTTCCCTCAGCAAGCCTTCCAACAGCTGGTTCCCA
GTGGAAGGCTCGGCTGACATCTGTCAATGCTGTAACAAAGGTGACTGTGGCACTCCAAGC
CATTCCAGGAGGCAGCCTCATGTGATGAGCCAGTGGTCCAGGTGCTGCTTCCCGTAACCGC
AGGCATGTGACAGAAGAAGCAGATGTACCCTGGGGCCACTGATCTTCTGGACAGGAGG
GGTGACCATGAAGTAGAGCAGTGGGCTTTGCCTTCTGACACCTCAGTGGTGTGCTGGCC
GTAGCCCTGGCTGTGGTGTGCTCCCTGACTCTGACTGCTGTTATCTGCTGTTCTCACCAGG
AGGTGTGCACTGCCTCCCACCCTGTGTCTGCTTCCGAATAA

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Clone variation with respect to NM_007155.5



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007155 unedited
 GTCTCTCACCCGCCCGTTGCCGCAAAGGGCGGTAGGCGGTACGGTGGAAGGTCTATAT
 AAGCAGAGCTCGTTTAGTGAACCGTCAAGATTTTGTAAATACGACTCACTATAGGGCGGCC
 GCGAATTCGGCACGAGGCTATAGGCTCTCATCTGCCCTCTGCTTGGGGTAGTACTGAG
 CTGTGCTACCCCCAACCCCTCTGGCTCTTGACAGGTGGAGCCAGCCATCCTGAGACGTCC
 GTACAGCCCGTACTGGTGGAGTGTGAGGAGCCACTCTGATGGTCATGGTCAGCAAAGAC
 CTTTTTGGCACCCGGGAAGCTCATCAGGGCTGCTGACCTCACCTTGGGCCAGAGGCCTGT
 GAGCCTCTGGTCTCCATGGACACAGAAGATGTGGTCAGGTTTGAGGTTGACTCCACGAG
 TGTGGCAACAGCATGCAGGTAACGACGATGCCCTGGTGTACAGCACCTTCTGCTCCAT
 GACCCCGCCCGTGGGAAACCTGTCCATCGTGAGGACTAACCGCGCAGAGATCCCATC
 GAGTGCCGCTACCCAGGCAGGGCAATGTGAGCAGCCAGGCCATCCTGCCACCTGGTTG
 CCCTTCAAGACCAGGTGTTCTCAGAGGAGAAGCTGACTTTCTCTGCGTCTGATGGAG
 GAGAACTGGAACGCTGAGAAGAGGTCCCCACCTCCACCTGAGAGATGCAGCCACCTC
 CAGGCAGAAATCCACACTGGCAGCCACGTGCCACTGCAGTTAGTTTGTAAACCACTGCGT
 GGCCACACCGACACCAGACCATGATGCCNCCCTATCACACCATCGTGGACTTCCATGG
 CTGCTTGTGCAGAGTCTCACTGATGCCCTTCTGCATTCAAAGTTCCTCGACCCGGGCC
 AGNTACACTNCAGTTCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007155 unedited
 CATCCGTTAGATCATCNGGCGATGGTCAACTTCCCAGTTCACGGGGAGAGGCACTGGAGG
 CAGGGGCTCACAGGGCATGCCACCCGGGTATCTGTTTCAGGAAAACAGCTATGACCCGGC
 CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTGCTTCTCTTTTATTCGGAAG
 CAGACACAGGGTGGGAGGCACTGCCACACCTCCTGGTGAACAGGATAACAGCAGTCA
 GAGTCAGGGACACCACAGCCAGGCCTACGCCAGCAGCACCCTGAGGTGTCAAAG
 GCAAAGCCCACTGCTCTACTTTCATGGTCAACCCCTCCTGTCCAGGAAGATCAGTGGCCCA
 CGGTGACATCTGCTTCTCTGTGCATGCCTGCGGTTACGGGAAGCAGACCTGGACCACT
 GGCTCATGACATGAGGCTGCCTCCTGGAATGGCTTGGAGTGCCACAGTCACTTTGTTAC
 AGCATTGACAGATGTGAGCCGAGCCTTCCACTGGGAACCATCTGTTGGAAGGCTTGTCTGA
 AGGAACAGGCCTGTTGAGTTCATCTGGGCTCCTGCTCAGTAGGGTGACCTTCAGGTGGC
 GGAGTGTATCTGGCCCGGGTCGAGGAACTTTGAATGCGAAGAGGCATCAGTGAGACCGT
 CGACAGACAGCCATGGAAGTTCATATGGTGTGATAAGGGGACGATTCTGGTCTGGTGT
 TCNGTGTGCCACGCAAGTGGTTCACACACACCCGAGTGGCACGTGGCTGCCAGTGTGGA
 TTTCTGCCCTGGAGTGCCTGCATCTCCAGGTGGAAGGTGGGGGACCTCTTTCAGCGT
 TTCAGTTCA

Restriction Sites:

NotI-NotI

ACCN:

NM_007155

Insert Size:

1500 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.

RefSeq: [NM_007155.4](#), [NP_009086.4](#)

RefSeq Size: 1467 bp

RefSeq ORF: 1122 bp

Locus ID: 7784

UniProt ID: [P21754](#)

Cytogenetics: 7q11.23

Protein Families: Secreted Protein, Transmembrane

Gene Summary: The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is composed primarily of three or four glycoproteins with various functions during fertilization and preimplantation development. The protein encoded by this gene is a structural component of the zona pellucida and functions in primary binding and induction of the sperm acrosome reaction. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a C-terminal consensus furin cleavage site, and a transmembrane domain. It is hypothesized that furin cleavage results in release of the mature protein from the plasma membrane for subsequent incorporation into the zona pellucida matrix. However, the requirement for furin cleavage in this process remains controversial based on mouse studies. A variation in the last exon of this gene has previously served as the basis for an additional ZP3 locus; however, sequence and literature review reveals that there is only one full-length ZP3 locus in the human genome. Another locus encoding a bipartite transcript designated POMZP3 contains a duplication of the last four exons of ZP3, including the above described variation, and maps closely to this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' CDS compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1.