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Product datasheet for RC239448

ZP2 (NM_001290104) Human Tagged ORF Clone

Product data:

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

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ORF Nucleotide Sequence:

>RC239448 representing NM_001290104
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTGCAGGCAGAGAGGAGGCTCTTGGAGTCCCTCAGGCTGGTTCAATGCAGGCTGGAGCACCTACA
GGTCGATTTCTCTCTTCTTCGCCCTTGTGACTTCAGGGAACTCCATAGATGTTTCTCAGTTGGTAAATCC
TGCCTTTCCAGGCACTGTCACTTGCGATGAAAGGGAAATAACAGTGGAGTTCCCAAGCAGTCCTGGCACC
AAGAAATGGCATGCATCTGTGGTGGATCCTCTTGGTCTCGACATGCCGAACTGCACTTACATCCTGGACC
CAGAAAAGCTCACCCTGAGGGCTACCTATGATAACTGTACCAGGAGAGTGCATGGTGGACACCAGATGAC
CATCAGAGTCATGAACAACAGTGCTGCCTTAAGACACGGAGCTGTCATGTATCAGTTCTTCTGTCCAGCT
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ATTGACAACCACAGGATGACCTTCCATGTGCCATTCAATGCCACTGGAGTGACTCACTATGTGCAAGGTA
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CAACGTTGAAAGCCTTACTCCTCCAGTGGCCTCAGTGAAGTTGGGTCCATTTACCTTGATCCTGCAAAGC
TACCCAGATAATTCCTACCAACAACCTTATGGGGAAAACGAGTACCCTCTAGTGAGATTCCTCCGCCAAC
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CTGGACAACTACCAGACCACCTTCCATCCAGTCGGCTCCTCTGTGACCCATCCTGATCACTATCAGAGGT
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CACAGGCGAGCCACAGGGGCCACTGAAGCAGAGAAAATGACAGTCAGCCTCCCAGGACCCATTCTCCTGT
TGTCAGATGACTCCTCATTCAGAGGTGTCGGCTCATCTGATCTAAAAGCAAGTGGGAGCAGTGGGGAGAA
GAGTAGGAGTGAAACAGGGGAGGAGGTTGGCTCACGAGGTGCTATGGACACCAAAGGGCACAAGACTGCT
GGAGATGTTGGTTCCAAAGCTGTGGCTGCTGTGGCTGCCTTTGCAGGTGTGGTGGCAACTCTAGGCTTCA
TCTACTACCTGTACGAGAAAAGGACTGTGTCAAATCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

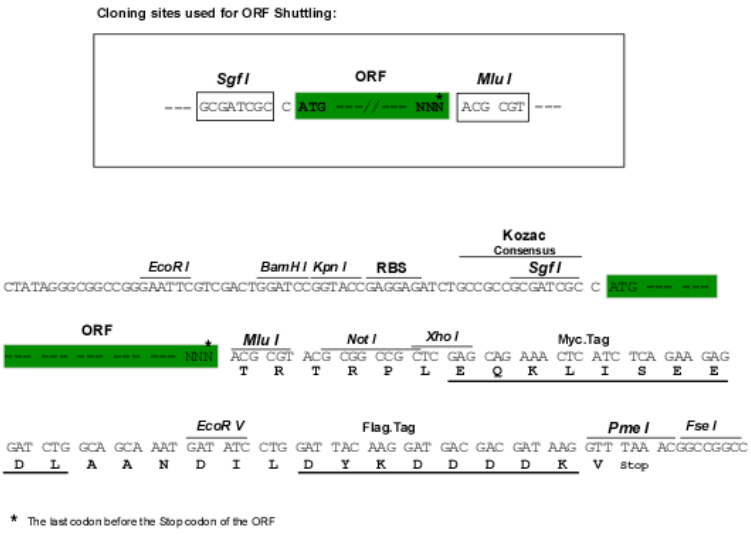
>RC239448 representing NM_001290104
Red=Cloning site Green=Tags(s)

MACRQRGGSWSPSGWFNAGWSTYRSISLFFALVTSGNSIDVSQLVNPAFPGTVTCDEREITVEFPSSPGT
KKWHASVVDPLGLDMPNCTYILDPEKLTLRATYDNCTRRVHGGHQMTIRVMNNSAALRHGAVMYQFFCPA
MQVEETQGLSASTICQKDFMSFSLPRVFSGLADDSKGTKVQMGWSIEVGDGARAKTLTLPEAMKEGFSLL
IDNHRMTFHVPFNATGVTHYVQGNSHLYMVSLKLTFISPGQKVIFSSQAICAPDPVTCNATHMTLTIPEF
PGKLKSVSFENQNIDVSQLHDNGIDLEATNGMKLHFSKTLLKTKLSEKCLLHQFYLASLKLTFLLRPETV
SMVIYPECLCESPVSIVTGELCTQDGFMDVEVYSYQTQPALDLGTLRVGNSSCQPVFEAQSQGLVRFHIP
LNGCGTRYKFEDDKVVYENEIHALWTDFPPSKISRDSEFRNDMLLNINVESLTPPVASVKLGPFTLILQS
YPDNSYQQPYGENEYPLVRFLRQPIYMEVRVLNRDDPNIKLVLDDCWATSTMDPDSFPQWNVVVDGCAYD
LDNYQTTFHPVGSSVTHPDHYQRFDMKAFAFVSEAHVLSSLVYFHCSALICNRLSPDSPLCSVTCPVSSR
HRRATGATEAEKMTVSLPGPILLLSDDSSFRGVGSSDLKASGSSGEKSRSETGEEVGSRGAMDTKGHKTA
GDVGSKAVAAVAAFAGVVATLGFIYYLYEKRTVSNH

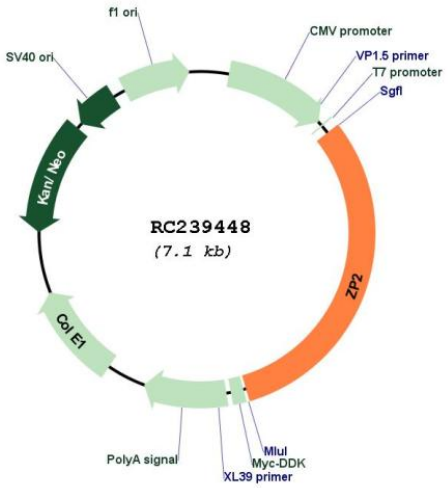
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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
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]