

## Product datasheet for **RR213850**

### Zp4 (NM\_172330) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zp4 (NM_172330) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zp4
Synonyms:	Zp-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR213850 representing NM\_172330  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTAGGCAGGCTCTAAGGAGCACTCTGTGGCTTCTACCAAGCATCTTACTGTGTTTCCATTCTGTC  
 TTCCTTTGAGTGGCCAGCATGTTACCGAGTTGCCAGGTGTCTCCACTGTGGTTACAGAGCTTCCAGTT  
 TGCTGTGAACCTCAGCCTGGAGGCAGAGAGTCCCTGTGCTAACAACTTGGGATAGCCAAGGCTGCCACAC  
 AGGCTTAAGAATGACTCTGACTGTGGTACATGGGTGATGGACAGTCTGATGGCTTTCTGGTCTTGGAAAG  
 CCAGCTACAGTGGCTGCTATGCTACTCTGGAGGGATCCCACTACATCATGACCGTTGGTGTGCAAGAGGC  
 AGATGTAGCTGGACATGTAGCAGGAACAAGACAAAGACTGCTTACGTGCCCTTTGGCTCTTCAGGGTAAA  
 GCCCCAGATACACCAAGTCTAAAGTGTGCAGTCTGTGCCAGTAAAGGAAAGGCTGCCCTGTGCTTCTCT  
 CGACCATCTCCAGAGGAGACTGTGAAGAGTTGGGGTGTGCTACAGCTCTGAAGAGGAAGGGGCAGACTC  
 CTGTTACTATGGAAACACAGTGAACCTCCATTGCACCAAGGAGGGCCACTTTTCCATTGTGTGTCAGG  
 GACGTGACCTCGCCCCCTCTGCGCTTGGATTCACTTCGCTTAGGTTTCCAGAACATCACCACAGGGTGTG  
 ATCCTGTGATGAAAACATCCACCTTTGTCTGTTCCAATTTCCACTTACTTCTGTGGGACTACACAGCG  
 GATCACTGGAGACCAGGCCATGTATGAAAATGAGCTAGTGCCATTCCGGGATGTACAAGCATGGGGCAGA  
 AGCTCTATTACTAGAGACAGCAACTTCAGGCTCCGAGTCAGTGCACGTAATCCATTACAGCATCATGT  
 CCCCAGTTAACAATGCAAGTGTGGACTCTCCACCACCCCTTCTAAGACCCAGCCCGACCCCTCTCTCT  
 GGAAGTTCAGATTGCCAGGATAAAAACTACAGCTTACTACGGTACTGATGCCTACCCACTGGTAAAA  
 TTCTCCAGGATCCCATTTACGTGGAGGTCTCCATCCTTATAGAACAGACCCCTCGTTGAGCCTGCTGC  
 TAGAGCAATGTTGGCTACACCTGGCTTAATCCTTTTTCATCAACCACAATGGCCAATCCTAGTGAAGGG  
 ATGCCCATATGCTGGAGACAATTATCAGACCAAAGGATCCCGGTTCCAGAAAGCATCAGATGTCTTTCCA  
 TCTCATATCAGCGCTTCAAGTATCTCTACCTTCAAGTCTCATGAGTGTGGAAGGGAAGCAGGTTTTGG  
 GTGGACAGGTATACCTGCACTGCAGTGCATCGGTCTGCCAGCCTGCTGGGATGCCATCCTGCACGGTTAT  
 CTGTCTGCTTCCAGGAGAAGAAGAAAATCTGAGCTTTATTTTGATAACTCCACCAGCATATCTAGCAAA  
 GGTCCCGTATCCTCCTCAAGCCACTAAGGACCTGCAGTATGCTTATAAACAATCAGGCACCCATG  
 CAGATTCTCCACTCTGTGGTAATGGGACTTTCTGCAAGCATGGTCATCACTGGAGTCTTGGTAGTATC  
 CTACTTGGCCACCAGGAAACAGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213850 representing NM\_172330  
 Red=Cloning site Green=Tags(s)

MARQALRSTLWLLPSILLCFPFCLPLSQHVTELPVGLHCGLQSFQFAVNLSEAESPVLTWDSQGLPH  
 RLKNDSDCGTWMDSPDGFVLVEASYSYGYVTEGSHYIMTVGVQEADVAGHVAGTRQRLTCLPLALQGG  
 APDTPSAKVCSPVPKERLPCASSTISRGDCEELGCCYSSEEGADSCYYGNTVTSHTCKEGHFSIAVSR  
 DVTSPPLRLDSLRLGFRNITGCDPVMKTSTFVLFQFPLTSCGTTQRITGDQAMYENELVAIRDVQAWGR  
 SSITRDSNFRLRVSTYSIHSIMSPVNMQVWTLPPPLPKTQPGPLSLELQIAQDKNYSSYYGTDAYPLVK  
 FLQDPIYVEVSIHLHRTDPSLSLLEQCWATPGSNPFHQWPILVKGCPYAGDNYQTKRIPVQKASDVFP  
 SHHQRFISITFSFMSAGREKQVLGGQVYLHCSASVCQPAGMPSCVTICPASRRRRKSEL YFDNSTSISSK  
 GPVILLQATKDPVMLHKHSGTHADSPTLWVMGLSASMVITGVLVVSYLATRKQR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_172330

ORF Size: 1635 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\\_172330.3](#), [NP\\_758833.2](#)

RefSeq Size: 1708 bp

RefSeq ORF: 1638 bp

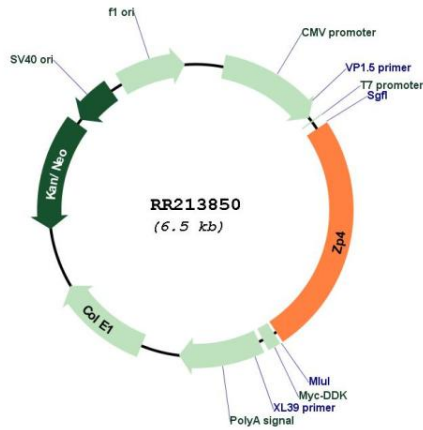
Locus ID: 282833

Cytogenetics: 17q12.1

**MW:** 59.8 kDa

**Gene Summary:** displays increased mRNA expression in ovary during follicle formation [RGD, Feb 2006]

**Product images:**



Circular map for RR213850