

## Product datasheet for **RC239750**

### **ZNF281 (NM\_001281293) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ZNF281 (NM_001281293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF281
Synonyms:	GZP1; ZBP-99; ZBP99; ZNP-99
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239750 representing NM\_001281293  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAATCGGCAGTGGGTTCTGAGTGGCGCGGAGGTACCGCAGTAGCGGTGGTAGCGGCTCCGGCG  
 GCGGTGGTAGTGGCGCGCGCGCGCGGCAGCAGCGCAGGAGGGCAGAGATGGAACCCACCTTTCC  
 CCAGGGTATGTTTATGTTCAACCACCGTCTTCCCCGGTCACCAGCTTCACCCGGCCGGCGGGTTCGGCC  
 GCCCTCCCCGCAATGCGTGTATCCTCCTACCTCCGAGCCCGCGCGTGAAGCCCCCTCCGC  
 CAGCCCCGGACATGACTTTCAAGAAGGAGCCGGCGGCTCAGCCGCGGCTTCCCCTCGCAGAGGACCTC  
 CTGGGGTTCTTGCAGTCTTGGTTAGCATCAAACAGGAGAAACCCGCGGATCCTGAGGAGCAGCAGTCC  
 CACCACCACCATCACCACCACCTATGGGGGGCTGTTGCTGGAGCTGAAGAGAGGTCTCCAGGCTAG  
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 ACCAGCCAGCACCACCGTACGATTACTCAGCAGCAGTAGCAGGACTGATGACCACCATGGCACTGAG  
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 AGAGGAAGCCAAGTGCATCTTCCAAACCTTCTTTGGTTGGAGATGGAGAAGGTGCCATCCTCTCCCAAG  
 TCAGAAACCTCATATCTGTGATCACTGTAGTGCTTTCCGAAGCTCCTATCACCTGCGGAGACATGTC  
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 GTCTCCCAACAGTCTGTCACTCAGTCTGCAGGTGTCAGTGTGTTGGACAATGAGGCACCATTGTCACCTA  
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 ACAAAGTATTTGGATCAATACTCCAACAAATCAGAAAGCCAGAAAGAGGATCCTTTCAATATTGCAGAA  
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 TCGGGCAGCAGGGTGCCAATGACCTTTACTACTAATCTAATGGAGAAGTGGACCATAGAGTAAGGACTT  
 CAGTGTGAGATTTCTCAGGGTATACAAATATGATGTCTGATGTAAGTGAAGTGCATGATGTAAGTGAAGTAA  
 GACACCCACCAGCCAGAGTTACAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239750 representing NM\_001281293  
 Red=Cloning site Green=Tags(s)

MKIGSGFLSGGGGTGSSGGSGSGGGGGSGGGGGSSGRRRAEMEPTFPQGMVMFNHRLPPVTSFTRPAGSA  
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 HHHHHHHHYGGLFAGAERSPLGGGEGGSHGVIQDLILHQHVQQPAQHHRDVLLSSSSRTDDHHGTE  
 EPKQDTNVKKAKRPKPE SQGIKAKRKPSASSKPSLVGDGEGAILSPSQKPHICDHCSAAFSSYHLRRHV  
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 GKTNESQISNNINMQSYSEMPTVSSSGGIIGTGIDELQKRVPKLIFKKGSRKNTDKNYLNFVSPLPDIV  
 GQKSLSGKPSGLGIVSNNVETIGLLQSTSGKQGQISSNYDDAMQFSKKRRYLPTASSNSAFSINVGHM  
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 NHTLFPEKQIYTTSPLECGFQSVTSVLPSSLKPPFGMLFGSQPGLYLSALDATHQQLTPSQELDDLID  
 SQKNLETSSAFQSSQKLT SQEQKNLESSTGFQIPSQELASQIDPQKDIEPRTTYQIENFAQAFGSQFK  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

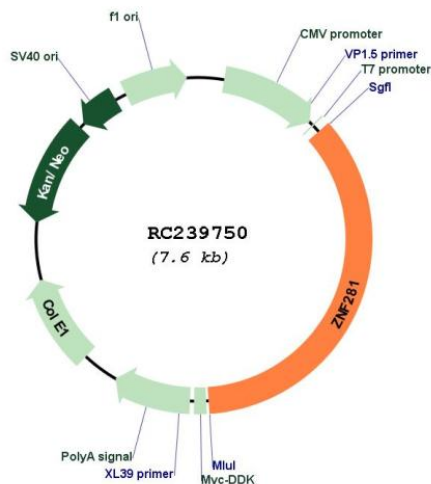
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001281293

ORF Size: 2685 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\\_001281293.2](#)

RefSeq Size: 4908 bp

RefSeq ORF: 2688 bp

Locus ID: 23528

UniProt ID: [Q9Y2X9](#)

Cytogenetics: 1q32.1

<b>Protein Families:</b>	ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transcription Factors
<b>MW:</b>	97.4 kDa
<b>Gene Summary:</b>	Transcription repressor that plays a role in regulation of embryonic stem cells (ESCs) differentiation. Required for ESCs differentiation and acts by mediating autorepression of NANOG in ESCs: binds to the NANOG promoter and promotes association of NANOG protein to its own promoter and recruits the NuRD complex, which deacetylates histones. Not required for establishment and maintenance of ESCs (By similarity). Represses the transcription of a number of genes including GAST, ODC1 and VIM. Binds to the G-rich box in the enhancer region of these genes.[UniProtKB/Swiss-Prot Function]