

Product datasheet for **RC239697**

ZNF281 (NM_001281294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF281 (NM_001281294) 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:

>RC239697 representing NM_001281294
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAATCGGCAGTGGGTTCTGAGTGGCGGCGGAGGTACCGGCAGTAGCGGTGGTAGCGGCTCCGGCG
GCGGTGGTAGTGGCGGCGCGCGCGGCAGCAGCGGCAGGAGGGCAGAGATGGAACCCACCTTTCC
CCAGGCCCGGCGCTGAGCCCCCCTCCGCCAGCCCCGGACATGACTTTCAAGAAGGAGCCGGCGGCG
TCAGCCGCGGCTTCCCCTCGCAGAGGACCTCCTGGGGTTCTTGCAGTCTTTGGTTAGCATCAAACAGG
AGAAACCCCGGGATCCTGAGGAGCAGCAGTCCCACCACCACCATCACCACCACCTATGGGGGCTGTT
CGCTGGAGCTGAAGAGAGGTCTCCAGGCCAGGAGCGGTGAAGGGGGAGTACGGCGTCATCCAGGAC
CTCAGTATTCTCCACCAGCATGTCCAGCAGCAACCAGCCAGCACCACCGTGACGTATTACTCAGCAGCA
GTAGCAGGACTGATGACCACCATGGCACTGAGGAGCCAAAGCAGGACACTAATGTCAAAAAGGCAAAAAG
GCCAAAGCCAGAATCTCAGGGAATCAAAGCCAAGAGGAAGCCAAGTGCATCTTCCAAACCTCTTTGGTT
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TCCGAAGCTCCTATCACCTGCGGAGACATGTCCTCATTACACAGGAGAAAGACCTTTCCAGTGCAGCCA
GTGTAGTATGGGTTTCATTACAGAAATACCTACTACAGAGACATGAGAAAATTCATAGTAGAGAGAAGCCA
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CAGGCGCACATGTGGTGAAGTCATAGTTAAAGGAGCCACTAGTGCAGAACCTGGGTCATCAAACCATACC
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GCATAGCTATTGAAAATAAGGAACAGAAGACCGGTAACAACAAATGAATCGCAAATTTCAAATAATATAAA
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GAACTGCAGAAGAGGGTCCAAAATTGATCTTTAAGAAAGGAAGCAGAAAGAATACAGATAAAAACTACC
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TGTTTTGGACAATGAGGCACCATTGTCACTTATTGACTCCTCAGCTCTAAATGCTGAAATTAATCTTGT
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TCTCAGGAGTTAGCTAGCCAGATAGATCCTCAGAAAGACATAGAGCCTAGAACAAACGTATCAGATTGAGA
ACTTTGCACAAGCGTTTGGTTCTCAGTTTAAAGTCGGGCAGCAGGGTGCCAATGACCTTTATCACTAACTC
TAATGGAGAAGTGGACCATAGAGTAAGGACTTCAGTGTGAGATTCTCAGGGTATACAAATATGATGTCT
GATGTAAGTGAGCCATGTAGTACAAGAGTAAAGACACCCACCAGCCAGGTTACAGG

ACCGGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239697 representing NM_001281294
Red=Cloning site Green=Tags(s)

MKIGSGFLSGGGGTGSSGGSGSGGGGGGGGGSSGRRRAEMEPTFPQAPAAEPPPPAPDMTFKKEPAA
SAAAFPSQRTSWGFLQSLVSIKQEKPADPEEQSHHHHHHHHYGGLFAGAEERSPLGGGEGGSHGVIQD
LSILHQHVQQPAQHHRDVLLSSSRDDHHGTEEPKQDTNVKKAKRKPESQGIKAKRKP SASSKPSLV
GDGEGAILSPSQKPHICDHCSAAFSSYHLRRHVL IHTGERPFQCSQCSMGFIQKYLLQRHEKIHSREKP
FGCDQCSMKFIQKYHMERHKRTHSGEKPYKCDTCQQYFSRTDRLLKHRRTCGEVIVKGATSAEPGSSNHT
NMGNLAVLSQGNTSSSRKTKSKSIAIENKEQKTGKTNESQISNNINMQSYSEMPTVSSSGGIIGTGID
ELQKRVPKLIFKKGSRKNTDKNYLN FVSPLPDIVGQKSLSGKPSGSLGIVSNNSVETIGLLQSTSGKQGQ
ISSNYDDAMQFSKKRRLPTASSNSAFSINVGHMVSQQSVIQSAGVSVLDNEAPLSLIDSSALNAEIKSC
HDKSGIPDEVLQSILDQYSNKSESQKEDPFNIAEPRVDLHTSGEHSSELVQEEENLSPGTQTPSNDKASMLQ
EYSKYLQAFEKSTNASFTLGHGFQFVLSLSSPLHNHTLFPEKQIYTTSPLECGFGQSVTVLPSLPPKPP
FGMLFGSQPGLYLSALDATHQQLTPSQELDDLIDSQKNLETSSAFQSSSQKLT SQKEQKNLESSTGFQIP
SQELASQIDPQKDIEPRTTYQIENFAQAFGSQFKSGSRVPMFTITNSNGEVDHRVRTSVSDFSGYTNMMS
DVSEPCSTRVKTPTSQSYR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

ACCN:	NM_001281294
ORF Size:	2577 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:	<ol style="list-style-type: none">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_001281294.2
RefSeq Size:	4800 bp
RefSeq ORF:	2580 bp
Locus ID:	23528
UniProt ID:	Q9Y2X9
Cytogenetics:	1q32.1
Protein Families:	ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transcription Factors
MW:	93.7 kDa
Gene Summary:	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]