

Product datasheet for **SC337591**

ZNF281 (NM_001281294) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF281 (NM_001281294) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF281
Synonyms:	GZP1; ZBP-99; ZBP99; ZNP-99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001281294, the custom clone sequence may differ by one or more nucleotides

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ATGAAATCGGCAGTGGGTTCTGAGTGGCGCGGAGGTACCGGCAGTAGCGGTGGTAGCGGCTCCGGCG
GCGGTGGTAGTGGCGCGCGCGCGCGGCAGCAGCGGCAGGAGGGCAGAGATGGAACCCACCTTTCC
CCAGGCCCGGCCGCTGAGCCCCCTCCGCCAGCCCCGGACATGACTTCAAGAAGGAGCCGGCGCG
TCAGCCGCGGCTTCCCCTCGCAGAGGACCTCCTGGGGTTCTTGCACTTTGGTTAGCATCAAACAGG
AGAAACCCCGGATCCTGAGGAGCAGCAGTCCCACCACCACCATCACCACCACCTATGGGGGGTGT
CGCTGGAGCTGAAGAGAGGTCTCCAGGCCTAGGAGGCGGTGAAGGGGGAGTCACGGCGTCATCCAGGAC
CTCAGTATTCTCCACCAGCATGTCCAGCAGCAACCAGCCAGCACCACCGTGACGTATTACTCAGCAGCA
GTAGCAGGACTGATGACCACCATGGCACTGAGGAGCCAAAGCAGGACACTAATGTCAAAAAGGCAAAAAG
GCCAAAGCCAGAATCTCAGGGAATCAAAGCCAAGAGGAAGCCAAGTGCATCTTCCAAACCTTCTTTGGTT
GGAGATGGAGAAGGTGCCATCCTCTCCCAAGTCAGAAACCTCATATCTGTGATCACTGTAGTGCTGCTT
TCCGAAGTCTCTACCTGCGGAGACATGTCCTCATTACATACAGGAGAAAGACCTTTCCAGTGCAGCCA
GTGTAGTATGGGTTTCATTTCAGAAATACCTACTACAGAGACATGAGAAAATTCATAGTAGAGAGAAGCCA
TTTGGATGTGATCAGTGCAGCATGAAGTTTATTTCAGAAGTACCATATGGAGAGACACAAGAGGACACATA
GTGGAGAAAAGCCATATAAGTGTGACACTTGCCAAACAGTATTTTTCAAGGACTGATAGATTGTTGAAGCA
CAGGCGCACATGTGGTGAAGTCAATAGTTAAAGGAGCCACTAGTGCAGAACCTGGGTCAACAAACATACC
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GAACTGCAGAAGAGGGTGCCAAAATTTGATCTTTAAGAAAGGAAGCAGAAAGAATACAGATAAAAACTACC
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ACAGTGCCTTTTTCTATAAACGTAGGACACATGGTCTCCCAACAGTCTGTCATTAGTCTGCAGGTGTCAG
TGTTTTGGACAATGAGGCACCATTGTCACCTATTGACTCCTCAGCTCTAAATGCTGAAATTAATCTTGT
CATGACAAGTCTGGAATCCTGATGAGGTTTTACAAAGTATTTTGGATCAATACTCCAACAAATCAGAAA
GCCAGAAAGAGGATCCTTTCAATATTGCAGAACCAGAGTGGATTTACACACCTCAGGAGAACACTCAGA
ATTGGTTCAAGAAGAAAATTTGAGCCCAGGCACCCAAACACCTTCAAATGATAAAGCAAGTATGTTGCAA
GAATACTCCAATACCTCCAACAGGCTTTTGAAAATCCACTAATGCAAGTTTTACTCTTGGACACGGTT
TCCAATTTGTCAGTTTGTCTTACCTCTCCACAACCACACTTTGTTTCCAGAAAAACAAATATACTACTAC
GTCTCCTTTGGAGTGTGGTTTCGGCCAATCTGTTACCTCAGTGTGTCATCTTCAATGCCAAAGCCTCCT
TTTGGGATGTTGTTGGATCTCAGCCAGGTCTTATTTGTCTGCTTTGGATGCTACACATCAGCAGTTGA
CACCTTCCAGGAGCTGGATGATCTGATAGATTCTCAGAAAGACTTAGAGACTTCATCAGCCTTCCAGTC
CTCATCTCAGAAATTGACTAGCCAGAAGGAACAGAAAACTTAGAGTCTTCAACAGGCTTTCAGATTCCA
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TAATGGAGAAGTGGACCATAGAGTAAGGACTTCAGTGTGAGATTCTCAGGGTATACAAATATGATGTCT
GATGTAAGTGAGCCATGTAGTACAAGAGTAAAGACACCCACCAGCCAGAGTTACAGGTA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001281294

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:	<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:	<u>NM_001281294.1, NP_001268223.1</u>
RefSeq Size:	4800 bp
RefSeq ORF:	2580 bp
Locus ID:	23528
UniProt ID:	<u>Q9Y2X9</u>
Cytogenetics:	1q32.1
Protein Families:	ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the coding region compared to variant 1. The resulting protein (isoform 2) is missing an internal segment compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>