

Product datasheet for **RG239697**

ZNF281 (NM_001281294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF281 (NM_001281294) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF281
Synonyms:	GZP1; ZBP-99; ZBP99; ZNP-99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239697 representing NM_001281294.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAAATCGGCAGTGGGTTCTGAGTGGCGCGGAGGTACCGGCAGTAGCGGTGGTAGCGGCTCCGGC
GGCGGTGGTAGTGGCGCGCGCGCGCGGCAGCAGCGGCAGGAGGGCAGAGATGGAACCCACCTTT
CCCCAGGCCCGGCCGCTGAGCCCCCTCCGCCAGCCCCGGACATGACTTTCAAGAAGGAGCCGGCG
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CAGGAGAAACCCGCGATCCTGAGGAGCAGCAGTCCCACCACCACCATCACACCACCACCTATGGGGG
CTGTTTCGTGGAGCTGAAGAGAGGTCTCCAGGCCTAGGAGGCGGTGAAGGGGGGAGTACGGCGTCATC
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AACTTAGAGTCTTCAACAGGCTTTCAGATTCCATCTCAGGAGTTAGCTAGCCAGATAGATCCTCAGAAA
GACATAGAGCCTAGAACAACGTATCAGATTGAGAATTTGCACAAGCGTTTGGTTCTCAGTTAAGTCG
GGCAGCAGGGTGCCAATGACCTTTATCACTAATCTAATGGAGAAGTGGACCATAGAGTAAGGACTTCA
GTGTCAGATTTCTCAGGGTATACAAATATGATGTCTGATGTAAGTGAAGTGAAGTGAAGTGAAGTGAAG
ACACCCACCAGCCAGGTTACAGG
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239697
 Blue=ORF Red=Cloning site Green=Tag(s)

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MKIGSGFLSGGGGTGSSGGSGSGGGGGGGGGSSGRRRAEMEPTFPQAPAAEPPPPAPDMTFKKEPA
ASAAAFPSQRTSWGFLQSLVSIKQEKPADPEEQSHHHHHHHHYGGLFAGAEERSPLGGGEGGSHGVI
QDL SILHQHVQQPAQHHRDVL LSSSRRTDDHHGTEEPKQDTNVKKAKRPKPE SQIKAKRKPSASSKP
SLVGDGEGAILSPSQPHICDHCSAAFSSYHLRRHVL IHTGERPFQCSQC SMGFIQKYL LQRHEK IHS
REKPF GCDQCSMKFIQKYHMERHKRTHSGEKPYKCDTCQYF SRTDRLLKHRRTC GEVIVKGATSAEPG
SSNHTNMGNLAVLSQGNTSSRRKTKSKSIAIENKEQKTGKTNESQI SNNINMQSYSVEMPTVSSSGGI
IGTGIDELQKRVPKLIFKKGSRKNTDKNYLNFVSPLPDI VGQKSLSGKPSGSLGIVSNNSVETIGLLQS
TSGKQQG I SSNYDDAMQFSKKRRYLPTASSNSAFSINVGHMVSQQSVIQSAGVSVLDNEAPLSLIDSSA
LNAEIKSCHDKSGIPDEVLSILDQYSNKSESQKEDPFNIAEPRVDLHTSGEHESELVQEENLSPGTQTP
SNDKASMLQEYSKYLQAFEKSTNASFTLGHGFQFVSLSSPLHNHTLFPEKQIYTTSPLECGFGQSVTS
VLPSSLPKPPFGMLFGSQPLYLSALDATHQQLTPSQELDDLIDSQKNLETSSAFQSSSQKLT SQKEQK
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VSDFSGYTNMMSDVSEPCSTRVKTPTSQSYR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites: Sgfl-Mlul

Cloning Scheme:


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).

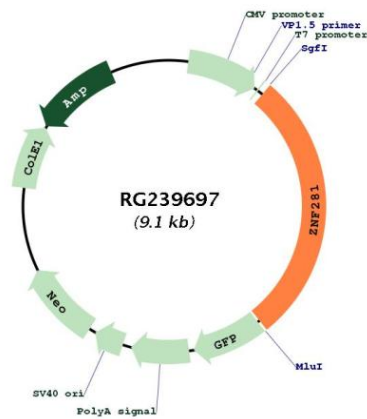
RefSeq: [NM_001281294.2](#)

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]

Product images:



Circular map for RG239697