

Product datasheet for **MR211084**

Zfp281 (NM_177643) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp281 (NM_177643) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfp281
Synonyms:	Znf281
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211084 representing NM_177643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAATCGGCAGCGGGTTCCTTAGCGCGCGCGCGGTCCAGCAGTAGCGGTGGTAGCGGCTCCGGCG
 GCAGCTCCGGCAGCGCCAGCGGGCAGCGGGCGCGCAGGAGAGCAGAGATGGAGCCACCTTCCCCCA
 GAGTATGGTTATGTTCAACCACCGGCTTCCCCGGTCACCAGCTTCAACCGCGCGCGGGAGCGGCC
 CCTCCCCGAGTGCGTGTATCCTCTACCTCCGAGCCCCGGCGGTGAGCCCCCCTCCGCCAG
 CCCCAGCATGACTTTCAAGAAGGAGCCGGCGCGTCAAGCGCGCTTCCCTTCGAGAGGACCTCTG
 GGGATTCTTGAGTCTTGGTGAGCATCAAGCAGGAGAACTGCGGATCCCAGGAGCAGCGTCCAC
 CACCACCATCACCACCACCTATGGGGGGCTGTTGCTGGGGCTGAAGAGCGATCACCAGGCTAGGAG
 GAGGGGAAGGGGAGCCAGCGGTATCAAGACCTCAGTCTTCTGCACCAGCATGCCAGCAGCAACC
 GGCCAGCACCACCGATGTATTACTGAGCAGCGGTAGCAGGACTGATGAGCACGGCAACCAGGAGCCA
 AAGCAGGACGCTAACGTCAAAAAGGCAAAGAGGCCAAAGCCAGAATCTCAGGGAATCAAAGCCAAGAGGA
 AGCCAAGTGCATCTTCAAACCTTTGGTTGGAGAGGGAGAAGGTGCCGTCTGTCCCAAGTCAGAAACC
 TCATATCTGTGATCACTGTAGTGTCTTTTCAGGAGCTCTACCACCTGCGGAGACATGTCTCATCCAC
 ACGGGCGAAAGGCCTTTCCAGTGCAGCCAGTGTAGTATGGGTTTCATCCAGAAATACCTACTGCAGAGAC
 ACGAGAAAATTCACAGCAGAGAGAAACCCTTTGGGTGCGATCAGTGCAGCATGAAGTTTATTCAGAAAGTA
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 TTTCAAGGACTGACAGATTGTTGAAGCACAGGCGCACGTGTGGTGAAGCCATAGCAAAAGGAGCCGCTA
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 GAGAAGATACCTACCAACTGCCAGCAGCAACAGTGCCTTTTCTATCAATGTAGGACACATGGTCTCCAG
 CAGTCACTCATTAGTCTGCAGGGTCACTGTTTTGGACAATGAGCGCCATTGTCACTTATTGACTCCT
 CAGCTCTAAATGCTGAAATTAAGTCTTGTACAGCAAGTCTGGAATTCCTGATGAGGTTTTACAAAGTAT
 TTTGGATCAGTACTCTGGCAATCAGAAACACAGAAGGAGGATCCTTTCAATTAACAGAACCCAGAGT
 GATTTACACACCTCAGGAGAACCTCTGAATTGGTTCAAGAAGAAAATTTGAGCCAGGCACCCAAACAC
 CTTCAAATGATAAAACAAGCATGTTGCAAGAATACTCAAATACCTCAAACAGGCTTTGAAAAATCCAC
 TAATGCAGGTTTTACTCTTGGACACGGTTTCAATTTGTGAGCTTGTCTTACCTCTCCACAACCACT
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 AACTTAGAGACATCATCAGCCTTCCAGTCTCATCTCAGAAATTGACTAGCCAGAAGGAACAACAGAAAA
 ATTTAGAGTCTCAACGAGCTTTTCAAGTCCATCTCAGGAGTTAGCTAGCCAGATTGATCCTCAGAAAGA
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 CAGATTTCTCAGGGTATACAAATATGATGTCTGATGTAAGTGAGCCATGTAGTACAAGAGTAAAGACACC
 CACCAGCCAGATTACAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211084 representing NM_177643
 Red=Cloning site Green=Tags(s)

MKIGSGFLSGGGPSSSGSGSGSSGSASGGSGGRRRAEMEPTFPQSMVMFNHRLPPVTSFTRPAGTAA
 PPPQCVLSSSTSAAPAAEPPPPAPDMTFKKEPAASAAAFPSQRTSWGFLQSLVSIKQEKPADPEEQPSH
 HHHHHHHYGLFAGAEERSPLGGGEGSHGVIQDLSLLHQHAQQQPAQHHRDVLLSSGSRTDEHGNQEP
 KQDANVKKAKRKPESQGIKAKRKPSSASSKPLVGELEGAVLSPSQKPHICDHCSAAFSSYHLRRHVLIIH
 TGERPFQCSQCSMGFIQKYLLQRHEKIHRSREKPFQCDQCSMKFIQKYHMERHKRTHSGEKPYKCDTCQQY
 FSRTDRLLKHRRTCGEAIAKGAASAEPGSSNHNSMGNLAVLSQGNSSSRRKSKSKSIAIENKEHKTGKT
 NESQMSNNINMQSYSVEMPTVSTSGSIIIGTGIDELQKRVPKLIFKKGSRKNADKSYLNFVSPLPDVVGQK
 SLSGKPGGSLGIVSNNSVETISLLQSTSGKQGPISSNYDDAMQFSKKRRYLPTASSNSAFSINVGHMVSQ
 QSVIQSAGVSVLDNEAPLSLIDSSALNAEIKSCHDKSGIPDEVLSILDQYSGKSETQKEDPFNLTEPRV
 DLHTSGESELVQEENLSPGTQTPSNDKTSMLQEYSKYLQAFQEKSTNAGFTLGHGQFVSLSSPLHNHT
 LFPEKQIYTTSPLECGFGQSVTVLPSLKPFPGLFGSQPGLYLSALDATHQQLTPSQELDDLIDSQK
 NLETSSAFQSSQKLSQKEQQKNLESSTSFQIPSQELASQIDPQKDIEPRTTYQIENFAQAFGSQFKSG
 SRVPMTFITNSNGEVDHRVRTSVSDFSGYTNMMSDVSEPCSTRVKTPTSQSYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

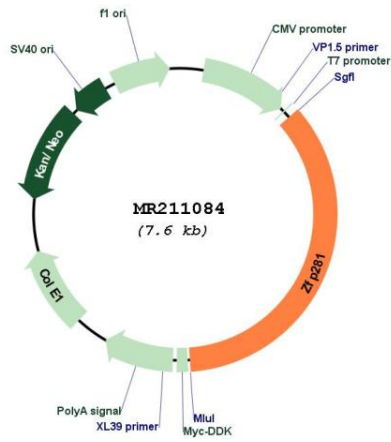
Cloning Scheme:



ACCN: NM_177643

ORF Size:	2679 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_177643.4 , NP_808311.1
RefSeq Size:	5271 bp
RefSeq ORF:	2682 bp
Locus ID:	226442
UniProt ID:	Q99LI5
Cytogenetics:	1 E4
MW:	96.7 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. 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 MR211084