

## Product datasheet for **MR228969**

### Nanog (NM\_001289831) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nanog (NM\_001289831) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nanog  
**Synonyms:** 2410002E02Rik; ecat; ecat4; EN; ENK  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228969 representing NM\_001289831  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTGCAGTTTTTCATCCCGAGAACTATTCTTGCTTACAAGGGTCTGCTACTGAGATGCTCTGCACAG  
AGGCTGCCTCTCCTCGCCCTTCTCTGAAGACCTGCCTCTCAAGGCAGCCCTGATTCTTCTACCGTCC  
CAAACAAAAGCTCTCAAGTCTGAGGCTGACAAGGGCCCTGAGGAGGAGGAGAACAAGGTCTTCCAGG  
AAGCAGAAGATGCGGACTGTGTTCTCTCAGGCCAGCTGTGTGCACTCAAGGACAGGTTTCAGAAGCAGA  
AGTACCTCAGCCTCCAGCAGATGCAAGAATCTCTCCATTCTGAACCTGAGCTATAAGCAGGTTAAGAC  
CTGGTTTTCAAACCAAAGGATGAAGTGCAAGCGGTGGCAGAAAAACCAAGTGGTTGAAGACTAGCAATGGT  
CTGATTCAGAAGGGCTCAGCACCAGTGGAGTATCCAGCATCCATTGCAGCTATCCCCAGGGCTATCTGG  
TGAACGCATCTGGAAGCCTTCCATGTGGGGCAGCCAGACTTGGACCAACCAACTTGGAGCAGCCAGAC  
CTGGACCAACCAACTTGAACAACCAAGACCTGGACCAACCAACTTGGAGCAGCCAGGCCTGGACCGCT  
CAGTCTGGAACGGCCAGCCTTGAATGCTGCTCCGCTCCATAACTTCGGGGAGGACTTTCTGCAGCCTT  
ACGTACAGTTGCAGAAAATCTCTGCCAGTGATTTGGAGGTGAATTTGGAAGCCACTAGGAAAAGCCA  
TGCGCATTAGCACCCACAAGCCTTGAATTATTCTGAACTACTCTGTGACTCCACCAAGTGAATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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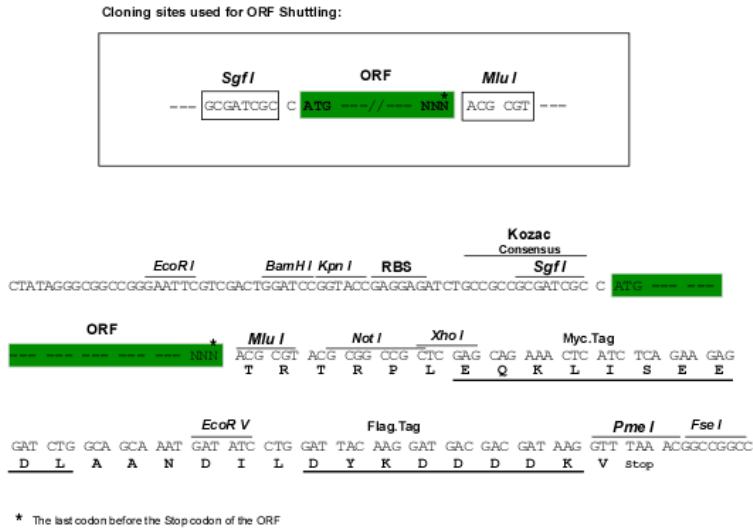
Protein Sequence: >MR228969 representing NM\_001289831  
 Red=Cloning site Green=Tags(s)

MPAVFHpenysclqgsateMLCTEaAsPRPSSedLPLQGSdSSSTSPKQKLSSPEADKGPeeeeenKVLAR  
 KQKMRTVFSQAQLCALKDRFQKQKYLslQMQELSSILNLsYKQVKTFQnQRMKCKRWQKNQWLKTSNG  
 LIQKGSAPVEYPSIHCSYPQGYLVNAsGSLsMwGSQTwNPTWSSQTwNPTWNNQTwNPTWSSQAwTA  
 QSWNGQPWNAAPLHNFGEDFLQPYVQLQqNFsASDLeVnLEATRESHAHFSTPQALELFLNYSVTPPPGEI

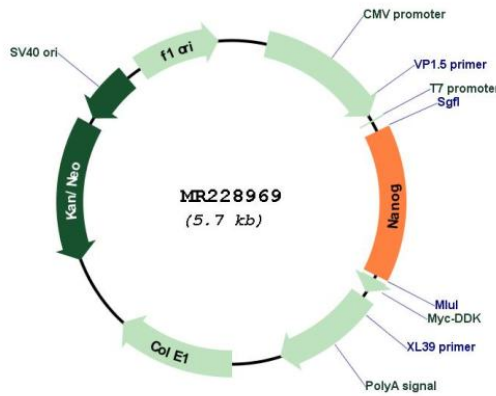
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289831  
 ORF Size: 840 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001289831.1</a> , <a href="#">NP_001276760.1</a>
<b>RefSeq Size:</b>	2004 bp
<b>RefSeq ORF:</b>	843 bp
<b>Locus ID:</b>	71950
<b>UniProt ID:</b>	<a href="#">Q80Z64</a>
<b>Cytogenetics:</b>	6 F1
<b>MW:</b>	32.3 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a DNA binding homeobox transcription factor involved in embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]