

Product datasheet for MR229126

Nanog (NM_001289828) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nanog (NM_001289828) 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:	>MR229126 representing NM_001289828 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGTGGGTCTTCCTGGTCCCCACAGTTTGCCTAGTTCTGAGGAAGCATCGAATTCTGGGAACGCCT
CATCAATGCCTGCAGTTTTTCATCCCGAGAACTATTCTTGCTTACAAGGGTCTGCTACTGAGATGCTCTG
CACAGAGGCTGCCTCTCCTCGCCCTTCTCTGAAGACCTGCCTCTCAAGGCAGCCCTGATTCTTCTACC
AGTCCCAAACAAAAGCTCTCAAGTCCTGAGGCTGACAAGGGCCCTGAGGAGGAGGAGAACAAGGTCTTGT
CCAGGAAGCAGAAGATGCGGACTGTGTTCTCTCAGGCCAGCTGTGTGCACTCAAGGACAGGTTTCAGAA
GCAGAAGTACCTCAGCCTCCAGCAGATGCAAGAACTCTCCTCCATTCTGAACCTGAGCTATAAGCAGGTT
AAGACCTGGTTTCAAACCAAAGGATGAAGTGCAAGCGGTGGCAGAAAAACCAAGTGGTTGAAGACTAGCA
ATGGTCTGATTCAGGGCTCAGCACCAGTGGAGTATCCCAGCATCCATTGCAGCTATCCCCAGGGCTATCT
GGTGAACGCATCTGGAAGCCTTCCATGTGGGGCAGCCAGACTGGACCAACCAACTTGGAGCAGCCAG
ACCTGGACCAACCAACTTGAACAACCCAGACCTGGACCAACCAACTTGGAGCAGCCAGGCCTGGACCG
CTCAGTCTGGAACGGCCAGCCTTGAATGCTGCTCCGCTCCATAACTTCGGGGAGGACTTCTGCGACCC
TTACGTACAGTTGCAGCAAAACTTCTCTGCCAGTGATTTGGAGGTGAATTTGGAAGCCACTAGGGAAAGC
CATGCGCATTTTAGCACCCACAAGCCTTGAATTATTCTGAACACTCTGTGACTCCACCAGGTGAAAT
TA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229126 representing NM_001289828
 Red=Cloning site Green=Tags(s)

MSVGLPGPHSLPSSEEASNSGNASSMPAVFHPENYSCLQGSATEMLCTEASPRPSSDLPLQGSPDSST
 SPKQKLSPEADKGPEEEENKVLARKQKMRTVFSQAQLCALKDRFQKQKYLSQLQQMQLSSILNLSYKQV
 KTWFNQQRMKCKRWQKNQWLKTSNGLIQGSAPVEYPSIHCSYPQGYLVNASGSLSMWGSQTWTNPTWSSQ
 TWTNPTWNNQTWTNPTWSSQAWTAQSWNGQPWNAAPLHNFGEFLQPYVQLQQNFASADLEVNLEATRES
 HAHFSTPQALELFLNYSVTTPPGEI

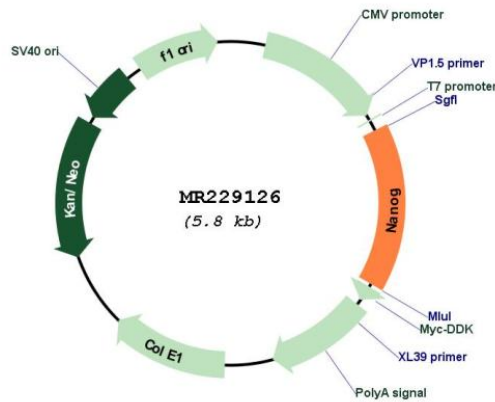
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289828

ORF Size: 912 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_001289828.1 , NP_001276757.1
RefSeq Size:	2220 bp
RefSeq ORF:	915 bp
Locus ID:	71950
UniProt ID:	Q80Z64
Cytogenetics:	6 F1
MW:	34.6 kDa
Gene Summary:	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]