

Product datasheet for MC211260

Nanog (NM_028016) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nanog (NM_028016) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nanog
Synonyms:	2410002E02Rik; ecat; ecat4; EN; ENK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC211260 representing NM_028016 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGTGGGTCTTCTGGTCCCCACAGTTTGCCTAGTTCTGAGGAAGCATCGAATTCTGGGAACGCC
CATCAATGCCTGCAGTTTTTCATCCCGAGAACTATTCTTGCTTACAAGGGTCTGCTACTGAGATGCTCTG
CACAGAGGCTGCCTCTCCTCGCCCTTCTCTGAAGACCTGCCTCTCAAGGCAGCCCTGATTCTTCTACC
AGTCCCAAACAAAAGCTCTCAAGTCTGAGGCTGACAAGGGCCCTGAGGAGGAGGAGAACAAGGTCCTTG
CCAGGAAGCAGAAGATGCGGACTGTGTTCTCTCAGGCCAGCTGTGTGCACTCAAGGACAGTTTTAGAA
GCAGAAGTACCTCAGCCTCCAGCAGATGCAAGAACTCTCCTCCATTCTGAACCTGAGCTATAAGCAGTT
AAGACCTGGTTTTCAAACCAAAGGATGAAGTGCAAGCGGTGGCAGAAAAACCAAGTGGTTGAAGACTAGCA
ATGGTCTGATTGAGAAGGGCTCAGCACCAGTGGAGTATCCAGCATCCATTGCAGCTATCCCAGGGCTA
TCTGGTGAACGCATCTGGAAGCCTTCCATGTGGGGCAGCCAGACTTGGACCAACCAACTTGGAGCAGC
CAGACCTGGACCAACCAACTTGGAAACAACCAGACCTGGACCAACCAACTTGGAGCAGCCAGGCCCTGGA
CCGCTCAGTCTTGAACGGCCAGCCTTGAATGCTGCTCCGCTCCATAACTTCGGGGAGGACTTTCTGCA
GCCTTACGTACAGTTGCAGCAAACTTCTCTGCCAGTGAATTTGGAGGTGAATTTGGAAGCCACTAGGGAA
AGCCATGCGCATTTTAGCACCCACAAGCCTTGAATTATCTGAACTACTCTGTGACTCCACCAGGTG
AAATATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_028016



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Insert Size:	918 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_028016.3 , NP_082292.1
RefSeq Size:	2223 bp
RefSeq ORF:	918 bp
Locus ID:	71950
UniProt ID:	Q80Z64
Cytogenetics:	6 F1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>