

## 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

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGTGGGTCTTCTGGTCCCCACAGTTTGCTAGTTCTGAGGAAGCATCGAATTCTGGGAACGCCT  
CATCAATGCCTGCAGTTTTTCATCCCGAGAACTATTCTTGCTTACAAGGGTCTGCTACTGAGATGCTCTG  
CACAGAGGCTGCCTCTCCTCGCCCTTCTCTGAAGACCTGCCTCTCAAGGCAGCCCTGATTCTTCTACC  
AGTCCCAACAAAAGCTCTCAAGTCTGAGGCTGACAAGGGCCCTGAGGAGGAGGAGAACAAGGTCCTTG  
CCAGGAAGCAGAAGATGCGGACTGTGTTCTCTCAGGCCAGCTGTGTGCACTCAAGGACAGGTTTCAGAA  
GCAGAAGTACCTCAGCCTCCAGCAGATGCAAGAACTCTCCTCCATTCTGAACCTGAGCTATAAGCAGGTT  
AAGACCTGGTTTTCAAAACCAAGGATGAAGTGCAAGCGGTGGCAGAAAAACCAAGTGGTTGAAGACTAGCA  
ATGGTCTGATTCAGAAGGGCTCAGCACCAGTGGAGTATCCAGCATCCATTGCAGCTATCCCCAGGGCTA  
TCTGGTGAACGCATCTGGAAGCCTTCCATGTGGGGCAGCCAGACTTGGACCAACCAACTTGGAGCAGC  
CAGACCTGGACCAACCAACTTGGAAACCAACAGACCTGGACCAACCAACTTGGAGCAGCCAGGCCTGGA  
CCGCTCAGTCTTGAACGGCCAGCCTTGAATGCTGCTCCGCTCCATAACTTCGGGGAGGACTTTCTGCA  
GCCTTACGTACAGTTGCAGCAAACTTCTGCCAGTGATTTGGAGGTGAATTTGGAAGCCACTAGGGAA  
AGCCATGCGCATTTTAGCACCCCAAGCCTTGAATTATTCTGAACCTACTCTGTGACTCCACCAGGTG  
AAATATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM\_028016



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<b>Insert Size:</b>	918 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_028016.3</a> , <a href="#">NP_082292.1</a>
<b>RefSeq Size:</b>	2223 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	71950
<b>UniProt ID:</b>	<a href="#">Q80Z64</a>
<b>Cytogenetics:</b>	6 F1
<b>Gene Summary:</b>	<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>