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Product datasheet for MC226758

Nanog (NM_001289831) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nanog (NM_001289831) 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:	>MC226758 representing NM_001289831 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCTGCAGTTTTTCATCCCGAGAACTATTCTTGCTTACAAGGGTCTGCTACTGAGATGCTCTGCACAG AGGCTGCCTCTCCTCGCCCTTCCTCTGAAGACCTGCCTCTTCAAGGCAGCCCTGATTCTTCTACCAGTCC CAAACAAAAGCTCTCAAGTCCTGAGGCTGACAAGGGCCCTGAGGAGGAGGAGAACAAGGTCCTTGCCAGG AAGCAGAAGATGCGGACTGTGTTCTCTCAGGCCCAGCTGTGTGCACTCAAGGACAGGTTTCAGAAGCAGA AGTACCTCAGCCTCCAGCAGATGCAAGAACTCTCCTCCATTCTGAACCTGAGCTATAAGCAGGTTAAGAC CTGGTTTCAAAACCAAAGGATGAAGTGCAAGCGGTGGCAGAAAAACCAGTGGTTGAAGACTAGCAATGGT CTGATTCAGAAGGGCTCAGCACCAGTGGAGTATCCCAGCATCCATTGCAGCTATCCCCAGGGCTATCTGG TGAACGCATCTGGAAGCCTTTCCATGTGGGGCAGCCAGACTTGGACCAACCCAACTTGGAGCAGCCAGAC CTGGACCAACCCAACTTGGAACAACCAGACCTGGACCAACCCAACTTGGAGCAGCCAGGCCTGGACCGCT CAGTCCTGGAACGGCCAGCCTTGGAATGCTGCTCCGCTCCATAACTTCGGGGAGGACTTTCTGCAGCCTT ACGTACAGTTGCAGCAAAACTTCTCTGCCAGTGATTTGGAGGTGAATTTGGAAGCCACTAGGGAAAGCCA TGCGCATTTTAGCACCCCACAAGCCTTGGAATTATTCCTGAACTACTCTGTGACTCCACCAGGTGAAATA TGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001289831
Insert Size:	843 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	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_001289831.1, NP_001276760.1
RefSeq Size:	2004 bp
RefSeq ORF:	843 bp
Locus ID:	71950
UniProt ID:	Q80Z64
Cytogenetics:	6 F1
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] Transcript Variant: This variant (4, also known as Nanog1a) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. Variants 3 and 4 encode the same isoform (3), which has a shorter N-terminus, compared to isoform 1.