

Product datasheet for RC221867

NANOS3 (NM 001098622) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NANOS3 (NM 001098622) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NANOS3

Synonyms: NANOS1L; NOS3; ZC2HC12C

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC221867 representing NM_001098622
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TCCCTCCATGTCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221867 representing NM_001098622

Red=Cloning site Green=Tags(s)

MGTFDLWTDYLGLAHLVRALSGKEGPETRLSPQPEPEPMLEPVSALEPMPAPESVPVPGPKDQKRSLESS PAPERLCSFCKHNGESRAIYQSHVLKDEAGRVLCPILRDYVCPQCGATRERAHTRRFCPLTGQGYTSVYS

HTTRNSAGKKLVRPDKAKTQDTGHRRGGGGGAGFRGAGKSEPSPSCSPSMST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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CN: techsupport@origene.cn

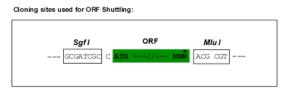
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com ORIGENE

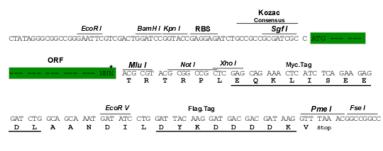
Chromatograms: https://cdn.origene.com/chromatograms/mg2930 h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001098622

ORF Size: 576 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: 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: <u>NM 001098622.2</u>, <u>NP 001092092.1</u>

RefSeq Size: 946 bp RefSeq ORF: 579 bp Locus ID: 342977



 UniProt ID:
 P60323

 Cytogenetics:
 19p13.12

 MW:
 20.5 kDa

Gene Summary: Plays a role in the maintenance of the undifferentiated state of germ cells regulating the

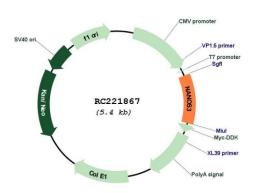
spermatogonia cell cycle and inducing a prolonged transit in G1 phase. Affects cell

proliferation probably by repressing translation of specific mRNAs. Maintains the germ cell lineage by suppressing both Bax-dependent and -independent apoptotic pathways. Essential

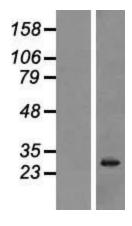
in the early stage embryo to protect the migrating primordial germ cells (PGCs) from

apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC221867



Western blot validation of overexpression lysate (Cat# [LY420646]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221867 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).