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Product datasheet for RG221867

NANOS3 (NM_001098622) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NANOS3 (NM_001098622) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NANOS3
Synonyms:	NANOS1L; NOS3; ZC2HC12C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG221867 representing NM_001098622
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCTTTGACCTGTGGACAGATTACCTGGGTTTGGCACACCTGGTTAGGGCTCTGAGTGGGAAAG
AGGGTCCTGAAACCAGGCTGAGCCCCCAGCCAGAGCCAGAGCCAATGCTGGAGCCGGTGTCAGCCCTGGA
GCCGATGCCAGCGCCGGAGTCGGTGCCAGTGCCGGGACCCAAGGATCAGAAGCGCAGCCTGGAGTCCTCG
CCAGCTCCCGAACGCCTGTGCTCTTTCTGCAAACACAACGGCGAGTCCCGGGCCATCTACCAGTCCCACG
TGCTGAAGGACGAGGCTGGCAGGGTGCTGTGTCCCATCCTGCGGGACTACGTGTGTCCCCAGTGCGGCGC
CACACGTGAGCGCGCCCACACCCGACGCTTCTGCCCACTTACTGGCCAGGGCTACACCTCCGTCTACAGC
CACACCACCCGAAACTCGGCAGGCAAGAAGCTGGTCCGGCCTGACAAGGCGAAGACACAGGACACAGGCC
ACCGCCGAGGAGGAGGAGGAGGAGCAGGTTTCAGAGGTGCCGGGAAGTCTGAGCCTTCGCCCTCCTGCTC
TCCCTCCATGTCCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221867 representing NM_001098622
Red=Cloning site Green=Tags(s)

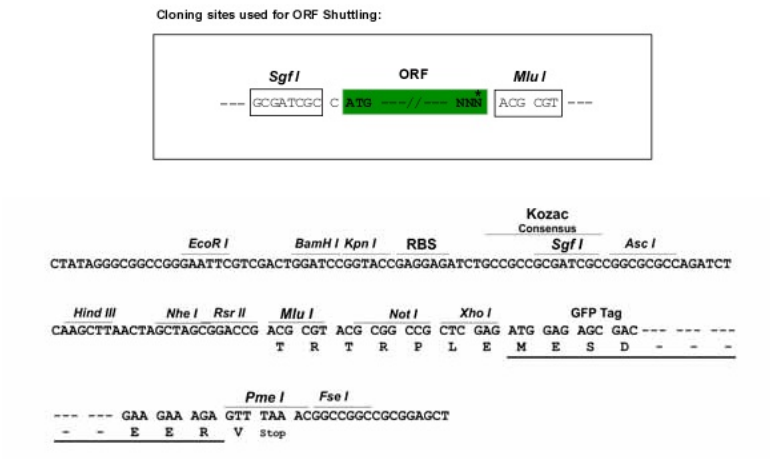
MGTFDLWTDYLGLAHLVRALSGKEGPETRLSPQPEPEPMLEPVSALEPMPAPESVPVPGPKDQKRSLESS
PAPERLCSFCKHNGESRAIYQSHVLKDEAGRVLCPILRDYVCPQCGATRERAHTRRFCPLTGQGYTSVYS
HTTRNSAGKKLVRPDKAKTQDTGHRRGGGGGAGFRGAGKSEPSPSCSPSMST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

View online »

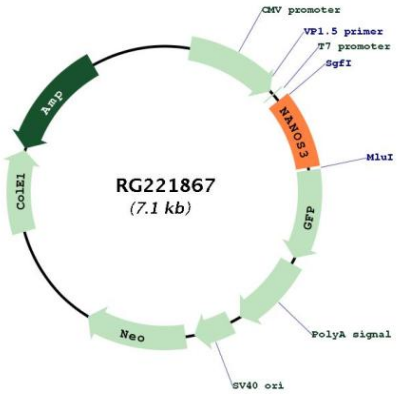
Cloning Scheme:



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:	NM_001098622.2, NP_001092092.1
RefSeq Size:	946 bp
RefSeq ORF:	579 bp
Locus ID:	342977
UniProt ID:	P60323
Cytogenetics:	19p13.12

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 RG221867