

Product datasheet for **RG219123**

NANOS1 (NM_199461) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NANOS1 (NM_199461) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NANOS1
Synonyms: EC_Rep1a; NOS-1; NOS1; SPGF12; ZC2HC12A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219123 representing NM_199461
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCTTTCCCTGGGCGCCCCGCTCGCCCCGCGCGCCGCCCCCGCCCATGGCGCTCGTGC
 CCAGCGCCCGCTACGTGAGCGCCCCGGGCCCGGCGCACCCGAGCCCTTCAGCTCCTGGAACGACTACCT
 GGGGCTCGCCACGCTCATACCAAAGCGGTGGACGGCGAGCCGCGCTTCGGTGCGCCCGCGGTGGGAAC
 GCGGGCGGGCTCCCCGCCCTCCTCCTCGTCGTCCTGCTGCTCCCCACACGGGGCCGGGCGCTG
 GGGCGCTGGGGCGGGCGCTGGGGCGCCGACTACGACGAGGACGACGACGACGACGACGACGACGAGCCGGG
 GTCCCGGGCCGCTACCTGGGGAGCGCGCTGGAATTGCGCGCGCTGGAGCTGTGCGCGGGCCCCGCGAG
 GCCGGGTGCTGGAGGAGCGCTTCGCCGAGCTGAGCCCGTTGCGGGTCTGTGCCGCCCGCTGCTGCTGG
 GCTGCGCGCCCGCCGCCCGCCGCCACCACCAGCGAGGCGACGCCGCGGAGGAGCGGGCCCC
 GGCGTGGGCGGCCGAGCCCCGGCTGCACGCGGCCCTCCGGGGCGGGCGGCCCGGCTGCTGAAGCCGAG
 CTGCAGGTGTGCGTGTCTGCCGAACAACAAGGAGGCGATGGCGCTCTACACCACCCATATCCTCAAGG
 GCCCGACGGGCGAGTGTGTCCCCTGCTGCGCCGCTACACGTGTCCCTGTGCGGCGCCAGCGGGCA
 CAACGCGCACACCATCAAGTACTGCCCGCTCTCAAAGTGCCCGCCGCCCGCCCGCCCGCCCGCCCGCC
 AGCGCCAGGGACGGCCCGCTGGCAAGAAGCTGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219123 representing NM_199461
Red=Cloning site Green=Tags(s)

MEAFPWAPRSPRRGRAPPPMALVPSARYVSAPGPAHPQPFSSWNDYLGATLITKAVDGEPRFGCARGGN
 GGGGSPSSSSSSCCSPHTGAGPGALGPALGPPDYDEDDDDSDPEGSRGRYLSALELRALELCAGPAE
 AGLLEERFAELSPFAGRAAAVLLGCAPAAAAAATTTSEATPREERAPAWAAEPRLHAASGAAAARLLKPE
 LQVCVFCRNNKEAMALYTTTHILKGPDGRVLCVLRRYTCPLCGASGDNAHTIKYCPLSKVPPPPARPPPR
 SARDGPPGKKLR

TRTRPLE - GFP Tag - V

Restriction Sites:

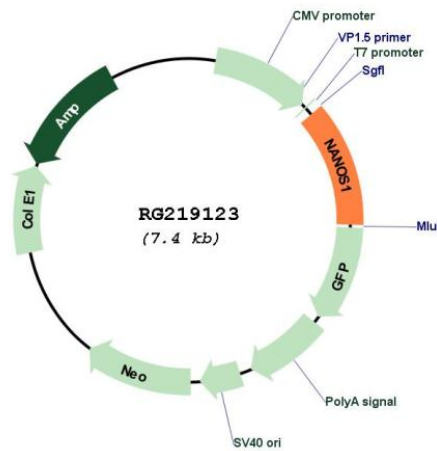
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_199461

ORF Size: 876 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:	<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_199461.4
RefSeq Size:	4627 bp
RefSeq ORF:	879 bp
Locus ID:	340719
UniProt ID:	Q8WY41
Cytogenetics:	10q26.11
Gene Summary:	This gene encodes a CCHC-type zinc finger protein that is a member of the nanos family. This protein co-localizes with the RNA-binding protein pumilio RNA-binding family member 2 and may be involved in regulating translation as a post-transcriptional repressor. Mutations in this gene are associated with spermatogenic impairment. [provided by RefSeq, Sep 2015]