

Product datasheet for **MG218351**

Nanos1 (NM_178421) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nanos1 (NM_178421) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nanos1
Synonyms: NOS-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218351 representing NM_178421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTTTCCCTTGGGCGCCACGCTCGCCCCGCCGCCCGCCCGCCCGCCCGCCTATGGCGCTCGTGC
CCAGCGCCCGCTACGTGAGCGCCTCGGGCCCGGTGCACCCGACGCCCTTCAGCTCCTGGAACGACTACCT
GGGGCTTGCCACGCTCATCACCAGGGCTAGCGACCGGGTCCCCGCATGAGGGCCCGGGCCACGGCG
GCGGGGCCACGATGGGGCCGCCGAGGACGATGAAGACGATGACGGCGAAGAGCCGAGGCCGGGGCC
GCTACCTGGGCGGTGCGTTGGAAGTGCAGCGACTAGAGCTGTGTGCCGGCCCGCTGAGCCCGGGTTGCT
GGAGGAGCGCTTCGCTGAGCTGAACCCGTTTGCAGGGCGCGCCGCGCGTTCTGCTGGGCTGCGCGCC
ACCGCCTCCACCACCGCCGCCCGCATCCACGGCCGAAGTGACGCCGCGGAAGAGCCAAGCCCTGCGT
GGGCTGCCGAGCCTCGTCTGCACGCGGCTTCCGGGGCGACCGCCGACGTCTGCTGAAACCGGAGCTTCA
GGTGTGTGTGTTTTGCCGGAACAACAAGGAGGCGGTGGCGCTCTACACCACACATCCTCAAGGGCCCG
GACGGCCGGGTGCTGTGCCCGTCTTGCAGCGCTACACGTGCCCCCTGTGCGGCGCCAGCGGGCACAACG
CACATACCATCAAGTATTGCCCGCTCTCAAAGTGCCACCGCCACCCTCCGCCCGCCCGCGCAGCAA
CAGGGACAGCCTGCCAGCAAGAAGCTGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218351 representing NM_178421
 Red=Cloning site Green=Tags(s)

MEAFPWAPRSPRRARAPAPMALVPSARYVSASGPVHPQPFSSWNDYLGLATLITRASDRGSPHEGPGPTA
 AGPTMGPPEDDEDDGEEPEAGGRYLGGALELRALELCAGPAEPGLLEERFAELNPFAGRAAAVLLGCAP
 TASTTAAAASTAEVTPREEPSAWAAEPRLLHAASGATAARLLKPELQVCVFCRNNKEAVALYTTTHILKGP
 DGRVLCVPLRRYTCPLCGASGDNAHTIKYCPLSKVPPPTVRPPRSNRDSLPSKKLR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178421

ORF Size: 801 bp

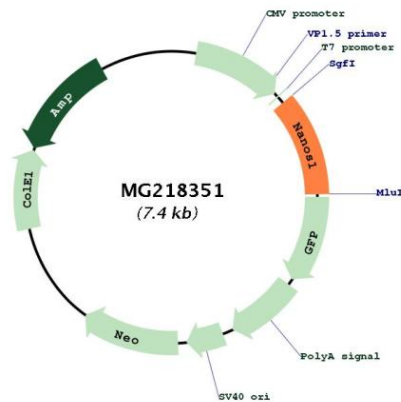
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_178421.3 , NP_848508.2
RefSeq Size:	3945 bp
RefSeq ORF:	804 bp
Locus ID:	332397
UniProt ID:	Q80WY3
Cytogenetics:	19 D3
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 a similar protein in human are associated with spermatogenic impairment. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG218351