

## Product datasheet for **MR218351**

### Nanos1 (NM\_178421) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nanos1 (NM\_178421) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nanos1  
**Synonyms:** NOS-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR218351 representing NM\_178421  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCTTTCCTTGGGCGCCACGCTCGCCCCGCCGCCCGCCCGCCCGCCGCTATGGCGCTCGTGC  
CCAGCGCCCGCTACGTGAGCGCCTCGGGCCCGGTGCACCCGAGCCCTTCAGCTCCTGGAACGACTACCT  
GGGGCTTGCCACGCTCATCACCAGGGCTAGCGACCGGGCTCCCCGCATGAGGGCCCGGGCCACGGCG  
GCGGGCCACGATGGGGCCGCCGAGGACGATGAAGACGATGACGGCGAAGAGCCGAGGCCGGGGCC  
GCTACCTGGGCGGTGCGTTGGAAGTGCAGCGACTAGAGCTGTGTGCCGGCCCGCTGAGCCCGGGTTGCT  
GGAGGAGCGCTTCGCTGAGCTGAACCCGTTTGCAGGGCGCGCCGCGCGTTCGCTGGGCTGCGCGCC  
ACCGCCTCCACCACCGCCGCCCGCATCCACGGCCGAAGTGACGCCGCGGAAGAGCCAAGCCCTGCGT  
GGGCTGCCGAGCCTCGTCTGCACGCGGCTTCCGGGGCGACCGCCGACGTCTGCTGAAACCGGAGCTTCA  
GGTGTGTGTGTTTTGCCGGAACAACAAGGAGGCGGTGGCGCTCTACACCACACATCCTCAAGGGCCCG  
GACGGCCGGTGTGCCCCGCTTGCAGCGCTACACGTGCCCCCTGTGCGGCGCCAGCGGGCGACAACG  
CACATACCATCAAGTATTGCCCGCTCTCAAAGTGCCACCGCCACCGTCCGCCCGCCCGCGCAGCAA  
CAGGGACAGCCTGCCAGCAAGAAGCTGCGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR218351 representing NM\_178421  
 Red=Cloning site Green=Tags(s)

MEAFPWAPRSPRRARAPAPMALVPSARYVSASGPVHPQPFSSWNDYLGATLITRASDRGSPHEGPGPTA  
 AGPTMGPPEDDEDDGEEPEAGGRYLGGALELRALELCAGPAEPGLLEERFAELNPFAGRAAAVLLGCAP  
 TASTTAAAASTAEVTPREEPSAWAAEPRLLHAASGATAARLLKPELQVCVFCRNNKEAVALYTTTHILKGP  
 DGRVLCVLRRYTCPLCGASGDNAHTIKYCPLSKVPPPTVRPPRSNRDSLPSKKLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2772\\_f04.zip](https://cdn.origene.com/chromatograms/ja2772_f04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_178421

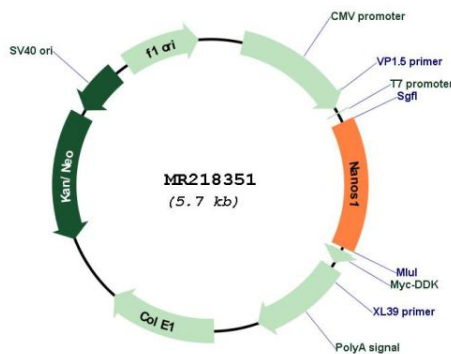
**ORF Size:** 804 bp

**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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_178421.3</a></u> , <u><a href="#">NP_848508.2</a></u>
<b>RefSeq Size:</b>	3945 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	332397
<b>UniProt ID:</b>	<u><a href="#">Q80WY3</a></u>
<b>Cytogenetics:</b>	19 D3
<b>MW:</b>	28.2 kDa
<b>Gene Summary:</b>	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 MR218351