

## Product datasheet for MC214612

### Nanos1 (NM\_178421) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nanos1 (NM_178421) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nanos1
Synonyms:	NOS-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214612 representing NM_178421 Red=Cloning site Blue=ORF

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCTTTCCCTTGGGCGCCACGCTCGCCCCGCGCGCCCGCGCCCCGCGCCTATGGCGCTCGTG  
CCAGCGCCCGCTACGTGAGCGCCTCGGGCCGGTGCACCCGAGCCCTTCAGCTCCTGGAACGACTACCT  
GGGGCTTGCCACGCTCATCACCAGGGCTAGCGACCGGGCTCCCCGCATGAGGGGCGGGGCCACGGCG  
GCGGGGCCACGATGGGGCCGCCGAGGACGATGAAGACGATGACGGCGAAGAGCCGAGGCCGGGGGCC  
GCTACCTGGGCGGTGCGTTGGAAGTGCAGCACTAGAGCTGTGTGCCGGCCCGCTGAGCCCGGGTTGCT  
GGAGGAGCGCTTCGTGAGCTGAACCCGTTTGCAGGGCGCGCCGCGCGGTTCTGCTGGGCTGCGCGCC  
ACCGCCTCCACCACCGCCGCCGCGCATCCACGGCCGAAGTACGCCGCGCAAGAGCCAAGCCCTGCGT  
GGGCTGCCGAGCCTCGTCTGCACGCGGCTTCCGGGGCGACCGCCGACGTCTGCTGAAACCGGAGCTTCA  
GGTGTGTGTGTTTGGCGGAACAACAAGGAGGCGGTGGCGCTCTACACCACACATCCTCAAGGGCCCG  
GACGGCCGGGTGCTGTGCCCGGTCTTGCGCCGTACACGTGCCCCCTGTGCGGCGCCAGCGGCGACAACG  
CACATACCATCAAGTATTGCCCGCTCTCAAAGTGCCACCGCCACCGTCCGCCCGCCGCCGCGCAGCAA  
CAGGGACAGCCTGCCAGCAAGAAGCTGCGCTAG

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja1707_c03.zip">https://cdn.origene.com/chromatograms/ja1707_c03.zip</a>
Restriction Sites:	SgfI-MluI
ACCN:	NM_178421


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<b>Insert Size:</b>	804 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_178421.3</a> , <a href="#">NP_848508.2</a>
<b>RefSeq Size:</b>	3945 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	332397
<b>UniProt ID:</b>	<a href="#">Q80WY3</a>
<b>Cytogenetics:</b>	19 D3
<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]