

Product datasheet for **MC214663**

Nanos2 (NM_194064) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nanos2 (NM_194064) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nanos2
Synonyms:	nos2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214663 representing NM_194064 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTACCGCCCTTTGACATGTGGAGAGACTACTTTAACCTGAGCCAGGTGGTGGATATAATTC
AGAGCCGGAAGCAAAGACAGGAGGGTGAGGTAGCTGAGGAGCCCAACTCCAGGCCCCAGGAGAAGAGTGA
GCAGGACCTGGAGGGCTACCCTGGATGTCTGCCTACCATATGCAACTTCTGCAAGCACAATGGGGAGTCT
CGTCACGTCTACACCTCACACCAGCTGAAGACGCCTGAAGGGTGGTTGTGTGCCATCCTGAGGCACT
ATGTGTGTCCTCTATGTGGAGCCACCGGCGACCAGGCTCATACTCAAGTATTGTCCACTCAACAGCAG
TCAGCAGTCTCTACCGACGCAGTGGCGAAACTCAGCTGGTCGCAGAGTCAAGCGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1722_c04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_194064

Insert Size: 411 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



[View online »](#)

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:	<u>NM_194064.2, NP_918953.2</u>
RefSeq Size:	1439 bp
RefSeq ORF:	411 bp
Locus ID:	378430
UniProt ID:	<u>P60322</u>
Cytogenetics:	7 A3
Gene Summary:	Plays a key role in the sexual differentiation of germ cells by promoting the male fate but suppressing the female fate. Represses the female fate pathways by suppressing meiosis, which in turn results in the promotion of the male fate. Maintains the suppression of meiosis by preventing STRA8 expression, which is required for premeiotic DNA replication, after CYP26B1 is decreased. Regulates the localization of the CCR4-NOT deadenylation complex to P-bodies and plays a role in recruiting the complex to trigger the degradation of mRNAs involved in meiosis. Required for the maintenance of the spermatogonial stem cell population. Not essential for the assembly of P-bodies but is required for the maintenance of their normal state.[UniProtKB/Swiss-Prot Function]