

Product datasheet for MR222297

Nanos2 (NM 194064) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nanos2 (NM_194064) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Nanos2
Synonyms: nos2

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR222297 representing NM_194064

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGACCTACCGCCCTTTGACATGTGGAGAGACTACTTTAACCTGAGCCAGGTGGTGATGGATATAATTC AGAGCCGGAAGCAAAGACAGGAGGGTGAGGTAGCTGAGGAGCCCAACTCCAGGCCCCAGGAGAAGAGGTGA GCAGGACCTGGAGGGCTACCCTGGATGTCTGCCTACCATATGCAACTTCTGCAAGCACAATGGGGAGTCT CGTCACGTCTACACCTCACACCAGCTGAAGACGCCTGAAGGGGTGGTTGTGTGTCCCATCCTGAGGCACT ATGTGTGTCCCTTATGTGGAGCCACCGGCGACCAGGCTCATACACTCAAGTATTGTCCACTCAACAGCAG

TCAGCAGTCTCTCTACCGACGCAGTGGGCGAAACTCAGCTGGTCGCAGAGTCAAGCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222297 representing NM_194064

Red=Cloning site Green=Tags(s)

MDLPPFDMWRDYFNLSQVVMDIIQSRKQRQEGEVAEEPNSRPQEKSEQDLEGYPGCLPTICNFCKHNGES RHVYTSHQLKTPEGVVVCPILRHYVCPLCGATGDQAHTLKYCPLNSSQQSLYRRSGRNSAGRRVKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1396-f06.zip

Restriction Sites: Sgfl-Mlul



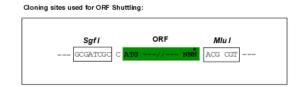
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

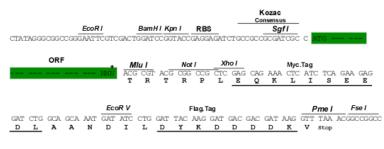
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_194064

ORF Size: 408 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: 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.

RefSeg: NM 194064.2, NP 918953.2

 RefSeq Size:
 1439 bp

 RefSeq ORF:
 411 bp

 Locus ID:
 378430

 UniProt ID:
 P60322



Cytogenetics: 7 A3

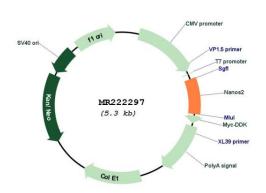
MW: 16 kDa

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]

Product images:



Circular map for MR222297