

Product datasheet for **MG222297**

Nanos2 (NM_194064) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nanos2 (NM_194064) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nanos2
Synonyms: nos2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222297 representing NM_194064
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTACCGCCCTTTGACATGTGGAGAGACTACTTTAACCTGAGCCAGGTGGTATGGATATAATTC
AGAGCCGGAAGCAAAGACAGGAGGGTGAGGTAGCTGAGGAGCCCACTCCAGGCCCCAGGAGAAGAGTGA
GCAGGACCTGGAGGGCTACCCTGGATGTCTGCCTACCATATGCAACTTCTGCAAGCACAATGGGGAGTCT
CGTCACGTCTACACCTCACACCAGCTGAAGACGCCTGAAGGGGTGGTTGTGTGCCATCCTGAGGCACT
ATGTGTGCTCTATGTGGAGCCACCGGCGACCAGGCTCATACTCAAGTATTGTCCACTCAACAGCAG
TCAGCAGTCTCTACCGACGCAGTGGGCGAAACTCAGCTGGTCGCAGAGTCAAGCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222297 representing NM_194064
Red=Cloning site Green=Tags(s)

MDLPPFDMWRDYFNLQVVMDDIIQSRKQRQEGEVAEEPNSRPQEKSEQDLEGYPGLPTICNFCKHNGES
RHVYTSHLKLTPEGVVVCPILRHVYVCPILCGATGDQAHTLKYCPLNSSQQSLYRRSGRNSAGRVRK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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_194064.2 , NP_918953.2
RefSeq Size:	1439 bp
RefSeq ORF:	411 bp
Locus ID:	378430
UniProt ID:	P60322
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]