

Product datasheet for **SC302446**

NANOS2 (NM_001029861) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | NANOS2 (NM_001029861) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NANOS2 |
| Synonyms: | NOS2; ZC2HC12B |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC302446 representing NM_001029861. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

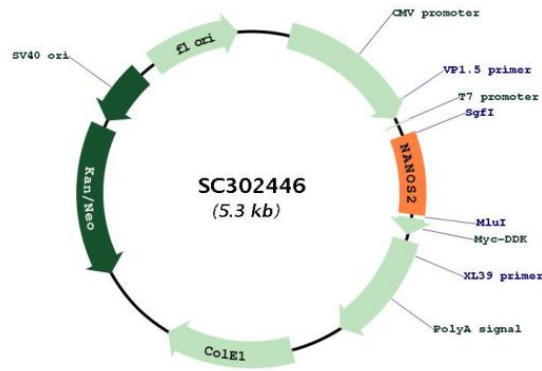
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGCAGCTGCCACCCTTCGACATGTGGAAGGACTACTTCAACCTGAGCCAGGTGGTGTGGGCGCTGATC
GCAAGTCGGGTCAAAGGCTGGAGACCCAAGAGATTGAGGAGCCAAGTCCCGGCCCTCCGCTGGGGCAG
GATCAGGGGCTGGGGGCCAGGGGCCAACGGGGCCTGGGGACCCTGTGCAACTCTGCAAGCACAAAC
GGGGAGTCCCGCCACGTCTACTCCTCACACCAGCTGAAGACCCGGATGGCGTGGTGTGTCCCATC
CTGAGGCACTACGTGTGCCGTGTGCCGGGCCACCGGTACCAGGCCATACGCTCAAGTACTGCCCG
CTTAACGGTGGCCAGCAGTCCCTCTACCGCCGACGGGGCAACTCGGCCGGACGCAGGGTCAAGCGC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



| | |
|------------------------|--|
| ACCN: | NM_001029861 |
| Insert Size: | 417 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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.

RefSeq: [NM_001029861.2](#)

RefSeq Size: 1577 bp

RefSeq ORF: 417 bp

Locus ID: 339345

UniProt ID: [P60321](#)

Cytogenetics: 19q13.32

MW: 15.1 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 (By similarity).[UniProtKB/Swiss-Prot Function]