

Product datasheet for **MG203137**

Nanos1 (BC056473) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nanos1 (BC056473) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nanos1
Synonyms: nanos1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203137 representing BC056473
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTCGTGCCAGCGCCCGCTACGTGAGCGCCTCGGGCCCGGTGCACCCGAGCCCTTCAGCTCCT
GGAACGACTACCTGGGGCTTGCCACGCTCATCACCAGGGCTAGCGACCGGGCTCCCCGCATGAGGGGCC
CGGGCCACGGCGGGGGCCACGATGGGGCCCGCCGAGGACGATGAAGACGATGACGGCAAGAGCCG
GAGGCCGGGGCCGCTACCTGGGCGGTGCGTTGGAAGTGCAGCGACTAGAGCTGTGTGCCGGCCCGCTG
AGCCCGGTTGCTGGAGGAGCGTTTCGCTGAGCTGAACCCGTTTGCAGGGCGCGCCGCGGTTCTGCT
GGGCTGCGCGCCACCGCTCCACCACCGCCGCCGCATCCACGGCCGAAGTGACGCCGCGCAAGAG
CCAAGCCCTGCGTGGGCTGCCGAGCCTCGTCTGCACGCGCTTCCGGGGCGACCGCCGACGCTCTGCTGA
AACCGGAGCTTCAGGTGTGTGTGTTTTGCCGGAACAACAAGGAGGCGGTGGCGCTCTACACCACACAT
CCTCAAGGGCCCGGACGGCCGGGTGCTGTGCCCGTCTTGCAGCGCTACACGTGCCCCCTGTGCGGCGCC
AGCGGCGACAACGCACATACCATCAAGTATTGCCCGCTCTCAAAGTGCCACCGCCACCGTCCGCCCGC
CGCCGCGCAGCAACAGGGACAGCCTGCCAGCAAGAAGCTGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203137 representing BC056473
 Red=Cloning site Green=Tags(s)

MALVPSARYVVSASGPVHPQPFSSWNDYLGLATLITRASDRGSPHEGPGPTAAGPTMGPPEDDEDDGEEP
 EAGGRYLGGALELRALCAGPAEPGLLEERFAELNPFAGRAAAVLLGCAPTASTTAAAATAEVTFREE
 PSPAWAAEPRLHAASGATAARLLKPELQVCVFCRNNKEAVALYTHILKGPDGRVLCVLRRYTCPLCGA
 SGDNAHTIKYCPLSKVPPPTVRRPPRSNRDSLPSKLLR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC056473

ORF Size: 744 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC056473](#), [AAH56473](#)

RefSeq Size: 3632 bp

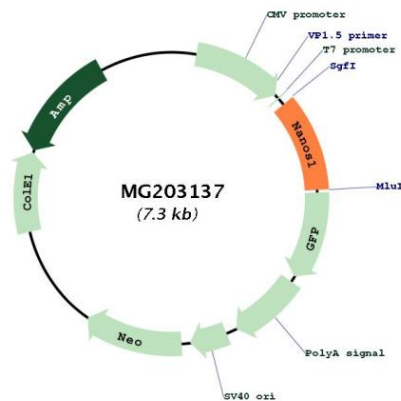
RefSeq ORF: 746 bp

Locus ID: 332397

Cytogenetics: 19 D3

Gene Summary: 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]

Product images:



Circular map for MG203137