

## Product datasheet for **MG216123**

### Nosip (NM\_001163684) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nosip (NM_001163684) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nosip
Synonyms:	2310061K06Rik; CGI-25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216123 representing NM_001163684 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGCGGCATGGCAAGAAGTGCAGTGCAGGGCCGTCTACACCTACCACGAGAAGAAGAAGGACACAG  
CGGCCTCGGGCTATGGGACCCAGAACATTCGACTGAGCCGGGACGCTGTGAAAGACTTTGACTGCTGCTG  
TCTCTCTGAGCCCTGCCATGACCCTGTGGTCAGCCAGACGGCTACCTGTATGAGAGGAAGCGATC  
CTGGAGTACATCCTGCACCAGAAGAGAGATCGCCCGCAGGTGAAGGCCTATGAGAAGCAGCGAGGAG  
CGAGGAGAGAAGAGCAGAAAGAGCTGCAGCGAGCTGCAGCCAGGACCAAGTTAGAGGCTTCTAGAGAA  
GGAGGCGGCCATCGTGAAGCCGGCCCTCAACCCCTTCATGCCCAAGGCTGCCACCTTGCCCAACACAGAG  
GGTGAACAGCCAGGGCCAGTGTGGTCCCGTAGGCAAGGACAAGGACAAAGCACTGCCAGCTTCTGGA  
TTCCCTCACTAACGCCAGGCAAGGCCACCAAGCTGGAAAAGCCGCTGGACGACTCTGTGGACCGCGT  
GGGACTCATCACAGCAGTGAGCGCTACGTTTGCAGAGTACCCGAGACAGTCTGAGCAATGCCACGCCG  
TGCGCAGTGTGCGTCCCTCTGGGGCTGTGGTACCCTGGAGTGTGTTGAGAACTGATCCGGAAGGACA  
TGGTGGACCCCGTGAATGGGACACGCTGACAGAGCGGACATCATCGTGCTGCAGCGGGCGGCACCGG  
CTTTGCGGGCTCCGGAGTGAAGCTACAGGCAGAAATGTCTCGGCCAGTGTGCAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216123 representing NM\_001163684  
 Red=Cloning site Green=Tags(s)

MTRHGKNCTAGAVVYTHEKKKDTAASGYGTQNI RLSRDAVKDFDCCCLSLQPCHDPVVTDPDGYLYEREA I  
 LEYILHQKREIARQVKAYEKQRGARREEQKELQRAAAQDQVRGFLEKEAAIVSRPLNPFMPKAATLPNTE  
 GEQPGPSVGPVGGKDKALPSFWIPSLTPEAKATKLEKPLDSDVDRVGLITRSERYVCAVTRDSL SNATP  
 CAVLRPSGAVVTLECEVKLIRKDMVDPVNGDTLTERDIIVLQRGGTGFAGSGVKLQAEMSRPVMQA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001163684

**ORF Size:** 828 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.

**RefSeq:** [NM\\_001163684.1](#), [NP\\_001157156.1](#)

**RefSeq Size:** 2059 bp

**RefSeq ORF:** 831 bp

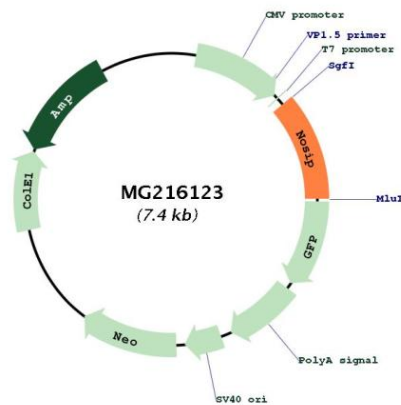
**Locus ID:** 66394

**UniProt ID:** [Q9D6T0](#)

**Cytogenetics:** 7 B3

**Gene Summary:** E3 ubiquitin-protein ligase that is essential for proper development of the forebrain, the eye and the face. Catalyzes monoubiquitination of serine/threonine-protein phosphatase 2A (PP2A) catalytic subunit PPP2CA/PPP2CB (PubMed:25546391). Negatively regulates nitric oxide production by inducing NOS1 and NOS3 translocation to actin cytoskeleton and inhibiting their enzymatic activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216123