

Product datasheet for MR216123

Nosip (NM_001163684) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nosip (NM_001163684) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nosip
Synonyms:	2310061K06Rik; CGI-25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216123 representing NM_001163684 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCGGCATGGCAAGAACTGCACTGCAGGGCCGTCTACACCTACCACGAGAAGAAGAAGGACACAG
CGGCCTCGGGCTATGGGACCCAGAACATTCGACTGAGCCGGGACGCTGTGAAAGACTTTGACTGCTGCTG
TCTCTCTGTCAGCCCTGCCATGACCCTGTGGTCAGCCAGACGGCTACCTGTATGAGAGGAAGCGATC
CTGGAGTACATCCTGCACCAGAAGAGAGATCGCCCGCAGGTGAAGGCCTATGAGAAGCAGCGAGGAG
CGAGGAGAGAAGAGCAGAAAGAGCTGCAGCGAGCTGCAGCCAGGACCAAGTTAGAGGCTTCTAGAGAA
GGAGGCGCCATCGTGAGCCGGCCCTCAACCCCTTCATGCCAAGGCTGCCACCTTGCCCAACACAGAG
GGTGAACAGCCAGGGCCAGTGTGGTCCCCTAGGCAAGGACAAGGACAAAGCACTGCCAGCTTCTGGA
TTCCCTACTAACGCCCGAGGCAAAGGCCACCAAGCTGGAAAAGCCGCTGGACGACTCTGTGGACCGCT
GGGACTCATCACAGCAGTGAGCGCTACGTTTGCAGAGTACCCGAGACAGTCTGAGCAATGCCACGCCG
TGCGCAGTGCTGCGTCCCTCTGGGGCTGTGGTACCCTGGAGTGTGTTGAGAACTGATCCGGAAGGACA
TGGTGGACCCCGTGAATGGGGACACGCTGACAGAGCGGACATCATCGTGCTGCAGCGGGCGGCACCGG
CTTTGCGGGCTCCGGAGTGAAGCTACAGGCAGAAATGTCTCGGCCAGTGTGCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216123 representing NM_001163684
 Red=Cloning site Green=Tags(s)

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNI RLSRDAVKDFDCCCLSLQPCHDPVVPDGYLYEREAI
 LEYLHQKREIARQVKAYEKQRGARREEQKELQRAAAQDQVRGFLEKEAAIVSRPLNPFMPKAATLPNTE
 GEQPGPSVGPVGKDKKALPSFWIPSLTPEAKATKLEKPLDSDVDRVGLITRSERYVCAVTRDSL SNATP
 CAVLRPSGAVVTLECEVKLIRKDMVDPVNGDTLTERDIIVLQRGGTGFAGSGVKLQAEMSRPVMQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

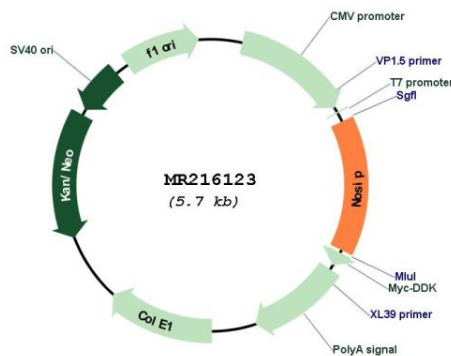
UniProt ID: [Q9D6T0](#)

Cytogenetics: 7 B3

MW: 30.9 kDa

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 MR216123