

## Product datasheet for **MC217011**

### **Nos1ap (NM\_001109985) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nos1ap (NM_001109985) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nos1ap
Synonyms:	6330408P19Rik; Capon
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217011 representing NM\_001109985  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCCAGCAAAACCAAGTACAACCTTGTGGACGATGGGCACGATCTACGGATCCCTTTGCACAACGAGG  
ACGCCTTCCAGCACGGCATCTCTTTGAGGCCAAGTACGTGGGAAGCCTGGATGTGCCAGACCCAACAG  
CAGGGTTGAGATCGTGGCTGCCATGCGCAGAATCCGGTATGAGTTTAAAGCCAAGAACATCAAGAAGAAG  
AAAGTAAGCATCATGGTCTCTGTGGACGGTGTCAAGGTATTCTGAAGAAGAAGAAAAAGAAAAGGAGT  
GGACGTGGGATGAGAGCAAGATGCTGGTATGCAGGACCTATCTACAGGATCTTCTATGTCTCTCATGA  
CTCCCAAGACTTGAAAATCTTCAGCTATATTGCCAGAGATGGTCCAGCAATATCTTCAGATGTAACGTC  
TTTAAATCCAAAAAGAAGAGTCAAGCTATGAGAATCGTGGCAGCAGTGGGACAGGCCCTTCGAAGTCTGCC  
ACAAGCTGAGCCTGCAGCACACACAGCAGAATGCAGATGGCCAGGAAGATGGGGAGAGCGAGAGGAACAG  
TGATGGCTCAGGAGACCCAGGCCGCGAGCTCACGGGAGCTGAGAGGGTCTCCACAGCCGCTGCAGAGGAG  
ACAGACATTGACGCCGTGGAGGTCCCACTCCCTGGGAATGACATTCTGGAATTCAGCCGAGGTGTGACTG  
ATCTGGATGCCGTAGGAAGGATGGAGGCTCCACATAGACTCAACGGTCTCACCCACCCTCAGGAGCC  
CATGCTGACAGCCTCCCCTCGAATGCTGCTCCCTTCTTCTTCTCGAAGCCGCCAGGCTTGGGCACGGGG  
ACGCCCCGTGCCACTCACCACCAGATGCAGCTCCTCCAGCAGCTCCTCCAGCAGCAGCAACAACAGACAC  
AAGTGGCTGTGGCCAGGTACACTTACTGAAGGATCAGTTGGTGCTGAGGCTGCGGCGCGGCTGGAGGC  
CCAGGCACGAGTGCACCAGCTCCTGTGCGAACAAGACATGCTCCAGCACATCTCTGCTGGTCAAG  
CAGGTGCAGGAGCTGGAGCTGAAGCTGTCAGGACAGAACCATTGGGCTCCAGGACAGCTTGTGGAGA  
TCACCTTCCGTTTCAGGTGCCCTGCCTGTGCTCTGTGAATCCACCACCCCTAAGCCAGAGGACCTACACTC  
ACCACTGTGGGCGCTGGCTTGGCTGACTTTGCCACCCAGCGGGCAGCCCTTTAGGTAGGCATGACTGC  
TTGGTGAAGCTGGAGTGCTTTCGCTTCCACCTGAGGATACCCAGCCGATGATGGCACAGGGTGAGC  
CGCTCCTAGTGGCTGGAGCTCATCAAGTTCCGAGAGTCGGGCATCGCCTCTGAGTATGAGTCCAACAC  
AGACGAAAGCGAGGAGCGTGACTCATGGTCACAGGAAGAGCTGCCACGCCTGCTCAATGTCTTACAGCGG  
CAGGAGTTGGGTGACAGTTTGGATGATGAGATCGCCGT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1826\\_a07.zip](https://cdn.origene.com/chromatograms/ja1826_a07.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001109985

**Insert Size:** 1512 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001109985.1</a> , <a href="#">NP_001103455.1</a>
<b>RefSeq Size:</b>	2973 bp
<b>RefSeq ORF:</b>	1512 bp
<b>Locus ID:</b>	70729
<b>UniProt ID:</b>	<a href="#">Q9D3A8</a>
<b>Cytogenetics:</b>	1 H3
<b>Gene Summary:</b>	<p>Adapter protein involved in neuronal nitric-oxide (NO) synthesis regulation via its association with nNOS/NOS1. The complex formed with NOS1 and synapsins is necessary for specific NO and synapsin functions at a presynaptic level. Mediates an indirect interaction between NOS1 and RASD1 leading to enhance the ability of NOS1 to activate RASD1. Competes with DLG4 for interaction with NOS1, possibly affecting NOS1 activity by regulating the interaction between NOS1 and DLG4 (By similarity).[UniProtKB/Swiss-Prot Function]</p>