

## Product datasheet for **RC228932**

### **CAPON (NOS1AP) (NM\_001164757) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAPON (NOS1AP) (NM_001164757) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAPON
Synonyms:	6330408P19Rik; CAPON; NPHS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC228932 representing NM\_001164757  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCTAGCAAAACCAAGTACAACCTTGTGGACGATGGGCACGACCTGCGGATCCCCTTGCACAACGAGG  
 ACGCCTTCCAGCACGGCATCTGCTTTGAGGCCAAGTACGTAGGAAGCCTGGACGTGCCAAGGCCAACAG  
 CAGGGTGGAGATCGTGGCTGCCATGCGCCGGATACGGTATGAGTTTAAAGCCAAGAACATCAAGAAGAAG  
 AAAGTGAGCATTATGGTTTCAGTGGATGGAGTAAAGTATTCTGAAGAAGAAGAAAAAGAAAGGAAT  
 GGACGTGGGATGAGAGCAAGATGCTGGTATGCAGGACCCCATCTACAGGATCTTCTATGTCTCTCATGA  
 TTCCCAAGACTTGAAGATCTTCAGCTATATCGCTCGAGATGGTCCAGCAATATCTTCAGGTGAACGTC  
 TTTAAATCCAAGAAGAAGAGCCAAGCTATGAGAATCGTTCGGACGGTGGGCAGGCCCTTTGAGGTCTGCC  
 ACAAGCTGAGCCTGCAGCACACGCAGCAGAATGCAGATGGCCAGGAAGATGGAGAGAGCGAGAGGAACAG  
 CAACAGCTCAGGAGACCCAGGCCCCAGCTCACTGGAGCCGAGAGGGCCTCCACGCCACTGCAGAGGAG  
 ACTGACATCGATCGGGTGGAGGTCCCACTTCCAGGGAATGATGTCTGGAATTCAGCCGAGGTGTGACTG  
 ATCTAGATGCTGTAGGAAGGAAGGAGGCTCTCACACAGGCTCCAAGTTTCGCACCCCCAGGAGCCCAT  
 GCTGACAGCCTCACCCAGGATGCTGCTCCCTTCTTCTTCTCGAAGCCTCCAGGCCTGGGCACAGAGACA  
 CCGCTGTCCACTCACCACCAGATGCAGCTCCTCCAGCAGCTCCTCCAGCAGCAGCAGCAGACACAAG  
 TGGCTGTGGCCAGGTACTTGGCTGAAGGACAGTTGGCTGTGAGGCTGCGGCGGGCTGGAGGCCCA  
 GGCTCGGTGCATCAGCTTTTGTGCAGAACAAAGGACATGCTCCAGCACATCTCCCTGTGGTCAAGCAG  
 GTGCAAGAGCTGGAAGTGAAGCTGTCAGGACAGAACCCATGGGCTCCAGGACAGCTTGGTGGAGATCA  
 CCTTCCGCTCCGGAGCCCTGCCCTGCTCTGTGACCCACAGCCCTAAGCCAGAGACCTGCATTTCGCC  
 GCCGCTGGGCGCGGGCTTGGCTGACTTTGCCACCCCTGCGGGCAGCCCTTAGGTAGGCGCGACTGCTTG  
 GTGAAGCTGGAGTGCTTTCGCTTCTTCCGCCAGGACACCCGCCAGCGCAGGGCGAGGCGCTCC  
 TGGGCGGTCTGGAGCTCATCAAGTTCAGAGAGTCAAGGATCGCCTCGGAGTACGAGTCCAACACGGACGA  
 GAGCGAGGAGCGGACTCGTGGTCCAGGAGGAGTCCCGCGCTGCTGAATGTCTGCAGAGGCAGGAA  
 CTGGGCGACGGCCTGGATGATGAGATCGCCGTG

**ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RC228932 representing NM\_001164757  
 Red=Cloning site Green=Tags(s)

MPSKTKYNLVDDGHDLRIPLHNEDAFQHGICFEAKYVGS LDVPRPNSRVEIVAAMRRIRYEFKAKNIKKK  
 KVSIMVSDGVKVI LKKKKKKKEWTWDESKMLVMQDPIYRIFYVSHDSQDLKIFSYIARDGASNIFRCNV  
 FKS KKSQAMRIVRTVGQAFEVCHKLSLQHTQQNADGQEDGESERNSSSGDPGRQLTGAERASTATAEE  
 TDIDAVEVPLPGNDVLEFSRGTDLDAVGKEGGSHTGSKVSHQPMLTASPRMLLPSSSKPPGLGTET  
 PLSTHHQMQLLQQLLQQQQQTQVAVAVHLLKDQLAAEAAARLEAQRVHQLLLQNKDMLQHISLLVKQ  
 VQELELKL SGQNAMGSDSLLEITFRSGALPVLCDPTTPKPEDLHSPPLGAGLADFAHPAGSPLGRRDCL  
 VKLECFRFLPPEDTPPPAQGEALLGGLELIKFRRESGIASEYESNTDESEERDSWSQEELPRLNLVLRQE  
 LGDGLDDEIAV

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

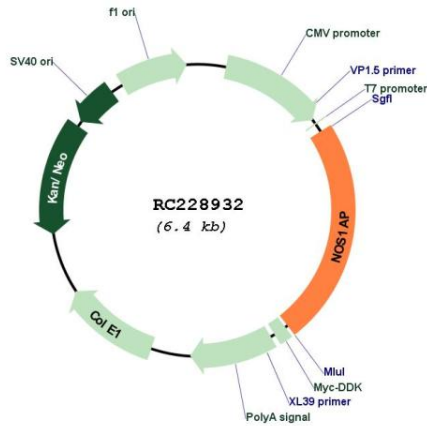
**Restriction Sites:**

Sgfl-MluI



**Gene Summary:**

This gene encodes a cytosolic protein that binds to the signaling molecule, neuronal nitric oxide synthase (nNOS). This protein has a C-terminal PDZ-binding domain that mediates interactions with nNOS and an N-terminal phosphotyrosine binding (PTB) domain that binds to the small monomeric G protein, Dexas1. Studies of the related mouse and rat proteins have shown that this protein functions as an adapter protein linking nNOS to specific targets, such as Dexas1 and the synapsins. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2009]

**Product images:**


Circular map for RC228932