

Product datasheet for **SC327567**

CAPON (NOS1AP) (NM_001164757) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CAPON (NOS1AP) (NM_001164757) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NOS1AP |
| Synonyms: | 6330408P19Rik; CAPON; NPHS22 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

| | |
|-----------------------------|--|
| Fully Sequenced ORF: | <p>>NCBI ORF sequence for NM_001164757, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCCTAGCAAAACCAAGTACAACCTTGTGGACGATGGGCACGACCTGCGGATCCCCTTG CACAACGAGGACGCCTTCCAGCACGGCATCTGCTTTGAGGCCAAGTACGTAGGAAGCCTG GACGTGCCAAGGCCAACAGCAGGGTGGAGATCGTGGCTGCCATGCGCCGGATACGGTAT GAGTTTAAAGCCAAGAACATCAAGAAGAAGAAAAGTGAAGCATTATGGTTTCAGTGGATGGA GTGAAAGTGATTCTGAAGAAGAAGAAAAAGAAAAGGAATGGACGTGGGATGAGAGCAAG ATGCTGGTGATGCAGGACCCCATCTACAGGATCTTCTATGTCTCTCATGATCCCAAGAC TTGAAGATCTTCAGTATATCGCTCGAGATGGTGCCAGCAATATCTTCAGGTGTAACGTC TTTAAATCCAAGAAGAAGAGCCAAGCTATGAGAATCGTTCGGACGGTGGGGCAGGCCCTTT GAGGTCTGCCACAAGCTGAGCCTGCAGCACACGCAGCAGAATGCAGATGGCCAGGAAGAT GGAGAGAGCGAGAGGAACAGCAACAGCTCAGGAGACCCAGGCCGCGCAGCTCACTGGAGCC GAGAGGGCCTCCACGGCCACTGCAGAGGAGACTGACATCGATGCGGTGGAGGTCCCCTT CCAGGGAATGATGTCCTGGAATTCAGCCGAGGTGTGACTGATCTAGATGCTGTAGGGAAG GAAGGAGGCTCTCACACAGGCTCCAAGGTTTCGCACCCCAAGGAGCCCATGCTGACAGCC TACCCAGGATGCTGCTCCCTTCTTCTTCTCGAAGCCTCCAGGCCTGGGCACAGAGACA CCGCTGTCCACTCACCACCAGATGCAGCTCCTCCAGCAGCTCCTCCAGCAGCAGCAGCAG CAGACACAAGTGGCTGTGGCCAGGTACTTGTGAAGGACCAGTTGGCTGCTGAGGCT GCGGCGCGGCTGGAGGCCAGGCTCGCGTGCATCAGCTTTTGTGCAGAACAAAGGACATG CTCCAGCACATCTCCCTGCTGGTCAAGCAGGTGCAAGAGCTGGAAGTGAAGCTGTGAGGA CAGAACGCCATGGGCTCCCAGGACAGCTTGCTGGAGATCACCTCCGCTCCGGAGCCCTG CCCGTGTCTGTGACCCACGACCCCTAAGCCAGAGGACCTGCATTCCGCCCGCTGGGC GCGGGCTTGGCTGACTTTGCCACCCTGCGGGCAGCCCTTAGGTAGGCGCGACTGCTTG GTGAAGCTGGAGTGCTTTCGCTTTCCTCCGCCCAGGACACCCCGCCCCAGCGCAGGGC GAGGCGCTCCTGGGCGGTCTGGAGCTCATCAAGTTCAGAGATCAGGCATCGCCTCGGAG TACGAGTCCAACACGGACGAGAGCGAGGAGCGGACTCGTGGTCCAGGAGGAGCTGCCG CGCCTGTGAATGTCCTGCAGAGGCAGGAAGTGGGCGACGGCCTGGATGATGAGATCGCC GTG </pre> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_001164757 |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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_001164757.1](#), [NP_001158229.1](#)

RefSeq Size: 4449 bp

RefSeq ORF: 1506 bp

Locus ID: 9722

UniProt ID: [O75052](#)

Cytogenetics: 1q23.3

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]

Transcript Variant: This variant (3) uses an alternate in-frame splice site in the coding region, compared to variant 1, that results in a shorter protein (isoform 3), compared to isoform 1.

Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.