

## Product datasheet for **RC211361**

### Neuropeptide S (NPS) (NM\_001030013) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuropeptide S (NPS) (NM_001030013) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuropeptide S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211361 representing NM_001030013 Red=Cloning site Blue=ORF Green=Tags(s)  TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC <b>CGATCGCC</b>  ATGATTAGCTCAGTAAACTCAATCTCATCCTAGTTCTGTGCTGCCACAATGCATGTGTTTTGGTGTTATCCAGTTCATCTTCTAAGGTGTCTGAAAACTGATTACTTTCTCATTCTGCTGAACAGCTGCCAACAGATTGGACAGGAGCAAAGAACTAGCTTTTCTAAAGCCAATTTGGAGAAGATGTTTGTGAAAAGGTCCTTTCGAATGGAGTTGGCACAGGGATGAAAAAACTTCCTTTCAAAGAGCAAATCA  <b>ACGCGT</b> ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA  >RC211361 representing NM_001030013 Red=Cloning site Green=Tags(s)  MISSVKLNLILVLSLSTMHVFWCYPVPSSKVSQSDYFLILLNSCPTRLDRSKELAFLEKMFVKRSFRNGVGTGMKTSFQRAKS  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Protein Sequence:	
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6505_b05.zip">https://cdn.origene.com/chromatograms/mk6505_b05.zip</a>
Restriction Sites:	Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001030013

**ORF Size:** 267 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.

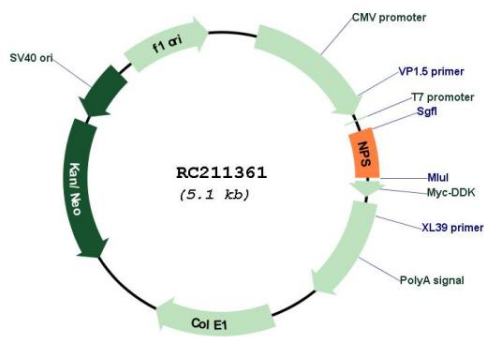
**RefSeq:** [NM\\_001030013.2](#)

**RefSeq Size:** 322 bp

**RefSeq ORF:** 270 bp

**Locus ID:** 594857  
**UniProt ID:** [POCOP6](#)  
**Cytogenetics:** 10q26.2  
**Protein Families:** Secreted Protein  
**MW:** 9.9 kDa  
**Gene Summary:** Modulates arousal and anxiety. May play an important anorexigenic role (By similarity). Binds to its receptor NPSR1 with nanomolar affinity to increase intracellular calcium concentrations (PubMed:15312648, PubMed:16790440).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC211361