

## Product datasheet for RC215733

### Urocortin 3 (UCN3) (NM\_053049) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Urocortin 3 (UCN3) (NM\_053049) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Urocortin 3  
**Synonyms:** SCP; SPC; UCNIII  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC215733 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGATGCCGGTCCACTTCTGCTGCTCCTGCTGCTCCTGGGGGGCCCCAGGACAGGCCTCCCC  
ACAAGTCTACAAAGCCAAGCCCATCTTCAGCTGCCTCAACACCGCCCTGTCTGAGGCTGAGAAGGGCCA  
GTGGGAGGATGCATCCCTGCTGAGCAAGAGGAGCTTCCACTACCTGCGCAGCAGAGACGCCTCTTCGGGA  
GAGGAGGAGGAGGCAAGAGAAAAAGACTTTCCCATCTCTGGGGCCAGGGGTGGAGCCAGAGGCCACCC  
GGTACAGATACGTGTCCAAGCACAGCCAGGGAAAGCCAGCCAGGACACGGCCAAGAGTCCCCACCG  
CACCAAGTTCACCCTGTCCCTCGAGTCCCCACCAACATCATGAACCTCCTCTTCAACATCGCCAAGGCC  
AAGAACCTGCGTGCCAGGCGGCCGCAATGCCACCTGATGGCGCAAATTGGGAGGAAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215733 protein sequence  
Red=Cloning site Green=Tags(s)

MLMPVHLLLLLLLLLGGPRTGLPHKIFYKAKPIFSCLNTALSEAEGQWEDASLLSKRSFHYLRSRDASSG  
EEEEGKEKKTFFISGARGGARGTRYRYVSQAQPRGKPRQDTAKSPHRTKFTLSLDVPTNIMNLLFNIAKA  
KNLRAQAAANAHLMAQIGRKK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

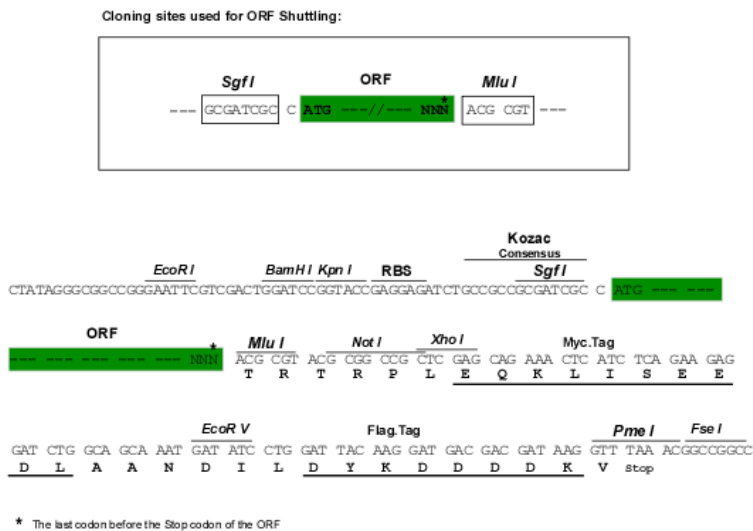
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6450\\_c04.zip](https://cdn.origene.com/chromatograms/mk6450_c04.zip)



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_053049

**ORF Size:** 483 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_053049.4](#)

**RefSeq Size:** 710 bp

**RefSeq ORF:** 486 bp

**Locus ID:** 114131

**UniProt ID:** [Q969E3](#)

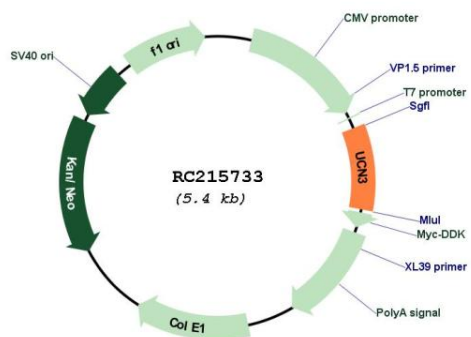
**Cytogenetics:** 10p15.1

**Protein Families:** Secreted Protein

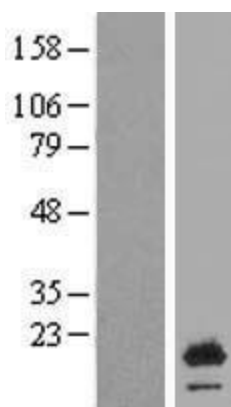
**MW:** 18 kDa

**Gene Summary:** This gene encodes a member of the sauvagine/corticotropin-releasing factor/urotensin I family of proteins. The encoded preproprotein is proteolytically processed to generate the mature peptide hormone, which is secreted by pancreatic beta and alpha cells. This hormone is an endogenous ligand for corticotropin-releasing factor receptor 2 and may regulate insulin secretion in response to plasma glucose levels. Patients with type 2 diabetes exhibit reduced levels of the encoded protein in beta cells. In the brain, the encoded protein may be responsible for the effects of stress on appetite. [provided by RefSeq, May 2016]

### Product images:



Circular map for RC215733



Western blot validation of overexpression lysate (Cat# [LY409316]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215733 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).