

Product datasheet for **SC311129**

Urocortin 3 (UCN3) (NM_053049) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Urocortin 3 (UCN3) (NM_053049) Human Untagged Clone
Tag:	Tag Free
Symbol:	Urocortin 3
Synonyms:	SCP; SPC; UCNIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311129 representing NM_053049. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTGATGCCGGTCCACTTCTGCTGCTCCTGCTGCTGCTCCTGGGGGGCCCCAGGACAGGCCTCCCC
CACAAGTTCTACAAGCCAAGCCCATCTTCAGCTGCCTCAACACCGCCCTGTCTGAGGCTGAGAAGGGC
CAGTGGGAGGATGCATCCCTGCTGAGCAAGAGGAGCTTCCACTACCTGCGCAGCAGAGACGCCTCTCG
GGAGAGGAGGAGGAGGGCAAAGAGAAAAAGACTTTCCCCATCTCTGGGGCCAGGGGTGGAGCCAGAGGC
ACCCGGTACAGATACGTGTCCCAAGCACAGCCCAGGGGAAAGCCACGCCAGGACACGGCCAAGAGTCCC
CACCGCACCAAGTTCACCCTGTCCCTCGACGTCCCACCAACATCATGAACCTCCTCTTCAACATCGCC
AAGGCCAAGAACCTGCGTGCCAGGCGGCCCAATGCCACCTGATGGCGCAAATTGGGAGGAAGAAG
TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_053049
Insert Size:	486 bp



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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 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 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_053049.2](#)

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]