

Product datasheet for **RC221513**

Urotensin II (UTS2) (NM_021995) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Urotensin II (UTS2) (NM_021995) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Urotensin II
Synonyms: PRO1068; U-II; UCN2; UII
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC221513 representing NM_021995
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

**ATGGAACCAACGTATTTTCATCTTATGCTCTGCGTCACTTCTGCTCGGACTCATAAATCCACGTCTCTTT
GCTTTGGCCACTTCAACTCATATCCAAGCCTTCTTTAATTCATGATTTATTGCTGGAAATATCCTTTCA
ACTCTCAGCACCTCATGAAGACGCGCTTAACCCGGAGGAGCTAGAAAGAGCTTCCCTTCTACAGATA
CTGCCAGAGATGCTGGGTGCAGAAAGAGGGGATATTCTCAGGAAAGCAGACTCAAGTACCAACATTTTTA
ACCAAGAGGAAATTTGAGAAAGTTTCAGGATTTCTCTGGACAAGATCCTAACATTTTACTGAGTCATCT
TTTGGCCAGAATCTGAAACCATACAAGAACGTGAGACTCCTGATTGCTTCTGAAATACTGTGTC**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC221513 representing NM_021995
Red=Cloning site Green=Tags(s)

METNVFHLMLCVTSARTHKSTSLCFGHFNSYPSLPLIHDLLLEISFQLSAPHEDARLTPEELERASLLQI
LPEMLGAERGDILRKADSSSTNIFNPRGNLRKFQDFSGQDPNILLSHLLARIWKPKKRETPDCFWKYCV

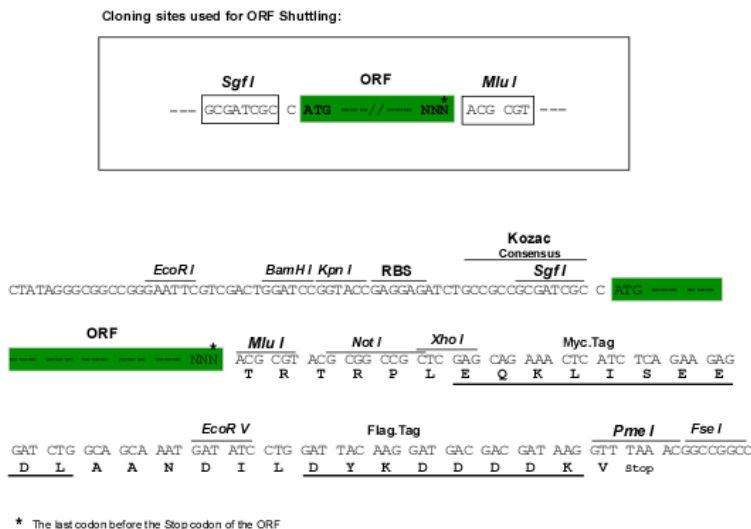
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8042_g05.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021995

ORF Size: 417 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 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_021995.2](#)

RefSeq Size: 652 bp

RefSeq ORF: 420 bp

Locus ID: 10911

UniProt ID: [O95399](#)

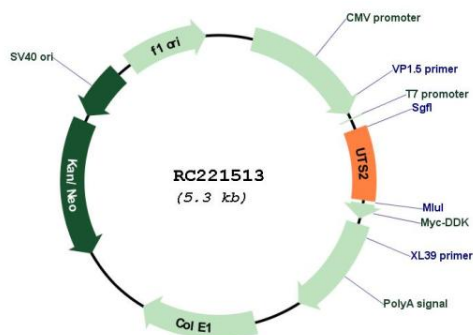
Cytogenetics: 1p36.23

Protein Families: Secreted Protein

MW: 14 kDa

Gene Summary: This gene encodes a mature peptide that is an active cyclic heptapeptide absolutely conserved from lamprey to human. The active peptide acts as a vasoconstrictor and is expressed only in brain tissue. Despite the gene family name similarity, this gene is not homologous to urocortin, a member of the sauvagine/corticotropin-releasing factor/urotensin I family. Most of the proprotein is cleaved to make the mature peptide. Transcript variants encoding different preproprotein isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC221513