

Product datasheet for MR221871

Ucn (NM_021290) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ucn (NM_021290) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ucn
Synonyms: Mpv17; Ucn1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221871 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATACAGAGGGGACGCGCTACGCTCCTGGTGGCGTTGCTGCTCTTGGCACAGCTTCGCCCGGAGAGCA
 GCCAGTGGAGCCAGCGGCTGCGCGGCAACTGGGTCCAGGATCCGAATCTGCGATGGAGCCCTGGAGT
 GCGGAATCAGGGCGGCGGCTCCGCGCTCCTTTGCTGTTAGCGGAGCGCTTCCCGCGCCGCGCAGGA
 TCTGAGCCTGCGGGGAGCGGCAGCGACGGACACCCTCCACTGTCCATCGACCTCACCTCCACCTGC
 TCGCGACCCTGTGGAGCTAGCTCGGACACAGAGCCAGCGGAGCGCGCAGAGCAGAACCGCATCATATT
 CGATTCGGTGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221871 protein sequence
 Red=Cloning site Green=Tags(s)

MIQRGRATLLVALLLLAQLRPESQWSPAAAAATGVQDPNLRWSPGVRNQGGVRRLLLLLAERFPRRAG
 SEPAGERQRRDDPPLSIDLTFHLLRTLLELARTQSRERAEQNRIIFDSVVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_021290

ORF Size: 369 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_021290.2](#), [NP_067265.1](#)

RefSeq Size: 644 bp

RefSeq ORF: 369 bp

Locus ID: 22226

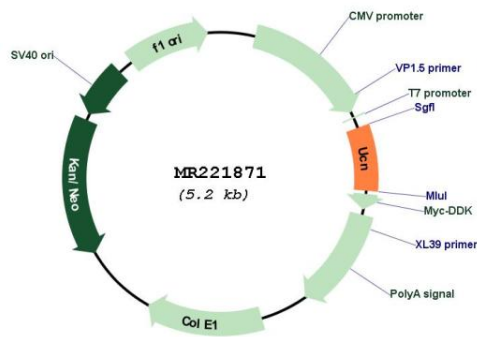
UniProt ID: [P81615](#)

Cytogenetics: 5 17.11 cM

MW: 13.6 kDa

Gene Summary: This gene encodes a member of the corticotropin-releasing hormone peptide family that participates in coordinating autonomic, endocrine, and behavioral responses to stress. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional hormone. Mice lacking the encoded protein exhibit a heightened anxiety-like behaviors and a significantly reduced acoustic startle response. [provided by RefSeq, Sep 2016]

Product images:



Circular map for MR221871