

## Product datasheet for RN205275

### Ucp1 (NM\_012682) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ucp1 (NM\_012682) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ucp1  
**Synonyms:** Ucp; Ucpa; Uncp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN205275 representing NM\_012682  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGAGTTCGACAACCTCCGAAGTGCAACCCACCATGGGGTCAAGATCTTCTCAGCCGGCCTTTCTG  
 CCTGCCTAGCAGACATCACCTTCCCCTGGACACCGCAAAGTCCGCCTTCAGATCCAAGGTGAAGG  
 CCAGGCTTCCAGTACTATTAGGTATAAAGGTGTCTTAGGGACCATCACCCCTGGCCAAGACAGAAGGA  
 TTGCCGAAACTGTACAGCGGTCTGCCTGCTGGCATCCAGAGGCAAATCAGCTTTGCTTCCCTCAGGATTG  
 GCCTCTACGATACGGTCCAAGAGTACTTCTCTTCAGGGAGAGAAAACGCCTGCCTCTTTGGGAAGCAAGAT  
 CTCGGCTGGCTTGATGACGGGTGGCGTGGCGGTATTTCATTGGGCAGCCCACAGAGGTGGTGAAGGTCAGA  
 ATGCAAGCACAAAGCCATCTGCACGGGATCAAACCCCGCTACACTGGGACCTACAATGCTTACAGAGTTA  
 TAGCCACCACAGAAAGCTTGTCAACACTGTGAAAGGGACGACTCCTAATCTAATGAGAAATGTCATCAT  
 CAACTGTACAGAGCTGGTGACATATGACCTCATGAAGGGGGCCCTTGTGAACCACCACATACTGGCAGAT  
 GACGTCCCCTGCCATTTACTGTCAGCTCTGTGCGCGGGTTTTGCACCACACTCCTGGCCTCTCCGGTGG  
 ATGTGGTAAAAACGAGATTCATCAACTCTACCAGGACAGTACCCAAGTGTACCCAGCTGTGCAATGAC  
 CATGTACACCAAGGAAGGACCGGACGCTTTTTCAAAGGTTTTGCGCCTCTTTTCTGCGACTCGGATCC  
 TGGAAACGTCATCATGTTTGTGTGCTTTGAACAGCTGAAGAAAGAGCTGATGAAGTCCCGGCAGACAGTGG  
 ACTGCACCACATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_012682  
**Insert Size:** 924 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](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](#)

**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\\_012682.2](#), [NP\\_036814.1](#)

**RefSeq Size:** 1222 bp

**RefSeq ORF:** 924 bp

**Locus ID:** 24860

**UniProt ID:** [P04633](#)

**Cytogenetics:** 19q11

**Gene Summary:** plays a role in heat production by uncoupling oxidative phosphorylation from the respiratory chain [RGD, Feb 2006]