

## Product datasheet for RR205275

### Ucp1 (NM\_012682) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ucp1 (NM_012682) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ucp1
Synonyms:	Ucp; Ucpa; Uncp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205275 representing NM_012682 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAGTTCGACAACCTCCGAAGTGCAACCCACCATGGGGTCAAGATCTTCTCAGCCGGCTTTCTG  
CCTGCCTAGCAGACATCATCACCTTCCCGCTGGACACCGCAAAGTCCGCCTTCAGATCCAAGGTGAAGG  
CCAGGCTTCCAGTACTATTAGGTATAAAGGTGTCTTAGGGACCATCACCCCTGGCCAAGACAGAAGGA  
TTGCCGAAACTGTACAGCGGTCTGCCTGTGCCATCCAGAGGCAAATCAGCTTTGCTTCCCTCAGGATTG  
GCCTCTACGATACGGTCCAAGAGTACTTCTCTTCAGGGAGAGAAACGCCTGCCTTTGGGAAGCAAGAT  
CTCGGCTGGCTTGATGACGGGTGGCGTGGCGGTATTCATTGGGCAGCCCACAGAGGTGGTGAAGGTCAGA  
ATGCAAGCACAAAGCCATCTGCACGGGATCAAACCCCGCTACACTGGGACCTACAATGCTTACAGAGTTA  
TAGCCACCACAGAAAGCTTGTAACACTGTGAAAGGGACGACTCCTAATCTAATGAGAAATGTCATCAT  
CAACTGTACAGAGCTGGTGACATATGACCTCATGAAGGGGCCCTTGTAACCACCACATACTGGCAGAT  
GACGTCCCCTGCCATTTACTGTCAGTCTTGTGCGCGGTTTTGCACCACACTCCTGGCCTCTCCGGTGG  
ATGTGGTAAAAACGAGATTCATCAACTCTACCAGGACAGTACCAAGTGTACCCAGCTGTGCAATGAC  
CATGTACACCAAGGAAGGACCGGCAGCCTTTTTCAAAGGGTTTGGCCTTCTTTTCTGCGACTCGGATCC  
TGGAACGTCATCATGTTTGTGTGCTTTGAACAGCTGAAGAAAGAGCTGATGAAGTCCCGGCAGACAGTGG  
ACTGCACCACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR205275 representing NM\_012682  
Red=Cloning site Green=Tags(s)

MVSSTTSEVQPTMGVKIFSAGVSACLADIITFPLDTAKVRLQIQGEGQASSTIRYKGVLTITTLAKTEG  
 LPKLYSGLPAGIQRQISFASLRIGLYDTVQEYFSSGRETPASLGSKISAGLMTGGVAVFIGQPTVVKVR  
 MQAQSHLHGKIPRYTGTYNAYRVIATTESLSTLWKGTTPNLMRNVIIINCTELVTYDLMKGALVNHHILAD  
 DVPCHLLSALVAGFCTLLASPVDVVKTRFINSLPGQYPSVPCAMTMYTKEGPAAFFKGFAPSFLRLGS  
 WNVIMFVCFEQLKELMKSRQTVDCCT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1859\\_e08.zip](https://cdn.origene.com/chromatograms/ja1859_e08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012682

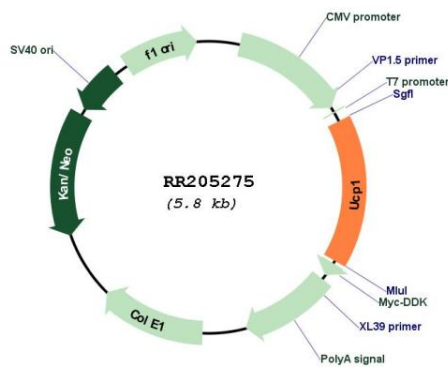
**ORF Size:** 921 bp

**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_012682.2</a></u> , <u><a href="#">NP_036814.1</a></u>
<b>RefSeq Size:</b>	1194 bp
<b>RefSeq ORF:</b>	924 bp
<b>Locus ID:</b>	24860
<b>UniProt ID:</b>	<u><a href="#">P04633</a></u>
<b>Cytogenetics:</b>	19q11
<b>MW:</b>	33.7 kDa
<b>Gene Summary:</b>	plays a role in heat production by uncoupling oxidative phosphorylation from the respiratory chain [RGD, Feb 2006]

**Product images:**



Circular map for RR205275