

Product datasheet for **RR204365**

Ucp2 (NM_019354) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ucp2 (NM_019354) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ucp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR204365 representing NM_019354 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGTTGGTTTCAAGGCCACCGATGTGCCCCACAGCCACCGTGAAGTTCCTGGGGCTGGGACAGCAGCCTGTATTGCAGATCTCATCACTTTCCCTCTAGACACCGCCAAAGTCCGGCTGCAGATCCAAGGAGAGAGTCAAGGGCTAGCGCGCACCGCCGACGCGCCAGTACCGCGCGTGTGGCACCATCCTAACCATGGTGCAGCTGAGGGTCCGCGCAGCCTCTACAATGGCTGGTCGCCGGCCTACAGCGCCAGATGAGCTTTGCCTCCGTCCGATTGGCCTCTACGACTCTGTAAGCAGTTCTACACCAAGGGCTCAGAGCATGCAGGCATCCGGAGCCGCTCCTGGCAGGTAGCACACAGGTGCCCTGGCTGTGGCTGTGGCCAACTACAGATGTGGTA AAGGTCGGCTTCCAGGCCAGGCCCGGGCTGGCGGTGGTCGGAGATACCAGAGCACTGTGGAAGCCTACAAGACCATTGCACGAGAGGAAGGGATCCGGGGCCTCTGGAAGGGACCTCTCCCAATGTTGCCGAAATGCATTGTCAACTGTACTGAGCTGGTGACCTATGACCTCATCAAAGATACTCTCCTGAAAGCCAACCTCATGACAGACGACCTCCCTTGCCACTTCACTTCTGCCTTCGGGGCGGGCTTCTGCACCACCGTCATTGCCTCCC CGTTGATGTGGTCAAGACGAGATATGAACTCTGCCTTGGGCCAGTACCACAGCGCCGCCACTGTGCCTGACCATGCTCCGGAAGGAGGGGCCCGAGCCTTCTACAAGGGTTTCATGCCTTCTCTCCGCTTGGATCCTGGAACGTAGTAATGTTTGTACCTATGAGCAGCTCAAAGGGCCCTGATGGCTGCCTATGAATCCCGGGAGGCACCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204365 representing NM_019354
 Red=Cloning site Green=Tags(s)

MVGFKATDVPPTATVKFLGAGTAACIADLITFPLDTAKVRLQIQGESQGLARTAASAQYRGVLGTILTMV
 RTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEHAGIGSRLLAGSTTGALAVAVAQPTDVV
 KVRFQAQARAGGRRYQSTVEAYKTIAREEGIRGLWKGTSPNVARNAIVNCTELVTYDLIKDTLLKANLM
 TDDLPCHF TSAFGAGFCTTVIASPVDVVKTRYMNSALGQYHSAGHCAL TMLRKEGPRAF YKGFMP SFLRL
 GSWNVVMFVTYEQLKRALMAAYESREAPF

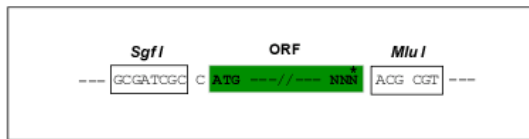
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1859_b09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019354

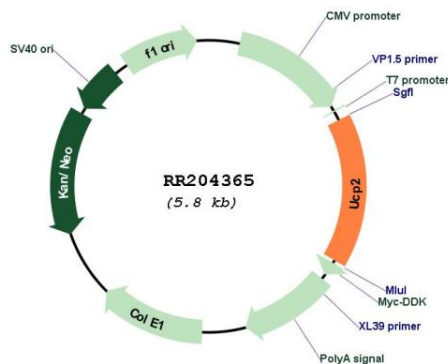
ORF Size: 927 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_019354.3</u>
RefSeq Size:	930 bp
RefSeq ORF:	930 bp
Locus ID:	54315
UniProt ID:	<u>P56500</u>
Cytogenetics:	1q32
MW:	33.8 kDa
Gene Summary:	catalyzes a proton leak across the inner mitochondrial membrane to uncouple oxidative phosphorylation; may reduce the concentration of reactive oxygen species in mitochondria [RGD, Feb 2006]

Product images:



Circular map for RR204365