

# Recombinant Human Uncoupling Protein 3 (mitochondrial, proton carrier)

**Cat. No.** UCP3-5147H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant human UCP3 is a <3 kDa protein and has preferential expression in muscle and it is unaffected by cold acclimation.                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Uncoupling proteins (UCP1-5) are a family of mitochondria transport proteins that play a critical role in thermoregulatory heat production and maintenance of basal metabolic rate. UCP3 is predicted to contain 6 transmembrane domains. The UCP3S lacks the 6th transmembrane domain and it is only 275 aa long. |
| <b>Form</b>             | Lyophilized from PBS, pH 7.5, with 0.05% NaN <sub>3</sub> . Reconstitute in 100 ul of water.                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | < 3 kDa                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>     | ELISA                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>          | Store at 4 deg C for short term storage. Aliquot and store at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                  |
| <b>Official Symbol</b>  | UCP3                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | UCP3 uncoupling protein 3 (mitochondrial, proton carrier)[ Homo sapiens ]                                                                                                                                                    |
| <b>Synonyms</b>            | UCP3; uncoupling protein 3(mitochondrial, proton carrier); SLC25A9; mitochondrial uncoupling protein 3; UCP 3; OTTHUMP00000237951; OTTHUMP00000237952; Uncoupling protein-3; solute carrierfamily 25 member 9                |
| <b>Gene ID</b>             | 7352                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_003356                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_003347                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 602044                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | P55916                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 11q13.4                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Diurnally regulated genes with circadian orthologs; Electron Transport Chain; Energy Metabolism; Mitochondrial Uncoupling Proteins; Respiratory electron transport; The fatty acid cycling model; The proton buffering model |
| <b>Function</b>            | binding; oxidative phosphorylation uncoupler activity; transporter activity                                                                                                                                                  |