

## Product datasheet for **RC237444**

### SLC25A14 (NM\_001282196) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SLC25A14 (NM\_001282196) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SLC25A14  
**Synonyms:** BMCP1; UCP5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237444 representing NM\_001282196  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGTATCTTTCCCGAATAATCCTAATTTTTCTAAGGGTGAAGTTTGAACGGCGGCCGTGATTCACC  
AGAAAAGTACCACTGTAAGTCATGAGATGTCTGGTCTGAATTGGAACCCCTTTGTATATGGCGCCCTTGC  
CTCTATCGTGGCTGAGTTTGGGACTTTCCCTGTGGACCTACCAAAACACGACTTCAGGTTCAAGGCCAA  
AGCATTGATGCCCGTTTCAAAGAGATAAAATATAGAGGGATGTTCCATGCGCTGTTTCGCATCTGTAAAG  
AGGAAGGTGATTGGCTCTATTTCAGGAATTGCTCCTGCGTTGCTAAGACAAGCATCATATGGCACCAT  
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TTCGAATGCAGGCTCAAGGAAGCTTGTTCGAAGGGAGCATGATTGGAAGCTTTATCGATATATACCAACA  
AGAAGGCACCAGGGGTCTGTGGAGGGGTGTGGTCCAACCTGCTCAGCGTGCTGCCATCGTTGTAGGAGTA  
GAGCTACCAGTCTATGATATTAAGAAAGCATTAATATTGTCAGGAATGATGGCGGATACAATTTTAA  
CTCACTTCGTTTCCAGCTTTACATGTGGTTTGGCTGGGCTCTGGCCCTCAACCCGGTTGATGTGGTTCCG  
AACTCGCATGATGAACCAGAGGGCAATCGTGGGACATGTGGATCTCTATAAGGGCACTGTTGATGGTATT  
TTAAAGATGTGGAACATGAGGGCTTTTTTGCCTCTATAAAGGATTTTGGCCAAACTGGCTTCGGCTTG  
GACCTGGAACATCATTTTTTTTATTACATACGAGCAGCTAAAGAGGCTTCAAATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237444 representing NM\_001282196  
 Red=Cloning site Green=Tags(s)

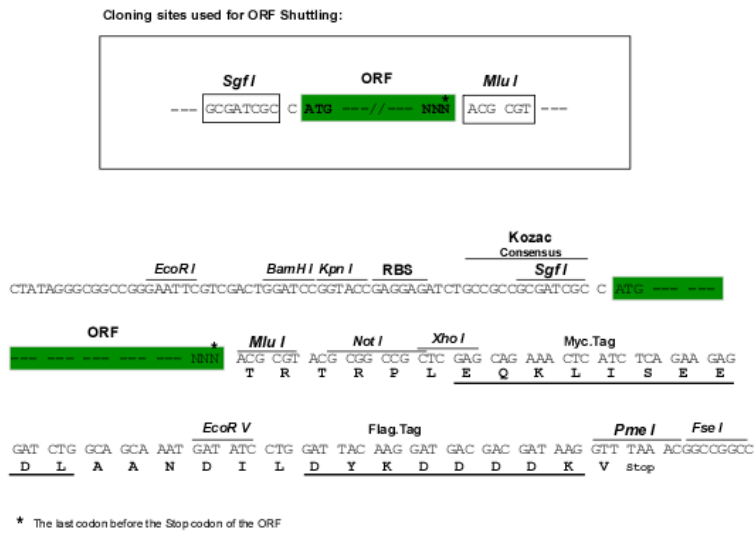
MGIFPGIILIFLRVKFATAAVIHQKSTTVSHEMSGLNWKPFVYGGASIVAEFGTFPVDLTKTRLQVQGG  
 SIDARFKEIKYRGMFHALFRICKEEGLALYSYGIAPALLRQASYGTIKIGIYQSLKRLFVERLEDETLI  
 NMICGVVSGVISSTIANPTDVLKIRMQAQGSFQGSMSGFIDIYQQEGTRGLWRGVVPTAQRAAIVVGV  
 ELPVYDITKKHLILSGMMGDTILTHFVSSFTCGLAGALASNPVDVVRTRMMNQRAIVGHVDLYKGTVDGI  
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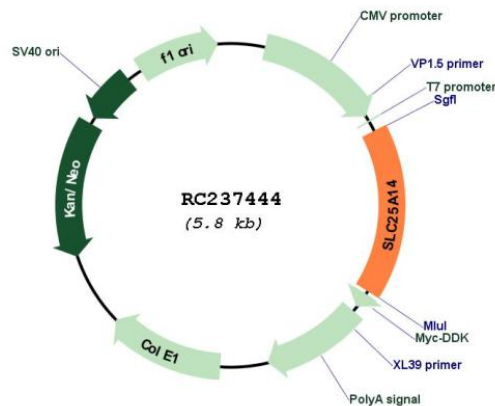
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282196

ORF Size: 966 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_001282196.2</a>
<b>RefSeq Size:</b>	1647 bp
<b>RefSeq ORF:</b>	969 bp
<b>Locus ID:</b>	9016
<b>UniProt ID:</b>	<a href="#">O95258</a>
<b>Cytogenetics:</b>	Xq26.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	36.4 kDa
<b>Gene Summary:</b>	Mitochondrial uncoupling proteins (UCP) are members of the larger family of mitochondrial anion carrier proteins (MACP). Uncoupling proteins separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. Uncoupling proteins facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. This gene is widely expressed in many tissues with the greatest abundance in brain and testis. Alternative splicing results in multiple transcript variants. A pseudogene of this gene has been defined on chromosome 4. [provided by RefSeq, Aug 2013]