

Product datasheet for **SC117655**

SLC25A14 (NM_003951) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A14 (NM_003951) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A14
Synonyms:	BMCP1; UCP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003951, the custom clone sequence may differ by one or more nucleotides

ATGGGTATCTTTCCCGAATAATCCTAATTTTTCTAAGGGTGAAGTTTGAACGGCGGCCGTGATTGTAA
GCGGACACCAGAAAAGTACCACTGTAAGTCATGAGATGTCTGGTCTGAATTGGAACCCTTTGTATATGG
CGGCCTTGCCCTATCGTGGCTGAGTTTGGGACTTCCCTGTGGACCTTACCAAAACACGACTTCAGGTT
CAAGGCCAAAGCATTGATGCCCCTTCAAAGAGATAAAATATAGAGGGATGTTCCATGCGCTGTTTCGCA
TCTGTAAGAGGAAGGTGATTGGCTCTCTATTCAGGAATTGCTCCTGCGTTGCTAAGACAAGCATCATA
TGGCACCATTAAATTTGGGATTTACCAAGCTTGAAGCGCTTATTCGTAGAACGTTTGAAGATGAACT
CTTTTAATTAATATGATCTGTGGGTAGTGTGAGGAGTATCTTCCACTATAGCCAATCCCACCGATG
TTCTAAAGATTGCAATGCAGGCTCAAGGAAGCTTGTTCGAAGGAGCATGATTGGAAGCTTTATCGATAT
ATACCAACAAGAAGGCACCGGGGTCTGTGGAGGGGTGTGGTTCCAAGTCTCAGCGTGTGCCATCGTT
GTAGGAGTAGAGCTACCACTCTATGATATTACTAAGAAGCATTTAATATTGTGAGGAATGATGGGCGATA
CAATTTTAACTCACTTCGTTTCCAGCTTACATGTGGTTTGGCTGGGGCTCTGGCCTCCAACCCGGTTGA
TGTGGTTCGAACGTCATGATGAACAGAGGGCAATCGTGGGACATGTGGATCTCTATAAGGGCACTGTT
GATGGTATTTAAAGATGTGGAAACATGAGGGCTTTTTTGCACTCTATAAAGGATTTTGGCCAACTGGC
TTCGGCTTGACCCTGGAACATCATTTTTTTTATTACATACGAGCAGCTAAAGAGGCTTCAATCTAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003951 unedited
 GTGGTTAGCAACCTTTCTATAGCGGCCCAATCGCCGAGCGACGCTGATCCTTCCTG
 TCTTTCACTCTTCTGGCATCGGCGGCTTTACTTCTTCGATTGAACCTGCTTCCTCGACC
 CCCCTGGGAGGCCGCTTCTTCAGGCGCTCCCTTCTCTCCACGAGCTCGCTCTGACAGC
 TGAGGAACTGGCAAGATCCTGCTACCCAGAGGGTGAATGGGTATCTTTCCCGAATAATC
 CTAATTTTCTAAGGGTGAAGTTTGCAACGCGGCCGTGATTGTAAGCGGACACCAGAAA
 AGTACCACTGTAAGTCATGAGATGCCTGGTCTGAATTGGAAACCTTTGTATATGGCGGC
 CTGCGCTCTATCGTGGCTGAGTTTGGGACTTTCCCTGTGGACCTACCAAAACACGACTT
 CAGGTTCAAGGCCAAAGCATTGATGCCCGTTTCAAAGAGATAAAATATAGAGGGATGTTT
 CATGCGCTGCTTCGCATCTGTAAAGAGGAAGGTGATTGGCTCTCTATTAGGAATTGCT
 CCTGCGTTGCTAAGACAAGCATCATATGGCACCATTAAATTTGGGATTTACCAAAGCTTG
 AAGCGCTTATTCCTAGACGCTTAGAAGATGAACTCTTTAATAATATGACCTGCGGCG
 CACCGCCCGAGTGATATCCTTCCCTATAGCCAATCCCACCGATGCTCTAAAGATTCCA
 ATGCACGCTCAAGGAAGCTTGTCCACAGCAGCATGATTGGAAGCCTTATCGATATATAC
 CACACAAAAGCACCAGGGGGTCCGTGGAAGGGGTGTGGCTTCCAACCTCGCTCAGCGGGC
 TGCCATCGTTGTAAAGAGCAAAGCTACCCGTCTATGAAATTAACCAAGCCTTTACCAT
 GTCCGGAAGCAGGGCCGACCCAATCTACACCACTTCCTTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003951 unedited
 CCTAATACTTTAATGGANAACCCGGGTCTGTAAACACATATAGCAATAACCACCCTGGCCT
 ATGCCTTCTGCTCTAGCCCAAGTCTGGGGCTAACCAATTACATTTAACACATTTGGAAA
 GCAGGCCGTTTTCAATGTCACCCATCAGTATCCATCTTCATAGAAGATACCAATCTGGGG
 CCAGAGTCTCAATGTAAACACTTTCTCTCGGGGAAAAGTTAACATGGTAACACAAACATA
 GAAATAACTTTGAACCACCCACTGTTCTTCATCAGGAGGCCCTTAGGAGACCAACGGC
 TTGGTAACACATTACAACATTGTCAAAATACATTAGAACACGGGAAAAGGGCAAAGGAGT
 AGAAAGGCTGGCAGGGCTGGGCTCACATATAATTAGTTCTTAGATTTGAAGCCTCTTTA
 GCTGCTCGTATGTAATAAAAAAATGATGTTCCAGGGTCCAAGCCGAAGCCAGTTTGGCC
 AAAATCCTTTATAGAGTGCAAAAAGCCCTCATGTTTCCACATCTTTAAATACCATCAA
 CAGTGCCCTTATAGAGATCCACATGTCCACGATTGCCCTCTGGTTCATCATGCGAGTTC
 GAACCACATCAACCGGTTGGAGGCCAGAGCCCAGCCAAACCACATGTAAGCTGGAAA
 CGAAGTGAGTTAAATTTGATCGCCCATCATTCCTGACATATTAATGCTTCTTAGTAAT
 ATCATAGACTGGTAGCTACTCTACAACGATGGCAGCAGCTGAGCAGTTGGAACAC
 ACCCTNACAGACCCCTGGTGCCTTCTGNTGGTATATATCGATAAAGCTTNCATCATG
 CTNCTTGAACAGCTNNCTGAGCCTGCATTGCAATCTTAGACATCNGTGGATGGCTA
 TAGTGGAGATATACTNCTGCACTACCCNAGATCATATATTAAGATTNCATCTTCTAA
 CGTCTACGATAGCGCTTCAGCTTGGTAATCCATT

Restriction Sites:

NotI-NotI

ACCN:

NM_003951

Insert Size:

1750 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_003951.2, NP_003942.1</u>
RefSeq Size:	1601 bp
RefSeq ORF:	978 bp
Locus ID:	9016
Cytogenetics:	Xq26.1
Domains:	mito_carr
Protein Families:	Druggable Genome
Gene Summary:	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] Transcript Variant: This variant (long) contains 3 more amino acids than the transcript variant short. It is the predominant form in tissues other than brain.