

Product datasheet for **SC328865**

MCT7 (SLC16A6) (NM_001174166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCT7 (SLC16A6) (NM_001174166) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCT7
Synonyms:	MCT6; MCT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328865 representing NM_001174166.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCCAAAATAAATTAAGCTTTGTTCCAAAGCCAATGTGTATACTGAAGTGCCTGATGGAGGATGG
GGCTGGCGGTAGCTGTTTCATTTTCTCGTTGAAGTCTTCACCTACGGCATCATCAAGACATTTGGT
GTCTTCTTTAATGACTTAATGGACAGTTTTAATGAATCCAATAGCAGGATCTCATGGATAATCTCAATC
TGTGTGTTTGTCTTAACATTTTCAGCTCCCTCGCCACAGTCCTGAGCAATCGTTTCGGACACCGCTCG
GTAGTGATGTTGGGGGGGCTACTTGTGACGACCGGGATGGTGGCCGCTCCTTCTCACAAGAGTTTCT
CATATGTACGTCGCCATCGGCATCATCTCTGGTCTGGGATACTGCTTTAGTTTTCTCCAACTGTAACC
ATCCTATCACAATATTTTGGCAAAGACGTTCCATAGTCACTGCAGTTGCTTCCACAGGAGAATGTTTC
GCTGTGTTTGTCTTCGACACGCAATCATGGCTCTGAAGGAGCGCATTGGCTGGAGATACAGCCTCTC
TTCGTGGGCTACTACAGTTAAACATTGTCATCTTCGGAGCACTGCTCAGACCCATCTTTATCAGAGGA
CCAGCGTCACCGAAAATAGTCATCCAGGAAAATCGGAAAGAAGCGCAGTATATGCTTGAAAATGAGAAA
ACACGAACCTCAATAGACTCCATTGACTCAGGAGTAGAACTAACTACCTACCTAAAAATGTGCCTACT
CACACTAACCTGGAACCTGGAGCCGAAGGCCGACATGCAGCAGGTCTGGTGAAGACCAGCCCCAGGCCA
AGCGAAAAGAAAGCCCCGCTATTAGACTTCTCCATTTTGAAGAGAAAAGTTTTATTTGTTATGCATTA
TTTGGTCTCTTTCGAACACTGGGATTCTTTCACCTTCTTGTACATCATTCTCTGGGCATTAGTCTG
GGCATTGACCAGGACCGCGCTGCTTTTTTATTATCTACGATGGCCATTGCAGAAGTTTTCGGAAGGATC
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TTGACTGTGCTCTGTTTGCCTTTACTTTTGTACTGAATCTGGGGTCTAATGTCATGCAGCATATTT
TTTGGTTTATGGTTGGAACAATAGGAGGCACTCACATCCACTGCTTGTGAGGATGATGTCGTGGGC
ATTGAGAAGATGCTTCTGCAGCTGGGGTCTACATCTTCATTGAGCATAGCAGGACTGGCTGGACCG
CCCCTTGAGGTTTGTGGTGGACCAAGTAAGATCTACAGCAGGCTTCTACTCTGCGCAGCTGGC
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TCAGGTGAAACAAAGGTAGTGAGCCATCGTGGGAAGACTTTACAGGACATACCTGAAGACTTTCTGGAA
ATGGATCTTGCAAAAAATGAGCACAGAGTTCACGTGCAATGGAGCCGGTATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001174166

Insert Size: 1572 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001174166.1</u>
RefSeq Size:	3955 bp
RefSeq ORF:	1572 bp
Locus ID:	9120
UniProt ID:	<u>O15403</u>
Cytogenetics:	17q24.2
Protein Families:	Transmembrane
MW:	57.4 kDa
Gene Summary:	Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Both variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.