

Product datasheet for **SC123840**

OXSM (NM_017897) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: OXSM (NM_017897) Human Untagged Clone
Tag: Tag Free
Symbol: OXSM
Synonyms: CEM1; FASN2D; KASI; KS
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_017897 edited
 ATCGCCCCGACTGTGGAGAAGTGTCCGGGGTAGCCCCGTTACAGGAATGTGTTTCTGAT
 CATCTGAATCTTAATCATGTCCAACCTGCCTGCAAAATTTCTGAAAATTACAAGCACTCG
 TCTTCTATGTTCAAGATTATGCCAACAGTTAAGAAGTAAAAGGAAGTTTTTCGGAAGTGT
 GCCAATATCCAGATTGCATAGGCGAGTTGTCATTACAGGCATTGGCTTAGTGACTCCTCT
 TGGTGTGGAACTCACCTGGTTGGGATCGTCTTATCGGAGGAGAGAGTGGAAATTGTTTC
 ACTGGTTGGTGAAGAGTATAAGAGTATCCCTTGCAGTGTGCTGCTTATGTGCCAAGAGG
 TAGTGATGAAGGTCAGTTCAATGAACAAAACCTTTGTGTCCAAATCAGATATCAAGTCCAT
 GTCTTCTCCCACCATCATGGCCATTGGGGCTGCAGAATTAGCCATGAAGGATTCTGGCTG
 GCATCCTCAGTCAGAAGCTGATCAAGTGGCTACTGGTGTGCAATTGGCATGGGAATGAT
 TCCTCTTGAAGTTGTTTCTGAAACTGCTTTGAATTTTCAGACAAAAGGTTACAATAAAGT
 TAGCCCATTTTTGTCCCTAAGATTCTGGTCAATATGGCAGCAGGCCAGGTCAGCATTCCG
 ATATAAATCAAGGGCCCAAATCATGCAGTATCCACAGCCTGTACCACAGGAGCTCATGC
 TGTGGGAGACTCATTAGATTTATAGCCCATGGTATGCTGATGTGATGGTGGCTGGAGG
 TACAGATTCTTGATTAGCCCTTTATCTCTTGCTGGGTTTTCCAGAGCCCCGGGCTCTGAG
 CACAACTCAGATCCCAAGTTGGCATGTCGACCATTTTCATCCAAAGAGAGATGGTTTTGT
 AATGGGAGAAGGTGCAGCTGTGCTGGTGTGGAAGAATATGAACATGCTGTTCAAAGAAG
 AGCCCCGATCTATGCAGAAGTTTTGGGCTATGGACTCTCAGGTGATGCTGGTACATAAC
 TGCCCCGTATCCTGAAGGAGAAGGTGCCCTAAGGTGATGCTGCTGCTTTAAAAGATGC
 AGGTGTGCAGCCTGAGGAGATATCCTATATCAATGCACATGCTACTTCCACACCATTGGG
 AGATGCTGCTGAAAACAAAGCTATCAAACATCTCTTCAAAGACCATGCATATGCCCTTGC
 AGTTTTCTCAACTAAGGGAGCAACAGGACATCTGCTGGGAGCTGCAGGGGAGTCGAGGC
 AGCTTTTACCACATTAGCTTGTTATTATCAAAAACCTACCCTACTTTAAACCTGGATTG
 TTCGGAACCAGAATTTGATCTCAACTATGTTCCACTAAAGGCACAGGAATGGAAAACCTGA
 GAAAAGATTTATTGGCCTACCAATTCTTTGGTTTTGGTGGTACTAATGCAACACTTTG
 TATTGCTGGACTGTAGAACATATAATTTGAATTAATACTGATTTTTAAATGTTAAAAA
 AAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017897 unedited GATCTTCAGTTTTGTNAATACCCACTTCTCTATNAGGGCAGGCCGCGNACTCTCCCGGA TATCGTCGACCCACGCGTCCGATCGCCCCGACTGTGGAGAAGTGTCCGGGGTAGCCCCG TTACAGGAATGTGTTTCTGATCATCTGAATCTTAATCATGTCCAACACTGCCTGCAAAATTT CCTGAAAATTACAAGCACTCGTCTTCTATGTTCAAGATTATGCCAACAGTTAAGAAGTAA AAGGAAGTTTTTCGGAAGTGTGCAATATCCAGATTGCATAGGCGAGTTGTCATTACAGG CATTGGCTTAGTGACTCCTCTTGGTGTGGAACTCACCTGGTTTGGGATCGTCTTATCGG AGGAGAGAGTGGAAATTGTTTCACTGGTTGGTGAAGAGTATAAGAGTATCCCTTGCAGTGT TGCTGCTTATGTGCCAAGAGGTAGTGATGAAGGTCAGTTCAATGAACAAAACCTTTGTGTC CAAATCAGATATCAAGTCCATGTCTTCTCCACCATCATGGCCATTGGGGCTGCAGAATT AGCCATGAAGGATTCTGGCTGGCATCCTCAGTCAGAAGCTGATCAAGTGGCTACTGGTGT TGCAATTGGCATGGGAATGATTCCTCTTGAAGTTGTTTCTGAACTGCTTTGAATTTTCA GACAAAAGGTTACAATAAAGTTAGCCATTTTTTGTCCCTAAGATTCTGGTCAATATGGC AGCAGGCCAGGTCAGCATTTCGATATAAACTCAAGGCCCAAATCATGCAGTATCCACAGC CTGTACCACAGGAGCTCATGCTGTGGGAGACTCATTTAGATTATAGCCCATGGTGTGCT GATGTGATGGTAGCTGGNAGTACAGATTCTGTATAGCCCTTTATCTCTTGTGGTTTTT CCAGAGCCCGGGCTCTGAGCACAAACTCAGATCCCAAGTTGGCATGTCGACCATTCA
Restriction Sites:	Please inquire
ACCN:	NM_017897
Insert Size:	1500 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:	<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:	NM_017897.1 , NP_060367.1
RefSeq Size:	1544 bp
RefSeq ORF:	1380 bp
Locus ID:	54995
UniProt ID:	Q9NWU1
Cytogenetics:	3p24.2
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid biosynthesis, Metabolic pathways

Gene Summary:

This gene encodes a beta-ketoacyl synthetase. The encoded enzyme is required for elongation of fatty acid chains in the mitochondria. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).