

Product datasheet for **RC227145**

OXSM (NM_001145391) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | OXSM (NM_001145391) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | OXSM |
| Synonyms: | CEM1; FASN2D; KASI; KS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC227145 representing NM_001145391 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAACGCTGCAAAATTTCTGAAAATTACAAGCACTCGTCTTCTATGTTCAAGATTATGCCAAC
AGTTAAGAAGTAAAAGGAAGTTTTTCGGAAGTGTGCAATATCCAGATTGCATAGGCGAGTTGTCATTAC
AGGCATTGGCTTAGTGACTCCTCTTGGTGTGGAACCTCACCTGGTTGGGATCGTCTTATCGGAGGAGAG
AGTGAATTTGTTCACTGGTGGTGAAGAGTATAAGAGTATCCCTTGCAATCAGATATCAAGTCCATGTCTTC
GAGGTAGTGATGAAGTCAAGTTCATGAACAAAACCTTTGTGTCCAAATCAGATATCAAGTCCATGTCTTC
TCCACCATCATGGCCATTGGGGCTGCAGAATTAGCCATGAAGGATTCTGGCTGGCATCCTCAGTCAGAA
GCTGATCAAGTGGCTACTGGTGTGCAATTGGCATGGGAATGATTCCTCTTGAAGTTGTTTCTGAAACTG
CTTTGAATTTTCAGACAAAAGGTTACAATAAAGTTAGCCCATTTTTTGTCCCTAAGATTCTGGTCAATAT
GGCAGCAGGCCAGGTCAGCATTGCATATAAACTCAAGGGCCCAAATCATGCAGTATCCACAGCCTGTACC
ACAGGAGCTCATGCTGTGGGAGACTCATTTAGATTTATAGCCCATGGTGTGCTGGTGCACATAACTGCC
CTGATCCTGAAGGAGAAGGTGCCTTAAGGTGTATGGCTGCTGCTTTAAAAGATGCAGGTGTGCAGCCTGA
GGAGATATCCTATATCAATGCACATGCTACTTCCACACCATTGGGAGATGCTGCTGAAAACAAAGCTATC
AAACATCTTTCAAAGACCATGCATATGCCCTTGCAATTCCTCAACTAAGGGAGCAACAGGACATCTGC
TGGGAGCTGCAGGGCAGTCGAGGCAGCTTTTACCACATTAGCTTGTATTATCAAAAACCTACCACCTAC
TTTAAACCTGGATTGTTTCGGAACCAAGATTTGATCTCAACTATGTTCCACTAAAGGCACAGGAATGGAAA
ACTGAGAAAAGATTTATTGGCCTACCAATTCCTTTGGTTTTGGTGGTACTAATGCAACACTTTGTATTG
CTGGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227145 representing NM_001145391
Red=Cloning site Green=Tags(s)

MSNCLQNFLKITSTRLLCSRLCQQLRSKRKFFGTVPISRLHRRVVITGIGLVTPLVGVTGLVWDRDIGGE
 SGIVSLVGEYKSIPCSVAAYVPRGSDEGQFNEQNFVSKDIKSMSSPTIMAIGAAELAMKDSGWHHPQSE
 ADQVATGVAIGMGMIPLEVVSETALNFQTKGYNKVSPFFVPKILVNMAAGQVSIRYKLGPNHAVSTACT
 TGAHAVGDSFRFIAHGDAGHITAPDPEGEGALRCMAAALKDAGVQPEEISYINAHATSTPLGDAENKAI
 KHLFKDHAYALAVSSTKGATGHLLGAAGAVEAAFTTLACYYQKLPTLNLDCSEPEFDLNYVPLKAQEWK
 TEKRFI GLTNSFGFGGT NATLCIAGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8055_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145391

ORF Size: 1128 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001145391.1](#), [NP_001138863.1](#)

RefSeq ORF: 1131 bp

Locus ID: 54995

UniProt ID: [Q9NWU1](#)

Cytogenetics: 3p24.2

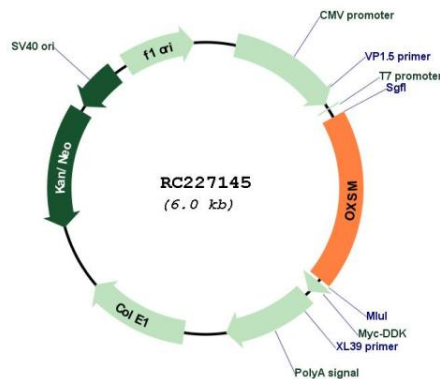
Protein Families: Druggable Genome

Protein Pathways: Fatty acid biosynthesis, Metabolic pathways

MW: 39.9 kDa

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]

Product images:



Circular map for RC227145