

Product datasheet for **RG201500**

OXSM (NM_017897) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OXSM (NM_017897) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OXSM
Synonyms:	CEM1; FASN2D; KASI; KS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201500 representing NM_017897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCAACCTGCCTGCAAAATTTCTGAAAATTACAAGCACTCGTCTTCTATGTTCAAGATTATGCCAAC
 AGTTAAGAAGTAAAAGGAAGTTTTTCGGAAGTGTGCAATATCCAGATTGCATAGGCGAGTTGTCATTAC
 AGGCATTGGCTTAGTGACTCCTCTTGGTGTGGAACCTCACCTGGTTTGGGATCGTCTTATCGGAGGAGAG
 AGTGAATTGTTTCACTGGTTGGTGAAGAGTATAAGAGTATCCCTTGCACTGTTGCTGCTTATGTGCCAA
 GAGGTAGTGATGAAGGTCAAGTCAATGAACAAAATTTGTGTCCAAATCAGATATCAAGTCCATGTCTTC
 TCCCACCATCATGGCCATTGGGGCTGCAGAATTAGCCATGAAGGATTCTGGCTGGCATCCTCAGTCAGAA
 GCTGATCAAGTGGCTACTGGTGTGCAATTGGCATGGGAATGATTCCTCTGAAGTTGTTTCTGAAACTG
 CTTTGAATTTTTCAGACAAAAGGTTACAATAAAGTTAGCCATTTTTTTGTCCCTAAGATTCTGGTCAATAT
 GGCAGCAGGCCAGGTCAAGTTCGATATAAACTCAAGGGCCAAATCATGCAGTATCCACAGCCTGTACC
 ACAGGAGCTCATGCTGTGGGAGACTCATTAGATTATAGCCCATGGTGTGCTGATGTGATGGTGGCTG
 GAGGTACAGATTCTGTATTAGCCCTTTATCTCTTGTGGTTTTCCAGAGCCCGGGCTCTGAGCACAAA
 CTCAGATCCCAAGTTGGCATGTCGACCATTTTATCCAAAGAGAGATGGTTTTGTAATGGGAGAAGGTGCA
 GCTGTGCTGGTGTGGAAGAATATGAACATGCTGTTCAAAGAAGAGCCCGGATCTATGCAGAAGTTTTGG
 GCTATGGACTCTCAGGTGATGCTGGTACATAACTGCCCTGATCCTGAAGGAGAAGGTGCCTTAAGGTG
 TATGGCTGCTGCTTTAAAAGATGCAGGTGTGCAGCCTGAGGAGATATCCTATATCAATGCACATGCTACT
 TCCACACCATGGGAGATGCTGCTGAAAACAAAGCTATCAAACATCTCTTCAAAGACCATGCATATGCC
 TTGCAGTTTTCTCAACTAAGGGAGCAACAGGACATCTGCTGGGAGCTGCAGGGGCAGTCGAGGCAGCTTT
 TACCACATTAGCTTGTATTATCAAAAACCTACCCTACTTTAAACCTGGATTGTTTCGGAACCCAGAATTT
 GATCTCAACTATGTTCCACTAAAGGCACAGGAATGAAAACTGAGAAAAGATTTATTGGCCTCACCAATT
 CCTTTGGTTTTGGTGGTACTAATGCAACACTTTGTATTGCTGGACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201500 representing NM_017897
 Red=Cloning site Green=Tags(s)

MSNCLQNFLKITSTRLLCSRLCQQLRSKRKFFGTVPISRLHRRVVITGIGLVTPLVGVGTHLVWDRLIGGE
 SGIVSLVGEYKSIPCSVAAYVPRGSDEGFNEQNFVSKSDIKSMSSPTIMAIGAAELAMKDSGWHPQSE
 ADQVATGVAIGMGMIPLEVVSETALNFQTKGYNKVSPPFVVKILVNMAAGQVSIRYKLGPNHAVSTACT
 TGAHAVGDSFRFIAHGDADVMVAGGTDSCISPLSLAGFSRARALSTNSDPKLACRPFHPKRDGFVMGEA
 AVLVLEEYEHAVQRRARIYAEVLGYGLSGDAGHITAPDPEGEGALRCMAAALKDAGVQPEEISYINAHAT
 STPLGDAENKAIKHLFKDHAYALAVSSTKGATGHLLGAAGAVEAAFTTLACYYQKLPPTLNLDCEPEF
 DLNYVPLKAQEWKTEKRFIGLTNSFGFGGTNATLCIAGL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017897

ORF Size: 1377 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_017897.3](#)

RefSeq Size: 1544 bp

RefSeq ORF: 1380 bp

Locus ID: 54995

UniProt ID: [Q9NWX1](#)

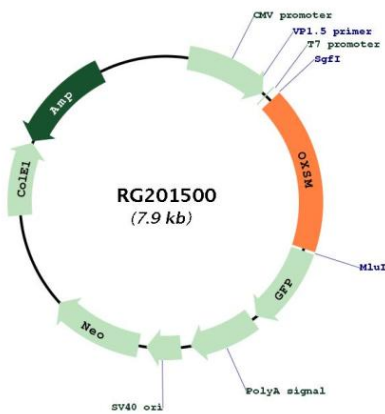
Cytogenetics: 3p24.2

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]

Product images:



Circular map for RG201500