

Product datasheet for **SC126627**

SETMAR (AK098595) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETMAR (AK098595) Human Untagged Clone
Tag:	Tag Free
Symbol:	SETMAR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK098595, the custom clone sequence may differ by one or more nucleotides

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ACAAGCGCTTCCTTGCCGAGAGGCTGGAGCTGCGGCACCGCAGGCCTGAGCCACCCCTTCTCTGCTGTCT  
CCTTCTCTTCTCAGGGCTCCCCTGTCTGCTCGCCCTCCGACGCTGCTCAGAATATTAAGGAGACAGGA  
AGAAGTCCAGATGAAGTGACTCATGGAACCATTGTTTATCTGAACCTGAGCTAAATCTTAGGAGAGAAG  
GACTATGGAAATGATGTTAGACAAAAAGCAAATCAAGTGATTTTCTTATTCAAGTTCAAAATGGGTCAT  
AAAGCAGCAGAGACAACCTCGCAGCATCAACAATGCATTTGGCCCAGAAAATGCTAACAAAGGTACAGTGC  
AGTGGTGGTTCAAGAACTTTTGCAAAGGAGACGAGAGCCGTGAAGATGAGGAGTGTGTGCCCGGCCATC  
AAAAGTTGGCAACGACCAATTGAGAGCAATCATCGAAGCTGATCCTTTACAACACTAGAAGTTGCCGAG  
AACTCAACATCAACCATCCTACGGTCATTCAGCATTTGAAGCAAATTAGAAGTTGTAAGCTCGATAA  
GTGGGTGCCTCATGAGCTGACTGAAAATAAAAACAATTGTCATTTTGAAGTGTGTCTTCTTACTTTG  
TGTAACAACAATGAACCATTTCTTGATCAGATTGTGACGTGCGTTGGTAAGTGGATTTTATGACAACC  
GCTGATGACCAGCTTGGTGGTTGGACTGAGAAGAAGCTCCAGAGCACTTCCCAAAGCCAACTTCTACCA  
AAATGTTAATGGTCACTGTTTGATGGTCTGCTGCCGCTGATCCACTACAGCTTTCTGAGTTCAGCAA  
AACCATTACATCTGAGAAGTATGCTCAACAAATCTCTGAGATGCATGGAAAGCTGCAACGCCTGCAGCCA  
GCATTGATCAACATAAAGGGCCAGTCTTCGGCACAACAATGCCTGACAATGCGTCGCACAACCAACGC  
TTCAAAGTTGAATGAATTGGGCACAAAGTTTTGCCTCATCCACCGTATTCACCTGACTTCTTGCCAACT  
GACTACCACTTCTCAAGCATCTCAGCAACTTTTTGCAGGGAAGATGTTTCCACAACCAGAATGCAGAAA  
AAGCTTTCCAAGAGTTTATCGGATCCCAGATCACACATTTTTACTACAGGAATAAATAAACTTATTTT  
TCATTGGCAAAAATGTGTTGATTGTAATGTTTCTATTTTATGTAATAAAGATGTGTTTGAGCCT
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK098595 unedited NGTTCAAATTTTGTATACGACTTCACTATAGGGCGGCCGGAATCGGCACCAGGCACCGC AGGCCTGAGCCACCCCTTCTCTGCTGTCTCCTTCTTCTCAGGGCTCCCGTGTCTGCT CGCCCTCCGACGCTGCTCAGACTATGAAATGATGTTAGACAAAAAGCAAATCAAGTGA TTTTCTTATTCAAGTTCAAAATGGGTCATAAAGCAGCAGAGACAACCTCGCAGCATCAACA ATGCATTTGGCCAGAAATTGCTAACAAAGGTACAGTGCAGTGGTGGTTCAAGAACTTTT GCAAAGGAGACGAGAGCCGTGAAGATGAGGAGTGTGTGCCCGCCATCAAAAGTTGGCA ACGACCAATTGAGAGCAATCATCGAAGCTGATCCTTACAACACTAGAAGTTGCCGAGA ACTCAACATCAACCATCCTACGGTCATTGAGCATTGAAAGCAAATTAGAAGTTGTA GCTCGATAAGTGGGTGCCTCATGAGCTGACTGAAAATAAAAAACAATCGTCATTTTGAAGT GTTGTCTTCTTACTTTGTGTAACAACAATGAACCATTTCTTGATCAGATTGTGACGTG CGTTGGTAAGTGGATTTTATATGACAACCGCTGATGACCAGCTTGGTGGTTGGACTGAGA AGAAGCTCCAGAGCACTCCCAAGCCAACTTCTACCAAATGGTAATGGTCACTGTTTGA TGGTCTGCTGCCGTCTGATCACTACAGCTTCTGAGTTCAGCAAACCATTACTCTGGA AAGTATGCCTCACAATCTTGAGATGCATGAAGCTGCAACGCTGCACCANATGATCACCTT AAGGGCCAGTCCTTNGGACAAACATGCTGACAATGCNTGACAACCACGTTTAAAGTGG ATGAAG
Restriction Sites:	NotI-NotI
ACCN:	AK098595
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:	AK098595.1
RefSeq Size:	1255 bp
RefSeq ORF:	1255 bp
Locus ID:	6419
Cytogenetics:	3p26.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Lysine degradation

Gene Summary:

This gene encodes a fusion protein that contains an N-terminal histone-lysine N-methyltransferase domain and a C-terminal mariner transposase domain. The encoded protein binds DNA and functions in DNA repair activities including non-homologous end joining and double strand break repair. The SET domain portion of this protein specifically methylates histone H3 lysines 4 and 36. This gene exists as a fusion gene only in anthropoid primates, other organisms lack mariner transposase domain. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]