

Product datasheet for **SC314383**

SETMAR (NM_006515) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETMAR (NM_006515) Human Untagged Clone
Tag:	Tag Free
Symbol:	SETMAR
Synonyms:	Mar1; METNASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

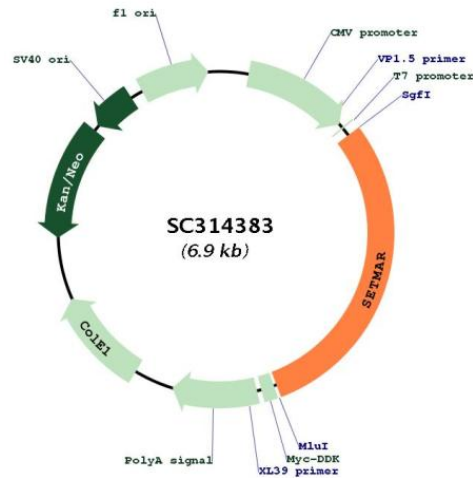


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Fully Sequenced ORF: >SC314383 representing NM_006515.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
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CCGACTGAGCAGCTGGATGTGCGGTGCGGCCAGGAAAACCTGCCGGTGGGCGCGTGGCCCCGGGGGCC
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Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_006515

Insert Size: 2055 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: [NM_006515.3](#)

RefSeq Size: 2157 bp

RefSeq ORF: 2055 bp

Locus ID: 6419

UniProt ID: [Q53H47](#)

Cytogenetics: 3p26.1

Domains:	SET, Transposase_1, PreSET, Pre-SET
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Lysine degradation
MW:	78 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>