

## Product datasheet for **SC327972**

### 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)

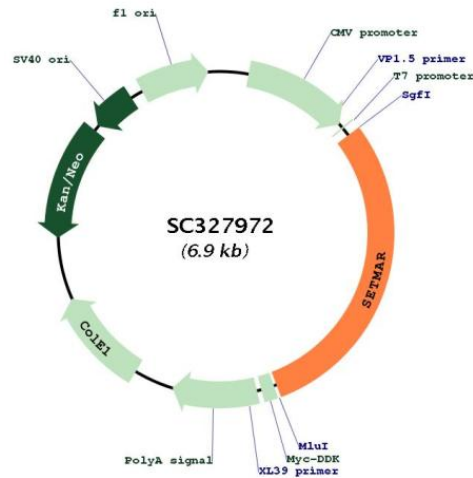


[View online »](#)

Fully Sequenced ORF: >SC327972 representing NM\_006515.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTCCGCGGAAGCGGCAAGACGACACGGCCTTGTGGGATGGCGGAGTTTAAGGAGAAGCCTGAGGCC
CCGACTGAGCAGCTGGATGTGCGGTGCGGCCAGGAAAACCTGCCGGTGGGCGCGTGGCCCCGGGGGCC
GGCCCGCGCCCTTCCAGTACACTCCTGATCATGTAGTTGGACCTGGAGCAGACATTGATCCCACTCAA
ATAACCTTTCCCGGATGCATTTGTGTCAAACTCCCTGCCTCCCTGGCACTTGTCTGTCTCCGCCAT
GGAGAGAATAATGATGATAAATCATGCCTTAGAGATATAGGATCTGGAGGAAAGTATGCAGAGCCTGTT
TTTGAATGCAATGTCTGTGCCGATGCAGTGACCACTGCAGAAACAGAGTGGTCCAGAAAGGTCTACAG
TTCCACTTCCAAGTGTCAAGACGCATAAAAAAGGCTGGGGACTTCGTACCTTGAATTTATACGAAA
GGAAGGTTTGTCTGTGAATATGTGGTGAAGTTTTAGGATTCTCTGAAGTTCAGAGAAGAATTCACCTA
CAAACAAAATCCGACTCCAATTACATTATAGCCATCAGGGAACATGTTTATAATGGGCAGGTAATGGAA
ACATTTGTTGACCCTACTTATATAGGAAATATTGGAAGATTCCTTAATCATTCTGTGAGCCAAACCTT
TTGATGATTCTGTCCGAATTGACTCAATGGTACCTAAGTTGGCACTTTTTGCAGCCAAAGATATTGTG
CCAGAAGAAGAACTCTCTTATGATTATTCAGGAAGATATCTTAATCTAACAGTCAGTGAAGACAAAGAA
AGGCTAGATCATGGGAACTAAGGAAACCTTGTTACTGTGGTGCCAAATCATGACTGCTTTCCTGCCT
TTTGACAGTTCTCTGACTGCCCGTAGAAAAGTCGAACATCAGTTGTGGAAATGAGAAGGAACCCAGC
ATGTGTGGCTCAGCCCTTCTGTGTTCCCTCTGCAAGCGATTGACCCTTGAGACTATGAAAATGATG
TTAGACAAAAAGCAAATTCGAGCAATTTCTTATTCGAGTTCAAATGGGTCGTAAGCAGCAGAAAAACA
ACTCGAACATCAACAATGCATTTGGCCAGGAACTGTAACGAACGTACAGTGCAGTGGTGGTTCAAG
AAGTTTTGCAAAGGAGATGAGAGCCTTGAAGATGAGGAGCGTAGTGGCCGCCATCAGAAGTTGACAC
GACCAGTTGAGAGCAATCATCGAAGCTGATCCCTTACAACACACGAGAAGTTGCTGAAGAATCAAT
GTCAACCATTCTACGGTCGTTCCGACATTTGAAGCAAATGGAAAGGTGAAAAAGCTCGATAAGTGGGTG
CCTCATGAGCTGACTGAAAATCAAAAAATCGTCGTTTTGAAGTGCATCTTCTCTTATTCTACGCAAC
CACAACGAACCATTTCTCGATCGGATTGTGACGTGTGATGAAAAGTGGATTTTATATGACAACCGGCGA
CGATCAGCTCAGTGGTTGGATCAAGAAGAAGCTCCAAAGCACTTCCAAAGCCAATCTTGACCCAAAA
AAGGTCATGGTCACTATTTGGTGGTCTGCTGCTGGTCTGATCCACTACAGCTTTCTGAATCCCGGTGAA
ACCATTACATCTGAGAAGTATGCTCAGGAAATCGATGAGATGAACCAAAAACTGCAACGCCTGCAGCTG
GCATTGGTCAACAGAAAGGCCCAATTCTCTCCACGACAATGCCCGACCGCATGTTGCACAACCCACA
CTTCAAAAGTTGAATGAATTGGGCTATGAAGTTTTGCCTCATCCACCGTATTCACCTGACCTCTTGCCA
ACCAACTACCACGTCTTTAAGCATCTCAACAACTTTTTGCAGGGAAAACGCTTCCACAACAGCAGGAT
GCAGAAAATGCTTTCCAAGAGTTCGTGCAATCCCAAAGCAGGATTTTTACGCTACAGGAATAAACCAA
CTTATTTCTCGTTGGCAAAAATGTGTTGATTGTAATGGTTCTATTTTGATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

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

<b>Domains:</b>	SET, Transposase_1, PreSET, Pre-SET
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Lysine degradation
<b>MW:</b>	78 kDa
<b>Gene Summary:</b>	<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>