

## Product datasheet for **RC229337L4V**

### SETMAR (NM\_006515) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	SETMAR (NM_006515) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SETMAR
Synonyms:	Mar1; METNASE
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_006515
ORF Size:	2052 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC229337).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_006515.3</a> , <a href="#">NP_006506.3</a>
RefSeq ORF:	2055 bp
Locus ID:	6419
UniProt ID:	<a href="#">Q53H47</a>
Cytogenetics:	3p26.1
Domains:	SET, Transposase_1, PreSET, Pre-SET
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Lysine degradation



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**MW:** 77.9 kDa

**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]