

Product datasheet for **RG233886**

SETMAR (NM_001276325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETMAR (NM_001276325) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SETMAR
Synonyms:	Mar1; METNASE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233886 representing NM_001276325 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCGCGGAAGCGGCAAAGACGACACGGCCTTGTTGGGATGGCGGAGTTTAAGGAGAAGCCTGAGGCC
CGACTGAGCAGCTGGATGTCGCGTGCAGCCAGGAAACTTGCCGGTGGCGCGTGGCCCCGGGGCCGC
GCCGGCGCCCTCCAGTACACTCCTGATCATGTAGTTGGACCTGGAGCAGACATTGATCCCACTCAAATA
ACCTTTCCGGATGCATTTGTGCAAACTCCCTGCCTCCCTGGCACTTGCTCCTGTCTCCGCCATGGAG
AGAACTATGATGATAACTCATGCCTTAGAGATATAGGATCTGGAGAAAGTATGCAGAGCCTGTTTTTGA
ATGCAATGTCCTGTGCCGATGCAGTGACCACTGCAGAAACAGAGTGGTCCAGAAAGTCTACAGTCCAC
TTCCAAGTGTTCAAGACGCATAAAAAAGGCTGGGACTTCGTACCTTGAATTTATACCGAAAGGAAGGT
TTGTCTGTGAATATGCTGGTGAGGTTTTAGGATTCCTGAAGTTCAGAGAAGAATCACTTACAAACAAA
ATCCGACTCCAATTACATTATAGCCATCAGGGAACATGTTTATAATGGGCAGGTAATGGAACATTTGTT
GACCCTACTTATATAGGAAATTTGGAAGATTCCTAATCATTCTGTGAGCCAAACCTTTTGATGATTC
CTGTCCGAATTGACTCAATGGTACCTAAGTTGGCACTTTTGCAGCCAAAGATATTGTGCCAGAAGAAGA
ACTCTCTTATGATTATTCAGGAAGATATCTTAATCTAACAGTCAGTGAAGACAAAGAAAGGCTAGATCAT
GGGAACTAAGGAAACCTTGTTACTGTGGTGCCAAATCATGTACTGCTTTCTGCCTTTTGACAGTTCTC
TGTAAGTCCCGTAGAAAAGTCGAACATCAGTTGTGGAATGAGAAGGAACCCAGCATGTGTGGCTCAGC
CCCTTCTGTGTTCCCTCCTGCAAGCGATTGACCTTGAGGTGAGTCTGTTTCAGTGATAAGCAGCTTGCC
CCTCCCTATAGTGAAGACAGTGGTTGGCTAGCTTTACCTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233886 representing NM_001276325
 Red=Cloning site Green=Tags(s)

MFAEAAKTRPCGMAEFKEKPEAPTEQLDVACGQENLPVGAWPPGAAPPFQYTPDHVVGPADIDPTQI
 TFPGCICVKTPLPGTCSCLRHGENYDDNSCLRDIGSGGKYAEPVFECNVLCRCSDHCRNRVVQKGLQFH
 FQVFKTHKKGWGLRTELEIPKGRFVCEYAGEVLGFSEVQRRIHLQTKSDSNYIIAIREHVYNGQVMTFV
 DPTYIGNIGRFLNHSCEPNLLMIPVRIDSMVPKLALFAAKDIVPEEELSYDYSGRYLNLTVSEDKERLDH
 GKLRKPCYCGAKSCTAFLPFDDSSLYCPVEKSNISCGNEKEPSMCGSAPSVFPCKRLTLEVSFLSDKQLA
 PPYSGRQWLASFTSA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001276325

ORF Size: 1095 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_001276325.1](#), [NP_001263254.1](#)

RefSeq Size: 1775 bp

RefSeq ORF: 1098 bp

Locus ID: 6419

UniProt ID: [Q53H47](#)

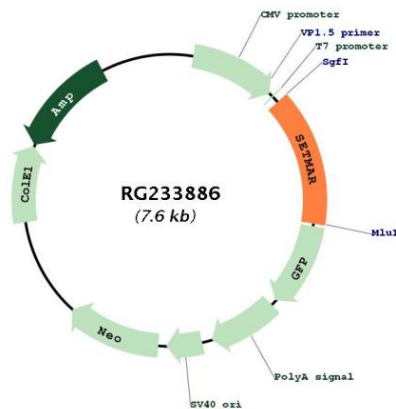
Cytogenetics: 3p26.1

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]

Product images:



Circular map for RG233886