

Product datasheet for **RR216334**

Setmar (NM_001025048) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Setmar (NM_001025048) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Setmar |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RR216334 representing NM_001025048 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCGGAAGCTGTGAAAAAGCTTTCTTCGAGATAGCACCATCTGAGGAGGAATCTGAGGCCACGA
TAGAACAAACAAGATGTAGCGTGCGGCCTGGAGAAGCTTCCCGTGAGCCTGTGGCCCTTGGGGCGGGGCC
CAGGCCTAAACCTTTCCAGTATACTCCTGATCATGTAGCTGGCCTGGAGTAGACATGGACCCACACAA
ATAACCTTCCCTGGTTGTGCTTGCATCAAACTCCATGTGTCCCTGGTACTTGTCTCTTTCGTCATG
AGAGTAACTACAATGACAATTTATGCCTTAGGGATGTGGGATCAGAAGCAAAGTACGCCAAGCCAGTCTT
TGAATGCAATGTTCTGTGCCAGTGTGGCAGCACTGCAGAAACAGGGTGGTCCAGAGTGGTCTCCAGTTC
CTTCTCCAGGTATTCCAGACAGAAAAAAGGCTGGGACTTCGGACCTTGAATATATACCCAAGGGAA
GATTCTGCTGTGAGTATGCTGGGAGGTATTAGGATTCTCTGAAGTACAAAGAAGAATTCACCTACAAC
AGCACATGACCCAAATTACATCATCGCCCTCAGGGAGCACACATACAATGGCCAGGTCATGGAAACATTT
GTCGACCTACCTACATAGGAAATATTGGGAGATTCTCAATCATTCTTGTGAACCAAATCTGTTGATGA
TTCTGTCCGAATTGACTCAATGGTCCCAAGCTCGCACTTTTTGCAGCCAAAGATATTTTCCAGGAGA
AGAAGTCTTTACGACTATTAGGAAGATTCTTAATCAAATAAGCAGTAAAGACAAAGAAAGGATAGAC
TGTGGACAACCAAGGAAGCCTTGTACTGCGGTGCCCAATCATGTGCCACTTTCTGCCCTATGACAGTT
CACTATATGGCCCTTAGAAAAATCCAGGCACCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216334 representing NM_001025048
 Red=Cloning site Green=Tags(s)

MSAEAVKKLSFEIAPSEEESEATIEQQDVACGLENLPVSLWPLGAGPRPKPFQYTPDHVAGPGVMDPTQ
 ITFPGCACIKTPCVPGTCSCLRHESNYNDNLCLRDVGSEAKYAKPVFECNVLCCGGEHCRNRVVQSLQF
 LLQVFQTEKKGWGLRTLEYIPKGRFVCEYAGEVLGFSEVQRRIHLQTAHDPNYIIALREHTYNGQVMETF
 VDPTYIGNIGRFLNHSCEPNLLMIPVRIDSMVPKALALFAAKDILPGEELSYDYSGRFLNQISSKDKERID
 CGQPRKPCYCGAQSCATFLPYDSSLYGPLENPGTS

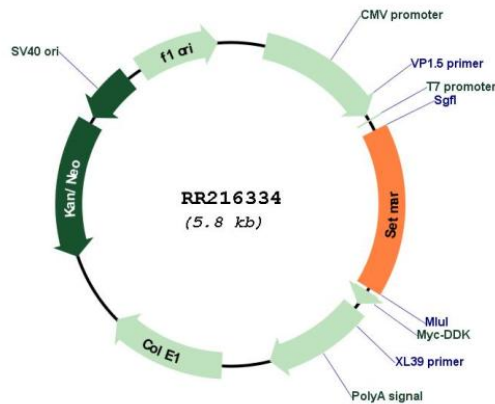
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025048

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|-------------------------------|---|
| ORF Size: | 945 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: | <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: | NM_001025048.1 , NP_001020219.1 |
| RefSeq Size: | 1569 bp |
| RefSeq ORF: | 948 bp |
| Locus ID: | 500281 |
| UniProt ID: | Q5I0M0 |
| Cytogenetics: | 4q41 |
| MW: | 35 kDa |
| Gene Summary: | This gene encodes a histone-lysine N-methyltransferase that may be involved in the methylation of histone H3. In anthropoid primates this gene is a fusion gene of a SET histone-lysine N-methyltransferase and a mariner (MAR) family transposase. In all other species this gene contains only the SET domain. [provided by RefSeq, Feb 2013] |