

## Product datasheet for **MC226741**

### Set (NM\_001204875) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Set (NM\_001204875) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Set  
**Synonyms:** 2610030F17Rik; 5730420M11Rik; AA407739; I-2PP2A; StF-IT-1; TAF-I  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226741 representing NM\_001204875  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCTGCGCCGACGGCCAAAGCCAGTAAAAGGAGCTCAACTCCAATCACGACGGGGCCGACGAGACCT  
CAGAAAAAGAACAGCAAGAAGCAATTGAACATATTGATGAAGTACAAAATGAAATAGACAGACTTAATGA  
ACAAGCCAGTGAGGAAATTTTGAAGTAGAACAAAATATAACAACTCCGCCAACCATTTTTTCAGAAG  
AGGTCAGAATTGATCGCCAAAATCCCAAATTTTGGGTAAACAACATTTGTCAACCATCCACAAGTGTCTG  
CACTGCTTGGGGAGGAGGACGAGGAGGCTGCTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGA  
CATTAAATCAGGTTACAGAATAGATTTTATTTTATTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCC  
AAAGAATTTTCACTGAACGAGAGTGGTGACCCGCTCTTCAAAGTCCACCGAAATCAAATGGAATCTGGAA  
AGGATTTGACAAAACGCTCAAGTCAAACGAAAATAAGGCCAGCAGGAAGAGGCAGCACGAAGAGCCAGA  
GAGCTTCTTTACCTGGTTACTGACCATTCTGACGCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGAT  
GACATCTGGCCAAATCCCTTGCAGTACTACCTGGTTCCCGACATGGATGATGAAGAAGGAGAGGCAGAAG  
ATGATGATGACGACGACGAAGAGGAGGGGCTGGAAGATATTGATGAAGAAGGAGATGAGGATGAAGG  
TGAAGAAGATGACGATGAGGATGAAGGGGAGGAAGGAGAGGAGGACGAAGGCCGAGGATGAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001204875  
**Insert Size:** 834 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001204875.1, NP_001191804.1</u>
<b>RefSeq Size:</b>	2833 bp
<b>RefSeq ORF:</b>	834 bp
<b>Locus ID:</b>	56086
<b>UniProt ID:</b>	<u>Q9EQU5</u>
<b>Cytogenetics:</b>	2 B
<b>Gene Summary:</b>	<p>Multitasking protein, involved in apoptosis, transcription, nucleosome assembly and histone chaperoning. Isoform 2 anti-apoptotic activity is mediated by inhibition of the GZMA-activated DNase, NME1. In the course of cytotoxic T-lymphocyte (CTL)-induced apoptosis, GZMA cleaves SET, disrupting its binding to NME1 and releasing NME1 inhibition. Isoform 1 and isoform 2 are potent inhibitors of protein phosphatase 2A. Isoform 1 and isoform 2 inhibit EP300/CREBBP and PCAF-mediated acetylation of histones (HAT) and nucleosomes, most probably by masking the accessibility of lysines of histones to the acetylases. The predominant target for inhibition is histone H4. HAT inhibition leads to silencing of HAT-dependent transcription and prevents active demethylation of DNA. Both isoforms stimulate DNA replication of the adenovirus genome complexed with viral core proteins; however, isoform 2 specific activity is higher (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) encodes the shorter isoform (2; also known as isoform beta).</p>