

## Product datasheet for MR228952

### Set (NM\_001204875) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Set (NM_001204875) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Set
Synonyms:	2610030F17Rik; 5730420M11Rik; AA407739; I-2PP2A; StF-IT-1; TAF-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228952 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCGCCGACGGCCAAAGCCAGTAAAAGGAGCTCAACTCCAATCACGACGGGGCCGACGAGACCT  
CAGAAAAAGAACAGCAAGAAGCAATTGAACATATTGATGAAGTACAAAATGAAATAGACAGACTTAATGA  
ACAAGCCAGTGAGGAAATTTTGAAGTAGAACAAAATAACAACTCCGCCAACCATTTTTTCAGAAG  
AGGTCAGAATTGATCGCCAAAATCCAAATTTTGGGTAACAACATTTGTCAACCATCCACAAGTGTCTG  
CACTGCTTGGGGAGGAGGACGAGGAGGCTCTGCATTATTTGACCAGAGTTGAAGTGACAGAAATTTGAAGA  
CATTAAATCAGGTTACAGAATAGATTTTTATTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCC  
AAAGAATTTTCATCTGAACGAGAGTGGTGACCCGCTCTTCAAAGTCCACCGAAATCAAATGGAAATCTGGAA  
AGGATTTGACAAAACGCTCAAGTCAAACGCAAAAATAAGGCCAGCAGGAAGAGGCAGCACGAAGAGCCAGA  
GAGCTTCTTTACCTGGTTTACTGACCATTTCTGACGCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGAT  
GACATCTGGCCAAATCCCTTGCAGTACTACCTGGTTCCCGACATGGATGATGAAGAAGGAGAGGCAGAAG  
ATGATGATGACGACGACGAAGAGGAGGGGCTGGAAGATATTGATGAAGAAGGAGATGAGGATGAAGG  
TGAAGAAGATGACGATGAGGATGAAGGGGAGGAAGGAGAGGAGGACGAAGCCGAGGATGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

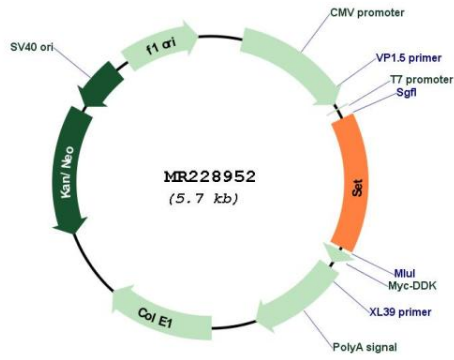


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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room 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>	<a href="#">NM_001204875.1</a> , <a href="#">NP_001191804.1</a>
<b>RefSeq Size:</b>	2833 bp
<b>RefSeq ORF:</b>	834 bp
<b>Locus ID:</b>	56086
<b>UniProt ID:</b>	<a href="#">Q9EQU5</a>
<b>Cytogenetics:</b>	2 B
<b>MW:</b>	32.1 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR228952