

Product datasheet for RN203618

Set (NM_001012504) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Set (NM_001012504) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Set
Synonyms:	Ab1-115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN203618 representing NM_001012504 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCCCCGAAGCGGCAATCTGCGATCCTGCCTCAGCCCAAGAAACCCAGACCCGTTGCTGCCCGAAGC
TGGAGGACAAGTCGGCTCTCCCGCCTGCCGAAGGGAGAAAAAGAACAGCAAGAAGCAATTGAACATAT
TGATGAAGTACAAAATGAAATAGACAGGCTTAATGAACAAGCCAGTGAGGAAATTTGAAAGTAGAACAA
AAATATAACAAACTCCGCCAACATTTTTTCAGAAGAGGTGAGAATTGATCACAAAATCCCAAATTTTT
GGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGACGAGGAGGCCCTGCA
CTATTTGACCAGATTGAAGTGACAGAATTTGAAGACATTAATCAGTTACAGAATAGATTTTTATTTT
GATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAAATTCATCTGAATGAGAGCGGTGACCCAT
CTTCAAAGTCCACCGAAATCAAATGAAAATCTGGAAAGGATTTGACAAAATGCTCAAGTCAAACGAGAA
TAAGGCCAGCAGGAAGAGGCAGCACGAAGAGCCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCAGAC
GCAGGTGCTGACGAGTTAGGAGAGGTGATCAAAGATGATATTTGGCCAAATCCTTTGCAGTACTATTTGG
TTCCCATATGGATGATGAAGAAGGAGACGAGGACGAAGGTGAAGAAGACAATGATGAGGATGAAGGGGAGGAA
GGAGAGGAGGATGAAGGCCGAGGATGAC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001012504
Insert Size:	870 bp



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OTI Disclaimer:	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).
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:	<u>NM_001012504.1</u> , <u>NP_001012522.1</u>
RefSeq Size:	1519 bp
RefSeq ORF:	870 bp
Locus ID:	307947
UniProt ID:	<u>Q63945</u>
Cytogenetics:	19q12
Gene Summary:	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]