

Product datasheet for **RG233593**

SET (NM_001248001) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SET (NM_001248001) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SET
Synonyms:	2PP2A; I2PP2A; IGAAD; IPP2A2; MRD58; PHAPII; TAF-I; TAF-IBETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233593 representing NM_001248001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCCTCGTCCCATCAGCCGCCGCCGCCACATGAAAAAGAACAGCAAGAAGCGATTGAACACA
TTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAGTGAGGAGATTTTGAAGTAGAACA
GAAATATACAAACCTCCGCAACCATTTTTTTCAGAAGAGGTCAGAATTGATCGCCAAAATCCCAAATTTT
TGGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGATGAAGAGGCACTGC
ATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAATCAGGTTACAGAATAGATTTTTATTT
TGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCAAAGAATTCATCTGAATGAGAGTGGTGATCCA
TCTTCGAAGTCCACCGAAATCAAATGGAATCTGGAAAGGATTTGACGAAACGTTTCGAGTCAAACGCAGA
ATAAAGCCAGCAGGAAGAGGCAGCATGAGGAACAGAGAGCTTCTTACCTGGTTTACTGACCATTCTGA
TGCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTG
GTTCCCGATATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGATGAAGAGGAGGAAGGAT
TAGAAGATATTGACGAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGGGGAGGA
AGGAGAGGAGGATGAAGGAGAAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233593 representing NM_001248001
 Red=Cloning site Green=Tags(s)

MMPRSHQPPPPHEKEQQEAIIEHIDEVQNEIDRLNEQASEEILKVEQKYNKLRQPPFFQKRSELIKIPNF
 WVTTFVNHQPVSALLGEEDEEALHYLTRVEVTEFEDIKSGYRIDFYFDENPYFENKVLSEKPHLNESEDP
 SSKSTEIKWKSCKDLTKRSSQTQNKASRKRQHEEPESFFTWFTDHSADAGADELGEVIKDDIWPNPLQYYL
 VPDMDEEGEGEEDDDDEEEGLEIDIEEGDEDEGEEDDDDEGEEGEEDEGEDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001248001

ORF Size: 798 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_001248001.2](#)

RefSeq Size: 2562 bp

RefSeq ORF: 801 bp

Locus ID: 6418

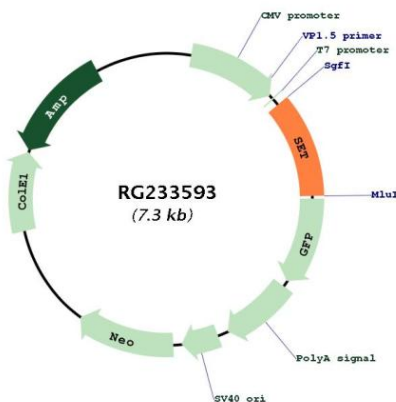
UniProt ID: [Q01105](#)

Cytogenetics: 9q34.11

Protein Families: Druggable Genome, Phosphatase, Stem cell - Pluripotency

Gene Summary: The protein encoded by this gene inhibits acetylation of nucleosomes, especially histone H4, by histone acetylases (HAT). This inhibition is most likely accomplished by masking histone lysines from being acetylated, and the consequence is to silence HAT-dependent transcription. The encoded protein is part of a complex localized to the endoplasmic reticulum but is found in the nucleus and inhibits apoptosis following attack by cytotoxic T lymphocytes. This protein can also enhance DNA replication of the adenovirus genome. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG233593