

## Product datasheet for **RG233598**

### SET (NM\_001248000) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SET (NM_001248000) 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:	>RG233598 representing NM_001248000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGATGCAGAGACCTCCTGCCAGCTTGAAACCTACCTTGCTGGAAAAAGAACAGCAAGAAGCGATTG  
AACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAGTGAGGAGATTTTGAAAGT  
AGAACAGAAATATAACAACTCCGCCAACCATTTTTTCAGAAGAGGTCAGAATTGATCGCCAAAATCCCA  
AATTTTTGGGTAAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGATGAAGAGG  
CACTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAATCAGGTTACAGAATAGATTT  
TTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCAAAGAATTTTCATCTGAATGAGAGTGGT  
GATCCATCTTCGAAGTCCACCGAAATCAAATGGAATCTGGAAAGGATTTGACGAAACGTTTCGAGTCAAA  
CGCAGAATAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCGAGAGCTTCTTTACCTGGTTTACTGACCA  
TTCTGATGCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTAC  
TACTTGTTCCCGATATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGATGAAGAGGAGG  
AAGGATTAGAAGATTTGACGAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGG  
GGAGGAAGGAGAGGAGGATGAAGGAGAAGATGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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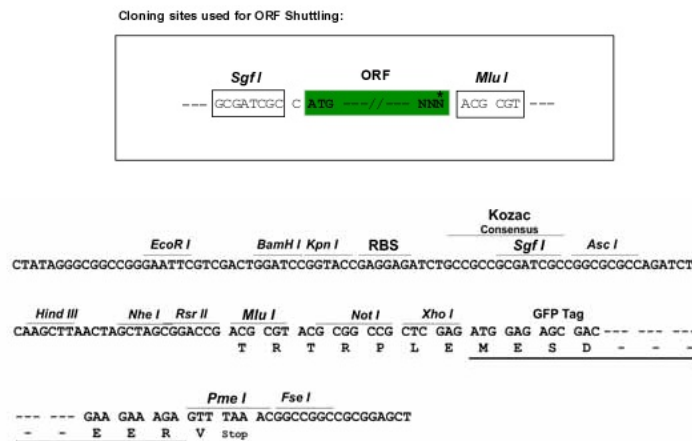
**Protein Sequence:** >RG233598 representing NM\_001248000  
 Red=Cloning site Green=Tags(s)

MGCRDLLPSLKPTLLEKEQQEAIEHIDEVQNEIDRLNEQASEEILKVEQKYNKLRQPFQKRSELI AKIP  
 NFWVTTFNHPQVSALLGEEDEEALHYL TRVEVTEFEDIKSGYRIDFYFDENPYFENKVL SKEFHLNESG  
 DPSSKSTEIKWKS GKDLTKRSSQTQNKASRK RQH EEPESFFTFWTDHSDAGADELGEVIKDDIWP NPLQY  
 YLVPDMDEEGEGEEDDDDDDEEEGLEIDEEGDEDEGEEDDDDEGEEGEEDGEDD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001248000

**ORF Size:** 804 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\\_001248000.2](#)

**RefSeq Size:** 2638 bp

**RefSeq ORF:** 807 bp

**Locus ID:** 6418

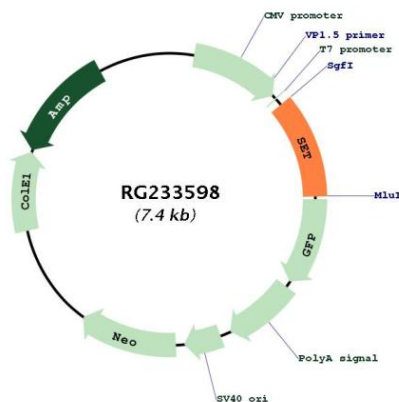
**UniProt ID:** [Q01105](#)

**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 RG233598