

Product datasheet for **RG225400**

SET (NM_001122821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SET (NM_001122821) 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:	>RG225400 representing NM_001122821 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCCTAAACGCCAGTCTCCACTCCCGCTCAAAGAAGAAACCAAGACCCTCTGCTCTGGGAC
CGGAGGAGACATCGCCCTCTGCAGGCTTGCCGAAGAAGGGAGAAAAGAACAGCAAGAAGCGATTGAACA
CATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAGTGAGGAGATTTGAAAGTAGAA
CAGAAATATACAAACCTCCGCCAACATTTTTTCAGAAGAGGTCAGAATTGATCGCCAAAATCCCAAATT
TTTGGGTAAACAATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAAGATGAAGAGGCACT
GCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAATCAGGTTACAGAATAGATTTTTAT
TTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTCTCTGAATGAGAGTGGTGATC
CATCTTGAAGTCCACCGAAATCAAATGGAAATCTGGAAGGATTTGACGAAACGTTTCGAGTCAAACGCA
GAATAAAGCCAGCAGGAAGAGGCAGCATGAGGAACAGAGAGCTCTTTACCTGGTTTACTGACCATTCT
GATGCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACT
TGGTCCCAGATATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGAAGAGGAGGAAGG
ATTAGAAGATTTGACGAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGGGGAG
GAAGGAGAGGAGGATGAAGGAGAAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225400 representing NM_001122821
Red=Cloning site Green=Tags(s)

MAPKRQSP LPPQKKKPRPPALGPEETSASAGLPKKGEKEQQEAIEHIDEVQNEIDRLNEQASEEILKVE
 QKYNKLRQPFQKRSELIAKIPNFVWTFVNHQPVSALLGEEDEEALHYLTRVEVTEFEDIKSGYRIDFY
 FDENPYFENKVLSEFHLNESGDPSSKSTEIKWKS GKDLTKRSSQTQNKASRKQHEEPESFFTFWTDHS
 DAGADELGEVIKDDIWPNPLQYYLVPMDDDEEGEGEEDDDDDDEEEEGLEDIDEEGDEDEGEEDDDDEGE
 EGEEDEGEDD

TRTRPLE - GFP Tag - V

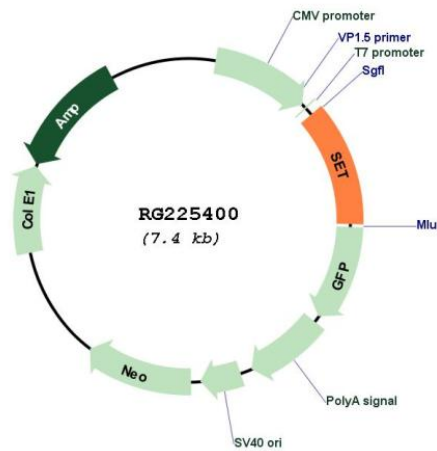
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001122821

ORF Size: 870 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	NM_001122821.2
RefSeq Size:	2863 bp
RefSeq ORF:	873 bp
Locus ID:	6418
UniProt ID:	Q01105
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Gene Summary:	<p>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]</p>