

## Product datasheet for **RC225400**

### SET (NM\_001122821) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SET (NM_001122821) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SET
Synonyms:	2PP2A; I2PP2A; IGAAD; IPP2A2; MRD58; PHAPII; TAF-I; TAF-IBETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225400 representing NM_001122821 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCCCTAAACGCAGTCTCCACTCCCGCCTCAAAGAAGAAACCAAGACCCTCCTGCTCTGGGAC  
CGGAGGAGACATCGGCCTCTGCAGGCTTGCCGAAGAAGGGAGAAAAGAACAGCAAGAAGCGATTGAACA  
CATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCCAGTGAGGAGATTTGAAAGTAGAA  
CAGAAATATACAAACCTCCGCCAACATTTTTTCAGAAGAGGTCAGAATTGATCGCCAAAATCCCAAATT  
TTTGGGTAAACAATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGAGGAAGATGAAGAGGCACT  
GCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAATCAGGTTACAGAATAGATTTTAT  
TTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTCTGTAATGAGAGTGGTGATC  
CATCTTCGAAGTCCACCGAAATCAAATGGAAATCTGGAAGGATTTGACGAAACGTTTCGAGTCAAACGCA  
GAATAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTCTTTACCTGGTTTACTGACCATTCT  
GATGCAGGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACT  
TGGTCCCAGATATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGAAGAGGAGGAAGG  
ATTAGAAGATTTGACGAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGGGGAG  
GAAGGAGAGGAGGATGAAGGAGAAGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC225400 representing NM\_001122821  
Red=Cloning site Green=Tags(s)

MAPKRQSPLPPQKKKPRPPPALGPEETSASAGLPKKGEKEQQEAIEHIDEVQNEIDRLNEQASEEILKVE  
 QKYNKLRQPFQKRSELIAKIPNFVWTTFVNHPQVSALLGEEDEEALHYLTRVEVTEFEDIKSGYRIDFY  
 FDENPYFENKVLKSEFHLNESGDPSSKSTEIKWKSGBKDLTKRSSQTQNKASRKQHEEPESFFTWF TDHS  
 DAGADELGEVIKDDIWPNPLQYYLVPDMDEEGEGEEDDDDDDEEEGLEIDIEEGDEDEGEEDDDDEGE  
 EGEEDEGEDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3317\\_b04.zip](https://cdn.origene.com/chromatograms/ja3317_b04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001122821

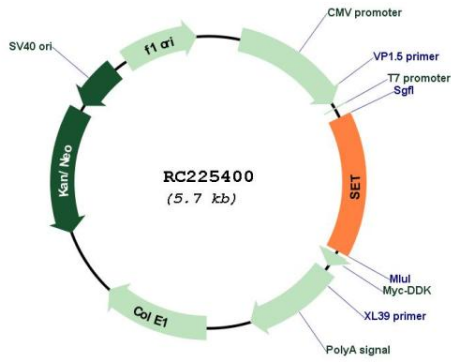
**ORF Size:** 870 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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_001122821.2</a>
<b>RefSeq Size:</b>	2863 bp
<b>RefSeq ORF:</b>	873 bp
<b>Locus ID:</b>	6418
<b>UniProt ID:</b>	<a href="#">Q01105</a>
<b>Cytogenetics:</b>	9q34.11
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Stem cell - Pluripotency
<b>MW:</b>	33.5 kDa
<b>Gene Summary:</b>	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 RC225400