

Product datasheet for RC205607

SAP18 (NM_005870) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SAP18 (NM_005870) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SAP18
Synonyms: 2HOR0202; SAP18P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205607 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGAGTCGCGGTTACCCAGGAGGAAATTAAGAAGGAGCCAGAGAAACCGATCGACCGGAGA
AGACATGCCCACTGTTGCTACGGGTCTTCACCACCAATAACGGCCGCCACCACCGAATGGACGAGTTCTC
CCGGGAAATGTACCGTCCAGCGAGTTGCAGATCTACACTTGGATGGATGCAACTTTGAAAGAAGTACA
AGCTTAGTAAAAGAAGTCTACCCAGAAGCTAGAAAGAAGGGCACTCACTTCAATTTGCAATCGTTTTTA
CAGATGTTAAAAGACCTGGCTATCGAGTTAAGGAAATTGGCAGCACCATGTCTGGCAGAAAGGGGACTGA
TGATTCCATGACCCTGCAGTCGAGAAGTTCAGATAGGAGATTACTTGGACATAGCAATTACCCCTCCA
AATCGGGCACCACCTACTTCAGGGCGCATGAGACCATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205607 protein sequence
Red=Cloning site Green=Tags(s)

MAVESRVTQEEIKKEPEKPIDREKTCPLLLRVFTTNNGRHHRMDEF SRGNVPSELQIYTWMDATLKELT
SLVKEVYPEARKKGFHFNFAIVFTDVKRPGYRVKEIGSTMSGRKGTDDSMTLQSQKFQIGDYLDIAITPP
NRAPPTSGRMPY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6312_a06.zip



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005870

ORF Size: 459 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005870.4](#), [NP_005861.2](#)

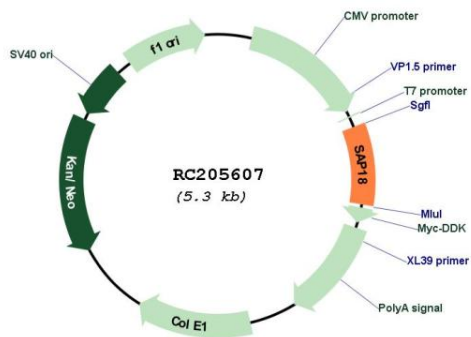
RefSeq Size: 2318 bp

RefSeq ORF: 519 bp

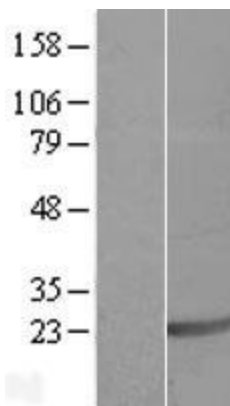
Locus ID: 10284
UniProt ID: [O00422](#)
Cytogenetics: 13q12.11
Protein Families: Druggable Genome, Transcription Factors
MW: 17.6 kDa
Gene Summary:

Histone acetylation plays a key role in the regulation of eukaryotic gene expression. Histone acetylation and deacetylation are catalyzed by multisubunit complexes. The protein encoded by this gene is a component of the histone deacetylase complex, which includes SIN3, SAP30, HDAC1, HDAC2, RbAp46, RbAp48, and other polypeptides. This protein directly interacts with SIN3 and enhances SIN3-mediated transcriptional repression when tethered to the promoter. A pseudogene has been identified on chromosome 2. [provided by RefSeq, Dec 2008]

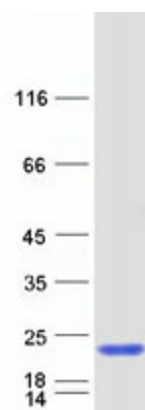
Product images:



Circular map for RC205607



Western blot validation of overexpression lysate (Cat# [LY417012]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205607 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SAP18 protein (Cat# [TP305607]). The protein was produced from HEK293T cells transfected with SAP18 cDNA clone (Cat# RC205607) using MegaTran 2.0 (Cat# [TT210002]).