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Product datasheet for RC202428

SUV39H1 (NM_003173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUV39H1 (NM_003173) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SUV39H1
Synonyms:	H3-K9-HMTase 1; KMT1A; MG44; SUV39H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC202428 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAAAATTTAAAAGGCTGCAGCGTGTGTTGCAAGTCTTCTTGGAATCAGCTGCAGGACCTGTGCC
GCCTGGCCAAGCTCTCCTGCCCTGCCCTCGGTATCTCTAAGAGGAACCTCTATGACTTTGAAGTCGAGTA
CCTGTGCGATTACAAGAAGATCCGCGAACAGGAATATTACCTGGTGAAATGGCGTGGATATCCAGACTCA
GAGAGCACCTGGGAGCCACGGCAGAATCTCAAGTGTGTGCGTATCCTCAAGCAGTTCCACAAGGACTTAG
AAAGGGAGCTGCTCCGGCGGCACCACCGGTCAAAGACCCCCCGGCACCTGGACCCAAGCTTGGCCAACTA
CCTGGTGCAGAAGGCCAAGCAGAGGCGGGCGCTCCGTCGCTGGGAGCAGGAGCTCAATGCCAAGCGCAGC
CATCTGGGACGCATCACTGTAGAGAATGAGGTGGACCTGGACGGCCCTCCGCGGGCCTTCGTGTACATCA
ATGAGTACCGTGTTGGTGAGGGCATCACCCTCAACCAGGTGGCTGTGGGCTGCGAGTGCCAGGACTGTCT
GTGGGCACCCACTGGAGGCTGCTGCCCGGGGGCGTCACTGCACAAGTTTGCCTACAATGACCAGGGCCAG
GTGCGGCTTCGAGCCGGGCTGCCCATCTACGAGTGCAACTCCCGCTGCCGCTGCGGCTATGACTGCCCAA
ATCGTGTGGTACAGAAGGGTATCCGATATGACCTCTGCATCTTCCGCACGGATGATGGGCGTGGCTGGGG
CGTCCGCACCCTGGAGAAGATTCGCAAGAACAGCTTCGTCATGGAGTACGTGGGAGAGATCATTACCTCA
GAGGAGGCAGAGCGGCGGGGCCAGATCTACGACCGTCAGGGCGCCACCTACCTCTTTGACCTGGACTACG
TGGAGGACGTGTACACCGTGGATGCCGCCTACTATGGCAACATCTCCCACTTTGTCAACCACAGTTGTGA
CCCCAACCTGCAGGTGTACAACGTCTTCATAGACAACCTTGACGAGCGGCTGCCCCGCATCGCTTTCTTT
GCCACAAGAACCATCCGGGCAGGCGAGGAGCTCACCTTTGATTACAACATGCAAGTGGACCCCGTGGACA
TGGAGAGCACCCGCATGGACTCCAACTTTGGCCTGGCTGGGCTCCCTGGCTCCCCTAAGAAGCGGGTCCG
TATTGAATGCAAGTGTGGGACTGAGTCCTGCCGCAAATACCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC202428 protein sequence
Red=Cloning site Green=Tags(s)

MAENLKGCSVCCKSSWNQLQDLCRLAKLSCPALGISKRNLYDFEVEYLCDYKKIREQEYYLVKWRGYPDS
ESTWEPRQNLKCVRILKQFHKDLERELLRRHHRSKTPRHLDPSLANYLVQKAKQRRALRRWEQELNAKRS
HLGRITVENEVDLDGPPRAFVYINEYRVGEGITLNQVAVGCECQDCLWAPTGGCCPGASLHKFAYNDQGQ
VRLRAGLPIYECNSRCRCGYDCPNRVVQKGIRYDLCIFRTDDGRGWGVRTLEKIRKNSFVMEYVGEIITS
EEAERRGQIYDRQGATYLFDLDYVEDVYTVDAAYYGNISHFVNHSCDPNLQVYNVFIDNLDERLPRIAFF
ATRTIRAGEELTFDYNMQVDPVDMESTRMDSNFGLAGLPGSPKKRVRIECKCGTESCRKYLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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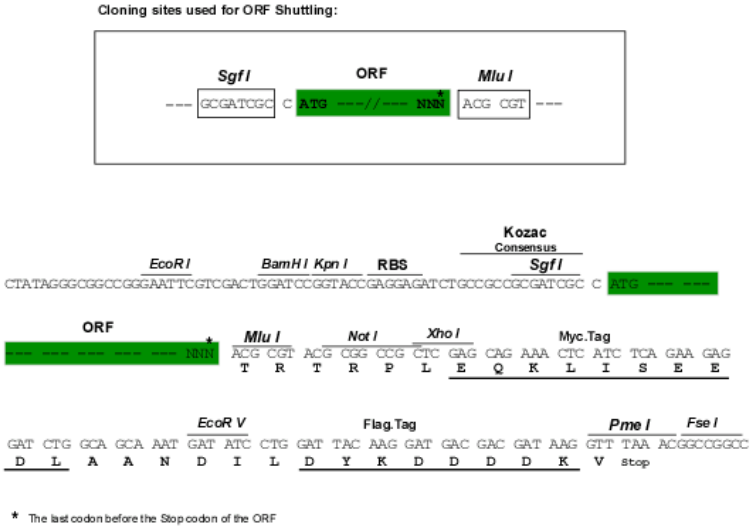
Chromatograms: https://cdn.origene.com/chromatograms/mk6076_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003173

ORF Size: 1236 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 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

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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_003173.4
RefSeq Size:	2752 bp
RefSeq ORF:	1239 bp
Locus ID:	6839
UniProt ID:	O43463
Cytogenetics:	Xp11.23
Domains:	CHROMO, SET, PreSET, PostSET, Pre-SET
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation
MW:	47.9 kDa
Gene Summary:	This gene encodes an evolutionarily-conserved protein containing an N-terminal chromodomain and a C-terminal SET domain. The encoded protein is a histone methyltransferase that trimethylates lysine 9 of histone H3, which results in transcriptional gene silencing. Loss of function of this gene disrupts heterochromatin formation and may cause chromosome instability. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

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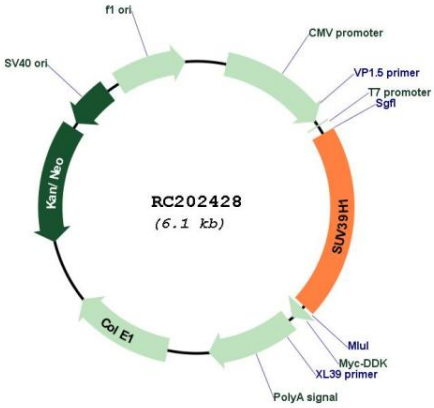
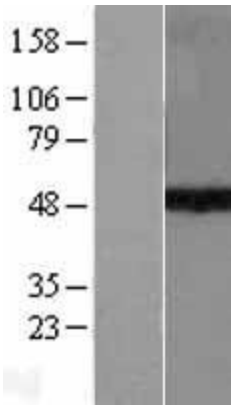
Product images:



Circular map for RC202428



Western blot validation of overexpression lysate (Cat# [LY418862]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202428 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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