

Product datasheet for **RC203032**

SUV39H2 (NM_024670) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUV39H2 (NM_024670) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SUV39H2
Synonyms:	KMT1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203032 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAATATTATCTTGTAAAATGGAAAGGATGGCCAGATTCTACAATACTTGGGAACCTTTGCAAAATC
TGAAGTGGCCGTTACTGCTTCAGCAATTCTAATGACAAGCATAATTTTATCTCAGGTAAAGAAAGG
CAAAGCAATAACTCCAAAAGACAATAACAAAACCTTTGAAACCTGCCATTGCTGAGTACATTGTGAAGAAG
GCTAAACAAAGGATAGCTCTGCAGAGATGGCAAGATGAACTCAACAGAAGAAAGAATCATAAAGGAATGA
TATTTGTTGAAAATACTGTTGATTTAGAGGGCCACCTTCAGACTTCTATTACATTAACGAATACAAACC
AGCTCCTGGAATCAGCTTAGTCAATGAAGCTACCTTTGGTTGTTTCATGCACAGATTGCTTCTTTCAAAA
TGTTGTCCTGCTGAAGCTGGAGTTCTTTGGCTTATAATAAAAACCAACAAATTTAAATCCCACCTGGTA
CTCCCATCTATGAATGCAACTCAAGGTGTGAGTGGTCTGATTGTCCCAATAGGATTGTACAAAAGG
CACACAGTATTCGCTTTGCATCTTTGCAACTAGCAATGGACGTGGCTGGGGTGTAAAGACCTTTGTGAAG
ATAAAAGAATGAGTTTTGTCATGGAATATGTTGGAGAGGTAATCACAAGTGAAGAAGCTGAAAGACGAG
GACAGTTCTATGACAACAAGGGAATCACGTATCTTTGATCTGGACTATGAGTCTGATGAATTCACAGT
GGATGCGGCTCGATACGGCAATGTGTCTCATTTTGTGAATCACAGCTGTGACCAAAATCTTCAGGTGTT
AATGTTTTTCATTGATAACCTCGACTCGTCTTCCCGAATAGCATTGTTTTCCACAAGAACCATAAATG
CTGGAGAAGAGCTGACTTTTGTATTACAAATGAAAGTTCTGGAGATATATCTTCAGATTCTATTGACCA
CAGCCCAGCCAAAAGAGGGTCAGAACAGTATGTAATGTGGAGCTGTGACTTGCAGAGGTTACCTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_024670.3](#), [NP_078946.1](#)

RefSeq Size: 3093 bp

RefSeq ORF: 1053 bp

Locus ID: 79723

UniProt ID: [Q9H5I1](#)

Cytogenetics: 10p13

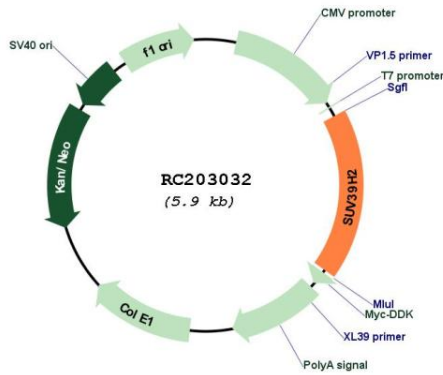
Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

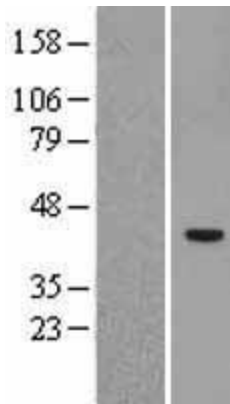
MW: 39.9 kDa

Gene Summary: Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin at pericentric and telomere regions. H3 'Lys-9' trimethylation is also required to direct DNA methylation at pericentric repeats. SUV39H1 is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as cell cycle regulation, transcriptional repression and regulation of telomere length. May participate in regulation of higher-order chromatin organization during spermatogenesis. Recruited by the large PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1, contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC203032



Western blot validation of overexpression lysate (Cat# [LY403014]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203032 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).