

Product datasheet for **MR203330**

Suv39h2 (BC032960) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suv39h2 (BC032960) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Suv39h2
Synonyms:	4930507K23Rik; AA536750; D030054H19Rik; D2Ertd544e; KMT1B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR203330 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCGCCAGGGCCAAGGCACGGGGCAGTGAGGCAGGAGCGCGGTGTACCGGGCTCCAGGTCGC
CCCCGAGGCCAAGGCCAGGCGAACGGCGAGACGCCGCCGCGGAGACCCTGACGGCGCAGCCTCGCG
GCCGTCTGCGGGCGAGAGGCGCGCGGCTCCCAGCGAGCGTGGTCCGGAGCTCCGCGGGCCGCGGTCTTT
GGCGACGAGTGTGCACGAGGTGCCTTATCAAGGCCTGGTGTGTGCCTTGCTAGTTTCACTTGATACT
TCCAGGAATTATGTAGAAAAGAAAAGCTCACATGTAAATCGATTGGAATCACAAAAGGAATCTAAACAA
TTATGAGGTGGAGTACTTGTGTGACTACAAGGTAGCAAAGGTGATCACAAGTGAAGAGGCCGAGAGACGG
GGACAGTTCTATGACAACAAAGGGATCACCTACCTCTTTGACCTGGACTACGAGTCTGATGAGTTCACAG
TGGATGCAGCTCGATATGGAAACGTATCCCATTTTGTGAATCATAGTTGTGACCCAAATCTTCAGGTGTT
TAGTGTTCATCGATAACCTTGATACTCGGCTGCCAGGATAGCATTGTTCTCTACAAGAACCATAAAC
GCTGGAGAAGAGCTGACTTTTGACTATCAAATGAAAGTTCTGGAGAAGCATCTTCAGACTCCATTGACC
ACAGCCCTGCCAAAAAAGGGTCAGAACCCAATGTAATGTGGAGCCGAGACTTGACAGAGTTACCTCAA
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203330 protein sequence
 Red=Cloning site Green=Tags(s)

MAAARAKARGSEAGARCHRAPGPPPPKARRTARRRRAETLTARRSRPSAGERRAGSQRRAWSGAPRAAVF
 GDECARGALFKAWCVPLVSLDTLQELCRKEKLTCKSIGITKRNLNNEYVEYLCDYKVAKVITSEEAEER
 GQFYDNKGITYLFDLDYESDEFTVDAARYGNVSHFVNHSQPNLQVFSVFIDNLDTRLPRIALFSTRTIN
 AGEELTFDYQMKGSGEASSDSIDHSPAkkRVRTQCKCGAETCRGYLN

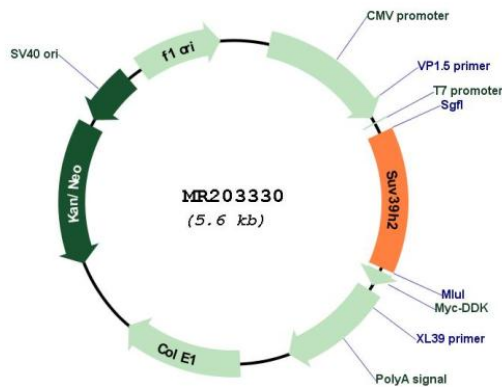
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC032960
 ORF Size: 771 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:	<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:	BC032960 , AAH32960
RefSeq Size:	1856 bp
RefSeq ORF:	773 bp
Locus ID:	64707
Cytogenetics:	2 1.95 cM
MW:	28.7 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]