

Product datasheet for **MC218355**

Suv39h2 (BC032960) Mouse Untagged Clone

Product data:

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

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCCAGGGCCAAGGCACGGGGCAGTGAGGCAGGAGCGCGGTGTCACCGGGCTCCAGGTCGC
CCCCGAGGCCAAGGCCAGGCGAACGGCGAGACGCCGCCGCGGAGACCCTGACGGCGGACGCTCGCG
GCCGTCTCGGGGAGAGGCGCGCGGCTCCAGCGAGCGTGGTCCGGAGCTCCGCGGGCCGCGGTCTTT
GGCAGCAGAGTGTGCACGAGGTGCCTTATCAAGGCCTGGTGTGTGCCTTGCTAGTTTCACTTGATACT
TCCAGGAATTATGTAGAAAAGAAAAGCTCACATGTAATCGATTGGAATCACAAAAGGAATCTAAACAA
TTATGAGGTGGAGTACTTGTGTGACTACAAGGTAGCAAAGGTGATCACAAGTGAAGAGGCCGAGAGACGG
GGACAGTTCTATGACAACAAAGGGATCACCTACCTCTTTGACCTGGACTACGAGTCTGATGAGTTCACAG
TGGATGCAGCTCGATATGGAAACGTATCCCATTTTGTGAATCATAGTTGTGACCCAAATCTTCAGGTGTT
TAGTGTTCATCGATAACCTTGATACTCGGCTGCCAGGATAGCATTGTTCTCTACAAGAACCATAAAC
GCTGGAGAAGAGCTGACTTTTGACTATCAAATGAAAGTTCTGGAGAAGCATCTTCAGACTCCATTGACC
ACAGCCCTGCCAAAAAAGGGTCAGAACCAATGTAATGTGGAGCCGAGACTTGACAGAGTTACCTCAA
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC032960
Insert Size: 774 bp



[View online »](#)

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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
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]