

Product datasheet for **RC238140**

SUV39H1 (NM_001282166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUV39H1 (NM_001282166) 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)



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ORF Nucleotide Sequence:

>RC238140 representing NM_001282166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGGGATGAGTCGCCTGAGAAATGACAGACTGGCTGACCCACTGACAGGCTGCAGCGTGTGTGCA
 AGTCTTCTTGAATCAGCTGCAGGACCTGTGCCGCTGGCCAAGCTCTCCTGCCCTGCCCTCGGTATCTC
 TAAGAGGAACCTCTATGACTTTGAAGTCGAGTACCTGTGCGATTACAAGAAGATCCGCGAACAGGAATAT
 TACCTGGTGAAATGGCGTGGATATCCAGACTCAGAGAGCACCTGGGAGCCACGGCAGAATCTCAAGTGTG
 TCGGTATCCTCAAGCAGTCCACAAGGACTTAGAAAGGGAGCTGCTCCGGCGCACACCACCGTCAAAGAC
 CCCCCGGCACCTGGACCAAGCTTGCCAACTACCTGGTGCAGAAGGCCAAGCAGAGGGCGGCGCTCCGT
 CGCTGGGAGCAGGAGCTCAATGCCAAGCGCAGCCATCTGGGACGCATCACTGTAGAGAATGAGGTGGACC
 TGGACGGCCCTCCGGGGCTTCGTGTACATCAATGAGTACCGTGTGGTGGAGGGATCACCTCAACCA
 GGTGGCTGTGGGCTGCGAGTGCCAGGACTGTCTGTGGCACCCACTGGAGGCTGTGCCCGGGGGCGTCA
 CTGCACAAGTTTGCCTACAATGACCAGGGCCAGGTGCGGCTTCGAGCCGGGCTGCCCATCTACGAGTGCA
 ACTCCCGTGCCTGCGGCTATGACTGCCAAATCGTGTGGTACAGAAGGGTATCCGATATGACCTCTG
 CATCTTCCGCACGGATGATGGGCGTGGCTGGGGCGTCCGCACCCTGGAGAAGATTCGAAGAACAGCTTC
 GTCATGGAGTACGTGGGAGAGATCATTACCTCAGAGGAGGAGAGCGGGGGCCAGATCTACGACCGTC
 AGGGCGCCACCTACCTCTTTGACCTGGACTACGTGGAGGACGTGTACACCGTGGATGCCCGCTACTATGG
 CAACATCTCCACTTTGTCAACCACAGTTGTGACCCCACTGCAGGTGTACAACGTCTTCATAGACAAC
 CTTGACGAGCGGCTGCCCGCATCGCTTTCTTTGCCACAAGAACCATCCGGGCAGGCGAGGAGCTCACCT
 TTGATTACAACATGCAAGTGGACCCGTGGACATGGAGAGCACCCGCATGGACTCCAACCTTTGGCCTGGC
 TGGGCTCCCTGGCTCCCTAAGAAGCGGGTCCGTATTGAATGCAAGTGTGGGACTGAGTCCCTGCCGAAA
 TACCTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238140 representing NM_001282166
 Red=Cloning site Green=Tags(s)

MVGM SRLRNDRLADPLTGCSVCKSSWNQLQDLRCLAKLSCPALGISKRNLDFEVEYLCDYKKIREQEY
 YLVKWRGYPDSESTWEPRQNLKCVRIKQFHKDLERELLRRHRSKTPRHLDPSLANYL VQKAKQRRALR
 RWEQELNAKRSHLGRITVENEVDLDGPPRAFVYINEYRVGEGITLNQVAVGCECQDCLWAPTGGCCPGAS
 LHKFAYNDQGQVRLRAGLPIYECNSRRCGYDCPNRVVQKGI RYDLCIFRTDDGRGWGVRTLEKIRKNSF
 VMEYVGEIITSEEAERRGQIYDRQGATYLFDLDYVEDVYTVDAAYYGNISHFVNHSCDPNLQVYNVFDN
 LDERLPRIAFFATRIRAGEELTFDYNMQVDPVDMESTRMDSNFGLAGLPGSPKKRVRIECKCGTESCRK
 YLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3158_e11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282166

ORF Size: 1269 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

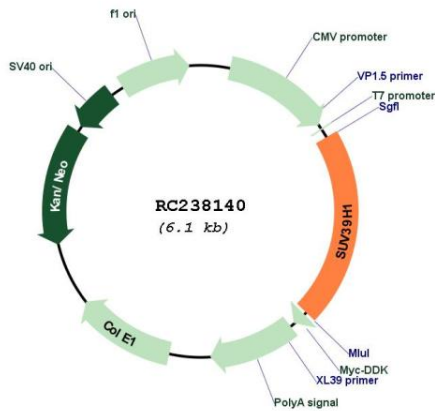
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001282166.1](#), [NP_001269095.1](#)

RefSeq Size:	2999 bp
RefSeq ORF:	1272 bp
Locus ID:	6839
UniProt ID:	O43463
Cytogenetics:	Xp11.23
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation
MW:	49.1 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]

Product images:



Circular map for RC238140