

Product datasheet for **SC125822**

KMT5C (NM_032701) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KMT5C (NM_032701) Human Untagged Clone
Tag:	Tag Free
Symbol:	KMT5C
Synonyms:	Suv4-20h2; SUV420H2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_032701 edited
GGAGGCTGTGGGAGGTGTTGGCGGCGGGCGCGGGCGCCTGAGGAGGAGGAGGAGAAGC
GGATGAGATCGTGGGGCTCACCAGCGTCCCCATGGCTTCTGAGTAGCGTGGGAGTGGAG
TCAGACCAAGCCAGGCTCCCCGCGCTGCCTTGCCCTCACCTGCTCCTGCTCTCTGCCA
GAGGCAGCATGGTCCGCAGGGCACCATGGGGCCGACAGAGTGACAGCACGAGAACTGTG
CGAGAACGACGACCTGGCCACCAGCCTCGTCTGGACCCCTACCTCGGTTTCCGCACCCA
TAAGATGAACGTAGCCCTGTGCCCCCTGCGGGCAGCAGCACCTGCGCTCAGCGCT
GGAACCTTCTGAGGCAGCGGGACCTGGAGGCTGCGTACCGGGCCCTGACGCTGGGAGG
CTGGACGGCCCGCTACTTCCAGAGCCGGGGCCCGCGCAGGAGGCTGCCCTCAAGACCCA
CGTCTATCGTACCTCCGTGCCTTCTGCCGAAAGTGGCTTTACCATCCTGCCCTGCAC
GCGCTACTCCATGGAGACCAACGGGGCCAAAGATCGTGTCCACTCGTGTTGAAAAAGAA
TGAGAAGCTGGAGCTGCTGGTGGGCTGCATTGCAGAGCTGCGGGAGGCAGATGAGGGGCT
GCTGAGGGCCGGTGAGAATGACTTACGATCATGTACTCAACCCGAAGCGGAGTGCTCA
GCTGTGGCTGGGCCAGCCGCTTCAACCATGACTGCAAACCAACTGCAAGTTTGT
GCCTGCAGATGGGAACGCAGCCTGCGTGAAGGTGCTCCGGGACATTGAGCCTGGGGACGA
GGTGACATGCTTCTACGGCGAGGCTTCTTCGGCGAGAAGAATGAGCACTGTGAATGCCA
CACCTGTGAGAGGAAAGGTGAAGGAGCTTTCGAACAGGCTTAGGGAGCCCGCCTTGCC
ACCACGGCCCCTGGACAAGTACCAGCTGCGTGAGACCAAGCGGGCGGCTGCAGCAAGGCT
GGACAGTGGCAGCCGACAGGGCCTGCTGGGGCCCTCGGGCCTGCGTGCACCCATCCCCGCT
GCGCCGGGACCCATTCTGCGCCGCTGCCAGCCCTGCGCTGCCAGCCTGCAGCGCCCG
CCCAGACACCTCACCCCTCTGGCTCCAGTGGTGCCTCAGCCCCAGCCCCGAGTGGGGC
CCGGAAGCGCCGACGCCCCGGCCCCGGAGGGCCCCAGTGCTCTCACCCACCACGCTGC
CCGCGTCTCCCTGCACCGATGGGGAGGCTGTGGCCCCACTGCCGCTGCGAGGAGAGGC
CCTGGTGGCCCTGGGCCAGCCCCCACGCCCGCTGGGCCCTCAGCAGGACTGGCACTG
GGCCCCGGCCTATGGGCTGCCTTACGTGGTGCCTGGACCTTCGTGCGCTGGCCCCAGC
CCCACCAGCTACCCAGCCCTGCTGGGACCCAGGCCCATCCTGATCCCGAAGCAGGC
CCTCGCTTCGCCCTTCTCCCCACCAAGCGCTACGGCTGGTGGTACGCCACGGCTC
CATCGACCTGGATGTGGCGGTGAAGAGCTGTGACAGGCCGGACGGGGAGGCCACGAGG
GAGAGAGGGTCTCTCCTAGCTGCTACCCAGGACCTCCAGAAGGAGCCCTTGGACCTCT
GGGAGGGAGCTGACCCTTACTCCAGCATAGCTCTGACCCTGGAATGGGGTTGGTTTGA
CACCCCCAGGGATCTGAGCCCTGACCCTTGTGACTGCTGACCCTGAGCCACCCCACT
CCCACAGGGAGCCCCGGCATTGCTGCCCTCCCCACCCCTGCCCAGCCTCAGGACTGC
AGGAGCCATCCGCCCCCTCAGCCCTTCTCCCCAGGGAGCAAAGCCATAAGGGGACGG
GGCCACCCACGGCATCTCCCCAGAAGTACAGGCTCAGGAGGAGGTGGAAGTATGATGAG
GGGGTGGCACTCCCAGAGACTGCCCTCACGAGGGGACTGGGTTGCTCTCAGCTCTGCA
GCTGTCTGCGGTGGGGGAAGGTTGGGGGTGTCTGGAGGCATGTTCCCTCACCACCC
CCGTGGTCTCAGGGAGGCCGGTGTGACCTCATCTTTCTCATGGTGCTATCCTGGTGCT
ATTGGGTGGGGAGTCCCTCCCTCCCCACACCAGAAAGGGTATGTTGGGGATTGG
AAGCACTTGAACTTTTTATTTTATAAAACCTTGTATAAGCAGCAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032701 unedited NGGGGTCTTGATTTGTATACCACTTACTTAGGCGGCCGCGATTCTGGTACCGGTC CGGAATCCCAGGATATCGTTCGACCGCAGCGTGCGCCACGCGTCCGGGAGGCTGTGGGA GGTGTTGGCGGCGGCGCGGGCGCCTGAGGAGGAGGAGAGAAGCGGATGAGATCGTG GGGCTCACCAGCGTCCCCATGGCTTCTGAGTAGCGTGGGAGTGGAGTCAACACCAAGCC AGGGGGGGCGCCTGCCTTGCCTCACCTGCTCCTGCTCTGCCAGAGGCAGCATGGT CCGCAGGGCACCATGGGGCCCCGACAGAGTGACAGCAGCAGAACTGTGCGAGAACGACGAC CTGGCCACCAGCCTCGTCTGGACCCCTACCTCGGTTTCCGCACCCATAAGATGAACGTC AGCCCTGTGCCCCCCTGCGGCGACAGCAGCACCTGCGCTCAGCGCTGGAACCTTTCCTG AGGCAGCGGGACCTGGAGGCTGCGTACCGGGCCCTGACGCTGGGAGGCTGGACGGCCCGC TACTTCCAGAGCCGGGGCCCGCGCAGGAGGCTGCCCTCAAGACCCACGTCTATCGCTAC CTCCGTGCCTTCTGCCGAGAGTGGCTTACCATCCTGCCCTGCACGCGCTACTCCATG GAGACCAACGGGGCCAGATCGTGTCCACTCGTCTGGAAAAAATGAGAAGCTGGAGC TGCTGGTGGGCTGCATTGCANAGCTCCGGGAGGCANATGAGGGGCTGCTGAGGGCCCGTG AGAATGACTTCAGCATCATGTACTCAACCCGACGGAGTGCTCANCTGTGGCTGGGCC AGCCGCTTCTCAACCATGACTGCAACCAACTGCAAGTTGGGCC
Restriction Sites:	NotI-NotI
ACCN:	NM_032701
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:	NM_032701.2 , NP_116090.2
RefSeq Size:	2297 bp
RefSeq ORF:	1389 bp
Locus ID:	84787
UniProt ID:	Q86Y97
Cytogenetics:	19q13.42
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation

Gene Summary:

SUV420H2 and the related enzyme SUV420H1 (MIM 610881) function as histone methyltransferases that specifically trimethylate nucleosomal histone H4 (see MIM 602822) on lysine-20 (K20) (Schotta et al., 2004 [PubMed 15145825]).[supplied by OMIM, Dec 2009]